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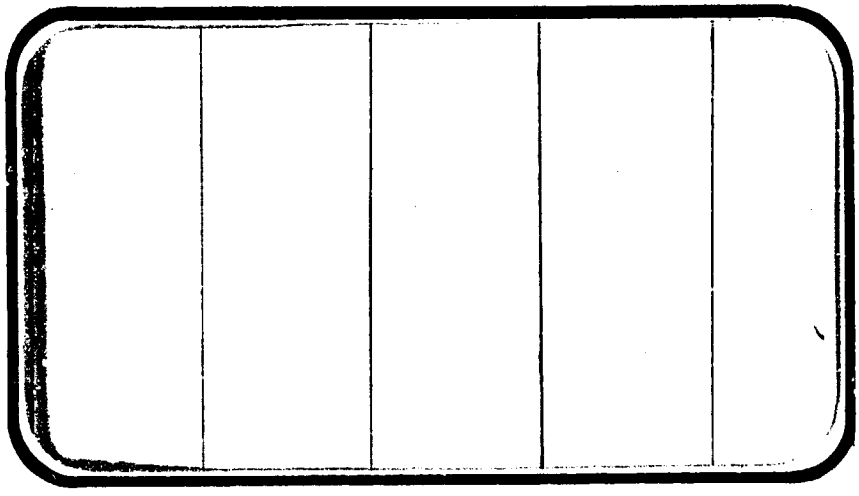

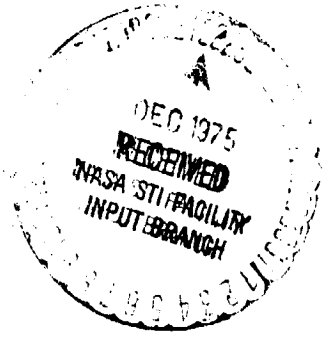

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER CORPORATION

October, 1975

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RESULTS OF A PRESSURE LOADS INVESTIGATION ON A 0.030-SCALE MODEL (47-OTS) OF THE INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE NASA AMES RESEARCH CENTER 9 x 7 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL (IA81B)

VOLUME 5 OF 5

by

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Prepared under NASA Contract Number NAS9-13247

by

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for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:	ARC 97-019
NASA Series Number:	IA81B
Model Number:	47-0TS
Test Dates:	August 6-22, 1974
Occupancy Hours:	208

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by

E. Chee, Rockwell International Space Division

ABSTRACT

Presented in this report are results of wind tunnel test IA81B. The model tested was a 0.030-scale model of the Integrated Space Shuttle Vehicle Configuration 5. Testing was conducted in the NASA Ames Research Center 9 x 7-foot Unitary Plan Wind Tunnel to investigate pressure distributions for aeroloads analysis at Mach numbers from 1.55 through 2.5. Angles of attack and sideslip were varied from -6 to +6 degrees.

This report consists of 1 volume of force data and 4 volumes of pressure data for a total of 5 volumes. They are arranged in the following manner:

Volume No.	Contents	
1	IA81B force data	
2	IA81B plotted pressure data	
3	IA81B tabulated pressure data	
	(a) orbiter fuselage	pages 1-299
	(b) left lower wing surface	pages 300-728

ABSTRACT (Concluded)

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	(c) right upper wing surface	pages 1300-1459
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B) CY, CYNF, CBL versus BETAI
CY versus CYNF
CY versus CBL

C) CHEO, CHEI versus ALPHAO

D) CABO versus ALPHAO

E) CABET versus ALPHAT

F) CABSRB versus ALPHAL

G) CABSRB versus ALPHAR

H) CAFAFO versus MACH

I) XAC/LV versus MACH

J) CNALFA versus MACH

K) YAC/LV versus MACH

L) CYBETA versus MACH

M) CHEO, CHEI versus MACH

N) DCAF, DCNF, DCLMF versus MACH

O) CP versus X/LB

P) CP versus X/LT

Q) CP versus X/LS

R) CP versus X/CV

S) CP versus X/CW

NOMENCLATURE
General

SYMBOL	PLOT SYMBOL	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$
		Reference & C.G. Definitions
Ab		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} or $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	PLOT SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qSl_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qSl_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
L/D	L/D	lift-to-drag ratio; C_L/C_D

NOMENCLATURE (Continued)
Additions to Standard Nomenclature

Symbol	Plot Symbol	Defintion
$A_{b_{ET}}$		external tank base area, ft^2
A_{bf}		body flap upper surface area, ft^2
A_{b_o}		Orbiter base area, ft^2
$A_{b_{OMS}}$		OMS pod base area, ft^2
$A_{b_{SRB}}$		SRB base area, ft^2
$C_{A_{b_{ET}}}$	CABET	external tank base axial force coefficient
$C_{A_{b_o}}$	CABO	Orbiter base axial force coefficient
$C_{A_{b_{SRB}}}$	CABSRB	SRB base axial force coefficient
$C_{A_{ET}}$		external tank total axial force coefficient
$C_{A_{f_{ET}}}$		external tank forebody axial force coefficient
$C_{A_{f_o}}$		Orbiter forebody axial force coefficient
$C_{A_{f_{SRB}}}$		SRB forebody axial force coefficient
C_{A_o}		Orbiter total axial force coefficient

NOMENCLATURE (Continued)

Symbol	Plot Symbol	Definition
$C_{P_{b_o}}$		Orbiter average base pressure coefficient
X_S	XS	SRB longitudinal station, in.
X_S/ℓ_S	X/LS	location on SRB, fraction of SRB body length aft of SRB nose
X_T	XT	external tank longitudinal station, in.
X_T/ℓ_T	X/LT	location on ET, fraction of ET body length aft of ET nose
Y_o	YO	Orbiter lateral station, in.
Y_S	YS	SRB lateral station, in.
Y_T	YT	external tank lateral station, in.
Z_{b_o}		vertical distance from MRP to Orbiter base area centroid, in.
Z_o	ZO	Orbiter vertical station, in.
Z_s	ZS	SRB vertical station, in
Z_T	ZT	external tank vertical station, in.
α_o	ALPHAO	Orbiter angle of attack, degrees
α_{S_L}	ALPHAL	left SRB angle of attack, degrees
α_{S_R}	ALPHAR	right SRB angle of attack, degrees
α_T	ALPHAT	external tank angle of attack, degrees
β_o	BETAO	Orbiter angle of sideslip, degrees

NOMENCLATURE (Continued)

Symbol	Plot Symbol	Definition
β_{B_L}	BETAL	left SRB angle of sideslip, degrees
β_{S_R}	BETAR	right SRB angle of sideslip, degrees
β_T	BETAT	external tank angle of sideslip, degrees
δ_{e_i}	ELV-IB	inboard elevon deflection angle, degrees
δ_{e_o}	ELV-OB	outboard elevon deflection angle, degrees
δ_R	RUDDER	rudder deflection angle, degrees
δ_{SB}	SPDBRK	speedbrake deflection angle, degrees
η	2Y/b	spanwise station, 2Y/b
ϕ	PHI	radial location, degrees
C_{A_c}		orbiter sting cavity axial force coefficient
β_I	BETAI	integrated vehicle angle of sideslip, degrees
α_I	ALPHAI	integrated vehicle angle of attack, degrees
X/LB	X/LB	longitudinal position/body length (fuselage)
Y/BW	Y/BW	local spanwise position/wing span
Z/BV	Z/BV	local spanwise position/vertical tail span

NOMENCLATURE (Continued)

Symbol	Plot Symbol	Definition
C_{n_f}	CYNF	forebody yawing moment coefficient, body axis system
C_{m_f}	CLMF	forebody pitching moment coefficient
C_{N_f}	CNF	forebody normal force coefficient
$C_{A_{f_o}}$	CAFAFO	forebody axial force coefficient at zero alpha
C_{N_α}	CNALFA	derivative of normal-force coefficient with respect to alpha, per degree
X_{cp}/ℓ_v	XAC/LV	vertical tail chordwise center of pressure location
Y_{cp}/ℓ_v	YAC/LV	vertical tail spanwise center of pressure location
C_{Y_β}	CYBETA	derivative of side-force coefficient with respect to beta, per degree
ΔC_{A_f}	DCAF	incremental forebody axial force coefficient
ΔC_{N_f}	DCNF	incremental forebody normal force coefficient
ΔC_{m_f}	DCLMF	incremental forebody pitching moment coefficient
CHM1	CHM1	contributions of the forward bridge to the inboard elevon hinge moment coefficient
CHM2	CHM2	contributions of the aft bridge to the inboard elevon hinge moment coefficient
CHM3	CHM3	contributions of the forward bridge to the outboard elevon hinge moment coefficient
CHM4	CHM4	contributions of the aft bridge to the outboard elevon hinge moment coefficient

NOMENCLATURE (Concluded)

Data Set Identifiers

The fourth letter of the data set identifier indicates the component, e.g., RETT04.

Force

0	Orbiter
T	External Tank
L	Left SRB
R	Right SRB
H	Orbiter - Hinge moment
I	Integrated Vehicle

Pressure

B	Orbiter Fuselage
L	Left Wing lower surface
U	Left Wing upper surface
W	Right Wing lower surface
R	Right Wing upper surface
V	Left Vertical Tail
S	SRM Booster
T	External Tank
C	Miscellaneous Orifices

CONFIGURATIONS INVESTIGATED

The model was a 0.030-scale representation of the Rockwell International Space Shuttle Integrated Vehicle. The Orbiter was per VL70-000140A/B lines. The external tank represented VL78-000063 lines. The solid rocket motors were per VL72-000066 lines. Figures 2a, b, and c present sketches of the model configuration. Model simulation included attach structure protuberances, fairings, fuel feed lines, vent lines, etc. (basic model construction was of ARMCO 17-4 steel).

Model forces and moments were measured by 3 Task Corporation six component balances. A 2.5 in. MK XXA was mounted in the Orbiter. A 2.0 in. MK IIIC was mounted in the external tank. A 1.5 in. MK IIC was mounted in the LH SRB. The balances are attached to stings entering each component through the base areas. Figures 2m and 2n show the balance locations in the model. The RH wing inboard and outboard elevon panels are instrumented with hinge moment gages as shown in figure 1c.

Surface and base pressures were measured on the Orbiter, external tank and solid rocket motors. The Orbiter was instrumented with a total of 480 pressure-orifices, of which 6 were base and cavity pressures. The external tank was instrumented with a total of 314 pressure orifices. The LH SRM was instrumented with a total of 149 pressure orifices. Orifice locations are presented in tables IV through VIII and figures 2d through 2 l.

The following model shorthand configuration notation was used:

$LVA' = AT_{28}$ thru $32\ FL_{10}\ FL_{11}\ FR_{10}\ N_{86}\ O_1\ PT_{12}\ PT_{22\text{-}27}\ S_{21}\ T_{28}$

CONFIGURATIONS INVESTIGATED (Concluded)

$AT_{28 \text{ thru } 32}$ = Attach hardware structure

FL_{10} = LH_2 feedline

FL_{11} = LO_2 feedline

FR_{10} = Umbilical door fairing

N_{86} = Nozzles for solid rocket boosters

O_1 = $B_{26}\ C_9\ E_{44}\ F_9\ M_{16}\ N_{28}\ R_5\ V_8\ W_{116}$

PT_{12} = Lightning rod on nose of T_{28}

$PT_{22 \text{ thru } 27}$ = External protuberance

S_{21} = Solid rocket boosters

T_{28} = External tank

Where model dimensions are as described in table III. The LVA' configuration was tested with speed brake gap both sealed and open and with elevon gap both sealed and open. The (instrumented) right elevon gap was sealed by a permanent sponge rubber seal. The left elevon gap was sealed with plaster. Speed brake gaps were sealed by red wax.

TEST FACILITY DESCRIPTION

The Ames Research Center 9 by 7 foot Supersonic Wind Tunnel is a closed-circuit, air-medium, variable-density facility capable of attaining Mach numbers from 1.55 to 2.50 at Reynolds numbers from 1.5×10^6/ft to 6.5×10^6/ft. The 18 foot long test section is part of a dual system of supersonic circuits and uses the same motors and compressor as the 8 by 7 foot tunnel. A sliding-block throat arrangement is used to control tunnel Mach number.

Models are supported by means of stings attached to the wall-to-wall strut/BCR system of the 9 by 7 foot tunnel.

Schlieren photograph, shadowgraphs, and pressure monitoring instrumentation are available.

DATA REDUCTION

All balances data were reduced to coefficients about a moment reference point located at:

X_T = 976.0 in.

Y_T = 0.0 in.

Z_T = 400.0 in.

The following reference dimensions were used:

S = 2690.0 ft^2

ℓ_b = 1297.0 in.

Hinge moment data were reduced about their respective hinge lines using the following reference values:

S_e = 210.0 ft^2

$\bar{C}_e$ = 90.7 in.

Base and forebody coefficients were calculated as follows:

$$C_{N_{b_o}} = -C_{P_{b_o}} \frac{A_{b_o}}{S} \tan i_{b_o} - C_{P_{b_{OMS}}} \frac{A_{b_{OMS}}}{S}$$

$$C_{N_{bf}} = -C_{P_{bf}} \frac{A_{bf}}{S}$$

$$C_{A_{b_o}} = -C_{P_{b_o}} \frac{A_{b_o}}{S} - C_{P_{b_{OMS}}} \frac{A_{b_{OMS}}}{S}$$

$$C_{A_{b_{ET}}} = -C_{P_{b_{ET}}} \frac{A_{b_{ET}}}{S}$$

DATA REDUCTION (Continued)

$$C_{A_{b_{SRB}}} = -C_{P_{b_{SRB}}} \frac{A_{b_{SRB}}}{S}$$

$$C_{m_{b_o}} = -\frac{X_{b_o}}{\ell_b} C_{N_{b_o}} + \frac{Z_{b_o}}{\ell_b} C_{A_{b_o}}$$

$$C_{m_{bf}} = -\frac{X_{bf}}{\ell_b} C_{N_{bf}}$$

$$C_{N_{f_o}} = C_{N_o} - C_{N_{b_o}} - C_{N_{bf}}$$

$$C_{m_{f_o}} = C_{m_o} - C_{m_{b_o}} - C_{m_{bf}}$$

$$C_{A_{f_o}} = C_{A_o} - C_{Ab_o}$$

$$C_{A_{f_{ET}}} = C_{A_{ET}} - C_{Ab_{ET}}$$

$$C_{A_{f_{SRB}}} = C_{A_{SRB}} - C_{A_{b_{SRB}}}$$

$$A_{b_{ET}} = 597.56 \text{ ft}^2$$

$$A_{bf} = 142.6 \text{ ft}^2$$

$$A_{b_o} = 314.10 \text{ ft}^2$$

$$A_{b_{OMS}} = 122.57 \text{ ft}^2$$

$A_{b_{SRB}} = 201.07 \text{ ft}^2$

$i_{b_o} = 14.75°$

$X_{bf} = 1329.7 \text{ in.}$

$X_{b_o} = 1263.0 \text{ in.}$

$Z_{b_o} = 336.5 \text{ in.}$

Base pressure coefficients represented the average pressure on the respective bases. Body flap pressure coefficients were as given by figure 2o.

Right SRB forces and moments were calculated as a mirror image of left SRB forces and moments about $\beta = 0$:

$$\begin{pmatrix}\text{Coefficient on}\\ \text{Right SRB}\\ \text{at } +\beta\end{pmatrix} = \begin{pmatrix}\text{Coefficient on}\\ \text{Left SRB}\\ \text{at } -\beta\end{pmatrix}$$

Forces and moment on each component (Orbiter, ET, left SRB, and right SRB) were interpolated versus the respective angle of attack and angle of sideslip of each component to nominal angles. These data were then added to provide total integrated vehicle forces and moments.

TABLE II (Continued)

COMPONENT	DATASET IDENTIFIER	INDEPENDENT VARIABLES		FORCE COEFFICIENT SCHEDULE							
Orbiter	RETOXX	BETAO	ALPHAO	CNF	CLMF	CA	CY	CYNF	CBL	*CABT	CAF
External Tank	RETTXX	BETAT	ALPHAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
Left SRB	RETLXX	BETAL	ALPHAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
Hinge Moment	RETHXX	BETAO	ALPHAO	CHEI	CHEO	CHM1	CHM2	CHM3	CHM4		

* Where CABT is $C_{A_b} + C_{A_c}$ for each vehicle component.

TABLE II (Concluded)

Nominal α or β Schedules

Schedule A

β \ α	-6	-4	-2	0	2	4	6
-6	-	x	x	x	x	x	-
-4	x	x	-	x	-	x	x
-2	x	-	x	-	x	-	x
0	x	x	-	x	-	x	x
2	x	-	x	-	x	-	x
4	x	x	-	x	-	x	x
6	-	x	x	x	x	x	-

Schedule H

β \ α	-6	-4	-2	0	2	4	6
-6				x			
-4		x		x		x	
-2				x			
0	x	x	x	x	x	x	x
2				x			
4		x		x		x	
6				x			

Schedule G

β \ α	-6	-4	0	4	6
-6			x		
-4		x	x	x	
0	x	x	x	x	x
4		x	x	x	
6			x		

Schedule D

$\beta = 0$, $\alpha = -6, -4, 0, 4, 8, 10$

Schedule E

$\beta = 0$, $\alpha = -6, -4, -2, 0, 2, 4, 6$

Schedule I

$\beta = 0$, $\alpha = -6, -4, 0, 4, 8$

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT_{30}

GENERAL DESCRIPTION: Forward SRB to ET attach structure (LH and RH).

MODEL SCALE: 0.030

DRAWING NO.: VL78-000066, Martin Marietta 82600204300

DIMENSIONS:		FULL SCALE	MODEL SCALE
Attach point	X_T	985.675	29.570
	Y_T	-172.50 (LH) 172.50 (RH)	- 5.175 5.175
	Z_T	0.0	0.0
	X_S	442.675	13.280
	Y_S	80.00	2.400
	Z_S	0.0	0.0
	X_O	244.675	7.340
	Y_O	- 184.5 (LH) 184.5 (RH)	-5.535 5.535
	Z_O	0.0	0.0

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT_{31}

GENERAL DESCRIPTION: Rear ET to SRB attach structure (LH & RH), 3 members.

MODEL SCALE: 0.030 MODEL DRAWING: _____

DRAWING NO.: VL78-000063, -000062B, -000066

DIMENSIONS: MEMBER		FULL SCALE	MODEL SCALE
#1	X_T	2058.00	61.74
	Y_T	- 171.50 (LH)	- 5.145
		171.50 (RH)	5.145
	Z_T	457.00	13.710
	X_S	1511.00	45.33
	Y_S	53.24	1.597
	Z_S	57.00	1.710
#2	X_T	2058.00	61.74
	Y_T	- 163.58	- 4.916
	Z_T	449.81	13.494
	X_S	1511.00	45.33
	Y_S	76.56	2.297
	Z_S	15.73	0.472
#3	X_T	2058.00	61.74
	Y_T	- 161.72	- 4.852
	Z_T	343.00	10.29
	X_S	1511.00	45.33
	Y_S	53.24	1.597
	Z_S	- 57.00	- 1.710
Diameter of members, In.: #1		_____	_____
#2		_____	_____
#3		_____	_____

TABLE III.- MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT32

GENERAL DESCRIPTION: Forward orbiter/ET attach structure (2 member structure)

MODEL SCALE: 0.030

DRAWING NO.: VL78-000062B, Martin Marietta 8260020914

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE
	#1	X_O	388.15	11.6445
		Y_O	0.0	0.0
	(Attach pt on orb Z_T= 614)	Z_O	LWR ML	LWR ML
		X_T	1129.9	34.05
		Y_T	46.50	1.395
	(Attach pt on tank)	Z_T	562.58	16.877
	#2	X_O	388.15	11.645
		Y_O	0.0	0.0
		Z_O	LWR ML	LWR ML
		X_T	1129.9	34.05
		Y_T	- 46.50	- 1.395
		Z_T	562.58	16.877
Diameter, In.	#1		6.0	0.180
	#2		6.0	0.180

TABLE III.- MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : BODY - B_{26}

GENERAL DESCRIPTION : Configuration 140A/B orbiter fuselage

NOTE: B_{26} is identical to B_{24} except underside of fuselage has been refaired to accept W_{116}.

MODEL SCALE: 0.030 MODEL DRAWING NO.: SS-A00147, Rel. 12.

DRAWING NUMBER : VL70-000143B, -000200, -000205, -006089, -000145, -000140A, -000140B

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta. X_o=235), In.	1293.3	38.799
Length (IML: Fwd Sta. X_o=238), In.	1290.3	38.709
Max Width (@ X_o = 1528.3), In.	264.0	7.920
Max Depth (@ X_o = 1464), In.	250.00	7.500
Fineness Ratio	0.264	0.264
Area - Ft^2		
Max. Cross-Sectional	340.88	0.307
Planform		
Wetted		
Base		

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : CANOPY - C_9

GENERAL DESCRIPTION : Configuration 3A. Canopy used with fuselage B_{26}

MODEL SCALE: 0.030 MODEL DWG NO.: SS-A00147

DRAWING NUMBER : VL70-000143A

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (X_o =434.643 to 578), In.	143.357	4.301
Max Width (X_o = 513.127), In.	152.412	4.572
Max Depth (At X_o = 485.), In.	25.000	0.750
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELEVON - E_{44}

GENERAL DESCRIPTION: 6.0 In. F.S. gaps machined into E_{44} elevon. Flapper doors, centerbody pieces, and tipseals are not simulated. (Data are for one of two sides).

MODEL SCALE: 0.030

DRAWING NUMBER: Not available

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area -- $Ft.^2$	210.0	0.189
Span (equivalent), In.	349.2	10.476
Inb'd equivalent chord , In.	118.0	3.54
Outb'd equivalent chord, In.	55.19	1.656
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.2096	0.2096
At Outb'd equiv. chord	0.2096	0.2096
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Trailing Edge	- 10.056	- 10.056
Hingeline	0.00	0.00
Area Moment (Product of area & $\bar{c}$), $Ft.^3$	1587.25	0.0429
Mean Aerodynamic Chord, In.	90.7	2.721

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : BODY FLAP - F_9

GENERAL DESCRIPTION : Configuration 140 A/B

MODEL SCALE: 0.030

DRAWING NUMBER : VL70-000140B, -000200

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (Chord), In.	84.7	2.541
Max Width , In.	262.308	7.869
Max Depth , In.	23.00	0.690
Fineness Ratio		
Area - $Ft.^2$		
Max. Cross-Sectional		
Planform	142.60	0.128
Wetted		
Base	41.90	0.0377

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: FEEDLINE - FL_{10}

GENERAL DESCRIPTION: LH_2 feedline on upper left-hand side of T_{28}.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	2071.5	62.145
	Y_T	- 70.0	- 2.100
	Z_T	573.934	17.218
Trailing edge at:	X_T	2081.80	62.454
	Y_T	- 70.00	- 2.10
	Z_T	584.059	17.522
Diameter of line (17.0 I.D.)		18.160	0.545

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: FEEDLINE - FL_{11}

GENERAL DESCRIPTION: LO_2 feedline on upper right-hand of T_{28}.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, VL78-000062B

DIMENSIONS:

		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1000.667	30.02
	Y_T	70.00	2.10
	Z_T	150.519	4.516
Trailing edge at:	X_T	2071.5	62.145
	Y_T	70.00	2.100
	Z_T	573.934	17.218
Line diameter (17.0 I.D.)	(O.D.)	18.16	0.545

TABLE III. -MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: FAIRING - FR_{10}

GENERAL DESCRIPTION: Umbilical door fairing between aft ET/orbiter attach structure.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:	FULL SCALE	MODEL SCALE
Leading edge at	2052.0	61.74
Length	193.0	5.79
Width	15.0	0.45

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: OMS POD - M_{16}

GENERAL DESCRIPTION: Configuration 140C orbiter OMS pod - short pod

MODEL SCALE: 0.030.

DRAWING NUMBER VL70-008401, -008410

DIMENSION:	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta. X_o=1310.5), In.	258.50	7.755
Max Width (@ X_o = 1511), In.	136.8	4.104
Max Depth (@ X_o = 1511), In.	74.70	2.241
Fineness Ratio	2.484	2.484
Area - Ft^2		
Max Cross-Sectional	58.864	0.053
Planform		
Wetted		
Base		

TABLE III. - MODEL DIMENSIONAL DATA- Continued.

MODEL COMPONENT: OMS NOZZLES - N_{28}

GENERAL DESCRIPTION: Configuration 140A 'B orbiter OMS Nozzles

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000140A (location), SS-A00106, Rel. 5 (Contour)

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane		
Throat to Exit Plane		
Diameter - In.		
Exit		
Throat		
Inlet		
Area - ft^2		
Exit		
Throat		
Gimbal Point (Station) - In.		
Left Upper Nozzle		
X_o	1518.00	45.54
Y_o	- 88.0	--2.64
Z_o	492.00	14.76
Right Lower Nozzle		
X_o	1518.00	45.54
Y_o	88.0	2.64
Z_o	492.00	14.76
Null Position - Deg.		
Left Upper Nozzle		
Pitch	15°49'	15°49'
Yaw	12°17'	12°17'
Right Lower Nozzle		
Pitch	15°49'	15°49'
Yaw	12°17'	12°17'

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: BSRM NOZZLE - N_{86}

GENERAL DESCRIPTION: Booster solid rocket motor nozzles.

MODEL SCALE: 0.030

DRAWING NO.: VL70-000066

DIMENSIONS:	FULL SCALE	MODEL SCALE
Diameter, D_{ex} - In. (I.D.)	144.29	4.3287
Diameter, D_{ex} - In. (O.D.)	146.79	4.4037
Diameter, DT - IN.		
Diameter, D_{in} - In.		
Area - Ft^2		
Max. Cross-sectional (I.D.)	113.553	0.102
Gimbal Origin:		
Left Nozzle		
X_o	1902.6	57.078
Y_o	--250.50	- 7.515
Z_o	400.0	12.00
Right Nozzle		
X_o	1902.6	57.078
Y_o	250.50	7.515
Z_o	400.0	12.00
Null Position: (Deg.)		
Left nozzle gimbal	± 8	± 8
Right nozzle gimbal	± 8	± 8

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ET PROTUBERANCE - PT_{12}

GENERAL DESCRIPTION: Lightning rod attached to ET nose.

MODEL SCALE: 0.030

DIMENSIONS:

	FULL SCALE	MODEL SCALE
Length	30.90	0.927
Diameter - In.	3.20	0.096

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELECTRICAL LINE - PT_{22}

GENERAL DESCRIPTION: Left-hand electrical conduit line on T_{28}.

MODEL SCALE: 0.030.

DRAWING NUMBER VL78-000063, -000062B

DIMENSION:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1084.333	32.530
	Y_T	- 99.591	— 2.988
	Z_T	-139.620	- 4.189
Trailing edge at:	X_T	2058.000	61.740
	Y_T	- 99.591	- 2.988
	Z_T	- 139.620	- 4.189
Conduit size:		2.0 x 6.0	0.06 x 0.18

Centerline of line located radially at $\emptyset$ = 35.5 deg.

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: LO_2 RECIRCULATION LINE - PT_{23}

GENERAL DESCRIPTION: LO_2 recirculation line on right-hand upper side side of T_{28}.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1040.667	31.220
	Y_T	94.169	2.825
	Z_T	540.934	16.228
Trailing edge at:	X_T	2062.920	61.888
	Y_T	70.000	2.100
	Z_T	573.934	17.218
Diameter of line		4.0	0.120

Centerline of line located radially at $\emptyset = 33^{o}45'$
(Right of TDC looking forward)

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: LH_2 RECIRCULATION LINE - PT_{24}

GENERAL DESCRIPTION: LH_2 recirculation line on T_{28}.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1040.667	31.220
	Y_T	- 94.169	- 2.825
	Z_T	540.934	16.228
Trailing edge at:	X_T	2062.920	61.888
	Y_T	- 70.00	-2.100
	Z_T	573.934	17.218
Diameter of line		4.00	0.120

Centerline of line located radially at $\emptyset = 33^{\circ}45'$
(Left of TDC looking forward)

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELECTRICAL LINE - PT_{25}

GENERAL DESCRIPTION: Right-hand aft electrical conduit line on T_{28} with LH_2 pressure sensor line and LOX vent valve actuator line.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:

		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1084.333	32.530
	Y_T	99.591	2.988
	Z_T	139.620	4.189
Trailing edge at:	X_T	2058.000	61.74
	Y_T	99.591	2.988
	Z_T	139.620	4.189
Line diameter		2.0 x 6.0	0.06 x 0.18

Centerline of line located radially at $\emptyset = 35.5^{\circ}$

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: LO_2 PRESSURE LINE - PT_{26}

GENERAL DESCRIPTION: LO_2 pressure line on T_{28}.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	360.733	10.822
	Y_T	15.145	0.454
	Z_T	407.718	12.232
Trailing edge at:	X_T	2083.5	62.505
	Y_T	63.25	1.898
	Z_T	609.00	18.27
Centerline of line located radially at $\emptyset = 27^\circ$			
Line diameter		2.0	0.060

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELECTRICAL LINE - PT_{27}

GENERAL DESCRIPTION: Electrical conduit on the right-hand forward section of T_{28}.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000062B

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	360.733	10.822
	Y_T	11.549	0.346
	Z_T	412.474	12.374
Trailing edge at:	X_T	876.273	26.288
	Y_T	226.114	6.783
	Z_T	646.774	19.403

Centerline of conduit located radially at $\emptyset = 47.5^{\circ}$

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: RUDDER - R_5

GENERAL DESCRIPTION: Configuration 140C orbiter rudder (Identical to configuration 140A/B rudder).

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000146B, -000095

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area - Ft^2	100.15	0.090
Span (equivalent), In.	201.0	6.03
Inb'd equivalent chord, In.	91.585	2.748
Outb'd equivalent chord, In.	50.833	1.525
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Trailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Product of area & $\bar{c}$), Ft^3	610.92	0.016
Mean Aerodynamic Chord, In.	73.2	2.196

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: BOOSTER SOLID ROCKET MOTOR - S_{21}

GENERAL DESCRIPTION:

MODEL SCALE: 0.030

DRAWING NUMBER VL72-000143D, VL77-000066

DIMENSION:	FULL SCALE	MODEL SCALE
Length (Includes nozzle), In.	1789.40	53.682
~~Max Width~~ Tank Diam, In.	146.00	4.38
~~Max Depth~~ Aft shroud Dia., In.	192.00	5.76
Fineness Ratio	9.3198	9.3198
Area - Ft^2		
Max Cross-Sectional	201.062	0.1809
Planform		
Wetted		
Base		
WP of BSRM centerline (Z_T)	400.0	1.200
FS of BSRM nose (X_T)	743.0	22.29
BP of BSRM centerline (Y_T)	250.5	7.515

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: EXTERNAL TANK - T_{20}

GENERAL DESCRIPTION:

NOTE: (Dimensions are to tank structural OML, TPS not included.)

MODEL SCALE: 0.030

DRAWING NUMBER VL72-000143D, VL78-000063

DIMENSION:	FULL SCALE	MODEL SCALE
Length, In.	1844.275	55.328
Max ~~Width~~ Dia., In.	331.00	9.93
Max Depth		
Fineness Ratio	5.687	5.687
Area - Ft^2		
Max Cross-Sectional	594.678	0.053
Planform		
Wetted		
Base		

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: VERTICAL - V_8

GENERAL DESCRIPTION: Configuration 140C orbiter vertical tail (identical to configuration 140A/B vertical tail)

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000140C, -000146B

DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) - Ft^2	413.253	0.372
Planform	315.72	9.472
Span (Theo) - In.	1.675	1.675
Aspect Ratio	0.507	0.507
Rate of Taper	0.404	0.404
Taper Ratio		
Sweep-Back Angles, Degrees.		
Leading Edge	45.000	45.000
Trailing Edge	26.25	26.25
0.25 Element Line	41.13	41.13
Chords:		
Root (Theo) WP	268.50	8.055
Tip (Theo) WP	108.47	3.254
MAC	199.81	5.992
Fus. Sta. of .25 MAC	1463.35	43.901
W.P. of .25 MAC	635.52	19.066
B.L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle - Deg.	10.00	10.00
Trailing Wedge Angle - Deg.	14.92	14.92
Leading Edge Radius	2.00	0.060
Void Area	13.17	0.0019
Blanketed Area	0.0	0.0

TABLE III. - MODEL DIMENSIONAL DATA - Concluded.

MODEL COMPONENT: WING-W 116

GENERAL DESCRIPTION: Configuration 4

NOTE: Identical to W_{114} except airfoil thickness. Dihedral angle is along trailing edge of wing.

MODEL SCALE : 0.030

TEST NO.

DWG. NO. VL70-000140A, -000200

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft^2 Planform	2690.00	2.421
Span (Theo In.	936.68	28.10
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	3.000	3.000
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	- 10.056	- 10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.0.0.	689.24	20.677
Tip, (Theo) B.P.	137.85	4.136
MAC	474.81	14.244
Fus. Sta. of .25 MAC	1136.83	34.105
W.P. of .25 MAC	290.58	8.717
B.L. of .25 MAC	182.13	5.464
EXPOSED DATA		
Area (Theo) Ft^2	1751.50	1.576
Span, (Theo) In. BP108	720.68	21.620
Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords		
Root BP108	562.09	16.863
Tip 1.00 $\frac{b}{2}$	137.85	4.136
MAC	392.83	11.785
Fus. Sta. of .25 MAC	1185.98	35.579
W.P. of .25 MAC	294.30	8.829
B.L. of .25 MAC	251.77	7.553
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root $\frac{b}{2}$ =	0.113	0.113
Tip $\frac{b}{2}$ =	0.120	0.120
Data for (1) of (2) Sides		
Leading Edge Cuff Planform Area Ft^2	113.18	0.102
Leading Edge Intersects Fus M. L. @ Sta	500.0	15.00
Leading Edge Intersects Wing @ Sta	1024.00	30.72

TABLE IV.
ORBITER WING PRESSURE TAP NUMBERS

ORBITER LEFT WING PRESSURE TAP NUMBERS

η	Y_o		NO. TAPS	Σ TAPS
		X/C 0 .041 .113 .247 .429 .547 .638 .727 .793		
.233	110	TOP 208 209 210 211 212 213 214 215 216	9	9
		BOT - - - - - - - - -	0	
		X/C 0 .010 .020 .050 .094 .229 .362 .497 .700 .834 .865 .900 .965		
.291	140	TOP 217 218 219 220 221 222 223 224 225 226 227 228 229	13	34
		BOT - 230 231 232 233 234 235 236 237 238 239 240 241	12	
		X/C 0 .010 .020 .040 .086 .163 .246 .340 .631 .745 .839 .879 .919 .955		
.346	170	TOP 242 243 244 245 246 247 248 249 250 251 252 253 254 255	14	61
		BOT - 256 257 258 259 260 261 262 263 264 265 266 267 268	13	
		X/C 0 .010 .020 .040 .093 .177 .274 .402 .565 .760 .808 .859 .905 .953 1.000		
.402	200	TOP 269 270 271 272 273 274 275 276 277 278 279 280 281 282 -	14	89
		BOT - 283 284 285 286 287 288 289 290 291 292 293 294 295 296	14	
		X/C 0 .010 .020 .050 .080 .120 .250 .400 .550 .725 .775 .850 .900 .950		
.534	250	TOP 297 298 299 300 301 302 303 304 305 306 307 308 309 310	14	116
		BOT - 311 312 313 314 315 316 317 318 319 320 321 322 323	13	
		X/C .775 .850 .950 1.000		
.641	300	TOP 333 334 335 -	3	123
		BOT 344 345 346 347	4	
		X/C 0 .010 .020 .050 .150 .250 .400 .550 .700		
.693	315	TOP 324 325 326 327 328 329 330 331 332	9	140
		BOT - 336 337 338 339 340 341 342 343	8	
		X/C 0 .010 .020 .050 .150 .250 .650 .750 .850 .950		
.780	365	TOP 348 349 350 351 352 353 354 355 356 357	10	159
		BOT - 358 359 360 361 362 363 364 365 366	9	
		X/C 0 .010 .020 .050 .150 .250 .400 .600 .750 .900 1.000		
.858	445	TOP 367 368 369 370 371 372 373 374 375 376 -	10	179
		BOT - 377 378 379 380 381 382 383 384 385 386	10	
		X/C 0 .028 .069 .157 .345 .503 .670 .862		
.912	495	TOP 387 388 389 390 391 392 393 394	8	194
		BOT - 395 396 397 398 399 400 401	7	
		X_{TE} 1362 1405		
1.0		TOP 402 403	2	196
		BOT - -		

ORBITER RIGHT WING PRESSURE TAP NUMBERS

η	Y_o		NO. TAPS	Σ TAPS
		X/C 0 .041 .113 .247 .429 .547 .638 .727 .793		
.235	110	TOP 404 405 406 407 408 409 410 411 412	9	205
		BOT - - - - - - - - -	0	
		X/C 0 .010 .020 .040 .086 .163 .246 .340 .631 .745		
.341	170	TOP 413 414 415 416 - 417 418 419 420 421	9	222
		BOT - 422 423 424 425 426 427 428 - 429	8	

TABLE V. ORBITER FUSELAGE PRESSURE TAP NUMBERS

ORBITER X_o - IN.			Φ RADIAL LOCATION ~ DEGREES																								
FULL	MODEL	X_o/L_o	0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180	305	320	340	NO TAPS	Σ TAPS
235	7.05	0	7																						1	1
245	7.35	.008	8					9																	1	2
265	7.95	.023	11	12	13	14	15	16			17			18							10				3	4
295	8.85	.046	23	24	25	26	27	28			29			30							19	20	21	22	12	16
325	9.75	.070	35	36	37	38	39	40			41			42							31	32	33	34	12	28
380	11.40	.112	47	48	49	50	51	52			53			54							43	44	45	46	12	40
440	13.20	.158																			55	56	57	58	12	52
450	13.50	.166	60	61	62	63	64	65			66					67			68		69	70	71	72	13	66
465	13.95	.177													73		74								2	68
500	15.00	.204	75	76	77	78	79	80			81		82	83				84			85	86	87	88	14	82
560	16.80	.251	89		90		91	92			93			94				95			96		97		9	91
625	18.75	.301	98		99		100	101			102			103				104			105		106		9	100
725	21.75	.378	107		108		109	110			111			112				113			114		115		9	109
880	26.40	.497	116		117		118	119			120			121				122			123		124		9	118
980	29.40	.574	125		126																		127		3	121
1080	32.40	.652	128		129		130	131			132			133				134			135		136		9	130
1180	35.40	.729	137		138		139	140			141			142							143		144		8	138
1245	37.35	.779	145		146		147	148	149		150	151		152				153			154		155		11	149
1300	39.00	.821	156		157		158	159	160		161	162		163							164		165		10	159
1375	41.25	.879	166		167		168	169	170		171	172		173				174					175		10	169
1430	42.90	.921	176		177		178	179	180		181	182		183				184					185		10	179
1480	44.40	.960	186		187		188	189	190		191	192		193				194					195		10	189
1530	45.90	.999								196	197														2	191
1530	45.90	.999								198	199														2	193

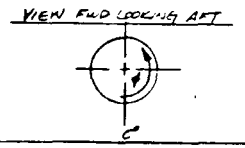
L_o = 1297.0 IN.

a. OMS POD, INSIDE
b. OMS POD OUTSIDE

TABLE VI. ORBITER VERTICAL TAIL PRESSURE TAP NUMBERS (LEFT SIDE ONLY)

VERTICAL			X/CV										
Z_o FULL SCALE	Z_o MODEL SCALE	η_V	0	.025	.05	.15	.30	.52	.685	.775	.90	No. TAPS	TAPS
550	16.5	.153	430	431	432	433	434	435	436	437		8	8
600	18.0	.316	438	439	440	441	442	443	444	445	446	9	17
690	20.7	.600	447	448	449	450	451	452	453	454	455	9	26
765	22.95	.840	456	457	458	459	460	461	462	463	464	9	35
792	23.76	.925	465	466	467	468	469	470	471	472	473	9	44

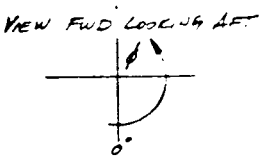
TABLE VII. EXTERNAL TANK PRESSURE TAP NUMBERS



X_T ~ IN. FULL SCALE	X_{TM} IN MODEL SCALE	X_T/L_T	ϕ ~ DEGREES																NO TAPS
			0	30	60	90	120	135	147	162	180	198	213	225	240	270	300	330	
298/329	8.937/9.87	0	474																1
346	10.38	0.0092	475	476	477	478	479		480		481		482		483	484	485	486	12
363	10.89	0.0184	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	16
403	12.09	0.0400	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	16
443	13.44	0.0644	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	16
568	17.04	0.1296	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	16
688	20.64	0.1944	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	16
718	21.54	0.2106	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	16
758	22.74	0.2323	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	16
803	24.24	0.2594	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	16
850	25.50	0.2821	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	16
950	28.50	0.3362	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	16
1050	31.50	0.3904	647	648/662	649	650	651	652	653	654	655	656	657	658	659	660	661	--	16
1150	34.50	0.4445	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	16
1250	37.50	0.4987	679	681	681	682	683	684	685	686	687	688	689	690	691	692	693	694	16
1350	40.50	0.5528	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	16
1500	45.00	0.6340	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	16
1700	51.00	0.7423	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	16
1900	57.00	0.8506	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	16
2040	61.20	0.9264	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	16
2146	64.38	0.9838	775	776	777	778	779		780		781		782		783	784	785	786	12
STING CAVITY			787																1
																		Σ TAPS	314

L_T = 1846.91 IN.

TABLE VIII LEFT SRB PRESSURE TAP NUMBERS



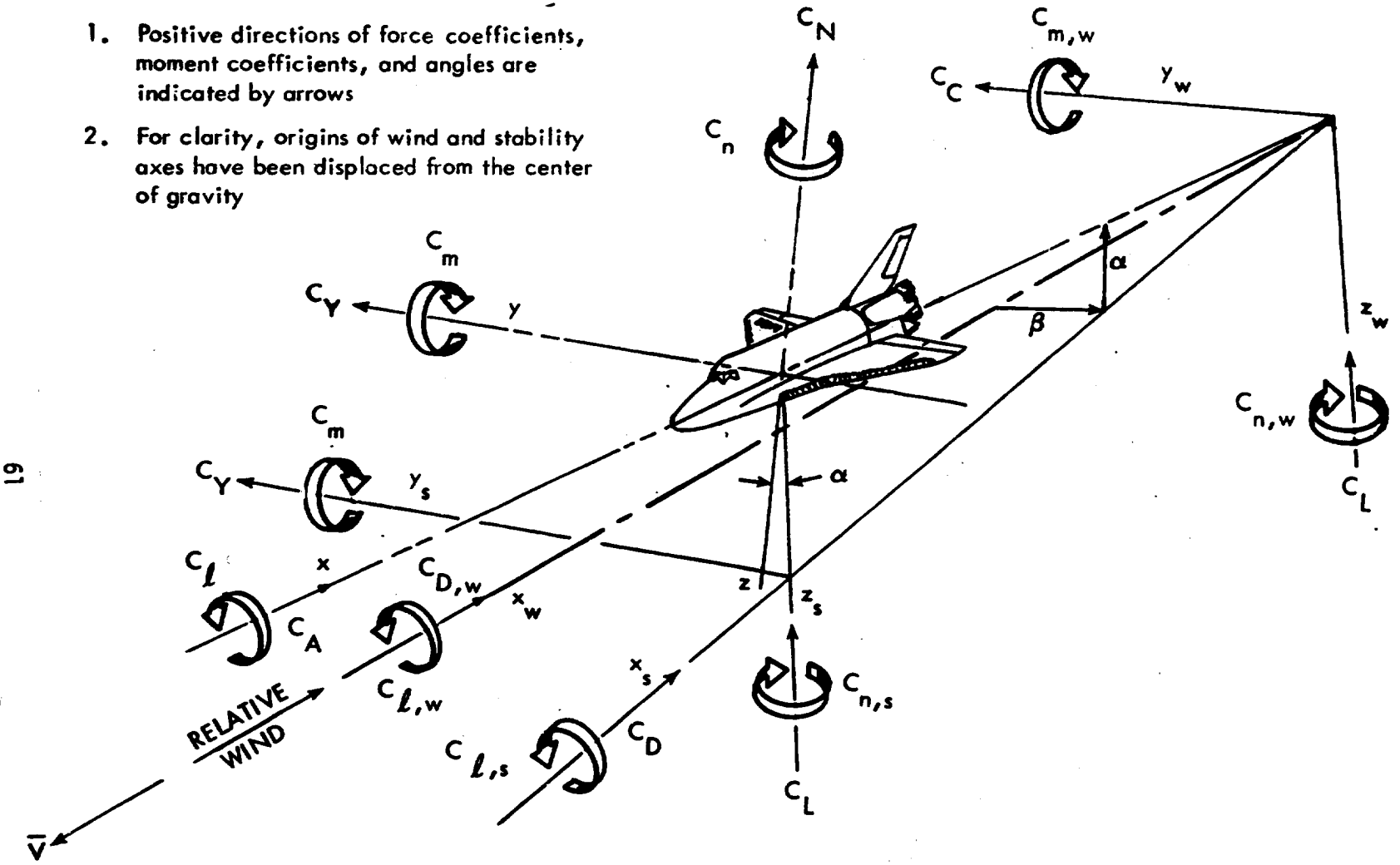
	X_s ~ IN. FULL SCALE	X_s ~ IN. MODEL SCALE	X_s/ℓ_s	φ ~ DEGREES									NO. TAPS	Σ NO TAPS
				0	45	90	135	180	225	270	315			
	200	6	0	788									1	1
	260	7.8	0.0335	789	790	791	792	793	794	795	796		8	9
	370	11.1	0.0950	797	798	799	800	801	802	803	804		8	17
	400	12.0	0.1118	805	806	807	808	809	810	811	812		8	25
	450	13.5	0.1397	813	814	815	816	817	818	819	820		8	33
	550	16.5	0.1956	821	822	823	824	825	826	827	828		8	41
	700	21.0	0.2794	829	830	831	832	833	834	835	836		8	49
	850	25.5	0.3632	837	838	839	840	841	842	843	844		8	57
	1050	31.5	0.4250	845	846	847	848	849	850	851	852		8	65
	1250	37.5	0.5867	853	854	855	856	857	858	859	860		8	73
	1450	43.5	0.6985	861	862	863	864	865	866	867	868		8	81
*	1503	45.09	0.7280	869				871		872			3	84
*	1505	45.15	0.7290	873		874		875		876			4	88
*	1517	45.51	0.7360	877		878		879		880			4	92
*	1519	45.57	0.737	881				883		884			3	95
	1650	49.5	0.8102	885	886	887	888	889	890	891	892		8	103
	1750	52.5	0.8661	893	894	895	896	897	898	899	900		8	111
*	1832.9	54.99	0.9120	909		910		911		912			4	115
*	1833.9	55.02	0.9130	913		914		915		916			4	119
	1872.2	56.17	0.9344	917	918	919	920	921	922	923	924		8	127
	1911.7	57.35	0.9565	925	926	927	928	929	930	931	932		8	135
	SKIRT END			933			934			935			3	138
	NOZZLE BASE ℄			936									1	139

ℓ_s = 1789.60 IN.

* PRESSURE TAPS AT 77.5 IN. RADIUS ON THE STRUCTURAL RINGS

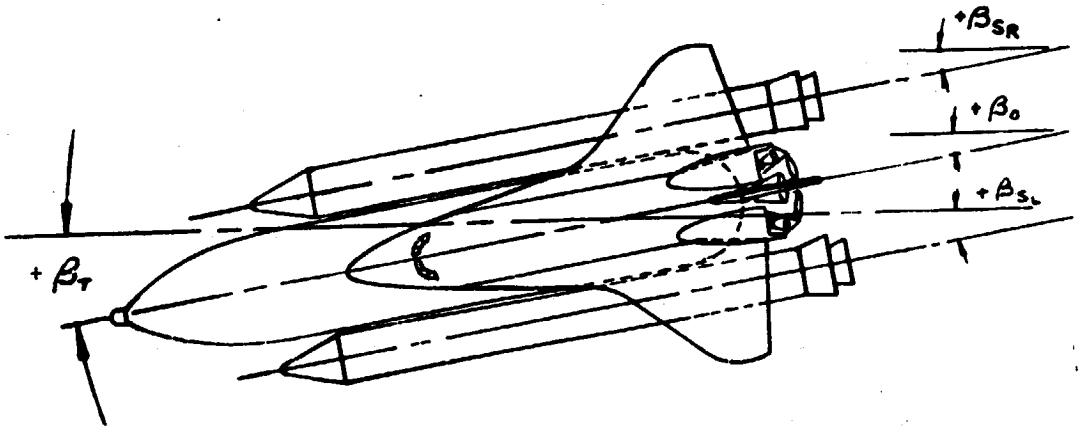
Notes:

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

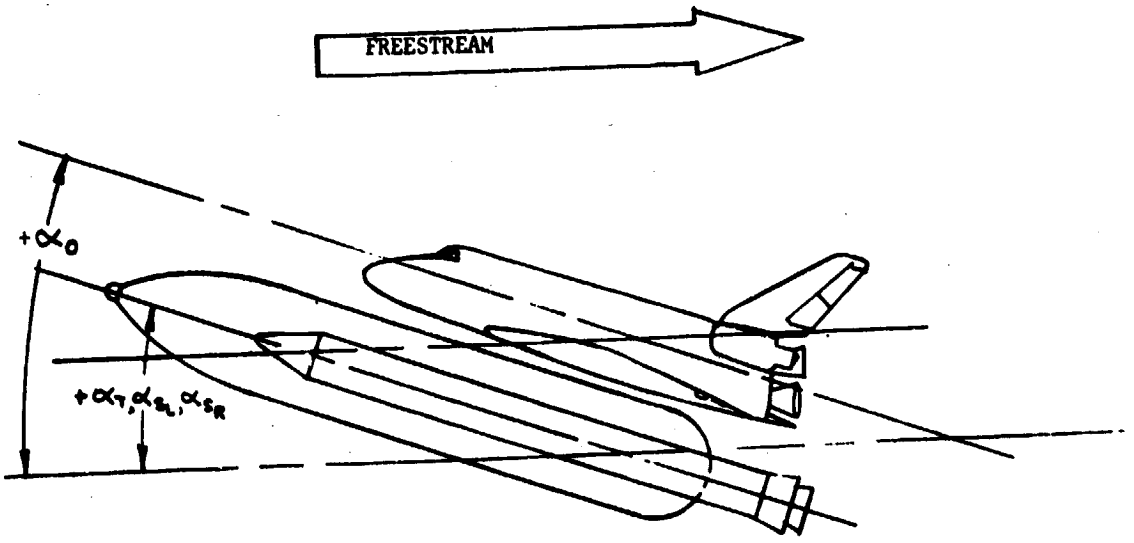


a. Forces and Moments

Figure 1. - Axis Systems.



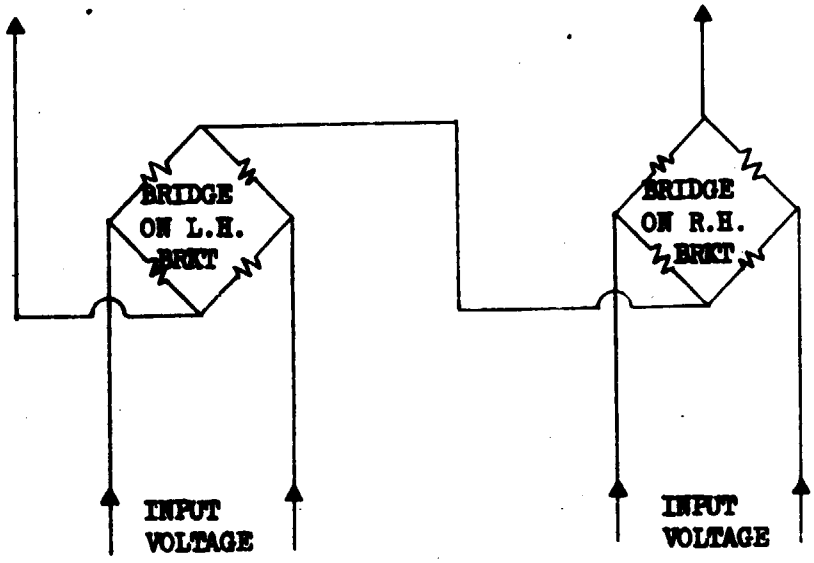
SIDESLIP ANGLES



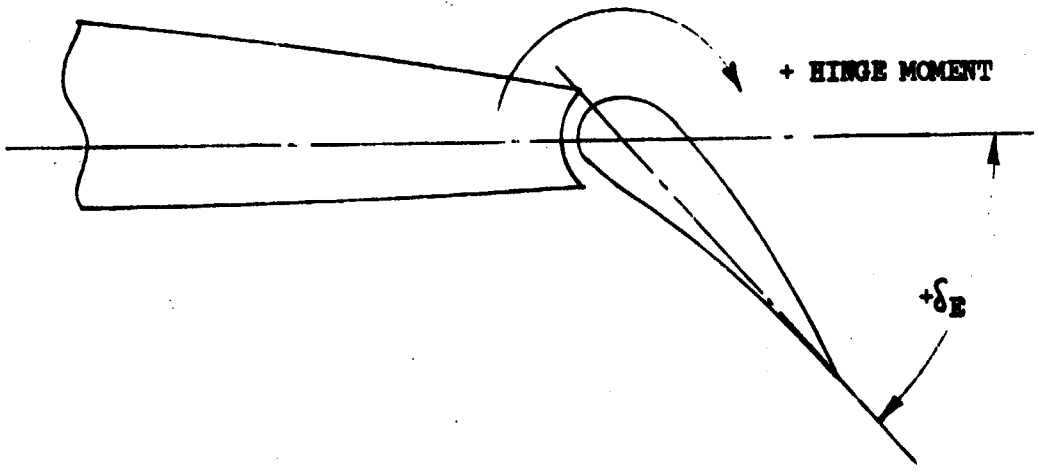
PITCH ANGLES

b. Model Attitude Definition
Figure 1. - Continued.

OUTPUT VOLTAGE

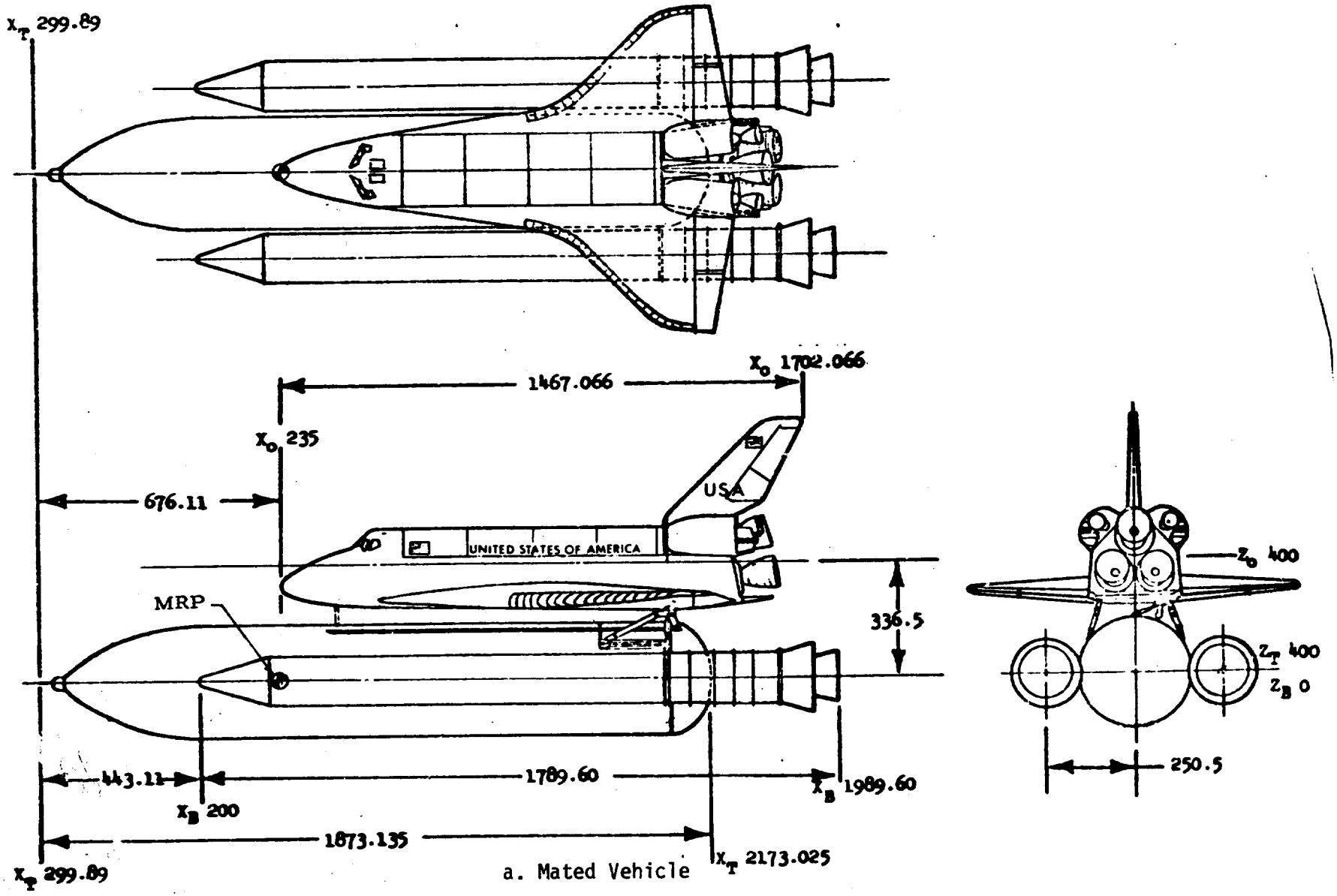


ELEVON HINGE MOMENT WIRING DIAGRAM
TYPICAL FOR INBOARD AND OUTBOARD ELEVONS



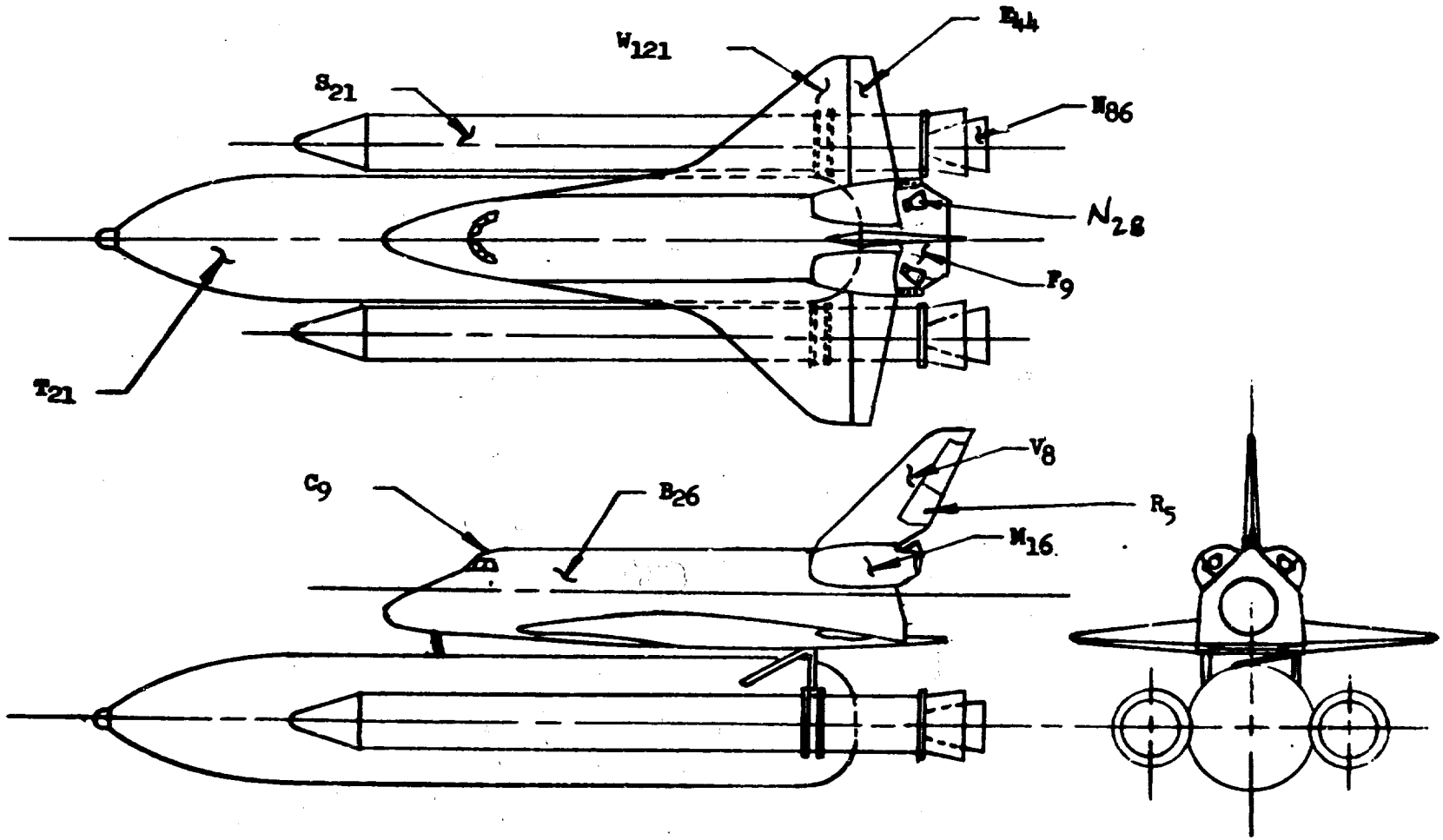
c. Elevon Electrical Hookup and Sign Conventions

Figure 1. - Concluded.



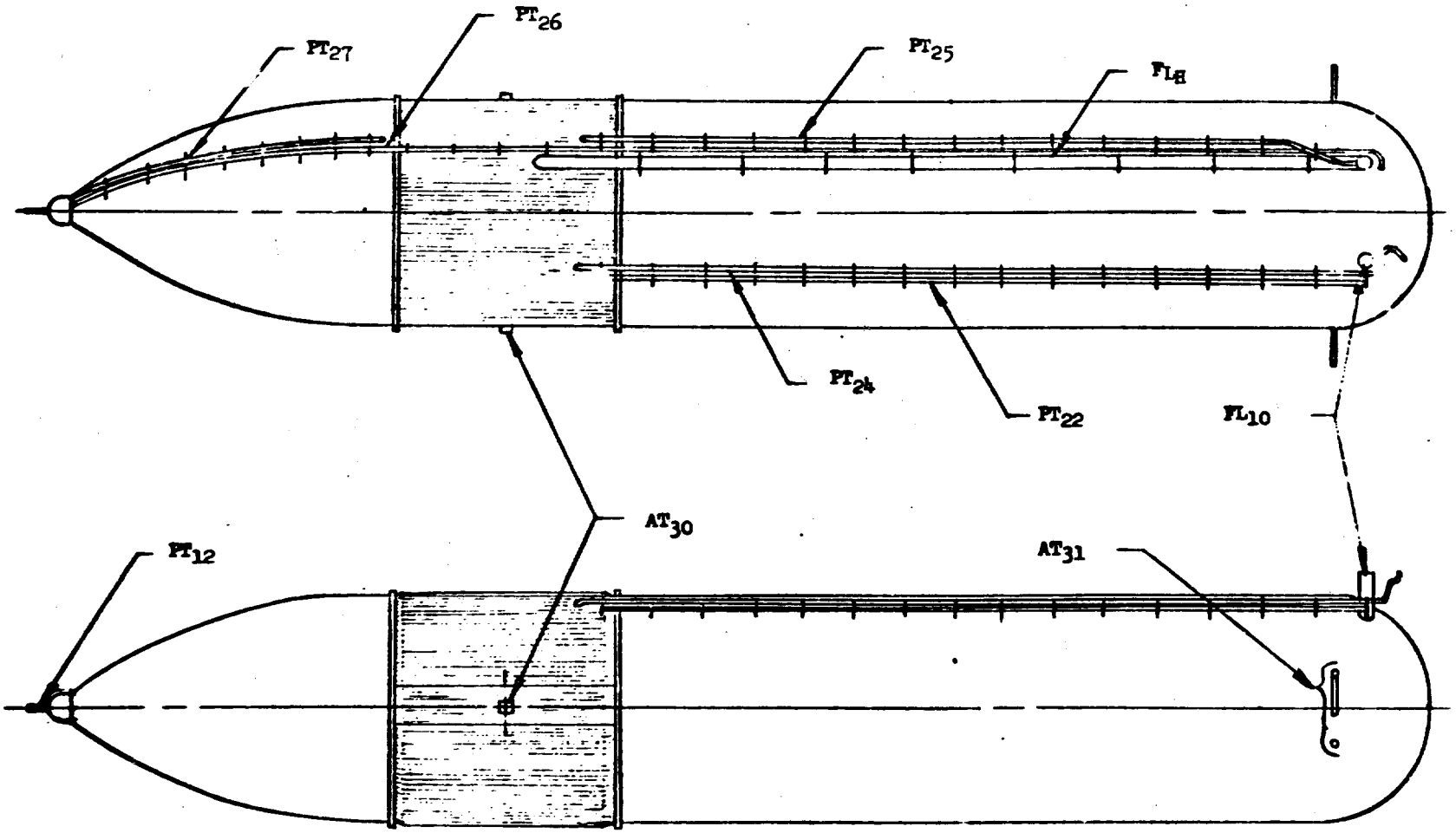
a. Mated Vehicle

Figure 2. - Model sketches.



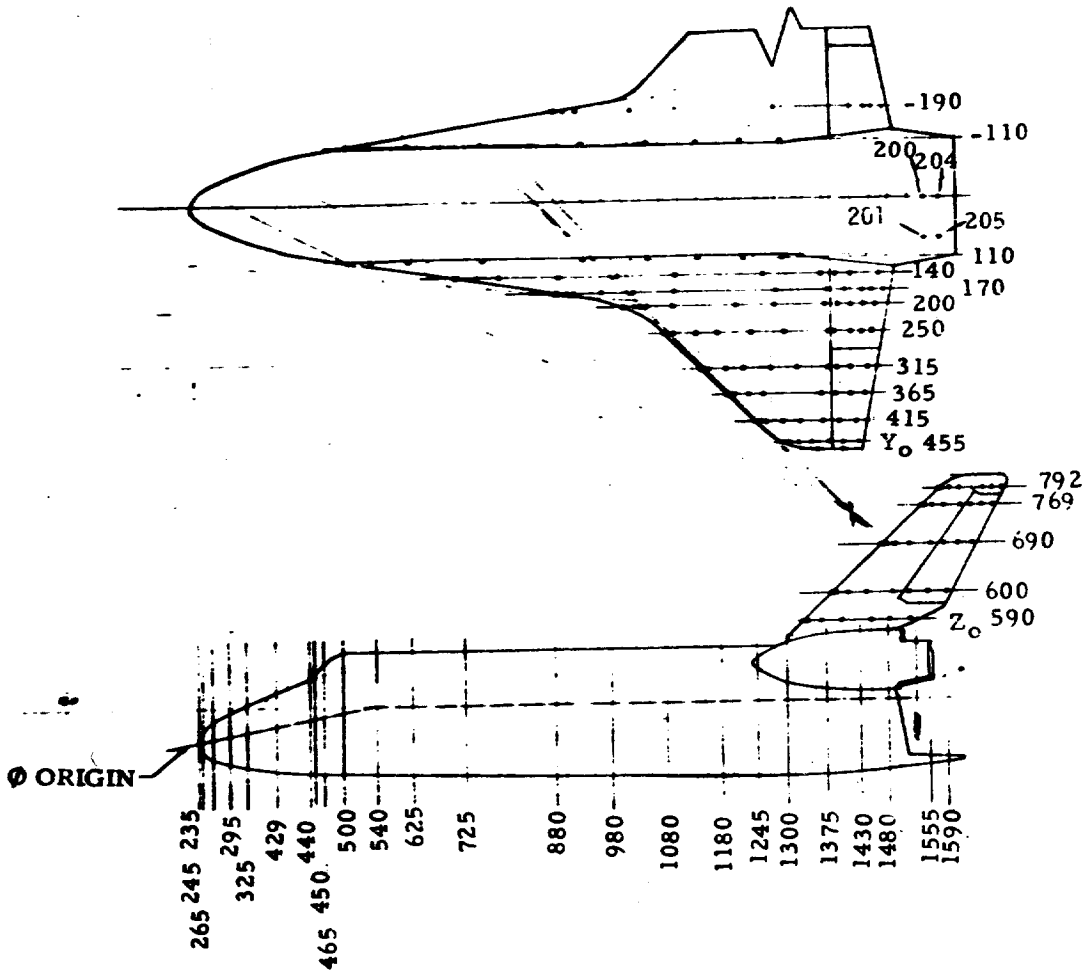
b. LVA Integrated Vehicle Three View

Figure 2. - Continued.

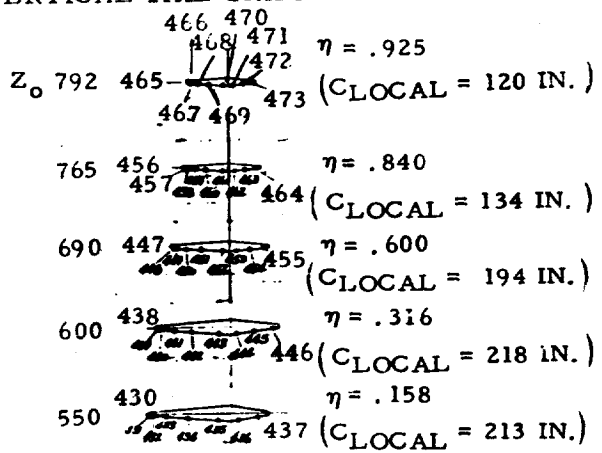


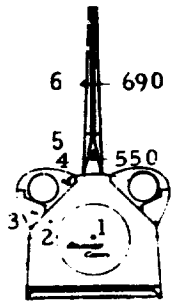
c. (T_{28}) External Tank Protuberances

Figure 2. - Continued.



VERTICAL TAIL ORIFICE LOCATION

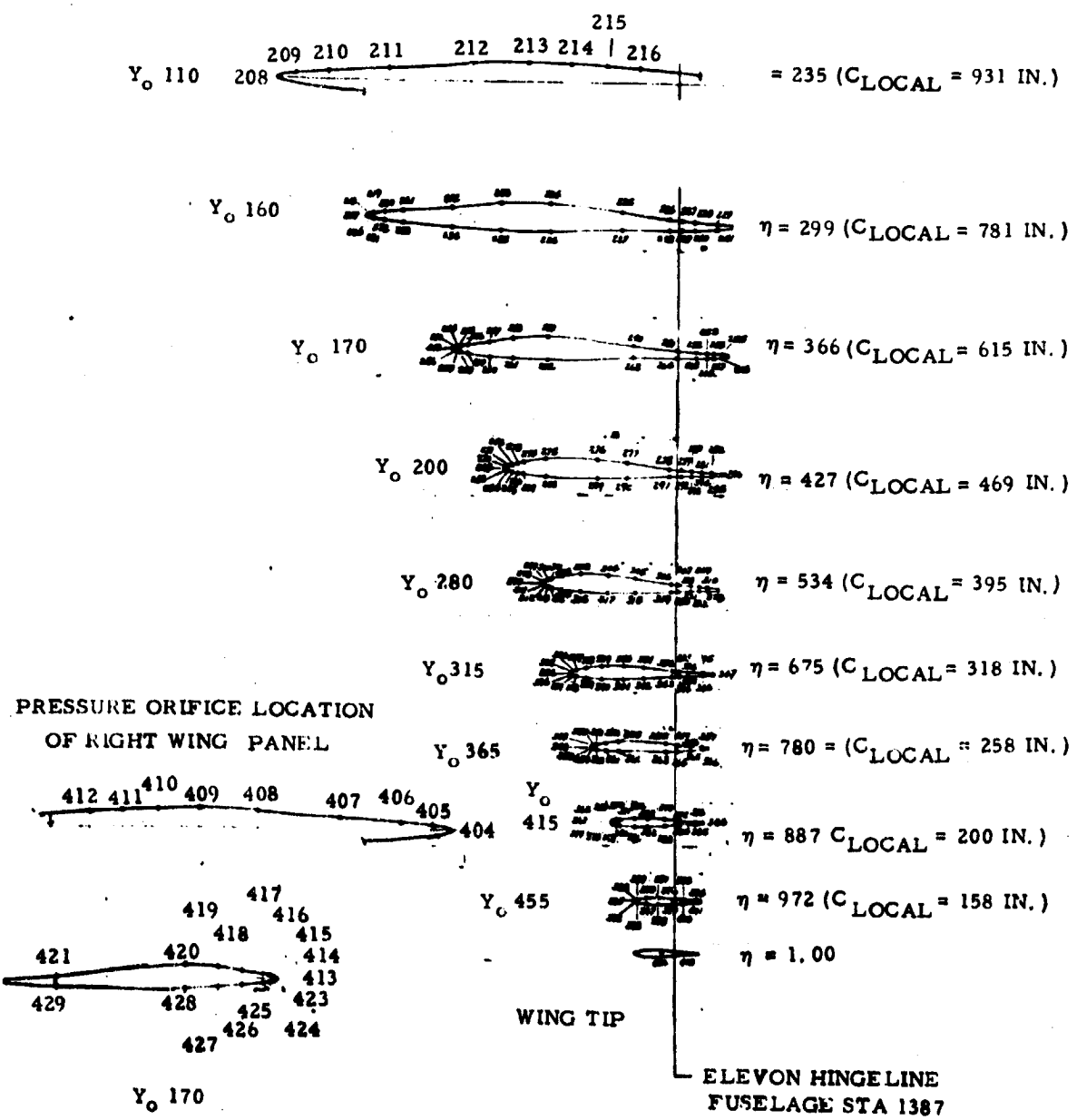




ORBITER BASE
VIEW LOOKING FORWARD

d. Orbiter Upper Wing and Vertical Tail Pressure Tap Locations

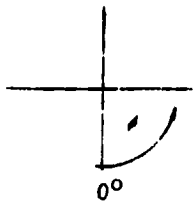
Figure 2. - Continued.



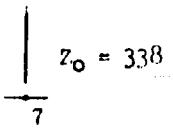
e. Orbiter Wing Pressure Tap Locations

Figure 2. - Continued.

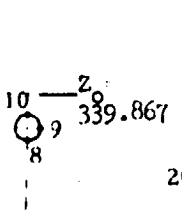
FUSELAGE ORIFICE LOCATION
NOTE:
VIEW LOOKING AFT



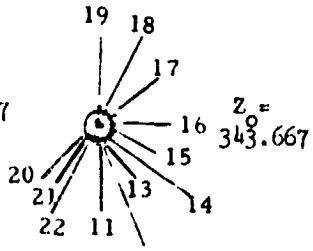
FUS STA 235



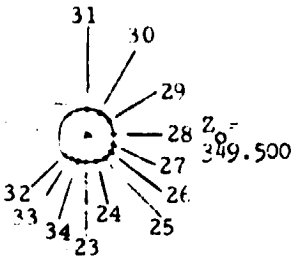
FUS STA 245



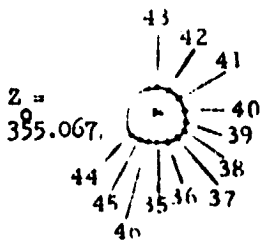
FUS STA 265



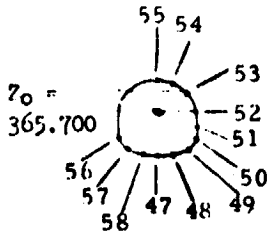
FUS STA 295



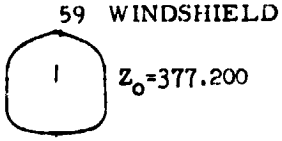
FUS STA 325



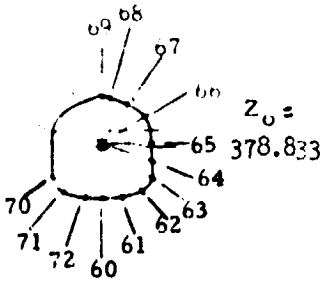
FUS STA 380



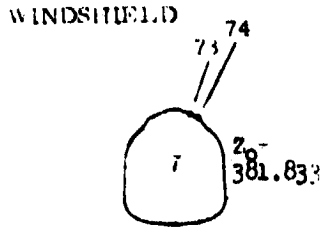
FUS STA 440



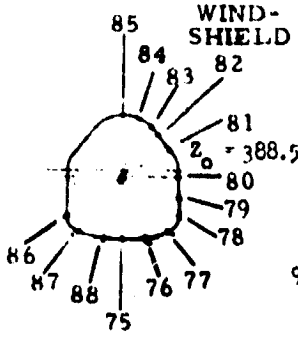
FUS STA 450



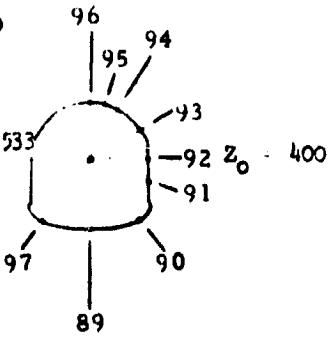
FUS STA 465



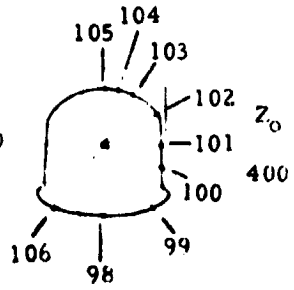
FUS STA 500



FUS STA 560

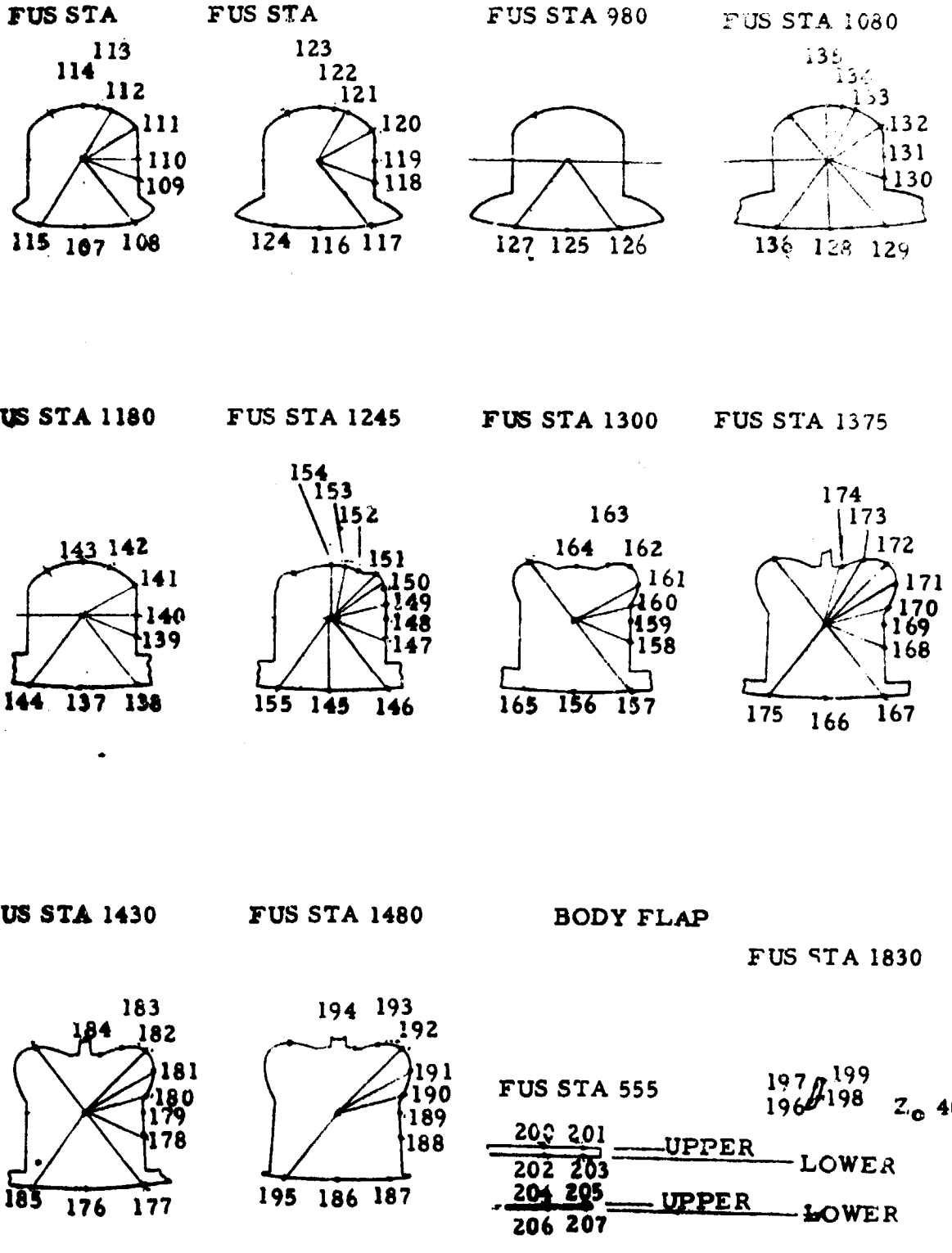


FUS STA 625



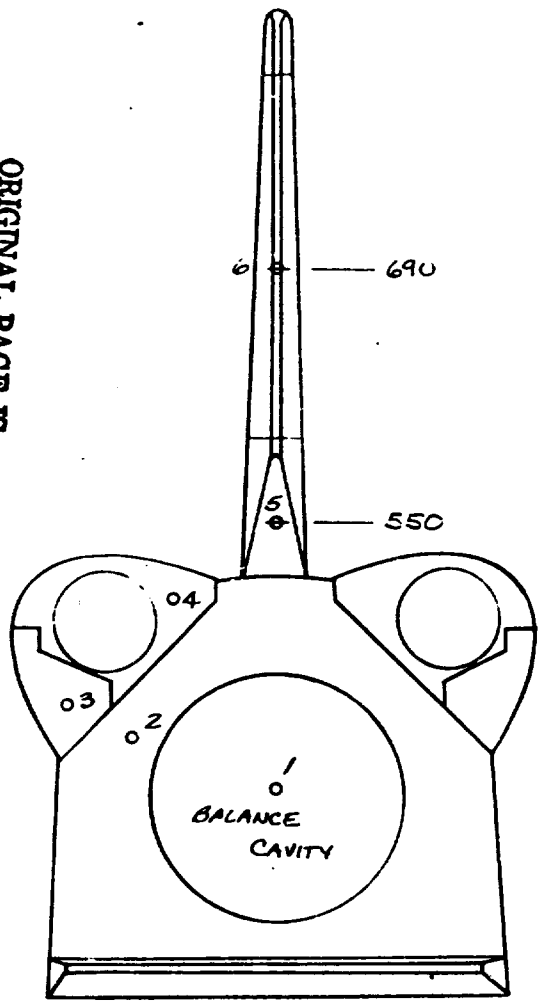
f. Orbiter Forward Fuselage Pressure Tap Locations

Figure 2. - Continued.



g. Orbiter Aft Fuselage Pressure Tap Locations

Figure 2. - Continued.



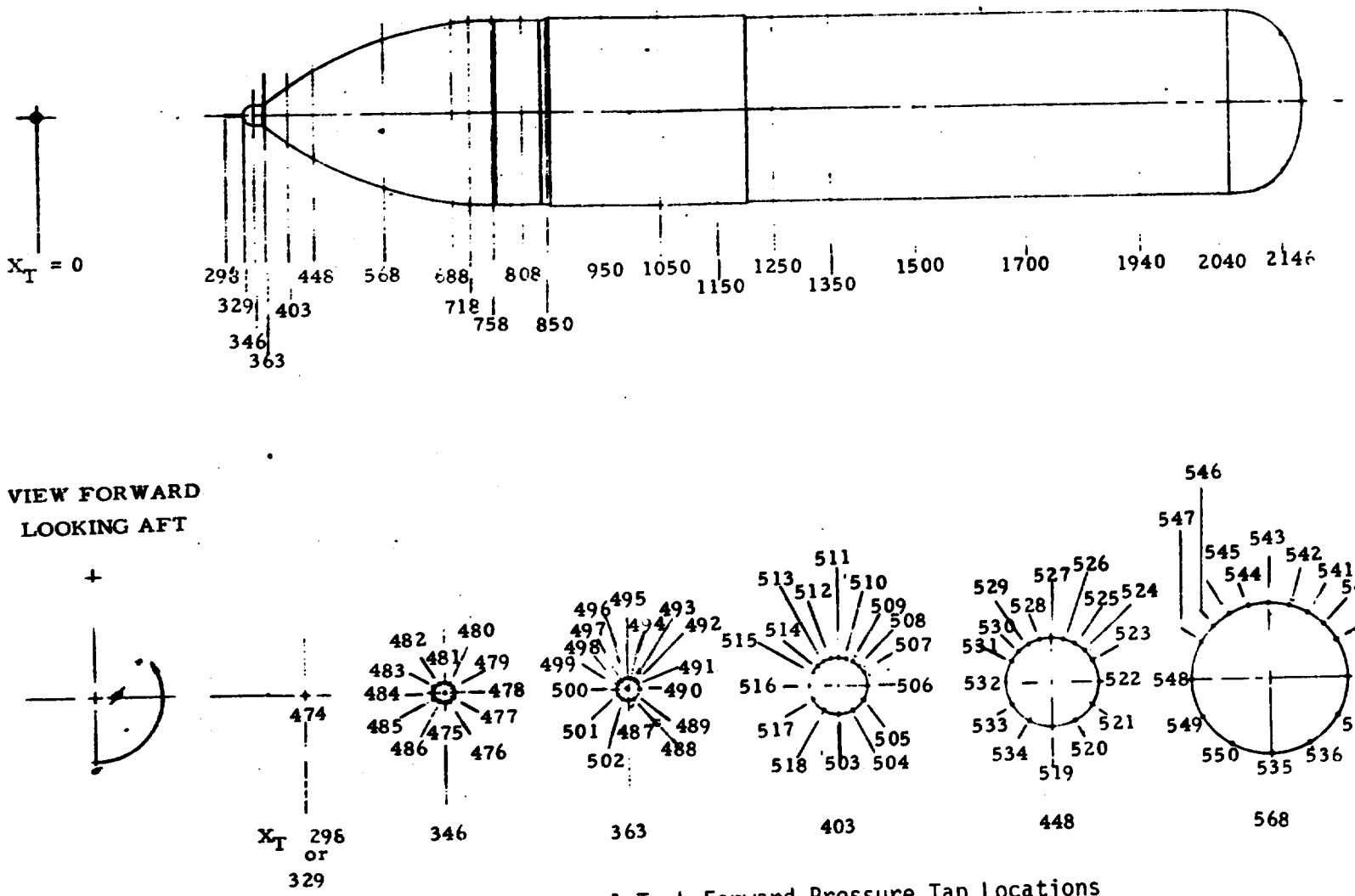
ORBITER BASE PRESSURE TAPS

BODY FLAP PRESSURE TAP NUMBERS

ORBITER ~ X_C			∅ ~ 066.			
FULL SCALE	MODEL SCALE	X_O/L_O	0	40	NO. TAPS	Σ NO. TAPS
1555_U	46.65		200	201	2	2
1555_L	46.65		202	203	2	4
1590_U	47.70		204	205	2	6
1590_L	47.70		206	207	2	8

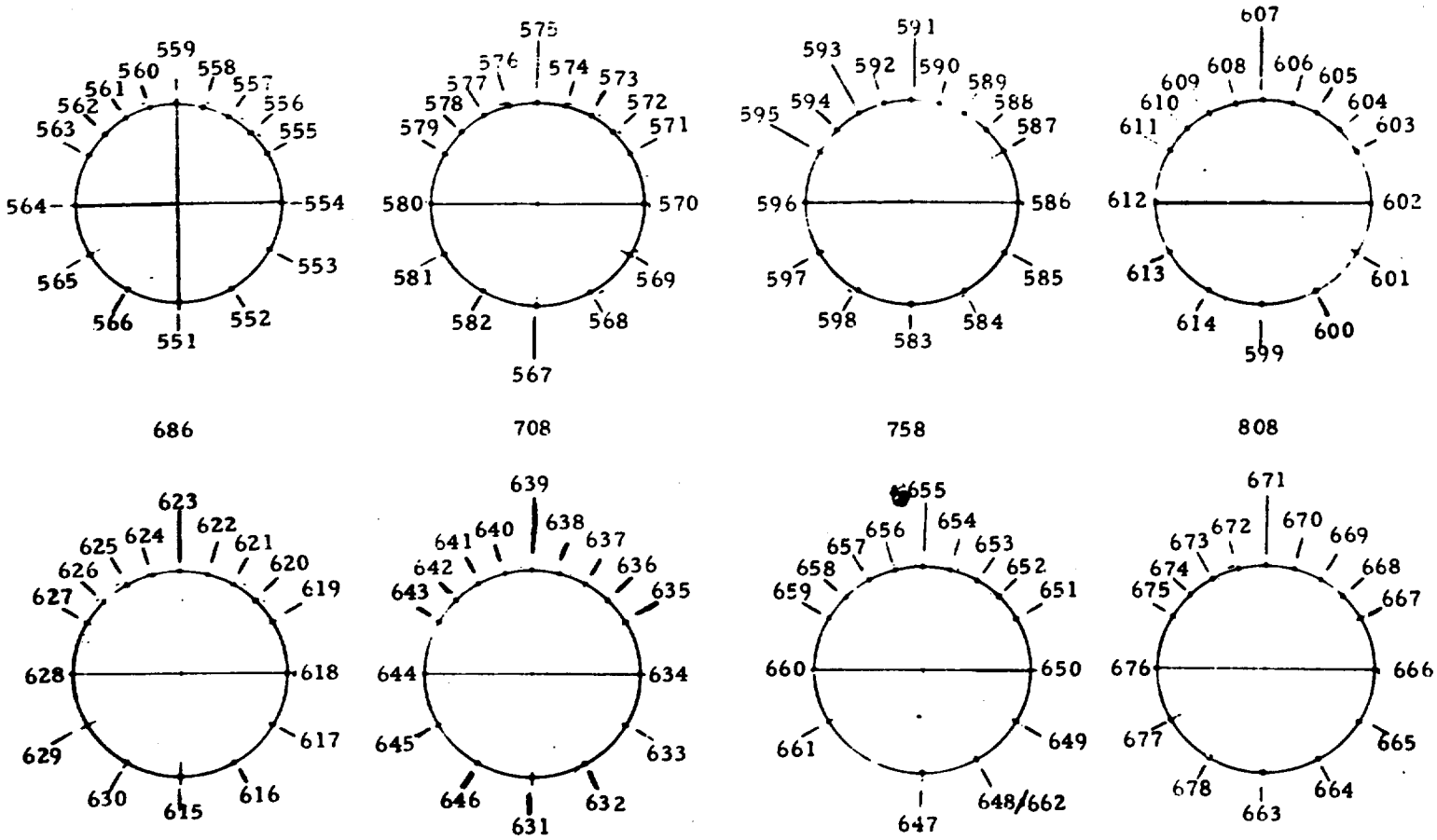
h. Orbiter Base Pressure Tap Locations

Figure 2. - Continued.



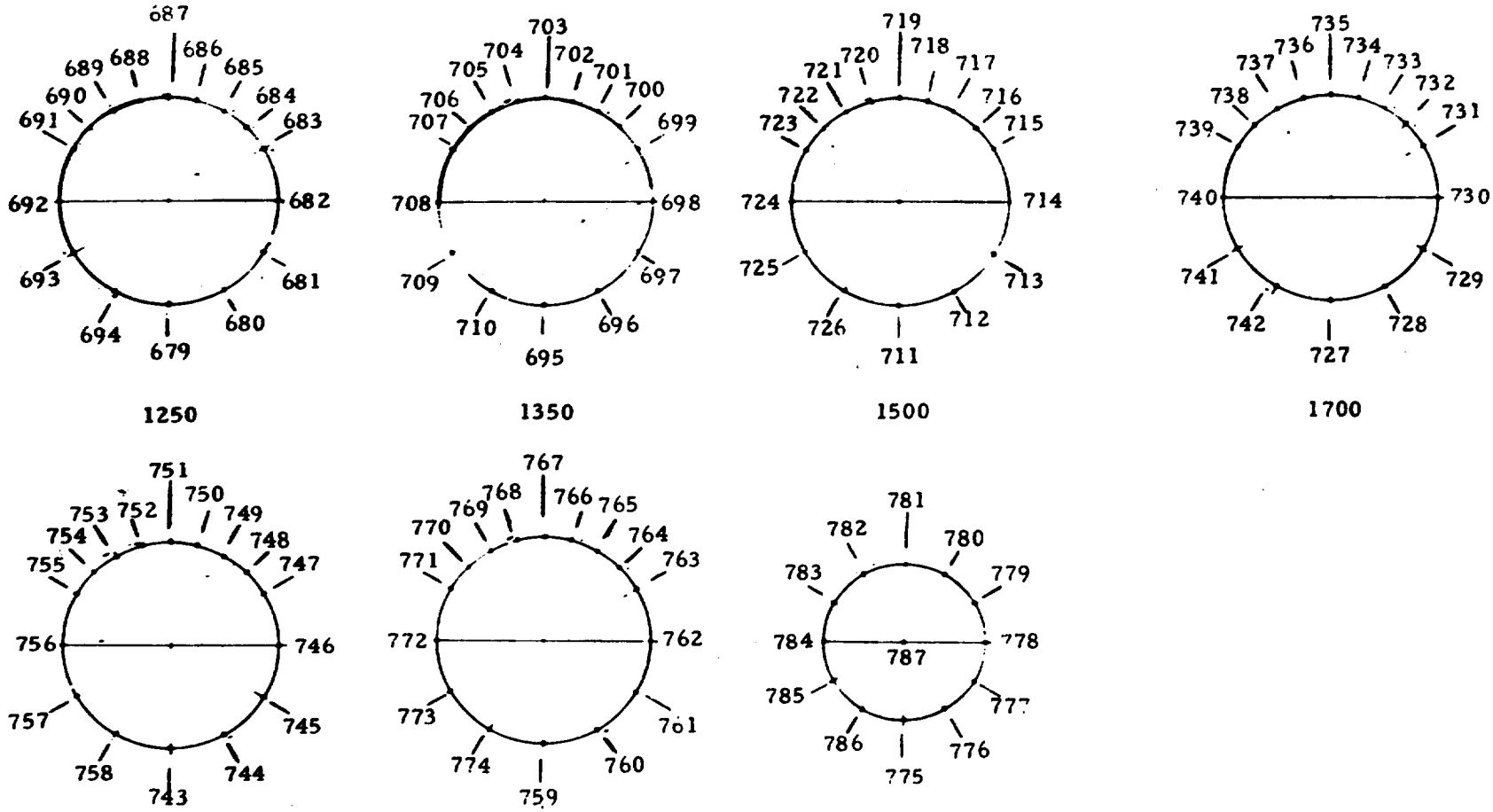
i. External Tank Forward Pressure Tap Locations

Figure 2. - Continued.



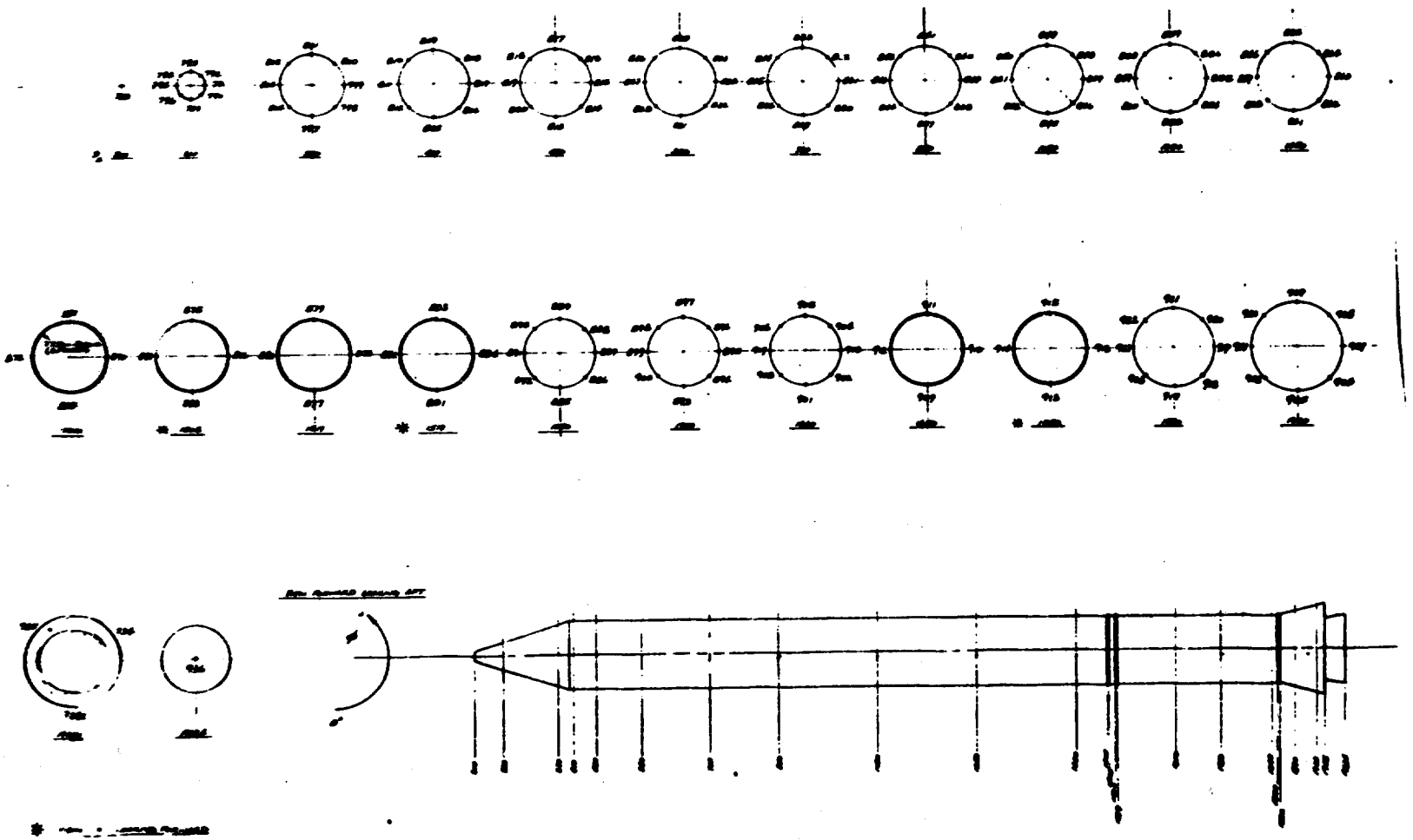
j. External Tank Mid Pressure Tap Locations

Figure 2. - Continued.



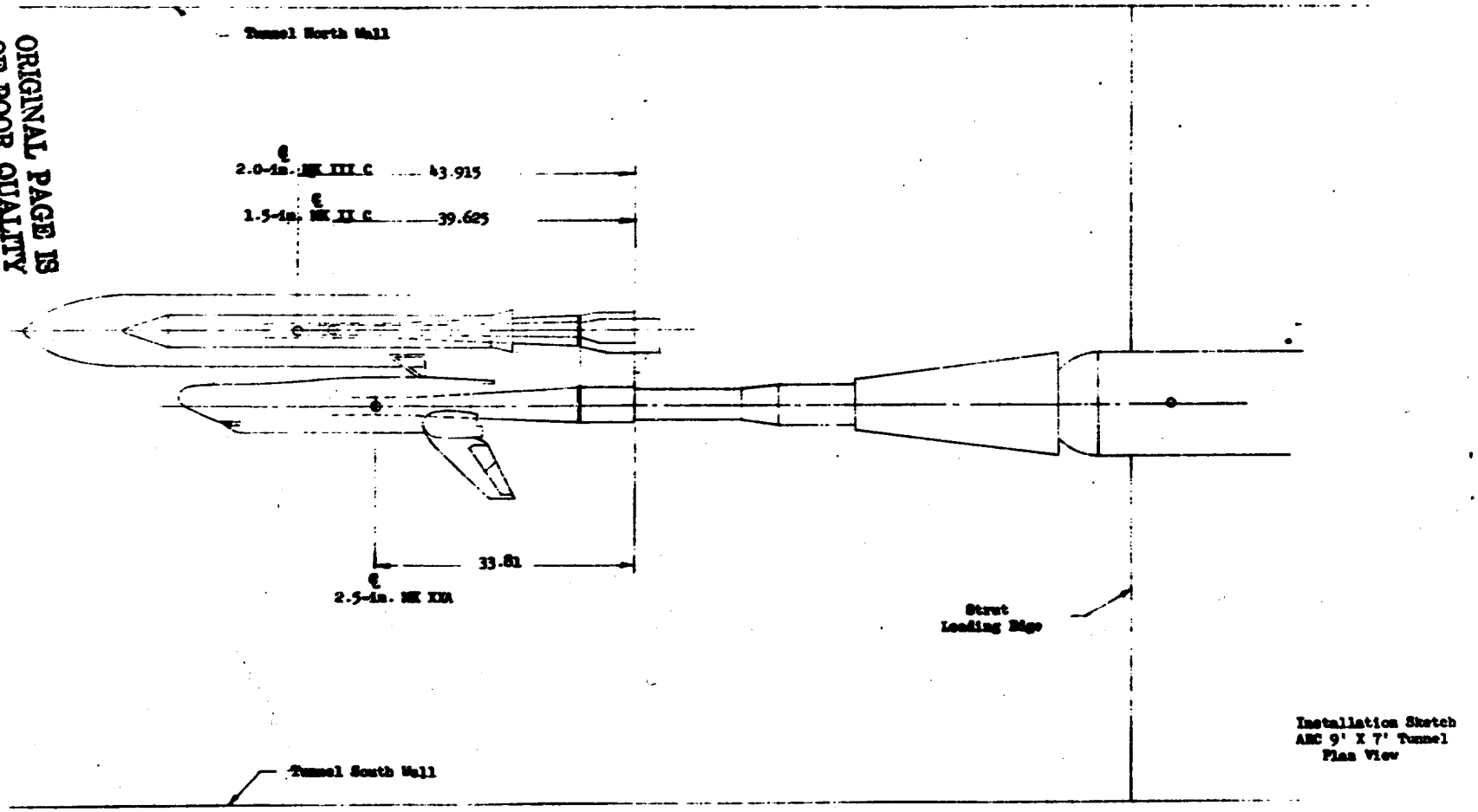
k. External Tank Aft Pressure Tap Locations

Figure 2. - Continued.



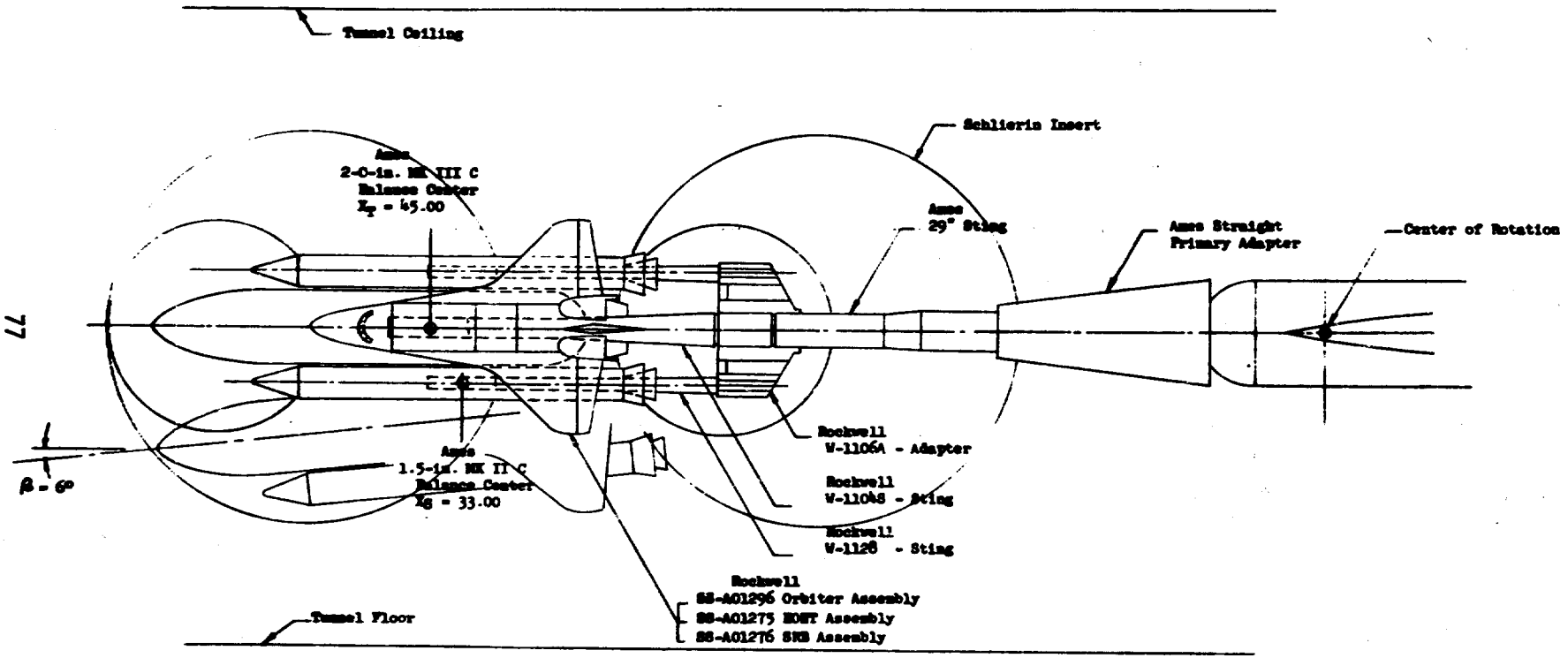
1. SRB Pressure Tap Locations

Figure 2. - Continued.



m. Model Installation Side View

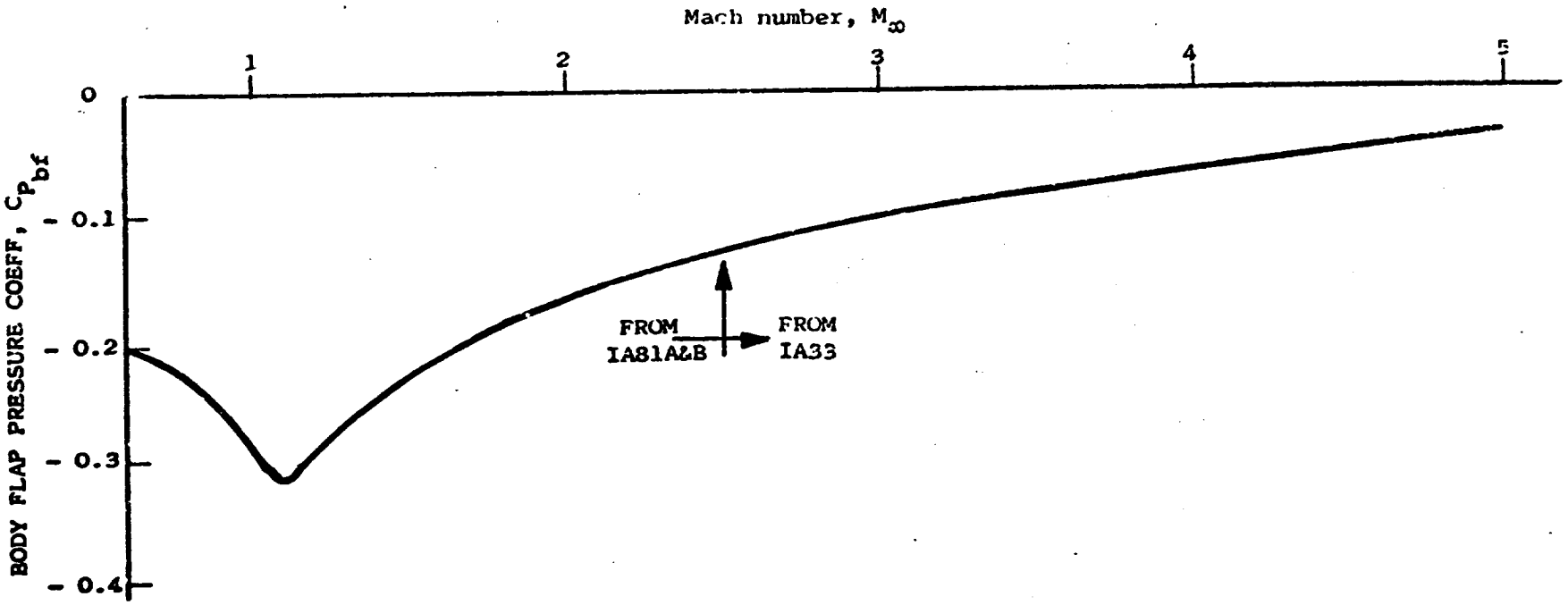
Figure 2. - Continued.



Installation Sketch
ARC 9' X 7' Tunnel
Side View Looking North

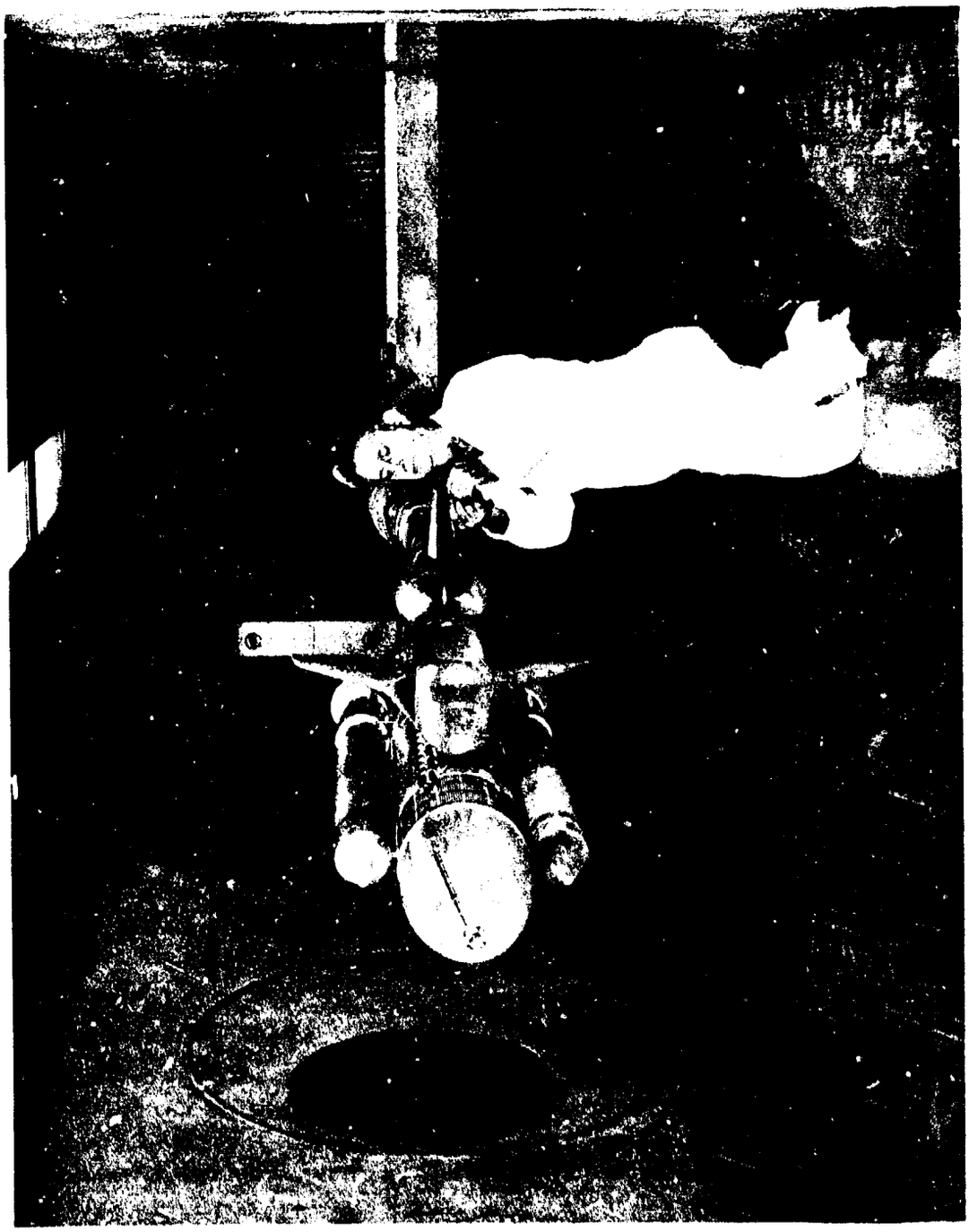
n. Model Installation Top View

Figure 2. - Continued.



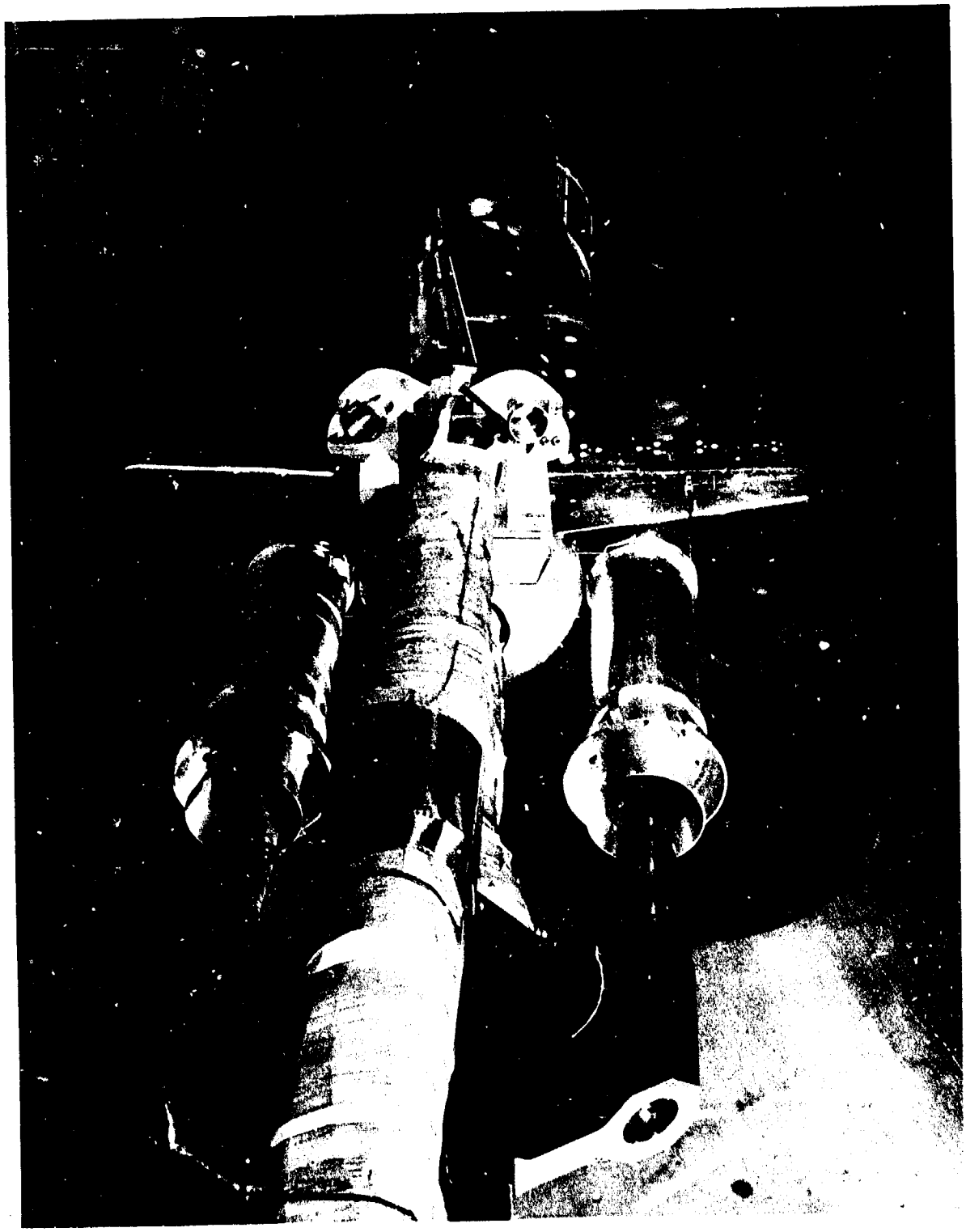
o. Orbiter Body Flap Pressure Coefficients

Figure 2. - Concluded.



a. Side View

Figure 3. - Model photographs.



b. Rear View

Figure 3. - Concluded.

APPENDIX

TABULATED SOURCE DATA

VOLUME 1			(Force)
VOLUME 3	Pages	1-728	(Pressure)
VOLUME 4	Pages	729-1459	(Pressure)
VOLUME 5	Pages	1460-2163	(Pressure)

Tabulations of plotted data may be obtained from Data Management Services upon request.

ARC97-019 IA81 LVAP(ALUHL SEALED) LEFT VERTICAL (RETV30) (12 OCT 74)

REFERENCE DATA

SREF = 2888.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.500 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = 55.000

BETAO (1) = .238 ALPHAO(1) = -8.381

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7747	.9221	.9381	.8708	.9027
.025	.0883	.0241	.0888	.0839	.0543
.050	.1508	.1195	.1388	.1234	.1035
.150	.3806	.2943	.1934	.1821	.1745
.300	.3822	.3793	.3404	.2234	.2070
.520	.2297	.2388	.3895	.8427	.4981
.685	-.0537	.0000	.6717	.7184	.1703
.775	-.0735	.4335	.0000	.8838	.1187
.900		.3581	.5577	.6293	.0281

BETAO (1) = .215 ALPHAO(2) = -4.338

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.0883	.0497	.0745	.0544	.0878
.025	.0486	.0217	.0807	.0798	.0523
.050	.1450	-.1081	.1257	.1154	.0985
.150	.3331	.2585	-.0422	.1048	.1588
.300	.3810	.3425	.3097	.0358	.1654
.520	.1988	.2032	.3395	.5624	.1783
.685	-.0572	.0000	.8008	.8857	.1515
.775	-.0808	.3777	.0000	.8481	.1059
.900		.3158	.5096	.8027	.0228

ARC97-019 (AB1 LVAP(ALL HL SEALED) LEFT VERTICAL (RETV30)

BETAO (1) = .182 ALPHAO(3) = -.118

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.6208	.7176	.7060	.7167	.7294
.025	-.0101	-.0249	.0114	.0330	.0130
.050	.0818	.0488	.0858	.0802	.0462
.150	.2458	.1359	.1054	.0980	.0883
.300	.2778	.2609	.2047	.1344	.1521
.520	.1382	.1373	.2473	.3000	.2408
.685	-.0873	.0000	.4958	.5185	.1027
.775	-.1045	.3032	.0000	.5556	.0585
.900		.2508	.4214	.5135	-.0108

BETAO (1) = .186 ALPHAO(4) = 4.056

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.5351	.5873	.6160	.5851	.5800
.025	-.0401	-.0475	-.0127	-.0016	-.0186
.050	.0135	.0167	.0331	.0179	.0045
.150	.1617	.0814	.0675	.0520	.0482
.300	.2288	.2195	.1534	.0855	.0968
.520	.0945	.1011	.2184	.2489	.1836
.685	-.1006	.0000	.4137	.4197	.0746
.775	-.1162	.2534	.0000	.4528	.0139
.900		.2021	.3446	.4191	-.0462

BETAO (1) = .200 ALPHAO(5) = 8.267

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.4730	.5240	.4974	.4730	.4739
.025	-.0240	.0071	.0517	.0083	-.0455
.050	.0430	.0887	.0523	.0188	-.0239
.150	.2587	.2953	.1584	.0582	.0354
.300	.1884	.1517	.1414	.1498	.0801
.520	.0501	.0948	.1681	.2825	.2568
.685	-.1221	.0000	.3085	.3538	.0272
.775	-.1308	.2009	.0000	.3529	-.0233
.900		.1890	.2818	.3354	-.0783

ARC97-010 1A81 LVAP(ALUM SEALED) LEFT VERTICAL (RETV30)

BETAO (1) = .218 ALPHAO(81) = 10.338

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.4453	.5167	.4446	.4148	.4269
.025	.0031	.1386	.0547	.0248	-.0383
.050	.0674	.1310	.0562	.0284	-.0051
.150	.3470	.2207	.1531	.0600	.0494
.300	.1501	.1191	.1229	.1338	.1252
.520	.0307	.0501	.1458	.2674	.2406
.685	-.1240	.0000	.3106	.3394	.0240
.775	-.1322	.1870	.0000	.3388	-.0273
.901		.1830	.2655	.3243	-.0818

ARC87-019 1A81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV31) (12 OCT 74)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.250 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPOBRK = 66.000

BETAO (1) = -.117 ALPHAO(1) = -8.403

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7637	.8594	.8802	.8952	.8708
.025	.0783	.2028	.1798	.1555	.0398
.050	.1932	.2070	.2098	.1885	.1170
.150	.4430	.4995	.3922	.3867	.3486
.300	.3912	.3443	.3443	.3878	.3478
.520	.2394	.2429	.5102	.8686	.8875
.685	-.0807	.0000	.8673	.7307	.1558
.775	-.1012	.4176	.0000	.7018	.0721
.900		.3391	.5465	.8033	-.0212

BETAO (1) = -.138 ALPHAO(2) = -4.308

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7033	.8005	.8121	.7942	.7989
.025	.0848	.1139	.1785	.1243	.0128
.050	.1656	.1130	.1708	.1314	.0868
.150	.3836	.4433	.3946	.3136	.2274
.300	.3525	.3087	.3111	.3285	.3105
.520	.2067	.2101	.4422	.8090	.5213
.685	-.0942	.0000	.8059	.6863	.1320
.775	-.1113	.3791	.0000	.8394	.0547
.900		.3058	.5048	.5818	-.0341

ARC87-019 IAB1 LVAP(ALL HL SEALED) LEFT VERTICAL (RETV31)

BETAO (1) = -.174 ALPHAO(3) = -.147

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.5841	.6048	.6804	.6881	.6888
.025	.0262	.0900	.1138	.0879	-.0164
.050	.1129	.0887	.1381	.0804	.0435
.150	.3081	.3792	.2803	.2442	.1889
.300	.2830	.2403	.2484	.2590	.2405
.520	.1386	.1422	.3437	.4944	.4228
.685	- 1231	.0000	.5010	.5509	.0872
.775	-.1375	.3037	.0000	.5339	.0178
.900		.2425	.4172	.4801	-.0639

BETAO (1) = -.187 ALPHAO(4) = 4.050

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.5857	.5924	.5794	.5381	.5413
.025	.0306	.1431	.1286	.1033	.0162
.050	.1244	.1487	.1421	.1018	.0513
.150	.3387	.3157	.2425	.2180	.1963
.300	.2339	.1993	.2043	.2109	.1898
.520	.0960	.1047	.2915	.4182	.3526
.685	-.1398	.0000	.4352	.4645	.0524
.775	-.1522	.2579	.0000	.4513	-.0123
.900		.2175	.3526	.4102	-.0872

BETAO (1) = -.139 ALPHAO(5) = 8.298

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.6125	.5383	.4816	.4544	.4385
.025	.0820	.1372	.0817	.0811	.0207
.050	.1913	.1982	.1095	.0858	.0587
.150	.2702	.2025	.1706	.1899	.1897
.300	.1244	.1408	.1823	.1755	.1837
.520	.0334	.0497	.2067	.3673	.3117
.685	-.1538	.0000	.3894	.4177	.0286
.775	-.1535	.2444	.0000	.4078	-.0322
.900		.1981	.3195	.3795	-.1024

ARC97-019 IAB1 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV31)

BETAO (1) = -.118 ALPHAO(6) = 10.383

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.5741	.5358	.4427	.4143	.4091
.025	.0252	.0608	.0492	.0671	.0045
.050	.1300	.1002	.0605	.0888	.0409
.150	.1747	.1832	.1689	.1703	.1779
.300	.0919	.0960	.1337	.1530	.1404
.520	.0343	.0520	.2071	.3469	.2930
.685	-.1508	.0000	.3662	.3905	.0264
.775	-.1481	.2270	.0000	.3784	-.0416
.900		.1753	.3032	.3513	-.1095

ARC87-019 1A81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETVJE) (12 OCT 74)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPOBRK = 55.000

BETAO (1) = .079 ALPHAO(1) = -8.373

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7891	.8183	.8480	.8207	.8331
.025	.0277	.3842	.1950	.1750	.0858
.050	.1822	.3754	.2067	.1764	.1351
.150	.5261	.4262	.3746	.3703	.3847
.300	.3649	.3138	.3391	.3668	.3443
.520	.2332	.2360	.5493	.6903	.5845
.685	-.1134	.0000	.6692	.7326	.1253
.775	-.1398	.4055	.0000	.6744	.0391
.900		.3290	.5421	.5536	-.0584

BETAO (1) = .053 ALPHAO(2) = -4.277

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7422	.7557	.7857	.7869	.7744
.025	.0137	.3005	.1701	.1555	.0682
.050	.1485	.2878	.1823	.1523	.1166
.150	.4351	.4173	.3410	.3384	.3308
.300	.3293	.2810	.3038	.3312	.3078
.520	.1972	.2025	.4968	.6391	.5317
.685	-.1282	.0000	.6288	.6750	.1071
.775	-.1498	.3853	.0000	.6216	.0235
.900		.3035	.5000	.5209	-.0712

ARC87-019 IAB1 LVAP(ALL HL SEALED) LEFT VERTICAL (RETV32)

BETAO (1) = .011 ALPHAO(3) = -.098

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.8498	.8507	.8598	.8381	.8504
.025	-.0185	.1729	.1241	.1201	.0423
.050	.1030	.1794	.1124	.1148	.0789
.150	.3289	.3635	.2829	.2872	.2681
.300	.2850	.2241	.2462	.2603	.2499
.520	.1350	.1496	.4154	.5452	.4470
.695	-.1548	.0000	.5511	.5770	.0680
.775	-.1685	.3061	.0000	.5394	-.0133
.900		.2494	.4282	.4585	-.0967

BETAO (1) = .030 ALPHAO(4) = 4.129

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.8178	.8889	.5770	.8441	.8217
.025	-.0207	.2038	.1083	.1026	.0420
.050	.0971	.1977	.1117	.1018	.0740
.150	.3050	.2874	.2287	.2287	.2253
.300	.2204	.1829	.2060	.2142	.2028
.520	.0936	.1068	.3477	.4656	.3866
.695	-.1782	.0000	.4819	.5079	.0462
.775	-.1744	.2697	.0000	.4791	-.0333
.900		.2125	.3784	.4222	-.1055

BETAO (1) = .053 ALPHAO(5) = 8.382

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.8138	.8608	.4738	.4849	.4486
.025	-.0188	-.0044	.0207	.0827	-.0025
.050	.0948	.0848	.0885	.0811	.0311
.150	.2409	.1885	.1787	.1839	.1798
.300	.1357	.1204	.1588	.1728	.1615
.520	.0408	.0582	.2789	.4068	.3406
.695	-.1826	.0000	.4217	.4386	.0219
.775	-.1733	.2358	.0000	.4180	-.0531
.900		.1782	.3328	.3711	-.1223

ARC97-019 1A81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV32)

BETAO (1) = .074 ALPHAO(8) = 10.484

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.8000	.8400	.9250
X/CV					
.000	.0511	.4888	.4438	.4180	.4098
.025	-.0373	-.0512	.0252	.0578	.0090
.050	.0893	-.0323	.0329	.0590	0374
.150	.1484	.1921	.1602	.1727	.1723
.300	.1114	.1098	.1477	.1588	.1463
.520	.0381	.0489	.2550	.3790	.3145
.685	-.1837	.0000	.3974	.4079	.0109
.775	-.1717	.2081	.0000	.3854	.0598
.900		.1535	.3045	.3424	-.1301

DATE. 06 OCT 76 IABIB - PRESSURE SOURCE DATA TABULATION (RETV33) (12 OCT 74)

ARC87-019 IAB1 LVAP(ALLHL SEALED) LEFT VERTICAL

REFERENCE DATA

SREF =	2888.0000 SQ.FT.	XMRP =	976.0000 IN. XT		
LREF =	1287.0000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1287.0000 INCHES	ZMRP =	400.0000 IN. ZT		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

MACH =	1.550	RN/FT =	3.000
ELV-IB =	.000	ELV-OB =	.000
RUDDER =	.000	SPDBRK =	65.000

BETAO (1) = .428 ALPHAO(1) = -6.390

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7956	.8277	.7825	.7437	.7612
.025	.2680	.1904	.0546	.0507	-.0331
.050	.4245	.3692	.0820	.0666	.0018
.150	.4789	.3316	.2765	.2832	.3012
.300	.3296	.2589	.2767	.4870	.5317
.520	.1618	.1732	.5641	.6830	.5204
.685	-.2353	.0000	.6361	.6523	-.0096
.775	-.1648	.3258	.0000	.5240	-.0916
.900		.2503	.4891	.3527	-.1553

BETAO (1) = .40; ALPHAO(2) = -4.271

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7488	.7883	.7220	.6931	.7063
.025	.1760	.1721	.0246	.0340	-.0408
.050	.3738	.3068	.0500	.0416	-.0096
.150	.4471	.3055	.2493	.2514	.2492
.300	.2932	.2334	.2449	.4281	.4792
.520	.1589	.1401	.5240	.5603	.4944
.685	-.2472	.0000	.5946	.6290	-.0216
.775	-.1616	.2990	.0000	5050	-.1091
.900		.2250	.4581	.3375	-.1720

AMC97-019 1AB1 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV33)

BETAO (1) = .348 ALPHAO(3) = -.038

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8881	.7882	.8350	.5875	.8103
.025	.0913	.1277	-.0067	.0083	-.0611
.050	.2887	.2365	.0181	-.0010	-.0215
.150	.3879	.2478	.1971	.2005	.1951
.300	.2339	.1827	.1921	.3034	.4028
.520	.1012	.0933	.4463	.4903	.4405
.685	-.2000	.0000	.5235	.5682	-.0272
.775	-.1702	.2438	.0000	.4647	-.1274
.900		.1783	.3912	.3132	-.1825

BETAO (1) = .386 ALPHAO(4) = 4.233

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8216	.6002	.5497	.5084	.5079
.025	-.1119	.0455	-.0334	-.0282	-.0999
.050	.1742	.0694	-.0065	-.0357	-.0610
.150	.2845	.1934	.1499	.1444	.1346
.300	.1729	.1360	.1371	.1874	.3194
.520	.0560	.0512	.3785	.4282	.3776
.685	-.2838	.0000	.4487	.4981	-.0429
.775	-.1708	.1916	.0000	.4144	-.1489
.900		.1301	.3281	.2817	-.1891

BETAO (1) = .483 ALPHAO(5) = 8.510

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.9587	.5388	.4823	.4186	.4221
.025	-.0434	.0720	-.0285	-.0340	-.0911
.050	.2552	.2150	-.0047	-.0060	-.0853
.150	.2802	.1644	.1019	.0915	.0888
.300	.1445	.0905	.0913	.1388	.2482
.520	.0224	.0090	.3074	.3526	.3130
.685	-.2931	.0000	.3772	.4257	-.0711
.775	-.1835	.1407	.0000	.3547	-.1644
.900		.0879	.2857	.2433	-.1888

ARC87-019 IAB: LVAP(ALLHL SEALED) LEFT VERTICAL (RETV34) (12 OCT 74)

REFERENCE DATA

SREF = 2888.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1287.0000 INCHES YMRP = .0000 IN. YT
BREF = 1287.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = 0.000 ELV-OB = -4.000
RUDDER = .000 SPOBRK = .000

BETAO (1) = .403 ALPHAO(1) = -8.282

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.7987	.8227	.7887	.7386	.6344
.025	.2549	.2013	.0592	.0684	-.0245
.050	.4211	.3008	.0946	.0000	.0358
.150	.4722	.3312	.2842	.2855	.2547
.300	.3258	.2575	.2908	.2827	.2570
.520	.1779	.1690	.2085	.2600	.2104
.885	-.2439	.0000	-.2803	-.2378	-.2479
.775	-.1794	-.2740	.0000	-.2342	-.2588
.900		-.2662	-.2426	-.2407	-.2548

BETAO (1) = .378 ALPHAO(2) = -4.209

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.7501	.7948	.7229	.6836	.5737
.025	.1807	.1739	.0381	.0443	-.0390
.050	.3798	.2493	.0538	.0000	.0185
.150	.4445	.3055	.2503	.2577	.2384
.300	.2917	.2275	.2626	.2360	.2328
.520	.1577	.1375	.1856	.2289	.1877
.885	-.2528	.0000	-.2882	-.2401	-.2629
.775	-.1860	-.2853	.0000	-.2417	-.2721
.900		-.2745	-.2527	-.2580	-.2672

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV34)

BETAO (1) = .358 ALPHAO(3) = -2.124

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6086	.7510	.6831	.6340	.5259
.025	.0994	.1487	.0101	.0222	-.0550
.050	.3269	.2329	.0320	.0000	-.0171
.150	.4103	.2756	.2219	.2245	.2166
.300	.2810	.2011	.2369	.2138	.2062
.520	.1279	.1083	.1547	.1975	.1818
.685	-.2643	.0000	-.2975	-.2450	-.2766
.775	-.1871	-.2952	.0000	-.2528	-.2874
.900		-.2770	-.2646	-.2691	-.2780

BETAO (1) = .342 ALPHAO(4) = -.027

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8635	.7087	.6339	.5875	.4880
.025	.0478	.1312	-.0007	.0013	-.0695
.050	.2936	.1867	.0185	.0000	-.0246
.150	.3812	.2431	.1958	.2013	.1931
.300	.2306	.1773	.2165	.1990	.1892
.520	.0995	.0849	.1329	.1698	.1471
.685	-.2731	.0000	-.3040	-.2665	-.2957
.775	-.1762	-.3037	.0000	-.2610	-.2968
.900		-.2619	-.2751	-.2798	-.2888

BETAO (1) = .346 ALPHAO(5) = 2.059

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8350	.8834	.8840	.8483	.4833
.025	-.0888	.1002	-.0170	.0000	-.0710
.050	.0287	.1300	-.0053	.0000	-.0334
.150	.3370	.2136	.1800	.1742	.1757
.300	.1888	.1535	.1874	.1884	.1793
.520	.0791	.0708	.1184	.1550	.1375
.685	-.2801	.0000	-.3088	-.2701	-.2884
.775	-.1781	-.3084	.0000	-.2642	-.2881
.900		-.2528	-.2829	-.2740	-.2910

ARC87-019 !ABI LVAP(ALLHL SEALED) LEFT VERTICAL (RETV34)

BETAO (1) = .356 ALPHAO(8) = 3.707

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6180	.6073	.5518	.4880	.4192
.025	-.0849	.0551	-.0190	-.0183	-.0579
.050	.1839	.0509	-.0306	.0000	-.0408
.150	.2792	.1857	.1463	.1478	.1446
.300	.1684	.1295	.1676	.1350	.1523
.520	.0538	.0432	.0904	.1270	.1072
.685	-.2808	.0000	-.3198	-.2726	-.2906
.775	-.1743	-.3214	.0000	-.2690	-.3045
.900		-.2317	-.2968	-.2822	-.2996

BETAO (1) = .389 ALPHAO(7) = 8.242

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5680	.5710	.5126	.4524	.3780
.025	-.0698	.0425	-.0240	-.0259	-.0755
.050	.2047	.0412	-.0334	.0000	-.0567
.150	.2560	.1733	.1258	.1222	.1181
.300	.1512	.1088	.1438	.1122	.1244
.520	.0340	.0240	.0687	.1000	.0752
.685	-.2775	.0000	-.3289	-.2776	-.3082
.775	-.1698	-.3289	.0000	-.2893	-.3237
.900		-.2195	-.3058	-.3104	-.3195

ARCW7-018 IA81 LVAP(ALUM SEALED) LEFT VERTICAL (RETV35) (04 SEP 76)

REFERENCE DATA

SREF = 8880.0000 SQ.FT. XMRP = 870.0000 IN. XT
LREF = 1897.0000 INCHES YMRP = .0000 IN. YT
BREF = 1897.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.880 RN/FT = 8.500
ELV-IB = 0.000 ELV-OB = -4.000
RUDDER = .000 SPOBRK = .000

ALPHAO(1) = -6.333 BETAO (1) = -3.794

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8480	.9250
X/CV					
.000	.7908	.7471	.7188	.7320	.7178
.025	.6243	.5863	.5256	.6359	.5630
.050	.6358	.5807	.5205	.5275	.5243
.150	.5655	.4802	.4527	.4877	.4453
.300	.4226	.3817	.4149	.4223	.3833
.520	.2753	.2909	.3123	.3153	.2143
.685	-.2137	.0100	-.2 17	-.2159	-.2390
.775	-.1998	-.2497	.0000	-.1899	-.2561
.900		-.2290	-.1915	-.2214	-.2429

ALPHAO(1) = -8.319 BETAO (2) = -1.883

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.010	.8208	.8094	.7622	.7535	.6952
.025	.4735	.4432	.3484	.3582	.3065
.050	.5828	.4929	.4020	.3979	.3698
.150	.5324	.4154	.3894	.3800	.3658
.300	.3855	.3206	.3634	.3596	.3358
.520	.2294	.2133	.2698	.3157	.2037
.685	-.2305	.0000	-.2609	-.2262	-.2493
.775	-.1878	-.2488	.0000	-.2140	-.2670
.900		-.2472	-.2123	.0337	-.2580

ARC67-018 IABI LVAP(ALL HL SEALED) LEFT VERTICAL (RETV35)

ALPHAO(1) = -6.000 BETAO (3) = .391

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8000	.8384	.7887	.7382	.6305
.025	.2634	.1908	.0623	.0645	-.0128
.050	.4173	.2934	.0960	.0562	.0232
.150	.4773	.3349	.2049	.2885	.2726
.300	.3317	.2587	.2929	.2683	.2568
.520	.1830	.1852	.2091	.2811	.2007
.685	-.2391	.0000	-.2734	-.2341	-.2492
.775	-.1720	-.2723	.0000	-.2309	-.2653
.900		-.2630	-.2408	-.2447	-.2512

ALPHAO(1) = -6.288 BETAO (4) = 2.522

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.153(	.3160	.6000	.8400	.9250
X/CV					
.000	.8036	.8014	.7390	.6928	.5572
.025	.1346	.0013	-.2066	-.2361	-.3353
.050	.2493	.0283	-.2043	-.2432	-.2642
.150	.3514	.2506	.1404	-.0642	-.1203
.300	.2815	.1939	.1878	.1773	.1958
.520	.1372	.1009	.1346	.1913	.1833
.685	-.2381	.0000	-.2831	-.2494	-.2555
.775	-.1690	-.2940	.0000	-.2494	-.2668
.900		-.2561	-.2728	-.0173	-.2632

ALPHAO(1) = -6.042 BETAO (5) = 4.387

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7603	.6872	.6812	.6348	.4738
.025	.0375	.0211	-.3125	-.3453	-.3597
.050	.0887	.0160	-.3112	-.3283	-.3691
.150	.1176	.0485	-.0772	-.2354	-.2338
.300	.2420	.0427	.0472	-.1270	-.1256
.520	.1025	.0299	.0485	.1776	.1183
.685	-.2538	.0000	-.2630	-.2570	-.2470
.775	-.1722	-.2772	.0000	-.2486	-.2544
.900		-.2251	-.2656	- 0280	-.2531

ARC97-010 (ABI LVAP(ALLHL SEALED) LEFT VERTICAL (RETV35)

ALPHAO(2) = -4.215 BETAO (1) = -5.870

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8460	.9250
X/CV					
.000	.7224	.6203	.6828	.6704	.6731
.025	.6735	.6419	.6054	.5993	.6027
.050	.6554	.6065	.5741	.0000	.5742
.150	.5620	.5005	.4827	.4995	.4729
.300	.4374	.4006	.4610	.4520	.4102
.520	.2873	.3112	.3344	.3098	.1971
.685	-.2135	.0000	-.2279	-.1937	-.2362
.775	-.2135	-.2049	.0000	-.1837	-.2450
.900		-.2033	-.1718	-.2112	-.2252

ALPHAO(2) = -4.211 BETAO (2) = -3.827

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7450	.6546	.6849	.6788	.6835
.025	.5686	.5570	.4992	.5101	.4989
.050	.5847	.5400	.4946	.0000	.4995
.150	.5039	.4465	.4213	.4365	.4327
.300	.3887	.3528	.3919	.3974	.3697
.520	.2467	.2614	.2918	.2910	.1841
.685	-.2233	.0000	-.2458	-.2134	-.2449
.775	-.1865	-.2354	.0000	-.2001	-.2611
.900		-.2354	-.1688	-.2230	-.2481

ALPHAO(2) = -4.184 BETAO (3) = 385

SECTION (1) LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7448	.7056	.7294	.6884	.5815
.025	.1803	.1751	.0298	.0528	-.0413
.050	.3712	.2570	.0562	.0000	.0097
.150	.4434	.3037	.2500	.2539	.2343
.300	.2925	.2310	.2602	.2384	.2333
.520	.1561	.1381	.1847	.2308	.1823
.685	-.2749	.0000	-.2800	-.2463	-.2819
.775	-.1821	-.2038	.0000	-.2408	-.2782
.900		-.2708	-.2528	-.2508	-.2648

ARC97-019 IA91 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV35)

ALPHAO(2) = -4.155 BETAO (4) = 4.581

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7135	.6450	.6337	.5829	.4341
.025	-.0121	-.0478	-.2244	-.3217	-.4000
.050	.0285	-.0634	-.2543	.0000	-.3584
.150	.0849	-.0184	-.0809	-.2280	-.2406
.300	.1945	.0338	.0328	.0004	-.1125
.520	.0863	.0763	.0218	.1042	.1093
.685	-.2359	.0000	-.2783	-.2820	-.2523
.775	-.1716	-.2828	.0000	-.2790	-.2807
.900		-.2367	-.2753	-.2780	-.2816

ALPHAO(2) = -4.139 BETAO (5) = 6.623

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7027	.6243	.6224	.5298	.3703
.025	-.0277	-.0749	-.2376	-.3805	-.4346
.050	-.0095	-.0885	-.2545	.0000	-.4356
.150	-.0212	-.0572	-.1549	-.3233	-.3280
.300	.1849	-.0331	-.0851	-.1883	-.2373
.520	.0805	-.0250	-.1175	-.0187	-.0789
.685	-.2714	.0000	-.3350	-.3550	-.3267
.775	-.1873	-.3087	.0000	-.3498	-.3410
.900		-.2691	-.3246	-.3462	-.3442

ALPHAO(3) = -2.110 BETAO (1) = -5.871

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6816	.5875	.6298	.6234	.6195
.025	.6125	.5920	.5950	.5604	.5587
.050	.6014	.5819	.5270	.0000	.5323
.150	.5084	.4586	.4491	.4602	.4386
.300	.3922	.3605	.4320	.4139	.3862
.520	.2540	.2722	.3067	.2863	.1880
.685	-.2372	.0000	-.2397	-.2174	-.2246
.775	-.2238	-.2181	.0000	-.2025	-.2530
.900		-.2243	-.1874	-.2154	-.2383

ARC87-019 IABI LVAP(ALLHL SEALED) LEFT VERTICAL (RETV35)

ALPHAO(3) = -2.109 BETAO (2) = -1.724

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7181	.7306	.6908	.6483	.5847
.025	.2786	.3784	.2859	.2952	.2644
.050	.4840	.4347	.3395	.0000	.3115
.150	.4289	.3573	.3085	.3159	.3083
.300	.3143	.2852	.3321	.2911	.3022
.520	.1814	.1668	.2210	.2560	.1873
.685	-.2685	.0000	-.2783	-.2423	-.2459
.775	-.1869	-.2702	.0000	-.2306	-.2818
.900		-.2767	-.2382	-.2553	-.2751

ALPHAO(3) = -2.081 BETAO (3) = 2.471

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	-.2253	.5850	.4521	.0000	.0000
.025	-.2320	-.2536	-.3595	.0000	.0000
.050	.0838	.0000	-.2958	.0000	.0000
.150	.1744	-.1262	-.1548	.0000	.0000
.300	.0956	.1226	.1440	.0000	.0000
.520	-.3018	.1357	.1363	.0000	.0000
.685	.0000	-.2783	-.2632	.0000	.0000
.775	-.2967	-.2690	-.2815	.0000	.0000
.900		-.2785	-.2831	.0000	.0000

ALPHAO(3) = -2.052 BETAO (4) = 6.607

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.0546	.5889	.5880	.4902	.3405
.025	-.0685	-.1210	-.2411	-.3842	-.4409
.050	-.0404	-.1348	-.2533	.0000	-.4334
.150	-.0391	-.1070	-.1727	-.3291	-.3379
.300	.1295	-.0557	-.1005	-.1727	-.2484
.520	.0425	-.0235	-.1418	-.0870	-.0870
.685	-.2720	.0000	-.3419	-.3721	-.3472
.775	-.1901	-.3181	.0000	-.3827	-.3488
.900		-.2736	-.3329	-.3558	-.3537

DATE. 08 OCT 75 IABIB - PRESSURE SOURCE DATA TABULATION (RETV35)

ARC97-019 IABI LVAP(ALLHL SEALED) LEFT VERTICAL

ALPHAO(4) = .004 BETAO (1) = -8.878

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6606	.5704	.5038	.5022	.5818
.025	.5424	.5398	.5101	.5056	.4989
.050	.5382	.5141	.4891	.0000	.4970
.150	.4606	.4167	.4135	.4205	.4037
.300	.3584	.3248	.3983	.3780	.3573
.520	.2218	.2389	.2795	.2712	.1731
.685	-.2537	.0000	-.2504	-.2283	-.2389
.775	-.2194	-.2340	.0000	-.2076	-.2600
.900		-.2375	-.2049	-.2357	-.2486

ALPHAO(4) = .007 BETAO (2) = -3.838

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6732	.5782	.5984	.5884	.6033
.025	.4723	.4829	.4288	.4373	.4187
.050	.5068	.4668	.4232	.0000	.4343
.150	.4312	.3740	.3553	.3733	.3650
.300	.3073	.2833	.3395	.3380	.3277
.520	.1822	.2026	.2412	.2542	.1638
.685	-.2673	.0000	-.2654	-.2402	-.2563
.775	-.1891	-.2589	.0000	-.2205	-.2673
.900		-.2595	-.2273	-.2486	-.2644

ALPHAO(4) = .019 BETAO (3) = .354

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6827	.7104	.6342	.5815	.4959
.025	.0482	.1291	.0000	.0048	-.0551
.050	.2875	.1705	.0174	.0000	-.0260
.150	.3792	.2471	.1937	.1973	.1931
.300	.2288	.1719	.2589	.1860	.2030
.520	.1002	.0848	.1382	.1699	.1214
.685	-.2748	.0000	-.3038	-.2751	-.2728
.775	-.1799	-.3038	.0000	-.2625	-.2980
.900		-.2898	-.2784	-.2812	-.2899

ARC97-019 1A31 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV35)

ALPHAO(4) = .011 BETAO (4) = 4.521

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.8171	.5777	.5852	.5174	.3790
.025	-.0789	-.1063	-.1985	-.3191	-.4017
.050	-.0337	-.1137	-.2249	.0000	-.3551
.150	-.0005	-.0690	-.0490	-.2320	-.2489
.300	.1885	.0906	.0371	.0210	-.0567
.520	.0551	.0577	0148	.0757	.0984
.685	-.2538	.0000	-.3075	-.2938	-.2679
.775	-.1712	-.3094	.0000	-.2906	-.2944
.900		-.2514	-.2936	-.2954	-.2941

ALPHAO(4) = .022 BETAO (5) = 6.587

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.8157	.5580	.5288	.4527	.3274
.025	-.0796	-.1960	-.2649	-.3922	-.4451
.050	-.0537	-.2031	-.2717	.0000	-.4409
.150	-.0537	-.1663	-.2063	-.3397	-.3481
.300	.0185	-.0858	-.1148	-.2105	-.2582
.520	.0205	-.0174	-.1605	-.0750	-.0939
.685	-.2951	.0000	-.3487	-.3787	-.3520
.775	-.2054	-.3284	.0000	-.3722	-.3811
.900		-.2669	-.3381	-.3866	-.3873

ALPHAO(5) = 2.066 BETAO (1) = -6.666

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.8171	.5328	.5532	.5449	.5368
.025	.4914	.4939	.4894	.4706	.4443
.050	.4911	.4752	.4471	.0000	.4555
.150	.4179	.3817	.3772	.3868	.3891
.300	.3237	.2912	.3881	.3438	.3263
.520	.1973	.2083	.2538	.2538	.1577
.685	-.2588	.0000	-.2809	-.2329	-.2509
.775	-.2138	-.2478	.0000	-.2178	-.2685
.900		-.2448	-.2181	-.2474	-.2592

ARC97-01W IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV35)

ALPHAO(5) = 2.083 BETAO (2) = -1.748

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6528	.6437	.6037	.5811	.5162
.025	.1238	.2624	.2147	.2383	.1858
.050	.3151	.3612	.2608	.0000	.2513
.150	.2900	.2862	.2448	.2541	.2456
.300	.2228	.2020	.2805	.2265	.2428
.520	.1114	.1048	.1702	.1980	.1293
.685	-.2812	.0000	-.2981	-.2635	-.2725
.775	-.1809	-.2990	.0000	-.2517	-.2993
.900		-.2808	-.2639	-.2779	-.2938

ALPHAO(5) = 2.078 BETAO (3) = 2.458

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6232	.6406	.5695	.5020	.3933
.025	-.0983	.0049	-.2177	-.2554	-.3598
.050	.0672	-.0168	-.2346	.0000	-.3032
.150	.2454	.1268	.0404	-.0845	-.1507
.300	.1591	.0988	.1335	.0749	.1013
.520	.0170	.0094	.0605	.0815	.0726
.685	-.1935	.0000	-.3269	-.2981	-.2907
.775	-.1584	-.3132	.0000	-.2891	-.3070
.900		-.2180	-.3180	-.3032	-.3048

ALPHAO(5) = 2.104 BETAO (4) = 8.587

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5738	.5056	.4618	.4022	.2947
.025	-.0549	-.2098	-.2777	-.3942	-.4477
.050	-.0350	-.2213	-.2858	.0000	-.4388
.150	-.0808	-.1758	-.2218	-.3521	-.3580
.300	.0486	-.0711	-.1254	-.2074	-.2728
.520	-.0453	-.0458	-.1040	-.0990	-.1094
.685	-.2300	.0000	-.3469	-.3820	-.3526
.775	-.1999	-.3042	.0000	-.3779	-.3686
.900		-.2482	-.3444	-.3679	-.3718

ARC97-019 1A81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV351)

ALPHAO(6) = 4.193 BETAO (1) = -5.872

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6391	.5031	.5208	.5007	.4938
.025	.4437	.4533	.4296	.4287	.4036
.050	.4536	.4377	.4121	.0000	.4113
.150	.4009	.3516	.3423	.3487	.3345
.300	.3010	.2671	.3337	.3062	.2997
.520	.1771	.1760	.2217	.2210	.1328
.685	-.2997	.0000	-.2720	-.2421	-.2562
.775	-.2515	-.2441	.0000	-.2279	-.2749
.900		-.2566	-.2323	-.2569	-.2678

ALPHAO(6) = 4.191 BETAO (2) = -3.831

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5844	.5079	.5454	.5268	.5019
.025	.3298	.3833	.3459	.3462	.3108
.050	.4028	.3782	.3456	.0000	.3419
.150	.3535	.2965	.2885	.3003	.2922
.300	.2549	.2198	.2769	.2679	.2631
.520	.1245	.1377	.1890	.2054	.1319
.685	-.2682	.0000	-.2842	-.2590	-.2648
.775	-.1777	-.2806	.0000	-.2426	-.2890
.900		-.2475	-.2530	-.2684	-.2832

ALPHAO(6) = 4.197 BETAO (3) = .381

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6208	.8090	.9847	.4978	.4193
.025	-.0918	.0548	-.0237	-.0194	-.0788
.050	.1856	.0567	-.0312	.0000	-.0555
.150	.2838	.1934	.1478	.1485	.1394
.300	.1730	.1330	.2120	.1388	.1619
.520	.0584	.0445	.0981	.1231	.0834
.685	-.2798	.0000	-.3213	-.2888	-.2989
.775	-.1735	-.3223	.0000	-.2807	-.3153
.900		-.2350	-.2991	-.3014	-.3098

ARC87-019 !A81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV35)

ALPHAO(8) = 4.208 BETAO (4) = 4.530

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5431	.5303	.5107	.4395	.3338
.025	-.0235	-.1273	-.2135	-.3245	-.4037
.050	.0039	-.1453	-.2409	.0000	-.3805
.150	.1180	-.0542	-.0823	-.2398	-.2553
.300	.0832	.0681	.0259	.0124	-.0186
.520	-.0248	-.0153	-.0072	.0509	.0689
.685	-.1988	.0000	-.3239	-.3130	-.2888
.775	-.1872	-.2772	.0000	-.3082	-.3108
.900		-.2251	-.3200	-.3146	-.3124

ALPHAO(6) = 4.216 BETAO (5) = 8.589

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.5000	.8400	.9250
X/CV					
.000	.6084	.4899	.4445	.3822	.2666
.025	.0429	-.1696	-.2809	-.3892	-.4470
.050	.0684	-.1857	-.2890	.0000	-.4264
.150	.0329	-.1378	-.2107	-.3460	-.3660
.300	-.0222	-.0386	-.1317	-.1997	-.2675
.520	-.0606	-.0911	-.1449	-.1154	-.0986
.665	-.2331	.0000	-.3502	-.3750	-.3495
.775	-.2163	-.2861	.0000	-.3725	-.3744
.900		-.2393	-.3544	-.3618	-.3705

ALPHAO(7) = 6.319 BETAO (1) = -3.811

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6198	.4798	.5124	.4906	.4574
.025	.3598	.3825	.3017	.3078	.2678
.050	.3833	.3516	.3101	.0000	.3065
.150	.3356	.2722	.2571	.2867	.2818
.300	.2250	.2037	.2558	.2365	.2387
.520	.1167	.1247	.1838	.1812	.1186
.885	-.3097	.0000	-.2940	-.2833	-.2678
.775	-.2045	-.2730	.0000	-.2472	-.2912
.900		-.2711	-.2843	-.2729	-.2858

ARC87-018 IAS1 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(7) = 8.316 BETAO (2) = -1.718

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6825	.5871	.5084	.4880	.4314
.025	.0538	.1958	.1410	.1741	.1317
.050	.2877	.2816	.2005	.0000	.1953
.150	.2568	.2233	.1834	.1924	.1866
.300	.1746	.1452	.2316	.1693	.1738
.520	.0632	.0588	.1170	.1366	.0878
.685	-.2884	.0000	-.3152	-.2886	-.2880
.775	-.1823	-.3142	.0000	-.2722	-.3154
.900		-.2489	-.2888	-.2999	-.3109

ALPHAO(7) = 8.316 BETAO (3) = .374

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6046	.5739	.5119	.4538	.3903
.025	-.0772	.0393	-.0302	-.0379	-.0788
.050	.2016	.0325	-.0379	.0000	-.0613
.150	.2542	.1758	.1264	.1177	.1177
.300	.1528	.1113	.1838	.1087	.1438
.520	.0383	.0256	.0738	.1068	.0848
.685	-.2778	.0000	-.3308	-.2929	-.2988
.775	-.1688	-.3299	.0000	-.2887	-.3214
.900		-.2220	-.3096	-.3088	-.3172

ALPHAO(7) = 8.321 BETAO (4) = 2.475

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5884	.5572	.4886	.4113	.3231
.025	-.0300	-.0803	-.2112	-.2484	-.3504
.050	.0958	-.0794	-.2286	.0000	-.3098
.150	.2086	.1048	.0071	-.0708	-.1393
.300	.1080	.0532	.1013	.0306	.0499
.520	-.0238	-.0274	.0266	.0360	.0583
.685	-.1960	.0000	-.3480	-.2883	-.2841
.775	-.1718	-.2947	.0000	-.2787	-.2938
.900		-.2020	-.3241	-.2818	-.2996

ARC97-019 IABI LVAP(ALL HL SEALED) LEFT VERTICAL (RETV35)

ALPHAO(7) = 8.324 BETAO (5) = 4.539

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	-.1945	-.2888	.0000	.5155	.4870
.025	-.0113	-.2208	.6035	-.0527	-.2249
.050	-.0494	.0241	.0222	-.0690	-.2453
.150	-.0407	.0482	.0695	.0173	-.0395
.300	-.0346	.1412	.1847	.0578	.0702
.520	-.0321	.1431	.0944	-.0331	.0083
.685	-.1272	.3098	-.0287	.0000	-.3435
.775	-.2448	.3547	-.2190	-.2782	.0000
.900		.4252	-.2075	-.2303	-.3368

ARC97-019 IAB1 LVAP(ALUM. SEALED) LEFT VERTICAL (RETV38) (12 OCT 74)

REFERENCE DATA

SREF = 2888.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = -4.000
RUDDER = .000 SPOBRK = .000

ALPHAO(1) = -6.384 BETAO (1) = -4.180

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.8048	.8014	.8092	.8183	.7738
.025	.5330	.6466	.5742	.5700	.5150
.050	.5778	.6381	.5723	.0000	.5582
.150	.5089	.5216	.5082	.5245	.5017
.300	.4421	.4153	.4885	.4888	.4843
.520	.3297	.3284	.4052	.4286	.4055
.885	-.0848	.0000	-.0581	-.0353	-.0229
.775	-.0982	-.0630	.0000	-.0108	-.0506
.900		-.0874	-.0320	-.0389	-.0474

ALPHAO(1) = -6.341 BETAO (2) = -2.050

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.7985	.8523	.8407	.8224	.7839
.025	.2768	.5151	.4237	.3870	.3258
.050	.4498	.5712	.4789	.0000	.4107
.150	.5806	.4704	.4351	.4568	.4406
.300	.4094	.3584	.4344	.4250	.4305
.520	.2827	.2845	.3317	.4182	.3587
.885	-.0979	.0000	-.0814	-.0374	-.0348
.775	-.1174	-.0788	.0000	-.0322	-.0881
.900		-.1042	-.0554	-.0531	-.0704

ARC97-01B !AB1 LVAP(ALUM. SEALED) LEFT VERTICAL (RETV36)

ALPHAO(1) = -6.322 BETAO (3) = .082

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7842	.8336	.8344	.8178	.7802
.025	.0339	.3869	.1811	.1772	.0914
.050	.1725	.3637	.1853	.0000	.1519
.150	.5114	.4318	.3581	.3689	.3787
.300	.3866	.3197	.4144	.3454	.3771
.520	.2300	.2352	.2988	.3535	.3227
.685	-.1128	.0000	-.0938	-.0623	-.0728
.775	-.1384	-.1074	.0000	-.0574	-.0748
.900		-.1280	-.0833	-.0633	-.0873

ALPHAO(1) = -6.382 BETAO (4) = 2.174

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7886	.0541	.0156	.7902	.7052
.025	-.0532	.0842	-.0191	-.0595	-.1010
.050	.0623	.0963	-.0119	.0000	-.0486
.150	.3307	.3021	.2287	.0830	.0763
.300	.3363	.2887	.3008	.2382	.1894
.520	.1877	.1811	.2160	.2834	.2824
.685	-.1296	.0000	-.1136	-.0853	-.0781
.775	-.1522	-.1299	.0000	-.0862	-.0928
.900		-.1462	-.1039	-.0895	-.0941

ALPHAO(1) = -6.286 BETAO (5) = 4.251

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7705	.7886	.7817	.7333	.6452
.025	-.0113	-.0418	-.1244	-.1516	-.1612
.050	.0585	-.0389	-.1126	.0000	-.1563
.150	.1188	.1086	-.0207	-.0387	-.0484
.300	.2185	.1809	.2050	.0071	.0218
.520	.1985	.1275	.1108	.0832	.0448
.685	-.1553	.0000	-.1391	-.1350	-.1675
.775	-.1671	-.1535	.0000	-.1301	-.1601
.900		-.1627	-.1478	-.1310	-.1402

ARC87-019 IAGI LVAP(ALLHL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(2) = -4.273 BETAO (1) = -6.247

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7300	.6744	.6000	.7312	.7410
.025	.6283	.7000	.6411	.6531	.6290
.050	.6062	.6060	.6114	.6090	.6370
.150	.6100	.5304	.5240	.5623	.5517
.300	.4400	.4350	.3624	.5110	.5200
.520	.3310	.3366	.4340	.4775	.3690
.685	-.0857	.0000	-.0510	-.0132	-.0361
.775	-.0932	-.0542	.0000	-.0100	-.0489
.900		-.0797	-.0141	-.0423	-.0453

ALPHAO(2) = -4.266 BETAO (2) = -4.183

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7450	.7602	.7405	.7554	.7225
.025	.4870	.6046	.5340	.5360	.4894
.050	.5150	.6020	.5334	.0000	.6232
.150	.5276	.4695	.4630	.4836	.4823
.300	.4046	.3796	.4007	.4378	.4316
.520	.2924	.2932	.3727	.3955	.3542
.685	-.1015	.0000	-.0671	-.0341	-.0498
.775	-.1155	-.0814	.0000	-.0325	-.0688
.900		-.1045	-.0456	-.0603	-.0596

ALPHAO(2) = -4.235 BETAO (3) = .039

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7300	.7000	.7717	.7400	.6000
.025	.0070	.2742	.1404	.1405	.0453
.050	.1427	.2740	.1537	.0000	.1100
.150	.4107	.4103	.3177	.3327	.3201
.300	.3271	.2015	.2052	.3110	.3362
.520	.1930	.1901	.2020	.3040	.2014
.685	-.1322	.0000	-.1040	-.0024	-.0941
.775	-.1940	-.1235	.0000	-.0700	-.1033
.900		-.1431	-.1004	-.0003	-.1000

ARC97-010 1A91 LVAP(ALL%L SEALED) LEFT VERTICAL (RETV38)

ALPHAO(2) = -4.200 BETAO (4) = 4.834

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.7185	.7388	.6850	.6725	.6968
.025	-.0411	-.0808	-.1778	-.1654	-.1711
.050	.0187	-.0895	-.1451	.0000	-.1668
.150	.0711	.0540	-.0952	-.0871	-.0723
.300	.1489	.1120	.2246	-.0278	-.0095
.520	.1123	.0895	.1178	.0222	.0131
.685	-.1705	.0000	-.1575	-.1825	-.1835
.775	-.1746	-.1680	.0000	-.1675	-.1854
.900		-.1784	-.1673	-.1423	-.1632

ALPHAO(2) = -4.192 BETAO (5) = 6.302

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6850	.6581	.6393	.5964	.5391
.025	-.0628	-.0824	-.1494	-.2078	-.2073
.050	-.0680	-.0860	-.1575	.0000	-.2185
.150	-.0654	-.0942	-.0861	-.1373	-.1392
.300	-.0627	-.0495	.1212	-.1001	-.0986
.520	.1037	-.0453	-.0668	-.0593	-.0656
.685	-.1861	.0000	-.1980	-.2299	-.2208
.775	-.1881	-.1863	.0000	-.2319	-.2267
.900		-.1990	-.2052	-.2260	-.2260

ALPHAO(3) = -2.186 BETAO (1) = -6.258

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.6752	.6404	.6122	.6654	.6789
.025	.5687	.6851	.5633	.6084	.5897
.050	.5449	.6242	.5637	.0000	.5978
.150	.5678	.4909	.4851	.5198	.5164
.300	.3929	.3978	.3144	.4711	.4259
.520	.2950	.3033	.[illegible]	.4823	.3376
.685	-.1088	.0000	-.0813	-.0987	-.0474
.775	-.1198	-.0704	.0000	-.0173	-.0008
.900		-.0988	-.0388	-.0510	-.0985

ARC97-019 IAB1 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(3) = -2.176 BETAO (2) = -2.080

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6806	.7123	.6881	.6848	.6684
.025	.2239	.3821	.3470	.3151	.2882
.050	.3582	.4763	.3923	.0000	.3503
.150	.4168	.3991	.3820	.3483	.3708
.300	.3261	.2893	.3464	.3255	.3656
.520	.2085	.2175	.2717	.3166	.2855
.685	-.1342	.0000	-.1081	-.0693	-.0798
.775	-.1463	-.1100	.0000	-.0602	-.0994
.900		-.1329	-.0927	-.0854	-.1007

ALPHAO(3) = -2.148 BETAO (3) = 2.137

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6822	.7117	.6877	.6554	.5967
.025	-.1080	-.0602	-.0577	-.1146	-.1388
.050	-.0193	-.0553	-.0554	.0000	-.0998
.150	.2018	.2328	.0979	.0032	.0072
.300	.2414	.2186	.3036	.0983	.0845
.520	.1154	.1045	.1528	.2220	.2112
.685	-.1600	.0000	-.1397	-.1185	-.1093
.775	-.1685	-.1533	.0000	-.1244	-.1260
.900		-.1740	-.1427	-.1325	-.1237

ALPHAO(3) = -2.124 BETAO (4) = 6.280

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6383	.6136	.5932	.5295	.4914
.025	-.0829	-.1159	-.1772	-.2179	-.2138
.050	-.0865	-.1179	-.1808	.0000	-.2292
.150	-.0888	-.1221	-.1521	-.1602	-.1570
.300	-.1032	-.0663	.1909	-.1221	-.1089
.520	.0657	-.0738	-.0774	-.0811	-.0772
.685	-.1966	.0000	-.2168	-.2309	-.2298
.775	-.1917	-.2013	.0000	-.2436	-.2403
.900		-.2121	-.2147	-.2380	-.2354

ARC87-018 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(4) = -.098 BETAO (1) = -8.268

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6045	.5884	.5881	.5940	.6181
.025	.5063	.6139	.5869	.5588	.5543
.050	.4831	.5789	.5353	.0000	.5589
.150	.4877	.4513	.4516	.4741	.4824
.300	.3496	.3643	.1880	.4327	.4645
.520	.2526	.2690	.3879	.3900	.3094
.685	-.1231	.0000	-.0694	-.0290	-.0551
.775	-.1342	-.0861	.0000	-.0250	-.0627
.900		-.1116	-.0489	-.0574	-.0630

ALPHAO(4) = -.095 BETAO (2) = -8.207

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6413	.6685	.6303	.6329	.6130
.025	.3913	.5116	.4659	.4662	.4379
.050	.4157	.5256	.4581	.0000	.4656
.150	.3939	.4255	.3884	.4080	.4098
.300	.3225	.3092	.2628	.3669	.3830
.520	.2197	.2321	.3020	.3374	.2858
.685	-.1383	.0000	-.0925	-.0582	-.0700
.775	-.1517	-.1088	.0000	-.0463	-.0841
.900		-.1313	-.0716	-.0753	-.0808

ALPHAO(4) = -.084 BETAO (3) = .007

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6371	.6369	.6678	.6241	.5865
.025	-.0198	.1515	.1087	.1008	.0184
.050	.0921	.1658	.1035	.0000	.0680
.150	.3190	.3630	.2590	.2646	.2559
.300	.2620	.2206	.2812	.2463	.2771
.520	.1299	.1400	.1847	.2402	.2124
.685	-.1613	.0000	-.1325	-.1074	-.1159
.775	-.1737	-.1469	.0000	-.1042	-.1287
.900		-.1651	-.1221	-.1176	-.1329

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(4) = -.082 BETAO (4) = 4.192

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6232	.6554	.5848	.5293	.4962
.025	-.0895	-.1444	-.2163	-.1938	-.1958
.050	-.0519	-.1405	-.1945	.0000	-.1952
.150	.0014	-.0420	-.1298	-.1178	-.1136
.300	.0485	.0526	.2015	-.0792	-.0628
.520	.0420	.0383	.0742	-.0366	-.0481
.685	-.1974	.0000	-.1745	-.2181	-.2115
.775	-.1873	-.1915	.0000	-.2132	-.2168
.900		-.2039	-.1879	-.1863	-.2119

ALPHAO(4) = -.055 BETAO (5) = 6.267

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5809	.5731	.5403	.4893	.4415
.025	-.0925	-.1399	-.1994	-.2294	-.2248
.050	-.0980	-.1435	-.2007	.0000	-.2438
.150	-.1007	-.1451	-.1847	-.1824	-.1770
.300	-.1406	-.0879	.0833	-.1471	-.1311
.520	.0312	-.0997	-.0971	-.1033	-.1007
.685	-.2073	.0000	-.2357	-.2497	-.2415
.775	-.1929	-.2174	.0000	-.2549	-.2520
.900		-.2229	-.2272	-.2474	-.2487

ALPHAO(5) = 1.985 BETAO (1) = -6.257

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5973	.5428	.5329	.5440	.5515
.025	.4206	.5626	.5206	.3187	.5098
.050	.4092	.5249	.4936	.0000	.5134
.150	.4371	.4034	.4093	.4333	.4389
.300	.3058	.3183	.1283	.3897	.4330
.520	.2158	.2321	.3386	.3509	.2868
.685	-.1433	.0000	-.0648	-.0458	-.0648
.775	-.1502	-.1024	.0000	-.0412	-.0717
.900		-.1259	-.0848	-.0671	-.0723

ARC97-019 IA81 (VAP(ALLHL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(5) = 1.981 BETAO (2) = -2.089

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6185	.6100	.6158	.5751	.5537
.025	.1511	.2437	.2848	.2703	.2248
.050	.2607	.3310	.3245	.0000	.2887
.150	.2872	.3222	.2987	.2873	.3034
.300	.2253	.2291	.1997	.2801	.2955
.520	.1429	.1674	.2271	.2444	.2484
.685	-.1617	.0000	-.1237	-.0827	-.0935
.775	-.1741	-.1348	.0000	-.0774	-.1138
.900		-.1570	-.1123	-.1017	-.1112

ALPHAO(5) = 1.994 BETAO (3) = 2.124

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6078	.6276	.6040	.5480	.4954
.025	-.1306	-.1047	-.0801	-.1284	-.1633
.050	-.0563	-.0933	-.0742	.0000	-.1312
.150	.1468	.1531	.0486	-.0337	-.0334
.300	.1871	.1743	.1874	.0780	.0369
.520	.0654	.0613	.1152	.1642	.1691
.685	-.1685	.0000	-.1637	-.1394	-.1293
.775	-.1711	-.1878	.0000	-.1407	-.1414
.900		-.1963	-.1607	-.1489	-.1443

ALPHAO(5) = 2.005 BETAO (4) = 6.266

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.5126	.5159	.4800	.4178	.3751
.025	-.1047	-.1581	-.2144	-.2389	-.2352
.050	-.1093	-.1614	-.2160	.0000	-.2575
.150	-.1073	-.1614	-.2075	-.2023	-.1963
.300	-.1810	-.1091	.0938	-.1696	-.1524
.520	-.0098	-.1188	-.1124	-.1236	-.1196
.685	-.2091	.0000	-.2484	-.2585	-.2506
.775	-.1849	-.2278	.0000	-.2624	-.2608
.900		-.2222	-.2379	-.2526	-.2572

ARC97-018 IAS1 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(6) = 4.105 BETAO (1) = -6.249

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.4800	.4788	.4787	.4949	.5018
.025	.3905	.5059	.4888	.4949	.4839
.050	.3737	.4722	.4598	.0000	.4839
.150	.3878	.3614	.3854	.4085	.4153
.300	.2749	.2645	.1045	.3643	.4040
.520	.1917	.2088	.3112	.3192	.2652
.685	-.1443	.0000	-.0968	-.0490	-.0712
.775	-.1577	-.1116	.0000	-.0538	-.0748
.900		-.1318	-.0783	-.0732	-.0771

ALPHAO(6) = 4.105 BETAO (2) = -4.195

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5587	.5552	.5478	.5358	.5071
.025	.2110	.3258	.4091	.4127	.3854
.050	.2632	.3873	.4003	.0000	.4019
.150	.2351	.3418	.3304	.3509	.3447
.300	.1998	.2366	.1861	.3079	.3304
.520	.1222	.1607	.2337	.2703	.2289
.685	-.1812	.0000	-.1159	-.0779	-.0919
.775	-.1825	-.1394	.0000	-.0714	-.1020
.900		-.1595	-.1019	-.0968	-.0988

ALPHAO(6) = 4.105 BETAO (3) = .015

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6081	.5981	.5786	.5383	.4782
.025	-.0255	.1853	.0893	.0844	.0147
.050	.0839	.1866	.0975	.0000	.0540
.150	.3545	.2971	.2089	.2118	.2124
.300	.2153	.1703	.2102	.1971	.2213
.520	.0848	.0916	.1439	.1895	.1650
.685	-.1863	.0000	-.1527	-.1261	-.1307
.775	-.1878	-.1608	.0000	-.1248	-.1451
.900		-.1778	-.1422	-.1392	-.1461

ARC87-019 IAB1 LVAP(ALLHL SEALED) LFFT VERTICAL. (RETV38)

ALPHAO(6) = 4.108 BETAO (4) = 4.191

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.8878	.8686	.5321	.4488	.4084
.025	-.0867	-.1898	-.2220	-.2124	-.2186
.050	-.0721	-.1315	-.1978	-.2077	-.2041
.150	-.0348	-.0495	-.1478	-.1441	-.1470
.300	.0178	-.0253	-.0991	-.1100	-.1054
.520	-.0316	-.0014	.0486	-.0778	-.0675
.685	-.1756	.0000	-.1898	-.2141	-.2238
.775	-.1883	-.2140	.0000	-.1915	-.2194
.900		-.2057	-.2064	-.1792	-.2078

ALPHAO(6) = 4.104 BETAO (5) = 6.248

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.4898	.4687	.4377	.3738	.3482
.025	-.1100	-.1639	-.2238	-.2457	-.2424
.050	-.1123	-.1692	-.2278	-.2632	-.2712
.150	-.1156	-.1685	-.2210	-.2160	-.2162
.300	-.1510	-.1200	-.1483	-.1820	-.1784
.520	-.0349	-.1100	-.1249	-.1393	-.1384
.685	-.2152	.0000	-.2507	-.2869	-.2819
.775	-.1860	-.2289	.0000	-.2695	-.2712
.900		-.2197	-.2414	-.2598	-.2662

ALPHAO(7) = 6.207 BETAO (1) = -4.181

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.2880	.5099	.4972	.4900	.4794
.025	.2324	.3921	.4008	.4156	.4038
.050	.2241	.3954	.3863	.4083	.4032
.150	.2397	.3026	.3185	.3504	.3442
.300	.1980	.2151	.2726	.3125	.3028
.520	.1195	.1889	.2300	.2726	.2385
.685	-.1687	.0000	-.1150	-.0740	-.0959
.775	-.1674	-.1467	.0000	-.0763	-.0979
.900		-.1822	-.0988	-.0976	-.0959

ARC97-019 IAB1 LVAP(ALLML SEALED) LEFT VERTICAL (RETV38)

ALPHAO(7) = 6.210 BETAO (2) = -2.065

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6588	.5410	.5810	.5165	.4953
.025	.1031	.1886	.2910	.2034	.2833
.050	.2012	.2469	.3145	.3082	.3195
.150	.1475	.2081	.2881	.2801	.2906
.300	.1197	.1826	.2484	.2537	.2481
.520	.0822	.1387	.1856	.2208	.1970
.685	-.1829	.0000	-.1389	-.0956	-.1138
.775	-.1719	-.1690	.0000	-.0976	-.1241
.900		-.1888	-.1297	-.1168	-.1182

ALPHAO(7) = 6.220 BETAO (3) = .028

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6304	.5989	.5458	.5017	.4666
.025	-.0084	.0835	.0863	.1005	.0427
.050	.0964	.0047	.1028	.1048	.0831
.150	.2894	.2397	.2073	.2215	.2099
.300	.1807	.1612	.1747	.1988	.1824
.520	.0666	.0942	.1338	.1493	.1539
.685	-.1819	.0000	-.1489	-.1265	-.1338
.775	-.1832	-.1719	.0000	-.1259	-.1474
.900		-.1825	-.1436	-.1404	-.1451

ALPHAO(7) = 6.219 BETAO (4) = 2.132

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5975	.5781	.5477	.4899	.4372
.025	-.1223	.0209	-.0281	-.0578	-.1306
.050	-.0340	.0285	-.0324	-.0558	-.0995
.150	.2295	.1167	.1137	.0278	-.0080
.300	.1783	.1518	.1187	.1424	.1269
.520	.0430	.0434	.0708	.0918	.1077
.685	-.1850	.0000	-.1778	-.1585	-.1585
.775	-.1805	-.2069	.0000	-.1625	-.1664
.900		-.2105	-.1739	-.1688	-.1701

ARC87-019 IA81 LVAP(ALLHI. SEALED) LEFT VERTICAL (RETV38)

ALPHAO(7) = 8.217 BETAO (5) = 4.198

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.3258	.5080	.4724	.4033	.3843
.025	-.0203	-.1135	-.2030	-.2205	-.2249
.050	-.0081	-.1211	-.1918	-.2175	-.2365
.150	.0253	-.0484	-.1664	-.1556	-.1626
.300	-.0218	-.0270	-.0481	-.1186	-.1229
.520	-.0537	-.0283	.0109	-.0573	-.0722
.685	-.1760	.0000	-.1971	-.1878	-.2153
.775	-.1862	-.2103	.0000	-.1858	-.2060
.900		-.2027	-.2109	-.1885	-.1842

ARC97-019 IA81 LVAP(ALLML SEALED) LEFT VERTICAL (RETV37) (12 OCT 74)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	976.0000 IN. XT		
LREF =	1297.0000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1297.0000 INCHES	ZMRP =	400.0000 IN. ZT		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

MACH =	2.200	RN/FT =	2.500
ELV-IP =	8.000	ELV-OB =	-4.000
RUDDER =	.000	SPDBRK =	.000

ALPHAO(1) = -6.357 BETAO (1) = -4.340

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8217	.8315	.8406	.9480	.8184
.025	.5241	.8273	.5879	.5801	.5168
.050	.5701	.8614	.5774	.5730	.5595
.150	.5830	.5478	.5059	.5282	.5157
.300	.4598	.4156	.4831	.4947	.4882
.520	.3377	.3478	.4108	.4411	.4119
.685	-.0512	.0000	-.0139	.0248	.0058
.775	-.0737	-.0203	.0000	.0311	-.0058
.900		-.0465	.0085	.0011	-.0068

ALPHAO(1) = -6.348 BETAC (2) = -2.232

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7881	.8439	.8856	.8504	.8117
.025	.2897	.4119	.4123	.3647	.2949
.050	.4119	.4630	.4740	.4038	.3632
.150	.5033	.5072	.4401	.4438	.4384
.300	.4184	.3787	.4008	.4380	.4035
.520	.2751	.3022	.3430	.3765	.3687
.685	-.0844	.0000	-.0388	-.0040	-.0211
.775	-.0882	-.0457	.0000	.0018	-.0344
.900		-.0712	-.0230	-.0194	-.0381

ARC87-010 1A81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV37)

ALPHA0(1) = -8.330 BETA0 (3) = -.129

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7386	.8647	.8413	.8485	.7992
.025	.0748	.2164	.1771	.1581	.0498
.050	.1831	.2192	.2067	.1849	.1171
.150	.4404	.4936	.3931	.3432	.2643
.300	.3896	.3398	.3496	.3720	.3392
.520	.2342	.2518	.2820	.3092	.3099
.685	-.0843	.0000	-.0629	-.0352	-.0481
.775	-.1115	-.0724	.0000	-.0328	-.0577
.900		-.0935	-.0497	-.0447	-.0662

ALPHA0(2) = -8.316 BETA0 (4) = 1.982

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7627	.8628	.8545	.8212	.7717
.025	-.0478	.0091	-.0373	-.0145	-.0384
.050	.0249	.0313	.0280	.0258	.0033
.150	.3170	.3208	.1083	.1015	.0928
.300	.3378	.3202	.2908	.1505	.1307
.520	.1817	.1839	.2260	.2632	.2088
.685	-.1054	.0000	-.0856	-.0595	-.0462
.775	-.1351	-.1050	.0000	-.0623	-.0654
.900		-.1169	-.0880	-.0681	-.0857

ALPHA0(1) = -8.303 BETA0 (5) = 4.052

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7837	.9394	.9184	.7872	.7413
.025	-.0347	-.0562	-.1083	-.0705	-.0606
.050	.0267	-.0371	-.0749	-.0433	-.0607
.150	.1418	.1194	.0053	.0246	.0250
.300	.2262	.1948	.0753	.0532	.0523
.520	.1956	.1955	.1758	.0711	.0701
.685	-.1241	.0000	-.0930	-.1426	-.1388
.775	-.1480	-.1205	.0000	-.1337	-.1443
.900		-.1307	-.1113	-.1023	-.1388

ARC87-019 IAB1 LVAP(ALLHL SCALED) LEFT VERTICAL (RETV37)

ALPHA0(2) = -4.273 BETA0 (1) = -8.424

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9850
X/CV					
.000	.7401	.7888	.7373	.7783	.7889
.025	.6881	.7178	.6382	.6483	.6387
.050	.6788	.6813	.6137	.6317	.6368
.150	.5876	.5829	.5241	.5845	.5893
.300	.4507	.4398	.4698	.5268	.4957
.520	.3524	.3777	.4223	.4607	.4175
.685	-.0518	.0000	-.0090	.0217	.0008
.775	-.0709	-.0178	.0000	.0292	-.0081
.900		-.0444	.0305	-.0023	-.0002

ALPHA0(2) = -4.288 BETA0 (2) = -4.382

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9850
X/CV					
.000	.7881	.7808	.7728	.7888	.7883
.025	.4884	.5888	.5377	.5874	.4880
.050	.5116	.5161	.5438	.5370	.5888
.150	.4843	.5881	.4737	.4883	.4881
.300	.4249	.3818	.4287	.4586	.4343
.520	.3109	.3231	.3748	.4088	.3788
.685	-.0574	.0000	-.0201	.0180	-.0007
.775	-.0787	-.0384	.0000	.0193	-.0117
.900		-.0580	-.0025	-.0077	-.0107

ALPHA0(2) = -4.242 BETA0 (3) = -.145

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9850
X/CV					
.000	.6802	.7884	.8120	.7775	.7371
.025	.0567	.1284	.1800	.1271	.0238
.050	.1561	.1374	.1780	.1354	.0893
.150	.3725	.4360	.3513	.2781	.2092
.300	.3538	.3077	.3137	.3383	.3033
.520	.2008	.2162	.2512	.2756	.2846
.685	-.0947	.0000	-.0841	-.0452	-.0549
.775	-.1180	-.0801	.0000	-.0445	-.0842
.900		-.0894	-.0611	-.0556	-.0728

ARC87-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV37)

ALPHAO(2) = -4.218 BETAO (4) = 4.041

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1830	.3180	.6000	.8400	.9850
X/CV					
.000	.7311	.7842	.7481	.7186	.6794
.025	-.0484	-.0805	-.1143	-.0810	-.0869
.050	.0063	-.0528	-.0870	-.0584	-.0732
.150	.0987	.0356	-.0181	.0022	.0050
.300	.1555	.1586	.0291	.0288	.0280
.520	.1184	.1253	.1423	.0434	.0394
.685	-.1229	.0000	-.1048	-.1483	-.1436
.775	-.1512	-.1302	.0000	-.1510	-.1507
.900		-.1385	-.1163	-.1356	-.1473

ALPHAO(2) = -4.212 BETAO (5) = 8.106

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.7224	.7283	.6959	.8596	.6229
.025	-.0455	-.0652	-.1572	-.1275	-.1255
.050	-.0458	-.0675	-.1495	-.1232	-.1326
.150	-.0027	-.0291	-.0925	-.0634	-.0585
.300	-.0248	.0513	-.0584	-.0347	-.0247
.520	.1094	.0203	.0123	-.0140	.0024
.685	-.1428	.0000	-.1409	-.1788	-.1671
.775	-.1628	-.1365	.0000	-.1862	-.1775
.900		-.1535	-.1465	-.1845	-.1755

ALPHAO(3) = -2.199 BETAO (1) = -8.426

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.6788	.8885	.6553	.7038	.7004
.025	.5348	.6726	.5871	.5987	.5862
.050	.5179	.6487	.5608	.5881	.5892
.150	.4987	.5229	.4809	.5185	.5143
.300	.4051	.4084	.4377	.4839	.4524
.520	.3129	.3410	.3834	.4207	.3857
.685	-.0839	.0000	-.0124	.0127	-.0074
.775	-.0848	-.0304	.0000	.0157	-.0154
.900		-.0561	.0190	-.0104	-.0101

ARC97-018 IA81 LVAP(ALL[illegible] SEALED) LEFT VERTICAL (RETV37)

ALPHAO(3) = -2.188 BETAO (2) = -2.253

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.7081	.7141	.7275	.7105	.6834
.025	.2317	.2481	.3183	.2943	.2265
.050	.3293	.2801	.3787	.3220	.2868
.150	.3833	.4187	.3877	.3824	.3582
.300	.3269	.3086	.3420	.3620	.3263
.520	.2063	.2426	.2726	.2982	.2935
.685	-.0977	.0000	-.0598	-.0346	-.0447
.775	-.1157	-.0708	.0000	-.0316	-.0581
.900		-.0945	-.0521	-.0491	-.0581

ALPHAO(3) = -2.171 BETAO (3) = 1.947

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6508	.7387	.7135	.8915	.8598
.025	-.0784	-.0433	-.0470	-.0407	-.0582
.050	-.0151	-.0020	.0031	-.0102	-.0254
.150	.2265	.1720	.0426	.0536	.0471
.300	.2593	.2526	.2192	.0844	.0713
.520	.1176	.1259	.1663	.1552	.0934
.685	-.1287	.0000	-.1019	-.0807	-.0777
.775	-.1538	-.1283	.0000	-.0811	-.0891
.900		-.1375	-.1102	-.0920	-.0868

ALPHAO (3) = -2.158 BETAO (4) = 8.083

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.6733	.6753	.6322	.6042	.5859
.025	-.0830	-.0878	-.1641	-.1388	-.1357
.050	-.0827	-.0872	-.1611	-.1351	-.1458
.150	-.0245	-.0469	-.1050	-.0806	-.0790
.300	-.0483	.0208	-.0733	-.0553	-.0484
.520	.0717	.0019	-.0195	-.0353	-.0239
.685	-.1572	.0000	-.1515	-.1080	-.1783
.775	-.1746	-.1504	.0000	-.1041	-.1880
.900		-.1651	-.1538	-.1084	-.1867

ARC97-019 IA81 LVAP(ALL HL SEALED) LEFT VERTICAL (RETV37)

ALPHA0(4) = -.138 BETA0 (1) = -6.431

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6200	.8482	.5912	.6382	.6378
.025	.4926	.6292	.5622	.5608	.5526
.050	.4726	.6352	.5325	.5445	.5520
.150	.4267	.4944	.4477	.4824	.4792
.300	.3842	.3822	.4070	.4504	.4224
.520	.2849	.3067	.3599	.3886	.3487
.695	-.0834	.0000	-.0275	.0034	-.0208
.775	-.1058	-.0432	.0000	.0051	-.0251
.900		-.0683	-.0048	-.0184	-.0198

ALPHA0(4) = -.135 BETA0 (2) = -4.375

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6475	.6855	.6385	.6583	.6300
.025	.3705	.4044	.4383	.4607	.4324
.050	.4020	.4586	.4443	.4627	.4541
.150	.3581	.4683	.3910	.4127	.4070
.300	.3407	.3312	.3693	.3873	.3625
.520	.2391	.2664	.3088	.3346	.3084
.685	-.0924	.0000	-.0485	-.0145	-.0310
.775	-.1159	-.0675	.0000	-.0152	-.0404
.900		-.0909	-.0297	-.0360	-.0390

ALPHA0(4) = -.128 BETA0 (3) = -.174

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1330	.3160	.8000	.8400	.9250
X/CV					
.000	.5785	.6849	.6847	.6543	.6195
.025	.0128	.0985	.1132	.0904	-.0345
.050	.1019	.1153	.1370	.0971	.0499
.150	.2939	.3813	.2804	.1900	.1544
.300	.2768	.2355	.2560	.2690	.2344
.520	.1335	.1461	.1928	.2038	.2092
.685	-.1284	.0000	-.0968	-.0784	-.0831
.775	-.1484	-.1098	.0000	-.0796	-.0938
.900		-.1263	-.0945	-.0882	-.0999

ARC97-019 1A81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV37)

ALPHAO(4) = -.113 BETAO (4) = 4.000

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6381	.6454	.6373	.5936	.5642
.025	-.0631	-.1163	-.1320	-.1103	-.1135
.050	-.0459	-.0825	-.1096	-.0963	-.1082
.150	.0392	-.0350	-.0455	-.0428	-.0407
.300	.0556	.0845	-.0177	-.0187	-.0189
.520	.0552	.0662	.0695	-.0024	-.0064
.685	-.1552	.0000	-.1253	-.1682	-.1642
.775	-.1693	-.1598	.0000	-.1733	-.1723
.900		-.1668	-.1390	-.1709	-.1699

ALPHAO(4) = -.090 BETAO (5) = 8.061

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6309	.6285	.5769	.5429	.5079
.025	-.0747	-.1104	-.1778	-.1530	-.1509
.050	-.0744	-.1094	-.1791	-.1571	-.1643
.150	-.0470	-.0826	-.1253	-.1060	-.1037
.300	-.0837	-.0161	-.0862	-.0812	-.0752
.520	.0365	-.0281	-.0652	-.0588	-.0518
.685	-.1688	.0000	-.1794	-.1991	-.1914
.775	-.1835	-.1691	.0000	-.2018	-.2015
.900		-.1829	-.1674	-.1938	-.1998

ALPHAO(5) = 1.918 BETAO (1) = -8.431

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5786	.6083	.5584	.5798	.5787
.025	.4435	.5899	.5404	.5350	.5282
.050	.4248	.5695	.5109	.5173	.5228
.150	.3812	.4448	.4244	.4568	.4498
.300	.3112	.3314	.3850	.3947	.3957
.520	.2254	.2781	.3394	.3634	.3328
.685	-.1002	.0000	-.0332	-.0021	-.0267
.775	-.1235	-.0530	.0000	-.0055	-.0248
.900		-.0757	-.0221	-.0250	-.0233

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV37)

ALPHAG(5) = 1.918 BETAO (2) = -2.268

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8293	.6093	.6317	.6006	.5735
.025	.1975	.2278	.2618	.2532	.2050
.050	.2655	.3022	3109	.2851	.2609
.150	.2762	.3268	.3085	.2985	.2980
.300	.2328	.2431	.2877	.2958	.2894
.520	.1470	.1922	.2250	.2441	.2394
.685	-.1278	.0000	-.0773	-.0551	-.0658
.775	-.1504	-.0951	.0000	-.0513	-.0778
.900		-.1142	-.0690	-.0699	-.0732

ALPHAO(5) = 1.931 BETAO (3) = 1.934

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5894	.6848	.6206	.5882	.5384
.025	-.1173	-.0981	-.0831	-.0756	-.0920
.050	-.0847	-.0486	-.0271	-.0500	-.0894
.150	.1609	.0734	.0035	.0090	-.0007
.300	.1958	.1898	.1570	.0293	.0283
.520	.0643	.0777	.1184	.1203	.0569
.685	-.1476	.0000	-.1263	-.1015	-.0991
.775	-.1668	-.1474	.0000	-.1065	-.1109
.900		-.1578	-.1313	-.1186	-.1102

ALPHAO(5) = 1.943 BETAO (4) = 8.065

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5700	.6021	.5185	.4886	.4388
.025	-.0648	-.1300	-.1871	-.1670	-.1648
.050	-.0875	-.1300	-.1985	-.1784	-.1839
.150	-.0897	-.1011	-.1495	-.1320	-.1302
.300	-.1188	-.0477	-.1213	-.1045	-.1015
.520	-.0030	-.0575	-.1008	-.0771	-.0792
.685	-.1815	.0000	-.1985	-.2078	-.2016
.775	-.1900	-.1828	.0000	-.2095	-.2112
.900		-.1952	-.1858	-.2048	-.2098

ARC87-019 IAB1 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV37)

ALPHAO(8) = 4.018 BETAO (1) = -8.417

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8111	.6188	.6010	.6077	.6081
.025	.3981	.8381	.5117	.6077	.6017
.050	.3814	.5068	.4854	.4830	.4931
.150	.3851	.3985	.4084	.4268	.4244
.300	.2791	.3184	.3951	.4024	.3727
.520	.1787	.2402	.3194	.3389	.3087
.685	-.1014	.0000	-.0499	-.0148	-.0337
.775	-.1221	-.0686	.0000	-.0179	-.0330
.900		-.0860	-.0409	-.0333	-.0340

ALPHAO(8) = 4.022 BETAO (2) = -4.381

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5830	.5826	.5499	.5303	.5184
.025	.2439	.3276	.4201	.4188	.4038
.050	.2891	.3634	.4111	.4124	.4125
.150	.2448	.3871	.3447	.3601	.3586
.300	.2192	.2739	.3484	.3340	.3107
.520	.1509	.1991	.2629	.2812	.2598
.685	-.1372	.0000	-.0700	-.0355	-.0519
.775	-.1509	-.0990	.0000	-.0396	-.0570
.900		-.1167	-.0636	-.0580	-.0545

ALPHAO(8) = 4.025 BETAO (3) = -.168

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5460	.6008	.5824	.5284	.5051
.025	.0288	.1597	.1343	.1042	.0270
.050	.1203	.1821	.1503	.1082	.0822
.150	.3380	.3224	.2435	.2031	.1784
.300	.2283	.1971	.2582	.2175	.1878
.520	.0935	.1089	.1508	.1583	.1597
.685	-.1439	.0000	-.1153	-.0953	-.0980
.775	-.1807	-.1280	.0000	-.0973	-.1104
.900		-.1404	-.1150	-.1080	-.1120

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV37)

ALPHAO(6) = 4.034 BETAO (4) = 3.991

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5833	.5748	.5425	.4637	.4435
.025	-.0952	-.1243	-.1550	-.1454	-.1484
.050	-.0855	-.1126	-.1397	-.1374	-.1534
.150	-.0454	-.0800	-.0890	-.0864	-.0889
.300	.0018	-.0234	-.0524	-.0594	-.0601
.520	-.0210	-.0047	-.0534	-.0407	-.0444
.685	-.1570	.0000	-.1464	-.1879	-.1829
.775	-.1744	-.1817	.0000	-.1936	-.1906
.900		-.1860	-.1624	-.1909	-.1912

ALPHAO(6) = 4.038 BETAO (5) = 8.084

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5149	.5408	.4631	.4205	.3846
.025	-.1019	-.1436	-.1967	-.1787	-.1770
.050	-.1056	-.1445	-.2087	-.1917	-.1987
.150	-.0862	-.1238	-.1664	-.1517	-.1489
.300	-.1329	-.0808	-.1351	-.1254	-.1201
.520	-.0378	-.0854	-.1188	-.0941	-.1027
.685	-.1916	.0000	-.2110	-.2147	-.2094
.775	-.1913	-.1954	.0000	-.2147	-.2187
.900		-.2040	-.2087	-.2127	-.2184

ALPHAO(7) = 8.134 BETAO (1) = -4.334

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.3743	.5288	.4931	.4928	.4889
.025	.1815	.3208	.3953	.3953	.3800
.050	.1798	.3642	.3803	.3853	.3843
.150	.1913	.3319	.3098	.3329	.3307
.300	.1788	.2235	.2988	.3088	.2855
.520	.1180	.1754	.2512	.2631	.2383
.685	-.1332	.0000	-.0755	-.0398	-.0802
.775	-.1419	-.1115	.0000	-.0434	-.0819
.900		-.1335	-.0721	-.0619	-.0589

ARC97-019 1A81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV37)

ALPHAO(7) = 6.130 BETAO (2) = -2.240

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5501	.5491	.5229	.5158	.4758
.025	.1898	.2391	.2565	.2872	.2409
.050	.2457	.2792	.2835	.2899	.2784
.150	.1852	.2232	.2615	.2735	.2660
.300	.1140	.1615	.2645	.2586	.2395
.520	.0751	.1321	.1882	.2151	.2087
.685	-.1587	.0000	-.0943	-.0666	-.0753
.775	-.1684	-.1330	.0000	-.0669	-.0873
.900		-.1503	-.0909	-.0820	-.0813

ALPHAO(7) = 6.130 BETAO (3) = -.194

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5786	.5697	.5366	.4824	.4451
.025	.0564	.1501	.1263	.1023	.0374
.050	.1504	.1494	.1477	.1087	.0736
.150	.3314	.2688	.2147	.2047	.1636
.300	.1902	.1620	.2308	.1954	.1686
.520	.0537	.0860	.1300	.1375	.1399
.685	-.1523	.0000	-.1209	-.1022	-.1042
.775	-.1633	-.1442	.0000	-.1035	-.1166
.900		-.1529	-.1232	-.1149	-.1162

ALPHAO(7) = 6.134 BETAO (4) = 1.951

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9230
X/CV					
.000	.5841	.5742	.5052	.4723	.4292
.025	-.1314	-.1177	-.0227	-.0850	-.1190
.050	-.0898	-.0883	-.0234	-.0837	-.0949
.150	.1430	.0850	.0528	-.0154	-.0218
.300	.1804	.1710	.1528	.0808	.0145
.520	.0498	.0566	.0973	.0968	.1268
.685	-.1538	.0000	-.1377	-.1213	-.1183
.775	-.1741	-.1644	.0000	-.1314	-.1270
.900		-.1770	-.1460	-.1387	-.1297

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV37)

ALPHAO(7) = 8.135 BETAO (5) = 3.998

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.4286	.5250	.5084	.4216	.3944
.025	-.0932	-.1148	-.1704	-.1594	-.1629
.050	-.0915	-.1132	-.1627	-.1581	-.1732
.150	-.0032	-.0781	-.1144	-.1111	-.1147
.300	-.0203	-.0611	-.0794	-.0854	-.0856
.520	-.0574	-.0238	-.0531	-.0648	-.0689
.685	-.1611	.0000	-.1571	-.1993	-.1943
.775	-.1744	-.1901	.0000	-.2013	-.2020
.900		-.1844	-.1767	-.1933	-.2027

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV38) (12 OCT 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.500 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = -4.000
RUDDER = .000 SPOBRK = .000

ALPHAO(1) = -6.289 BETAO (1) = -3.981

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8011	.9008	.9387	.8709	.8395
.025	.3703	.3286	.4298	.3983	.3187
.050	.4430	.4099	.4969	.4410	.3876
.150	.4673	.5898	.5029	.4816	.4694
.300	.4445	.4324	.5217	.4819	.4401
.52	.3065	.3317	.3897	.4005	.3997
.685	-.0193	.0000	.0175	.0501	.0301
.775	-.0439	.0054	.0000	.0523	.0182
.900		-.0171	.0231	.0323	.0198

ALPHAO(1) = -6.280 BETAO (2) = -1.881

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7824	.9350	.9389	.8833	.8469
.025	.2372	.2023	.1746	.1305	.0892
.050	.3298	.2204	.2128	.1795	.1502
.150	.4401	.4544	.3812	.2598	.2454
.300	.3904	.3763	.4615	.4189	.3077
.520	.2599	.2843	.3425	.3491	.3801
.685	-.0377	.0000	-.0033	.0233	.0090
.775	-.0593	-.0200	.0000	.0254	.0004
.900		-.0381	.0002	.0138	-.0035

ARC97-019 IAS1 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(1) = -8.208 BETAO (3) = .215

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7780	.8383	.8433	.8686	.8486
.025	.0598	.0503	.0703	.0810	.0533
.050	.1574	.1240	.1423	.1193	.1000
.150	.3567	.3315	.1867	.1792	.1698
.300	.3969	.3804	.4280	.2172	.1983
.520	.2286	.2438	.3080	.3123	.2122
.685	-.0548	.0000	-.0223	.0035	.0081
.775	-.0813	-.0500	.0000	.0045	-.0108
.900		-.0624	-.0216	-.0079	-.0183

ALPHAO(1) = -8.298 BETAO (4) = 8.322

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7773	.9289	.9367	.8832	.8193
.025	-.0230	-.0216	.0127	.0368	.0192
.050	.0381	.0509	.0542	.0656	.0473
.150	.2501	.1337	.1290	.1138	.1088
.300	.3404	.3837	.1783	.1333	.1198
.520	.1932	.2057	.2734	.1415	.1227
.685	-.0843	.0000	-.0337	-.0651	-.0722
.775	-.0956	-.0745	.0000	-.0527	-.0804
.900		-.0827	-.0490	-.0345	-.0690

ALPHAO(1) = -8.250 BETAO (5) = 4.389

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8062	.9024	.8753	.8078	.7814
.025	-.0463	-.0577	-.0551	-.0298	-.0281
.050	-.0121	-.0129	-.0309	-.0163	-.0228
.150	.1445	.0445	.0341	.0270	.0307
.300	.1804	.1713	.0771	.0482	.0432
.520	.1669	.1616	.1528	.0703	.0528
.685	-.0780	.0000	-.0588	-.1054	-.1072
.775	-.1090	-.0395	.0000	-.1115	-.1140
.900		-.0945	-.0611	-.1026	-.1088

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(2) = -4.232 BETAO (1) = -6.049

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7837	.7987	.8019	.8257	.7941
.025	.5173	.4873	.5698	.5347	.4929
.050	.5339	.5583	.5705	.5478	.5291
.150	.4659	.5588	.4961	.5011	.4940
.300	.4339	.4041	.4826	.4763	.4494
.520	.2980	.3280	.4112	.4218	.4003
.685	-.0279	.0000	.0249	.0585	.0400
.775	-.0557	-.0010	.0000	.0588	.0257
.900		-.0148	.0341	.0350	.0310

ALPHAO(2) = -4.224 BETAO (2) = -3.999

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7432	.8303	.8670	.8550	.7876
.025	.3195	.2773	.3694	.3262	.2501
.050	.3884	.3369	.4204	.3563	.3151
.150	.4153	.5121	.4601	.4459	.4407
.300	.3997	.3942	.4781	.4516	.4083
.520	.2497	.2929	.3489	.3703	.3770
.685	-.0355	.0000	.0092	.0281	.0220
.775	-.0597	-.0120	.0000	.0288	.0060
.900		-.0335	.0092	.0131	.0028

ALPHAO(2) = -4.188 BETAO (3) = .210

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7125	.8522	.8705	.8518	.8049
.025	.0414	.0351	.0498	.0700	.0442
.050	.1329	.1018	.1134	.1032	.0845
.150	.3189	.2830	.1624	.1548	.1478
.300	.3551	.3380	.3825	.1881	.1670
.520	.1891	.1991	.2668	.2473	.1772
.685	-.0667	.0000	-.0347	-.0050	-.0110
.775	-.0956	-.0693	.0000	-.0110	-.0245
.900		-.0813	-.0393	-.0238	-.0291

ARC97-019 (ABI LVAP(ALLHL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(2) = -4.182 BETAO (4) = 4.387

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7804	.8285	.8420	.7780	.7458
.025	-.0602	-.0658	-.0412	-.0310	-.0317
.050	-.0319	-.0301	-.0183	-.0193	-.0292
.150	.1131	.0300	.0300	.0247	.0182
.300	.1403	.1149	.0870	.0480	.0348
.520	.1300	.1548	.0797	.0642	.0493
.685	-.0888	.0000	-.0697	-.1077	-.1003
.775	-.1178	-.1004	.0000	-.1158	-.1094
.900		-.1038	-.0676	-.1172	-.1080

ALPHAO(2) = -4.175 BETAO (5) = 8.419

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7142	.7441	.7838	.7374	.7078
.025	-.0314	-.0533	-.0965	-.0654	-.0604
.050	-.0321	-.0473	-.0993	-.0671	-.0707
.150	-.0005	-.0314	-.0601	-.0272	-.0231
.300	-.0016	.0542	-.0314	-.0134	-.0098
.520	.1083	.0489	-.0134	.0045	.0031
.685	-.1033	.0000	-.1212	-.1417	-.1339
.775	-.1303	-.1007	.0000	-.1357	-.1452
.900		-.1139	-.1060	-.1288	-.1413

ALPHAO(3) = -2.171 BETAO (1) = -8.052

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7227	.7374	.7309	.7537	.7288
.025	.4400	.4078	.4983	.4898	.4558
.050	.4520	.4488	.5113	.5007	.4888
.150	.3788	.4993	.4598	.4602	.4544
.300	.3739	.3840	.4630	.4383	.4148
.520	.2625	.3049	.3705	.3861	.3869
.685	-.0484	.0000	.0138	.0458	.0318
.775	-.0728	-.0180	.0000	.0444	.0203
.900		-.0384	.0219	.0235	.0231

ARC97-019 IABI LVAP(ALLHL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(3) = -2.155 BETAO (2) = -1.900

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8511	.7884	.7928	.7320	.7453
.025	.1521	.1185	.1011	.0908	.0582
.050	.2278	.1478	.1526	.1297	.1060
.150	.3300	.3525	.2578	.1922	.1758
.300	.3289	.3242	.3963	.2437	.2195
.520	.1906	.2105	.2631	.2761	.3115
.685	-.0879	.0000	-.0310	-.0050	-.0100
.775	-.0902	-.0518	.0000	-.0107	-.0241
.900		-.0656	-.0317	-.0208	-.0266

ALPHAO(3) = -2.141 BETAO (3) = 2.289

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6794	.7841	.7798	.7618	.7316
.025	-.0553	-.0489	-.0185	.0077	-.0046
.050	-.0081	-.0003	.0116	.0279	.0149
.150	.1618	.0707	.0572	.0843	.0632
.300	.2545	.3138	.1032	.0792	.0693
.520	.1271	.1454	.2178	.0888	.0675
.685	-.0843	.0000	-.0335	-.0962	-.0987
.775	-.1208	-.1020	.0000	-.0959	-.1097
.900		-.1099	-.0705	-.0841	-.1054

ALPHAO(3) = -2.131 BETAO (4) = 8.395

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8702	.8752	.8831	.8809	.8443
.025	-.0465	-.0795	-.1083	-.0790	-.0718
.050	-.0493	-.0853	-.1119	-.0847	-.0870
.150	-.0053	-.0447	-.0719	-.0493	-.0430
.300	-.0068	.0254	-.0373	-.0358	-.0292
.520	.0846	.0395	-.0320	-.0175	-.0200
.685	-.1129	.0000	-.1399	-.1458	-.1424
.775	-.1394	-.1182	.0000	-.1410	-.1524
.900		-.1268	-.1194	-.1346	-.1421

ARC97-019 IAB1 LVAP(ALL HL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(4) = -.107 BETAO (1) = -8.082

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.8842	.8787	.8806	.8820	.8620
.025	.3750	.3704	.4607	.4717	.4429
.050	.3877	.4115	.4717	.4784	.4874
.150	.3389	.4050	.4229	.4714	.4255
.300	.3452	.3638	.4212	.4056	.3628
.520	.2390	.2766	.3335	.3530	.3310
.685	-.0606	.0000	-.0001	.0327	.0178
.775	-.0865	-.0305	.0000	.0291	.0078
.900		-.0492	.0081	.0107	.0121

ALPHAO(4) = -.104 BETAO (2) = -4.014

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.8879	.8898	.7203	.7175	.6872
.025	.2561	.2352	.2168	.2051	.1359
.050	.3143	.3004	.2631	.2209	.1927
.150	.3139	.3349	.3682	.3080	.2904
.300	.2731	.2953	.4017	.3628	.3277
.520	.1756	.2386	.2804	.2933	.2982
.685	- 0686	.0000	-.0201	.0030	-.0027
.775	-.0945	-.0449	.0000	.0018	-.0176
.900		-.0579	-.0198	-.0148	-.0176

ALPHAO(4) = -.086 BETAO (3) = .177

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.8888	.7181	.7087	.7084	.6803
.025	-.0113	-.0030	.0084	.0283	.0106
.050	.0668	.0870	.0958	.0527	.0390
.150	.2318	.1372	.1099	.0898	.0887
.300	.2882	.2627	.2447	.1231	.1021
.520	.1256	.1388	.1987	.1281	.0966
.685	-.6303	.0000	-.0587	-.0327	-.0668
.775	-.1144	-.0833	.0000	-.0420	-.0847
.900		-.1004	-.0888	-.0544	-.0588

ARC97-018 (A8) LVAP(ALLHL SEALED) LEFT VERTICAL (RETV30)

ALPHAO(4) = -.081 BETAO (4) = 4.323

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9850
X/CV					
.000	.8743	.8700	.7995	.8883	.8838
.025	-.0871	-.0808	-.0588	-.0357	-.0482
.050	-.0838	-.0388	-.0421	-.0281	-.0388
.150	.0418	-.0102	-.0077	.0075	.0081
.300	.0501	.0132	.0189	.0178	.0143
.520	.0568	.0950	.0028	.0208	.0150
.685	-.1198	.0000	-.1189	-.1280	-.1241
.775	-.1432	-.1281	.0000	-.1383	-.1351
.900		-.1327	-.0994	-.1312	-.1337

ALPHAO(4) = -.078 BETAO (5) = 6.388

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9850
X/CV					
.000	.8428	.6388	.6214	.5870	.5773
.025	-.0541	-.0835	-.1135	-.0917	-.0868
.050	-.0585	-.0858	-.1120	-.1012	-.1063
.150	-.0221	-.0485	-.0715	-.0883	-.0885
.300	-.0387	-.0088	-.0380	-.0502	-.0502
.520	.0233	.0082	-.0414	-.0138	-.0358
.685	-.1237	.0000	-.1487	-.1448	-.1433
.775	-.1488	-.1898	.0000	-.1480	-.1518
.900		-.1405	-.1487	-.1398	-.1483

ALPHAO(9) = 1.837 BETAO (1) = -8.088

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9850
X/CV					
.000	.8070	.8850	.6500	.8803	.9080
.025	.3386	.3876	.4348	.4373	.4186
.050	.3801	.3987	.4454	.4444	.4342
.150	.3034	.4810	.3817	.3998	.3982
.300	.3051	.3282	.3898	.3788	.3981
.520	.2685	.2534	.3183	.3291	.3124
.685	-.0727	.0000	-.0086	.0243	.0118
.775	-.1008	-.0377	.0000	.0189	.0001
.900		-.0800	.0012	-.0002	.0033

ARC97-018 (ABI LVAP(ALLHL SCALED) LEFT VERTICAL (RETV38)

ALPHAO(5) = 1.842 BETAO (2) = -1.906

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.5619	.6579	.6853	.6546	.6215
.025	.1303	.0874	.0749	.0523	.0226
.050	.1904	.1087	.1188	.0342	.0600
.150	.2590	.3087	.1954	.1380	.1219
.300	.2707	.2532	.3241	.2048	.1561
.520	.1282	.1479	.1954	.2084	.2319
.685	-.0938	.0000	-.0604	-.0332	-.0390
.775	-.1169	-.0792	.0000	-.0440	-.0538
.900		-.0909	-.0[illegible]3	-.0547	-.0547

ALPHAO(5) = 1.953 BETAO (3) = 2.279

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.6583	.6555	.6681	.6311	.6020
.025	-.0980	-.0783	-.0441	-.0211	-.0343
.050	-.0687	-.0413	-.0222	-.0087	-.0237
.150	.0841	.0238	.0138	.0198	.0168
.300	.1771	.1981	.0493	.0302	.0218
.520	.0716	.0939	.1418	.0395	.0200
.685	-.0932	.0000	-.0869	-.1175	-.1203
.775	-.1355	-.1233	.0000	-.1171	-.1313
.900		-.1319	-.0965	-.1142	-.1257

ALPHAO(5) = 1.988 BETAO (4) = 8.390

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.5844	.6185	.5637	.5178	.4981
.025	-.0579	-.1040	-.1177	-.1050	-.1008
.050	-.0611	-.0845	-.1184	-.1184	-.1233
.150	-.0430	-.0643	-.0778	-.0817	-.0825
.300	-.0661	-.0348	-.0534	-.0569	-.0590
.520	-.0198	-.0293	-.0608	-.0246	-.0395
.685	-.1363	.0000	-.1570	-.1502	-.1453
.775	-.1547	-.1404	.0000	-.1570	-.1552
.900		-.1520	-.1517	-.1513	-.1552

ARC97-J19 !A81 LVAP(ALLHL SEALED) ... T VERTICAL (RETV38)

ALPHAO(6) = 3.403 BETAO (1) = -6.044

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5705	.6195	.5861	.5862	.5812
.025	.2956	.3519	.4117	.4294	.4114
.050	.3179	.3750	.4138	.4278	.4256
.150	.2640	.3993	.3728	.3887	.3805
.300	.2473	.2954	.3756	.3590	.3339
.520	.1826	.2306	.2971	.3038	.2848
.685	-.0892	.0000	-.0113	.0089	-.0007
.775	-.1181	-.0558	.0000	.0033	-.0078
.900		-.0714	-.0144	-.0127	-.0092

ALPHAO(6) = 3.401 BETAO (2) = -4.060

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5942	.6178	.6110	.5892	.5596
.025	.2153	.2248	.2100	.1899	.1375
.050	.2489	.2864	.2560	.2122	.1847
.150	.2153	.2560	.2747	.2708	.2481
.300	.1643	.2171	.3429	.3107	.2736
.520	.1194	.1867	.2468	.2460	.2449
.685	-.0975	.0000	-.0341	-.0156	-.0202
.775	-.1234	-.0705	.0000	-.0199	-.0319
.900		-.0842	-.0341	-.0351	-.0294

ALPHAO(6) = 3.409 BETAO (3) = .180

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5265	.5903	.6122	.5784	.5542
.025	-.0454	-.0116	-.0201	-.0081	-.0243
.050	.0081	.0224	.0284	.0062	-.0055
.150	.1641	.0825	.0673	.0432	.0364
.300	.2184	.2128	.2009	.0733	.0578
.520	.0860	.0987	.1525	.0833	.0489
.685	-.1078	.0000	-.0809	-.0556	-.0805
.775	-.1295	-.1078	.0000	-.0695	-.0801
.900		-.1183	-.0894	-.0801	-.0808

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(6) = 3.415 BETAO (4) = 3.721

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5840	.6098	.5829	.5491	.5265
.025	-.1099	-.1109	-.0846	-.0659	-.0701
.050	-.1024	-.0956	-.0747	-.0623	-.0740
.150	-.0264	-.0510	-.0439	-.0319	-.0352
.300	.0080	-.0414	-.0230	-.0191	-.0263
.520	-.0248	.0039	-.0386	-.0032	-.0224
.685	-.1298	.0000	-.1505	-.1428	-.1401
.775	-.1504	-.1501	.0000	-.1533	-.1508
.900		-.1544	-.1438	-.1508	-.1508

ALPHAO(6) = 3.418 BETAO (5) = 8.394

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5330	.5874	.5454	.4378	.4380
.025	-.0785	-.1201	-.1263	-.1174	-.1137
.050	-.0838	-.1037	-.1384	-.1302	-.1379
.150	-.0639	-.0823	-.1015	-.0880	-.0941
.300	-.0938	-.0621	-.0752	-.0667	-.0681
.520	-.0408	-.0607	-.0802	-.0389	-.0574
.685	-.1528	.0000	-.1585	-.1600	-.1550
.775	-.1603	-.1547	.0000	-.1660	-.1660
.900		-.1675	-.1596	-.1600	-.1664

ALPHAO(7) = 8.122 BETAO (1) = -4.040

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5300	.5725	.5502	.5263	.5024
.025	.2052	.2211	.2215	.2091	.1748
.050	.2009	.2860	.2624	.2342	.2175
.150	.1596	.2240	.2621	.2674	.2583
.300	.1097	.1893	.1818	.2716	.2498
.520	.0836	.1604	.1920	.2289	.2248
.685	-.1158	.0000	-.0432	-.0239	-.0292
.775	-.1352	-.0834	.0000	-.0274	-.0405
.900		-.0972	-.0456	-.0423	-.0366

ARC97-019 IA81 LVAP(ALLML SEALED) LEFT VERTICAL (RETV38)

ALPHAO(7) = 8.126 BETAO (2) = -1.890

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5302	.5590	.5584	.5218	.5013
.025	.1729	.1503	.1046	.0587	-.0026
.050	.2112	.2013	.1230	.0742	.0375
.150	.2357	.2478	.2213	.1145	.0947
.300	.1722	.1848	.2599	.2139	.1628
.520	.0642	.1054	.1563	.1680	.1621
.685	-.1162	.0000	-.0746	-.0541	-.0534
.775	-.1318	-.1125	.0000	-.0626	-.0690
.900		-.1142	-.0792	-.0729	-.0708

ALPHAO(7) = 8.130 BETAO (3) = .192

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.4861	.5623	.5523	.5097	.4974
.025	-.0525	.0352	.0406	-.0230	-.0363
.050	.0065	.0402	.0445	-.0046	-.0239
.150	.1843	.1265	.0966	.0399	.0226
.300	.2135	.1891	.1757	.0579	.0492
.520	.0690	.0749	.1202	.1198	.0971
.685	-.1224	.0000	-.0824	-.0729	-.0764
.775	-.1455	-.1245	.0000	-.0892	-.0895
.900		-.1291	-.1001	-.1002	-.0931

ALPHAO(7) = 8.133 BETAO (4) = 2.291

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	6000	.9400	.9250
X/CV					
.000	.5948	.5868	.5429	.4998	.4863
.025	-.1187	-.0994	-.0779	-.0531	-.0621
.050	-.1008	-.0863	-.0626	-.0449	-.0586
.150	.0210	-.0275	-.0201	-.0180	-.0234
.300	.1225	.0540	.0104	-.0059	-.0174
.520	.0323	.0494	.0781	.0050	-.0192
.685	-.1057	.0000	-.1087	-.1318	-.1384
.775	-.1423	-.1452	.0000	-.1307	-.1463
.900		-.1518	-.1179	-.1243	-.1387

ARC97-019 IA6: LVAP(ALL HL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(7) = 6.136 BETAO (6) = 3.707

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5093	.5512	.5348	.4748	.4598
.025	-.0878	-.1038	-.1038	-.0868	-.0902
.050	-.0942	-.0882	-.0998	-.0879	-.0995
.150	-.0297	-.0730	-.0695	-.0550	-.0579
.300	-.0176	-.0493	-.0514	-.0415	-.0448
.520	-.0548	-.0443	-.0620	-.0220	-.0416
.685	-.1346	.0000	-.1601	-.1527	-.1495
.775	-.1481	-.1580	.0000	-.1627	-.1602
.900		-.1583	-.1548	-.1568	-.1609

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV39) (12 OCT 74)

REFERENCE DATA

SREF = 8090.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.600
ELV-IB = 000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAO(1) = -6.293 BETAO (1) = .408

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8043	.8298	.7687	.7445	.6455
.025	.2625	.2020	.0659	.0432	-.0123
.050	.4222	.3080	.0924	.0586	.0398
.150	.4811	.3331	.2840	.2824	.2764
.300	.3319	.2608	.2755	.2621	.2570
.520	.1801	.1854	.2172	.2190	.1973
.685	-.2414	.0000	-.2770	-.2339	-.2487
.775	-.1745	-.2721	.0000	-.2302	-.2639
.900		-.2622	-.2396	-.2457	-.2490

ALPHAO(2) = -4.229 BETAO (1) = -3.806

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7556	.6625	.6870	.6854	.6672
.025	.5609	.5493	.4940	.5011	.4920
.050	.5784	.5392	.4910	.4956	.4956
.150	.5078	.4440	.4194	.4362	.4184
.300	.3905	.3512	.3707	.3924	.3580
.520	.2423	.2656	.2902	.2773	.1988
.685	-.2321	.0000	-.2443	-.2197	-.2497
.775	-.2083	-.2365	.0000	-.2024	-.2563
.900		-.2410	-.2007	-.2295	-.2448

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV39)

ALPHAO(2) = -4.210 BETAO (2) = .382

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.7566	.8006	.7344	.6889	.5958
.025	.1774	.1787	.0371	.0328	-.0214
.050	.3761	.2803	.0605	.0296	.0132
.150	.4499	.3055	.2546	.2559	.2507
.300	.2962	.2335	.2464	.2348	.2276
.520	.1577	.1579	.1913	.1926	.1644
.685	-.2502	.0000	-.2859	-.2471	-.2615
.775	-.1740	-.2820	.0000	-.2396	-.2755
.900		-.2690	-.2524	-.2578	-.2621

ALPHAO(2) = -4.235 BETAO (3) = 3.933

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7227	.6518	.6378	.5962	.4624
.025	-.0088	-.0419	-.2054	-.3573	-.3978
.050	.0337	-.0533	-.2725	-.3282	-.3542
.150	.0838	-.0087	-.0556	-.2295	-.2360
.300	.2076	.0409	.0315	-.0585	-.1177
.520	.0748	.0732	.0140	.1042	.1307
.685	-.2294	.0000	-.2703	-.2802	-.2594
.775	-.1672	-.2764	.0000	-.2662	-.2733
.900		-.2279	-.2693	-.2727	-.2707

ALPHAO(3) = -.028 BETAO (1) = -5.881

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6643	.5787	.5970	.5863	.5813
.025	.5511	.5414	.5165	.5100	.5090
.050	.5450	.5178	.4962	.4897	.5012
.150	.4626	.4221	.4221	.4224	.4080
.300	.3613	.3297	.3732	.3780	.3451
.520	.2214	.2560	.2830	.2673	.1705
.685	-.2529	.0000	-.2453	-.2286	-.2507
.775	-.2231	-.2291	.0000	-.2023	-.2533
.900		-.2333	-.1975	-.2331	-.2428

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV39)

ALPHAO(3) = -.024 BETAO (2) = -3.944

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8834	.5781	.6083	.5986	.5814
.025	.4898	.4908	.4363	.4466	.4318
.050	.5204	.4773	.4295	.4360	.4379
.150	.4418	.3763	.3595	.3805	.3679
.300	.3111	.2872	.3156	.3398	.3169
.520	.1870	.2114	.2417	.2488	.1653
.685	-.2654	.0000	-.2608	-.2400	-.2611
.775	-.2031	-.2560	.0000	-.2160	-.2660
.900		-.2589	-.2217	-.2452	-.2572

ALPHAO(3) = -.022 BETAO (3) = .347

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6728	.7103	.6410	.5938	.5093
.025	.0521	.1302	-.0032	-.0039	-.0558
.050	.2645	.2049	.0229	-.0122	-.0286
.150	.3862	.2500	.1947	.2012	.1987
.300	.2354	.1800	.2012	.1800	.1803
.520	.1013	.1052	.1376	.1444	.1248
.685	-.2657	.0000	-.3004	-.2696	-.2839
.775	-.1736	-.3007	.0000	-.2583	-.2948
.900		-.2547	-.2724	-.2777	-.2848

ALPHAO(3) = .001 BETAO (4) = 3.898

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6278	.5799	.5894	.5277	.4075
.025	-.0715	-.1025	-.1890	-.3541	-.3943
.050	-.0282	-.1067	-.2128	-.3287	-.3472
.150	.0105	-.0550	-.0409	-.2118	-.2376
.300	.1918	.0985	.0158	.0398	-.0470
.520	.0602	.0789	.0164	.0528	.1043
.685	-.2464	.0000	-.3023	-.2916	-.2770
.775	-.1703	-.3049	.0000	-.2884	-.2909
.900		-.2411	-.2885	-.2928	-.2903

ARC97-019 IAB1 LVAP(ALL HL SEALED) LEFT VERTICAL (RETV39)

ALPHAO(3) = .014 BETAO (6) = 6.597

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6300	.5637	.5378	.4503	.3415
.025	-.0701	-.1884	-.2608	-.4000	-.4409
.050	-.0417	-.2013	-.2682	-.3943	-.4357
.150	-.0388	-.1594	-.2009	-.3360	-.3424
.300	.0315	-.0703	-.1279	-.2180	-.2578
.520	.0199	.0089	-.1582	-.0938	-.0909
.685	-.2013	.0000	-.3428	-.3763	-.3582
.775	-.2023	-.3187	.0000	-.3647	-.3582
.900		-.2604	-.3341	-.3644	-.3612

ALPHAO(4) = 3.553 BETAO (1) = -3.877

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5871	.5009	.5465	.5339	.5030
.025	.3187	.3809	.3478	.3507	.3223
.050	.3989	.3813	.3523	.3527	.3467
.150	.3630	.2984	.2913	.3032	.2933
.300	.2552	.2267	.2534	.2678	.2544
.520	.1340	.1451	.1849	.2001	.1297
.685	-.2713	.0000	-.2824	-.2590	-.2774
.775	-.1900	-.2798	.0000	-.2373	-.2845
.900		-.2547	-.2486	-.2664	-.2777

ALPHAO(4) = 3.584 BETAO (2) = .381

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8277	.6027	.5807	.5001	.4317
.025	-.0955	.0528	-.0274	-.0325	-.0774
.050	.1870	.0518	-.0283	-.0370	-.0809
.150	.2828	.1951	.1530	.1472	.1398
.300	.1720	.1353	.1485	.1308	.1347
.520	.0578	.0595	.0949	.0939	.0856
.685	-.2824	.0000	-.3197	-.2853	-.3014
.775	-.1812	-.3213	.0000	-.2779	-.3140
.900		-.2457	-.2985	-.2989	-.3069

ARC87-018 IABI LVAP(ALL HL SEALED) LEFT VERTICAL (RETV38)

ALPHAO(4) = 3.875 BETAO (3) = 3.908

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.4888	.5307	.5193	.4484	.3811
.025	.0184	-.1213	-.2224	-.3555	-.3988
.050	.0544	-.1345	-.2372	-.3349	-.3524
.150	.1243	-.0282	-.0530	-.2166	-.2478
.300	.0858	.0692	.0039	.0136	-.0082
.520	-.0278	-.0006	.0048	.0170	.0737
.685	-.2109	.0000	-.3227	-.3059	-.2972
.775	-.2070	-.2841	.0000	-.3030	-.3088
.900		-.2339	-.3195	-.3124	-.3085

ALPHAO(5) = 6.255 BETAO (1) = .393

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6150	.5705	.5153	.4592	.3976
.025	-.0477	.0451	-.0270	-.0379	-.0822
.050	.2128	.0457	-.0388	-.0421	-.0681
.150	.2547	.1776	.1292	.1231	.1160
.300	.1562	.1118	.1231	.1090	.1134
.520	.0370	.0418	.0727	.0768	.0837
.685	-.2750	.0000	-.3290	-.2910	-.3088
.775	-.1752	-.3283	.0000	-.2868	-.3210
.900		-.2187	-.3048	-.3076	-.3152

ARC67-319 1A81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV40) (12 OCT 74)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 878.0000 IN. XT
LREF = 1287.0000 INCHES YMRP = .0000 IN. YT
BREF = 1287.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 8.000 RN/FT = 2.500
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPOBRK = .000

ALPHAO(1) = -8.298 BETAO (1) = .072

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7888	.8303	.8341	.8113	.7493
.025	.0323	.3539	.1756	.1170	.0776
.050	.1719	.3490	.1776	.1448	.1214
.150	.5030	.4293	.3516	.3398	.3723
.300	.3643	.3164	.3480	.3376	.3445
.520	.2261	.2391	.2849	.3062	.3183
.685	-.1162	.0000	-.0922	-.0684	-.0789
.775	-.1470	-.1112	.0000	-.0605	-.0927
.900		-.1302	-.0827	-.0759	-.0957

ALPHAO(2) = -4.312 BETAO (1) = -4.221

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7425	.7520	.7458	.7534	.7199
.025	.4708	.5064	.5269	.5220	.4859
.050	.5148	.5997	.5259	.5276	.5161
.150	.5207	.4882	.4623	.4728	.4618
.300	.4005	.3763	.4308	.4314	.4078
.520	.2879	.3087	.3628	.3932	.3402
.685	-.1033	.0000	-.0698	-.0419	-.0508
.775	-.1214	-.0897	.0000	-.0300	-.0613
.900		-.1047	-.0461	-.0584	-.0557

ARC97-019 1A81 LVAP(ALLH SEALED) LEFT VERTICAL (RETV40)

ALPHAO(2) = -4.280 BETAO (2) = .038

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7380	.7858	.7714	.7520	.6873
.025	.0142	.2687	.1512	.1070	.0593
.050	.1418	.2720	.1518	.1261	.1009
.150	.4221	.4151	.3172	.3221	.3287
.300	.3280	.2836	.2984	.3080	.3092
.520	.1901	.2085	.2553	.2732	.2772
.685	-.1331	.0000	-.1044	-.0856	-.0919
.775	-.1588	-.1269	.0000	-.0780	-.1057
.900		-.1446	-.0985	-.0930	-.1087

ALPHAO(2) = -4.260 BETAO (3) = 3.804

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7274	.7392	.7016	.6836	.6268
.025	-.0409	-.0977	-.1757	-.1592	-.1653
.050	.0263	-.0967	-.1418	-.1385	-.1575
.150	.0801	.0607	-.0907	-.0601	-.0607
.300	.1586	.1272	.0844	-.0206	-.0138
.520	.1137	.1094	.1266	.0205	.0298
.685	-.1686	.0000	-.1536	-.1780	-.1823
.775	-.1758	-.1655	.0000	-.1545	-.1856
.900		-.1767	-.1038	-.1400	-.1714

ALPHAO(3) = -.277 BETAO (1) = -8.251

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6040	.5981	.5911	.5893	.6203
.025	.5075	.6180	.5872	.5838	.5704
.050	.4823	.5817	.5397	.5469	.5842
.150	.4878	.4528	.4538	.4751	.4828
.300	.3509	.3647	.4171	.4345	.4287
.520	.2510	.2880	.3841	.3644	.3202
.685	-.1222	.0000	-.0648	-.0272	-.0569
.775	-.1357	-.0827	.0000	-.0232	-.0035
.900		-.1083	-.0439	-.0542	-.0605

ARC97-019 IABI LVAP(ALLHL SEALED) LEFT VERTICAL (RETV40)

ALPHAO(3) = -.075 BETAO (2) = -4.195

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6421	.6844	.6388	.6352	.6074
.025	.3965	.5204	.4688	.4685	.4413
.050	.4208	.5339	.4816	.4842	.4590
.150	.4024	.4258	.3914	.4101	.4049
.300	.3257	.3128	.3602	.3868	.3956
.520	.2209	.2457	.3014	.3257	.2928
.685	-.1365	.0000	-.0895	-.0578	-.0728
.775	-.1533	-.1060	.0000	-.0498	-.0869
.900		-.1290	-.0872	-.0777	-.0823

ALPHAO(3) = -.072 BETAO (3) = .017

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6419	.6596	.6740	.6307	.5963
.025	-.0185	.1549	.1129	.0991	.0411
.050	.0986	.1708	.1143	.0991	.0820
.150	.3224	.3847	.2629	.2675	.2634
.300	.2654	.2235	.2379	.2455	.2492
.520	.1322	.1573	.1908	.2130	.2103
.685	-.1587	.0000	-.1285	-.1067	-.1146
.775	-.1722	-.1446	.0000	-.1020	-.1281
.900		-.1617	-.1186	-.1159	-.1307

ALPHAO(3) = -.094 BETAO (4) = 3.988

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8329	.8588	.8033	.8388	.8147
.025	-.0880	-.1432	-.2145	-.1917	-.1911
.050	-.0474	-.1409	-.1921	-.1805	-.1921
.150	.0041	-.0382	-.1278	-.1133	-.1102
.300	.0500	.0573	-.0842	-.0751	-.0659
.520	.0424	.0537	.0715	-.0378	-.0325
.685	-.1934	.0000	-.1720	-.2153	-.2083
.775	-.1788	-.1904	.0000	-.2098	-.2138
.900		-.2013	-.1848	-.1822	-.2080

ARC97-019 IA81 LVAPIALLHL SEALED) LEFT VERTICAL (RETV40)

ALPHAO(3) = -.044 BETAO (5) = 8.274

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5948	.5788	.5494	.4792	.4593
.025	-.0868	-.1357	-.1959	-.2235	-.2187
.050	-.0922	-.1380	-.1965	-.2324	-.2389
.150	-.0928	-.1380	-.1785	-.1735	-.1708
.300	-.1324	-.0772	-.0850	-.1403	-.1277
.520	.0354	-.0791	-.0903	-.0980	-.0927
.685	-.2013	.0000	-.2281	-.2461	-.2376
.775	-.1851	-.2107	.0000	-.2511	-.2478
.900		-.2173	-.2212	-.2475	-.2442

ALPHAO(4) = 3.485 BETAO (1) = -4.189

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5805	.5517	.5479	.5377	.5056
.025	.2188	.3382	.4160	.4192	.3987
.050	.2693	.4103	.4038	.4117	.4063
.150	.2423	.3431	.3356	.3539	.3471
.300	.2079	.2389	.3047	.3067	.3007
.520	.1251	.1770	.2353	.2699	.2415
.685	-.1789	.0000	-.1126	-.0733	-.0915
.775	-.1816	-.1359	.0000	-.0730	-.1008
.900		-.1563	-.0948	-.0945	-.0981

ALPHAO(4) = 3.478 BETAO (2) = .022

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6137	.5969	.5834	.5427	.4872
.025	-.0179	.2023	.1042	.0910	.0414
.050	.0924	.2000	.1075	.0956	.0745
.150	.3588	.2971	.2204	.2253	.2187
.300	.2188	.1753	.2085	.1983	.2028
.520	.0888	.1200	.1473	.1831	.1644
.685	-.1822	.0000	-.1447	-.1226	-.1286
.775	-.1806	-.1566	.0000	-.1209	-.1438
.900		-.1734	-.1371	-.1355	-.1421

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV40)

ALPHAO(4) = 3.487 BETAO (3) = 3.575

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.5813	.5472	.6149	.4398	.4123
.025	-.0891	-.1382	-.2255	-.2111	-.2128
.050	-.0815	-.1395	-.2068	-.2081	-.2220
.150	-.0418	-.0845	-.1509	-.1473	-.1485
.300	.0065	-.0385	-.1085	-.1138	-.1042
.520	-.0396	-.0039	.0388	-.0712	-.0712
.695	-.1676	.0000	-.1828	-.2316	-.2230
.775	-.1735	-.2065	.0000	-.2183	-.2286
.900		-.1933	-.1950	-.1986	-.2263

ALPHAO(5) = 6.162 BETAO (1) = .040

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.6175	.5684	.5435	.5028	.4574
.025	-.0371	.0977	.0784	.0817	.0324
.050	.0667	.1026	.0922	.0846	.0599
.150	.3175	.2414	.2009	.1999	.1923
.300	.1794	.1545	.1634	.1756	.1798
.520	.0621	.0898	.1258	.1434	.1471
.695	-.1822	.0000	-.1542	-.1291	-.1307
.775	-.1768	-.1723	.0000	-.1278	-.1463
.900		-.1829	-.1458	-.1410	-.1436

ARC97-019 IA81 LVAP(ALLH SEALED) LEFT VERTICAL (RETV41) (12 OCT 7)

REFERENCE DATA

SREF =	2890.0000	SQ.FT.	XMRP =	978.0000	IN. XT
LREF =	1297.0000	INCHES	YMRP =	.0000	IN. YT
BREF =	1297.0000	INCHES	ZMRP =	400.0000	IN. ZT
SCALE =	.0300	SCALE			

PARAMETRIC DATA

MACH =	2.200	RN/FT =	2.500
ELV-IB =	.000	ELV-OB =	.000
RUDDER =	.000	SPOBRK =	.000

ALPHAO(1) = -8.332 BETAO (1) = -.112

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7440	.8672	.8083	.8538	.8048
.025	.0750	.2064	.1868	.1380	.0568
.050	.1894	.2272	.2093	.1628	.1228
.150	.4483	.4961	.3992	.3445	.2691
.300	.3907	.3452	.3771	.3493	.3532
.520	.2384	.2535	.2936	.3174	.3168
.695	-.0817	.0000	-.0597	-.0317	-.0392
.775	-.1076	-.0679	.0000	-.0280	-.0532
.900		-.0896	-.0465	-.0396	-.0610

ALPHAO(2) = -4.327 BETAO (1) = -4.351

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7560	.7895	.7831	.7881	.7804
.025	.4549	.5391	.5345	.5196	.4808
.050	.5110	.6090	.5402	.5318	.5184
.150	.4847	.5172	.4712	.4841	.4771
.300	.4239	.3870	.4415	.4421	.4358
.520	.3030	.3192	.3738	.4097	.3788
.695	-.0638	.0000	-.0254	.0124	.0015
.775	-.0847	-.0404	.0000	.0172	-.0165
.900		-.0573	-.0088	-.0084	-.0131

ARC97-019 IAB1 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV41)

ALPHAO(2) = -4.302 BETAO (2) = -.140

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6839	.6052	.8173	.7858	.7451
.025	.0566	.1219	.1845	.1079	.0252
.050	.1599	.1358	.1781	.1323	.0898
.150	.3799	.4392	.3541	.2798	.2123
.300	.3551	.3094	.3362	.3114	.3161
.520	.2024	.2178	.2595	.2800	.2882
.685	-.0981	.0000	-.0658	-.0470	-.0525
.775	-.1198	-.0821	.0000	-.0447	-.0665
.900		-.1014	-.0624	-.0569	-.0740

ALPHAO(2) = -4.281 BETAO (3) = 3.415

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7384	.7688	.7607	.7279	.6882
.025	-.0516	-.0812	-.1131	-.0802	-.0868
.050	.0007	-.0516	-.0843	-.0555	-.0711
.150	.1043	.0397	-.0132	.0051	.0072
.300	.1685	.1668	.0370	.0258	.0324
.520	.1217	.1275	.1603	.0470	.0405
.685	-.1297	.0000	-.1073	-.1507	-.1429
.775	-.1528	-.1321	.0000	-.1511	-.1511
.900		-.1402	-.1165	-.1300	-.1490

ALPHAO(3) = -.145 BETAO (1) = -8.442

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6275	.6537	.5970	.6398	.6436
.025	.4978	.6342	.5623	.5623	.5582
.050	.4753	.6382	.5377	.5502	.5585
.150	.4255	.5006	.4518	.4885	.4832
.300	.3684	.3661	.4201	.4413	.4309
.520	.2774	.3117	.3674	.3958	.3544
.685	-.0607	.0000	-.0260	.0122	-.0095
.775	-.1041	-.0419	.0000	.0088	-.0207
.900		-.0662	.0024	-.0116	-.0163

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETVN1)

ALPHAO(3) = -.137 BETAO (2) = -4.372

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6564	.6749	.6494	.6663	.6417
.025	.3684	.3993	.4411	.4607	.4314
.050	.4053	.4543	.4530	.4651	.4574
.150	.3626	.4705	.4037	.4172	.4121
.300	.3422	.3333	.3817	.3752	.3690
.520	.2414	.2683	.3133	.3384	.3122
.685	-.0938	.0000	-.0496	-.0142	-.0230
.775	-.1159	-.0682	.0000	-.0125	-.0380
.900		-.0902	-.0293	-.0349	-.0363

ALPHAO(3) = -.130 BETAO (3) = -.176

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5851	.6913	.6913	.6816	.6252
.025	.0143	.1004	.1178	.0704	-.0022
.050	.1038	.1147	.1300	.0894	.0532
.150	.2949	.3777	.2833	.2105	.1532
.300	.2799	.2396	.2728	.2451	.2457
.520	.1371	.1510	.1909	.2103	.2161
.685	-.1242	.0000	-.0947	-.0747	-.0784
.775	-.1442	-.1066	.0000	-.0764	-.0910
.900		-.1239	-.0920	-.0862	-.0975

ALPHAO(3) = -.117 BETAO (4) = 3.384

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6405	.6490	.6444	.5988	.5677
.025	-.0826	-.1162	-.1340	-.1120	-.1151
.050	-.0466	-.0826	-.1106	-.0971	-.1086
.150	.0397	-.0367	-.0478	-.0442	-.0406
.300	.0539	.0860	-.0154	-.0238	-.0174
.520	.0563	.0660	.0818	-.0042	-.0065
.685	-.1560	.0000	-.1266	-.1702	-.1630
.775	-.1651	-.1615	.0000	-.1739	-.1732
.900		-.1683	-.1405	-.1719	-.1709

ARC97-019 IAB1 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV41)

ALPHAO(3) = -.112 BETAO (5) = 8.096

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6344	.6279	.5802	.5423	.5181
.025	-.0738	-.1113	-.1754	-.1520	-.1483
.050	-.0749	-.1106	-.1778	-.1544	-.1619
.150	-.0487	-.0815	-.1235	-.1048	-.1020
.300	-.0855	-.0130	-.0876	-.0832	-.0731
.520	.0356	-.0262	-.0649	-.0564	-.0500
.685	-.1677	.0000	-.1805	-.1980	-.1888
.775	-.1762	-.1676	.0000	-.1994	-.1994
.900		-.1805	-.1656	-.1912	-.1900

ALPHAO(4) = 3.395 BETAO (1) = -4.356

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5657	.5863	.5579	.5332	.5221
.025	.2343	.3239	.4179	.4183	.4034
.050	.2845	.3548	.4105	.4115	.4125
.150	.2329	.3841	.3475	.3624	.3606
.300	.2163	.2742	.3335	.3213	.3157
.520	.1507	.2000	.2634	.2837	.2716
.685	-.1349	.0000	-.0676	-.0305	-.0386
.775	-.1492	-.0988	.0000	-.0346	-.0512
.900		-.1154	-.0605	-.0518	-.0505

ALPHAO(5) = 3.403 BETAO (2) = -.170

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5467	.6057	.5853	.5298	.5103
.025	.0278	.1583	.1295	.0990	.0301
.050	.1162	.1638	.1471	.1024	.0837
.150	.3358	.3245	.2439	.2053	.1757
.300	.2278	.1982	.2321	.1969	.1374
.520	.0959	.1115	.1545	.1842	.1628
.685	-.1418	.0000	-.1116	-.0883	-.0890
.775	-.1587	-.1231	.0000	-.0914	-.1045
.900		-.1356	-.1095	-.1018	-.1067

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV41)

ALPHAO(4) = 3.411 BETAO (3) = 3.387

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.5653	.5730	.5453	.4862	.4490
.025	-.0965	-.1240	-.1527	-.1422	-.1460
.050	-.0870	-.1115	-.1381	-.1357	-.1518
.150	-.0432	-.0832	-.0862	-.0845	-.0879
.300	-.0021	-.0242	-.0513	-.0608	-.0589
.520	-.0198	-.0028	-.0544	-.0378	-.0423
.685	-.1502	.0000	-.1469	-.1865	-.1773
.775	-.1631	-.1781	.0000	-.1902	-.1868
.900		-.1781	-.1581	-.1899	-.1875

ALPHAO(5) = 8.079 BETAO (1) = -.145

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.8250
X/CV					
.000	.5656	.5720	.5414	.4874	.4540
.025	.0549	.1576	.1315	.0997	.0438
.050	.1481	.1526	.1491	.1058	.0774
.150	.3379	.2784	.2192	.1979	.1650
.300	.1966	.1654	.2067	.1769	.1769
.520	.0566	.0888	.1329	.1423	.1423
.685	-.1474	.0000	-.1177	-.0954	-.0964
.775	-.1552	-.1390	.0000	-.0984	-.1123
.900		-.1481	-.1187	-.1093	-.1113

ARC97-019 1AB1 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV42) (12 OCT 74)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	976.0000 IN. XT		
LREF =	1297.0000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1297.0000 INCHES	ZMRP =	400.0000 IN. ZT		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

MACH =	2.500	RN/FT =	2.500
ELV-IB =	.000	ELV-OB =	.000
RUDDER =	.000	SPDBRK =	.000

ALPHAO(1) = -8.278 BETAO (1) = .222

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.7758	.9313	.9451	.8887	.8488
.025	.0859	.0543	.0723	.0868	.0594
.050	.1684	.1275	.1450	.1235	.1050
.150	.3611	.3355	.1912	.1848	.1730
.300	.3994	.3820	.3897	.2170	.2007
.520	.2319	.2484	.3089	.3172	.2193
.685	-.0487	.0000	-.0186	.0141	.0203
.775	-.0753	-.0448	.0000	.0097	-.0063
.900		-.0575	-.0175	-.0034	-.0140

ALPHAO(2) = -4.238 BETAO (1) = -3.999

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7956	.8335	.8738	.8617	.7932
.025	.3226	.2809	.3733	.3070	.2559
.050	.3877	.3357	.4267	.3545	.3160
.150	.4174	.5152	.4662	.4434	.4398
.300	.4015	.3995	.4484	.4187	.4173
.520	.2518	.2983	.3487	.3785	.3801
.685	-.0331	.0000	.0143	.0357	.0308
.775	-.0560	-.0084	.0000	.0364	.0127
.900		-.0275	.0157	.0200	.0091

AMC87-019 IA81 LVAP(ALL HL SEALED) LEFT VERTICAL (RETV42)

ALPHAO(2) = -4.215 BETAO (2) = .197

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7186	.8848	.8781	.8837	.8138
.025	.0486	.0401	.0342	.0788	.0807
.050	.1402	.1086	.1209	.1086	.0803
.150	.3217	.2936	.1877	.1801	.1540
.300	.3587	.3407	.3481	.1895	.1722
.520	.1932	.2029	.2671	.2620	.1838
.685	-.0623	.0000	-.0314	.0059	-.0021
.775	-.0910	-.0641	.0000	-.0050	-.0195
.900		-.0757	-.0347	-.0181	-.0243

ALPHAO(2) = -4.201 BETAO (3) = 3.750

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLC CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7651	.8326	.8511	.7841	.7529
.025	-.0549	-.0615	-.0380	-.0261	-.0269
.050	-.0278	-.0267	-.0138	-.0153	-.0254
.150	.1172	.0353	.0357	.0277	.0218
.300	.1443	.1162	.0689	.0487	.0385
.520	.1353	.1607	.0906	.0693	.0523
.685	-.0842	.0000	-.0655	-.1049	-.0958
.775	-.1128	-.0962	.0000	-.1125	-.1064
.900		-.0991	-.0637	-.1136	-.1045

ALPHAO(3) = -.088 BETAO (1) = -6.077

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6643	.6826	.6928	.6939	.6886
.025	.3786	.3955	.4666	.4800	.4483
.050	.4017	.4177	.4758	.4821	.4715
.150	.3445	.5038	.4134	.4351	.4301
.300	.3489	.3704	.4062	.3943	.3906
.520	.2448	.2854	.3324	.3583	.3350
.685	-.0551	.0000	.0041	.0385	.0261
.775	-.0808	-.0252	.0000	.0352	.0152
.900		-.0447	.0128	.0178	.0185

ARC97-019 !A81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV42)

ALPHAO(3) = -.087 BETAO (2) = -4.025

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7038	.6916	.7261	.7232	.6915
.025	.2595	.2345	.2195	.1960	.1378
.050	.3170	.3022	.2669	.2289	.1958
.150	.3192	.3360	.3718	.3324	.2920
.300	.2761	.2987	.3725	.3316	.3355
.520	.1795	.2369	.2810	.2999	.3018
.685	-.0642	.0000	-.0193	.0100	.0050
.775	- 0906	-.0414	.0000	.0053	-.0125
.900		-.0544	-.0160	-.0092	-.0125

ALPHAO(3) = -.082 BETAO (3) = .174

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6169	.7221	.7112	.7177	.6853
.025	-.0048	-.0012	.0129	.0353	.0176
.050	.0668	.0628	.0613	.0584	.0455
.150	.2377	.1411	.1144	.0960	.0955
.300	.2714	.2690	.2231	.1263	.1078
.520	.1308	.1447	.2029	.1339	.1067
.685	-.0839	.0000	-.0543	-.0226	-.0577
.775	-.1074	-.0872	.0000	-.0345	-.0581
.900		-.0944	-.0644	-.0476	-.0516

ALPHAO(3) = -.071 BETAO (4) = 3.720

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6801	.6828	.7105	.6877	.6595
.025	-.0804	.0847	-.0548	-.0305	-.0347
.050	-.0583	-.0627	-.0370	-.0215	-.0303
.150	.0478	-.0056	-.0030	.0100	.0124
.300	.0565	.0172	.0216	.0169	.0211
.520	.0630	.1001	.0042	.0342	.0211
.685	-.1141	.0000	-.1195	-.1214	-.1170
.775	-.1329	-.1235	.0000	-.1312	-.1283
.900		-.1286	-.0946	-.1301	-.1261

ARC97-019 IA81 LVAP(ALLML SEALED) LEFT VERTICAL (RETV42)

ALPHAO(3) = -.067 BETAO (5) = 6.427

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6456	.6320	.6275	.6002	.5851
.025	-.0456	-.0865	-.1053	-.0848	-.0792
.050	-.0482	-.0590	-.1126	-.0952	-.0987
.150	-.0149	-.0400	-.0860	-.0620	-.0598
.300	-.0290	-.0018	-.0306	-.0478	-.0429
.520	.0288	.0141	-.0361	-.0078	-.0296
.685	-.1157	.0000	-.1438	-.1382	-.1360
.775	-.1374	-.1219	.0000	-.1414	-.1440
.900		-.1331	-.1364	-.1324	-.1407

ALPHAO(4) = 3.400 BETAO (1) = -4.002

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6092	.6246	.6183	.5950	.5656
.025	.2201	.2295	.2131	.1854	.1384
.050	.2576	.2908	.2571	.2103	.1836
.150	.2222	.2643	.2801	.2715	.2476
.300	.1724	.2229	.3183	.2859	.2794
.520	.1259	.1858	.2483	.2537	.2490
.685	-.0903	.0000	-.0274	-.0039	-.0090
.775	-.1163	-.0613	.0000	-.0112	-.0242
.900		-.0757	-.0264	-.0271	-.0216

ALPHAO(4) = 3.413 BETAO (2) = .178

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5325	.5954	.6187	.5844	.5614
.025	-.0368	-.0104	-.0124	-.0005	-.0149
.050	.0186	.0309	.0350	.0154	.0038
.150	.1637	.0898	.0781	.0505	.0449
.300	.2248	.2184	.1785	.0804	.0858
.520	.0348	.1081	.1583	.0957	.0594
.685	-.0988	.0000	-.0745	-.0449	-.0699
.775	-.1211	-.1005	.0000	-.0605	-.0721
.900		-.1092	-.0628	-.0718	-.0725

ARC97-019 1A81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV42)

ALPHAO(4) = 3.420 BETAO (3) = 3.721

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5933	.6130	.6010	.5538	.5340
.025	-.1012	-.1023	-.0760	-.0583	-.0613
.050	-.0932	-.0867	-.0669	-.0557	-.0653
.150	-.0169	-.0427	-.0344	-.0247	-.0269
.300	.0146	-.0326	-.0171	-.0157	-.0171
.520	-.0158	.0118	-.0330	.0053	-.0135
.685	-.1193	.0000	-.1439	-.1342	-.1302
.775	-.1366	-.1417	.0000	-.1439	-.1418
.900		-.1457	-.1363	-.1418	-.1407

ALPHAO(5) = 6.075 BETAO (1) = .198

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3150	.6000	.8400	.9250
X/CV					
.000	.4918	.5680	.5603	.5142	.5041
.025	-.0406	.0426	.0501	-.0131	-.0277
.050	.0198	.0491	.0537	.0042	-.0133
.150	.1922	.1368	.1068	.0450	.0287
.300	.2204	.1964	.1686	.0761	.0570
.520	.0798	.0837	.1274	.1287	.1232
.685	-.1103	.0000	-.0742	-.0621	-.0701
.775	-.1316	-.1143	.0000	-.0792	-.0795
.900		-.1204	-.0915	-.0893	-.0835

ARC97-01B IAB1 LVAP(ALL#1 SEALED) LEFT VERTICAL (RETV43) (12 OCT 7+)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1897.0000 INCHES YMRP = .0000 IN. YT
BREF = 1897.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAO(1) = -8.299 BETAO (1) = .408

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.8065	.8278	.7718	.7425	.8448
.025	.2633	.2058	.0631	.0476	-.0057
.050	.4281	.3322	.0993	.0591	.0344
.150	.4809	.3355	.2842	.2885	.2740
.300	.3348	.2638	.3326	.2648	.2589
.520	.1818	.1868	.2187	.2253	.1927
.685	-.2381	.0000	-.2774	-.2297	-.2456
.775	-.1784	-.2638	.0000	-.2294	-.2628
.900		-.2815	-.2408	-.2439	-.2482

ALPHAO(2) = -4.227 BETAO (1) = -3.898

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.7442	.8625	.6820	.6781	.8554
.025	.5520	.5459	.4889	.4996	.4831
.050	.5746	.5350	.4842	.4882	.4680
.150	.5023	.4387	.4122	.4335	.4147
.300	.3857	.3454	.3978	.3903	.3547
.520	.2380	.2603	.2835	.2728	.1880
.685	-.2332	.0000	-.2452	-.2204	-.2488
.775	-.1897	-.2373	.0000	-.2020	-.2560
.900		-.2383	-.2005	-.2303	-.2452

ARC97-019 IA61 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV43)

ALPHAO(2) = -4.204 BETAO (2) = .384

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7520	.7980	.7310	.6848	.5818
.025	.1835	.1828	.0388	.0415	-.0263
.050	.3750	.2787	.0682	.0373	.0078
.150	.4482	.3070	.2537	.2534	.2505
.300	.2871	.2327	.3060	.2378	.2295
.520	.1575	.1577	.1975	.1958	.1030
.685	-.2530	.0000	-.2867	-.2451	-.2597
.775	-.1878	-.2834	.0000	-.2401	-.2759
.900		-.2718	-.2547	-.2577	-.2620

ALPHAO(2) = -4.189 BETAO (3) = 3.933

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7206	.6460	.6416	.5960	.4624
.025	-.0083	-.0432	-.2673	-.3604	-.3984
.050	.0388	-.0482	-.2811	-.3308	-.3545
.150	.0934	-.0154	-.0502	-.2252	-.2340
.300	.2026	.0445	.0540	-.0611	-.1172
.520	.0762	.0709	.0201	.0986	.1206
.685	-.2380	.0000	-.2702	-.2788	-.2545
.775	-.1688	-.2785	.0000	-.2670	-.2707
.900		-.2269	-.2709	-.2700	-.2713

ALPHAO(3) = -2.122 BETAO (1) = .375

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7099	.7482	.6909	.6391	.5445
.025	.1024	.1515	.0128	.0131	-.0405
.050	.3304	.2443	.0398	.0135	.0097
.150	.4133	.2804	.2244	.2283	.2216
.300	.2652	.2240	.2798	.2044	.2019
.520	.1283	.1273	.1611	.1694	.1369
.685	-.2634	.0000	-.2946	-.2573	-.2728
.775	-.1872	-.2936	.0000	-.2497	-.2860
.900		-.2713	-.2644	-.2675	-.2738

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV43)

ALPHAO(4) = -.030 BETAO (1) = -5.878

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6841	.5782	.5959	.6932	.5778
.025	.5445	.5429	.5146	.5084	.5093
.050	.5384	.5194	.4943	.4924	.4965
.150	.4619	.4184	.4184	.4262	.4071
.300	.3599	.3253	.4000	.3777	.3442
.520	.2221	.2575	.2798	.2658	.1633
.685	-.2523	.0000	-.2457	-.2246	-.2500
.775	-.2161	-.2296	.0000	-.2045	-.2543
.900		-.2339	-.1981	-.2332	-.2414

ALPHAO(4) = -.027 BETAO (2) = -3.845

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6836	.5806	.6084	.5931	.5764
.025	.4893	.4871	.4353	.4412	.4305
.050	.5156	.4705	.4278	.4340	.4432
.150	.4373	.3735	.3592	.3755	.3696
.300	.3107	.2850	.3462	.3397	.3181
.520	.1862	.2128	.2421	.2491	.1609
.685	-.2640	.0000	-.2608	-.2357	-.2590
.775	-.1934	-.2555	.0000	-.2164	-.2669
.900		-.2552	-.2213	-.2456	-.2574

ALPHAO(4) = -.030 BETAO (3) = -1.739

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.8000	.8400	.9250
X/CV					
.000	.6794	.6839	.6533	.8124	.5530
.025	.1888	.3304	.2510	.2585	.2389
.050	.3849	.3978	.3079	.3079	.2879
.150	.3687	.3244	.2828	.2923	.2791
.300	.2748	.2357	.3188	.2807	.2519
.520	.1520	.1558	.2029	.2171	.1557
.695	-.2760	.0000	-.2852	-.2471	-.2690
.775	-.1872	-.2813	.0000	-.2373	-.2863
.900		-.2794	-.2474	-.2645	-.2788

ARC97-019 IABI LVAP(ALLHL SEALED) LEFT VERTICAL (RETV43)

ALPHAO(4) = -.019 BETAO (4) = .351

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6705	.7054	.6398	.5816	.5044
.025	.0477	.1344	-.0014	-.0033	-.0582
.050	.2918	.1693	.0094	-.0030	-.0295
.150	.3840	.2474	.1975	.2017	.1981
.300	.2327	.1741	.2613	.1790	.1813
.520	.1030	.1025	.1420	.1459	.1232
.685	-.2712	.0000	-.2994	-.2681	-.2808
.775	-.1814	-.3004	.0000	-.2590	-.2939
.900		-.2650	-.2734	-.2779	-.2835

ALPHAO(4) = -.003 BETAO (5) = 2.455

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6489	.6779	.6171	.5450	.4435
.025	-.0771	.0258	-.2118	-.2834	-.3373
.050	.0950	-.0037	-.2267	-.2630	-.2827
.150	.2705	.1445	.0627	-.0662	-.1390
.300	.1975	.1183	.1481	.1019	.1112
.520	.0450	.0566	.0815	.0689	.0978
.685	-.2154	.0000	-.3100	-.2798	-.2785
.775	-.1554	-.3194	.0000	-.2752	-.2970
.900		-.2257	-.3058	-.2886	-.2899

ALPHAO(4) = .009 BETAO (6) = 3.897

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6252	.5789	.5898	.5260	.4038
.025	-.0744	-.1034	-.1914	-.3530	-.3941
.050	-.0256	-.1098	-.2121	-.3270	-.3456
.150	.0154	-.0622	-.0414	-.2 5	-.2456
.300	.1917	.0990	.0375	.0433	-.0404
.520	.0802	.0796	.0206	.0553	.1055
.685	-.2566	.0000	-.3014	-.2910	-.2768
.775	-.1759	-.3068	.0000	-.2882	-.2908
.900		-.2482	-.2910	-.2938	-.2915

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV43)

ALPHAO(4) = .019 BETAO (7) = 8.587

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6281	.5558	.5339	.4576	.3348
.025	-.0681	-.1892	-.2575	-.3999	-.4422
.050	-.0434	-.2008	-.2676	-.3944	-.4357
.150	-.0353	-.1569	-.1984	-.3352	-.3453
.300	.0404	-.0735	-.1110	-.2171	-.2582
.520	.0228	.0100	-.1553	-.0949	-.0881
.685	-.2833	.0000	-.3400	-.3739	-.3577
.775	-.2138	-.3222	.0000	-.3665	-.3583
.900		-.2634	-.3326	-.3542	-.3622

ALPHAO(5) = 2.072 BETAO (1) = .352

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6441	.6608	.5990	.5443	.4691
.025	-.0259	.1049	-.0178	-.0132	-.0564
.050	.2384	.1362	-.0096	-.0213	-.0401
.150	.3391	.2218	.1733	.1778	.1717
.300	.2020	.1529	.2383	.1587	.1633
.520	.0790	.0866	.1225	.1258	.0963
.685	-.2767	.0000	-.3084	-.2783	-.2917
.775	-.1770	-.3100	.0000	-.2689	-.3053
.900		-.2455	-.2844	-.2894	-.2959

ALPHAO(6) = 3.555 BETAO (1) = -3.814

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5852	.5018	.5476	.5383	.5028
.025	.3512	.3871	.3457	.3473	.3226
.050	.4181	.3800	.3509	.3512	.3452
.150	.3598	.2956	.2914	.3027	.2931
.300	.2556	.2247	.2817	.2887	.2556
.520	.1292	.1458	.1879	.2002	.1238
.685	-.2893	.0000	-.2815	-.2533	-.2767
.775	-.1831	-.2795	.0000	-.2402	-.2845
.900		-.2484	-.2497	-.2676	-.2780

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV43)

ALPHAO(6) = 3.660 BETAO (2) = .385

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6284	.6053	.5589	.5001	.4315
.025	-.0915	.0515	-.0225	-.0276	-.0729
.050	.1844	.0586	-.0324	-.0382	-.0600
.150	.2837	.1947	.1495	.1485	.1408
.300	.174	.1325	.2069	.1302	.1366
.520	.0566	.0589	.0987	.0978	.0833
.685	-.2785	.0000	-.3193	-.2859	-.2992
.775	-.1760	-.3218	.0000	-.2788	-.3143
.900		-.2324	-.2981	-.2995	-.3072

ALPHAO(6) = 3.678 BETAO (3) = 3.907

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.4949	.5329	.5144	.4468	.3506
.025	.0033	-.1256	-.2152	-.3361	-.3968
.050	.0461	-.1279	-.2390	-.3340	.3528
.150	.1195	-.0313	-.0557	-.2184	-.2473
.300	.0828	.0720	.0278	.0098	-.0238
.520	-.0853	-.0033	-.0017	.0184	.0739
.685	-.1963	.0000	-.3218	-.3040	-.2940
.775	-.1898	-.2688	.0000	-.3040	-.3085
.900		-.2200	-.3179	-.3121	-.3072

ALPHAO(7) = 8.256 BETAO (1) = .389

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6107	.6720	.5187	.4581	.3988
.025	-.0593	.0451	-.0257	-.0295	-.0863
.050	.2156	.0445	-.0401	-.0395	-.0821
.150	.2579	.1774	.1298	.1241	.1178
.300	.1563	.1135	.1778	.1071	.1168
.520	.0381	.0397	.0776	.0782	.0632
.685	-.2784	.0000	-.3287	-.2927	-.3063
.775	-.1732	-.3298	.0000	-.2872	-.3228
.900		-.2210	-.3055	-.3092	-.3166

ARC97-019 1A01 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV44) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = .000
RUDDER = .000 SPOBRK = .000

ALPHAO(1) = -8.299 BETAO (1) = .071

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7913	.8338	.8425	.8259	.7577
.025	.0439	.3888	.2148	.1660	.1068
.050	.1955	.3951	.2177	.1882	.1561
.150	.5192	.4402	.3801	.3778	.3764
.300	.3797	.3284	.4141	.3457	.3532
.520	.2438	.2545	.3013	.3168	.3268
.685	-.1090	.0000	-.0927	-.0581	-.0676
.775	-.1432	-.1061	.0000	-.0509	-.0844
.900		-.1241	-.0789	-.0696	-.0867

ALPHAO(2) = -4.258 BETAO (1) = -4.163

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7408	.7545	.7474	.7552	.7269
.025	.4793	.6012	.5369	.5326	.4956
.050	.6139	.5998	.6330	.6382	.5214
.150	.5253	.4887	.4678	.4809	.4653
.300	.4027	.3795	.4590	.4342	.4173
.520	.2985	.3091	.3728	.3989	.3812
.685	-.1010	.0000	-.0637	-.0331	-.0410
.775	-.1184	-.0765	.0000	-.0256	-.0571
.900		-.1007	-.0402	-.0489	-.0535

ARC97-019 IA8I LVAP(ALLHL SEALED) LEFT VERTICAL (RETV44)

ALPHAO(2) = -4.231 BETAO (2) = .037

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CF

Z/BV	.1570	.3160	.6000	.8400	.9250
X/CV					
.000	.7431	.7688	.7784	.7670	.7053
.025	.0235	.3048	.1884	.1462	.0906
.050	.1557	.3042	.1966	.1632	.1300
.150	.4339	.4223	.3355	.3421	.3378
.300	.3387	.2990	.3747	.3104	.3150
.520	.2055	.2260	.2699	.2833	.2849
.685	-.1241	.0000	-.1026	-.0775	-.0827
.775	-.1520	-.1180	.0000	-.0712	-.0968
.900		-.1392	-.0964	-.0868	-.0991

ALPHAO(2) = -4.258 BETAO (3) = 3.599

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7327	.7460	.7117	.6889	.6367
.025	-.0383	-.0897	-.1615	-.1530	-.1604
.050	.0376	-.0874	-.1285	-.1285	-.1490
.150	.0968	.0871	-.0773	-.0475	-.0487
.300	.1806	.1429	.1651	-.0083	.0028
.520	.1230	.1197	.1387	.0401	.0444
.685	-.1630	.0000	-.1452	-.1480	-.1726
.775	-.1724	-.1606	.0000	-.1345	-.1709
.900		-.1709	-.1560	-.1303	-.1470

ALPHAO(3) = -2.161 BETAO (1) = .037

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6874	.7115	.7125	.6998	.6483
.025	.0025	.2088	.1611	.1190	.0818
.050	.1220	.2130	.1507	.1340	.1037
.150	.3654	.3950	.3026	.3030	.2974
.300	.2971	.2551	.3228	.2802	.2831
.520	.1685	.1989	.2420	.2481	.2474
.685	-.1409	.0000	-.1142	-.0930	-.1012
.775	-.1631	-.1289	.0000	-.0874	-.1146
.900		-.1491	-.1070	-.1031	-.1149

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV44)

ALPHAO(4) = -.093 BETAO (1) = -6.250

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6081	.5951	.5919	.6004	.6222
.025	.5064	.6162	.5682	.5643	.5721
.050	.4849	.5808	.5389	.5470	.5638
.150	.4901	.4530	.4550	.4781	.4849
.300	.3508	.3626	.4355	.4345	.4293
.520	.2521	.2868	.3730	.3889	.3167
.685	-.1219	.0000	-.0665	-.0299	-.0567
.775	-.1366	-.0845	.0000	-.0253	-.0649
.900		-.1089	-.0463	-.0564	-.0607

ALPHAO(4) = -.091 BETAO (2) = -4.198

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6417	.6683	.6363	.6369	.6044
.025	.3948	.5213	.4715	.4715	.4451
.050	.4192	.5324	.4617	.4682	.4623
.150	.4058	.4266	.3934	.4152	.4061
.300	.3268	.3121	.3794	.3703	.3567
.520	.2223	.2499	.3047	.3300	.2956
.685	-.1359	.0000	-.0889	-.0533	-.0716
.775	-.1523	-.1052	.0000	-.0497	-.0880
.900		-.1283	-.0677	-.0775	-.0818

ALPHAO(4) = -.090 BETAO (3) = -2.083

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6540	.6482	.6618	.6310	.6160
.025	.1988	.3112	.3222	.2979	.2721
.050	.3232	.4043	.3671	.3329	.3323
.150	.3602	.3887	.3329	.3203	.3469
.300	.2848	.2848	.3255	.2992	.3118
.520	.1796	.2138	.2542	.2910	.2557
.685	-.1436	.0000	-.1121	-.0695	-.0852
.775	-.1596	-.1193	.0000	-.0875	-.1038
.900		-.1401	-.1020	-.0894	-.1009

ARC87-019 1A81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV44)

ALPHAO(4) = -.077 BETAO (4) = .009

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8425	.8568	.6726	.8304	.5920
.025	-.0192	.1566	.1107	.1026	.0410
.050	.0966	.1651	.1104	.1071	.0822
.150	.3225	.3677	.2841	.2827	.2607
.300	.2660	.2234	.2626	.2445	.2492
.520	.1322	.1576	.1970	.2117	.2094
.685	-.1579	.0000	-.1283	-.1074	-.1149
.775	-.1723	-.1439	.0000	-.1031	-.1293
.900		-.1622	-.1221	-.1172	-.1319

ALPHAO(4) = -.067 BETAO (5) = 2.124

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8477	.8600	.6516	.8000	.5628
.025	-.1201	-.0907	-.0808	-.1248	-.1459
.050	-.0447	-.0741	-.0666	-.0884	-.1152
.150	.1792	.1995	.0565	-.0135	-.0126
.300	.2115	.1933	.2175	.0780	.0443
.520	.0914	.0966	.1370	.1616	.1832
.685	-.1648	.0000	-.1497	-.1250	-.1162
.775	-.1693	-.1735	.0000	-.1309	-.1342
.900		-.1826	-.1500	-.1400	-.1342

ALPHAO(4) = -.059 BETAO (6) = 3.572

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8331	.8584	.6023	.5354	.5143
.025	-.0881	-.1433	-.2139	-.1911	-.1907
.050	-.0470	-.1384	-.1911	-.1800	-.1910
.150	.0040	-.0398	-.1259	-.1132	-.1093
.300	.0507	.0578	-.0523	-.0754	-.0652
.520	.0445	.0528	.0781	-.0371	-.0312
.685	-.1948	.0000	-.1709	-.2128	-.2077
.775	-.1848	-.1891	.0000	-.2090	-.2119
.900		-.2018	-.1852	-.1829	-.2067

ARC97-018 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV44)

ALPHAO(4) = -.053 BETAO (7) = 8.278

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5942	.5783	.5455	.4754	.4532
.025	-.0872	-.1371	-.1951	-.2248	-.2214
.050	-.0943	-.1397	-.1964	-.2339	-.2407
.150	-.0940	-.1418	-.1798	-.1769	-.1734
.300	-.1368	-.0790	-.0734	-.1411	-.1306
.520	.0340	-.0829	-.0933	-.1015	-.0959
.685	-.2041	.0000	-.2306	-.2469	-.2388
.775	-.1910	-.2127	.0000	-.2531	-.2502
.900		-.2199	-.2225	-.2469	-.2459

ALPHAO(5) = 1.987 BETAO (1) = .023

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6238	.6235	.6266	.5688	.5335
.025	-.0240	.1748	.1057	.0943	.0312
.050	.0919	.1843	.1057	.0930	.0688
.150	.3186	3375	.2353	.2383	.2361
.300	.2414	.1933	.2562	.2148	.2237
.520	.1043	.1262	.1647	.1832	.1816
.685	-.1683	.0000	-.1393	-.1138	-.1214
.775	-.1768	-.1510	.0000	-.1110	-.1365
.900		-.1685	-.1292	-.1237	-.1348

ALPHAO(6) = 3.466 BETAO (1) = -4.234

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5589	.5518	.5487	.5377	.5048
.025	.2118	.3281	.4129	.4178	.3957
.050	.2705	.3940	.4022	.4103	.4045
.150	.2339	.3434	.3343	.3547	.3460
.300	.2048	.2402	.3248	.3057	.2995
.520	.1234	.1760	.2380	.2708	.2352
.685	-.1802	.0000	-.1131	-.0717	-.0927
.775	-.1831	-.1369	.0000	-.0727	-.1021
.900		-.1577	-.0981	-.0956	-.0978

ARC87-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV44)

ALPHAO(6) = 3.479 BETAO (2) = .019

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.6123	.5681	.5814	.5411	.4812
.025	-.0178	.1921	.0934	.0848	.0350
.050	.0898	.1983	.1032	.0843	.0651
.150	.3568	.2998	.2180	.2173	.2158
.300	.2192	.1740	.2473	.1974	.2080
.520	.0872	.1130	.1498	.1625	.1642
.685	-.1829	.0000	-.1459	-.1220	-.1259
.775	-.1848	-.1580	.0000	-.1203	-.1429
.900		-.1739	-.1397	-.1350	-.1418

ALPHAO(6) = 3.485 BETAO (3) = 3.581

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.5592	.5456	.5093	.4329	.4023
.025	-.0942	-.1449	-.2298	-.2158	-.2164
.050	-.0884	-.1482	-.2140	-.2133	-.2272
.150	-.0540	-.0809	-.1566	-.1556	-.1549
.300	.0015	-.0440	-.1115	-.1223	-.1117
.520	-.0429	-.0140	.0150	-.0826	-.0787
.685	-.1749	.0000	-.1875	-.2357	-.2272
.775	-.1828	-.2097	.0000	-.2364	-.2337
.900		-.2042	-.2019	-.2233	-.2314

ALPHAO(7) = 6.187 BETAO (1) = .048

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.6149	.5606	.5378	.4969	.4522
.025	-.0434	.0957	.0640	.0721	.0156
.050	.0577	.0947	.0741	.0710	.0480
.150	.3190	.2398	.1848	.1922	.1848
.300	.1775	.1455	.2264	.1713	.1774
.520	.0551	.0849	.1253	.1374	.1424
.685	-.1871	.0000	-.1575	-.1331	-.1340
.775	-.1874	-.1748	.0000	-.1317	-.1514
.900		-.1858	-.1500	-.1462	-.1484

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV45) (12 OCT 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.200 RN/FT = 2.500
ELV-IB = 0.000 ELV-OB = .000
RUDDER = .000 SPOBRK = .000

ALPHAO(1) = -0.332 BETAO (1) = -.120

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7410	.8674	.8883	.8487	.8038
.025	.0871	.2201	.1952	.1401	.0620
.050	.1985	.2295	.2205	.1707	.1234
.150	.4504	.4900	.3971	.3551	.2855
.300	.3697	.3453	.4233	.3500	.3567
.520	.2407	.2545	.2975	.3182	.3196
.685	-.0808	.0000	-.0588	-.0292	-.0366
.775	-.1065	-.0672	.0000	-.0272	-.0518
.900		-.0894	-.0477	-.0387	-.0603

ALPHAO(2) = -4.288 BETAO (1) = -4.351

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7588	.7706	.7803	.7857	.7592
.025	.4620	.5469	.5345	.5238	.4829
.050	.5129	.6134	.5416	.5342	.5221
.150	.4878	.5184	.4715	.4872	.4812
.300	.4251	.3873	.4631	.4456	.4383
.520	.3064	.3201	.3752	.4114	.3789
.685	-.0628	.0000	-.0237	.0153	.0039
.775	-.0834	-.0341	.0000	.0160	-.0143
.900		-.0586	-.0072	-.0079	-.0113

ARC97-019 IA81 LVAP(ALLML SEALED) LEFT VERTICAL (RETV45)

ALPHAO(2) = -4.320 BETAO (2) = -.149

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8873	.8081	.8211	.7895	.7438
.025	.0815	.1371	.1656	.1137	.0309
.050	.1525	.1493	.1906	.1363	.0957
.150	.3823	.4428	.3577	.2890	.2150
.300	.3580	.3112	.3759	.3142	.3215
.520	.2047	.2195	.2647	.2840	.2934
.685	-.0962	.0000	-.0662	-.0438	-.0489
.775	-.1185	-.0814	.0000	-.0435	-.0641
.900		-.1013	-.0635	-.0546	-.0715

ALPHAO(2) = -4.300 BETAO (3) = 3.413

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7438	.7713	.7621	.7306	.6921
.025	-.0532	-.0816	-.1145	-.0795	-.0851
.050	-.0005	-.0512	-.0835	-.0552	-.0692
.150	.1103	.0435	-.0108	.0064	.0102
.300	.1755	.1731	.0441	.0270	.0359
.520	.1215	.1273	.1711	.0511	.0423
.685	-.1299	.0000	-.1088	-.1479	-.1405
.775	-.1532	-.1334	.0000	-.1466	-.1496
.900		-.1411	-.1175	-.1226	-.1469

ALPHAO(3) = -2.199 BETAO (1) = -.165

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6336	.7528	.7433	.7241	.6829
.025	.0424	.0891	.1409	.0879	.0126
.050	.1347	.1006	.1483	.1095	.0707
.150	.3312	.4061	.3158	.2420	.1783
.300	.3190	.2754	.3421	.2784	.2832
.520	.1712	.1857	.2295	.2463	.2551
.685	-.1118	.0000	-.0789	-.0599	-.0635
.775	-.1331	-.0955	.0000	-.0612	-.0788
.900		-.1143	-.0788	-.0713	-.0852

ARC97-019 1A81 LVAP(ALL HL SEALED) LEFT VERTICAL (RETV45)

ALPHAO(4) = -.118 BETAO (1) = -6.442

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6273	.6575	.5949	.6358	.6383
.025	.5028	.6367	.5704	.5697	.5637
.050	.4804	.6383	.5415	.5556	.5617
.150	.4368	.5039	.4556	.4888	.4862
.300	.3720	.3700	.4455	.4428	.4331
.520	.2727	.3138	.3784	.4032	.3571
.685	-.0824	.0000	-.0271	.0076	-.0092
.775	-.1047	-.0423	.0000	.0076	-.0214
.900		-.0675	-.0008	-.0133	-.0183

ALPHAO(4) = -.115 BETAO (2) = -4.378

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6544	.6752	.6428	.6622	.6365
.025	.3744	.4150	.4479	.4650	.4392
.050	.4100	.4814	.4559	.4683	.4623
.150	.3653	.4700	.4043	.4180	.4157
.300	.3447	.3344	.4033	.3751	.3710
.520	.2438	.2708	.3186	.3427	.3123
.685	-.0947	.0000	-.0501	-.0121	-.0235
.775	-.1159	-.0696	.0000	-.0151	-.0387
.900		-.0922	-.0316	-.0360	-.0377

ALPHAO(4) = -.112 BETAO (3) = -2.264

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6777	.6846	.6894	.6649	.6321
.025	.2283	.2468	.3030	.2755	.2245
.050	.3172	.3152	.3563	.3164	.2768
.150	.3357	.3868	.3375	.3295	.3327
.300	.2940	.2738	.3871	.3057	.3094
.520	.1818	.2187	.2580	.2781	.2700
.685	-.1129	.0000	-.0685	-.0440	-.0470
.775	-.1318	-.0803	.0000	-.0403	-.0665
.900		-.1001	-.0628	-.0581	-.0628

ARC97-019 1A6; LVAP(ALLHL SEALED) LEFT VERTICAL (RETV45)

ALPHAO(4) = -.108 BETAO (4) = -.175

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5921	.6941	.6917	.6803	.6219
.025	.0181	.1130	.1241	.0724	.0074
.050	.1076	.1285	.1489	.0926	.0586
.150	.3045	.3885	.2872	.2251	.1670
.300	.2809	.2422	.3097	.2466	.2512
.520	.1403	.1520	.1966	.2138	.2165
.685	-.1225	.0000	-.0940	-.0727	-.0757
.775	-.1424	-.1065	.0000	-.0761	-.0895
.900		-.1222	-.0920	-.0842	-.0949

ALPHAO(4) = -.100 BETAO (5) = 1.938

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6314	.6839	.6781	.6378	.6086
.025	-.0962	-.0750	-.0694	-.0506	-.0696
.050	-.0390	-.0221	-.0170	-.0227	-.0399
.150	.1693	.1045	.0357	.0343	.0288
.300	.2203	.2240	.2187	.0635	.0527
.520	.0900	.1062	.1549	.1221	.0689
.685	-.1396	.0000	-.1127	-.0867	-.0861
.775	-.1605	-.1372	.0000	-.0905	-.0958
.900		-.1483	-.1201	-.1022	-.0942

ALPHAO(4) = -.095 BETAO (6) = 3.383

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6417	.6488	.6447	.5981	.5676
.025	-.0862	-.1196	-.1344	-.1126	-.1150
.050	-.0472	-.0842	-.1099	-.0964	-.1082
.150	.0408	-.0370	-.0464	-.0427	-.0408
.300	.0603	.0910	-.0128	-.0232	-.0166
.520	.0546	.0652	.0779	-.0038	-.0061
.685	-.1573	.0000	-.1280	-.1692	-.1632
.775	-.1718	-.1633	.0000	-.1739	-.1729
.900		-.1697	-.1421	-.1699	-.1709

ARC87-010 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV45)

ALPHAO(4) = -.000 BETAO (7) = 8.028

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.8338	.8318	.6787	.8443	.8193
.025	-.0732	-.1113	-.1748	-.1507	-.1477
.050	-.0738	-.1080	-.1782	-.1527	-.1615
.150	-.0450	-.0799	-.1219	-.1037	-.1012
.300	-.0830	-.0124	-.0802	-.0819	-.0709
.520	.0379	-.0238	-.0588	-.0560	-.0493
.685	-.1682	.0000	-.1776	-.1989	-.1878
.775	-.1830	-.1685	.0000	-.1989	-.1982
.900		-.1803	-.1852	-.1908	-.1965

ALPHAO(5) = 1.933 BETAO (1) = -.155

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.5844	.8332	.8470	.5988	.5842
.025	.0177	.1347	.1128	.0701	.0090
.050	.1132	.1405	.1332	.0836	.0508
.150	.3053	.3574	.2615	.2188	.1717
.300	.2548	.2121	.2080	.2168	.2196
.520	.1166	.1312	.1749	.1639	.1842
.685	-.1347	.0000	-.1037	-.0820	-.0860
.775	-.1512	-.1131	.0000	-.0837	-.0995
.900		-.1289	-.1024	-.0928	-.1025

ALPHAO(6) = 3.488 BETAO (1) = -4.411

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.5673	.5883	.5810	.5372	.5212
.025	.2408	.3244	.4187	.4211	.4060
.050	.2843	.3594	.4127	.4151	.4137
.150	.2399	.3843	.3805	.3832	.3814
.300	.2204	.2779	.3568	.3232	.3170
.520	.1527	.2007	.2688	.2654	.2668
.685	-.1342	.0000	-.0382	-.0297	-.0385
.775	-.1477	-.0987	.0000	-.0354	-.0509
.900		-.1145	-.0821	-.0526	-.0498

A3C97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV45)

ALPHAO(6) = 3.403 BETAO (2) = -.183

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/SV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6208	.6081	.5838	.5318	.5088
.025	.0313	.1506	.1387	.1000	.0293
.050	.1215	.1714	.1518	.1000	.0610
.150	.3348	.3275	.2458	.2039	.1790
.300	.2300	.2008	.2714	.1975	.1975
.520	.0970	.1135	.1578	.1835	.1622
.685	-.1415	.0000	-.1119	-.0807	-.0898
.775	-.1804	-.1244	.0000	-.0827	-.1082
.900		-.1381	-.1113	-.1035	-.1082

ALPHAO(8) = 3.408 BETAO (3) = 3.382

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5710	.5787	.5491	.4730	.4482
.025	-.0927	-.1233	-.1509	-.1405	-.1437
.050	-.0818	-.1089	-.1355	-.1338	-.1478
.150	-.0405	-.0797	-.0841	-.0824	-.0838
.300	.0038	-.0175	-.0454	-.0589	-.0552
.520	-.0152	.0013	-.0498	-.0350	-.0390
.685	-.1527	.0000	-.1435	-.1831	-.1754
.775	-.1702	-.1785	.0000	-.1899	-.1852
.900		-.1825	-.1590	-.1885	-.1855

ALPHAO(7) = 6.072 BETAO (1) = -.153

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5870	.5757	.5426	.4894	.4485
.025	.0573	.1630	.1307	.0995	.0428
.050	.1522	.1606	.1505	.1052	.0772
.150	.3382	.2805	.2211	.1979	.1630
.300	.1971	.1693	.2432	.1787	.1789
.520	.0601	.0904	.1368	.1425	.1428
.685	-.1472	.0000	-.1174	-.0973	-.0953
.775	-.1593	-.1389	.0000	-.0986	-.1124
.900		-.1486	-.1184	-.1101	-.1111

ARC97-019 1A81 L/AP(ALLHL SEALED) LEFT VERTICAL (RETV46) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. Y
CREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = 10.000 ELV-OB = -4.000
RUDDER = .000 SPOBRK = .000

ALPHAO(1) = -8.268 BETAO (1) = .417

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8092	.8344	.7709	.7450	.6350
.025	.2687	.1993	.0644	.0581	.0117
.050	.4266	.3110	.0858	.0489	.0956
.150	.4810	.3292	.2804	.2846	.2813
.300	.3342	.2603	.3272	.2643	.2617
.520	.1813	.1862	.2177	.2220	.1820
.685	-.2414	.0000	-.2795	-.2343	-.2508
.775	-.1827	-.2743	.0000	-.2323	-.2666
.900		-.2655	-.2421	-.2468	-.2511

ALPHAO(2) = -4.270 BETAO (1) = -3.851

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7541	.6672	.6844	.6841	.6529
.025	.5809	.5457	.4907	.4982	.4782
.050	.5801	.5370	.4851	.4917	.4925
.150	.5039	.4388	.4148	.4336	.4149
.300	.3843	.3478	.3989	.3885	.3610
.520	.2391	.2590	.2859	.2838	.1912
.685	-.2345	.0000	-.2479	-.2211	-.2479
.775	-.1921	-.2391	.0000	-.2054	-.2606
.900		-.2404	-.2027	-.2306	- 2485

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV48)

ALPHAO(2) = -4.251 BETAO (2) = .391

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7492	.7973	.7298	.6907	.5748
.025	.1777	.1767	.0375	.0391	-.0016
.050	.3783	.2650	.0698	.0135	.0208
.150	.4445	.3038	.2508	.2501	.2413
.300	.2937	.2311	.2973	.2278	.2338
.520	.1532	.1558	.1900	.1917	.1548
.685	-.2554	.0000	-.2889	-.2494	-.2647
.775	-.1923	-.[illegible]	.0000	-.2432	-.2797
.900		-.[illegible]	-.2555	-.2598	-.2667

ALPHAO(2) = -4.218 BETAO (3) = 3.923

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7212	.6423	.6390	.5907	.4513
.025	-.0080	-.0481	-.2698	-.3364	-.4026
.050	.0307	-.0508	-.2708	-.3290	-.3804
.150	.0868	-.0152	-.0273	-.2593	-.2409
.300	.2042	.0355	.0589	-.0714	-.1180
.520	.0688	.0713	.0173	.0942	.1275
.685	-.2507	.0000	-.2780	-.2784	-.2611
.775	-.1718	-.2806	.0000	-.2709	-.2768
.900		-.2319	-.2728	-.2758	-.2761

ALPHAO(3) = -2.110 BETAO (1) = .382

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7068	.7517	.6901	.6393	.5225
.025	.0953	.1532	.0161	.0228	-.0418
.050	.3163	.2470	.0393	.0032	-.0068
.150	.4161	.2606	.2250	.2247	.2192
.300	.2640	.2060	.2754	.2018	.2112
.520	.1301	.1263	.1813	.1700	.1450
.685	-.2658	.0000	-.2960	-.2589	-.2725
.775	-.1899	-.2550	.0000	-.2509	-.2877
.900		-.2760	-.2654	-.2688	-.2754

ARC87-018 IAB1 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV48)

ALPHAO(4) = -.014 BETAO (1) = -5.878

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.8801	.8873	.5084	.5875	.5812
.025	.5443	.5417	.5144	.5080	.5027
.050	.5423	.5203	.4955	.4833	.4960
.150	.4619	.4176	.4188	.4230	.4048
.300	.3598	.3291	.3971	.3776	.3459
.520	.2225	.2505	.2799	.2663	.1649
.685	-.2545	.0J00	-.2474	-.2244	-.2502
.775	-.2201	-.2317	.0000	-.2090	-.2560
.900		-.2348	-.2006	-.2347	-.2444

ALPHAO(4) = -.012 BETAO (21 = -3.884

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.6798	.5897	.5098	.5035	.5734
.025	.4915	.4842	.4359	.4410	.4258
.050	.5160	.4724	.4253	.4349	.4403
.150	.4382	.3737	.3561	.3740	.3664
.300	.3129	.2802	.3395	.3357	.3155
.520	.1778	.2087	.2403	.2487	.1607
.685	-.2676	.0000	-.2638	-.2355	-.2609
.775	-.1951	-.2578	.0000	-.2239	-.2708
.900		-.2390	-.2270	-.2477	-.2622

ALPHAO(4) = -.017 BETAO (3) = -1.729

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.6829	.6877	.6527	.6120	.5470
.025	.1854	.3224	.2487	.2843	.2223
.050	.3797	.4014	.3069	.3088	.2845
.150	.3844	.3263	.2805	.2884	.2774
.300	.2883	.2353	.3117	.2592	.2545
.520	.1517	.1539	.2019	.2152	.1502
.685	-.2805	.0000	-.2878	-.2517	-.2732
.775	-.1901	-.2844	.0000	-.2427	-.2918
.900		-.2824	-.2499	-.2887	-.2828

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV48)

ALPHAO(4) = -.008 BETAO (4) = .358

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.6706	.7126	.6398	.5803	.4870
.025	.0447	.1275	-.0070	.0030	-.0607
.050	.2914	.1888	-.0070	-.0169	-.0273
.150	.3843	.2473	.1959	.1965	.1863
.300	.2345	.1757	.2556	.1738	.1863
.520	.0990	.1000	.1413	.1438	.1288
.685	-.2784	.0000	-.3058	-.2738	-.2848
.775	-.1897	-.3064	.0000	-.2645	-.3005
.900		-.2741	-.2792	-.2838	-.2896

ALPHAO(4) = .002 BETAO (5) = 2.458

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	6000	.8400	.9250
X/CV					
.000	.6552	.6800	.6197	.5533	.4299
.025	-.0787	.0281	-.2078	-.2487	-.3693
.050	.0977	-.0003	-.2137	-.2554	-.3099
.150	.2810	.1390	.0729	-.0878	-.1523
.300	.1988	.1171	.1425	.1057	.1149
.520	.0482	.0550	.0869	.0849	.1037
.685	-.2162	.0000	-.3130	-.2888	-.2850
.775	-.1594	-.3238	.0000	-.2821	-.2968
.900		-.2302	-.3078	-.2923	-.2933

ALPHAO(4) = .017 BETAO (6) = 3.895

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.6233	.5733	.5000	.5210	.3995
.025	-.0783	-.1104	-.1894	-.3224	-.4074
.050	-.0333	-.1177	-.2052	-.3208	-.3720
.150	.0008	-.0833	-.0405	-.2294	-.2488
.300	.1882	.0987	.0323	.0284	-.0470
.520	.0849	.0798	.0194	.0501	.0938
.685	-.2832	.0000	-.3040	-.2833	-.2850
.775	-.1823	-.3094	.0000	-.2908	-.2943
.900		-.2945	-.2829	-.2888	-.2938

ARC97-019 IAS1 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV48)

ALPHAO(4) = .028 BETAO (7) = 6.618

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1630	.3160	.6000	.8400	.9250
X/CV					
.000	.6304	.5477	.5352	.4527	.3424
.025	-.0732	-.1917	-.2830	-.3911	-.4453
.050	-.0430	-.2028	-.2700	-.3893	-.4472
.150	-.0375	-.1632	-.2603	-.3391	-.3426
.300	.0345	-.0779	-.1201	-.2196	-.2584
.520	.0178	.0039	-.1672	-.0959	-.0890
.665	-.2080	.0000	-.3446	-.3760	-.3588
.775	-.2110	-.3274	.0000	-.3890	-.3817
.900		-.2848	-.3378	-.3858	-.3839

ALPHAO(5) = 2.074 BETAO (1) = .382

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1533	.3160	.6000	.8400	.9250
X/CV					
.000	.6374	.6579	.5871	.5451	.4515
.025	-.0327	.0939	-.0181	-.0123	-.0582
.050	.2263	.1334	-.0319	-.0275	-.0484
.150	.3400	.2188	.1731	.1721	.1678
.300	.1983	.1481	.2342	.1881	.1837
.520	.0798	.0828	.1238	.1217	.1128
.665	-.2787	.0000	-.3107	-.2800	-.2811
.775	-.1868	-.3132	.0000	-.2711	-.3070
.900		-.2529	-.2883	-.2818	-.2872

ALPHAO(8) = 3.883 BETAO (1) = -3.880

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1630	.3160	.6000	.8400	.9250
X/CV					
.000	.5829	.6071	.5417	.5338	.4888
.025	.3381	.3880	.3474	.3487	.3136
.050	.3898	.3792	.3487	.3493	.3481
.150	.3549	.2937	.2890	.3038	.2931
.300	.2573	.2188	.1754	.2843	.2539
.520	.1247	.1414	.1857	.2024	.1253
.665	-.2712	.0000	-.2859	-.2546	-.2778
.775	-.1835	-.2830	.0000	-.2447	-.2673
.900		-.2494	-.2545	-.2882	-.2813

ARC97-019 IAB1 LWP(ALLHL SEALED) LEFT VERTICAL (RETV48)

ALPHAO(6) = 3.565 BETAO (2) = .374

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.6233	.6031	.5507	.5028	.4141
.025	-.0943	.0533	-.0318	-.0238	-.0843
.050	.1862	.0597	-.0445	-.0380	-.0703
.150	.2036	.1220	.1475	.1448	.1370
.300	.1729	.1307	.2015	.1960	.1354
.520	.0533	.0572	.1018	.0956	.0809
.685	-.2812	.0000	-.3232	-.2878	-.3003
.775	-.1809	-.3251	.0000	-.2819	-.3169
.900		-.2373	-.3022	-.3035	-.3098

ALPHAO(8) = 3.578 BETAO (3) = 3.899

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3180	.6000	.8400	.9250
X/CV					
.000	.5372	.5202	.5164	.4447	.3444
.025	-.0009	-.1254	-.2168	-.3289	-.4134
.050	.0191	-.1406	-.2380	-.3331	-.3737
.150	.1159	-.0448	-.0596	-.2320	-.2615
.300	.0867	.0703	.0205	.0034	-.0186
.520	-.0286	-.0058	-.0007	.0161	.0653
.685	-.2012	.0000	-.3242	-.3123	-.3006
.775	-.1936	-.2763	.0000	-.3092	-.3120
.900		-.2253	-.3242	-.3161	-.3127

ALPHAO(7) = 8.314 BETAO (1) = .393

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.5000	.8400	.9250
X/CV					
.000	.6085	.5879	.5145	.4588	.3839
.025	-.0615	.0426	-.0268	-.0360	-.0922
.050	.2091	.0375	-.0454	-.0435	-.0773
.150	.2584	.1745	.1288	.1187	.1148
.300	.1543	.1118	.1758	.1023	.1138
.520	.0337	.0381	.0804	.0800	.0604
.685	-.2823	.0000	-.3310	-.2952	-.3085
.775	-.1785	-.3323	.0000	-.2898	-.3247
.900		-.2286	-.3108	-.3117	-.3184

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV47) (12 OCT 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-IB = 10.000 ELV-OB = -4.000
RUDDER = .000 SPOBRK = .000

ALPHAO(1) = -6.283 BETAO (1) = .072

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7923	.8310	.8414	.8220	.7472
.025	.0340	.3802	.2008	.1878	.0874
.050	.1818	.3787	.2082	.1872	.1344
.150	.5183	.4355	.3720	.3729	.3894
.300	.3726	.3264	.4185	.3911	.3551
.520	.2388	.2515	.3038	.3119	.3116
.685	-.1114	.0000	-.0953	-.0658	-.0737
.775	-.1443	-.1102	.0000	-.0571	-.0878
.900		-.1290	-.0847	-.0737	-.0894

ALPHAO(2) = -4.315 BETAO (1) = -4.217

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7420	.7527	.7434	.7554	.7079
.025	.4698	.5971	.5284	.5322	.4883
.050	.5105	.5983	.5287	.5341	.5172
.150	.5165	.4842	.4632	.4738	.4600
.300	.3995	.3755	.4488	.4289	.4120
.520	.2891	.3044	.3872	.3898	.3628
.685	-.1034	.0000	-.0705	-.0399	-.0444
.775	-.1213	-.0830	.0000	-.0319	-.0521
.900		-.1072	-.0489	-.0578	-.0568

ARC97-019 IA81 LVAP(ALL HL SEALED) LEFT VERTICAL (RETV47)

ALPHAO(2) = -4.282 BETAO (2) = .044

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7403	.7820	.7773	.7848	.8923
.025	.0151	.3040	.1798	.1725	.0624
.050	.1481	.3018	.1780	.1642	.1102
.150	.4324	.4124	.3308	.3392	.3330
.300	.3337	.2917	.3734	.3084	.3141
.520	.2020	.2222	.2712	.2801	.2807
.695	-.1293	.0000	-.1069	-.0827	-.0879
.775	-.1563	-.1238	.0000	-.0763	-.1007
.900		-.1438	-.1024	-.0910	-.1019

ALPHAO(2) = -4.245 BETAO (3) = 3.589

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.7290	.7418	.7088	.6884	.8218
.025	-.0416	-.0947	-.1642	-.1584	-.1667
.050	.0366	-.0896	-.1334	-.1344	-.1533
.150	.0907	.0851	-.0792	-.0538	-.0540
.300	.1792	.1380	.1672	-.0099	.0001
.520	.1196	.1172	.1412	.0355	.0423
.695	-.1678	.0000	-.1494	-.1347	-.1747
.775	-.1777	-.1645	.0000	-.1351	-.1744
.900		-.1739	-.1591	-.1319	-.1522

ALPHAO(3) = -2.148 BETAO (1) = .035

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8840	.7045	.7139	.8958	.8412
.025	-.0052	.2048	.1857	.1477	.0463
.050	.1171	.2185	.1628	.1432	.0891
.150	.3838	.3915	.2983	.3047	.2979
.300	.2949	.2580	.3221	.2754	.2810
.520	.1068	.1950	.2442	.2459	.2446
.695	-.1481	.0000	-.1210	-.0973	-.1024
.775	-.1686	-.1358	.0000	-.0908	-.1178
.900		-.1557	-.1145	-.1080	-.1159

ARC97-019 IABI LVAP(ALLHL SEALED) LEFT VERTICAL (RETVN7)

ALPHAO(4) = -.077 BETAO (1) = -6.234

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6081	.5926	.5885	.5871	.6022
.025	.5024	.6163	.5651	.5628	.5690
.050	.4819	.5785	.5379	.5469	.5803
.150	.4661	.4528	.4519	.4781	.4807
.300	.3497	.3604	.4359	.4304	.4288
.520	.2473	.2853	.3789	.3831	.3137
.685	-.1265	.0000	-.0702	-.0315	-.0608
.775	-.1400	-.0869	.0000	-.0290	-.0657
.900		-.1113	-.0490	-.0579	-.0624

ALPHAO(4) = -.078 BETAO (2) = -4.257

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6403	.6843	.6340	.6368	.6017
.025	.3943	.5200	.4705	.4743	.4462
.050	.4195	.5322	.4808	.4730	.4848
.150	.4004	.4244	.3930	.4177	.4059
.300	.3252	.3112	.3821	.3887	.3816
.520	.2203	.2477	.3071	.3349	.2927
.685	-.1381	.0000	-.0920	-.0570	-.0777
.775	-.1542	-.1093	.0000	-.0525	-.0902
.900		-.1321	-.0695	-.0815	-.0809

ALPHAO(4) = -.074 BETAO (3) = -2.080

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6523	.6421	.6833	.6288	.6197
.025	.1992	.3184	.3309	.3066	.2854
.050	.3263	.4050	.3693	.3396	.3456
.150	.3578	.3680	.3328	.3271	.3864
.300	.2858	.2888	.3294	.3175	.3388
.520	.1825	.2128	.2618	.3083	.2751
.685	-.1454	.0000	-.1086	-.0677	-.0828
.775	-.1604	-.1191	.0000	-.0648	-.1043
.900		-.1408	-.0977	-.0886	-.1001

ARC87-019 IAB1 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV47)

ALPHAO(%) = -.070 BETAO (%) = .011

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8452	.8545	.6774	.6381	.5906
.025	-.0114	.1903	.1513	.1333	.0363
.050	.1082	.0938	.1452	.1304	.0821
.150	.3317	.3784	.2733	.2724	.2676
.300	.2734	.2354	.2903	.2498	.2530
.520	.1438	.1709	.2142	.2204	.2136
.685	-.1584	.0000	-.1288	-.1059	-.1098
.775	-.1738	-.1458	.0000	-.0991	-.1269
.900		-.1641	-.1233	-.1143	-.1265

ALPHAO(%) = -.080 BETAO (5) = 2.115

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8587	.8618	.8595	.8127	.5802
.025	-.1223	-.0775	-.0355	-.0873	-.1422
.050	-.0463	-.0880	-.0493	-.0848	-.1025
.150	.2118	.2272	.1140	.0150	.0041
.300	.2208	.2031	.2111	.1729	.0840
.520	.1000	.1034	.1548	.1745	.1851
.685	-.1881	.0000	-.1445	-.1208	-.1183
.775	-.1732	-.1000	.0000	-.1315	-.1341
.900		-.1024	-.1488	-.1402	-.1387

ALPHAO(%) = -.080 BETAO (8) = 3.881

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8388	.8851	.8160	.5497	.5127
.025	-.0894	-.1441	-.2108	-.1875	-.1923
.050	-.0398	-.1358	-.1778	-.1728	-.1891
.150	.0198	-.0230	-.1178	-.1035	-.1030
.300	.0878	.0835	-.0127	-.0624	-.0530
.520	.0462	.0840	.1028	-.0237	-.0195
.685	-.1878	.0000	-.1667	-.2049	-.2026
.775	-.1828	-.1895	.0000	-.1888	-.2062
.900		-.1997	-.1811	-.1591	-.1997

ARC97-019 IA81 LVAP(ALLHL SEALED) LEFT VERTICAL (RETV47)

ALPHAO(4) = -.080 BETAO (7) = 6.180

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6032	.5865	.5650	.4862	.4638
.025	-.0820	-.1352	-.2020	-.2281	-.2223
.050	-.0886	-.1337	-.1994	-.2328	-.2304
.150	-.0814	-.1284	-.1782	-.1731	-.1681
.300	-.1138	-.0882	-.0839	-.1395	-.1241
.520	.0330	-.0853	-.1723	-.0941	-.0873
.685	-.2089	.0000	-.2209	-.2458	-.2381
.775	-.1983	-.2087	.0000	-.2516	-.2493
.900		-.2196	-.2222	-.2474	-.2448

ALPHAO(5) = 1.892 BETAO (1) = .010

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.6328	.6270	.6406	.5759	.5400
.025	-.0034	.2527	.1381	.1339	.0550
.050	.1190	.2524	.1529	.1333	.0943
.150	.3610	.3347	.2495	.2540	.2457
.300	.2556	.2068	.2756	.2254	.2312
.520	.1239	.1474	.2004	.2009	.1986
.685	-.1690	.0000	-.1336	-.1109	-.1151
.775	-.1809	-.1503	.0000	-.1045	-.1309
.900		-.1687	-.1324	-.1203	-.1277

ALPHAO(6) = 3.972 BETAO (1) = -4.227

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5504	.5514	.5487	.5413	.4999
.025	.2203	.3458	.4193	.4288	.4082
.050	.2894	.4078	.4078	.4212	.4191
.150	.2400	.3430	.3404	.3620	.3585
.300	.2074	.2405	.3286	.3141	.3100
.520	.1258	.1808	.2495	.2774	.2428
.685	-.1803	.0000	-.1118	-.0714	-.0848
.775	-.1922	-.1385	.0000	-.0707	-.0937
.900		-.1568	-.0970	-.0895	-.0875

ARC87-018 !ABI LVAP(ALLHL SEALED) LEFT VERTICAL (RETV47)

ALPHAO(6) = 3.475 BETAO (2) = .017

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8218	.8033	.5881	.5475	.4989
.025	.0008	.2388	.1270	.1225	.0484
.050	.1197	.2337	.1415	.1241	.0982
.150	.3703	.2990	.2312	.2427	.2343
.300	.2311	.1903	.2668	.2058	.2181
.520	.1039	.1286	.1829	.1798	.1790
.695	-.1803	.0000	-.1416	-.1180	-.1216
.775	-.1877	-.1587	.0000	-.1158	-.1397
.900		-.1747	-.1400	-.1323	-.1371

ALPHAO(8) = 3.480 BETAO (3) = 3.492

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.5590	.5541	.5326	.4517	.4168
.025	-.0797	-.1255	-.2208	-.2131	-.2157
.050	-.0649	-.1313	-.1918	-.2053	-.2221
.150	-.0137	-.0442	-.1462	-.1410	-.1460
.300	.0173	-.0201	-.0703	-.1098	-.0970
.520	-.0338	-.0011	.0638	-.0693	-.0580
.695	-.1718	.0000	-.1877	-.2089	-.2170
.775	-.1858	-.2140	.0000	-.1841	-.2134
.900		-.2041	-.2041	-.1709	-.2005

ALPHAO(7) = 8.220 BETAO (1) = .042

SECTION (1)LEFT VERTICAL DEPENDENT VARIABLE CP

Z/BV	.1530	.3160	.6000	.8400	.9250
X/CV					
.000	.8273	.5827	.5484	.5048	.4607
.025	-.0208	.0830	.0870	.1037	.0391
.050	.0884	.0868	.1050	.1044	.0782
.150	.3042	.2438	.2094	.2213	.2130
.300	.1826	.1631	.2434	.1853	.2001
.520	.0888	.0947	.1519	.1589	.1633
.695	-.1832	.0000	-.1487	-.1253	-.1256
.775	-.1884	-.1719	.0000	-.1224	-.1440
.900		-.1818	-.1449	-.1392	-.1405

ARC87-010 IAB(LVAP(ALLML SEALED) SRM BOOSTER (RETS30) (04 SEP 75)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 878.0000 IN. XT
LREF = 1287.0000 INCHES YMRP = .0000 IN. YT
BREF = 1287.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.500 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPOBRK = 65.000

BETAL (1) = .345 ALPHAL(1) = -7.004

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9287	.1386	.0604	-.1393	-.0811	-.0814	-.0981	-.0978	-.0987	-.0549	-.0540	.2132	.1223	.1521	-.1415
45.000		.1652	.1416	-.0930	-.0926	-.0373	-.0450	-.0702	-.0964	-.1418	-.0715				
90.000		.1978	.2028	-.0709	-.0660	-.0959	-.0750	-.0762	-.1299	-.1725	-.0826		.0185	.0075	
135.000		.2918	.2790	-.0311	-.0391	-.0282	-.0207	.0148	-.0430	-.0898	-.0528				
180.000	1.9287	.4292	.3470	-.0154	.0112	.0552	-.0085	.1479	.0586	-.0058	.0681	.3760	.2460	.3077	-.1433
225.000		.4321	.5290	.0567	.1838	-.0083	-.0343	.1640	.0773	.0038	.2896				
270.000		.2826	.6501	.3651	.2386	-.1565	-.1071	-.0091	-.0365	-.0409	.1243	.7317	.3441	.3783	-.1791
315.000		.1625	.1145	.0135	-.0911	-.2008	-.1801	-.1272	-.0552	-.0144	.4714				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0981	-.1052	.2083	-.0441	.1245	.1041
45.000	-.0351	-.1049			-.0287	-.0192
90.000	-.1028	-.0884	.0697	-.0737	-.0242	.0010
135.000	.0554	-.1439			-.0216	.0091
180.000	.1378	-.1167	.0081	-.1286	-.0491	.1187
225.000	-.0075	-.1607			.0164	.0000
270.000	-.0813	-.0893	.0445	-.0619	.0060	-.0039
315.000	-.0278	-.0919			.0256	.0448

BETAL (1) = .321 ALPHAL(2) = -4.823

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9458	.1718	.0897	-.1209	-.1004	-.0854	-.0948	-.0803	-.0570	-.0215	.0743	.1510	.0711	.1094	-.1175
45.000		.1890	.1623	-.0957	-.0837	-.0360	-.0310	-.0546	-.0681	-.0839	-.0239				
90.000		.2136	.2154	-.0690	-.0649	-.0778	-.0404	-.0490	-.0865	-.1274	-.0570		.0227	.0079	
135.000		.2730	.2590	-.0425	-.0490	-.0319	-.0189	.0210	-.0171	-.0384	-.0638				
180.000	1.9458	.3720	.2887	-.0363	-.0199	.0272	-.0331	.1317	.0547	-.0044	.0710	.3726	.2235	.3382	-.1460
225.000		.3875	.4563	.1048	.1468	-.0613	-.0756	.1268	.0669	-.0097	.2924				
270.000		.2893	.7093	.3821	.1819	-.1513	-.1213	-.0192	-.0658	-.0218	.1612	.7541	.4410	.5184	-.1843
315.000		.2038	.1294	.0378	-.0452	-.1874	-.1399	-.1210	-.0452	-.0053	.4719				

ARC97-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS30)

BETAL (1) = .321 ALPHAL(2) = -4.823

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0732	-.0872	.0148	-.0844	.1052	.1079
45.000	-.0076	-.0825			.0217	.0241
90.000	-.0697	-.1805	.0468	-.0833	.0368	.0801
135.000	.0960	-.1300			.0152	.0399
180.000	.1547	-.1182	-.0034	-.1181	-.0500	.0476
225.000	-.0106	-.1680			-.0042	.0000
270.000	-.0881	-.0975	.0294	-.0630	-.0072	-.0181
315.000	-.0239	-.1070			.0076	.0322

BETAL (1) = .336 ALPHAL(3) = -.374

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0001	.0335	.0950	.1118	.1397	.1956	.2794	.3636	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9667	.2555	.1798	-.0953	-.0644	-.0176	-.0755	-.0726	-.0038	.0055	.0874	.2894	.0783	.1305	-.0968
45.000		.2246	.2104	-.0812	-.0691	-.0369	-.0254	-.0205	-.0090	.0184	.0669				
90.000		.2249	.2198	-.0685	-.0623	-.0489	-.0052	-.0134	-.0122	-.0118	.0727		.0659	.0328	
135.000		.2352	.2066	-.0658	-.0693	-.0384	-.0234	-.0316	.0319	-.0007	.0152				
180.000	1.9667	.2732	.1796	-.0822	-.0617	-.0199	-.0767	.1140	.0410	.0126	.1000	.3862	.2968	.3366	-.1124
225.000		.3[illegible]	.1824	.0935	.0783	-.1304	-.1142	.1337	.0478	-.0162	.2744				
270.000		.3009	.7302	.3913	.0537	-.1445	-.0650	-.0046	-.0864	-.0444	.2718	.8045	.5020	.5580	-.1708
315.000		.2874	.1727	.0911	.0768	-.1271	-.1262	-.0152	-.0256	-.0244	.4537				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0503	-.0689	-.0244	-.0628	.0630	.0965
45.000	.0763	-.0534			.1175	.1531
90.000	-.0084	-.0364	.0325	-.0246	.2009	.2713
135.000	.2187	-.0816			.1807	.1808
180.000	.2483	-.0862	.0868	-.0944	-.0182	-.0168
225.000	.0282	-.1768			-.0299	.0000
270.000	-.0914	-.0990	.0290	-.0622	-.0100	-.0180
315.000	-.0361	-.1023			-.0481	-.0036

ARC87-019 1ABI LVAP(ALLHL SEALED) SRM BOOSTER (RET830)

BETAL (1) = .412 ALPHAL(4) = 4.014

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7260	.7290	.7360	.7370
PHI															
.000	1.9601	.3820	.2801	-.0945	-.0259	.0304	-.0323	-.0431	.0203	.0085	-.0044	.2810	.1599	.1775	-.1171
45.000		.2634	.2493	-.0833	-.0551	-.0379	-.0238	-.0326	-.0311	.0071	.0006				
90.000		.2110	.2087	-.0727	-.0698	-.0817	-.0455	-.0522	-.0031	.0150	.0988		.0425	.0458	
135.000		.1875	.1622	-.0849	-.0881	-.0472	-.0335	-.0598	.0150	.0044	.0818				
180.000	1.9501	.1768	.0966	-.1148	-.0980	-.0676	-.0919	.0586	.0302	-.0093	.2139	.4684	.1913	.1325	-.0739
225.000		.2189	.0905	.0350	-.0300	-.1931	-.1109	-.0095	.0252	-.0155	.3193				
270.000		.3049	.5933	.3635	-.0146	-.1356	-.1457	.0747	.0516	.0030	.2473	.7283	.4242	.4395	-.1907
315.000		.3828	.2901	-.0026	.1750	-.0645	-.1066	-.0452	.0492	.0123	.4713				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1148	-.0495	.0864	-.0148	.1238	.1897
45.000	.0764	-.0028			.2222	.2822
90.000	.0417	.0039	.0759	.0299	.1754	.2228
135.000	.2403	-.0372			.2647	.2933
180.000	.2400	-.0556	.1731	-.0262	.0501	.0278
225.000	.0594	-.1732			-.0728	.0000
270.000	-.1003	-.0982	.0411	-.0576	.0030	-.0052
315.000	-.0544	-.1035			.0171	.0973

BETAL (1) = .488 ALPHAL(5) = 8.441

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7260	.7290	.7360	.7370
PHI															
.000	1.8947	.4881	.3875	-.0057	.0385	.0893	.0037	.0082	.0298	.0290	.0054	.3555	.1810	.2832	-.1068
45.000		.3090	.2950	-.0349	-.0325	-.0209	-.0245	-.0347	-.0443	-.0482	-.0618				
90.000		.1813	.1886	-.0723	-.0801	-.1352	-.1191	-.1248	-.0841	-.0485	.0989		-.0228	-.0444	
135.000		.1471	.1124	-.0948	-.1085	-.0598	-.0830	-.0708	-.0857	-.0860	.1207				
180.000	1.8947	.1112	.0265	-.1338	-.0790	-.1007	-.0918	-.0128	.0060	-.0188	.1906	.3959	.0964	.0706	-.0930
225.000		.1384	.0639	-.0215	-.1230	-.2083	-.0845	-.0123	.0100	-.0252	.2538				
270.000		.3043	.4907	.3272	-.0819	-.1348	-.1380	-.0173	.0348	-.0462	.2602	.4708	.2108	.3473	-.1583
315.000		.4875	.4133	.0351	.2590	.0220	-.0132	.0168	.0750	.0520	.4099				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1947	-.0589	.1266	-.0109	.2233	.3225
45.000	.0779	.0307			.2067	.2340
90.000	.0832	.0556	.1228	.0675	.1528	.1423
135.000	.1082	-.0128			.1642	.1758
180.000	.2393	-.0383	.1853	-.0154	.1071	.0872

ARC97-019 IA81 LVAP(ALLHL SCALED) SRM BOOSTER (RET830)

BETAL (1) = .488 ALPHAL(5) = 8.441

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
225.000	.0327	-.1573			-.0518	.0000
270.000	-.0734	-.0795	-.0131	-.0182	.0320	.0441
315.000	.0338	-.1141			.1092	.2015

BETAL (1) = .493 ALPHAL(6) = 10.854

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7200	.7290	.7380	.7370
PHI															
.000	1.8633	.5528	.4570	.0305	.1175	.1193	.0328	.0378	.0480	.0438	.0237	.4232	.2200	.2498	-.0768
45.000		.3311	.3197	-.0229	-.0203	-.0012	-.0238	-.0410	-.0433	-.0514	-.0548				
90.000		.1593	.1684	-.0875	-.0902	-.1494	-.1633	-.1694	-.0872	-.0814	.0874		-.0204	-.0230	
135.000		.1290	.0919	-.1039	-.1210	-.0757	-.0811	-.0985	-.1589	-.0645	.0819				
180.000	1.8633	.0828	.0101	-.1462	-.0786	-.0978	-.0819	-.0325	-.0156	-.0345	.1751	.4697	.1337	.0849	-.1031
225.000		.1006	.0118	-.0528	-.1518	-.2080	-.0953	-.0369	-.0168	-.0430	.2132				
270.000		.2993	.3624	.2890	-.1076	-.1158	-.1258	-.0822	-.0203	-.0721	.2604	.5934	.1305	.5571	-.1520
315.000		.5370	.7138	.0702	.2675	.0585	.0396	.0518	.0837	.0778	.4264				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.2033	-.0683	.1543	-.0042	.2610	.3840
45.000	.1007	-.0085			.2610	.3317
90.000	.0793	.0414	.1528	.0391	.1709	.1552
135.000	.0620	.0170			.1418	.1478
180.000	.1844	-.0665	.1537	-.0254	.0606	.0452
225.000	.0353	-.1445			-.0467	.0000
270.000	-.0416	-.0775	-.0074	-.0141	.0636	.0790
315.000	.0134	-.1210			.1342	.2413

ARC97-018 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS31) (04 SEP 75)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.200 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPOBRK = 55.000

BETAL (1) = -.003 ALPHAL(1) = -7.148

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8084	.1343	.0639	-.1582	-.0887	-.0939	-.1267	-.1085	-.0830	-.0612	-.0325	.2559	.1018	.1437	-.1805
45.000		.1761	.1489	-.1336	-.1263	-.0586	-.0617	-.0938	-.1365	-.1569	-.0727				
90.000		.2157	.2199	-.1040	-.0911	-.1227	-.0977	-.0947	-.1701	-.2155	-.0848		-.0112	-.0090	
135.000		.3137	.3027	-.0580	-.0512	-.0097	-.0239	.0146	-.0527	-.0695	-.0341				
180.000	1.8084	.4353	.3470	-.0196	.0287	.0298	.0247	.1291	.0717	-.0273	.0544	.3383	.2631	.3121	-.1915
225.000		.4254	.4639	.1412	.1529	-.0362	.1613	.1657	.0648	-.0122	.2219				
270.000		.2611	.9592	.2839	.1826	-.2226	-.1024	-.0420	-.0908	-.0566	.1942	.7185	.3303	.3491	-.2423
315.000		.1439	.2815	-.0469	-.1609	-.2584	-.1852	-.1256	-.0431	-.0160	.4078				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0822	-.1211	.0745	-.0800	.1139	.0504
45.000	-.0405	-.1605			-.0559	-.0417
90.000	-.1571	-.1247	.0278	-.1140	-.0398	-.0113
135.000	.0341	-.1856			-.0589	-.0042
180.000	.1256	-.1729	-.0710	-.1173	-.0285	.1954
225.000	-.0247	-.1802			.1011	.0000
270.000	-.1220	-.1013	-.0354	-.0787	-.0381	-.0317
315.000	-.0490	-.1220			.0287	.0460

BETAL (1) = -.030 ALPHAL(2) = -4.898

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8212	.1648	.0980	-.1529	-.0742	-.0812	-.1284	-.0770	-.0502	-.0263	.1121	.1958	.0381	.1116	-.1477
45.000		.1978	.1759	-.1254	-.1145	-.0403	-.0401	-.0789	-.0885	-.0852	-.0299				
90.000		.2292	.2347	-.0974	-.0853	-.1039	-.0530	-.0595	-.1251	-.1583	-.0575		.0081	.0150	
135.000		.2827	.2773	-.0692	-.0668	-.0153	-.0358	.0306	-.0209	-.0532	-.0217				
180 000	1.8212	.3740	.2872	-.0611	.0052	.0005	-.0494	.1328	.0445	-.0263	.0558	.3623	.2206	.3222	-.1950
225.000		.3751	.3885	.1139	.1145	-.0908	.0544	.1485	.0407	-.0192	.2842				
270.000		.2648	.9869	.3154	.0908	-.2140	-.1484	-.0513	-.0857	-.0447	.2125	.7810	.4148	.4810	-.2429
315.000		.1830	.3377	-.0134	-.1101	-.2522	-.1308	-.1347	-.0321	-.0124	.4127				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS31)

BETAL (1) = -.030 ALPHAL(2) = -4.898

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0175	-.1189	-.0398	-.1050	.0682	.0884
45.000	-.0065	-.1200			.0071	.0058
90.000	-.0808	-.1143	.0044	-.1014	.0397	.0818
135.000	.0932	-.1618			-.0251	.0250
180.000	.1514	-.1684	-.0495	-.1247	-.0361	.1039
225.000	-.0187	-.1870			.0763	.0000
270.000	-.1334	-.1104	-.0314	-.0771	-.0399	-.0306
315.000	-.0504	-.1350			.0069	.0099

BETAL (1) = -.024 ALPHAL(3) = -.412

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8345	.2527	.1749	-.1236	-.0363	-.0385	-.0962	-.0223	-.0015	.0018	.1430	.3105	.0694	.1165	-.1125
45.000		.2384	.2219	-.1044	-.0894	-.0265	-.0340	-.0425	.0061	.0122	.0883				
90.000		.2409	.2360	-.1022	-.0798	-.0665	.0009	-.0277	-.0179	-.0100	.0902		.0529	.0738	
135.000		.2448	.2244	-.0916	-.0888	-.0510	-.0302	.0533	.0125	-.0116	.0831				
180.000	1.8345	.2648	.1785	-.1068	-.0412	-.0466	-.0986	.0888	.0355	-.0127	.1159	.4044	.2764	.3799	-.1472
225.000		.2802	.3281	.0672	.0239	-.1792	-.0580	.0964	.0226	-.0461	.3244				
270.000		.2742	.9850	.3305	-.0376	-.2086	-.0438	-.0577	-.1027	-.0721	.2519	.8645	.5711	.6386	-.2360
315.000		.2662	.3377	.0658	.0277	-.1854	-.0948	-.0144	-.0215	-.0450	.4074				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0320	-.0980	-.0301	-.0881	.0424	.0653
45.000	.0722	-.0852			.1274	.1862
90.000	-.0129	-.0688	.0098	-.0473	.1958	.2480
135.000	.2411	-.0800			.1550	.1600
180.000	.2430	-.1272	.0880	-.1209	-.0167	.0218
225.000	.0241	-.2163			.0481	.0000
270.000	-.1354	-.1163	.0038	-.0777	-.0388	-.0382
315.000	-.0827	-.1322			-.0538	-.0160

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS31)

BETAL (1) = .000 ALPHAL(4) = 4.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8211	.3592	.2783	-.0825	-.0041	.0092	-.0546	-.0473	.0234	-.0025	.0249	.3314	.1956	.1457	-.1419
45.000		.2800	.2626	-.0839	-.0899	-.0287	-.0388	-.0358	-.0153	.0085	-.0087				
90.000		.2268	.2315	-.1004	-.0885	-.1059	-.0519	-.0894	.0024	.0173	.1333		.0441	.0276	
135.000		.2035	.1638	-.1176	-.1168	-.0494	-.0426	-.0151	.0101	.0041	.1941				
180.000	1.8211	.1792	.0942	-.1501	-.0625	-.0827	-.1171	.0814	.0225	-.0134	.2729	.5141	.2255	.1580	-.0852
225.000		.2010	.2139	.0002	-.0787	-.2484	-.0901	.0040	.0000	-.0101	.3414				
270.000		.2860	.8947	.2804	-.0931	-.1979	-.0972	.0930	.0392	-.0057	.2661	.8366	.3755	.2871	-.2482
315.000		.3664	.4410	.1211	.1511	-.0967	-.1002	.0357	.0433	-.0027	.4286				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1060	-.0785	.0698	-.0384	.1281	.2133
45.000	.0898	-.0182			.2371	.2835
90.000	.0813	.0061	.0691	.0183	.1830	.1882
135.000	.2600	-.0319			.2794	.2776
180.000	.2439	-.0793	.2060	-.0727	.0360	.0019
225.000	.0263	-.1940			-.0743	.0000
270.000	-.1312	-.1072	-.0183	-.0582	.0109	.0101
315.000	-.0870	-.1219			.0437	.1122

BETAL (1) = .170 ALPHAL(5) = 8.520

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7835	.4908	.4042	-.0087	.0534	.0662	.0117	.0101	.0429	.0184	-.0055	.3709	.2768	.3299	-.1222
45.000		.3247	.3090	-.0598	-.0459	-.0088	-.0279	-.0454	-.0501	-.0647	.0027				
90.000		.1930	.1963	-.1126	-.1027	-.1649	-.1477	-.1535	-.0815	-.0715	.1255		-.0378	-.0658	
135.000		.1569	.1188	-.1305	-.1395	-.0828	-.0815	-.1053	-.0871	-.0707	.1211				
180.000	1.7835	.1085	.0298	-.1621	-.0819	-.1100	-.0804	-.0094	.0107	-.0077	.2496	.4567	.0917	.0326	-.1032
225.000		.1162	.1508	-.0759	-.1842	-.2674	-.1417	-.0074	-.0055	-.0140	.3446				
270.000		.2815	.7966	.2266	-.1545	-.1788	-.1784	.0396	.0422	-.0559	.3468	.6701	.2592	.5249	-.2278
315.000		.4710	.8201	.1660	.2151	.0008	-.0340	.0158	.0888	.0372	.3880				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1986	-.0588	.1310	-.0251	.2833	.3425
45.000	.1137	.0156			.1875	.2152
90.000	.0878	.0552	.1239	.0618	.1389	.1288
135.000	.1133	-.0382			.2094	.2122
180.000	.2577	-.0849	.1569	-.0439	.0895	.0372

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS31)

BETAL (1) = .170 ALPHAL(5) = 8.520

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
225.000	.0399	-.2090			-.0795	.0000
270.000	-.1007	-.1053	.0058	-.0322	.0274	.0229
315.000	.0194	-.1258			.1148	.2144

BETAL (1) = .208 ALPHAL(6) = 10.759

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5087	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7491	.5511	.4788	.0517	.0870	.1014	.0568	.0361	.0587	.0345	.0139	.4052	.3290	.2979	-.1192
45.000		.3461	.3321	-.0495	-.0243	-.0033	-.0333	-.0395	-.0510	-.0721	.0550				
90.000		.1692	.1786	-.1194	-.1109	-.1875	-.2022	-.2068	-.1045	-.1173	.1320		-.0254	-.0243	
135.000		.1301	.0894	-.1415	-.1524	-.0998	-.1051	-.1526	-.2121	-.0681	.1098				
180.000	1.7491	.0792	.0044	-.1606	-.0924	-.1243	-.0941	-.0322	-.0244	-.0238	.2270	.4885	.0725	.0450	-.1027
225.000		.0735	.1403	-.1161	-.2126	-.2650	-.1586	.0284	-.0318	-.0173	.3046				
270.000		.2757	.7626	.1938	-.1791	-.1559	-.1531	.0140	-.0529	-.1096	.3213	.5509	.2693	.5957	-.1827
315.000		.5225	.6806	.1578	.2467	.0623	.0298	.0500	.1008	.0663	.3958				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.2020	-.0521	.1507	-.0191	.2856	.3912
45.000	.1332	-.0082			.2867	.3014
90.000	.0975	.0267	.1603	.0355	.1605	.1450
135.000	.0834	-.0305			.1846	.1449
180.000	.2197	-.0834	.1821	-.0526	.0464	.0246
225.000	.0052	-.1756			-.0464	.0000
270.000	-.0978	-.0870	-.0073	-.0092	.0524	.0460
315.000	.0654	-.1257			.1494	.2870

ARC87-019 IABI LVAP(ALLHL SEALED) SRM BOOSTER (PETS32) (04 SEP 75)

REFERENCE DATA

SREF = 8880.0000 SQ.FT. XMRP = 876.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPOBRK = 55.000

BETAL (1) = .820 ALPHAL(1) = -7.180

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7172	.1201	.0560	-.1866	-.1080	-.1252	-.1549	-.1195	-.0618	-.0472	.1210	.2982	.0784	.0887	-.1974
45.000		.1847	.1315	-.1735	-.1619	-.0774	-.0899	-.1082	-.1858	-.1869	-.0893				
90.000		.2059	.2098	-.1371	-.1231	-.1563	-.1179	-.1253	-.2165	-.1906	-.0715		-.0312	-.0134	
135.000		.3132	.2901	-.0914	-.0845	-.0354	-.0342	-.0279	-.0638	-.1157	-.0578				
180.000	1.7172	.4193	.3918	-.0109	.0303	.0094	.1367	.0881	.0131	-.0493	.0300	.3152	.2984	.2732	-.2221
225.000		.3961	.5378	.0823	.1118	-.0629	.2522	.1243	.0316	-.0102	.1957				
270.000		.2295	.8867	.2053	.1390	-.2756	-.0973	-.0976	-.0477	-.0422	.2531	.7041	.3404	.3194	-.2920
315.000		.1171	.3287	-.1131	-.2181	-.3187	-.1753	-.1306	-.0147	-.0247	.3901				

X/LS	.8102	.8861	.9120	.9130	.9344	.9565
PHI						
.000	.0597	-.1354	.1008	-.1100	.1354	.0974
45.000	-.0139	-.1734			-.0252	-.0255
90.000	-.1780	-.1375	.0622	-.1026	-.0199	.0062
135.000	.0341	-.2153			-.0413	.0167
180.000	.0805	-.2093	-.0757	-.0685	.0329	.3294
225.000	-.0410	-.1484			.1000	.0030
270.000	-.1460	-.0993	.0120	-.0770	-.0408	-.0304
315.000	-.0845	-.1315			.0015	.0218

BETAL (1) = .182 ALPHAL(2) = -4.904

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0338	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7304	.1571	.1078	-.1486	-.1020	-.1097	-.1514	-.0807	-.0271	-.0297	.1511	.2541	.0426	.1401	-.1579
45.000		.1918	.1606	-.1657	-.1485	-.0583	-.0696	-.0941	-.0923	-.0843	-.0288				
90.000		.2286	.2280	-.1307	-.1155	-.1270	-.0685	-.0770	-.1835	-.1496	-.0075		-.0079	.0301	
135.000		.2853	.2712	-.1044	-.0773	-.0386	-.0604	.0085	-.0201	-.0949	-.0299				
180.000	1.7304	.3640	.3203	-.0391	.0062	-.0217	.1332	.0894	.0179	-.0487	.0417	.3912	.2002	.2251	-.2230
225.000		.3537	.8606	.0621	.0710	-.1191	.2049	.1226	.0176	-.0069	.2533				
270.000		.2410	.9192	.2419	.0376	-.2803	-.1194	-.0920	-.0178	-.0376	.2282	.7265	.3165	.3731	-.3030
315.000		.1625	.4134	-.0802	-.1644	-.2961	-.1308	-.1682	-.0236	-.0196	.3912				

ARC87-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS32)

BETAL (1) = .182 ALPHAL(2) = -4.904

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	-.0085	-.1548	-.0031	-.1183	.1178	.1165
45.000	.0301	-.1327			.0270	.0252
90.000	-.1019	-.1187	.0349	-.1047	.0550	.1088
135.000	.1195	-.1837			.0107	.0803
180.000	.1198	-.2045	-.0458	-.0378	.0152	.2193
225.000	-.0411	-.1372			.0656	.0000
270.000	-.1411	-.0979	-.0023	-.0748	-.0366	-.0304
315.000	-.0684	-.1240			-.0147	.0093

BETAL (1) = .163 ALPHAL(3) = -.360

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7387	.2398	.1845	-.1144	-.0430	-.0691	-.1231	-.0201	.0090	.0024	.1613	.2706	.0517	.1110	-.1148
45.000		.2350	.2153	-.1405	-.1166	-.0404	-.0589	-.0621	.0251	.0133	.1049				
90.000		.2345	.2350	-.1360	-.1076	-.0868	-.0169	-.0291	-.0188	-.0008	.0954		.0559	.0893	
135.000		.2401	.2222	-.1255	-.1042	-.0477	-.0576	.0605	-.0114	-.0294	.1860				
180.000	1.7387	.2523	.1954	-.1052	-.0412	-.0749	-.0964	.1109	.0119	-.0548	.1250	.4265	.2807	.3417	-.1623
225.000		.2576	.5794	.0023	-.0303	-.2212	.0753	.0507	-.0037	-.0222	.3338				
270.000		.2478	.9439	.2699	-.1042	-.2689	-.0325	-.1342	-.0622	-.0583	.3160	.9025	.6171	.6458	-.2827
315.000		.2470	.5802	-.0066	-.0259	-.2290	-.0655	-.0280	-.0365	-.0450	.3960				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0259	-.1087	-.0324	-.1202	.0645	.0966
45.000	.0867	-.0803			.1586	.2157
90.000	-.0045	-.0674	.0303	-.0648	.2234	.2658
135.000	.2782	-.0958			.1559	.1648
180.000	.2540	-.1505	.0868	-.1181	-.0006	.1026
225.000	.0241	-.2073			.1699	.0000
270.000	-.1389	-.1078	-.0018	-.0758	-.0472	-.0434
315.000	-.0963	-.1365			-.0490	-.0091

ARC97-019 IA81 LVAP(ALL HL SEALED) SRM BOOSTER (RETS32)

BETAL (1) = .307 ALPHAL(4) = 4.093

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7348	.3517	.3002	-.0775	.0048	-.0204	-.0759	-.0340	.0208	-.0033	.1223	.3510	.1528	.1231	-.1540
45.000		.2789	.2687	-.1144	-.0891	-.0357	-.0620	-.0501	-.0034	.0112	-.0028				
90.000		.2298	.2259	-.1293	-.1131	-.1310	-.0849	-.0944	.0172	.0141	.1304		.0397	.0147	
135.000		.1998	.1598	-.1521	-.1434	-.0567	-.0667	.0327	.0104	.0025	.2452				
180.000	1.7348	.1709	.1115	-.1471	-.0954	-.1099	-.0809	.0543	.0030	-.0131	.3171	.5317	.1717	.0997	-.0836
225.000		.1837	.4183	-.0599	-.1281	-.2911	-.0496	.0029	-.0242	-.0213	.3639				
270.000		.2662	.9201	.2143	-.1626	-.2521	.0034	.0810	.0176	-.0054	.2666	.6443	.3630	.2809	-.2833
315.000		.3522	.5114	.0568	.1176	-.1289	-.1113	.0499	.0318	-.0041	.4127				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0831	-.0894	.0754	-.0349	.1635	.2427
45.000	.1114	-.0462			3142	.3456
90.000	.0981	.0007	.0854	.0047	.2107	.2126
135.000	.2841	-.0609			.2939	.2709
180.000	.2519	-.1007	.2231	-.1088	-.0096	-.0136
225.000	.0223	-.1974			-.0373	.0000
270.000	-.1436	-.1031	.0121	-.0552	.0076	-.0006
315.000	-.1078	-.1310			.0450	.1169

BETAL (1) = .402 ALPHAL(5) = 8.619

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8953	.4798	.4612	.0083	.0663	.0463	.0065	.0068	.0358	.0037	-.0069	.4200	.3498	.3815	-.1315
45.000		.3218	.3078	-.0874	-.0474	-.0327	-.0470	-.0668	-.0878	-.0838	.1862				
90.000		.1898	.1941	-.1448	-.1298	-.2032	-.1783	-.1753	-.0831	-.0805	.2077		-.0245	-.0497	
135.000		.1521	.1024	-.1708	-.1732	-.0989	-.1098	-.0821	-.0502	-.0560	.1770				
180.000	1.8953	.1037	.0218	-.1883	-.1145	-.1385	-.0871	.0147	.0029	.0289	.3050	.4975	.0689	-.0149	-.0783
225.000		.0973	.2592	-.1366	-.2409	-.3148	-.0784	-.0441	-.0378	.0389	.3965				
270.000		.2584	.8417	.1571	-.2261	-.2272	-.1758	.0453	-.0111	-.0489	.3798	.6788	.2578	.4072	-.2204
315.000		.4543	.5433	.1042	.1972	-.0043	-.0283	.0706	.0693	.0281	.3709				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.2044	-.0818	.1672	-.0238	.2983	.3817
45.000	.1531	-.0063			.2218	.2274
90.000	.1202	.0322	.1490	.0495	.1490	.1408
135.000	.1608	-.0508			.2598	.2381
180.000	.2204	-.1053	.1888	-.0774	-.0006	-.0058

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS32)

BETAL (1) = .402 ALPHAL(5) = 8.819

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.3344	.8585
PHI						
225.000	.0114	-.2099			-.0019	.0000
270.000	-.1140	-.0885	.0176	-.0228	.0345	.0318
315.000	.0789	-.1290			.1358	.2278

BETAL (1) = .442 ALPHAL(6) = 10.885

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8639	.5452	.5412	.0320	.0997	.0819	.0432	.0331	.0521	.0250	.0218	.4473	.3997	.3382	-.1486
45.000		.3448	.3328	-.0738	-.0305	-.0313	-.0600	-.0542	-.0745	-.1054	.1881				
90.000		.1629	.1711	-.1541	-.1386	-.2317	-.2428	-.2357	-.0932	-.1144	.1925		-.0133	-.0184	
135.000		.1260	.0793	-.1823	-.1862	-.1218	-.1331	-.1510	-.2015	-.0456	.1777				
180.000	1.8639	.0764	.0129	-.1773	-.1270	-.1515	-.1014	-.0157	-.0088	.0113	.2245	.4260	.1610	.1137	-.0989
225.000		.0567	.1786	-.1767	-.2696	-.2872	-.0903	-.0423	-.0472	.0316	.3492				
270.000		.2534	.7970	.1234	-.2404	-.1980	-.1792	.0083	-.0628	-.1044	.3857	.6500	.1871	.5971	-.2105
315.000		.5041	.6015	.1211	.2334	.1500	.0352	.0719	.0928	.0647	.3800				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.2110	-.0884	.1798	-.0115	.3239	.4117
45.000	.1799	-.0179			.2268	.2816
90.000	.1108	-.0071	.1848	.0062	.1801	.1516
135.000	.1065	-.0534			.1123	.0927
180.000	.1494	-.1027	.1732	-.0705	.0083	.0136
225.000	-.0102	-.1688			.0439	.0300
270.000	-.1148	-.0732	.0157	.0031	.0550	.0480
315.000	.0814	-.1204			.1740	.2802

ARC97-019 IA8! LVAP(ALLHL SEALED) SRM BOOSTER (RETS33) (04 SEP 75)

REFERENCE DATA

SREF = 2080.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = 55.000

BETAL (1) = .879 ALPHAL(1) = -7.209

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5035	.0748	.1786	-.8891	-.2478	-.2225	-.1606	-.0704	-.0808	-.0738	.2097	.3191	.0713	.0438	-.2652
45.000		.1350	.0901	-.3085	-.2284	-.1585	-.1590	-.1432	-.1580	-.2179	.0479				
90.000		.1802	.2000	-.2733	-.2191	-.2303	-.1652	-.2787	-.2499	-.2155	.0162		-.0936	-.0457	
135.000		.2788	.3537	-.2038	-.1483	-.1075	-.0326	-.1038	-.1747	-.2088	-.1193				
180.000	1.5035	.3748	.5125	-.1510	-.0803	-.0542	.1557	-.0157	-.0795	-.1209	.1135	.5524	.1782	.0124	-.3613
225.000		.3860	.6831	-.1188	-.0265	-.0765	.2037	.0223	-.0181	-.1133	.3257				
270.000		.1327	.7183	-.0506	.0463	-.4620	-.1844	-.0831	-.0761	-.0668	.3194	.7270	.3256	.4518	-.3427
315.000		.0380	.2180	-.3144	-.3965	-.3882	-.2484	-.1090	-.0415	-.0421	.3657				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0150	-.1912	.0589	-.1172	.2596	.1490
45.000	-.0051	-.1898			.0316	-.0125
90.000	-.1243	-.1322	.0098	.0044	.0527	.0945
135.000	.0566	-.1935			.1469	.3785
180.000	.0389	-.2744	.0163	.0251	.3027	.2584
225.000	-.1400	-.1914			.0072	.0000
270.000	-.1714	-.1524	-.0455	-.1325	-.1045	-.0931
315.000	-.1327	-.1852			.0072	.0095

BETAL (1) = .806 ALPHAL(2) = -4.891

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5167	.1108	.2172	-.2718	-.2252	-.2144	-.1883	-.0341	-.0480	-.0585	.1915	.3035	.0505	[illegible]	
45.000		.1842	.1368	-.2824	-.2108	-.1220	-.1362	-.0881	-.0504	-.0825	.1249				
90.000		.1985	.2133	-.2624	-.2025	-.1705	-.1124	-.1920	-.1548	-.1493	.0951		-.0642	.0340	
135.000		.2619	.3168	-.2038	-.1514	-.0998	-.0049	-.0589	-.1413	-.1359	.0098				
180.000	1.5167	.3205	.4649	-.1672	-.1075	-.0949	.1597	-.0106	-.0576	-.1185	.1490	.7166	.0912	.0564	-.339
225.000		.2825	.6183	-.1385	-.0866	-.1561	.2143	-.0222	-.0291	-.1120	.3445				
270.000		.1498	.7723	-.0172	-.0724	-.3241	-.1930	-.1062	-.0695	-.0599	.3411	.8506	.3809	.3[illegible]	-.3456
315.000		.0895	.3012	-.2769	-.3280	-.3181	-.1925	-.1279	-.0381	-.0303	.3788				

ARC87-019 !AB! LVAP(ALL HL SEALED) SRM BOOSTER (RETS33)

BETAL (1) = .808 ALPHAL(2) = -4.891

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0119	-.2017	.1403	-.1412	.1926	.0906
45.000	.0239	-.1663			.0891	.0707
90.000	-.0744	-.1318	.0580	.0208	.1475	.1926
135.000	.1389	-.2386			.1530	.3088
180.000	.1182	-.2076	.0139	.0422	.1711	.2096
225.000	-.1107	-.2038			.0120	.0000
270.000	-.1868	-.1487	-.0478	-.1220	-.0931	-.0833
315.000	-.1311	-.1924			-.0214	.0113

BETAL (1) = .497 ALPHAL(3) = -.308

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5887	.6986	.7280	.7290	.7360	.7370
PHI															
.000	1.5241	.1978	.3401	-.2257	-.1754	-.1826	-.0883	-.0140	-.0183	-.0142	.2318	.3832	-.0282	.1720	-.1646
45.000		.2111	.2073	-.2481	-.1725	-.0892	-.1039	.0225	.0108	-.0249	.2419				
90.000		.2166	.2101	-.2737	-.1831	-.0977	-.0757	-.0348	.0101	-.0280	.1869		-.0170	.0244	
135.000		.2163	.2238	-.2241	-.1723	-.0918	.0481	-.0150	-.0318	-.0425	.3088				
180.000	1.5241	.1997	.3492	-.2097	-.1645	-.1599	.0812	-.0204	-.0745	.0000	.3249	.8275	.0226	-.0246	-.2778
225.000		.1762	.4830	-.1955	-.1768	-.2027	.0832	-.0173	-.0363	-.0503	.4017				
270.000		.1543	.8259	.0335	-.3205	-.2682	-.2174	-.2148	-.1217	-.0578	.2642	.8229	.3418	.4109	-.3643
315.000		.1658	.4827	-.2019	-.1872	-.2626	-.0964	-.0818	-.0576	-.0306	.3749				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0092	-.1849	.0078	-.0680	.1097	.1397
45.000	.0878	-.1464			.2889	.3101
90.000	-.0173	-.1497	.0698	.0173	.3114	.3509
135.000	.2787	-.2487			.1953	.2857
180.000	.2024	-.2078	.0838	.0587	.1252	.1638
225.000	-.1182	-.2112			.1099	.0000
270.000	-.1686	-.1394	.0055	-.0835	-.0504	-.0443
315.000	-.1492	-.1802			-.0403	-.0187

ARC87-019 IABI LVAP(ALLHL SEALED) SRM BOOSTER (RETS33)

BETAL (1) = .848 ALPHAL(4) = 4.174

SECTION : 1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6986	.7280	.7290	.7360	.7370
PHI															
.000	1.5078	.3187	.4468	-.1808	-.1182	-.1252	-.0853	.0041	-.0088	-.0017	.2202	.3918	.0523	.0235	-.1880
45.000		.2811	.3147	-.2238	-.1533	-.1033	-.1693	-.0150	.0010	-.0089	.3004				
90.000		.2032	.2014	-.2630	-.1978	-.1708	-.1263	-.0355	.0113	-.0330	.2898		-.0777	-.0920	
135.000		.1678	.1304	-.2735	-.2089	-.1260	-.0331	.0023	.0242	-.0086	.3118				
180.000	1.5078	.1155	.2318	-.2545	-.2282	-.1072	-.0308	-.0044	-.0228	.0040	.3752	.5805	.0089	-.0319	-.1425
225.000		.0968	.3230	-.2679	-.3132	-.1808	-.0878	-.0106	.0141	.0700	.4040				
270.000		.1668	.7210	-.0212	-.4010	-.1971	-.0284	.0315	-.0032	.0602	.1565	.5684	.2677	.1910	-.2707
315.000		.2739	.6246	-.1355	-.0323	-.1436	-.0445	.0315	-.0079	.0253	.3543				
X/LS	.8102	.8681	.9120	.9130	.9344	.9565									
PHI															
.000	.0458	-.1198	.0998	.0315	.2370	.2868									
45.000	.1236	-.1248			.3588	.3865									
90.000	.0555	-.0683	.1069	.0679	.2272	.1890									
135.000	.2544	-.2018			.2559	.3251									
180.000	.1513	-.1557	.1500	.0830	.1205	.1115									
225.000	-.0616	-.2330			.2316	.0000									
270.000	-.1378	-.1183	.0699	-.0450	.0136	.0106									
315.000	-.1250	-.1490			.0506	.1008									

BETAL (1) = .782 ALPHAL(5) = 8.847

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4663	.4378	.5481	-.1472	-.0606	-.0490	-.0638	.0202	-.0183	-.0239	.2350	.5626	.2671	.2096	-.2690
45.000		.2978	.3494	-.2125	-.1465	-.1137	-.1238	-.0977	-.1181	-.0552	.3064				
90.000		.1487	.1762	-.2878	-.2389	-.3318	-.2563	-.1468	-.0734	-.0249	.3135		-.1173	-.1535	
135.000		.1105	.0537	-.3140	-.2548	-.1808	-.1411	-.0178	.0005	-.0418	.2416				
180.000	1.4863	.0433	.1097	-.2881	-.2652	-.2015	-.0499	.0010	.0377	.1485	.3135	.5266	.0467	-.0585	-.1306
225.000		-.0090	.1297	-.3678	-.4221	-.3134	-.0723	-.0258	.0267	.1948	.3922				
270.000		.1414	.6538	-.0869	-.4089	-.3028	-.0592	-.0859	.0010	.1832	.3345	.5979	.1992	.2372	-.2838
315.000		.3879	.6852	-.1075	.0432	-.0581	-.0137	.0731	.0228	.0281	.4113				
X/LS	.8102	.8681	.9120	.9130	.9344	.9565									
PHI															
.000	.1839	-.1114	.2421	.0231	.3834	.4454									
45.000	.1865	-.1042			.3275	.3852									
90.000	.0912	-.0688	.1834	.0603	.2118	.1731									
135.000	.1904	-.1581			.2052	.2017									
180.000	.0833	-.1127	.1879	.0513	.1020	.0716									

ARC97-010 IAS1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS33)

BETAL (1) = .782 ALPHAL(5) = 8.647

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
225.000	-.0478	-.1985			.1578	.0000
270.000	-.1521	-.0905	.1187	-.0020	.0847	.0379
315.000	-.0781	-.1720			.2008	.2372

ARC97-019 IAB; LVAP(ALLHL SEALED) SRM BOOSTER (RETS34) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = 0.000 ELV-OB = -4.000
RUDDER = .000 SPOBRK = .000

BETAL (1) = .609 ALPHAL(1) = -6.947

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

Y/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5063	.0772	.1582	-.2800	-.2487	-.2306	-.1664	-.0664	.0000	-.0746	.1929	.2991	.0651	.0418	-.2564
45.000		.1306	.1068	-.2945	-.2281	-.1647	-.1603	-.1506	-.1262	-.1916	.0473				
90.000		.1860	.2075	-.2683	-.2210	-.2355	-.1477	-.2728	-.2471	-.2085	.0295		-.0898	-.0512	
135.000		.2735	.3549	-.2068	-.1524	-.1190	-.0313	-.1002	-.1738	-.2038	-.1138				
180.000	1.5063	.3649	.5048	-.1557	-.0923	-.0601	.1597	-.0223	-.0827	-.1206	.1168	.5748	.0000	-.0033	-.3543
225.000		.3194	.6619	-.1225	-.0511	-.1019	.2090	.0148	-.0191	-.1174	.3232				
270.000		.0000	.7372	-.0379	.0281	-.4633	-.1834	-.0773	-.0733	-.0687	.3190	.7476	.3834	.5585	-.3368
315.000		.0438	.2309	-.3227	-.4083	-.3950	-.2686	-.1127	-.0379	-.0441	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0085	-.1919	.0467	-.1186	.2389	.0000
45.000	-.0023	-.1829			.0368	-.0083
90.000	-.1112	-.1240	.1248	.0104	.0696	.1066
135.000	.0877	-.2096			.1713	.3792
180.000	.0432	-.2350	.0673	.0339	.3731	.3464
225.000	-.1392	-.2115			.0419	.0000
270.000	-.1713	-.1610	-.0343	-.1306	-.0968	-.0794
315.000	-.1318	-.2054			.0220	.0110

BETAL (1) = .544 ALPHAL(2) = -4.703

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5139	.1186	.2331	-.2581	-.2272	-.2086	-.1726	-.0251	.0000	-.0547	.1891	.3163	.0493	.0831	-.2060
45.000		.1677	.1493	-.2674	-.2092	-.1241	-.1358	-.0977	-.0507	-.0831	.1299				
90.000		.2086	.2239	-.2552	-.2032	-.1708	-.1096	-.1822	-.1484	-.1457	.1014		-.0824	-.0025	
135.000		.2597	.3032	-.2098	-.1526	-.1036	-.0020	-.0571	-.1388	-.1328	.0178				
180.000	1.5139	.3169	.4647	-.1708	-.1157	-.0972	.1482	-.0116	-.0641	-.1199	.1504	.7182	.0000	-.0406	-.3304
225.000		.2816	.6142	-.1385	-.0981	-.1683	.2046	-.0177	-.0328	-.1122	.3355				
270.000		.0000	.7872	-.0072	-.0936	-.3149	-.1992	-.1112	-.0698	-.0583	.3346	.8564	.4037	.5538	-.3385
315.000		.0943	.3172	-.2765	-.3351	-.3211	-.1989	-.1278	-.0383	-.0309	.0000				

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS34)

BETAL (1) = .544 ALPHAL(2) = -4.703

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9585
PHI						
.000	.0180	-.2058	.1514	-.1359	.1294	.0000
45.000	.0382	-.1520			.0924	.0946
90.000	-.0611	-.1120	.1135	.0412	.1581	.1970
135.000	.1340	-.2231			.1884	.3411
180.000	.1257	-.2292	.0652	.1065	.2961	.2938
225.000	-.1088	-.2206			.0572	.0000
270.000	-.1616	-.1498	-.0373	-.1151	-.0843	-.0658
315.000	-.1302	-.2001			-.0165	.0204

BETAL (1) = .492 ALPHAL(3) = -2.473

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6995	.7280	.7290	.7380	.7370
PHI															
.000	1.5218	.1553	.2941	-.2433	-.2071	-.1969	-.1468	-.0043	.0000	-.0312	.2311	.3828	.0129	.1068	-.1669
45.000		.1904	.1815	-.2546	-.1946	-.1002	-.1193	-.0123	-.0138	-.0554	.2026				
90.000		.2159	.2070	-.2556	-.1988	-.1149	-.0871	-.1071	-.0581	-.0725	.1337		-.0460	.0319	
135.000		.2386	.2718	-.2113	-.1613	-.0986	.0338	-.0322	-.0922	-.0796	.2388				
180.000	1.5218	.2584	.4049	-.1917	-.1450	-.1367	.1138	-.0328	-.0622	-.0928	.2372	.7884	.0000	-.0224	-.3176
225.000		.2266	.5580	-.1649	-.1377	-.1949	.1737	-.0318	-.0280	-.0925	.3650				
270.000		.0000	.8188	.0163	-.2257	-.3050	-.2364	-.1279	-.0760	-.0528	.3291	.8759	.3958	.5391	-.3310
315.000		.1291	.4014	-.2426	-.2666	-.2960	-.1455	-.1314	-.0506	-.0277	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9585
PHI						
.000	-.0129	-.2293	.0527	-.0656	.1256	.0000
45.000	.0784	-.1441			.2218	.2570
90.000	-.0303	-.1473	.0982	.0610	.2385	.2893
135.000	.1945	-.2201			.1923	.2630
180.000	.1926	-.2169	.0831	.1118	.2631	.2970
225.000	-.0915	-.2277			.1007	.0000
270.000	-.1598	-.1409	-.0310	-.1037	-.0736	-.0530
315.000	-.1329	-.1752			-.0374	.0013

ARC87-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS34)

BETAL (1) = .459 ALPHAL(4) = -.248

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5848	.1944	.3414	-.2178	-.1798	-.1684	-.0818	-.0148	.0000	-.0128	.8330	.3782	-.0388	.1638	-.1941
45.000		.2128	.2150	-.8448	-.1781	-.0948	-.1052	.0184	.0133	-.0847	.8488				
90.000		.2154	.2083	-.2607	-.1778	-.0984	-.0771	-.0308	.0059	-.0288	.1831		-.0187	.0188	
135.000		.2141	.2294	-.2313	-.1789	-.1020	.0474	-.0158	-.0334	-.0408	.3072				
180.000	1.5842	.2081	.3497	-.2118	-.1703	-.1623	.0519	-.0200	-.0733	-.0685	.3308	.8158	.0000	-.0077	-.2848
225.000		.1718	.4778	-.2013	-.1891	-.2078	.0752	-.0104	-.0372	-.0475	.3995				
270.000		.0000	.8338	.0324	-.3277	-.2705	-.2237	-.2224	-.1244	-.0556	.2669	.7981	.3190	.3973	-.3170
315.000		.1698	.4878	-.2045	-.1938	-.2687	-.0972	-.0570	-.0559	-.0278	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
.000	-.0003	-.1817	.0181	-.0625	.1110	.0000
45.000	.0988	-.1383			.2809	.2939
90.000	-.0122	-.1427	.0918	.0439	.3181	.3346
135.000	.2718	-.2068			.2074	.2635
180.000	.2035	-.2024	.1170	.1097	.2131	.2564
225.000	-.1152	-.2136			.1574	.0000
270.000	-.1622	-.1357	.0257	-.0757	-.0447	-.0341
315.000	-.1448	-.1715			-.0399	-.0148

BETAL (1) = .515 ALPHAL(5) = 1.929

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5156	.2494	.3999	-.1982	-.1495	-.1600	-.0881	-.0110	.0000	-.0034	.2287	.3984	.0440	.1060	-.1521
45.000		2373	.2589	-.2844	-.1838	-.0986	-.1021	.0087	.0138	-.0117	.2601				
90.000		.2218	.2018	-.2568	-.1975	-.1233	-.0925	.0094	.0278	-.0248	.2621		-.0340	-.0231	
135.000		.1919	.1802	-.2556	-.1988	-.0988	.0209	-.0038	.0088	-.0185	.3841				
180.000	1.5155	.1529	.3018	-.2383	-.2081	-.1450	.0116	-.0187	-.0559	-.0210	.3922	.7788	.0000	.0219	-.2885
225.000		.1345	.3942	-.2354	-.2482	-.2217	-.0415	.0069	-.0524	-.0197	.4314				
270.000		.0000	.8037	.0091	-.3294	-.2386	-.0760	-.0323	-.0833	-.0197	.2139	.7518	.3493	.3601	-.3294
315.000		.2183	.5634	-.1673	-.0886	-.1693	-.0861	-.0087	-.0322	-.0050	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
.000	.0235	-.1465	.0559	-.0027	.1887	.0000
45.000	.1126	-.0888			.2483	.2420
90.000	-.0340	-.1299	.1123	.0349	.3548	.3273
135.000	.3038	-.1920			.2154	.2685
180.000	.2037	-.1974	.1414	.0938	.1922	.2168

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS34)

BETAL (1) = .515 ALPHAL(8) = 1.929

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0964	-.2022			.1848	.0000
270.000	-.1643	-.1347	.0607	-.0636	-.0180	-.0121
315.000	-.1340	-.1586			-.0048	.0251

BETAL (1) = .580 ALPHAL(8) = 3.841

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4760	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5058	.3092	.4479	-.1749	-.1237	-.1355	-.1023	.0005	.0000	-.0021	.2049	.3937	.0548	.0283	-.1813
45.000		.2556	.3018	-.2201	-.1590	-.1065	-.1083	-.0179	.0005	-.0098	.2896				
90.000		.2023	.2001	-.2628	-.2039	-.1695	-.1238	-.0090	.0098	-.0339	.2803		-.0739	-.0849	
135.000		.1658	.1360	-.2778	-.2151	-.1269	-.0412	.0008	.0238	-.0063	.3168				
180.000	1.5058	.1157	.2418	-.2530	-.2297	-.1192	-.0256	-.0033	-.0297	.0014	.3733	.6339	.0000	-.0006	-.1475
225.000		.0931	.3143	-.2743	-.3224	-.1921	-.0915	-.0020	-.0162	.0642	.3959				
270.000		.0000	.7750	-.0142	-.4007	-.1998	-.0389	.0234	-.0101	.0585	.1533	.5595	.2647	.1739	-.2677
315.000		.2702	.8195	-.1409	-.0403	-.1331	-.0421	.0231	-.0137	.0232	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0558	-.1180	.0995	.0383	.2337	.0000
45.000	.1300	-.1202			.3643	.3726
90.000	.0658	-.0575	.1287	.0786	.2444	.1915
135.000	.2684	-.1724			.2429	.2811
180.000	.1606	-.1660	.1782	.0925	.1750	.1778
225.000	-.0638	-.2663			.2533	.0000
270.000	-.1425	-.1148	.0504	-.0330	.0224	.0228
315.000	-.1262	-.1466			.0838	.1075

BETAL (1) = .630 ALPHAL(7) = 8.221

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4924	.3636	.4962	-.1807	-.0918	-.1049	-.0701	.0017	.0000	-.0097	.2607	.5104	.2291	.1619	- 2255
45.000		.2681	.3413	-.2138	-.1556	-.1128	-.1275	-.0541	-.0378	-.0212	.3191				
90.000		.1788	.1985	-.2687	-.2213	-.2296	-.1772	-.0567	-.0302	-.0283	.2990		-.0837	-.1100	
135.000		.1352	.0967	-.3001	-.2331	-.1511	-.0908	-.0031	.0212	.0051	.2581				
180.000	1.4924	.0806	.1654	-.2902	-.2525	-.1565	-.0411	-.0006	.0077	.0964	.3395	.5097	.0000	-.0525	-.1094
225.000		.0462	.2322	-.3173	-.3913	-.2439	-.0793	-.0073	.0193	.1608	.3714				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS34)

BETAL (1) = .630 ALPHAL(7) = 6.221

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.6887	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.7357	-.0414	-.3884	-.2313	-.0325	-.0022	.0122	.1287	.2872	.5119	.2332	.2176	-.2811
315.000		.3182	.6687	-.1224	-.0114	-.1100	-.0506	.0399	.0009	.0212	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.1199	-.0978	.2076	.0488	.3067	.0000
45.000	.1419	-.0936			.3833	.3798
90.000	.0931	-.0237	.1828	.0804	.1834	.1412
135.000	.2188	-.1485			.2746	.2819
180.000	.1053	-.1313	.1831	.0838	.1545	.1293
225.000	-.0735	-.2819			.1974	.0009
270.000	-.1468	-.0965	.0984	-.0087	.0565	.0407
315.000	-.1009	-.1495			.1577	.2002

ARC97-019 IA81 LVAP(ALL HL SEALED) SRM BOOSTER (RETS35) (04 SEP 75)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = -4.000
RUDDER = .000 SPOBRK = .000

ALPHAL(1) = -7.069 BETAL (1) = -3.883

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5540	.1302	.2137	-.2558	-.2280	-.1968	-.2093	-.1685	-.1128	-.1394	.0931	.1083	.0688	.0028	-.2948
45.000		.1980	.1590	-.2771	-.2074	-.1570	-.1784	-.2163	-.2568	-.1823	-.0414				
90.000		.2693	.2994	-.2328	-.1671	-.1925	-.1421	-.2456	-.3812	-.2843	.5640		-.0893	-.0311	
135.000		.3781	.4330	-.1852	-.1019	-.0513	.0843	.0098	-.1131	-.1311	-.0953				
180.000	1.5540	.4266	.5539	-.1414	-.0694	-.0462	.2630	.0757	.0092	-.0238	.0348	.4559	.2846	.1860	-.3385
225.000		.3467	.6783	-.1148	-.0278	-.1401	.2903	.0685	.0242	-.0385	.3583				
270.000		.1613	.7176	-.0586	-.0107	-.4321	-.1593	-.2014	.0000	-.0561	.7452	.9289	.5308	.5616	-.4284
315.000		.0802	.2399	-.3166	-.3883	-.3479	-.2115	-.1380	-.0280	-.0379	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0130	-.1930	.1038	-.1057	-.0184	-.0553
45.000	-.0243	-.1654			-.0034	-.0212
90.000	-.2107	-.1831	.0000	-.0254	.1002	.1394
135.000	.1819	-.2641			.2308	.4183
180.000	.1819	-.1962	.0547	.1765	.5187	.4680
225.000	-.1066	-.1800			.1962	.0000
270.000	-.1758	-.1135	-.0078	-.0882	-.0560	.2870
315.000	-.1193	-.1190			.0865	.1120

ALPHAL(1) = -7.011 BETAL (2) = -1.511

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5311	.1029	.1983	-.2577	-.2423	-.2137	-.1833	-.1329	-.0998	-.0947	.1303	.2537	.0318	-.0060	-.2925
45.000		.1672	.1300	-.2927	-.2226	-.1568	-.1632	-.1954	-.1628	-.2225	-.0225				
90.000		.2284	.2482	-.2545	-.2029	-.2185	-.1438	-.2858	-.3423	-.2392	.5795		-.0916	-.0357	
135.000		.3344	.3898	-.1898	-.1279	-.0862	.0334	-.0542	-.1448	-.1734	-.1056				
180.000	1.5311	.4062	.5382	-.1470	-.0805	-.0554	.2218	.0251	-.0292	-.0767	.0813	.5879	.1700	.0535	-.3604
225.000		.3344	.6788	-.1171	-.0354	-.1190	.2569	.0417	.0048	-.0899	.3353				
270.000		.1447	.7294	-.0503	.0180	-.4884	-.1709	-.1408	-.0517	-.0813	.3218	.8095	.3740	.8505	-.3869
315.000		.0575	.2389	-.3183	-.3978	-.3774	-.2330	-.1275	-.0318	-.0382	.0000				

ARC87-018 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS35)

ALPHAL(1) = -7.011 BETAL (2) = -1.511

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

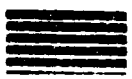
X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0137	-.1870	.0482	-.1119	.0218	-.0209
45.000	-.0108	-.1839			.0021	-.0307
90.000	-.1685	-.1845	.0000	-.0272	.0682	.0978
135.000	.1214	-.2488			.2133	.4133
180.000	.1363	-.2073	.0593	.1230	.4439	.4123
225.000	-.1442	-.1601			.1163	.0000
270.000	-.1772	-.1223	-.0189	-.0958	-.0673	-.0421
315.000	-.1140	-.1505			.0787	.0579

ALPHAL(1) = -8.779 BETAL (3) = .805

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5044	.0750	.1585	-.2938	-.2479	-.2241	-.1642	-.0705	-.0785	-.0717	.1998	.3044	.0658	.0484	-.2568
45.000		.1329	.1093	-.2985	-.2269	-.1590	-.1591	-.1483	-.1362	-.2210	.0455				
90.000		.1787	.2107	-.2677	-.2174	-.2301	-.1534	-.2713	-.2512	-.2101	.6265		-.0873	-.0511	
135.000		.2780	.3545	-.2031	-.1489	-.1083	-.0335	-.1043	-.1728	-.2020	-.1160				
180.000	1.5044	.3844	.5108	-.1511	-.0873	-.0562	.1563	-.0186	-.0835	-.1189	.1101	.5698	.1739	.0069	-.3556
225.000		.3231	.6655	-.1181	-.0436	-.0870	.2039	.0187	-.0142	-.1153	.3229				
270.000		.1374	.7305	-.0432	.0300	-.4629	-.1834	-.0785	-.0681	-.0675	.3178	.7597	.3717	.5744	-.3339
315.000		.0397	.2277	-.3202	-.4062	-.3928	-.2579	-.1088	-.0383	-.0412	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0186	-.1896	.0544	-.1158	.2426	.1354
45.000	-.0002	-.1779			.0372	-.0096
90.000	-.1138	-.1201	.0000	.0114	.0630	.1070
135.000	.0633	-.2014			.1719	.3837
180.000	.0455	-.2312	.0685	.0312	.3765	.3512
225.000	-.1335	-.2112			.0442	.0000
270.000	-.1708	-.1595	-.0319	-.1273	-.0947	-.0780
315.000	-.1303	-.2039			.0155	.0133



ARC87-019 1AB1 LVAP(ALLHL SEALED) SRM BOOSTER (RET535)

ALPHAL(1) = -6.908 BETAL (4) = 2.779

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4758	.0453	.1803	-.2880	-.2582	-.2446	-.1382	-.0388	-.0582	-.0593	.2055	.3515	.0681	.0334	-.1400
45.000		.1014	.0810	-.3119	-.2378	-.1613	-.1529	-.0834	-.0707	-.1852	.1340				
90.000		.1385	.1722	-.2880	-.2481	-.2385	-.1883	-.2538	-.1969	-.1881	.0823		-.1390	-.1051	
135.000		.2318	.3058	-.2249	-.1823	-.1368	-.0821	-.1440	-.2131	-.2268	-.0503				
180.000	1.4758	.3373	.4937	-.1588	-.0984	.0726	.0855	-.0369	-.1262	.0000	.0810	.4405	.0791	-.0141	-.3817
225.000		.3020	.6549	-.1203	-.0323	.1184	.1450	.0224	-.0548	-.0812	.2771				
270.000		.1224	.7335	-.0307	.0278	-.4498	-.2039	-.0420	-.0799	-.0497	.2944	.8695	.3306	.5388	-.3325
315.000		.0182	.2228	-.3240	-.4114	-.3728	-.2533	-.0914	-.0418	-.0397	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.1014	-.1729	.1254	-.1171	.3505	.2782
45.000	.0897	-.1784			.0664	.0234
90.000	-.0329	-.0577	.0000	.0393	.0718	.0585
135.000	.0092	-.1142			.2624	.3579
180.000	-.0155	-.2193	.3281	-.0352	.3061	.2909
225.000	-.1457	-.1888			.0062	.0000
270.000	-.1628	-.1520	-.0813	-.1212	-.0839	-.0732
315.000	-.1187	-.2304			.0852	.2168

ALPHAL(1) = -6.847 BETAL (5) = 4.852

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4818	.0181	.1828	-.2C35	-.2699	-.2479	-.1068	-.0379	-.0414	.0180	.2860	.4394	-.0147	-.0876	-.3822
45.000		.0861	.0867	-.3185	-.2478	-.1578	-.1173	-.0820	-.0567	-.0628	.2113				
90.000		.0948	.1324	-.3042	-.2661	-.2480	-.1842	-.2219	-.1890	-.0857	.1522		-.1478	-.1077	
135.000		.1782	.2456	-.2435	-.2068	-.1513	-.1221	-.1715	-.2409	-.2277	.0626				
180.000	1.4818	.3087	.4800	-.1704	-.1173	.0948	.0141	-.0446	-.1451	-.1550	.1400	.8671	-.0088	-.1070	-.3569
225.000		.2898	.8418	-.1258	-.0444	.1895	.1139	.0061	-.0753	-.0689	.2719				
270.000		.1108	.7508	-.0133	.0026	-.2289	-.2251	-.0108	-.0730	-.0374	.3134	.9481	.3478	.4386	-.3575
315.000		.0058	.2279	-.3255	-.4146	-.3593	-.2707	-.0417	-.0345	.0041	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0880	-.1987	.1120	-.1406	.3368	.3478
45.000	.0894	-.2006			.0804	.0480
90.000	-.0331	-.0756	.0000	.0367	.0585	.0361
135.000	.0048	-.1300			.2704	.3044
180.000	.0382	-.2403	.2403	-.0038	.2631	.1909

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS33)

ALPHAL(1) = -6.847 BETAL (5) = 4.952

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
225.000	-.1770	-.1500			.0387	.0000
270.000	-.1599	-.1325	-.0143	-.0837	-.0647	-.0817
315.000	-.1378	-.1837			.0829	.1765

ALPHAL(2) = -4.813 BETAL (1) = -5.772

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5834	.2066	.2675	-.2244	-.1997	-.1685	-.1856	-.1218	.0000	-.0597	.1174	.1533	-.0828	-.0012	-.2258
45.000		.2793	.2310	-.2433	-.1752	-.1128	-.1356	-.1578	-.1741	-.1123	.0973				
90.000		.3459	.3425	-.2067	-.1351	-.1275	-.1028	-.1321	-.2314	-.2206	.0162		-.0025	.0430	
135.000		.4040	.4405	-.1599	-.0982	-.0268	.1364	.0840	-.0347	-.0475	.0037				
180.000	1.5834	.4009	.5139	-.1523	-.0905	-.0746	.2888	.1192	-.0283	.0047	.3011	.5102	.0000	.3355	-.2730
225.000		.3193	.6317	-.1367	-.0560	-.2367	.3018	.0827	.0457	-.0193	.4698				
270.000		.0000	.7539	-.0421	-.1163	-.3937	-.1627	-.2384	-.0065	-.0491	.3663	1.0431	.7123	.6473	-.4776
315.000		.1567	.3282	-.2669	-.3020	-.3460	-.1498	-.1939	-.0027	-.0299	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
.000	-.0042	-.1718	.0282	-.0703	.0059	.0000
45.000	.0219	-.2008			.1183	.1748
90.000	-.2178	-.2159	.1091	-.0371	.1754	.2455
135.000	.2453	-.2358			.2196	.3983
180.000	.2480	-.2221	.084,	.1703	.3829	.4407
225.000	-.0559	-.1473			.2297	.0000
270.000	-.1786	-.1193	.0089	-.0728	-.0382	-.0304
315.000	-.1345	-.1381			.0575	.0283

ALPHAL(2) = -4.778 BETAL (2) = -3.715

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5844	.1707	.2523	-.2234	-.2098	-.1784	-.1770	-.0971	.0000	-.0604	.1218	.2161	-.0608	.0332	-.2018
45.000		.2342	.2044	-.2568	-.1857	-.1166	-.1512	-.1347	-.1305	-.1097	.0685				
90.000		.2888	.3028	-.2283	-.1574	-.1459	-.1153	-.1589	-.2423	-.1895	.0179		-.0262	.0178	
135.000		.3510	.4025	-.1739	-.1168	-.0513	.0977	.0369	-.0850	-.0895	-.0203				
180.000	1.5844	.3669	.5047	-.1574	-.0994	-.0857	.2492	.0729	-.0030	-.0344	.2237	.4672	.0000	.2637	-.2937
225.000		.2993	.6285	-.1376	-.0692	-.2223	.2781	.0391	.0252	-.0427	.4192				

ARC97-019 IAB1 LVAP(ALL HL SEALED) SRM BOOSTER (RETS35)

ALPHAL(2) = -4.778 BETAL (2) = -3.715

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.7580	-.0332	-.1150	-.3879	-.1687	-.2278	-.0132	-.0488	.3705	.9685	.6367	.8418	-.4441
315.000		.1256	.3072	-.2704	-.3172	-.3377	-.1655	-.1697	-.0094	-.0331	.0000				

X/LS	.8102	.8881	.9120	.9130	.9344	.9585
PHI						
.000	-.0242	-.1419	.0178	-.0911	.0148	.0000
45.000	.0425	-.1667			.0955	.1405
90.000	-.1888	-.2002	.0611	-.0338	.1763	.2254
135.000	.2199	-.2400			.2086	.3914
180.000	.2138	-.2161	.0706	.1623	.3933	.4341
225.000	-.0740	-.1314			.1642	.0000
270.000	-.1642	-.0944	-.0274	-.0831	-.0627	-.0444
315.000	-.1129	-.0976			-.0089	-.0418

ALPHAL(2) = -4.691 BETAL (3) = .549

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0325	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5174	.1185	.2124	-.2819	-.2262	-.2090	-.1708	-.0313	.0000	-.0554	.1863	.3017	.0412	.0757	-.2020
45.000		.1603	.1447	-.2744	-.2118	-.1242	-.1345	-.0877	-.0510	-.0804	.1210				
90.000		.2041	.2092	-.2632	-.2051	-.1717	-.1084	-.1909	-.1501	-.1427	.0955		-.0650	-.0047	
135.000		.2591	.3035	-.2102	-.1539	-.1042	-.0055	-.0561	-.1423	-.1321	.0175				
180.000	1.5174	.3140	.4575	-.1698	-.1112	-.0978	.1491	-.0122	-.0637	-.1199	.1468	.7124	.0000	-.0445	-.3291
225.000		.2784	.6194	-.1370	-.0924	-.1644	.2031	-.0128	-.0323	-.1098	.3390				
270.000		.0000	.7747	-.0134	-.0781	-.3207	-.1995	-.1085	-.0695	-.0576	.3339	.8404	.3951	.5262	-.3355
315.000		.0868	.3051	-.2800	-.3344	-.3183	-.1934	-.1275	-.0381	-.0307	.0000				

X/LS	.8102	.8881	.9120	.9130	.9344	.9585
PHI						
.000	.0088	-.2020	.1523	-.1505	.1691	.0000
45.000	.0319	-.1506			.0933	.0722
90.000	-.0878	-.1137	.0840	.0428	.1558	.1939
135.000	.1318	-.2237			.1901	.3381
180.000	.1175	-.2351	.0658	.1038	.2888	.2887
225.000	-.1070	-.2205			.0534	.0000
270.000	-.1818	-.1508	-.0384	-.1184	-.0865	-.0669
315.000	-.1312	-.1994			-.0221	.0101

ARC97-019 IA81 LVAP(ALUM. SEALED) SRM BOOSTER (RETS35)

ALPHAL(2) = -4.586 BETAL (4) = 4.757

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0850	.1118	.1397	.1956	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4807	.0586	.2132	-.2715	-.2478	-.2319	-.0947	-.0143	.0000	.0267	.2845	.4591	-.0457	.0098	-.2104
45.000		.0919	.0884	-.2823	-.2293	-.1381	-.0943	.0058	-.0391	.0029	.2600				
90.000		.1158	.1270	-.2988	-.2453	-.1786	-.1001	-.1425	-.1049	-.0431	.1998		-.1584	-.1428	
135.000		.1601	.2370	-.2480	-.2070	-.1852	-.0704	-.1301	-.1714	-.0840	.2038				
180.000	1.4807	.2488	.4142	-.1859	-.1438	-.0813	.0240	-.0640	-.1152	-.1058	.1683	.6683	.0000	-.1069	-.3250
225.000		.2421	.6129	-.1422	-.1145	-.0302	.0920	-.0375	-.0660	-.0174	.2992				
270.000		.0000	.8196	.0384	-.1170	-.2679	-.2315	-.0844	-.0512	.0119	.3318	.6826	.4024	.5435	-.3552
315.000		.0527	.3178	-.2820	-.3481	-.3337	-.1575	-.0701	-.0367	.0183	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0430	-.1991	.0505	-.1397	.2980	.0000
45.000	.1799	-.2205			.1397	.1105
90.000	-.0088	-.0759	.0958	.0291	.0946	.0505
135.000	.0374	-.1305			.2028	.2046
180.000	.0709	-.2161	.1982	.0817	.2563	.1961
225.000	-.1554	-.1417			.0355	.0000
270.000	-.1701	-.1305	-.0197	-.0905	-.0618	-.0841
315.000	-.1343	-.1870			.0677	.1246

ALPHAL(2) = -4.987 BETAL (5) = 6.818

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0850	.1118	.1397	.1956	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4276	.0238	.1855	-.2792	-.2561	-.2433	-.0869	.0192	.0000	.0098	.2752	.4522	-.0319	.0980	-.2399
45.000		.0463	.0701	-.2949	-.2366	-.1386	-.0557	.1073	.0078	-.0186	.2685				
90.000		.0875	.1079	-.3113	-.2583	-.1874	-.1074	.0074	-.0557	-.0832	.1775		-.1426	-.1309	
135.000		.1184	.1976	-.2606	-.2299	-.1820	-.1243	-.1562	-.1099	-.0685	.1838				
180.000	1.4276	.2234	.3984	-.1916	-.1574	.0489	-.0353	-.0781	-.0833	.0222	.1613	.6713	.0000	-.1703	-.3467
225.000		.2234	.6072	-.1421	-.1258	.1255	.0349	-.0818	-.0408	.1392	.3237				
270.000		.0000	.8338	.0852	-.1437	-.2992	-.2606	.0004	.0081	.0730	.3311	.6742	.3671	.4029	-.3799
315.000		.0290	.3073	-.2829	-.3557	-.3429	-.1628	-.0580	.0244	.0141	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0527	-.2016	.0700	-.0886	.2683	.0000
45.000	.1638	-.2281			.2667	.2204
90.000	-.0085	-.1227	.1008	.0170	.0872	.0473
135.000	-.0080	-.1351			.1505	.1460
180.000	.0084	-.1645	.1618	-.0091	.1887	.1249

ARC97-019 IA81 LVAP(ALUM. SEALED) SRM BOOSTER (RET835)

ALPHAL(2) = -4.027 BETAL (5) = 6.818

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
225.000	-.1862	-.1422			-.0372	.0000
270.000	-.1850	-.1412	-.1058	-.1038	-.0884	-.0917
315.000	-.1444	-.1078			.0528	.1169

ALPHAL(3) = -2.530 BETAL (1) = -5.788

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7200	.7290	.7360	.7370
PHI															
.000	1.5000	.2484	.3237	-.2172	-.1773	-.1535	-.1583	-.0975	.0000	-.0308	.1501	.2814	-.0468	.1170	-.1620
45.000		.3138	.2724	-.2263	-.1545	-.0739	-.1101	-.0808	-.0887	-.0737	.1768				
90.000		.3580	.3372	-.2072	-.1359	-.0780	-.0522	-.0712	-.1182	-.1084	.0999		.0348	.0827	
135.000		.3747	.3843	-.1754	-.1150	-.0437	.0378	.0845	-.0887	-.0128	.2530				
180.000	1.5000	.3482	.4577	-.1698	-.1211	-.1098	.2439	.1051	-.0527	-.0034	.4058	.5447	.0000	.3837	-.2132
225.000		.2786	.5699	-.1638	-.1172	-.2972	.2047	.0639	.0293	-.0167	.5267				
270.000		.0000	.7821	-.0311	-.2518	-.2858	-.2304	-.2429	-.0514	-.0420	.3746	1.0873	.7482	.6681	-.4395
315.000		.1961	.4173	-.2303	-.2274	-.2770	-.1484	-.1307	.0021	-.0157	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
.000	.0112	-.1740	-.0558	-.1523	.0367	.0000
45.000	.0546	-.2097			.2139	.2830
90.000	-.1351	-.1959	.0036	-.0468	.2293	.3118
135.000	.2891	-.2055			.2048	.3058
180.000	.3020	-.2264	.1035	.1368	.2785	.3841
225.000	-.0270	-.1463			.2481	.0000
270.000	-.1691	-.1118	-.0180	-.0771	-.0368	-.0453
315.000	-.1409	-.1508			-.0054	-.0348

ALPHAL(3) = -2.477 BETAL (21) = -1.823

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7200	.7290	.7360	.7370
PHI															
.000	1.5300	.1788	.3006	-.2416	-.1943	-.1894	-.1817	-.0318	.0000	-.0415	.2232	.2817	.0178	.1442	-.1729
45.000		.2214	.2122	-.2454	-.1857	-.0990	-.1170	-.0424	-.0219	-.0875	.1660				
90.000		.2587	.2558	-.2487	-.1857	-.1130	-.0775	-.0973	-.0918	-.0946	.1087		-.0089	.0460	
135.000		.2781	.3105	-.2042	-.1580	-.0942	.0741	.0004	-.0775	-.0811	.2082				
180.000	1.5300	.2752	.4195	-.1885	-.1398	-.1381	.1888	.0173	-.0450	-.0811	.3483	.8290	.0000	.1881	-.2795
225.000		.2342	.5548	-.1650	-.1334	-.2545	.1898	-.0152	-.0113	-.0842	.4312				

ARC97-019 IASI LVAP(ALLHL SEALED) SRM BOOSTER (RETS35)

ALPHAL(3) = -2.477 BETAL (2) = -1.823

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.6001	-.0052	-.2558	-.2925	-.2328	-.1885	-.0638	-.0569	.3674	.9285	.5854	.8261	-.4236
315.000		.1428	.4008	-.2411	-.2584	-.2779	-.1601	-.1298	-.0305	-.0212	.0000				

X/LS	.8102	.8661	.9129	.9130	.9344	.9565
PHI						
.000	-.0175	-.2052	-.0106	-.0865	.0840	.0000
45.000	.0959	-.1870			.2022	.2657
90.000	-.0772	-.1806	.0213	-.0406	.1901	.2431
135.000	.2492	-.2185			.1724	.2575
180.000	.2285	-.2201	.0783	.1191	.2799	.3778
225.000	-.0727	-.1542			.1524	.0000
270.000	-.1593	-.1178	-.0240	-.0833	-.0572	-.0516
315.000	-.1322	-.1583			-.0501	-.0288

ALPHAL(3) = -2.407 BETAL (3) = 2.635

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	-.2650	-.2818	-.2235	-.1341	-.0707	-.0899	-.0425	-.0721	.1791	.5887	-.0974	.0941	-.1520	-.0883	-.1325
45.000		-.2370	-.1378	-.1891	-.0014	-.0795	-.0998	-.1094	.2042	.7388	.4864				
90.000		-.1985	-.1528	-.1511	.0872	-.0895	-.0877	-.1817	.2020	-.0146	-.1413		-.1882	-.1507	
135.000		-.1864	-.1380	-.1711	.1490	-.0582	-.0268	-.0538	.3150	-.0130	.0000				
180.000	-.2650	.0377	-.2150	-.3082	-.2339	-.1158	-.0487	-.0301	.2881	.0000	-.2782	.0724	-.2278	-.1501	.0000
225.000		-.2392	-.2592	-.2991	-.1205	-.1189	-.0535	-.0328	.0000	.2887	-.3072				
270.000		-.2128	-.2147	-.0984	-.0040	.0000	-.0257	.2268	.3558	.0372	.0769	-.1357	-.1488	-.1953	.0000
315.000		-.2091	-.1191	-.1130	.0205	-.0052	-.0415	.2522	.0000	.0084	.1879				

X/LS	.8102	.8661	.9120	.9130	9344	.9565
PHI						
.000	.0000	.1441	.2081	-.0347	-.1983	.0000
45.000	.0000	-.0012			-.1188	.2919
90.000	.0000	-.1518	.1883	.0805	.0880	.0730
135.000	.0000	.0295			.1269	.1483
180.000	.0000	.1175	.2414	-.1789	.1576	.1124
225.000	.0000	-.0919			-.0358	.0000
270.000	.0703	.2502	.0000	-.1893	-.0765	-.0857
315.000	.1822	.1672			0418	.0812

ARC97-010 IA81 LVAP(ALLML SEALED) SRM BOOSTER (RET838)

ALPHAL(3) = -8.358 BETAL (4) = 8.744

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0338	.0950	.1118	.1397	.1956	.2794	.3832	.4790	.5867	.6985	.7280	.7890	.7380	.7370
PHI															
.000	1.4275	.0849	.2305	-.2598	-.2345	-.2279	-.0813	.0325	.0000	.0244	.2585	.3888	.0189	-.0172	-.2088
45.000		.0728	.1086	-.2790	-.2342	-.1347	-.0438	.1124	.0306	.0008	.3038				
90.000		.0879	.0948	-.3051	-.2402	-.1389	-.0550	.0681	-.0103	-.0449	.2676		-.1578	-.1815	
135.000		.1079	.1891	-.2648	-.2260	-.1731	-.0515	-.0994	-.0375	-.0481	.2542				
180.000	1.4275	.1610	.3492	-.2070	-.1788	-.1518	-.0024	-.0959	-.0388	.0672	.2087	.6889	.0000	-.1332	-.3083
225.000		.1788	.5628	-.1845	-.1690	-.0460	.0417	-.1127	-.0059	.2180	.3567				
270.000		.0000	.8689	.1080	-.2535	-.3179	-.2547	-.0807	.0627	.1099	.3415	.7512	.4838	.6859	-.3313
315.000		.0841	.3833	-.2412	-.2840	-.2898	-.0877	-.0248	.0400	.0445	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
.000	.0320	-.1928	.0848	-.0517	.2382	.0000
45.000	.1535	-.2070			.2978	.2919
90.000	.0189	-.1204	0997	.0008	.0880	.0730
135.000	.0302	-.1578			.1269	.1483
180.000	.0235	-.1778	.1280	.0181	.1578	.1124
225.000	-.1816	-.1400			-.0356	.0000
270.000	-.1686	-.1350	-.0772	-.0987	-.0765	-.0857
315.000	-.1178	-.1889			.0416	.0812

ALPHAL(4) = -.253 BETAL (1) = -5.797

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1950	.2794	.3832	.4790	.5867	.6985	.7230	.7890	.7380	.7370
PHI															
.000	1.5898	.2957	.3843	-.1985	-.1467	-.1404	-.1158	-.0471	.0000	-.0191	.2423	.3469	.0834	.1840	-.1090
48.000		.3483	.3339	-.2017	-.1328	-.0487	-.0845	-.0442	.0154	-.0239	.2442				
90.000		.3843	.3520	-.2128	-.1274	-.0578	-.0347	.0151	-.0038	-.0086	.1890		.0818	.1887	
135.000		.3472	.3336	-.1985	-.1293	-.0528	-.0804	.0862	.0333	.0192	.3854				
180.000	1.5898	.2985	.3986	-.1902	-.1423	-.1480	.1412	.1004	-.0329	-.0044	.4806	.6298	.0000	.3248	-.1611
225.000		.2419	.5004	-.1921	-.1772	-.1851	.0154	.0684	-.0003	.0023	.5993				
270.000		.0000	.7965	-.0138	-.3283	-.2359	-.1785	-.2400	-.1192	-.0338	.3845	1.1031	.7709	.6681	-.4981
315.000		.2378	.5007	-.1965	-.1537	-.2086	-.0959	-.0928	-.0108	.0010	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
.000	.0208	-.2044	-.0577	-.1809	.1007	.0000
45.000	.1194	-.1844			.3081	.3729
90.000	-.0248	-.1338	.1004	-.0458	.2604	.3094
135.000	.3399	-.1952			.2025	.2781
180.000	.3269	-.2310	.1324	.0908	.2133	.2958

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETSJB)

ALPHAL(4) = -.253 BETAL (1) = -5.797

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.9102	.8861	.9120	.9130	.9344	.9565
PHI						
225.000	-.0083	-.1761			.3201	.0000
270.000	-.1875	-.1098	.0378	-.0875	-.0212	-.0242
315.000	-.1244	-.1329			-.0291	-.0878

ALPHAL(4) = -.237 BETAL (2) = -3.780

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5705	.2575	.3728	-.2090	-.1569	-.1582	-.1287	-.0294	.0000	-.0259	.2565	.3380	.0335	.2415	-.1183
45.000		.2842	.2987	-.2093	-.1499	-.0674	-.0909	-.0192	.0160	-.0364	.2393				
90.000		.3088	.3040	-.2272	-.1480	-.0770	-.0601	-.0056	-.0164	-.0249	.2003		.0591	.0948	
135.000		.2955	.3002	-.2080	-.1467	-.0751	-.0103	.0591	-.0019	-.0073	.3520				
180.000	1.5705	.2594	.3891	-.1994	-.1591	-.1537	.1086	.0756	-.0521	.0038	.4421	.8002	.0000	.2750	-.1909
225.000		.2145	.4925	-.1994	-.1870	-.1924	.0515	.0337	-.0208	-.0288	.5528				
270.000		.0000	.8068	-.0011	-.3336	-.2473	-.2118	-.2451	-.1093	-.0374	.3729	1.0181	.7087	.6609	-.4984
315.000		.2095	.4925	-.2013	-.1740	-.2165	-.1014	-.1020	-.0358	-.0099	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0099	-.2015	-.0307	-.1208	.1061	.0000
45.000	.1197	-.1790			.2833	.3499
90.000	-.0154	-.1327	.0864	-.0485	.2394	.2776
135.000	.3137	-.1917			.1863	.2601
180.000	.3061	-.2311	.1187	.0883	.1986	.2941
225.000	.0007	-.1668			.3047	.0000
270.000	-.1504	-.1114	.0288	-.0681	-.0332	-.0241
315.000	-.1273	-.1278			-.0431	-.0212

ALPHAL(4) = -.193 BETAL (3) = .473

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5208	.2038	.3489	-.2184	-.1784	-.1841	-.0868	-.0183	.0000	-.0147	.2304	.3878	-.0179	.1578	-.1514
45.000		.2125	.2188	-.2435	-.1743	-.0988	-.1058	.0195	.0151	-.0234	.2446				
90.000		.2153	.2074	-.2840	-.1752	-.1020	-.0783	-.0248	.0138	-.0288	.1980		-.0125	.0140	
135.000		.2099	.2213	-.2342	-.1812	-.1038	.0458	-.0182	-.0289	-.0393	.3097				
180.000	1.5208	.1954	.3414	-.2145	-.1785	-.1841	.0404	-.0204	-.0738	-.0852	.3300	.8111	.0000	-.0067	-.2638
225.000		.1701	.4741	-.2058	-.1974	-.2089	.0521	-.0128	-.0422	-.0483	.3988				

ARC97-019 IASI LVAP(ALLHL SEALED) SRM BOOSTER (RETS35)

ALPHAL(4) = -.193 BETAL (3) = .473

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.8254	.0309	-.3340	-.2682	-.2149	-.2212	-.1285	-.0553	.2548	.7947	.3203	.3873	-.3209
315.000		.1726	.4854	-.2037	-.1831	-.2618	-.0977	-.0540	-.0591	-.0304	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	-.0010	-.1701	.0182	-.0655	.1104	.0000
45.000	.1012	-.1334			.2751	.2887
90.000	-.0153	-.1451	.1035	.0416	.3162	.3357
135.000	.2732	-.2079			.2019	.2610
180.000	.1985	-.2047	.1170	.1009	.2057	.2464
225.000	-.1181	-.2139			.1581	.0000
270.000	-.1673	-.1397	.0239	-.0801	-.0440	-.0353
315.000	-.1457	-.1790			-.0382	-.0174

ALPHAL(4) = -.203 BETAL (4) = 4.655

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4611	.1527	.3003	-.2362	-.2012	-.2155	-.0698	-.0293	.0000	.0468	.2832	.4143	.0731	.0661	-.1790
45.000		.1344	.1812	-.2611	-.2186	-.1441	-.0872	.0281	-.0061	.0345	.2943				
90.000		.1303	.1322	-.3000	-.2244	-.1286	-.0274	.0132	-.0096	.0179	.2994		-.1114	-.1082	
135.000		.1313	.1600	-.2586	-.2117	-.1356	.0068	-.0607	-.0632	-.0028	.3209				
180.000	1.4611	.1439	.3076	-.2238	-.1977	-.1869	.0293	-.0952	-.0507	.1276	.3041	.6892	.0000	-.1427	-.2624
225.000		.1404	.4548	-.2892	-.1939	-.2085	.0902	-.0901	-.0281	.2341	.3304				
270.000		.0000	.8118	.0347	-.3340	-.2878	-.1877	-.1436	-.0590	.1138	.2870	.6938	.3066	.3515	-.3284
315.000		.1442	.4718	-.2008	-.1796	-.2368	-.0663	-.0518	-.0284	.0434	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0823	-.1184	.0864	.0189	.1631	.0000
45.000	.1306	-.1588			.2297	.2484
90.000	.0893	-.1047	.1202	.0191	.2388	.2120
135.000	.1130	-.1289			.1622	.1381
180.000	.0981	-.1384	.1407	.1060	.2278	.2006
225.000	-.1166	-.1835			.1606	.0000
270.000	-.1524	-.1206	.0486	-.0680	-.0252	-.0132
315.000	-.1078	-.1746			.0531	.0731

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS35)

ALPHAL(4) = -.197 BETAL (5) = 6.707

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7200	.7290	.7360	.7370
PHI															
.000	1.4280	.1195	.2802	-.2398	-.2106	-.2211	-.0618	.0058	.0000	.0312	.2874	.4192	.0848	.0855	-.1853
45.000		.0890	.1586	-.2827	-.2312	-.1514	-.0448	.0952	.0298	.0072	.2712				
90.000		.0894	.0986	-.3088	-.2293	-.1187	-.0195	.1089	.0229	-.0228	.2947		-.1448	-.1684	
135.000		.0932	.1318	-.2730	-.2230	-.1533	-.0182	.0180	-.0094	-.0154	.3089				
180.000	1.4280	.1185	.2970	-.2287	-.2027	-.1821	-.0065	-.1001	-.0068	.1687	.2823	.6923	.0000	-.1144	-.2821
225.000		.1315	.4574	-.1989	-.1929	-.1830	.0793	-.1199	.0242	.2563	.3819				
270.000		.0000	.8019	.0302	-.3310	-.2810	-.1638	-.1132	.0916	.1418	.3410	.8068	.5074	.6522	-.3852
315.000		.1280	.4602	-.2103	-.1878	-.2254	-.0493	-.0464	.0488	.0584	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0660	-.1489	.1378	-.0098	.2205	.0000
45.000	.1170	-.1771			.2161	.1940
90.000	.0702	-.1252	.1422	-.0041	.1444	.1220
135.000	.0850	-.1730			.1144	.1118
180.000	.0663	-.1930	.1267	.0273	.1533	.1158
225.000	-.1521	-.1594			.0048	.0000
270.000	-.1654	-.1267	-.0238	-.0303	-.0659	-.0586
315.000	-.1147	-.1717			.0533	.1240

ALPHAL(5) = 1.957 BETAL (1) = -5.773

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7200	.7290	.7360	.7370
PHI															
.000	1.5860	.3421	.4443	-.1771	-.1249	-.1189	-.0743	.0034	.0000	.0007	.2879	.3854	.1059	.0733	-.0954
45.000		.3722	.3869	-.1929	-.1155	-.0331	-.0608	-.0152	.0483	.0147	.2789				
90.000		.3609	.3478	-.2053	-.1356	-.0711	-.0507	.0200	.0499	.0201	.3019		.1150	.1513	
135.000		.3202	.2829	-.2184	-.1520	-.0680	-.0729	.0687	.0514	.0194	.4253				
180.000	.5868	.2578	.3377	-.2101	-.1683	-.1620	.0543	.0392	-.0237	-.0075	.5188	.6856	.0000	.3468	-.1040
225.000		.2108	.4245	-.2255	-.2318	-.1812	-.0733	.0282	.0026	.0179	.6449				
270.000		.0000	.7855	-.0287	-.3667	-.2080	-.0948	-.1130	-.1121	-.0712	.2056	1.2001	.8144	.8430	-.4731
315.000		.2780	.5728	-.1656	-.0740	-.1829	-.0535	-.0020	-.0205	-.0129	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0108	-.2088	.0245	-.0723	.1559	.0000
45.000	.2149	-.1356			.3393	.4018
90.000	.0148	-.0991	.1425	-.0525	.3027	.3286
135.000	.3823	-.1889			.1829	.2835
180.000	.3443	-.2192	.1681	.0427	.1616	.2113

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS35)

ALPHAL(5) = 1.957 BETAL (1) = -5.773

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
225.000	-.0136	-.2076			.2855	.0000
270.000	-.1497	-.1085	.0600	-.0412	.0113	.0144
315.000	-.1324	-.1585			-.0107	.0429

ALPHAL(5) = 1.955 BETAL (2) = -1.611

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5353	.2742	.4132	-.1941	-.1378	-.1494	-.0733	.0022	.0000	-.0030	.2342	.4239	.0374	.1200	-.1341
45.000		.2795	.3020	-.2099	-.1500	-.0816	-.0887	-.0053	.0250	-.0039	.2662				
90.000		.2592	.2539	-.2485	-.1820	-.1108	-.0837	.0085	.0204	-.0178	.2847		.0305	.0504	
135.000		.2277	.2108	-.2485	-.1807	-.1017	-.0238	.0229	.0188	-.0191	.3499				
180.000	1.5353	.1877	.3248	-.2356	-.1952	-.1544	.0229	.0113	-.0225	-.0083	.4343	.6940	.0000	.1650	-.1798
225.000		.1568	.4113	-.2353	-.2472	-.2159	-.0567	-.0044	-.0516	-.0090	.5052				
270.000		.0000	.7998	-.0020	-.3551	-.2394	-.0799	-.0602	-.0958	-.0516	.2511	.9251	.5661	.5074	-.4642
315.000		.2318	.5600	-.1691	-.0876	-.1664	-.0696	-.0038	-.0320	-.0159	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0172	-.1636	.0329	-.0583	.1614	.0000
45.000	.1347	-.1196			.2479	.2576
90.000	-.0065	-.1181	.1312	-.0317	.2707	.2757
135.000	.3171	-.1761			.1608	.2095
180.000	.2830	-.2131	.1402	.0580	.1758	.2494
225.000	-.0211	-.1783			.3162	.0000
270.000	-.1501	-.1250	.0318	-.0818	-.0195	-.0075
315.000	-.1353	-.1548			-.0195	.0093

ALPHAL(5) = 1.945 BETAL (3) = 2.648

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4828	.2248	.3884	-.1977	-.1522	-.1787	-.0913	-.0268	.0000	-.0078	.2317	.4008	.0868	.0805	-.1458
45.000		.1890	.2481	-.2368	-.1880	-.1350	-.1085	.0211	.0020	-.0202	.2481				
90.000		.1688	.1734	-.2797	-.2202	-.1488	-.0772	.0155	.0183	-.0312	.2484		-.0271	-.0 97	
135.000		.1422	.1612	-.2694	-.2111	-.1187	.0312	-.0205	-.0104	-.0341	.3188				
180.000	1.4828	.1125	.2745	-.2421	-.2114	-.1691	.0027	-.0609	-.0787	-.0369	.3213	.6579	.0000	-.0757	-.1869
225.000		.1050	.3869	-.2380	-.2506	-.2380	-.0177	-.0271	-.0221	.0240	.3958				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS35)

ALPHAL(5) = 1.945 BETAL (3) = 2.648

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5887	.6985	.7290	.7290	.7360	.7370
PHI															
270.000		.0000	.8130	.0211	-.3214	-.2405	-.0503	-.0387	-.0378	.0372	.2229	.5998	.2528	.2353	-.2749
315.000		.2099	.5848	-.1635	-.0838	-.1323	-.0524	-.0224	-.0319	.0117	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
.000	.0508	-.1329	.1633	.0324	.2438	.0000
45.000	.1316	-.0890			.2572	.2572
90.000	.0682	-.0878	.1843	.0130	.2940	.3030
135.000	.2908	-.1687			.2394	.2741
180.000	.1191	-.1151	.1845	.1010	.1667	.1348
225.000	-.0853	-.2261			.2232	.0000
270.000	-.1401	-.1069	.0847	-.0375	.0142	.0324
315.000	-.1132	-.1615			.0718	.1154

ALPHAL(5) = 1.915 BETAL (4) = 8.744

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5887	.6985	.7290	.7290	.7360	.7370
PHI															
.000	1.4231	.1737	.3293	-.2142	-.1833	-.2088	-.0860	-.0535	.0000	.0453	.2881	.5734	.1084	.1172	-.2473
45.000		.1044	.1777	-.2753	-.2283	-.1905	-.0778	.0002	.0303	.0073	.2098				
90.000		.0801	.0825	-.3050	-.2494	-.1388	-.0178	.1028	.0378	-.0108	.0830		-.1200	-.1288	
135.000		.0881	.1026	-.2884	-.2327	-.1388	.0073	.0000	.0087	.0080	.3378				
180.000	1.4231	.0878	.0495	-.2825	-.2277	-.1887	.0004	-.0783	.0083	.1688	.3237	.6418	.0000	-.1888	-.2837
225.000		.0781	.3888	-.2403	-.2782	-.2408	.0848	-.0000	.0238	.1988	.3882				
270.000		.0000	.8884	.1023	-.2912	-.2878	-.0888	-.0000	.0418	.1321	.3138	.8458	.3483	.3784	-.3241
315.000		.1788	.5880	-.1823	-.1019	-.1285	-.0128	-.0058	.0870	.0708	.0000				

X/LS	.8182	.8681	.9120	.9130	.9344	.9585
PHI						
.000	.1058	-.1325	.2087	-.0020	.3458	.0000
45.000	.1828	-.1505			.2438	.2080
90.000	.0700	-.0982	.1788	-.0042	.1401	.1380
135.000	.1111	-.1682			.1182	.0877
180.000	.0733	-.1653	.1238	.0258	.1442	.1117
225.000	-.1287	-.1823			.1245	.0000
270.000	-.1754	-.1174	.0578	-.0588	-.0185	-.0158
315.000	-.1182	-.1640			.1241	.1088

ARC87-018 IAS1 LVAP(ALLHL SEALED) SRM BOOSTER (RET836)

ALPHAL(6) = 4.150 BETAL (1) = -5.872

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5772	.3921	.5085	-.1802	-.0989	-.0786	-.0697	.0269	.0000	.0330	.2290	.3557	.0002	-.0256	-.1284
45.000		.3943	.4289	-.1783	-.0982	-.0135	-.0473	-.0132	.0623	.0387	.3153				
90.000		.3452	.3433	-.2079	-.1402	-.1159	-.0990	-.0687	.0304	.0009	.3244		.0804	.1077	
135.000		.2826	.2474	-.2349	-.1736	-.1073	-.0773	.0345	.0486	.0158	.3728				
180.000	1.5772	.2172	.2086	-.2093	-.1957	-.1288	-.0157	.0206	.0127	.0263	.4470	.8109	.0000	.8887	-.0227
225.000		.1706	.3452	-.2548	-.2899	-.1847	-.0921	.0133	.0305	.0632	.5465				
270.000		.0000	.7473	-.0499	-.3989	-.2105	-.0238	.0481	.0200	.0397	.0687	.8100	.4880	.3714	-.3942
315.000		.3125	.8290	-.1380	-.0202	-.2111	-.0428	.0468	.0162	.0381	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9585
PHI						
.000	.0298	-.2089	.0521	-.1255	.2842	.0000
45.000	.2840	-.1060			.2815	.2672
90.000	.0783	-.0474	.1637	-.0013	.3065	.3034
135.000	.3631	-.1650			.1801	.2303
180.000	.3161	-.2054	.2033	.0199	.1514	.1763
225.000	-.0939	-.2529			.0853	.0000
270.000	-.1299	-.0794	.1187	-.0095	.0464	.0365
315.000	-.1157	-.1290			.0341	.0848

ALPHAL(6) = 4.150 BETAL (2) = -3.832

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5518	.3956	.4858	-.1781	-.1021	-.0370	-.0729	.0195	.0000	.0170	.2256	.3806	.0263	.0053	-.1305
45.000		.3392	.3916	-.1639	-.1173	-.0473	-.0751	-.0203	.0354	.0122	.2927				
90.000		.2913	.3039	-.2273	-.1590	-.1416	-.1216	-.0398	.0025	-.0155	.2987		.0445	.0588	
135.000		.2415	.2153	-.2559	-.1907	-.1112	-.0780	.0240	.0342	.0004	.3393				
180.000	1.5518	.1819	.2488	-.2334	-.2024	-.1239	-.0149	.0097	.0043	.0173	.4130	.5620	.0000	.2182	-.0381
225.000		.1444	.3260	-.2638	-.3089	-.1790	-.1077	.0031	.0048	.0323	.4912				
270.000		.0000	.7529	-.0397	-.4088	-.2138	-.0491	.0598	.0138	.0256	.1348	.7158	.4398	.3125	-.3481
315.000		.2942	.8214	-.1413	-.0305	-.1957	-.0848	.0338	.0090	.0188	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9585
PHI						
.000	.0429	-.1483	.0247	-.0892	.2766	.0000
45.000	.1829	-.1337			.3493	.3115
90.000	.0814	-.0406	.1450	.0063	.2640	.2400
135.000	.3387	-.1609			.1859	.2288
180.000	.2713	-.1936	.1982	.0443	.1629	.1883

ARC87-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS35)

ALPHAL(6) = 4.150 BETAL (2) = -3.632

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9585
PHI						
225.000	-.0891	-.2268			.1957	.0000
270.000	-.1103	-.1008	.0985	-.0330	.0354	.0212
315.000	-.1040	-.1160			.0142	.0943

ALPHAL(8) = 4.137 BETAL (3) = .502

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5073	.3188	.4478	-.1758	-.1183	-.1344	-.0978	.0003	.0000	-.0012	.2118	.3918	.0479	.0211	-.1843
45.000		.2629	.2988	-.2177	-.1594	-.1081	-.1082	-.0206	-.0012	-.0098	.2927				
90.000		.2070	.2042	-.2658	-.2041	-.1748	-.1284	-.0085	.0073	-.0357	.2829		-.0808	-.0939	
135.000		.1509	.1383	-.2770	-.2155	-.1281	-.0376	.0000	.0227	-.0079	.3127				
180.000	1.5073	.1120	.2399	-.2526	-.2298	-.1107	-.0338	-.0041	-.0239	.0042	.3748	.5821	.0000	-.0099	-.1460
225.000		.0914	.3147	-.2738	-.3251	-.1857	-.0905	-.0082	-.0156	.0703	.3929				
270.000		.0000	.7699	-.0216	-.4084	-.1981	-.0338	.0285	-.0041	.0607	.1577	.5613	.2537	.1686	-.2712
315.000		.2705	.6231	-.1401	-.0381	-.1345	-.0433	.0298	-.0114	.0265	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9585
PHI						
.000	.0540	-.1210	.1073	.0389	.2389	.0000
45.000	.1262	-.1184			.3840	.3818
90.000	.0572	-.0524	.1543	.0718	.2318	.1840
135.000	.2842	-.1702			.2531	.2908
180.000	.1514	-.1548	.1757	.0921	.1735	.1692
225.000	-.0635	-.2699			.2481	.0000
270.000	-.1484	-.1168	.0502	-.0335	.0242	.0242
315.000	-.1321	-.1495			.0845	.1019

ALPHAL(8) = 4.075 BETAL (4) = 4.781

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1966	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4456	.2602	.4134	-.1854	-.1441	-.1872	-.0959	-.0528	.0000	.0000	.2850	.5584	.0725	.0581	-.2385
45.000		.1888	.2381	-.2542	-.2000	-.1783	-.1228	-.0294	-.0321	.0637	.2762				
90.000		.1098	.1237	-.2971	-.2466	-.2039	-.0848	.0207	-.0062	.0357	.2857		-.1263	-.1538	
135.000		.0790	.0879	-.2922	-.2321	-.1284	-.0005	.0009	-.0084	.0949	.3303				
180.000	1.4456	.0456	.2094	-.2700	-.2485	-.1884	-.0185	-.0254	-.0143	.1886	.3420	.5417	.0000	-.1235	-.1678
225.000		.0439	.2970	-.2839	-.3415	-.2352	-.0485	-.0077	-.0013	.2107	.3397				

ARC97-019 IA81 LVAP(ALUM. SEALED) SRM BOOSTER (RETS35)

ALPHAL(8) = 4.075 BETAL (4) = 0.781

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.7941	.0254	-.3288	-.2302	-.0098	-.0030	-.0084	.1387	.2243	.5025	.2150	.1471	-.2764
315.000		.2491	.6238	-.1400	-.0486	-.1148	.0084	-.0314	-.0131	.0598	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1256	-.0980	.2483	.0623	.3598	.0000
45.000	.2052	-.1248			.4045	.3453
90.000	.0783	-.0294	.1958	.0440	.1495	.1218
135.000	.1868	-.1296			.2072	.1909
180.000	.0711	-.0874	.1843	.0887	.1482	.0984
225.000	-.0858	-.2250			.2270	.0000
270.000	-.1420	-.0972	.1397	-.0092	.0595	.0461
315.000	-.1001	-.1626			.1977	.2397

ALPHAL(8) = 4.071 BETAL (5) = 0.799

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4126	.2309	.3810	-.1981	-.1608	-.1779	-.1155	-.0709	.0000	.0470	.1787	.6459	.0656	.0423	-.2548
45.000		.1175	.1854	-.2732	-.2333	-.2032	-.1291	.0882	.0212	-.0066	.2541				
90.000		.0668	.0985	-.3131	-.2638	-.1899	-.0500	.1004	.0276	-.0127	.2411		-.1285	-.1550	
135.000		.0422	.0824	-.2939	-.2379	-.1234	.0083	.0798	.0298	.0604	.3302				
180.000	1.4128	.0118	.1949	-.2726	-.2527	-.1909	-.0104	-.0188	.0314	.1578	.3372	.5669	.0000	-.1218	-.2076
225.000		.0183	.3051	-.2834	-.3148	-.2441	-.0234	-.0198	.0247	.2015	.3502				
270.000		.0000	.8180	.0582	-.2920	-.2478	.0038	-.0386	.0394	.1593	.2817	.5350	.2681	.2248	-.3030
315.000		.2350	.6161	-.1470	-.0505	-.0978	.0398	-.0231	.1426	.0959	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1378	-.1331	.2281	.0107	.3918	.0000
45.000	.1782	-.1981			.2281	.2240
90.000	.0888	-.0824	.2139	-.0035	.1045	.0918
135.000	.1143	-.1474			.1218	.0882
180.000	.0731	-.1383	.1307	.0139	.1244	.0831
225.000	-.1046	-.2031			.1783	.0000
270.000	-.1458	-.1128	.0978	-.0377	.0174	.0173
315.000	-.1083	-.1740			.1958	.1834

ARC97-819 IAB1 LVAP(ALUM. SEALED) SRM BOOSTER (RETS35)

ALPHAL(7) = 8.337 BETAL (1) = -3.578

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5407	.4121	.5413	-.1487	-.0713	-.0707	-.0517	.0303	.0000	.0234	.3128	.4850	.1545	.1067	-.1729
45.000		.3603	.4286	-.1782	-.1074	-.0450	-.0784	-.0242	.0083	.0098	.3580				
90.000		.2718	.2984	-.2280	-.1727	-.1803	-.1848	-.1386	-.0283	-.0293	.3271		-.0106	-.0118	
135.000		.2034	.1674	-.2697	-.2060	-.1474	-.1275	.0078	.0215	.0187	.2954				
180.000	1.5407	.1430	.2239	-.2384	-.2262	-.1531	-.0574	.0259	.0243	.0781	.3942	.5239	.0000	.1156	-.0329
225.000		.0987	.2500	-.3020	-.3748	-.2494	-.0799	.0142	.0269	.1298	.4150				
270.000		.0000	.7223	-.0584	-.4097	-.2741	-.0502	.0398	.0508	.1121	.2529	.5238	.2775	.2139	-.3244
315.000		.3341	.6711	-.1198	.0025	-.0998	-.0701	.0586	.0374	.0339	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
.000	.0703	-.1210	.1399	-.0056	.2835	.0000
45.000	.1880	-.1226			.4841	.4679
90.000	.1361	-.0118	.2153	.0290	.1738	.1392
135.000	.2936	-.1585			.2043	.2109
180.000	.2117	-.1595	.2141	.0309	.1512	.1414
225.000	-.0448	-.2659			.1604	.0000
270.000	-.1337	-.1180	.1269	-.0382	.0477	.0235
315.000	-.0937	-.1099			.0607	.1210

ALPHAL(7) = 8.323 BETAL (2) = -1.478

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5083	.3837	.5197	-.1513	-.0807	-.0814	-.0677	.0286	.0000	-.0012	.2898	.4984	.2059	.1354	-.2029
45.000		.3152	.3958	-.1948	-.1292	-.0848	-.1019	-.0332	-.0130	-.0024	.3411				
90.000		.2212	.2488	-.2530	-.2005	-.2141	-.1887	-.1105	-.0335	-.0353	.3188		-.0433	-.0571	
135.000		.1878	.1303	-.2873	-.2239	-.1529	-.1010	-.0028	.0237	.0001	.2730				
180.000	1.5083	.1114	.2004	-.2629	-.2379	-.1598	-.0399	.0117	.0173	.0745	.3888	.5138	.0000	.0494	-.0800
225.000		.0729	.2424	-.3121	-.3900	-.2449	-.0826	.0082	.0193	.1536	.3915				
270.000		.0000	.7277	-.0509	-.4059	-.2626	-.0522	.0234	.0186	.1060	.2832	.5120	.2621	.2191	-.2952
315.000		.3225	.6696	-.1212	-.0093	-.0946	-.0758	.0491	.0126	.0173	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
.000	.0804	-.1174	.1823	.0234	.2888	.0000
45.000	.1887	-.0998			.3872	.3880
90.000	.1183	-.0188	.2258	.0875	.1387	.1098
135.000	.2884	-.1638			.2182	.2288
180.000	.1814	-.1538	.1888	.0803	.1609	.1507

ARC87-019 IA81 LVAP(ALLML SEALED) SRM BOOSTER (RETS36)

ALPHAL(7) = 8.323 BETAL (2) = -1.478

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
225.000	-.0819	-.2739			.1908	.0006
270.000	-.1319	-.0971	.0988	-.0182	.0494	.0374
315.000	-.0898	-.1335			.1079	.1530

ALPHAL(7) = 8.308 BETAL (3) = .638

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6986	.7280	.7290	.7360	.7370
PHI															
.000	1.4940	.3677	.5033	-.1581	-.0932	-.1042	-.0891	.0082	.0000	-.0114	.2883	.5077	.2441	.1893	-.2241
45.000		.2730	.3500	-.2104	-.1534	-.1119	-.1284	-.0581	-.0426	-.0220	.3233				
90.000		.1812	.1998	-.2878	-.2211	-.2378	-.1773	-.0606	-.0283	-.0290	.3027		-.0843	-.1082	
135.000		.1361	.0978	-.2997	-.2332	-.1518	-.0878	-.0014	.0218	.0033	.2555				
180.000	1.4940	.0777	.1642	-.2899	-.2506	-.1813	-.0353	.0008	.0097	.1081	.3424	.5108	.0000	-.0498	-.1114
225.000		.0487	.2336	-.3165	-.3819	-.2487	-.0755	-.0068	.0205	.1870	.3754				
270.000		.0000	.7278	-.0422	-.3913	-.2509	-.0302	-.0021	.0113	.1340	.2923	.5207	.2315	.2188	-.2834
315.000		.3189	.6852	-.1198	-.0095	-.1033	-.0498	.0394	-.0006	.0202	.0030				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.1194	-.3837	.2054	.0551	.3028	.0000
45.000	.1434	-.0827			.3766	.3587
90.000	.0924	-.0192	.2313	.0839	.1818	.1395
135.000	.2182	-.1470			.2767	.2818
180.000	.1109	-.1302	.1808	.0827	.1502	.1267
225.000	-.0845	-.2640			.1972	.0000
270.000	-.1479	-.0982	.0947	-.0044	.0598	.0432
315.000	-.0994	-.1502			.1660	.2045

ALPHAL(7) = 8.272 BETAL (4) = 2.749

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6986	.7280	.7290	.7360	.7370
PHI															
.000	1.4587	.3440	.4773	-.1840	-.1023	-.1172	-.0821	-.0311	.0000	-.0133	.2488	.5442	.1881	.1781	-.2015
45.000		.2243	.3007	-.2291	-.1822	-.1582	-.1438	-.1017	-.0856	-.0478	.2799				
90.000		.1352	.1871	-.2998	-.2520	-.2588	-.1838	-.0386	-.0841	-.0290	.2821		-.0748	-.1018	
135.000		.0997	.0710	-.3050	-.2422	-.1982	-.0802	-.0087	.0065	-.0015	.2738				
180.000	1.4587	.0454	.1753	-.2885	-.2831	-.1487	-.0545	.0003	.0109	.1191	.3306	.5189	.0000	-.0737	-.1011
225.000		.0240	.2183	-.3237	-.4125	-.2225	-.0945	-.0130	.0205	.1878	.3708				

ARC87-018 IAS: LVAP(ALL3L SEALED) SRM BOOSTER (RETS3S)

ALPHAL(7) = 0.272 BETAL (4) = 2.749

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0850	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7200	.7290	.7360	.7370
PHI															
270.000		.0000	.7317	-.0347	-.4470	-.2136	-.1809	-.0045	.0200	.1381	.2978	.8448	.8897	.2167	-.8487
315.000		.3048	.8848	-.1235	-.0135	-.1888	-.0200	.0307	-.0143	.0821	.0000				

X/LS	.8102	.8881	.9120	.9130	.9344	.9606
PHI						
.000	.1137	-.0844	.8528	.0001	.3733	.0000
45.000	.2834	-.1188			.4225	.4244
90.000	.1121	.0008	.8512	.0747	.1870	.1148
135.000	.2280	-.1216			.2575	.2584
180.000	.0908	-.0785	.1941	.0906	.1443	.0940
225.000	-.0811	-.2358			.2518	.0000
270.000	-.1419	-.0817	.1481	.0218	.0944	.0872
315.000	-.0979	-.1502			.1888	.2218

ALPHAL(7) = 6.247 BETAL (9) = 4.818

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0850	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7200	.7290	.7360	.7370
PHI															
.000	.4531	.3550	-.1632	-.1401	.0000	.7442	-.0121	-.4042	-.2135	-.0779	-.0428	.0138	.0550	.1777	.2999
45.000		.3830	-.1578	1.4315	.2918	.6498	-.1272	-.0190	-.1133	.0185	.0133				
90.000		.2175	-.1717	.3179	.4477	-.1726	-.1208	-.1178	-.0879	-.0544	.0000		.1152	.0628	
135.000		.1183	.0000	.1798	.2394	-.2497	-.2107	-.1831	-.1532	-.1155	-.0713				
180.000	.4531	-.1550	-.1736	.0888	.1236	-.3063	-.2677	-.2040	-.1315	-.0171	-.0281	-.0188	.2080	.3118	.3444
225.000		-.1484	-.1392	.0629	.0547	-.3094	-.2473	-.1487	-.0340	.0067	.0083				
270.000		-.1553	-.1388	.0117	.1593	-.3025	-.2718	-.1727	-.0491	-.0005	.0148	.0838	.8484	.3127	.3848
315.000		-.1158	-.1490	.0044	.2178	-.3311	-.4101	-.2301	-.0820	.0030	.0191				

X/LS	.8102	.8881	.9120	.9130	.9344	.9606
PHI						
.000	.3192	.0000	-.1847	-.0478	-.0871	.0000
45.000	.0000	.2814			-.1488	.0000
90.000	.0812	.0982	-.0852	-.1208	.0000	.2440
135.000	.0000	-.1728			.0000	.2370
180.000	.5779	-.1390	-.0888	-.0998	.0000	.1548
225.000	.5878	.2454			.0000	.1485
270.000	.1584	-.2265	-.1225	-.2038	.0000	.0782
315.000	-.1482	.0000			.0000	.8331

ARC97-019 (ABI LVAP(ALLHL SEALED) SRM BOOSTER (RET538) (04 SEP 75)

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-IB = 0.000 ELV-OB = -4.000
RUDDLR = .000 SPDBRK = .000

ALPHAL(1) = -7.023 BETAL (1) = -4.071

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7200	.7290	.7360	.7370
PHI															
.000	1.7998	.1891	.1112	-.1453	-.0811	-.0856	-.1298	-.1481	.0000	-.1595	-.2150	-.0941	.0609	.0848	-.2088
45.000		.2468	.2062	-.1431	-.1324	-.0683	-.0708	-.1119	-.1808	-.1815	-.0923				
90.000		.3041	.3206	-.0953	-.0750	-.1122	-.1022	-.0939	-.2038	-.2580	-.1004		.0038	.0222	
135.000		.4063	.3980	-.0471	-.0147	.0245	-.0038	.0729	.0145	-.0410	.0220				
180.000	1.7998	.4869	.4259	.0284	.0668	.0443	.1874	.1858	.0810	.0349	.0749	.4784	.0000	.2324	-.1829
225.000		.4319	.7770	.0944	.1290	-.0598	.2338	.2079	.0639	.0465	.1075				
270.000		.0000	.9017	.1874	.1390	-.2752	-.0868	-.0615	-.0471	-.0139	.3051	1.0390	.6870	.6928	-.2785
315.000		.1616	.3651	-.1109	-.2059	-.3030	-.1481	-.1638	-.0494	-.0066	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0082	-.1399	.0144	-.1363	-.0456	.0000
45.000	.0251	-.1874			-.0700	-.0613
90.000	-.1703	-.1586	.1513	-.1613	-.0305	.0679
135.000	.0988	-.1428			.0698	.1845
180.000	.2352	-.1624	.1275	-.0498	.2035	.3793
225.000	.0141	-.2221			.2343	.0000
270.000	-.1740	-.1261	.0144	-.0725	-.0286	-.0138
315.000	-.1056	-.1515			.1352	.1107

ALPHAL(1) = -6.998 BETAL (2) = -1.948

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7200	.7290	.7360	.7370
PHI															
.000	1.7829	.1585	.0948	-.1578	-.1010	-.1070	-.1319	-.1239	.0000	-.1817	-.0849	.1122	.1073	.1762	-.2197
45.000		.2095	.1701	-.1558	-.1487	-.0711	-.0815	-.1127	-.1880	-.1867	-.0885				
90.000		.2596	.2818	-.1145	-.1028	-.1330	-.1143	-.1120	-.2182	-.2439	-.1075		-.0208	.0072	
135.000		.3858	.3497	-.0715	-.0394	-.0032	-.0298	.0191	-.0293	-.0833	-.0222				
180.000	1.7829	.4572	.4195	.0209	.0481	.0295	.1778	.1323	.0340	-.0184	.0398	.3585	.0000	.3019	-.2345
225.000		.4169	.7405	.0898	.1174	-.0577	.2458	.1851	.0424	.0072	.1251				
270.000		.0000	.8978	.1981	.1392	-.2814	-.1027	-.0793	-.0041	-.0371	.2211	.7499	.3500	.3843	-.2698
315.000		.1420	.3518	-.1187	-.2170	-.3188	-.1630	-.1840	-.0332	-.0235	.0000				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL(1) = -8.000 BETAL (2) = -1.946

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9585
PHI						
.000	.0801	-.1405	.0826	-.1491	-.0185	.0000
45.000	-.0125	-.1642			-.0519	-.0831
90.000	-.1844	-.1298	.0809	-.1128	-.0428	.0383
135.000	.0875	-.1829			.0293	.1557
180.000	.1574	-.1983	.0758	-.3945	.2205	.3874
225.000	-.0355	-.1552			.2263	.0000
270.000	-.1520	-.1113	.0549	-.0850	-.0124	-.0094
315.000	-.0833	-.1514			.0614	.1066

ALPHAL(1) = -8.970 BETAL (3) = .198

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0850	.1118	.1387	.1856	.2784	.3832	.4750	.6887	.6886	.7280	.7290	.7360	.7370
PHI															
.000	1.7187	.1197	.0896	-.1612	-.1280	-.1287	-.1668	-.1245	.0000	-.0488	.1167	.2767	.0649	.0810	-.1935
45.000		.1655	.1310	-.1725	-.1343	-.0777	-.0931	-.1117	-.1941	-.1975	-.1054				
90.000		.2007	.2076	-.1392	-.1290	-.1579	-.1245	-.1303	-.2227	-.1895	-.0737		-.0370	-.0250	
135.000		.3039	.2948	-.0940	-.0684	-.0359	-.0128	-.0337	-.0705	-.1229	-.0686				
180.000	1.7187	.4205	.4032	-.0026	.0288	.0074	.1313	.0831	.0058	-.0472	.0223	.2984	.0000	.2592	-.2242
225.000		.3956	.5462	.0812	.1069	-.0655	.2619	.1181	.0249	-.0175	.1845				
270.000		.0050	.8865	.2079	.1409	-.2814	-.0943	-.1014	-.0395	-.0453	.2301	.8858	.3103	.3145	-.2934
315.000		.1174	.3258	-.1197	-.2253	-.3203	-.1778	-.1370	-.0188	-.0285	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9585
PHI						
.000	.0564	-.1448	.0887	-.1072	.1388	.0000
45.000	-.0079	-.1734			-.0227	-.0278
90.000	-.1889	-.1297	.0073	-.0850	-.0330	-.0108
135.000	.0242	-.2168			-.0102	.1043
180.000	.0699	-.2165	.0736	-.1138	.2236	.3852
225.000	-.0439	-.1519			.1874	.0000
270.000	-.1490	-.1053	.0229	-.0789	-.0428	-.0319
315.000	-.0787	-.1374			-.0028	.0188

ARC97-012 1A8: LVAP(ALUM. SEALED) SRM BOOSTER (RETS38)

ALPHAL(1) = -8.928 BETAL (4) = 2.342

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7380	.7370
PHI															
.000	1.8479	.0872	.0528	-.1480	-.1386	-.1513	-.1581	-.1101	.0000	-.0338	.1283	.2760	.0829	.1202	-.1683
45.000		.1221	.1048	-.1845	-.1789	-.0841	-.0998	-.1114	-.1818	-.2377	-.0566				
90.000		.1586	.1622	-.1576	-.1477	-.1734	-.1255	-.1413	-.2048	-.1578	-.0294		-.0608	-.0369	
135.000		.2469	.2472	-.1149	-.0947	-.0718	-.0102	-.0905	-.1194	-.1485	-.1018				
180.000	1.8489	.3788	.3850	-.0327	.0120	-.0115	.0882	.0316	-.0284	-.0582	.0040	.4420	.0000	.1227	-.2394
225.000		.3732	.4439	.0705	.0938	-.0687	.2469	.0779	.0027	-.0365	.2672				
270.000		.0000	.8817	.2219	.1409	-.2875	-.0937	-.1258	-.0514	-.0358	.1785	.7160	.3565	.3894	-.2924
315.000		.0939	.3074	-.1210	-.2290	-.3209	-.1998	-.1191	-.0083	-.0281	.0000				

X/LS	.8102	.8861	.9120	.9130	.9344	.9565
PHI						
.000	.0480	-.1425	.0390	-.1242	.1628	.0000
45.000	.0341	-.1473			.0034	-.0034
90.000	-.0703	-.1052	.0127	-.0744	-.0088	-.0146
135.000	-.0584	-.1422			-.0338	.0710
180.000	.0129	-.2221	.0657	-.1094	.3302	.2274
225.000	-.0474	-.1608			.0693	.0000
270.000	-.1226	-.1335	-.0281	-.1001	-.0783	-.0685
315.000	-.0815	-.1621			-.0182	.0208

ALPHAL(1) = -8.898 BETAL (5) = 4.478

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7380	.7370
PHI															
.000	1.5866	.0558	.0408	-.1558	-.1795	-.1610	-.1388	-.0788	.0000	-.0323	.0997	.2897	.0741	.1594	-.1668
45.000		.0892	.0718	-.1928	-.1801	-.0922	-.1009	-.0848	-.1468	-.1756	-.0766				
90.000		.1161	.1277	-.1706	-.1675	-.1945	-.1137	-.1428	-.1561	-.1287	.0027		-.0939	-.0687	
135.000		.2001	.2040	-.1314	-.1070	-.0954	-.0540	-.1192	-.1704	-.1911	-.1280				
180.000	1.5866	.3449	.3610	-.0440	-.0193	-.0199	.0549	-.0039	-.0452	-.0911	.0140	.4189	.0000	.0069	-.2561
225.000		.3540	.3886	.0656	.0838	-.0623	.2695	.0440	-.0180	-.0080	.1560				
270.000		.0000	.8905	.2450	.1408	-.2908	-.0562	-.1417	-.0543	-.0378	.1123	.6514	.3559	.3572	-.2800
315.000		.0776	.2935	-.1257	-.2350	-.3184	-.1943	-.1295	-.0119	-.0187	.0000				

X/LS	.8102	.8861	.9120	.9130	.9344	.9565
PHI						
.000	.0838	-.1421	.0238	-.1222	.1273	.0000
45.000	.0328	-.1498			.0547	.0384
90.000	-.0845	-.1380	.0308	-.0907	-.0220	-.0345
135.000	-.0872	-.1100			-.0256	.0662
180.000	-.0185	-.1723	.1071	-.0949	.0965	.0697

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS36)

ALPHAL(1) = -6.898 BETAL (5) = 4.448

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8861	.9120	.9130	.9344	.9585
PHI						
225.000	-.0737	-.1881			.0737	.9000
270.000	-.1370	-.1284	-.0217	-.0889	-.0612	-.0405
315.000	-.0885	-.1991			.0159	.0713

ALPHAL(2) = -4.814 BETAL (1) = -6.170

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4758	.5867	.6885	.7280	.7290	.7360	.7370
PHI															
.000	1.8560	.2553	.1780	-.1270	-.0535	-.0509	-.1478	-.0920	.0008	-.0688	.0339	.0885	-.0218	.0289	-.1632
45.000		.3138	.2682	-.1134	-.0985	-.0213	-.0281	-.0778	-.1412	-.1831	-.0278				
90.000		.3697	.3729	-.0872	-.0400	-.0809	-.0307	-.0307	-.1078	-.1673	-.0812		.0378	.0845	
135.000		.4202	.4052	-.0481	-.0111	.0812	.0188	.1400	.0882	.0132	.0811				
180.000	1.8560	.4580	.3822	-.0197	.0503	.0313	-.0345	.2315	.1001	.0914	.1085	.5830	.0000	.2188	-.1429
225.000		.4078	.7529	.0725	.0989	-.1082	.1825	.2332	.0886	.1034	.1884				
270.000		.0000	.9193	.1972	.0458	-.2723	-.1394	-.0544	-.1000	.0018	.3138	1.0979	.8262	.9046	-.2787
315.000		.2314	.4841	-.0873	-.1312	-.2758	-.1191	-.1181	-.0483	-.0007	.0000				

X/LS	.8102	.8861	.9120	.9130	.9344	.9585
PHI						
.000	-.0487	-.1458	-.0871	-.1473	.0137	.0000
45.000	.0888	-.1478			.0044	.0899
90.000	-.1198	-.1144	.0050	-.1508	.0818	.1862
135.000	.1382	-.0981			.1458	.1720
180.000	.3190	-.1211	.2052	-.1142	.1282	.3303
225.000	.0530	-.2383			.2091	.0000
270.000	-.1722	-.1195	-.0345	-.0827	-.0451	-.0223
315.000	-.0925	-.1452			.0381	.0584

ALPHAL(2) = -4.798 BETAL (2) = -4.183

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4758	.5867	.6885	.7280	.7290	.7360	.7370
PHI															
.000	1.8080	.2199	.1534	-.1434	-.0718	-.0718	-.1828	-.0883	.0000	-.0606	.0488	.1081	-.0170	.0457	-.1700
45.000		.2735	.2370	-.1288	-.1135	-.0388	-.0482	-.0944	-.1441	-.1487	-.0350				
90.000		.3190	.3288	-.0948	-.0888	-.0807	-.0484	-.0888	-.1388	-.1828	-.0850		.0178	.0488	
135.000		.3821	.3880	-.0821	-.0894	.0894	-.0087	.0948	.0844	-.0240	.0370				
180.000	1.8080	.4290	.3807	-.0220	.0388	.0174	-.0383	.1912	.0842	.0302	.0887	.4888	.0080	.2288	-.1713
225.000		.3885	.7358	.0707	.0873	-.1098	.1808	.1987	.0584	.0590	.1598				

ARC87-019 IA81 LVAP(ALUM. BEALED) SRM BOOSTER (RETS38)

ALPHAL(2) = -4.790 BETAL (2) = -4.103

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7200	.7290	.7360	.7370
PHI															
270.000		.0000	.9260	.2089	.0428	-.2774	-.1345	-.0832	-.0311	-.0169	.3042	1.0277	.7614	.8481	-.2844
315.000		.2006	.4521	-.0898	-.1438	-.2837	-.1168	-.1473	-.0508	-.0040	.0000				

X/LS	.8102	.8881	.9120	.9130	.9344	.9586
PHI						
.000	-.0471	-.1315	-.0383	-.1486	.0878	.0000
45.000	.0378	-.1482			.0025	.0526
90.000	-.1218	-.1812	-.0318	-.1479	.0581	.1573
135.000	.1143	-.1167			.1040	.1843
180.000	.2514	-.1447	.1484	-.1226	.1474	.3238
225.000	.0050	-.2240			.2648	.0080
270.000	-.1838	-.1243	.0127	-.0705	-.0277	.0037
315.000	-.0988	-.1530			.0365	.0050

ALPHAL(2) = -4.746 BETAL (3) = .154

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7200	.7290	.7360	.7370
PHI															
.000	1.7315	.1855	.1164	-.1328	-.1172	-.1147	-.1577	-.0874	.0000	-.0348	.1430	.2442	.0389	.1302	-.1522
45.000		.1897	.1607	-.1683	-.1497	-.0607	-.0751	-.0988	-.0980	-.0682	-.0481				
90.000		.2227	.2250	-.1334	-.1221	-.1314	-.0678	-.0819	-.1678	-.1493	-.0132		-.0118	.0183	
135.000		.2851	.2680	-.1089	-.0793	-.0418	-.0682	-.0051	-.0230	-.1040	-.0400				
180.000	1.7315	.3839	.3245	-.0402	.0016	-.0235	.1323	.0832	.0098	-.0481	.0324	.3818	.0000	.2177	-.2248
225.000		.3529	.6578	.0584	.0813	-.1240	.1892	.1168	.0105	-.0141	.2549				
270.000		.0000	.9204	.2428	.0279	-.2827	-.1230	-.0980	-.0303	-.0371	.2291	.7351	.3388	.4387	-.2997
315.000		.1823	.4118	-.0828	-.1664	-.3088	-.1371	-.1705	-.0313	-.0248	.0000				

X/LS	.8102	.8881	.9120	.9130	.9344	.9586
PHI						
.000	-.0134	-.1427	-.0140	-.1188	.1280	.0000
45.000	.0292	-.1295			.0228	.0167
90.000	-.0883	-.1115	-.0178	-.0014	.0504	.0988
135.000	.1015	-.1844			.0356	.0977
180.000	.1089	-.2104	.0585	-.0868	.1398	.2838
225.000	-.0394	-.1358			.0998	.0000
270.000	-.1401	-.1081	.0148	-.0758	-.0397	-.0280
315.000	-.0804	-.1241			-.0182	-.0028

ARC87-019 IA81 LVAPIALLHL SEALED) SRM BOOSTER (RETS36)

ALPHAL(2) = -4.672 BETAL (4) = 4.402

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6077	.0886	.0825	-.1586	-.1175	-.1505	-.1348	-.0593	.0000	-.0263	.0880	.3719	.0845	.0884	-.1603
45.000		.1103	.0915	-.1903	-.1724	-.0811	-.0895	-.0538	-.0169	-.0353	-.0525				
90.000		.1300	.1329	-.1699	-.1602	-.1608	-.0760	-.1065	-.1123	-.0861	.0495		-.0520	-.0339	
135.000		.1811	.1815	-.1422	-.1264	-.0934	-.0365	-.0998	-.1039	-.1447	-.0237				
180.000	1.6077	.2821	.3041	-.0686	-.0284	-.0567	.0657	-.0098	-.0538	-.0803	.0271	.4542	.0000	-.0032	-.2529
225.000		.3002	.3982	.0416	.0423	-.1133	.2116	.0407	-.0363	-.0308	.1546				
270.000		.0000	.9131	.2993	.0390	-.2900	-.1023	-.1415	-.0596	-.0240	.1129	.7098	.3664	.5342	-.2952
315.000		.1168	.3828	-.0856	-.1766	-.3041	-.1341	-.1341	-.0395	-.0311	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0965	-.1353	.0214	-.1261	.1107	.0000
45.000	.0784	-.1315			.1403	.1158
90.000	-.0012	-.1019	.0310	-.0541	.0204	.0220
135.000	.0036	-.1189			.0069	.0720
180.000	.0183	-.1732	.0519	-.0683	.1416	.1066
225.000	-.0864	-.1639			.0458	.0000
270.000	-.1398	-.1292	-.0458	-.0917	-.0679	-.0468
315.000	-.0839	-.1707			.0034	.1063

ALPHAL(2) = -4.648 BETAL (5) = 6.519

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5613	.0626	.0642	-.1611	-.1221	-.1607	-.1168	-.0439	.0000	-.0253	.0764	.3261	.0779	.0770	-.1615
45.000		.0752	.0671	-.1990	-.1790	-.0903	-.0946	-.0272	-.0079	-.0359	-.0233				
90.000		.0891	.1043	-.1808	-.1732	-.1681	-.0696	-.1100	-.0757	-.0952	.0810		-.0515	-.0499	
135.000		.1402	.1528	-.1514	-.1315	-.1167	-.0660	-.1453	-.1577	-.1428	.0683				
180.000	1.5613	.2608	.2776	-.0774	-.0450	-.0627	.0354	-.0362	-.0706	-.1149	.0589	.5602	.0000	-.0706	-.2602
225.000		.2876	.3106	.0415	.0389	-.1006	.2287	.0027	-.0499	-.0651	.1561				
270.000		.0000	.9236	.3176	.0421	-.2944	-.0914	-.1495	-.0479	-.0265	.2008	.6957	.4907	.7402	-.2683
315.000		.1030	.3709	-.0829	-.1813	-.2937	-.1257	-.1251	-.0537	-.0343	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0957	-.1172	.0518	-.0986	.1755	.0000
45.000	.1022	-.0995			.3035	.3680
90.000	.0404	-.0432	.0585	-.0215	.1019	.1273
135.000	-.0274	-.0747			.0794	.0665
180.000	.0141	-.1343	.0900	-.0308	.0515	.0341

ARC97-019 IA31 EVAP(ALLHL SEALED) SRM BOOSTER (RETS36)

ALPHAL(2) = -4.648 BETAL (5) = 6.519

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0869	-.1674			-.0218	.0000
270.000	-.1359	-.1343	-.0710	-.0996	-.0800	-.0680
315.000	-.0731	-.1725			.0389	.1119

ALPHAL(3) = -2.574 BETAL (1) = -6.166

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8683	.2031	.2186	-.1290	-.0316	-.0380	-.1334	-.0411	.0000	-.0328	.1074	.2047	.0121	.0502	-.1187
45.000		.3403	.2960	-.1047	-.0805	.0045	-.0115	-.0520	-.0491	-.0782	-.0076				
90.000		.3751	.3697	-.0672	-.0425	-.0290	.0220	.0011	-.0485	-.0827	.0271		.0593	.1100	
135.000		.4004	.3700	-.0667	-.0338	.0324	.0130	.1336	.0744	.0167	.1060				
180.000	1.8683	.4007	.3254	-.0496	.0238	-.0004	-.0713	.2130	.0864	.0381	.1155	.5640	.0000	.2312	-.1220
225.000		.3655	.6830	.0450	.0514	-.1577	.0188	.2028	.0621	.1226	.2659				
270.000		.0000	.9476	.2065	-.0448	-.2594	-.0617	-.0758	-.1197	.0028	.0034	1.1159	.8716	1.0549	-.2783
315.000		.2714	.5577	-.0303	-.0657	-.2463	-.0633	-.0391	-.0568	.0083	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0095	-.1290	-.0848	-.0951	-.0032	.0000
45.000	.0667	-.1258			.1439	.2473
90.000	-.0822	-.0785	.0173	-.0784	.1092	.2730
135.000	.1509	-.0725			.1994	.1843
180.000	.3241	-.1039	.2441	-.1092	.2106	.2740
225.000	.0628	-.2000			.2196	.0000
270.000	-.1743	-.1088	-.0196	-.0687	-.0302	-.0202
315.000	-.0988	-.1473			-.0218	-.0183

ALPHAL(3) = -2.549 BETAL (2) = -1.978

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7767	.2563	.1771	-.1183	-.0646	-.0778	-.1472	-.0484	.0000	-.0190	.1418	.2172	.0322	.1037	-.1310
45.000		.2844	.2240	-.1344	-.1157	-.0289	-.0471	-.0814	-.0419	-.0335	-.0183				
90.000		.2686	.2799	-.1086	-.0906	-.0800	-.0153	-.0252	-.0959	-.0850	.0379		.0471	.0798	
135.000		.3142	.2951	-.0890	-.0742	-.0026	-.0387	.0756	-.0006	-.0403	.0370				
180.000	1.7767	.3423	.2773	-.0700	-.0042	-.0344	-.0814	.1443	.0263	-.0436	.0784	.4484	.0000	.2938	-.1666
225.000		.3239	.6578	.0347	.0315	-.1693	.1244	.1347	.0098	.0150	.2676				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS36)

ALPHAL(3) = -2.548 BETAL (2) = -1.978

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	9374	.2409	-.0578	-.2753	-.0634	-.0911	-.0420	-.0177	.3035	.9415	.6900	.7556	-.2859
315.000		.2269	.5328	-.0398	-.0900	-.2622	-.0769	-.0708	-.0478	-.0057	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0125	-.1472	.0062	-.0989	.0338	.0000
45.000	.0503	-.0941			.1463	.2193
90.000	-.0619	-.0871	.0193	-.0851	.1534	.2254
135.000	.1672	-.1093			.1045	.1563
180.000	.2385	-.1607	.1563	-.1195	.1010	.2634
225.000	.0126	-.1851			.1621	.0000
270.000	-.1552	-.0990	.0502	-.0626	-.0189	-.0203
315.000	-.0668	-.1327			-.0096	.0188

ALPHAL(3) = -2.503 BETAL (3) = 2.271

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6721	.1638	.1309	-.1332	-.0866	-.1152	-.1390	-.0421	.0000	-.0160	.1724	.2884	.0699	.1376	-.1332
45.000		.1661	.1509	-.1636	-.1399	-.0724	-.0723	-.0668	-.0001	-.0089	.1010				
90.000		.1832	.1841	-.1529	-.1347	-.1155	-.0415	-.0594	-.0755	-.0451	.1120		.0085	.0476	
135.000		.2084	.1980	-.1405	-.1135	-.0667	-.0816	.0012	-.0431	-.0922	.0796				
180.000	1.6721	.2707	.2393	-.0779	-.0390	-.0724	.0952	.0509	-.0192	-.0725	.0784	.5889	.0000	.0715	-.2161
225.000		.2945	.6077	.0271	.0107	-.1771	.0387	.0560	-.0237	-.0237	.2189				
270.000		0000	.9336	.2965	-.0554	-.2812	-.0857	-.1201	-.0560	-.0467	.2073	.8240	.4214	.6732	-.2946
315.000		.1845	.5004	-.0445	-.0991	-.2689	-.1008	-.0678	-.0709	-.0402	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0369	-.1317	-.0187	-.1207	.0966	.0000
45.000	.1386	-.1204			.1537	.1553
90.000	.0130	-.0790	.0215	-.0549	.1251	.1598
135.000	.1235	-.1564			.0587	.0873
180.000	.1120	-.1676	.0545	-.0337	.0992	.2011
225.000	-.0424	-.1374			.0475	.0000
270.000	-.1390	-.1060	-.0293	-.0883	-.0710	-.0662
315.000	-.0893	-.1342			-.0431	.0126

ARC87-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS36)

ALPHAL(3) = -2.452 BETAL (41 = 6.477

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5724	.1123	.1042	-.1397	-.1065	-.1396	-.1198	-.0376	.0000	-.0240	.0876	.3358	.1396	.1438	-.1708
45.000		.0971	.0916	-.1092	-.1592	-.0869	-.0922	.0006	.0060	-.0234	.0258				
90.000		.1055	.1071	-.1820	-.1673	-.1339	-.0543	-.0588	-.0299	-.0590	.1135		-.0292	-.0295	
135.000		.1262	.1238	-.1615	-.1493	-.1082	-.0431	-.0835	-.0936	-.0745	.1216				
180.000	1.5724	.2090	.2252	-.0992	-.0625	- 0937	.0548	-.0389	-.0813	-.0826	.1038	.6266	.0000	-.0431	-.2391
225.000		.2436	.4980	.0204	.0035	-.1605	.1556	-.0222	-.0645	-.0651	.1789				
270.000		.0000	.9369	.3427	-.0464	-.2804	-.0935	-.1474	-.0619	-.0234	.2264	.8119	.5345	.8318	-.2869
315.000		.1518	.4539	-.0461	-.1120	-.2649	-.0925	-.0579	-.0687	-.0431	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1163	-.0989	.0788	-.0269	.1504	.0000
45.000	.1134	-.0802			.3167	.3514
90.000	.0898	-.0455	.0708	-.0021	.1260	.1465
135.000	.0269	-.0783			.1048	.1100
180.000	.0562	-.0892	.1244	.0191	.0598	.0407
225.000	-.0677	-.1616			-.0150	.0000
270.000	-.1323	-.1278	-.0941	-.0212	-.0705	-.0606
315.000	-.0747	-.1670			.0419	.1083

ALPHAL(4) = -.330 BETAL (1) = -6.145

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8698	.3433	.2585	-.1088	-.0735	-.0187	-.0881	-.0003	.0000	-.0113	.1600	.2824	.0509	.0363	-.1031
45.000		.3677	.3339	-.0881	-.0549	.0261	.0029	-.0238	.0087	-.0045	-.0143				
90.000		.3793	.3716	-.0664	-.0319	-.0199	.0460	.0158	-.0067	-.0049	.1013		.0910	.1427	
135.000		.3761	.3420	-.0800	-.0485	.0023	.0045	.0968	.0690	.0269	.1470				
180.000	1.8698	.3549	.2669	-.0874	-.0595	.0228	-.0990	.1903	.0926	.0751	.1415	.5653	.0000	.2562	-.0918
225.000		.3284	.6076	.0161	.0018	.1983	.0032	.1293	.0505	.0735	.3700				
270.000		.0700	.9625	.2103	-.0977	-.2540	.0013	-.0726	-.1285	.0042	.3546	1.1316	.9302	1.0852	-.2746
315.000		.3203	.5983	.0061	-.0006	-.2038	-.0376	.0074	-.0593	.0032	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0644	-.1529	-.1277	-.1583	.0072	.0000
45.000	.0965	-.1059			.2746	.3725
90.000	.0285	-.0377	.0400	.0082	.2614	.3308
135.000	.1867	- 0715			.2408	.2208
180.000	.3385	-.0770	.2968	-.0969	.0958	.1645

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RITS38)

ALPHAL(4) = -.330 BETAL (1) = -6.145

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
225.000	.0871	-.2088			.1512	.0000
270.000	-.1857	-.1008	-.0088	-.0541	-.0169	-.0128
315.000	-.0902	-.1397			-.0474	.0048

ALPHAL(4) = -.330 BETAL (2) = -4.088

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CF

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8187	.3087	.2320	-.0997	-.0173	-.0321	-.0993	-.0061	.0000	-.0094	.1648	.2669	.0362	.0278	-.1148
45.000		.3290	.2983	-.1017	-.0791	.0023	-.0228	-.0392	.0103	.0019	-.0046				
90.000		.3381	.3332	-.0852	-.0588	-.0456	.0215	-.0116	-.0190	-.0124	.1012		.0753	.1132	
135.000		.3323	.3074	-.0929	-.0585	-.0231	-.0190	.0960	.0410	.0142	.1161				
180.000	1.8187	.3142	.2485	-.0861	-.0100	-.0379	-.1083	.1673	.0472	.0410	.1213	.5064	.0000	.2669	-.1072
225.000		.2986	.6110	.0103	-.0103	-.2083	.0025	.1085	.0365	.0604	.3339				
270.000		.0000	.9563	.2283	-.1038	-.2597	-.0020	-.1012	-.1153	-.0395	.3384	1.0999	.8581	.9820	-.2819
315.000		.2906	.6007	.0013	-.0116	-.2124	-.0456	-.0097	-.0606	-.0140	.0000				

X/LS	.8102	8661	.9120	.9130	.9344	.9565
PHI						
.000	.0349	-.1501	-.1046	-.1489	.0291	.0000
45.000	.0757	-.1122			.2656	.3633
90.000	.0155	-.0254	.0268	.0079	.2219	.2807
135.000	.1572	-.0681			.2341	.2112
180.000	.3311	-.1125	.2274	-.1030	.0754	.2080
225.000	.0505	-.2257			.2029	.0000
270.000	-.1633	-.0968	-.0053	-.0490	-.0075	-.0036
315.000	-.0894	-.1292			-.0413	.0054

ALPHAL(4) = -.297 BETAL (3) = .134

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7344	.2437	.1901	-.1092	-.0457	-.0742	-.1248	-.0243	.0000	-.0025	.1569	.2822	.0312	.1082	-.1175
45.000		.2340	.2166	-.1380	-.1125	-.0582	-.0838	-.0622	.0204	.0107	.1282				
90.000		.2360	.2308	-.1283	-.1115	-.0855	-.0188	-.0268	-.0198	-.0019	.0916		.0487	.0746	
135.000		.2376	.2188	-.1289	-.1064	-.0701	-.0606	.0538	-.0125	-.0378	.1806				
180.000	1.7344	.2482	.1981	-.1067	-.0450	-.0787	-.0927	.0998	.0049	-.0562	.1314	.4087	.0000	.3468	-.1599
225.000		.2560	.5814	-.0029	-.0376	-.2255	.0638	.0474	-.0058	-.0284	.3261				

ARC97-019 IA81 LVAP(ALLML SEALED) SRM BOOSTER RETS381

ALPHAL(4) = -.297 BETAL (3) = .134

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.0423	.2727	-.1041	-.2744	-.0429	-.1364	-.0763	-.0624	.3125	.8884	.6038	.6177	-.2824
315.000		.2512	.3613	-.0074	-.0273	-.2290	-.0673	-.0284	-.0278	-.0438	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0135	-.1065	-.0420	-.1062	.0595	.0000
45.000	.0784	-.0927			.1388	.1774
90.000	-.0017	-.0680	.0264	-.0500	.2111	.2612
135.000	.2569	-.0959			.1629	.1543
180.000	.2264	-.1461	.1542	-.1203	.0569	.1792
225.000	.0156	-.2013			.1375	.0000
270.000	-.1355	-.1143	.0216	-.0808	-.0448	-.0431
315.000	-.0995	-.1355			-.0493	-.0140

ALPHAL(4) = -.286 BETAL (4) = 4.345

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6118	.1800	.1671	-.1163	-.0728	-.1102	-.1267	-.0310	.0000	-.0190	.1364	.2967	.1164	.1695	- 1615
45.000		.1458	.1429	-.1690	-.1308	-.0746	-.0965	-.0330	.0165	-.0132	.1238				
90.000		.1448	.1451	-.1639	-.1491	-.1131	-.0375	-.0317	-.0050	-.0144	.1170		.0226	.0501	
135.000		.1519	.1387	-.1655	-.1352	-.0800	-.0856	.0001	-.0387	-.0569	.1646				
180.000	1.6118	.1855	.1642	-.1174	-.0792	-.1102	.0675	.0200	-.0533	-.0468	.1176	.6781	.0000	.0488	-.2191
225.000		.2189	.5392	-.0119	-.0455	-.2246	.0367	-.0180	-.0536	-.0332	.1992				
270.000		.0000	.9180	.3168	-.1237	-.2413	-.0580	-.1399	-.0953	-.0371	.2105	.7841	.3889	.4693	-.2991
315.000		.2069	.5472	-.0119	-.0412	-.2308	-.0725	-.0176	-.0439	-.0436	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1025	-.1071	.0702	-.0374	.1274	.0000
45.000	.0747	-.0855			.1608	.1457
90.000	.0378	-.0704	.0577	-.0551	.2161	.2229
135.000	.1667	-.1235			.0702	.1114
180.000	.1191	-.0894	.1017	-.0291	.0965	.1441
225.000	-.0395	-.1544			.0782	.0000
270.000	-.1325	-.1180	-.0374	-.0843	-.0548	-.0314
315.000	-.0971	-.1556			.0439	.1230

AR287-019 1A8, LV(P(ALLHL SEALED)) SRM BOOSTER (RETS36)

ALPHAL(4) = -.279 BETAL (5) = 6.458

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5662	.1560	.1602	-.1145	-.0854	-.1227	-.1108	-.0366	.0000	-.0245	.1192	.3186	.1402	.1658	-.1594
45.000		.1104	.1071	-.1795	-.1513	-.0953	-.1040	-.0130	.0047	-.0190	.1254				
90.000		.1097	.1113	-.1743	-.1616	-.1201	-.0471	-.0307	-.0117	-.0213	.1361		-.0004	.0362	
135.000		.1162	.1081	-.1751	-.1478	-.1008	-.0162	-.0384	-.0546	-.0595	.1416				
180.000	1.5662	.1679	.1663	-.1063	-.0899	-.1159	.0523	-.0365	-.0740	-.0575	.1189	.6918	.0000	-.0276	-.2261
225.000		.2097	.5314	-.0178	-.0494	-.1677	-.0014	-.0111	-.0769	-.0511	.1412				
270.000		.0000	.8868	.2720	-.1188	-.1815	-.1040	-.0979	-.0718	-.0439	.1649	.8367	.5210	.7264	-.2931
315.000		.1932	.5467	-.0169	-.0477	-.1937	-.0886	-.0059	-.0381	-.0316	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1140	-.0909	.0891	.0122	.1698	.0000
45.000	.0978	-.0600			.2151	.2173
90.000	.0936	-.0368	.0932	-.0157	.2630	.2681
135.000	.0942	-.0757			.1360	.1687
180.000	.0933	-.0835	.1408	.0209	.0704	.0547
225.000	-.0612	-.1710			.0325	.0000
270.000	-.1253	-.1182	-.0460	-.0797	-.0572	-.0399
315.000	-.0915	-.1533			.0347	.1156

ALPHAL(5) = 1.884 BETAL (1) = -6.082

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8595	.3889	.3029	-.0780	.0038	.0125	-.0636	.0057	.0000	.0307	.1938	.2902	.0673	.0330	-.1196
45.000		.3908	.3614	-.0745	-.0453	.0395	.0099	-.0036	.0221	.0397	.0226				
90.000		.3755	.3675	-.0664	-.0389	-.0280	.0301	.0054	.0333	.0410	.0928		.1019	.1220	
135.000		.3488	.3077	-.0932	-.0762	.0000	-.0049	.0188	.0520	.0213	.2090				
180.000	1.8595	.3110	.2220	-.1285	-.0277	-.0370	-.1172	.1418	.0650	.0588	.2303	.5509	.0000	.3054	-.0640
225.000		.2922	.5528	-.0142	-.0514	-.2317	-.0023	.0731	.0258	.0511	.3678				
270.000		.0000	.9547	.2027	-.1269	-.2509	.0182	.0381	-.0680	-.0871	.2902	1.3155	.8233	.8980	-.2775
315.000		.3607	.6277	.0388	.0735	-.1625	-.0540	.0494	.0164	-.0014	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0489	-.1460	-.0521	-.1099	.0804	.0000
45.000	.1404	-.0331			.2649	.3369
90.000	.0612	.0000	.0830	.0579	.3369	.3977
135.000	.2311	-.0395			.2877	.2658
180.000	.3398	-.0135	.3530	-.0813	.1064	.0419

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS36)

ALPHAL(5) = 1.884 BETAL (1) = -6.082

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0673	-.2027			.0653	.0000
270.000	-.1451	-.0971	.0142	-.0601	-.0112	-.0096
315.000	-.1065	-.1306			-.0305	.0215

ALPHAL(5) = 1.875 BETAL (2) = -1.919

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7857	.3306	.2508	-.0868	-.0057	-.0312	-.0934	-.0082	.0000	.0113	.1363	.4389	.0733	.0645	-.1236
45.000		.3119	.2802	-.1066	-.0881	-.0154	-.0416	-.0397	.0255	.0243	.1117				
90.000		.2908	.2760	-.1095	-.0923	-.0788	-.0143	-.0432	.0046	.0191	.1269		.0593	.0768	
135.000		.2692	.2284	-.1274	-.1068	-.0376	-.0445	.0599	.0126	.0058	.1991				
180.000	1.7857	.2446	.1811	-.1193	-.0527	-.0794	-.0895	.0911	.0194	.0013	.1936	.4847	.0000	.3552	-.1058
225.000		.2394	.0503	-.0247	-.0723	-.2522	-.0143	.0316	-.0013	-.0091	.3572				
270.000		.0000	.0326	-.0265	-.1405	-.2580	.0050	-.0056	-.0489	-.0418	.2863	.8721	.6600	.5760	-.2841
315.000		.3158	-.0	.0303	.0509	-.1872	-.0699	.0185	.0045	-.0091	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
000	.0555	-.0822	-.0099	-.03	-.053	.0000
45.000	.0710	-.0924			-.034	.2201
90.000	.0360	-.00.8	.0737	-.05	-.024	.3179
135.000	.2080	-.0648			.0007	.2282
180.000	.3553	-.1047	.2465	-.0606	.0729	.0883
225.000	.6111	-.2134			.1831	.0000
270.000	-.1323	-.0873	.0332	-.0585	-.0093	-.0063
315.000	-.1060	-.1330			.0025	.0196

ALPHAL(5) = 1.863 BETA (3) = 2.307

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6768	.2643	.2283	-.0936	-.0397	-.0735	-.1160	-.0202	.0000	-.0144	.1608	.2704	.0834	.1413	-.1295
45.000		.2079	.1991	-.1484	-.1191	-.0564	-.0874	-.0579	.0241	.0015	.1275				
90.000		.1736	.1729	-.1526	-.1359	-.1130	-.0447	-.0238	.0100	.0034	.1680		.0197	.0497	
135.000		.1647	.1527	-.1574	-.1339	-.0944	-.0659	.0334	-.0047	-.0228	.2172				
180.000	1.6768	.1668	.1305	-.1381	-.0812	-.1175	.0097	.0339	-.0293	-.0510	.1851	.6656	.0000	.1381	-.1716
225.000		.1901	.4960	-.0400	-.0889	-.2636	-.0151	.0023	-.0397	-.0400	.2891				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS36)

ALPHAL(5) = 1.883 BETAL (3) = 2.307

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.9274	.2819	-.1359	-.2655	-.0122	.0000	-.0381	-.0384	.2380	.7271	.3722	4776	-.3007
315.000		.2739	.6053	.0233	.0401	-.1980	-.0791	.0161	-.0105	-.0245	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0264	-.0899	-.0148	-.0447	.1141	.0000
45.000	.0879	-.0796			1685	.1675
90.000	.0041	-.0471	.0601	-.0251	.2414	.2572
135.000	.2656	-.1018			.1732	.1668
180.000	.2277	-.0866	.1813	-.0977	.0354	.1111
225.000	-.0031	-.1381			.1366	.0000
270.000	-.1249	-.1027	.0180	-.0579	-.0299	-.0141
315.000	-.0985	-.1268			.0013	.0383

ALPHAL(5) = 1.856 BETAL (4) = 6.498

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5654	.2081	.2181	-.0999	-.0843	-.0983	-.0986	-.0291	.0000	-.0330	.0900	.3937	.1018	.1432	-.1546
45.000		.1233	.1278	-.1730	-.1468	-.1019	-.1187	-.0426	.0005	-.0240	.1315				
90.000		.1020	.1065	-.1749	-.1652	-.1334	-.0538	-.0133	.0027	-.0233	.1502		.0124	.0866	
135.000		.0965	.0890	-.1857	-.1558	-.0868	-.0365	-.0092	-.0194	-.0395	.1774				
180.000	1.5654	.1172	.1003	-.1404	-.1067	-.1314	.0162	-.0079	-.0661	-.0512	.1674	.6208	.0000	-.0242	-.2022
225.000		.1663	.4542	-.0392	-.0903	-.1552	-.0095	-.0079	-.0742	-.0470	.2710				
270.000		.0000	.9126	.3183	-.1491	-.2079	-.0268	.0079	-.0570	-.0444	.2254	.6247	.4337	.4885	-.3006
315.000		.2427	.3831	.0202	.0318	-.1901	-.0692	.0182	-.0369	-.0378	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0940	-.0760	.0714	-.0028	.2177	.0000
45.000	.1183	-.0458			.1945	.2138
90.000	.0461	-.0326	.0897	-.0017	.3006	.3443
135.000	.1502	-.0702			.1707	.2286
180.000	.1081	-.0619	.1643	.0232	.0881	.0731
225.000	-.0763	-.1467			.1077	.0000
270.000	-.1197	-.1056	.0032	-.0620	-.0315	-.0024
315.000	-.1008	-.1281			.0290	.1421

ARC97-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS36)

ALPHAL(6) = 4.098 BETAL (1) = -6.018

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	[illegible]	.1118	.1397	.1956	.2794	.3632	.4750	.5867	[illegible]	.7280	.7290	.7360	.7370
PHI															
.000	1.6547	[illegible]	[illegible]	-.0586	.0419	.0381	-.0430	-.0158	.0000	.0427	.2025	.3310	.0691	.0646	-.1353
45.000		[illegible]	.3967	[illegible]	-.0289	.0451	.0178	.0085	.0223	[illegible]	[illegible]				
90.000		.3670	.3545	-.0699	-.0376	-.0546	-.0197	-.0312	.0117	.0323	.1841		.0691	.0594	
135.000		.3191	.2755	-.1062	-.0950	-.0216	-.0200	-.0671	.0436	.0294	.2612				
180.000	1.8547	.2719	.1806	-.1424	-.0475	-.0555	-.0850	.1034	.0456	.0391	.2874	.5364	.0000	.1976	-.0503
225.000		.2564	.4857	-.0450	-.0950	-.2691	-.0155	.0265	.0281	.0368	.3384				
270.000		.0000	.9321	.1859	-.1473	-.2364	.0149	.0983	.0388	.0191	.2054	.6323	.4067	.3439	-.2609
315.000		.4047	.6520	.0698	.1324	-.1190	-.1113	.0633	.0443	.0320	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0562	-.1081	-.0203	-.0812	.1506	.0000
45.000	.1592	-.0591			.4357	.4366
90.000	.1356	.0846	.1016	.1272	.2892	.3190
135.000	.2459	-.0228			.3440	.3032
180.000	.4369	.0342	.3776	-.0559	.1324	.0645
225.000	-.0196	-.1678			-.0805	.0000
270.000	-.1219	-.0809	.0243	-.0542	-.0036	-.0007
315.000	-.0940	-.1232			.0108	.0603

ALPHAL(8) = 4.067 BETAL (2) = -3.965

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	[illegible]	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8098	.4082	.3271	-.0644	[illegible]	.0205	-.0503	-.0237	.0000	.0283	.1688	.3651	.0869	.0798	-.1231
45.000		.3693	[illegible]	-.0731	[illegible]	.0196	-.0131	-.0125	.0058	.0338	.0358				
90.000		.3245	.3281	-.0869	[illegible]	-.0825	-.0382	-.0600	.0125	.0193	.1614		.0511	.0272	
135.000		.2842	.2448	-.1203	[illegible]	-.0350	-.0398	[illegible]	.0170	.0216	.2215				
180.000	1.8098	.2371	.1570	-.1582	[illegible]	-.0696	-.0924	[illegible]	.0232	.0167	.3087	[illegible]	.0000	.2188	-.0540
225.000		.2287	[illegible]	-.0491	[illegible]	-.2772	-.0247	[illegible]	.0073	.0154	.3445				
270.000		.0000	.9324	.1364	.1575	.2477	[illegible]	[illegible]	.0238	.0161	.2328	.6179	.3734	.3368	-.2485
315.000		.3801	.6385	.0651	.1226	[illegible]	[illegible]	[illegible]	.0345	.0174	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0733	-.0029	.0115	-.0513	.1468	.0000
45.000	.1253	-.0598			.4072	.4283
90.000	.1069	.0518	.1163	.0705	.2513	.2731
135.000	.2698	-.0085			.3526	.2984
180.000	.3818	.0181	.3558	-.0703	.0904	.0261

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL(6) = 4.087 BETAL (2) = -3.965

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9585
PHI						
225.000	-.0130	-.1734			-.0690	.0000
270.000	-.1253	-.0810	.0147	-.0558	-.0077	-.0004
315.000	-.1031	-.1214			.0121	.0555

ALPHAL(6) = 4.063 BETAL (3) = .245

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7283	.3549	.3019	-.0652	-.0018	-.0289	-.0809	-.0 [illegible]	.0000	-.0075	.1274	.3384	.1374	.1122	-.1514
45.000		.2780	.2654	-.1150	-.0867	-.0338	-.0887	-.0538	-.0128	.0000	.0002				
90.000		.2285	.2221	-.1302	-.1189	-.1327	-.0865	-.0902	.0119	.0090	.1338		.0335	-.0145	
135.000		.2011	.1616	-.1571	-.1472	-.0594	-.0710	.0238	.0068	-.0058	.2328				
180.000	1.7283	.1691	.1238	-.1414	-.1067	-.1166	-.0713	.0386	-.0026	-.0233	.3060	.5101	.0000	.1022	-.0859
225.000		.1833	.4272	-.0668	-.1369	-.2937	-.0440	.0023	-.0269	-.0262	.3542				
270.000		.0000	.9245	.2250	-.1732	-.2664	-.0064	.0675	.0119	-.0130	.2501	.6244	.3530	.2829	-.2856
315.000		.3513	.5759	.0531	.1058	-.1352	-.1105	.0450	.0259	-.0101	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0793	-.0835	.0753	-.0270	.1593	.0000
45.000	.1058	-.0491			.3046	.3424
90.000	.0890	.0064	.1365	.0088	.1994	.1939
135.000	.2599	-.0491			.2799	.2337
180.000	.2355	-.0251	.2613	-.1062	.0211	.0058
225.000	.0118	-.1759			.0037	.0000
270.000	-.1390	-.0935	.0323	-.0514	.0073	.0054
315.000	-.1059	-.1275			.0498	.1023

ALPHAL(6) = 4.011 BETAL (4) = 4.404

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6260	.2943	.2972	-.0588	-.0285	-.0552	-.0749	-.0094	-.0224	-.0283	.0121	.4003	.1828	.1034	-.1483
45.000		.1914	.1908	-.1452	-.1223	-.0849	-.0987	-.0827	-.0113	-.0273	.1283				
90.000		.1410	.1423	-.1659	-.1572	-.1500	-.0791	-.0387	.0086	-.0185	.1434		-.0149	-.0228	
135.000		.1177	.1063	-.1810	-.1696	-.0725	-.0618	.0197	-.0050	-.0260	.2147				
180.000	1.6260	.0935	.0886	-.1536	-.1175	-.1451	-.0367	.0115	-.0345	.0006	.2311	.5739	.0000	.0212	-.1398
225.000		.1230	.3996	-.0797	-.1627	-.2201	-.0556	.0131	-.0464	.0301	.2968				

ARC97-019 IA81 LVAP(ALLML SEALED) SRM BOOSTER (RETS36)

ALPHAL(6) = 4.011 BETAL (4) = 4.404

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0650	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.9214	.2765	-.1790	-.2260	-.0035	.0604	-.0211	.0065	.2498	.5031	.2552	.2060	-.3011
315.000		.3083	.4401	.0370	.0927	-.1348	-.0954	.0591	.0012	-.0250	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1172	-.0858	.1489	-.0103	.2060	.2833
45.000	.1123	-.0780			.2559	.2559
90.000	.0553	-.0161	.1312	.0007	.1508	.1560
135.000	.1673	-.0871			.1312	.1487
180.000	.1527	-.0679	.1394	-.0498	.0500	.0876
225.000	-.0428	-.1220			.1332	.0000
270.000	-.1191	-.0982	-.0071	-.0459	-.0084	.0104
315.000	-.0764	-.1249			.1202	.2081

ALPHAL(6) = 4.011 BETAL (5) = 6.496

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0650	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5731	.2686	.2888	.0736	-.0369	-.0545	-.0797	-.0163	-.0518	-.0420	.0022	.4736	.1499	.1700	-.1531
45.000		.1563	.1615	-.1582	-.1340	-.1074	-.1200	-.0866	-.0248	-.0368	.1058				
90.000		.1122	.1161	-.1775	-.1681	-.1613	-.0788	-.0212	-.0108	-.0365	.1481		-.0270	-.0273	
135.000		.0965	.0828	-.1896	-.1766	-.0846	-.0570	.0032	-.0108	-.0263	.1874				
180.000	1.5731	.0756	.0733	-.1933	-.1181	-.1496	-.0245	-.0108	-.0561	-.0250	.1913	.5842	.0000	-.0430	-.1675
225.000		.1112	.3729	-.0758	-.1519	-.2292	-.0287	-.0053	-.0705	-.0056	.2815				
270.000		.0000	.8964	.2644	-.1985	-.2383	.0266	.0467	-.0473	-.0283	.2612	.5220	.2937	.2541	-.3025
315.000		.2983	.3780	.0356	.0924	-.1275	-.0895	.0662	-.0106	-.0355	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1133	-.0614	.1258	.0431	.2005	.2603
45.000	.1237	-.0760			.3477	.3305
90.000	.0753	.0149	.1407	.0398	.1968	.1955
135.000	.1146	-.0458			.1593	.1972
180.000	.1169	-.0575	.1639	.0148	.0919	.0822
225.000	-.0519	-.1610			.1267	.0000
270.000	-.1231	-.1042	.0414	-.0423	.0056	.0239
315.000	-.0523	-.1296			.0974	.1982

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL(7) = 6.272 BETAL (1) = -3.908

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8053	.4628	.3918	-.0227	.0597	.0451	-.0263	-.0188	.0467	.0388	.0618	.4318	.2346	.2664	-.1155
45.000		.3957	.3915	-.0594	-.0236	.0295	-.0028	-.0071	.0011	.0168	.0211				
90.000		.3146	.3273	-.0886	-.0705	-.1092	-.0885	-.0992	-.0246	-.0032	.1787		.0421	.0198	
135.000		.2602	.2199	-.1333	-.1284	-.0646	-.0640	-.0885	.0070	.0119	.2240				
180.000	1.8053	.2035	.1204	-.1518	-.0786	-.0867	-.0872	.0600	.0287	.0300	.3211	.4493	.0000	.1582	.0215
225.000		.1875	.4009	-.0910	-.1733	-.2944	-.0533	-.0295	.0122	.0218	.3648				
270.000		.0000	.8994	.1753	-.1974	-.2544	-.0211	.0857	.0431	.0470	.3247	.4993	.3126	.2965	-.2093
315.000		.4265	.7435	.0855	.1724	-.0692	-.0800	.0610	.0493	.0365	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1470	-.0568	.1045	-.0082	.1931	.2693
45.000	.1562	.0080			.3769	.4388
90.000	.1523	.0874	.1708	.0938	.2472	.2488
135.000	.2980	.0461			.1145	.3060
180.000	.2498	.0077	.3931	-.0753	.0768	.0177
225.000	.0008	-.2029			-.1020	.0000
270.000	-.1144	-.0678	-.0085	-.0466	.0035	.0108
315.000	-.0070	-.1098			.0918	.1707

ALPHAL(7) = 6.269 BETAL (2) = -1.816

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7708	.4506	.3846	-.0190	.0444	.0223	-.0362	-.0235	.0387	.0188	.0175	.4203	.2622	.3054	-.1313
45.000		.3616	.3432	-.0804	-.0480	-.0018	-.0297	-.0427	-.0157	-.0022	-.0019				
90.000		.2724	.2731	-.1144	-.1011	-.1327	-.1019	-.1130	-.0212	-.0183	.1462		.0347	.0167	
135.000		.2247	.1815	-.1499	-.1499	-.0675	-.0769	-.0385	.0011	-.0002	.1984				
180.000	1.7708	.1765	.0981	-.1655	-.1004	-.1125	-.0925	.0526	.0139	.0090	.3260	.4462	.0000	.1378	.0003
225.000		.1658	.3758	-.0981	-.1903	-.3075	-.0551	-.0398	-.0137	.0067	.3756				
270.000		.0000	.8976	.1854	-.2075	-.2661	-.0368	.0819	.0382	-.0071	.3345	.5398	.3241	.3347	-.2167
315.000		.4163	.7050	.0812	.1694	-.0730	-.0831	.0543	.0454	.0250	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1814	-.0711	.1392	.0087	.1984	.2710
45.000	.1385	.0057			.2928	.3393
90.000	.1283	.0558	.1952	.0553	.2274	.2316
135.000	.2788	-.0008			.3846	.3087
180.000	.2192	.0031	.3406	-.0883	.0484	.0168

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS36)

ALPHAL(7) = 6.259 BETAL (2) = -1.818

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0041	-.1847			-.0762	.0000
270.000	-.1216	-.0747	-.0183	-.0372	.0142	.0201
315.000	-.0005	-.1141			.1301	.1882

ALPHAL(7) = 6.260 BETAL (3) = .274

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7248	.4140	.3829	-.0142	.0263	.0023	-.0394	-.0173	.0227	.0006	.0091	.4082	.2531	.2763	-.1285
45.000		.3022	.2979	-.0992	-.0718	-.0351	-.0524	-.0684	-.0375	-.0240	.0104				
90.000		.2129	.2195	-.1348	-.1271	-.1560	-.1187	-.1298	-.0105	-.0259	.2088		.0082	-.0137	
135.000		.1757	.1391	-.1658	-.1651	-.0780	-.0895	-.0102	.0012	-.0043	.1895				
180.000	1.7248	.1361	.0750	-.1576	-.1313	-.1329	-.0739	.0337	-.0014	.0058	.3211	[illegible]	.0000	.0569	-.0533
225.000		.1397	.3454	-.1036	-.2080	-.3124	-.0534	-.0332	-.0191	.0402	[illegible]				
270.000		.0000	.8876	[illegible]	-.2142	-.2776	-.0183	.0672	.0202	-.0119	.3374	[illegible]	.3299	.3224	-.2449
315.000		.4001	.5774	[illegible]	.1557	-.0817	-.0336	.0568	.0376	.0173	[illegible]				

X/LS	.8102	.8661	[illegible]	.9130	.9344	.9565
PHI						
.000	.1952	-.0670	[illegible]	[illegible]	[illegible]	.2734
45.000	.1269	-.0218			.2708	.2955
90.000	.1007	.0397	.1947	[illegible]	.1534	.1905
135.000	.2090	-.0293			[illegible]	.2841
180.000	.2421	-.0374	.2393	-.0876	.0231	.0656
225.000	.0052	-.1557			[illegible]	.0000
270.000	-.1255	-.0764	.0173	[illegible]	[illegible]	.0534
315.000	.0176	-.1121			.1496	.1996

ALPHAL(7) = 6.239 BETAL (4) = 2.375

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6572	.3823	.3752	-.0193	[illegible]	-.0126	-.0456	.0002	.0019	-.0236	-.0004	.4146	.2391	.2398	-.1359
45.000		.2493	.2489	-.1215	[illegible]	-.0623	-.0777	-.0881	-.0647	-.0544	.1602				
90.000		.1650	.1709	-.1558	[illegible]	-.1745	-.1242	-.1248	-.0131	-.0308	.1851		.0337	-.0464	
135.000		.1323	.1013	-.1823	-.1797	-.0843	-.0959	.0090	-.0030	-.0177	.1645				
180.000	1.6572	.0977	.0565	[illegible]	-.1311	-.1515	-.0501	.0188	-.0171	.0339	.2897	.5000	.0000	-.0255	-.0836
225.000		.1094	.3123	-.1165	-.2183	-.2958	-.0550	-.0475	-.0344	.0608	.3432				

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS36)

ALPHAL(7) = 6.239 BETAL (4) = 2.375

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.8783	.2070	-.2290	-.2861	.0171	.0853	-.0004	.0366	.2953	.5404	.2[illegible]3	.2963	-.2529
315.000		.3781	.4815	.0675	.1424	-.0732	-.0780	.0785	.0281	.0042	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1578	-.0714	.1546	-.0074	.2462	.3137
45.000	.1294	-.0367			.2432	.2504
90.000	.0804	.0253	.1819	.0397	.1449	.1342
135.000	.1523	-.0588			.2082	.2218
180.000	.1916	-.0753	.1546	-.0720	.0092	.0458
225.000	-.0195	-.1370			.0978	.0000
270.000	-.1276	-.0760	.0105	-.0233	.0121	.0173
315.000	.0029	-.1133			.1442	.1986

ALPHAL(7) = 6.214 BETAL (5) = 4.432

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5998	.3512	.3612	-.0413	.0057	-.0216	-.0387	-.0075	-.0199	-.0398	-.0058	.4440	.2028	.2781	-.1494
45.000		.2083	.2099	-.1359	-.1052	-.0842	-.0999	-.1071	-.0883	-.0895	.1017				
90.000		.1261	.1293	-.1721	-.1633	-.1879	-.1242	-.0990	-.0101	-.0339	.1190		-.0446	-.0485	
135.000		.0977	.0765	-.1895	-.1856	-.0897	-.0779	.0012	-.0081	-.0247	.1895				
180.000	1.5998	.0621	.0448	-.1558	-.1380	-.1532	-.0604	.0197	-.0257	.0269	.2565	.5674	.0000	-.0123	-.1409
225.000		.0833	.3084	-.1214	-.2327	-.2294	-.0792	-.0176	-.0385	.0602	.3247				
270.000		.0000	.8801	.2242	-.2168	-.2751	-.1110	.0323	-.0466	.0105	.3120	.5584	.3373	.3351	-.3016
315.000		.3586	.4445	.0621	.1383	-.0627	-.0306	.0826	.0321	-.0127	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1350	-.0889	.1313	-.0095	.2339	.2926
45.000	.1295	-.0756			.2335	.2342
90.000	.0720	-.0010	.1758	.0207	.1099	.0999
135.000	.1252	-.0707			.1184	.1239
180.000	.1976	-.0915	.1099	-.0517	.0379	.0771
225.000	-.0227	-.1402			.1498	.0000
270.000	-.1359	-.0964	.0093	-.0413	.0058	.0215
315.000	.0412	-.1272			.1132	.2139

ARC97-019 IA81 LVAP(ALL IR SEALED) SRM BOOSTER (RETS37) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.200 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = -4.000
RUDDER = .000 SPDBRK = .000

ALPHAL(1) = -8.981 BETAL (1) = -4.240

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9405	.2085	.1156	-.1393	-.0563	-.0640	-.1308	-.1234	-.1435	-.1550	-.1054	-.1160	-.0257	-.0197	-.1800
45.000		.2617	.2186	-.1057	-.1042	-.0555	-.0458	-.0828	-.1439	-.1858	-.0838				
90.000		.3160	.3213	-.0616	-.0339	-.0914	-.0819	-.0718	-.1462	-.2128	-.1209		.0312	.0504	
135.000		.4161	.3997	-.0251	-.0128	.0311	.0078	.0848	.0151	-.0085	.0530				
180.000	1.9405	.4975	.3940	-.0131	.0522	.0616	-.0056	.2170	.0793	.0236	.0871	.5695	.0000	.2054	-.1440
225.000		.4588	.5424	.1430	.1584	-.0446	.0680	.2307	.0763	.0347	.1137				
270.000		.0000	1.0097	.2595	.1771	-.2257	-.1164	-.0224	-.1051	-.0581	.1600	1.0053	.7419	.8976	-.2252
315.000		.1970	.3694	-.0436	-.1474	-.2664	-.1395	-.1131	-.0723	-.0200	.0000				

X/LS	.8102	.8651	.9130	.9130	.9344	.9565
PHI						
.000	-.0325	-.1390	.0040	-.1300	-.0513	-.0389
45.000	-.0092	-.1601			-.0650	-.0633
90.000	-.1214	-.1310	.1019	-.1703	-.0298	.0509
135.000	.0845	-.1243			.0784	.0990
180.000	.2585	-.1257	.1481	.1 7	.0875	.3569
225.000	.0296	-.2287			.0007	.0000
270.000	-.1350	-.1394	-.0553	-.0088	-.0446	-.0420
315.000	-.0765	-.1401			-.0 3	.0302

ALPHAL(1) = -8.948 BETAL (2) = - .

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	0335	.0950	.1118	.1397	.1956	.2794	3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8813	.1667	.0848	-.1535	-.0794	-.0939	-.1364	-.1213	-.1153	-.1085	-.1372	.0220	.0693	.1120	-.1865
45.000		.2156	.1738	-.1239	-.1220	-.0820	-.0610	-.0996	-.1525	-.1689	-.0845				
90.000		.2587	.2587	-.0852	-.0784	-.1122	-.0982	-.0882	-.1709	-.2270	-.1017		.0154	.0181	
135.000		.3597	.3358	-.0503	-.0396	.0137	-.0161	.0496	-.0227	-.0450	.0047				
180.000	1.8813	.4635	.3634	-.0262	.0328	.0390	-.0185	.1732	.0806	-.0109	.0705	.4628	.0000	.2376	-.1731
225.000		.4381	.4791	.1379	.1450	-.0543	.1350	.1 5	.0725	.0091	.0742				
270.000		.0000	.9971	.2742	.1647	-.2348	-.1187	-.0423	-.1085	-.0497	.2039	.9342	.6254	.6880	-.2256
315.000		.1681	.3331	-.0530	-.1662	-.2701	-.1649	-.1280	-.0668	-.0207	.0000				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS37)

ALPHAL(1) = -6.948 BETAL (2) = -2.144

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0219	-.1395	.1023	-.1459	-.0251	-.0466
45.000	-.0179	-.1542			-.0569	-.0636
90.000	-.1357	-.1248	.0739	-.1376	-.0419	.0177
135.000	.0792	-.1566			.0200	.0894
180.000	.2052	-.1455	.0672	-.0901	.0839	.3556
225.000	.0146	-.2004			.1914	.0000
270.000	-.1398	-.0977	-.0359	-.0650	-.0345	-.0269
315.000	-.0462	-.1398			.0953	.0689

ALPHAL(1) = -6.937 BETAL (3) = -.026

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8047	.1295	.0646	-.1684	-.0889	-.1070	-.1390	-.1186	-.0878	-.0606	-.0336	.2539	.0900	.1415	-.1796
45.000		.1726	.1457	-.1368	-.1351	-.0675	-.0710	-.1048	-.1460	-.1580	-.0768				
90.000		.2080	.2137	-.1048	-.1026	-.1311	-.1085	-.1008	-.1818	-.2163	-.0872		-.0194	-.0214	
135.000		.3093	.2975	-.0715	-.0626	-.0213	-.0402	.0026	-.0599	-.0815	-.0434				
180.000	1.8047	.4342	.3470	-.0260	.0169	.0206	.0448	.1211	.0588	-.0387	.0490	.3289	.0000	.2875	-.1923
225.000		.4195	.4526	.1274	.1351	-.0531	.1499	.1512	.0557	-.0245	.1946				
270.000		.0000	.9657	.2824	.1609	-.2402	-.1105	-.0530	-.0956	-.0555	.2081	.7283	.3296	.3689	-.2435
315.000		.1400	.3023	-.0581	-.1753	-.2705	-.1728	-.1336	-.0259	-.0232	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0782	-.1253	.0625	-.0824	.1211	.0562
45.000	-.0335	-.1622			-.0509	-.0456
90.000	-.1516	-.1273	.0508	-.1018	-.0406	-.0091
135.000	.0227	-.1970			-.0355	.0424
180.000	.1045	-.1850	-.0181	-.1115	.1017	.3047
225.000	-.0376	-.1776			.1542	.0000
270.000	-.1304	-.1066	-.0339	-.0811	-.0449	-.0329
315.000	-.0667	-.1320			.0230	.0363

ARC87-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS37)

ALPHAL(1) = -6.910 BETAL (41) = 2.116

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7461	.0992	.0461	-.1671	-.1123	-.1250	-.1423	-.1098	-.0606	-.0396	.0866	.2232	.0826	.1438	-.1486
45.000		.1332	.1144	-.1509	-.1484	-.0741	-.0833	-.1058	-.1386	-.1718	.0875				
90.000		.1686	.1736	-.1236	-.1243	-.1488	-.1161	-.1158	-.1851	-.1667	-.0210		-.0476	-.0251	
135.000		.2639	.2528	-.0891	-.0758	-.0526	-.0669	-.0492	-.0955	-.1387	-.0902				
180.000	1.7461	.3965	.3491	-.0158	.0043	.0050	.1240	.0714	.0211	-.0692	.0225	.4802	.0000	.1499	-.1947
225.000		.3979	.4572	.1179	.1292	-.0500	.1548	.1116	.0306	-.0254	.3065				
270.000		.0000	.9460	.2964	.1651	-.2432	-.0997	-.0679	-.0446	-.0659	.1908	.7606	.3780	.4142	-.2415
315.000		.1194	.2763	-.0627	-.1823	-.2712	-.1741	-.1419	-.0247	-.0301	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0563	-.1320	.0354	-.1055	.1090	.1726
45.000	.0183	-.1447			-.0195	-.0228
90.000	-.1032	-.1169	.0367	-.0864	-.0275	-.0352
135.000	-.0478	-.2161			-.0473	-.0024
180.000	.0366	-.2030	-.0526	-.0871	.1556	.3333
225.000	-.0086	-.1625			.1382	.0000
270.000	-.1196	-.1353	-.0315	-.0945	-.0704	-.0612
315.000	-.0814	-.1537			-.0011	.0334

ALPHAL(1) = -6.886 BETAL (51) = 4.[illegible]

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7290	.7290	.7360	.7370
PHI															
.000	1.6861	.0723	.0363	-.1668	-.1221	-.1442	-.1464	-.0940	-.0439	-.0342	.0761	.2226	.0973	.1727	-.1585
45.000		.1026	.0790	-.1594	-.1305	-.0799	-.0699	-.0996	-.1531	-.1819	-.0544				
90.000		.1268	.1261	-.1396	-.1412	-.1659	-.1177	-.1237	-.1605	-.1333	-.0173		-.0895	-.0524	
135.000		.2149	.2048	-.1081	-.0977	-.0716	-.0622	-.0896	-.1411	-.1795	-.1279				
180.000	1.6861	.3595	.3457	-.0197	-.0187	-.0103	.1047	.0259	-.0176	-.0672	.0292	.3419	.0000	.0979	-.2256
225.000		.3774	.4342	.1018	.1218	-.0145	.2539	.0829	.0009	-.0200	.2370				
270.000		.0000	.9006	.3119	.1650	-.2463	-.0919	-.0853	-.0544	-.0628	.1044	.6611	.3652	.3581	-.2414
315.000		.1070	.2351	-.0656	-.1817	-.2698	-.1709	-.1398	-.0136	-.0318	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0666	-.1360	.0160	-.1075	.1030	.1713
45.000	.0076	-.1481			.0438	.0163
90.000	-.0615	-.1404	.0347	-.1025	-.0422	-.0479
135.000	-.1320	-.1290			-.0580	.0103
180.000	-.0175	-.1806	-.0195	-.0687	.1777	.1264

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS37)

ALPHAL(1) = -8.888 BETAL (5) = 4.215

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0389	-.1632			.0876	.0000
270.000	-.1257	-.1226	-.0262	-.0831	-.0573	-.0431
315.000	-.0781	-.1561			.0140	.0451

ALPHAL(2) = -4.755 BETAL (1) = -6.330

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9941	.2909	.1838	-.1061	-.0178	-.0204	-.0999	-.0795	-.0857	-.0865	.0426	.0812	-.0337	.0372	-.1414
45.000		.3403	.2992	-.0673	-.0616	-.0184	-.0047	-.0396	-.0884	-.1379	.0174				
90.000		.3923	.3877	-.0275	-.0089	-.0323	-.0196	-.0186	-.0515	-.1163	-.0496		.0799	.1130	
135.000		.4541	.4220	-.0092	.0017	.0396	.0387	.1059	.0891	.0426	.1149				
180.000	1.9941	.4886	.3662	-.0247	.0528	.0647	-.0148	.2363	.1169	.0781	.1405	.6151	.0000	.2197	-.1093
225.000		.4476	.5086	.1405	.1501	-.0676	.0203	.2311	.1146	.0463	.1690				
270.000		.0000	1.0386	.2711	.0947	-.1975	-.1141	-.0258	-.0702	-.0264	.1793	1.0358	.8912	1.0269	-.2123
315.000		.2757	.3728	.0080	-.0626	-.2218	-.1095	-.0752	-.0573	-.0194	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0291	-.1341	-.0221	-.1078	-.0201	-.0267
45.000	.0299	-.1148			.0079	.0834
90.000	-.1026	-.0945	.0175	-.1385	.0600	.1596
135.000	.1423	-.0761			.1856	.1800
180.000	.3542	-.0688	.2351	-.0386	.1471	.3179
225.000	.0689	-.2168			.0406	.0000
270.000	-.1235	-.1426	-.0346	-.1111	-.0227	-.0156
315.000	-.0830	-.1308			-.0069	-.0120

ALPHAL(2) = -4.756 BETAL (2) = -4.272

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8424	.2483	.1531	-.1219	-.0372	-.0444	-.1110	-.0798	-.0927	-.0573	.0435	.1051	-.0090	.0526	-.1383
45.000		.2918	.2532	-.0854	-.0817	-.0317	-.0243	-.0550	-.0992	-.1421	-.0322				
90.000		.3366	.3359	-.0488	-.0392	-.0637	-.0374	-.0374	-.0855	-.1408	-.0602		.0536	.0774	
135.000		.3959	.3754	-.0294	-.0189	.0088	.0082	.0917	.0461	.0154	.0706				
180.000	1.8424	.4445	.3418	-.0349	.0315	.0400	-.0308	.2063	.0811	.0346	.0990	.5887	.0000	.2165	-.1267
225.000		.4226	.4989	.1297	.1337	-.0791	-.0207	.2141	.0722	.0230	.1356				

ARC97-019 1A81 LVAP(ALLML SEALED) SRM BOOSTER (RETS37)

ALPHAL(2) = -4.756 BETAL (2) = -4.272

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	1.0309	.2767	.0868	-.2042	-.1383	-.0295	-.0972	-.0087	.2188	.9751	.7901	.9852	-.2181
315.000		.2443	.3563	-.0016	-.0804	-.2371	-.1212	-.0983	-.0662	-.0057	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0255	-.1164	-.0419	-.1313	.0249	-.0043
45.000	.0394	-.1242			.0010	.0334
90.000	-.1013	-.0944	-.0164	-.1294	.0403	.1326
135.000	.1044	-.1013			.1267	.1359
180.000	.2888	-.1043	.1693	-.0514	.1116	.3139
225.000	.0441	-.2173			.0570	.0000
270.000	-.1367	-.1269	-.0469	-.0808	-.0295	-.0289
315.000	-.0453	-.1383			.0222	-.0014

ALPHAL(2) = -4.728 BETAL (3) = -.049

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8023	.1663	.1053	-.1429	-.0854	-.0854	-.1289	-.0774	-.0466	-.0243	.1095	.1904	.0332	.1062	-.1418
45.000		.1950	.1738	-.1235	-.1169	-.0441	-.0499	-.0820	-.0882	-.0821	-.0362				
90.000		.2280	.2306	-.0931	-.0906	-.1038	-.0555	-.0574	-.1299	-.1518	-.0520		.0672	.0124	
135.000		.2880	.2804	-.0739	-.0696	-.0142	-.0404	.0288	-.0239	-.0556	-.0239				
180.000	1.8023	.3704	.2897	-.0614	-.0001	-.0004	-.0512	.1312	.0395	-.0309	.0570	.3532	.0000	.3090	-.1867
225.000		.3718	.3981	.1091	.1075	-.0939	.0761	.1423	.0388	-.0239	.2617				
270.000		.0000	.9839	.3119	.0832	-.2219	-.1437	-.0535	-.0831	-.0335	.2006	.7854	.4328	.4994	-.2359
315.000		.1832	.3526	-.0178	-.1123	-.2532	-.1309	-.1365	-.0289	-.0117	.0000				

X/LS	.6102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0293	-.1178	-.0418	-.0942	.0595	.0918
45.000	-.0004	-.1168			.0138	.0110
90.000	-.0708	-.1057	-.0198	-.0857	.0434	.0867
135.000	.0906	-.1608			.0064	.0684
180.000	.1392	-.1690	.0182	-.1047	.0729	.2478
225.000	-.0236	-.1841			.1411	.0000
270.000	-.1303	-.1076	-.0241	-.0726	-.0405	-.0249
315.000	-.0594	-.1352			.0143	.0115

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS37)

ALPHAL(2) = -4.673 BETAL (4) = 4.188

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8874	.1132	.0780	-.1495	-.1264	-.1198	-.1407	-.0814	-.0171	-.0251	.0931	.2583	.1135	.2038	-.1486
45.000		.1261	.1060	-.1502	-.1382	-.0710	-.0722	-.0741	-.0295	-.0235	-.0516				
90.000		.1462	.1439	-.1281	-.1280	-.1329	-.0705	-.0718	-.1132	-.0816	.0290		-.0352	-.0157	
135.000		.2006	.1884	-.1113	-.1018	-.0637	-.0800	-.0666	-.1005	-.1276	-.0499				
180.000	1.8874	.3064	.2675	-.0470	-.0260	-.0316	.0980	.0252	-.0222	-.1005	.0555	.3766	.0000	.0881	-.2094
225.000		.3328	.3757	.0862	.0868	-.0959	.0761	.0734	-.0179	-.0403	.1956				
270.000		.0000	.9682	.3492	.0773	-.2333	-.1063	-.0699	-.0445	-.0615	.0955	.7004	.3773	.4275	-.2368
315.000		.1518	.3318	-.0204	-.1152	-.2525	-.1279	-.1391	-.0218	-.0245	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0811	-.1041	.0349	-.0973	.0628	.1021
45.000	.0851	-.1106			.1179	.1097
90.000	-.0101	-.0844	.0109	-.0504	.0188	.0336
135.000	-.0050	-.1192			.0004	.0268
180.000	.0015	-.1618	-.0032	-.0531	.1418	.1168
225.000	-.0424	-.1516			.0746	.0000
270.000	-.1244	-.1202	-.0344	-.0793	-.0550	-.0307
315.000	-.0595	-.1536			.0070	.0854

ALPHAL(2) = -4.651 BETAL (5) = 8.272

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8143	.0833	.0634	-.1486	-.1108	-.1385	-.1410	-.0884	-.0174	-.0804	.0809	.2938	.0945	.1942	-.1471
45.000		.0869	.0710	-.1812	-.1483	-.0858	-.0810	-.0492	-.0145	-.0271	-.0483				
90.000		.1034	.0884	-.1437	-.1427	-.1434	-.0718	-.0848	-.0784	-.0791	.0526		-.0303	-.0220	
135.000		.1958	.1434	-.1257	-.1142	-.0892	-.0858	-.1099	-.1585	-.1398	.0487				
180.000	1.8143	.2798	.2749	-.0410	-.0456	-.0417	.0757	-.0040	-.0539	-.0870	.0705	.4804	.0000	.0011	-.2134
225.000		.3119	.3373	.0857	.0735	-.0827	.0898	.0354	-.0367	-.0413	.1757				
270.000		.0000	.9303	.3777	.0811	-.2349	-.0945	-.0873	-.0370	-.0559	.1310	.7361	.4490	.6590	-.2250
315.000		.1305	.3267	-.0243	-.1230	-.2499	-.1273	-.1276	-.0218	-.0308	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0842	-.1148	.0183	-.0989	.1187	.1090
45.000	.0801	-.1154			.1463	.1991
90.000	.0128	-.0773	.0262	-.0572	.0429	.0557
135.000	-.0340	-.1144			.0038	.0217
180.000	-.0018	-.1578	.0344	-.0703	.0728	.0452

ARC97-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS37)

ALPHAL(2) = -4.651 BETAL (5) = 6.272

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
225.000	-.0632	-.1528			.0222	.0000
270.000	-.1302	-.1282	-.0493	-.0858	-.0644	-.0472
315.000	-.0376	-.1555			.0153	.0866

ALPHAL(3) = -2.543 BETAL (1) = -6.318

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.0025	.3297	.2213	-.1033	-.0023	-.0050	-.0886	-.0440	-.0433	-.0557	.1036	.2044	.0287	.0697	-.1001
45.000		.3670	.3244	-.0593	-.0477	-.0043	.0069	-.0236	-.0463	-.0540	-.0220				
90.000		.3967	.3862	-.0296	-.0109	-.0086	.0276	.0138	-.0151	-.0560	.0370		.0975	.1257	
135.000		.4200	.3972	-.0270	-.0181	.0275	.0296	.0059	.0970	.0417	.1202				
180.000	2.0025	.4285	.3082	-.0565	.0059	.0361	-.0446	.2105	.1146	.0679	.1556	.5966	.0000	.2339	-.0968
225.000		.3984	.4452	.1106	.1018	-.1180	-.0164	.1856	.1036	.0364	.2239				
270.000		.0000	1.0536	.2811	.0183	-.1978	-.0312	-.0499	-.0779	-.0093	.3199	.9419	.9055	1.1234	-.2126
315.000		.3111	.3090	.0479	-.0027	-.1882	-.0620	-.0164	-.0752	-.0087	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0197	-.1079	-.1010	-.1401	-.0061	.0337
45.000	.0720	-.0967			.1349	.2127
90.000	-.0574	-.0429	.0018	-.0803	.1618	.2637
135.000	.1668	-.0493			.2410	.2658
180.000	.3652	-.0257	.2722	-.0309	.1625	.0970
225.000	.0931	-.2082			-.0132	.0000
270.000	-.1411	-.1257	-.0462	-.0912	-.0297	.0248
315.000	-.0576	-.1365			-.0386	-.0179

ALPHAL(3) = -2.538 BETAL (2) = -2.155

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8950	.2454	.1603	-.1275	-.0322	-.0499	-.1164	-.0526	-.0352	-.0187	.1401	.2010	.0318	.0831	-.1090
45.000		.2656	.2308	-.1020	-.0894	-.0407	-.0289	-.0556	-.0361	-.0162	-.0220				
90.000		.2861	.2745	-.0792	-.0651	-.0592	-.0072	-.0240	-.0559	-.0761	.0294		.0612	.0682	
135.000		.3149	.2861	-.0703	-.0628	-.0249	-.0134	.0655	.0317	-.0098	.0267				
180.000	1.8950	.3477	.2520	-.0799	-.0141	-.0137	-.0740	.1326	.0579	.0032	.0791	.5042	.0000	.2576	-.1295
225.000		.3457	.4272	.0909	.0715	-.1441	-.0746	.1608	.0516	-.0104	.1998				

ARC97-019 1A81 LVAP(ALUM. SEALED) SRM BOOSTER (RETS37)

ALPHAL(3) = -2.538 BETAL (2) = -2.155

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	1.0192	.3108	-.0045	-.2148	-.0717	-.0615	-.1039	-.0416	.3132	.8339	.7407	.8582	-.2249
315.000		.2527	.3474	.0314	-.0315	-.2075	-.0977	-.0467	-.0565	-.0061	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0304	-.1185	-.0162	-.0961	.0295	.0601
45.000	.0493	-.0770			.1215	.1945
90.000	-.0497	-.0672	.0048	-.0639	.1367	.2083
135.000	.1316	-.0961			.1337	.1501
180.000	.2533	-.1145	.1442	-.0603	.0854	.2006
225.000	.0385	-.2070			.1035	.0000
270.000	-.1520	-.0931	-.0271	-.0560	-.0169	-.0152
315.000	-.0339	-.1254			-.0271	.0048

ALPHAL(3) = -2.521 BETAL (3) = 2.069

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7230	.7360	.7370
PHI															
.000	1.7577	.1801	.1209	-.1428	-.0642	-.0823	-.1302	-.0473	-.0009	-.0098	.1232	.2986	.0969	.1114	-.1159
45.000		.1785	.1672	-.1269	-.1158	-.0711	-.0579	-.0648	-.0108	-.0035	.1026				
90.000		.1924	.1537	-.1116	-.1024	-.0935	-.0329	-.0417	-.0717	-.0496	.0877		.0243	.0478	
135.000		.2179	.2162	-.1001	-.0961	-.0754	-.0611	.0152	-.0247	-.0655	.0688				
180.000	1.7577	.2772	.2149	-.0968	-.0336	-.0435	-.0769	.0537	.0038	-.0615	.0632	.6463	.0000	.1499	-.1801
225.000		.2990	.3249	.0756	.0533	-.1510	.0379	.1086	.0098	-.0711	.3238				
270.000		.0000	.9920	.3563	.0098	-.2244	-.0796	-.0759	-.0943	-.0539	.1683	.8568	.5289	.5909	-.2305
315.000		.2040	.3845	.0220	-.0497	-.2144	-.0993	-.0585	-.0774	-.0439	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0508	-.1125	-.0218	-.1040	.0686	.1039
45.000	.1177	-.1013			.1202	.1357
90.000	-.0115	-.0746	.0117	-.0718	.1275	.1626
135.000	.1209	-.1372			.0542	.0801
180.000	.1008	-.1714	.0449	-.0665	.0482	.1580
225.000	-.0045	-.1632			.0788	.0000
270.000	-.1296	-.1184	-.0247	-.0912	-.0675	-.0588
315.000	-.0786	-.1355			-.0583	.0055

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RE.3371)

ALPHAL(3) = -2.493 BETAL (4) = 5.230

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6251	.1246	.0965	-.1475	-.0820	-.1179	-.1355	-.0523	-.0125	-.0227	.0211	.3242	.1385	.1352	-.1521
45.000		.1061	.0968	-.1537	-.1320	-.1057	-.0848	-.0361	.0099	-.0114	-.0174				
90.000		.1144	.1084	-.1471	-.1373	-.1195	-.0490	-.0460	-.0352	-.0409	.0744		-.0065	-.0018	
135.000		.1408	.1302	-.1340	-.1231	-.0820	-.0934	-.0661	-.0890	-.0877	.0933				
180.000	1.6251	.2309	.1974	-.0804	-.0449	-.0676	.0763	-.0042	-.0645	-.0890	.1152	.5218	.0000	.0303	-.2087
225.000		.2712	.3103	.0722	.0416	-.1481	.0359	.0395	-.0482	-.0569	.1729				
270.000		.0000	.5345	.4167	.0130	-.2316	-.0720	-.0986	-.0701	-.0671	.1557	.7914	.5159	.8029	-.2269
315.000		.1723	.3970	.0103	-.0659	-.2138	-.1026	-.0694	-.0801	-.0572	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1279	-.1094	.0508	-.0828	.1380	.1904
45.000	.0756	-.0879			.1157	.1532
90.000	.0478	-.0669	.0416	-.0397	.0601	.0778
135.000	.0346	-.1015			.0285	.0464
180.000	.0419	-.1255	.0397	-.0347	.0545	.0574
225.000	-.0438	-.1502			.0268	.0000
270.000	-.1212	-.1245	-.0505	-.0831	-.0524	-.0405
315.000	-.0639	-.1515			.0403	.1423

ALPHAL(4) = -.347 BETAL (1) = -6.285

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	[illegible]	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.0102	.3702	[illegible]	[illegible]	[illegible]	.0182	-.072	-.0239	-.0005	-.0132	.1697	.2600	.0468	.0491	[illegible]
45.000		.3957	.3509	[illegible]	[illegible]	.0113	.0219	-.0067	-.0064	.0021	-.0178				
90.000		.4026	.3924	-.0276	[illegible]	.0016	.0456	.0202	.0212	.0101	.0884		.1101	.1383	
135.000		.4032	.3576	-.0397	-.0310	.0136	.0219	-.0150	.0794	.0492	.0990				
180.000	2.0102	.3828	.2528	-.0782	[illegible]	.0129	-.0696	.1463	.0954	.0489	.1631	.6025	.0000	.2408	-.0736
225.000		.3622	.4265	.0811	[illegible]	-.1507	-.0140	.1305	.0791	.0393	.3516				
270.000		.0000	1.0414	.2792	-.0289	[illegible]	-.0018	-.0061	-.0958	-.0367	.2832	.9915	.9242	1.2626	-.2122
315.000		.3546	.4324	.0791	.0613	-.1535	-.0693	.0278	-.0483	-.0195	.0000				

X/LS	.8102	.8661	.9120	.9130	[illegible]	.9565
PHI						
.000	.0528	-.1252	-.1269	[illegible]	.0165	.0786
45.000	.0952	-.0870			.2701	.3908
90.000	.0296	-.0240	.0208	[illegible]	.2612	.3306
135.000	.2099	-.0039			.2625	.2600
180.000	.3667	.0069	.3181	-.0161	.1852	.1192

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ARC87-013 1A81 LVAP(ALLML SEALED) SRM BOOSTER (RETS37)

ALPHAL(4) = -.347 BETAL (1) = -6.285

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.1031	-.1901			-.0556	.0000
270.000	-.1337	-.1138	-.0213	-.0852	-.0408	-.0387
315.000	-.0557	-.1239			-.0727	-.0079

ALPHAL(4) = -.350 BETAL (2) = -4.240

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9574	.3340	.2293	-.0983	-.0437	-.0055	-.0874	-.0211	-.0086	-.0005	.1613	.2426	.0308	.0192	-.0997
45.000		.3393	.3118	-.0651	-.0543	-.0091	-.0056	-.0218	-.0092	.0005	-.0055				
90.000		.3460	.3413	-.0495	-.0375	-.0286	.0227	.0039	-.0017	-.0042	.0935		.0886	.1045	
135.000		.3453	.3125	-.0589	-.0536	-.0091	-.0043	-.0224	.0636	.0244	.0563				
180.000	1.9574	.3400	.2322	-.0929	-.0454	-.0104	-.0848	.1480	.0796	.0337	.1308	.5202	.0000	.2227	-.0347
225.000		.3343	.4039	.0753	.0354	-.1683	-.0340	.0986	.0550	.0078	.2850				
270.000		.0000	1.0148	.2928	-.0411	-.2010	-.0218	-.0426	-.1052	-.0683	.2827	.9260	.8600	1.1403	-.2192
315.000		.3294	.4009	.0723	.0387	-.1712	-.0759	.0016	-.0547	-.0221	.0060				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0418	-.1256	-.1204	-.1296	.0152	.0837
45.000	.0206	-.1035			.2605	.3762
90.000	.0135	-.0372	.0102	.0247	.2080	.2677
135.000	.1689	-.0510			.2437	.2423
180.000	.3481	-.0246	.2598	-.0373	.1500	.0916
225.000	.0758	-.2101			.0079	.0000
270.000	-.1434	-.1124	-.0459	-.0646	-.0125	-.0119
315.000	-.0642	-.1263			-.0610	-.0106

ALPHAL(4) = -.349 BETAL (3) = -.048

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0850	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8266	.2551	.1797	-.1177	-.0400	-.0413	-.0996	-.0246	-.0029	.0018	.1397	.2894	.0567	.1268	-.1063
45.000		.2419	.2250	-.1002	-.0506	-.0478	-.0335	-.0424	.0079	.0134	.1139				
90.000		.2415	.2392	-.0933	-.0827	-.0653	-.0039	-.0292	-.0190	-.0071	.0690		.0557	.0713	
135.000		.2452	.2230	-.0942	-.0896	-.0485	-.0325	.0510	.0114	-.0141	.0907				
180.000	1.8266	.2637	.1833	-.1080	-.0449	-.0478	-.1036	.0842	.0303	-.0147	.1199	.4003	.0000	.3611	-.1085
225.000		.2802	.3596	.0616	.0159	-.1846	-.0582	.0872	.0294	-.0476	.3082				

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS37)

ALPHAL(4) = -.349 BETAL (3) = -.048

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.9949	.3352	-.0363	-.2148	-.0444	-.0808	-.1039	-.0721	.2485	.8570	.5767	.6395	-.2272
315.000		.02718	.3813	.0628	.0238	-.1881	-.0917	-.0171	-.0181	-.0398	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0252	-.0946	-.0297	-.0726	.0471	.0722
45.000	.0716	-.0870			.1193	.1662
90.000	.0006	-.0626	.0158	-.0402	.1972	.2569
135.000	.2319	-.0797			.1869	.1769
180.000	.2362	-.1302	.1302	-.0792	.0541	.0911
225.000	.0233	-.2114			.1585	.0000
270.000	-.1276	-.1141	.0016	-.0729	-.0350	-.0323
315.000	-.0834	-.1263			-.0515	-.0150

ALPHAL(4) = -.344 BETAL (4) = 4.147

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP IJ

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7104	.2021	.1477	-.1298	-.0714	-.0790	-.1202	-.0362	-.0112	-.0198	.1308	.2573	.0658	.1455	-.1313
45.000		.1583	.1530	-.1334	-.1225	-.0938	-.0797	-.0553	.0178	-.0035	.0610				
90.000		.1537	.1540	-.1281	-.1205	-.0952	.0299	-.0247	-.0112	-.0052	.0806		.0346	.0585	
135.000		.1577	.1537	-.1268	-.1202	-.0942	-.0737	.0119	-.0334	-.0457	.1417				
180.000	1.7104	.1964	.1504	-.1275	-.0734	-.0830	-.0942	.0201	-.0341	-.0796	.1437	.5691	.0000	.1378	-.1820
225.000		.2319	.3426	.0436	-.0012	-.1914	.0491	.0412	-.0338	-.0883	.1869				
270.000		.0000	1.0053	.3683	-.0566	-.2237	-.0362	-.1040	-.0657	-.0713	.0786	.7842	.3890	.4761	-.2414
315.000		.2349	.3811	.0509	.0136	-.1897	-.0757	-.0200	-.0258	-.0431	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0638	-.0950	.0242	-.0400	.0671	.1033
45.000	.0602	-.0864			.1683	.1620
90.000	.0207	-.0600	.0401	-.0476	.1910	.2220
135.000	.1591	-.1207			.0717	.0901
180.000	.0914	-.1188	.0349	-.0818	.0457	.1147
225.000	-.0165	-.1593			.1050	.0000
270.000	-.1214	-.1108	-.0245	-.0727	-.0469	-.0247
315.000	-.0732	-.1362			.0124	.0611

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS37)

ALPHAL(4) = -.324 BETAL (5) = 6.220

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5067	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8534	.1720	.1383	-.1323	-.0557	-.0959	-.1274	-.0442	-.0225	-.0301	.1078	.2890	.1051	.1462	-.1437
45.000		.1214	.1141	-.1495	-.1373	-.0873	-.1004	-.0508	.0133	-.0115	.0734				
90.000		.1171	.1128	-.1436	-.1347	-.1103	-.0373	-.0252	-.0055	-.0102	.0957		.0193	.0660	
135.000		.1214	.1178	-.1442	-.1330	-.0955	-.0906	-.0140	-.0537	-.0553	.1119				
180.000	1.8534	.1793	.1383	-.1304	-.0610	-.0936	.0225	-.0218	-.0653	-.0892	.1338	.5838	.0000	.0398	-.2030
225.000		.2268	.3520	.0410	-.0018	-.1880	.0248	.0176	-.0583	-.0666	.1335				
270.000		.0000	.9881	.3469	-.0613	-.2251	-.0508	-.1156	-.0702	-.0732	.0844	.8251	.5308	.7805	-.2365
315.000		.2177	.3949	.0453	.0048	-.1892	-.0774	-.0094	-.0391	-.0517	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0862	-.1062	.0504	-.0600	.1241	.2003
45.000	.0683	-.0826			.1389	.1431
90.000	.0514	-.0566	.0665	-.0646	.1642	.1619
135.000	.0942	-.1075			.0435	.0709
180.000	.0673	-.1059	.0646	-.0324	.0548	.0540
225.000	-.0346	-.1516			.0609	.0000
270.000	-.1236	-.1174	-.0439	-.0742	-.0525	-.0312
315.000	-.0783	-.1401			.0248	.1088

ALPHAL(5) = 1.831 BETAL (1) = -6.243

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5067	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.0070	.4194	.3054	-.0679	-.0165	.0430	-.0316	-.0668	.0305	.0188	.1718	.2736	.0452	.0299	-.1177
45.000		.4187	.3837	-.0368	-.0211	.0364	.0295	.0087	.0124	.0328	.0271				
90.000		.4018	.3863	-.0313	-.0148	-.0132	.0238	.0137	.0259	.0458	.1190		.1097	.1223	
135.000		.3740	.3237	-.0571	-.0495	-.0168	.0081	-.0336	.0621	.0325	.1300				
180.000	2.0070	.3311	.2205	-.1030	-.0141	-.0108	-.0848	.0960	.0648	.0358	.2136	.8017	.0000	.2494	-.0019
225.000		.3187	.3830	.0523	.0007	-.1867	-.0283	.0885	.0488	.0787	.3431				
270.000		.0000	1.0130	.2887	-.0578	-.1992	-.0104	.0761	-.0661	-.0314	.2508	1.1345	.8742	.7830	-.2251
315.000		.3978	.4898	.1085	.1283	-.1145	-.1254	.0490	.0158	.0032	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0822	-.1258	-.0678	-.0970	.0568	.1353
45.000	.1499	-.0190			.2528	.3312
90.000	.0548	-.0041	.0523	.0537	.3586	.4213
135.000	.2748	.0515			.3140	.3184
180.000	.3279	.0164	.3745	-.0085	.2010	.1244

ARC97-019 IA81 LVAP(ALLHL SCALED) SRM BOOSTER (RETS37)

ALPHAL(5) = 1.821 BETAL (1) = -6.243

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.1103	-.1476			-.0973	.0000
270.000	-.1245	-.0930	.0173	-.0745	-.0412	-.0365
315.000	-.0924	-.1169			-.0425	.0168

ALPHAL(5) = 1.806 BETAL (2) = -2.099

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1950	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9053	.3441	.2493	-.0907	-.0312	-.0054	-.0671	-.0506	.0190	.0075	.1124	.4384	.0874	.0804	-.1098
45.000		.3115	.2902	-.0784	-.0666	-.0249	-.0156	-.0252	-.0005	.0255	.0678				
90.000		.2882	.2792	-.0787	-.0656	-.0587	-.0077	-.0269	.0065	.0185	.1144		.0618	.0761	
135.000		.2722	.2363	-.0944	-.0901	-.0448	-.0279	-.0219	.0288	.0095	.0524				
180.000	1.9053	.2603	.1638	-.1231	-.0646	-.0524	-.1107	.0999	.0301	.0052	.1313	.5381	.0000	.2208	-.0738
225.000		.2722	.3191	.0389	-.0229	-.2078	-.0582	.0398	.0155	-.0003	.2642				
270.000		.0000	.0745	.2981	-.0725	-.2031	-.0401	.0269	-.0388	-.0388	.2582	.7685	.6125	.5286	-.2281
315.000		.3468	.4226	.0944	.0984	-.1417	-.1305	.0180	.0112	-.0085	.0000				

X/LS	.8102	.8661	9120	.9130	9344	.9565
PHI						
.000	.0901	-.0762	.0073	-.0211	.0786	.1245
45.000	.0751	-.0752			.2127	.2586
90.000	.0508	-.0233	.0581	.0093	.2728	.3322
135.000	.1992	-.0226			.2543	.2527
180.000	.3411	-.0256	.2411	-.0287	.1513	.0894
225.000	.0214	-.2137			.0941	.0050
270.000	-.1086	-.1023	-.0056	-.0532	.0076	.0011
315.000	-.0851	-.1145			.0940	.0188

ALPHAL(5) = 1.795 BETAL (3) = 2.113

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7702	.2793	.2134	-.1031	-.0299	-.0352	-.0919	-.0478	-.0022	-.0166	.1434	.2738	.1097	.1696	-.1196
45.000		.2211	.2144	-.1084	-.1000	-.0673	-.0667	-.0535	.0067	.0088	.0987				
90.000		.1978	.1935	-.1128	-.1059	-.0980	-.0370	-.0532	-.0039	.0084	.1051		.0335	.0415	
135.000		.1845	.1659	-.1241	-.1168	-.0745	-.0535	.0288	-.0006	-.0139	.1880				
180.000	1.7702	.1848	.1276	-.1380	-.0639	-.0861	-.1084	.0414	.0001	-.0479	.1614	.5853	.0000	.2119	-.1412
225.000		.2151	.3102	.0247	-.0408	-.2193	-.0297	.0305	-.0098	-.0539	.2450				

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS37)

ALPHAL(5) = 1.795 BETAL (3) = 2.113

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.9639	.3325	-.0639	-.2134	-.0396	.0252	-.0152	-.0482	.2290	.6779	.4061	.4490	-.2461
315.000		.3049	.3471	.0815	.0865	-.1554	-.1170	.0202	.0071	-.0265	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0525	-.0874	-.0006	-.0449	.0837	.1572
45.000	.0645	-.0775			.2197	.2121
90.000	.0076	-.0425	.0513	-.0181	.2012	.2501
135.000	.2574	-.0802			.2012	.1829
180.000	.1959	-.0947	.1754	-.0939	.0159	.0646
225.000	.0002	-.1866			.1449	.0000
270.000	-.1251	-.0990	.0305	-.0611	-.0231	-.0168
315.000	-.0861	-.1258			-.0039	.0319

ALPHAL(5) = 1.788 BETAL (4) = 6.262

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1119	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6423	.2299	.1936	-.0943	-.0487	-.0699	-.1097	-.0317	-.0418	-.0344	.0682	.3379	.1083	.1293	-.1334
45.000		.1387	.1347	-.1399	-.1314	-.0821	-.1081	-.0800	.0077	-.0094	.1029				
90.000		.1167	.1067	-.1475	-.1373	-.1202	-.0499	-.0122	.0024	-.0114	.0926		.0190	.0766	
135.000		.1064	.1011	-.1473	-.1311	-.1066	-.0773	-.0023	-.0254	-.0374	.1479				
180.000	1.6423	.1217	.0951	-.1509	-.0950	-.1155	-.0231	-.0056	-.0568	-.0574	.1182	.6027	.0000	.0350	-.1804
225.000		.1690	.3437	.0098	-.0491	-.2154	-.0125	-.0042	-.0528	-.0544	.1669				
270.000		.0000	.9605	.3810	-.0901	-.2200	-.0218	.0212	-.0371	-.0601	.2259	.6173	.4480	.4731	-.2450
315.000		.2711	.3487	.0653	.0736	-.1583	-.0724	.0328	-.0231	-.0471	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0963	-.0998	.0942	-.0431	.1683	.2503
45.000	.0823	-.0657			.1759	.1772
90.000	.0176	-.0419	.0746	-.0369	.1732	.1938
135.000	.1427	-.0968			.0680	.1018
180.000	.1123	-.1015	.0909	-.0541	.0330	.0557
225.000	-.0333	-.1428			.0877	.0000
270.000	-.1167	-.1005	-.0408	-.0703	-.0478	-.0274
315.000	-.0863	-.1318			.0439	.1238

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RET537)

ALPHAL(6) = 4.030 BETAL (1) = -6.178

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5367	.6995	.7280	.7290	.7360	.7370
PHI															
.000	1.9993	.4377	.3534	-.0488	.0175	.0688	-.0146	-.0488	.0426	.0380	.2104	.3116	.1187	.1392	-.1031
45.000		.4356	.4074	-.0210	-.0088	.0438	.0320	.0143	.0159	.0320	.0940				
90.000		.3825	.3769	-.0369	-.0196	-.0390	-.0219	-.0225	-.0183	.0413	.1726		.0895	.0763	
135.000		.3358	.2901	-.0723	-.0690	-.0298	-.0090	-.0557	.0436	.0221	.2210				
180.000	1.9993	.2881	.1759	-.1186	-.0344	-.0325	-.1031	.0653	.0599	.0592	.2903	.5460	.0000	.2206	-.0558
225.000		.2819	.3232	.0208	-.0400	-.2255	-.0446	-.0015	.0158	.0489	.3188				
270.000		.0000	.9771	.2487	-.0709	-.1758	-.0281	.1175	.0420	.0251	.2386	.7911	.4638	.4841	-.2127
315.000		.4395	.5381	.1402	.1836	-.0755	-.1261	.0482	.0449	.0317	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0746	-.0975	-.0225	-.0728	.1192	.2191
45.000	.1600	-.0152			.4126	.4617
90.000	.1316	.0897	.0797	.1264	.2796	.3246
135.000	.2618	.0045			.3726	.3480
180.000	.3624	.0130	.4382	.0044	.2234	.1477
225.000	.0173	-.1610			-.1281	.0000
270.000	-.1238	-.0817	.0324	-.0646	-.0294	-.0283
315.000	-.0880	-.1110			-.0117	.0456

ALPHAL(6) = 4.022 BETAL (2) = -4.131

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5887	.6995	.7280	.7290	.7360	.7370
PHI															
.000	1.9504	.4307	.3299	-.0570	.0177	.0441	-.0303	-.0484	.0386	.0238	.1727	.3375	.1342	.1349	-.1094
45.000		.3782	.3547	-.0[illegible]	.0098	.0145	.0012	-.0050	.0015	.0307	.0327				
90.000		.3269	.3219	-.[illegible]	-.[illegible]27	-.0647	-.0399	-.0382	-.0060	.0291	.1638		.0793	.0584	
135.000		.2879	.2468	-.0990	-.[illegible]851	-.0446	-.0267	-.0688	.0307	.0089	.1816				
180.000	1.9504	.2482	.1535	-.1311	-.0535	-.0502	-.1078	.0575	.0397	.0456	.2948	.5021	.0000	.2355	-.0472
225.000		.2525	.2902	.0139	-.0528	-.2390	-.0628	-.0192	.0082	.0367	.3372				
270.000		.0000	.9598	.2585	-.0834	-.1893	-.0441	.1063	.0364	.0261	.2657	.7861	.4336	.4500	-.2170
315.000		.4166	.4785	.1329	.1688	-.0971	-.1249	.0354	.0390	.0281	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0938	-.0687	.0033	-.0506	.1219	.2103
45.000	.1218	-.0316			.3738	.4368
90.000	.1084	.0545	.0963	.0884	.2317	.2688
135.000	.2819	.0226			.3943	.3500
180.000	.3049	.0197	.3943	-.0207	.1620	.0978

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS37)

ALPHAL(6) = 4.0[illegible] BETAL (2) = -4.131

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0170	-.1565			-.0728	.0000
270.000	-.1184	-.0829	-.0112	-.0654	-.0259	-.0280
315.000	-.0875	-.1164			.0073	.0537

ALPHAL(6) = 3.892 BETAL (3) = .053

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8210	.3604	.2797	-.0763	-.0045	.0024	-.0602	-.0543	.0203	-.0055	.0491	.3260	.1464	.1375	- 1387
45.000		.2791	.2688	-.0832	-.0734	-.0514	-.0412	-.0438	-.0195	.0038	-.0092				
90.000		.2298	.2292	-.0987	-.0928	-.1073	-.0576	-.0720	-.0057	.0130	.1299		.0426	.0214	
135.000		.2037	.1713	-.1201	-.1211	-.0550	-.0490	-.0205	.0077	.0011	.19[illegible]				
180.000	1.8210	.1789	.1002	-.1516	-.0771	-.0905	-.1190	.0557	.0187	-.0138	.2713	.5272	.0000	.1649	-.0818
225.000		.2004	.2506	-.0074	-.0892	-.2554	-.0894	.0035	-.0022	-.0141	.3296				
270.000		.0000	.9269	.2823	-.1050	-.2101	-.0980	.0879	.0355	-.0068	.257[illegible]	.6546	.3630	.3012	-.2485
315.000		.3686	.4333	.1092	.1440	-.1078	-.1072	.0327	.0398	-.0062	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0968	-.0760	.0720	-.0292	.1361	.2179
45.000	.0922	-.0175			.2429	.2928
90.000	.0803	.0095	1223	.0322	.1834	.1844
135.000	.2609	-.0286			.2905	.2678
180.000	.2422	-.0204	.2836	-.0627	.0828	.0257
225.000	.0239	-.1568			-.0062	.0000
270.000	-.1276	-.0894	-.0088	-.0496	-.0003	-.0078
315.000	-.0944	-.1148			.0470	.0934

ALPHAL(6) = 3.968 BETAL (4) = 4.207

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7068	.3119	.2614	-.0603	-.0273	-.0290	-.0740	-.0431	-.0205	-.0445	.0042	.3110	.1544	.1739	-.1362
45.000		.1954	.1940	-.1181	-.1068	-.0671	-.0874	-.0966	-.0323	-.0200	.0902				
90.000		.1491	.1419	-.1339	-.1307	-.1363	-.0723	-.0769	-.0051	-.0101	.1190		.0035	.0164	
135.000		.1290	.1022	-.1514	-.1422	-.0694	-.0674	.0215	-.0147	-.0246	.1739				
180.000	1.7068	.1149	.0732	-.1514	-.1298	-.1245	-.0707	.0126	-.0283	-.0643	.1851	.5745	.0000	.0586	-.1316
225.000		.1554	.3133	-.0185	-.1130	-.2614	-.0438	-.0070	-.0332	-.0372	.2675				

ARC97-019 IA81 LVAP(ALCHL SEALED) SRM BOOSTER (RETS37)

ALPHAL(6) = 3.963 BETAL (4) = 4.207

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7380	.7370
PHI															
270.000		.0000	.3275	[illegible]	-.1074	-.2236	-.0231	.0700	.0038	-.0531	.2278	.6079	.3152	.2968	-.2512
315.000		.3367	.4023	.0856	.1263	-.1097	-.0968	.0589	.0128	-.0318	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1125	-.0802	.0958	-.0173	.1744	.2590
45.000	.0751	-.0558			.2230	.2322
90.000	.0246	-.0099	.1207	.0109	.1381	.1512
135.000	.1558	-.0822			.1587	.1503
180.000	.1722	-.0589	.1485	-.0924	.0066	.0698
225.000	-.0085	-.1311			.1240	.0000
270.000	-.1156	-.0979	[illegible]	-.0498	-.0196	.0017
315.000	-.0874	-.1170			.0702	.1615

ALPHAL(6) = 3.961 BETAL (5) = 5.281

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1116	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6367	[illegible]	[illegible]	[illegible]	-.0433	[illegible]	-.0859	-.0339	-.0403	-.0191	-.0200	.3833	.1254	[illegible]	-.1379
45.000		[illegible]	[illegible]	[illegible]	-.1225	[illegible]	-.1137	-.1095	-.0226	-.0253	.0717				
90.000		[illegible]	.1019	-.1492	[illegible]	[illegible]	-.0754	-.0455	-.0170	-.0296	.1312		-.0028	.0276	
135.000		.0949	.0722	[illegible]	-.1494	[illegible]	-.0770	.0073	-.0282	-.0345	.1577				
180.000	1.6367	.0850	.0572	-.1523	-.1159	[illegible]	-.0409	-.0104	-.0409	-.0405	.1607	.5759	.0020	-.0084	-.1567
225.000		.1312	.3243	[illegible]	[illegible]	[illegible]	[illegible]	-.0147	[illegible]	-.0418	.2550				
270.000		[illegible]	.9065	.3206	-.1205	-.2319	[illegible]	[illegible]	-.0259	-.0544	.2387	.5958	.3500	.3113	-.2498
315.000		.3173	.3922	.0670	.1199	[illegible]	-.0826	.0732	-.0041	-.0421	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0897	-.0858	.1060	-.0286	.1956	.2603
45.000	.0943	-.0736			.1972	.2166
90.000	.0441	-.0198	.1185	.0121	.1075	.1178
135.000	.1191	-.0753			.0909	.1084
180.000	.1187	-.0920	.0852	-.0548	.0253	.0581
225.000	-.0385	-.1399			.1017	.0000
270.000	-.1219	-.0999	-.0076	-.0545	-.0236	.0002
315.000	-.0579	-.1147			.0591	.1660

ARC97-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS37)

ALPHAL(7) = 6.213 BETAL (1) = -4.098

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9289	.4821	.3820	-.0285	.0472	.0872	-.0110	-.0248	.0451	.0328	.0298	.4095	.2140	.2932	-.1192
45.000		.3961	.3643	-.0338	-.0178	.0147	.0035	.0002	-.0021	.0172	.0189				
90.000		.3113	.3123	-.0586	-.0533	-.0894	-.0782	-.0769	-.0500	-.0020	.1579		.0509	.0476	
135.000		.2628	.2172	-.0982	-.1028	-.0621	-.0441	-.0963	.0113	-.0033	.1970				
180.000	1.9289	.2132	.1149	-.1380	-.0575	-.0667	-.1202	.0287	.0358	.0275	.2986	.4438	.0000	.1420	.0127
225.000		.2103	.2552	-.0237	-.1209	-.2653	-.0162	-.0074	-.0066	.0192	.3393				
270.000		.0000	.3953	.2435	-.1258	-.1997	-.1494	.0769	.0616	.0265	.3304	.5402	.3190	.3820	-.1609
315.000		.4553	.5219	.1486	.2015	-.0487	-.0782	-.0054	.0536	.0460	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1889	-.0444	.0822	-.0087	.1577	.2405
45.000	.1341	.0173			.2976	.3728
90.000	.1394	.0757	.1485	.0888	.2428	.2599
135.000	.2665	.0180			.4415	.3794
180.000	.2274	.0528	.3990	-.0334	.1141	.0565
225.000	.0649	-.1549			-.0902	.0000
270.000	-.1163	-.0881	-.0593	-.0915	-.0288	-.0130
315.000	.0442	-.0940			.0898	.1818

ALPHAL(7) = 6.203 BETAL (2) = -2.002

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8745	.4493	.3591	-.0369	.0347	.0455	-.0233	-.0168	.0413	.0207	.0097	.3891	.2032	.2745	-.1243
45.000		.3505	.3330	-.0554	-.0431	-.0070	-.0122	-.0227	-.0174	-.0072	-.0131				
90.000		.2619	.2606	-.0855	-.0759	-.1088	-.0900	-.0949	-.0584	-.0194	.1170		.0343	.0109	
135.000		.2186	.1763	-.1143	-.1193	-.0661	-.0565	-.0998	-.0002	-.0128	.1875				
180.000	1.8745	.1763	.0870	-.1524	-.0749	-.0891	-.1129	.0288	.0319	.0170	.2948	.4434	.0000	.1192	-.0202
225.000		.1829	.2441	-.0339	-.1347	-.2679	-.0909	-.0174	-.0091	.0107	.3372				
270.000		.0000	.9633	.2559	-.1340	-.2059	-.1710	.0738	.0717	.0187	.3246	.5075	.3254	.3548	-.1874
315.000		.4336	.5243	.1423	.1932	-.0588	-.0726	-.0145	.0637	.0273	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1966	-.0480	.1312	-.0023	.1870	.2540
45.000	.1080	.0330			.2316	.2717
90.000	.1087	.0491	.1683	.0584	.2261	.2431
135.000	.2421	-.0191			.4163	.3435
180.000	.2155	.0399	.3439	-.0401	.0876	.0352

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS37)

ALPHAL(7) = 6.203 BETAL (2) = -2.002

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0531	-.1623			-.0801	.0000
270.000	-.1055	-.0891	-.0601	-.0667	-.0043	.0214
315.000	.0563	-.1055			.1253	.2122

ALPHAL(7) = 6.180 BETAL (3) = .079

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8014	.4189	.3397	-.0412	.0163	.0284	-.0290	-.0300	.0303	.0007	-.0099	.3598	.1992	.2702	-.1272
45.000		.3040	.2921	-.0703	-.0612	-.0142	-.0281	-.0497	-.0372	-.0277	-.0400				
90.000		.2133	.2192	-.1010	-.1002	-.1291	-.1012	-.1048	-.0346	-.0241	.1201		.0109	-.0083	
135.000		.1773	.1466	-.1271	-.1337	-.0700	-.0635	-.0753	-.0056	-.0039	.1591				
180.000	1.8014	.1403	.0670	-.1619	-.0920	-.1081	-.0930	.0244	.0162	-.0052	.2712	.4578	.0000	.0475	- 0585
225.000		.1552	.2288	-.0444	-.1508	-.2686	-.0818	-.0238	.0010	-.0115	.3293				
270.000		.0000	.0141	.2654	-.1406	-.2148	-.1356	.0687	.0510	-.0122	.2092	.5035	.3191	.3588	-.2121
315.000		.4130	.5427	.1305	.1801	-.0608	-.0740	.0070	.0519	0103	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1896	-.0687	.1216	-.0[illegible]	.2211	.4897
45.000	.0941	.0042			.1640	.2129
90.000	.0931	.0478	.1748	0480	.1915	.2079
135.000	.1702	-.0018			2733	.[illegible]2
180.000	.2510	-.0201	.2103	-.0446	.0734	.0[illegible]6
225.000	.0416	-.1655			-.0[illegible]	.0000
270.000	-.1025	-.0900	-.0068	-.0258	[illegible]	.0475
315.000	.0478	-.1061			1272	.2051

ALPHAL(7) = 6.166 BETAL (4) = 2.187

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
000	1.7343	.3901	.3284	-.0417	.0059	.0151	-.0364	-.0258	.0099	-.0260	-.0313	.3523	.1968	.2509	-.1294
45.000		.2577	.2620	-.0889	-.0788	-.0430	-.0603	-.0817	-.0659	-.0552	.0164				
90.000		.1688	.1807	-.1177	-.1199	-.1488	-.1119	-.1171	-.0245	-.0274	.1064		-.0062	-.0201	
135.000		.1394	.1153	-.1406	-.1452	-.0706	-.0794	-.0147	-.0154	-.0231	.1190				
180.000	1.7343	.1070	.0442	-.1643	-.1113	-.1232	-.0781	.0168	-.0038	-.0274	.2511	.5251	.0000	-.0125	-.0789
225.000		.1344	.2359	-.0571	-.1662	-.2719	-.0934	-.0229	-.0214	-.0254	.3127				

ARC97-019 IA01 LVAP(ALLHL SEALED) SRM BOOSTER (RETS37)

ALPHAL(7) = 6.166 BETAL (4) = 2.187

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.9013	.2690	-.1557	-.2269	-.1733	.0812	.0279	-.0413	.2935	.5270	.3060	.3245	-.2291
315.000		.3960	.5092	.1228	.1714	-.0610	-.0761	.0523	.0491	-.0048	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1433	-.0598	.1153	-.0189	.2180	.3138
45.000	.0925	-.0132			.1812	.1950
90.000	.0753	.0321	.1638	.0408	.1511	.1570
135.000	.1479	-.0415			.2075	.2266
180.000	.2247	-.0398	.1566	-.0743	.0143	.0159
225.000	.0078	-.1734			.0139	.0000
270.000	-.1081	-.0815	.0454	-.0248	.0343	.0321
315.000	.0258	-.1045			.1238	.2037

ALPHAL(7) = 6.152 BETAL (5) = 4.239

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6896	.3656	.3897	-.0247	-.0002	.0001	-.0469	-.0278	-.0093	-.0432	-.0432	.3732	.1671	.2301	-.1279
45.000		.2169	.2146	-.1081	-.0945	-.0673	-.0924	-.1055	-.0977	-.0624	.0641				
90.000		.1329	.1358	-.1365	-.1341	-.1609	-.1127	-.1183	-.0155	-.0310	.0928		-.0066	-.0208	
135.000		.1075	.0851	-.1528	-.1560	-.0722	-.0790	.0038	-.0172	-.0337	.0978				
180.000	1.6896	.0798	.0340	-.1596	-.1302	-.1390	-.0829	.0116	-.0221	-.0287	.1866	.6033	.0000	.0072	-.1276
225.000		.1157	.2229	-.0631	-.1721	-.2693	-.0702	-.0296	-.0244	-.0142	.2870				
270.000		.0000	.8944	.2757	-.1485	-.2300	-.1684	.0971	.0050	-.0614	.2840	.5459	.3521	.3326	-.2407
315.000		.3854	.5025	.1121	.1661	-.0460	-.0692	.0728	.0380	-.0142	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1207	-.0644	.1092	-.0044	.1998	.2738
45.000	.0972	-.0487			.1952	.2116
90.000	.0580	.0139	.1524	.0381	.1154	.1128
135.000	.1166	-.0444			.1285	.1369
180.000	.2165	-.0591	.1200	-.0970	-.0008	.0659
225.000	-.0280	-.1580			.0827	.0000
270.000	-.1200	-.0919	.0196	-.0319	.0061	.0160
315.000	.0063	-.1128			.1141	.2010

ARC97-018 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.500 RN/FT = 2.500
ELV-1B = 8.000 ELV-0B = -4.000
RUDDER = .000 SPDBRK = .000

ALPHAL(1) = -6.827 BETAL (1) = -3.877

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.1273	.2068	.1102	-.1115	-.0508	-.0498	-.0903	-.1218	-.1218	-.1273	-.0584	-.0784	-.0894	-.1102	-.1501
45.000		.2505	.2156	-.0731	-.0769	-.0541	-.0287	-.0567	-.0892	-.1400	-.0789				
90.000		.2952	.3055	-.0340	-.0373	-.0731	-.0619	-.0665	-.1078	-.1655	-.1107		.0615	.0541	
135.000		.3964	.3812	-.0016	-.0040	.0090	.0248	.0553	.0211	-.0030	.0126				
180.000	2.1273	.5073	.3960	-.0023	.0345	.0822	.0066	.2082	.0906	.0497	.1362	.6059	.0000	.2113	-.1123
225.000		.4909	.5230	.1958	.1993	-.0149	-.0591	.1980	.1094	.0412	.1224				
270.000		.0000	.7672	.3521	.2270	-.1624	-.1176	.0042	-.0524	-.0743	.1175	.9570	.7203	.9763	-.1664
315.000		.2223	.1743	.0198	-.0850	-.2061	-.1715	-.0969	-.0632	-.0411	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0518	-.1154	-.0065	-.1132	-.0500	-.0360
45.000	-.0410	-.1329			-.0623	-.0613
90.000	-.1106	-.1150	.0990	-.1202	-.0318	.0363
135.000	.0809	-.0968			.1148	.1102
180.000	.2676	-.0904	.0248	-.0248	.1366	.0776
225.000	.0268	-.1810			-.0465	.0000
270.000	-.0925	-.1431	-.0669	-.0995	-.0150	.0044
315.000	-.0487	-.1319			.1022	.0599

ALPHAL(1) = -6.828 BETAL (2) = -1.779

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.0334	.1663	.0768	-.1309	-.0753	-.0756	-.0980	-.1165	-.1144	-.0909	-.1272	.0050	.0710	.1100	-.1485
45.000		.2050	.1748	-.0905	-.0934	-.0505	-.0467	-.0711	-.0990	-.1515	-.0842				
90.000		.2450	.2507	-.0536	-.0602	-.0931	-.0791	-.0795	-.1273	-.1759	-.1117		.0362	.0215	
135.000		.3417	.3273	-.0256	-.0274	-.0152	-.0065	.0354	-.0204	-.0479	-.0321				
180.000	2.0334	.4657	.3694	-.0141	.0142	.0631	-.0107	.1813	.0751	.0141	.0871	.4678	.0000	.2230	-.1386
225.000		.4597	.5302	.1250	.1813	-.0218	-.0529	.1722	.0892	.0236	.0924				
270.000		.0000	.7156	.3592	.2274	-.1710	-.1[illegible]2	-.0104	-.0659	-.0560	.1787	.8642	.5438	.6157	-.1650
315.000		.1895	.1330	.0111	-.0976	-.2104	-.[illegible]863	-.1228	-.0740	-.0363	.0000				

ARC97-019 :A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL(1) = -6.828 BETAL (2) = -1.779

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0389	-.1458	.1833	-.1199	-.0281	-.0441
45.000	-.0315	-.1224			-.0473	-.0587
90.000	-.0978	-.1000	.0981	-.0979	-.0318	.0247
135.000	.0540	-.1329			.0438	.0708
180.000	.0139	-.1154	.0334	-.0788	.0809	.0614
225.000	.0078	-.1884			-.0098	.0000
270.000	-.0944	-.1185	-.0110	-.0780	-.0113	-.0178
315.000	-.0377	-.1147			.0610	.0410

ALPHAL(1) = -6.820 BETAL (3) = .319

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1110	.1397	.1956	.2794	.3632	.4750	.5887	.6986	.7280	.7290	.7360	.7370
PHI															
.000	1.9452	.1345	.0593	-.1375	-.0875	-.0977	-.1063	-.1059	-.1038	-.0820	-.0589	.8147	.1076	.1469	-.1477
45.000		.1650	.1380	-.1024	-.1074	-.0519	-.0560	-.0811	-.1059	-.1462	-.0779				
90.000		.1963	.2019	-.0743	-.0791	-.1116	-.0864	-.0874	-.1419	-.1822	-.0895		.0054	-.0087	
135.000		.2912	.2838	-.0435	-.0512	-.0449	-.0319	.0055	-.0529	-.0790	-.0627				
180.000	1.9452	.4300	.3488	-.0236	.0012	.0411	-.0172	.1390	.0514	-.0131	.0592	.3594	.0000	.3018	-.1460
225.000		.4367	.5530	.0725	.1665	-.0232	-.0437	.1627	.0678	-.0071	.2741				
270.000		.0000	.6824	.3657	.2168	-.1742	-.1167	-.0181	-.0751	-.0402	.1363	.7468	.3647	.4269	-.1843
315.000		.1633	[illegible]7	.0023	-.1099	-.2121	-.1947	-.1363	-.0599	-.0219	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0886	-.1193	.2059	-.0524	.1203	.1011
45.000	-.0385	-.1172			-.0353	-.0283
90.000	-.1073	-.1012	.0724	-.0734	-.0311	-.0066
135.000	.0383	-.1613			-.0111	.0387
180.000	.1186	-.1399	-.0014	-.0982	.0546	.2459
225.000	-.0229	-.1717			.0591	.0000
270.000	-.0938	-.1039	.0336	-.0685	-.0073	-.0180
315.000	-.0435	-.1071			.0095	.0289

ARC97-019 IAB1 EVAP(ALLHL SEALED: SRM BOOSTER (RETS38)

ALPHAL(1) = -8.737 BETAL(1) = 2.43

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8733	.1038	.0448	-.1418	-.0758	-.1116	-.1145	-.0897	-.0758	-.0414	-.0256	.2068	.0980	.1348	-.1318
45.000		.1311	.1108	-.1120	-.1172	-.0578	-.0618	-.0849	-.1082	-.1287	-.0699				
90.000		.1575	.1613	-.0896	-.0973	-.1256	-.0918	-.0911	-.1420	-.1731	-.0390		-.0165	-.0203	
135.000		.2466	.2399	-.0517	-.0683	-.0505	-.0563	-.0176	-.0798	-.1125	-.0984				
180.000	1.8583	.3985	.3164	-.0327	-.0019	.0288	-.0252	.0540	.0255	-.0400	.0490	.4655	.0000	.1938	-.1495
225.000		.4139	.5665	.0295	.1515	-.0295	.0557	.1500	.0427	-.0207	.3563				
270.000		.0000	.6578	.3741	.2158	-.1766	-.1103	-.0207	-.0794	-.0506	.1469	.7482	.4009	.4304	-.1760
315.000		.1434	.1059	-.0134	-.1151	-.2693	-.1898	-.1389	-.0252	-.0157	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0829	-.0967	.0436	-.0618	.1273	.1674
45.000	-.0052	-.1183			-.0318	-.0105
90.000	-.0937	-.0974	.0526	-.0757	-.0297	-.0332
135.000	-.0411	-.1738			-.0387	.0124
180.000	.0542	-.1557	-.0051	-.0694	.0875	.3078
225.000	.0228	-.1400			.1556	.0000
270.000	-.0841	-.1075	-.0035	-.0713	.0433	-.0386
315.000	-.0495	-.1243			.0642	.0424

ALPHAL(1) = -8.783 BETAL(1) = 4.203

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7682	.0782	.0308	-.1484	-.0795	-.1270	-.1262	-.0821	-.0335	-.0295	.0603	.1865	.1194	.1950	-.1424
45.000		.0965	.0810	-.1277	-.1277	-.0651	-.0723	-.0984	-.1090	-.1462	-.0613				
90.000		.1179	.1211	-.1045	-.1134	-.1410	-.0937	-.0932	-.1318	-.1208	-.0211		-.0718	-.0360	
135.000		.2047	.2002	-.0791	-.0819	-.0690	-.0888	-.0282	-.1075	-.1395	-.0993				
180.000	1.7582	.3845	.3010	-.0326	.0142	.0170	.0563	.0500	-.0042	-.0704	.0670	.4131	.0000	.1317	-.1797
225.000		.3243	.5803	.0083	.1488	-.0193	.1227	.1035	.0124	-.0119	.2923				
270.000		.0000	.6028	.3841	.2296	-.1098	-.1056	-.0332	-.0433	-.0435	.1266	.7172	.4202	.4219	-.1741
315.000		.1236	.0933	-.0326	-.1235	-.2125	-.1908	-.1506	-.0285	-.0144	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0786	-.1026	.0335	-.0750	.1172	.1590
45.000	.0090	-.1201			.0520	.0335
90.000	-.0609	-.1250	.0436	-.0844	-.0541	-.0492
135.000	-.1082	-.1306			-.0478	.0022
180.000	.0181	-.1672	-.0426	-.0667	.1228	.1515

ARC97-019 IA81 LVAP(ALUM SEALED) SRM BOOSTER (RETS3A)

ALPHAL(1) = -6.783 BETAL (5) = 4.503

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0080	-.1414			.1235	.0000
270.000	-.0824	-.1072	-.0348	-.0701	-.0452	-.0340
315.000	-.0412	-.1250			.0083	.0413

ALPHAL(2) = -4.650 BETAL (1) = -5.955

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.2084	.2864	.1738	-.0985	-.0265	-.0146	-.0690	-.1025	-.0798	-.0749	.0239	.0535	-.0293	.0356	-.1088
45.000		.3247	.2815	-.0515	-.0450	-.0268	.0033	-.0260	-.0890	-.1091	.0127				
90.000		.3717	.3829	-.0104	-.0052	-.0300	-.0180	-.0131	-.0347	-.0932	-.0471		.1087	.0827	
135.000		.4388	.4030	0071	.0053	.0357	.0452	.0103	.0908	.0373	.0141				
180.000	2.2084	.4908	.3691	-.0177	.0155	.0755	-.0054	.1863	.1217	.0823	.1963	.6622	.0000	2274	-.0628
225.000		.4718	.4342	.2044	.1859	-.0460	-.1063	.1919	.1305	.0549	.1713				
270.000		.0009	.8429	.3546	.1454	-.1445	-.1315	-.0127	-.0419	-.0544	.2202	.9225	.8210	1.1669	-.1551
315.000		.2930	.1301	.0731	-.0205	-.1908	-.1444	-.0780	-.0675	-.0313	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.2094	-.1061	-.0365	-.0682	-.0260	-.0180
45.000	.0075	-.1016			.0100	.0735
90.000	-.1091	-.0855	.0030	-.0969	.0361	.1371
135.000	.1560	-.0559			.2338	.2076
180.000	.3522	.0313	.1968	.0061	.1996	.1414
225.000	.0352	-.1750			-.0047	.0000
270.000	-.0935	-.1404	-.0697	-.1014	-.0396	.0009
315.000	-.0290	-.1242			-.0110	-.0188

ALPHAL(2) = -4.654 BETAL (2) = -3.907

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
0.0	2.1342	.2437	.1457	-.1084	-.0787	.0347	-.0837	-.0873	-.0841	-.0651	.0479	.0862	.0156	.0604	-.1232
45.000		.2725	.2381	-.0649	-.0637	-.0372	-.0136	-.0822	-.0736	-.1147	-.0165				
90.000		.3073	.3108	-.0309	-.0309	-.0538	-.0342	-.0321	-.0593	-.1161	-.0495		.0771	.0539	
135.000		.3747	.3529	-.0117	-.0156	.0106	.0153	-.0101	.0454	.0120	-.0172				
180.000	2.1342	.4496	.3350	-.0281	.0036	.0576	-.0209	.1594	.0820	.0472	.1513	.6150	.0000	.2120	-.1024
225.000		.4442	.4105	.1826	.1707	-.0588	-.1001	.1720	.1024	.0282	.1341				

ARC97-019 IABI EVAP(ALUM. SEALED) SRM BOOSTER (RETS38)

ALPHAL(2) = -4.654 BETAL (2) = -3.917

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.7716	.3685	.1376	-.1458	-.1322	-.0265	-.0531	-.0352	.2104	.8827	.7109	.9626	-.1622
315.000		.2613	.1556	.0598	-.0350	-.1979	-.1469	-.0968	-.0788	-.0228	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0073	-.0876	-.0368	-.0910	.0187	.0019
45.000	.0209	-.1103			-.0012	.0236
90.000	-.0933	-.0911	-.0190	-.0882	.0093	.1004
135.000	.1140	-.0810			.1664	.1561
180.000	.2879	-.0775	.1283	-.0222	.1521	.1001
225.000	.0120	-.1763			-.0375	.0000
270.000	-.0866	-.1383	-.0655	-.0885	-.0187	.0113
315.000	-.0135	-.1307			-.0023	-.0116

ALPHAL(2) = -4.648 BETAL (3) = .308

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9536	.1720	.0962	-.1230	-.1070	-.0750	-.1042	-.0861	-.0635	-.0288	.0548	.1535	.0731	.1147	-.1184
45.000		.1859	.1618	-.0958	-.0958	-.0451	-.0396	-.0642	-.0712	-.0892	-.0307				
90.000		.2100	.2076	-.0693	-.0746	-.0889	-.0496	-.0556	-.0948	-.1354	-.0622		.0140	.0015	
135.000		.2697	.2596	-.0534	-.0607	-.0423	-.0281	.0139	-.0282	-.0482	-.0713				
180.000	1.9536	.3699	.2924	-.0458	-.0266	.0151	-.0410	.1215	.0429	-.0142	.0039	.3670	.0000	.3271	-.1453
225.000		.3863	.4554	.1242	.1354	-.0757	-.0837	.1268	.0580	-.0205	.2626				
270.000		.0000	.7595	.3839	.1409	-.1699	-.1333	-.0257	-.0786	-.0380	.1599	.7646	.4589	.5360	-.1753
315.000		.2051	.1203	.0272	-.0618	-.1962	-.1444	-.1247	-.0520	-.0121	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0790	-.0932	.0193	-.0698	.1009	.1089
45.000	-.0080	-.0855			.0168	.0168
90.000	-.0815	-.0810	.0041	-.0574	.0384	.0808
135.000	.0850	-.1397			.0273	.0831
180.000	.1427	-.1275	-.0223	-.0885	.0294	.1818
225.000	-.0135	-.1720			.0534	.0000
270.000	-.0888	-.1050	.0291	-.0878	-.0195	-.0255
315.000	-.0313	-.1133			.0037	.0319

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL(2) = -4.614 BETAL (4) = 4.488

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7830	.1129	.0654	-.1318	-.0786	-.1078	-.1184	-.0660	-.0302	-.0228	.0006	.2326	.1442	.2763	-.1366
45.000		.1157	.1024	-.1150	-.1127	-.0527	-.0601	-.0677	-.0386	-.0172	-.0424				
90.000		.1304	.1348	-.0951	-.1012	-.1120	-.0611	-.0580	-.0945	-.0743	.0209		-.0156	.0015	
135.000		.1890	.1841	-.0804	-.0856	- 0800	-.0771	-.0431	-.0900	-.1079	-.0480				
180.000	1.7830	.3052	.2497	-.0571	-.0196	-.0075	-.0455	.0514	-.0099	-.0732	.0780	.4452	.0000	.1228	-.1666
225.000		.3429	.4882	.0564	.0959	-.0714	.0559	.1076	.0122	-.0568	.3328				
270.000		.0000	.4775	.4059	.1473	-.1727	-.1219	-.0403	-.0711	-.0337	.1487	.7746	.4480	.5183	-.1719
315.000		.1639	.0977	.0001	-.0641	-.1944	-.1399	-.1406	-.0246	-.0197	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1403	-.0795	.0803	-.0725	.0963	.1099
45.000	.0501	-.0748			.065	.0821
90.000	-.0128	-.0677	.0404	-.0472	.0116	.0303
135.000	-.0232	-.1084			-.0016	.0240
180.000	.0147	-.1588	-.0128	-.0381	.0657	.1186
225.000	-.0190	-.1393			.0845	.0000
270.000	-.0830	-.1097	-.0406	-.0701	-.0485	-.0289
315.000	-.0281	-.1292			.0109	.0881

ALPHAL(2) = -4.592 BETAL (5) = 8.551

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7058	.0851	.0508	-.1398	-.0957	-.1201	-.1282	-.0582	-.0258	-.0272	.0111	.2738	.0959	.1633	-.1243
45.000		.0799	.0715	-.1270	-.1232	-.0738	-.0753	-.0617	-.0209	-.0247	-.0486				
90.000		.0932	.0995	-.1134	-.1173	-.1225	-.0631	-.0537	-.0749	-.0655	.0286		-.0258	-.0114	
135.000		.1438	.1408	-.0999	-.1009	-.0832	-.0958	-.0798	-.1251	-.1353	.0307				
180.000	1.7056	.2822	.2286	-.0581	-.0418	-.0226	.0662	.0198	-.0318	-.0925	.1058	.4762	.0000	.0435	-.1771
225.000		.3305	.4299	.0268	.0752	-.0713	.1153	.0773	-.0012	-.0437	.2918				
270.000		.0000	.5774	.4021	.1410	-.1782	-.1059	-.0528	-.0167	-.0419	.1648	.8167	.4936	.6555	-.1617
315.000		.1443	.1471	-.0080	-.0759	-.1986	-.1324	-.1394	-.0353	-.0398	.0430				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1574	-.0894	.0565	-.0893	.1152	.1545
45.000	.0665	-.0870			.1018	.1531
90.000	.0106	-.0661	.0530	-.0617	.0318	.0530
135.000	-.0320	-.1193			.0047	.0173
180.000	.0060	-.1413	-.0189	-.0450	.0447	.0495

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL(2) = -4.892 BETAL (6) = 8.551

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0442	-.1326			.0273	.0000
270.000	-.0703	-.1162	-.0370	-.0731	-.0547	-.0348
315.000	-.0219	-.1354			.0089	.1500

ALPHAL(3) = -2.473 BETAL (1) = -5.941

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.2105	.3275	.2113	-.0808	-.0508	.0112	-.0605	-.0789	-.0288	-.0557	.1071	.1728	.0434	.0832	-.0763
45.000		.3520	.3096	-.0364	-.0320	-.0073	.0199	-.0107	-.0504	-.0434	-.0148				
90.000		.3813	.3663	-.0084	-.0031	-.0062	.0129	.0206	-.0048	-.0445	.0215		.1130	.0899	
135.000		.4090	.3726	-.0052	-.0076	.0262	.0393	.0039	.0930	.0464	.0243				
180.000	2.2105	.4338	.3117	-.0389	-.0069	.0509	-.0264	.1190	.1127	.0580	.1916	.6598	.0000	.2379	-.0711
225.000		.4282	.3026	.1585	.1469	-.0821	-.1099	.1507	.1208	.0534	.2116				
270.000		.0000	.8357	.3645	.0843	-.1451	-.1075	-.0254	-.0508	-.0553	.2825	.8641	.8444	1.1883	-.1505
315.000		.3317	.2005	.1024	.0349	-.1450	-.1259	-.0222	-.0795	-.0238	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0115	-.0918	-.1043	-.1148	-.0104	.0324
45.000	.0490	-.0787			.1444	.2091
90.000	-.0809	-.0317	.0066	-.0191	.1270	.2355
135.000	.1909	-.0369			.2703	.2533
180.000	.3586	-.0331	.2289	.0167	.2188	.1660
225.000	.0347	-.1705			.0028	.0000
270.000	-.0853	-.1270	-.0647	-.0852	-.0306	.0037
315.000	-.0202	-.1204			-.0532	-.0212

ALPHAL(3) = -2.483 BETAL (2) = -1.787

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.0399	.2455	.1588	-.1025	-.0801	-.0331	-.0907	-.0843	-.0387	-.0147	.1189	.1708	.0218	.0798	-.0869
45.000		.2497	.2241	-.0724	-.0693	-.0348	-.0188	-.0412	-.0468	-.0392	-.0203				
90.000		.2678	.2819	-.0521	-.0473	-.0470	-.0210	-.0188	-.0402	-.0694	.0155		.0547	.0295	
135.000		.2976	.2759	-.0442	-.0483	-.0198	-.0137	-.0297	.0327	-.0013	-.0322				
180.000	2.0399	.3538	.2514	-.0609	-.0341	.0115	-.0611	.1200	.0551	.0222	.1179	.5016	.0000	.2549	-.1125
225.000		.3697	.2787	.1354	.1198	-.1034	-.1095	.1430	.0748	-.0020	.1274				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL(3) = -2.483 BETAL (2) = -1.797

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.7884	.3895	.0728	-.1573	-.1405	-.0423	-.0834	-.0519	.1976	.9177	.6109	.6622	-.1620
315.000		.2735	.1523	.0728	.0098	-.1565	-.1307	-.0451	-.0841	-.0319	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0218	-.1068	-.0310	-.0840	.0348	.0606
45.000	.0435	-.0663			.1055	.1905
90.000	-.0442	-.0527	.0010	-.0366	.1041	.1891
135.000	.1295	-.0872			.1466	.1581
180.000	.2765	-.0932	.0933	-.0575	.0923	.0562
225.000	.0448	-.1838			-.0377	.0000
270.000	-.0968	-.1200	.0240	-.0824	.0233	-.0014
315.000	-.0258	-.1047			-.0258	.0087

ALPHAL(3) = -2.471 BETAL (3) = 2.403

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8816	.1789	.1162	-.1188	-.0975	-.0675	-.1068	-.0629	-.0177	-.0154	.0590	.2970	.0999	.1302	-.0998
45.000		.1648	.1541	-.0289	-.0981	-.0623	-.0483	-.0482	-.0184	-.0035	.0438				
90.000		.1772	.1758	-.0877	-.0867	-.0780	-.0305	-.0445	-.0605	-.0495	.0646		.0209	.0265	
135.000		.2024	.1940	-.0755	-.0818	-.0634	-.0500	.0119	-.0246	-.0597	.0232				
180.000	1.8816	.2844	.2129	-.0748	-.0557	-.0195	-.0761	.0655	.0155	-.0478	.0906	.5535	.0000	.1772	-.1292
225.000		.3208	.2840	.0887	.0880	-.1138	-.0887	.1125	.0250	-.0537	.3049				
270.000		.0000	.7623	.4083	.0860	-.1671	-.1172	-.0535	-.0878	.0467	.1925	.7647	.4060	.4708	-.1609
315.000		.2227	.1218	.0505	.0010	-.1579	-.1238	-.0638	-.0636	-.0358	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0570	-.0848	-.0197	-.0827	.0827	.1203
45.000	.1229	-.0785			.1175	.1318
90.000	-.0103	-.0576	.0040	-.0489	.1102	.1485
135.000	.1040	-.1116			.0615	.0801
180.000	.0953	-.1350	.0117	-.0252	.0423	.1416
225.000	.0019	-.1461			.1262	.0000
270.000	-.1033	-.0970	-.0176	-.0681	-.0430	-.0390
315.000	-.0514	-.1095			-.0621	.0109

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL(3) = -2.455 BETAL (4) = 8.520

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7281	.1273	.0840	-.1263	-.0901	-.0936	-.1210	-.0518	-.0118	-.0189	-.0004	.2896	.1309	.1586	-.1147
45.000		.0957	.0908	-.1214	-.1099	-.0908	-.0737	-.0511	.0067	-.0056	-.0249				
90.000		.1006	.1048	-.1123	-.1127	-.0998	-.0420	-.0358	-.0323	-.0298	.0509		.0037	.0279	
135.000		.1255	.1283	-.1033	-.1103	-.1051	-.0859	-.0434	-.0680	-.0824	.0790				
180.000	1.7281	.2236	.1794	-.0873	-.0528	-.0497	-.0678	.0223	-.0315	-.0905	.1593	.5015	.0000	.0665	-.1697
225.000		.2792	.4057	.0617	.0565	-.1072	.0401	.0815	-.0122	-.0855	.2873				
270.000		.0000	.6678	.4664	.0798	-.1758	-.0747	-.0619	-.0708	-.0564	.1593	.8020	.5379	.8198	-.1665
315.000		.1857	.1385	.0408	-.0163	-.1624	-.1088	-.0650	-.0673	-.0424	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1197	-.0807	.0638	-.0616	.1290	.1618
45.000	.0581	-.0598			.0983	.1433
90.000	.0405	-.0375	.0356	-.0282	.0614	.0788
135.000	.0269	-.0922			.0227	.0512
180.000	.0314	-.1155	.0380	-.0320	.0349	.0550
225.000	-.0528	-.1256			.0534	.0000
270.000	-.0689	-.1106	-.0495	-.0683	-.0491	-.0296
315.000	-.0305	-.1246			-.0184	.1554

ALPHAL(4) = -.290 BETAL (1) = .915

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.2170	.3720	.2588	-.0667	[illegible]	.0341	-.0491	-.0697	.0000	-.0124	.1414	.2201	.0421	.0270	-.0789
45.000		.3783	.3401	-.0246	-.0199	.0122	.0293	.0014	-.0257	.0055	-.0071				
90.000		.3825	.3688	-.0085	-.0025	.0020	.0290	.0321	.0108	.0055	.0919		.1080	.1178	
135.000		.3797	.3450	-.0185	-.0196	.0136	.0307	-.0055	.0845	.0522	.0329				
180.000	2.2170	.3793	.2683	-.0583	-.0255	.0306	-.0432	.0663	.0898	.0603	.1958	.6545	.0000	.2250	-.0645
225.000		.3849	.2480	.1321	.1031	-.1147	-.0595	.0628	.0969	.0540	.2933				
270.000		.0000	.8108	.3828	.0442	-.1391	-.0260	.0021	-.0539	-.0819	.2520	.8359	.8804	1.2054	-.1558
315.000		.3751	.2416	.1289	.1031	-.1146	-.1059	.0115	-.0335	-.0320	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0456	-.0958	-.0992	-.0957	.0167	.0801
45.000	.0799	-.0669			.2267	.3882
90.000	-.0060	-.0387	.0180	.0460	.2420	.3261
135.000	.2508	-.0031			.2786	.2855
180.000	.3537	-.0114	.2909	.0233	.2389	.1857

ARC97-01S IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL(4) = -.290 BETAL (1) = -5.915

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0681	-.1715			.0135	.0000
270.000	-.0675	-.1168	-.0956	-.0918	-.0416	-.0143
315.000	-.0414	-.1129			-.0772	-.0364

ALPHAL(4) = -.304 BETAL (2) = -3.877

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.1382	.3306	.2280	-.0772	-.0428	.0153	-.0646	-.0771	-.0043	-.0013	.1349	.2009	.0719	.0813	-.0097
45.000		.3198	.2970	-.0429	-.0379	-.0038	.0061	-.0137	-.0322	.0016	.0023				
90.000		.3233	.3173	-.0281	-.0240	-.0164	.0082	.0099	.0051	-.0069	.0795		.0810	.1108	
135.000		.3254	.3023	-.0345	-.0369	-.0026	.0078	-.0204	.0521	.0289	.0114				
180.000	2.1382	.3405	.2353	-.0689	-.0379	.0115	-.0611	.0618	.0689	.0359	.1553	.5709	.0000	.2072	-.0740
225.000		.3594	.2252	.1148	.0063	-.1246	-.1074	.0583	.0763	.0233	.2637				
270.000		.0000	.7779	.3797	.0379	-.1445	-.0489	-.0005	-.0780	-.0606	.2286	.7617	.7634	1.1107	-.1581
315.000		.3475	.2189	.1135	.0870	-.1234	-.1178	-.0016	-.0346	-.0360	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0379	-.1056	-.0699	-.0894	.0161	.0812
45.000	.0939	-.0509			.1991	.3185
90.000	-.0070	-.0429	.0175	.0436	.1897	.2635
135.000	.1774	-.0339			.2746	.2535
180.000	.3600	-.0401	.2204	-.0034	.1974	.1527
225.000	.0198	-.1691			-.0312	.0000
270.000	-.0903	-.1179	-.0476	-.0674	-.0069	.0258
315.000	-.0408	-.1175			-.0539	-.0055

ALPHAL(4) = -.318 BETAL (3) = .307

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9723	.2549	.1767	-.0970	-.0703	-.0257	-.0863	-.0790	-.0118	-.0054	.0973	.2617	.0723	.1572	-.0964
45.000		.2223	.2076	-.0798	-.0787	-.0449	-.0357	-.0350	-.0172	.0079	.0512				
90.000		.2223	.2167	-.0721	-.0714	-.0595	-.0178	-.0252	-.0245	-.0181	.0621		.0597	.0860	
135.000		.2318	.2069	-.0752	-.0808	-.0477	-.0350	-.0418	.0185	-.0117	.0118				
180.000	1.9723	.2665	.1813	-.0920	-.0731	-.0309	-.0894	.1010	.0304	.0002	.1071	.3796	.0000	.3228	-.1153
225.000		.3018	.1937	.0950	.0654	-.1426	-.1226	.0976	.0361	-.0272	.2650				

ARC97-013 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL(4) = -.318 BETAL (3) = .307

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.7826	.3969	.0441	-.1814	-.0709	-.0155	-.0969	-.0571	.2568	.7885	.4876	.5428	-.1704
315.000		.2904	.1834	.0912	.0671	-.1393	-.1358	-.0242	-.0357	-.0265	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0334	-.0760	-.0298	-.0640	.0602	.0937
45.000	.0727	-.0627			.1073	.1363
90.000	-.0055	-.0401	.0156	-.0183	.1921	.2720
135.000	.2093	-.0739			.2033	.2033
180.000	.2358	-.0983	.0812	-.0333	.0595	.0408
225.000	.0213	-.1831			.0044	.0000
270.000	-.0969	-.1018	.0089	-.0556	-.0151	-.0201
315.000	-.0474	-.1105			-.0441	-.0048

ALPHAL(4) = -.308 BETAL (4) = 4.481

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8015	.1976	.1438	-.1019	-.0878	-.0533	-.0948	-.0568	-.0199	-.0160	.0944	.2118	.1166	.2188	-.1162
45.000		.1463	.1403	-.1050	-.1033	-.0805	-.0697	-.0575	.0090	.0069	.0276				
90.000		.1435	.1417	-.0984	.0979	-.0826	-.0352	-.0418	-.0147	.0048	.0712		.0527	.0632	
135.000		.1467	.1424	-.0979	-.1025	-.0791	-.0687	.0171	-.0251	-.0536	.1183				
180.000	1.8015	.1997	.1533	-.0976	-.1054	-.0582	-.0990	.0233	-.0202	-.0631	.1605	.6227	.0020	.1507	-.1478
225.000		.2492	.2323	.0793	.0493	-.1419	-.0774	.0878	-.0033	-.0821	.2097				
270.000		.0000	.7599	.4187	.0182	-.1687	-.0505	-.0471	-.0846	-.0645	.1102	.7739	.4355	.5257	-.1612
315.000		.2460	.1825	.0623	.0521	-.1359	-.1185	-.0223	-.0290	-.0360	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0949	-.0748	.0516	-.0409	.0705	.1061
45.000	.0727	-.0678			.1685	.1856
90.000	.0271	-.0364	.0404	-.0433	.1762	.2139
135.000	.1545	-.0986			.0909	.0935
180.000	.0753	-.1153	.0743	-.0409	.0439	.0977
225.000	-.0179	-.1425			.0872	.0000
270.000	-.0916	-.0993	-.0280	-.0643	-.0416	-.0152
315.000	-.0329	-.1216			.0080	.0569

ARC97-019 (AB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHA(4) = -.304 BETA (3) = 6.526

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7404	.1749	.1307	-.1121	-.0990	-.0666	-.1017	-.0505	-.0215	-.0223	.0877	.2749	.0963	.1538	-.1118
45.000		.1103	.1095	-.1170	-.1165	-.0987	-.0794	-.0581	.0137	-.0012	.0149				
90.000		.1061	.1040	-.1093	-.1112	-.0903	-.0376	-.0285	-.0027	-.0016	-.0002		.0321	.0633	
135.000		.1124	.1103	-.1095	-.1168	-.0973	-.0791	-.0003	-.0438	-.0459	.0972				
180.000	1.7404	.1780	.1370	-.1060	-.0994	-.0722	-.0972	-.0051	-.0413	-.0849	.1556	.5517	.0000	.0581	-.1595
225.000		.2349	.3001	.0694	.0373	-.1384	-.0023	.0541	-.0272	-.0898	.1742				
270.000		.0000	.7542	.3927	.0192	-.1716	-.0445	-.0668	-.0378	-.0677	.0895	.7448	.5524	.8757	-.1753
315.000		.2324	.2500	.0833	.0405	-.1362	-.0930	- 0142	-.0216	-.0406	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0742	-.0780	.0404	-.0586	.1087	.1714
45.000	.0605	-.0550			.1230	.1362
90.000	.0637	-.0372	.0502	-.0436	.1397	.1547
135.000	.0887	-.0920			.0415	.0715
180.000	.0563	-.0927	.0658	-.0352	.0258	.0381
225.000	-.0295	-.1339			.0829	.0000
270.000	-.0780	-.1046	- 0275	-.0586	-.0370	-.0186
315.000	-.0268	-.1199			.0115	.0894

ALPHA(5) = 1.860 BETA (1) = -5.866

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.2293	4239	.3073	-.0488	-.0105	.0593	-.0226	-.0578	.0259	.0119	.1523	.2327	.0592	.0599	-.1061
45.000		4001	.3702	-.0151	-.0080	.0262	.0374	.0182	-.0086	.0210	.0228				
90.000		3744	.3649	-.0102	-.0035	-.0049	.0161	.0217	-.0118	.0295	.1132		.0951	.1126	
135.000		3530	.3165	-.0310	-.0324	-.0066	.0196	-.0180	.0643	.0390	.0953				
180.000	2.2293	3323	2199	-.0736	-.0474	.0080	-.0571	.0221	.0728	.0312	.1663	.6091	.0000	.1842	-.0727
225.000		3446	.2006	.0963	.0537	-.1454	-.0313	-.0076	.0404	.0316	.2747				
270.000		0000	7517	.3588	.0220	-.1342	-.0407	.0562	-.0264	-.0806	.1818	.6543	.5559	.6237	-.1654
315.000		4225	.2799	.1245	.1698	-.0738	-.0972	.0186	.0214	-.0057	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0670	- 0943	-.0770	-.0782	.0628	.1364
45.000	.1338	-.2353			.2202	.2676
90.000	.0403	- 0032	.0307	0464	.3322	.4393
135.000	3125	0209			3332	.3488
180.000	.3464	0101	3654	.0487	.2673	.2056

ARC97-019 IA81 LVAP(ALUM SEALED) SRM BOOSTER (RETS38)

ALPHAL(3) = 1.850 BETAL (1) = -5.866

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0737	-.1397			-.0238	.0000
270.000	-.1139	-.0922	-.0144	-.0698	-.0489	-.0387
315.000	-.0727	-.1041			-.0322	.0250

ALPHAL(5) = 1.820 BETAL (2) = -1.738

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.0559	.3424	.2518	-.0874	-.0387	.0188	-.0474	-.0879	.0091	.0021	.0270	.4053	.0977	.1047	-.1030
45.000		.2918	.2711	-.0512	-.0502	-.0187	-.0098	-.0209	-.0237	.0203	.0523				
90.000		.2697	.2630	-.0518	-.0487	-.0480	-.0223	-.0148	.0052	.0112	.0688		.0602	.0898	
135.000		.2546	.2297	-.0624	-.0666	-.0355	-.0150	-.0432	.0291	.0101	.0884				
180.000	2.0559	.2553	.1675	-.0952	-.0742	-.0359	-.0854	.0460	.0361	.0098	.1099	.4081	.0000	.1949	-.0675
225.000		.2855	.1605	.0687	.0251	-.1590	-.0864	.0139	.0217	-.0067	.2349				
270.000		.0000	.7106	.3703	.0115	-.1436	-.0859	.0686	-.0302	-.0492	.2300	.7371	.5343	.7385	-.1598
315.000		.3635	.2455	.0958	.1360	-.1000	-.1098	.0010	.0140	-.0057	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1131	-.0651	.0747	.0005	.1036	.1242
45.000	.0735	-.0278			.2253	.2640
90.000	.0363	-.0129	.0681	.0642	.2246	.3103
135.000	.1927	-.0219			.2309	.2575
180.000	.3305	-.0466	.2488	-.0184	.2298	.1269
225.000	.0102	-.1614			.1365	.0000
270.000	-.0895	-.0934	-.0564	-.0548	-.0020	.0164
315.000	-.0581	-.1031			.0242	.0630

ALPHAL(5) = 1.817 BETAL (3) = 2.442

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8822	.2779	.2089	-.0835	-.0599	-.0154	-.0692	-.0803	-.0023	-.0187	.0916	.2325	.1337	.1897	-.1063
45.000		.1987	.1927	-.0842	-.0829	-.0655	-.0514	-.0549	-.0229	.0119	.0674				
90.000		.1745	.1798	-.0866	-.0864	-.0805	-.0382	-.0451	-.0058	.0094	.0098		.0615	.0660	
135.000		.1629	.1531	-.0937	-.0979	-.0662	-.0500	-.0190	.0010	-.0173	.1538				
180.000	1.8822	.1878	.1177	-.1135	-.0993	-.0688	-.1064	.0610	.0038	-.0373	.1830	.4889	.0000	.1908	-.1007
225.000		.2358	.1160	.0500	.0076	-.1692	-.0942	.0144	.0073	-.0517	.2487				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL(5) = 1.813 BETAL (3) = 2.442

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.6578	.3765	.0124	-.1577	-.0718	.0492	-.0116	-.0411	.1802	.6827	.3614	.4087	-.1880
315.000		.3175	.2323	.0539	.1193	-.1123	-.1186	-.0009	.0196	-.0215	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0815	-.0640	.0305	-.0189	.0781	.1312
45.000	.0815	-.0494			.2085	.2270
90.000	.0181	-.0259	.0843	-.0120	.1900	.2503
135.000	.2264	-.0847			.1981	.2170
180.000	.1802	-.0926	.1267	-.0294	.0532	.0203
225.000	.0105	-.1654			.1138	.0000
270.000	-.0975	-.0849	.0058	-.0472	-.0144	.0003
315.000	-.0602	-.1079			.0131	.0586

ALPHAL(5) = 1.813 BETAL (4) = 8.562

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
000	1.7269	.2246	.1787	-.0939	-.0673	-.0482	-.0833	-.0600	-.0204	-.0368	.0007	.2974	.1191	.1303	-.1188
45.000		.1258	.1258	-.1099	-.1094	-.1038	-.0871	-.0718	.0032	-.0028	.0919				
90.000		.1062	.1052	-.1116	-.1118	-.0996	-.0427	-.0388	.0004	-.0007	.0186		.0381	.0851	
135.000		.0989	.0894	-.1170	-.1122	-.0895	-.0687	.0244	-.0186	-.0298	.1364				
180.000	1.7269	.1332	.0915	-.1174	-.1101	-.0937	-.1052	-.0034	-.0368	-.0747	.1522	.5653	.0000	.0605	-.1451
225.000		.1059	.1087	.0496	-.0026	-.1664	-.0256	.0178	-.0270	-.0779	.1273				
270.000		.0000	.6102	.3922	-.0269	-.1633	-.0368	.0324	-.0056	-.0568	.1982	.5590	.4612	.5160	-.1858
315.000		.2869	.3982	.0259	.0792	-.1021	-.1174	.0720	.0049	-.0403	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1156	-.0803	.0683	-.0471	.1540	.2310
45.000	.0511	-.0326			.1272	.1401
90.000	.0082	-.0291	.0850	-.0230	.1606	.2185
135.000	.1304	-.0783			.0655	.0955
180.000	.0844	-.0795	.0815	-.0530	.0181	.0400
225.000	-.0194	-.1270			.0355	.0000
270.000	-.0845	-.0946	-.0331	-.0631	-.0436	-.0313
315.000	-.0214	-.1148			.0296	.1166

ARC97-018 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL (6) = 3.403 BETAL (1) = -5.839

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.2171	.4804	.3649	-.0242	.0127	.0868	.0053	-.0410	.0345	.0316	.1642	.2977	.1371	.1378	-.0872
45.000		.4226	.3392	.0013	.0054	.0312	.0411	.0269	.0028	.0242	.0299				
90.000		.3712	.3642	-.0092	-.0047	-.0280	-.0146	-.0100	-.0407	.0278	.1214		.0972	.0807	
135.000		.3323	.2886	-.0433	-.0464	-.0273	.0077	-.0334	.0499	.0228	.1551				
180.000	2.2173	.2963	.1836	-.0913	-.0346	-.0116	-.0668	.0094	.0593	.0274	.2214	.4870	.0000	.2389	-.0260
225.000		.3054	.1577	.0761	.0019	-.1804	-.0452	-.0132	.0151	.0221	.2670				
270.000		.0000	.7145	.7402	.0061	-.1247	-.0946	.0721	.0593	.0264	.2583	.8884	.5493	.5258	-.1807
315.000		.4709	.3414	.1077	.2201	-.0348	-.0960	.0094	.0467	.0306	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0881	-.0621	.0051	-.0374	.1201	.2043
45.000	.1364	.0019			.3535	.4474
90.000	.1140	.0691	.0986	.1184	.2151	.2648
135.000	.2681	.0197			.4474	.4064
180.000	.2292	.0649	.4345	.0416	.2199	.1598
225.000	.1022	-.1369			-.0607	.0000
270.000	-.1007	-.0659	.0169	-.0544	-.0269	-.0222
315.000	-.0534	-.0847			-.0068	.0378

ALPHAL (6) = 3.376 BETAL (2) = -3.862

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.1366	.4386	.3307	-.0376	-.0039	.0636	-.0148	-.0469	.0189	.0219	.0489	.3341	.1241	.0981	-.1070
45.000		.3661	.3475	-.0229	-.0178	.0079	.0141	.0008	-.0159	.0110	.0198				
90.000		.3128	.3072	-.0317	-.0297	-.0512	-.0364	-.0316	-.0382	.0184	.1170		.0648	.0501	
135.000		.2799	.2473	-.0582	-.0631	-.0380	-.0148	-.0472	.0289	.0075	.1075				
180.000	2.1366	.2511	.1527	-.1017	-.0749	-.0321	-.0848	.0116	.0373	.0089	.1872	.3752	.0000	.1669	-.0225
225.000		.2736	.1302	.0602	-.0129	-.1929	-.0462	-.0131	.0187	.0114	.1995				
270.000		.0000	.6809	.3519	-.0074	-.1411	-.0932	.0492	.0475	.0201	.2143	.6102	.3808	.3183	-.1880
315.000		.4428	.3202	.0692	.2032	-.0525	-.1002	-.0117	.0373	.0233	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1153	-.0502	.0387	-.0227	.1199	.1983
45.000	.1108	-.0031			.2879	.3765
90.000	.0953	.0318	.1119	.0875	.1980	.2308
135.000	.2306	.0171			.3636	.3745
180.000	.2470	.0112	.2932	.0488	.1921	.1346

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL(6) = 3.376 BETAL (2) = -3.862

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0684	-.1350			-.0635	.0000
270.000	-.0987	-.0757	-.0024	-.0547	-.0303	-.0216
315.000	-.0527	-.0834			.0300	.1015

ALPHAL(6) = 3.362 BETAL (3) = .379

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9722	3668	.2806	-.0545	-.0316	.0228	-.0419	-.0559	.0111	-.0007	-.0077	.2863	.1530	.1636	-.1185
45.000		2662	.2543	-.0601	-.0615	-.0448	-.0321	-.0451	-.0381	-.0018	-.0053				
90.000		2136	.2063	-.0737	-.0785	-.0898	-.0548	-.0622	-.0157	.0074	.0889		.0362	.0408	
135.000		1909	.1611	-.0925	-.0953	-.0553	-.0430	-.0689	.0116	-.0046	.0752				
180.000	1.9722	1793	.1011	-.1211	-.1037	-.0758	-.1023	.0464	.0221	-.0169	.2049	.4500	.0000	.1257	-.0787
225.000		2200	.0924	.0336	-.0431	-.2027	-.1173	-.0112	.0169	-.0225	.2857				
270.000		0000	.6209	.3539	-.0239	-.1497	-.1547	.0677	.0422	-.0053	.2305	.7252	.4025	.4175	-.1890
315.000		3875	.3142	.0172	.1653	-.0765	-.1114	-.0472	.0425	.0053	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.1078	-.0532	.0621	-.0114	.1232	.1877
45.000	.0720	-.0079			.2244	.2837
90.000	.0492	.0013	1225	.0472	.1647	.2108
135.000	.2260	-.0465			.2934	.3063
180.000	2260	-.0339	.2289	- 0121	.0995	.0560
225.000	.0482	-.1727			-.0212	.0000
270.000	-.0939	- 0922	.0350	-.0508	.0025	-.0036
315.000	-.0622	-.1051			.0266	.0799

ALPHAL(6) = 3.344 BETAL (4) = 3.913

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
000	1.7887	.3023	.2483	-.0651	-.0361	-.0040	-.0630	-.0655	-.0062	-.0410	-.0279	.2819	.1397	.1958	-.1145
45.000		.1727	.1774	-.0907	- 0927	-.0853	-.0822	-.0861	-.0453	-.0104	.0765				
90.000		.1297	.1335	-.1013	-.1063	-.1181	-.0668	-.0714	-.0208	.0005	.0758		.0322	.0319	
135.000		.1160	.1012	- .133	- 1181	-.0707	-.0627	-.0072	-.0090	-.0181	.1468				
180.000	1.7887	.1142	.0531	-.1356	-.1098	-.1126	-.1119	.0276	-.0174	-.0512	.1841	.5456	.0000	.1758	-.1226
225.000		718	0798	.0051	-.0543	-.2051	-.1129	-.0156	-.0002	-.0705	.2465				

ARC87-019 IA81 LVAF(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL(8) = 3.34[illegible] BETAL (4) = 3.813

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5967	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.5692	.3465	-.0388	-.1618	-.1509	.0827	.0318	-.0388	.2319	.7190	.4402	.3885	-.1841
315.000		.3458	.4904	.0002	.1147	-.0808	-.1119	.0105	.0398	-.0227	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1204	-.0731	.0738	-.0297	.1668	.2380
45.000	.0638	-.0239			.1605	.1769
90.000	.0227	-.0082	.1118	.0223	.1207	.1438
135.000	.1619	-.0679			.1561	.1665
180.000	.1357	-.0703	.1350	-.0639	.0272	.0572
225.000	-.0054	-.1461			.0645	.0000
270.000	-.0850	-.0881	-.0039	-.0556	-.0294	-.0142
315.000	-.0399	-.1136			.0450	.1208

ALPHAL(6) = 3.340 BETAL (5) = 8.584

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7117	.2773	.2310	-.0680	-.0265	-.0183	-.0712	-.0573	-.0203	-.0428	-.0274	.3335	.1125	.1684	-.1120
45.000		.1397	.1397	-.1082	-.1060	-.0840	-.0974	-.1006	-.0321	-.0176	.0714				
90.000		.0941	.0994	-.1139	-.1186	-.1238	-.0642	-.0542	-.0237	-.0211	.0834		.0 52	.0412	
135.000		.0850	.0703	-.1252	-.1259	-.0809	-.0698	.0070	-.0187	-.0310	.1258				
180.000	1.7117	.0934	.0415	-.1384	-.1001	-.1168	-.1110	-.0007	-.0317	-.0612	.1225	.5827	.0000	.0345	-.1352
225.000		.1587	.1282	.0003	-.0055	-.2012	-.0817	-.0241	-.0232	-.0612	.1644				
270.000		.0000	.5464	.3398	-.0540	-.1643	-.0978	.0824	.0063	-.0588	.2270	.5378	.3532	.3051	-.1893
315.000		.3267	.4933	-.0013	.1099	-.0733	-.1047	.0496	.0215	-.0362	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0960	-.0787	.0803	-.0283	.1638	.2249
45.000	.0844	-.0486			.1599	.1896
90.000	.0352	-.0092	.1037	.0199	.0585	.1156
135.000	.1232	-.0622			.0964	.1154
180.000	.1092	-.0776	.0786	-.0589	.0140	.0461
225.000	-.0214	-.1209			.0803	.0000
270.000	-.0940	-.0794	-.0136	-.0482	-.0258	-.0127
315.000	-.0102	-.0930			.0384	.1232

ARC97-019 IA81 LVAP(ALLML SEALED) SRM BOOSTER (RETS36)

ALPHA(7) = 6.181 BETA (1) = -3.833

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.1251	.4989	.3804	-.0158	.0212	.0877	.0043	-.0185	.0221	.0305	.0231	.3752	.1809	.2579	-.0992
45.000		.3888	.3727	-.0123	-.0091	.0090	.0198	.0075	-.0144	-.0018	.0077				
90.000		.2996	.3027	-.0354	-.0380	-.0728	-.0645	-.0668	-.0833	-.0088	.1062		.0430	.0444	
135.000		.2540	.2180	-.0690	-.0774	-.0582	-.0325	-.0649	.0045	-.0120	.1203				
180.000	2.1251	.2152	.1130	-.1178	-.0652	-.0547	-.0934	-.0179	.0333	.0182	.2080	.3556	.0000	.0958	-.0165
225.000		.2330	.1364	.0299	-.0690	-.2114	-.0725	.0075	-.0008	.0340	.2630				
270.000		.0000	.6728	.3308	-.0526	-.1411	-.1511	.0172	.0831	.0217	.2851	.4704	.3314	.4200	-.1531
315.000		.4881	.3913	.0840	.2357	-.0186	-.0844	-.0228	.0540	.0354	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
000	.1388	-.0345	.1177	-.0031	.1912	.2619
45.000	.1105	.0429			.2305	.2859
90.000	.1081	.0805	.1341	.0923	.2260	.2539
135.000	.2000	.0142			.4210	.3363
180.000	.2175	.0251	.3224	.0293	.1640	.1101
225.000	.0542	-.1480			-.0230	.0000
270.000	-.0811	-.0696	.0077	-.0568	-.0383	-.0295
315.000	.0544	-.0247			.0770	.1795

ALPHA(7) = 6.170 BETA (2) = -1.684

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.0317	.4818	.3589	-.0254	.0064	.0667	-.0110	-.0245	.0092	.0220	.0055	.3702	.1457	.2221	-.1064
45.000		.3362	.3193	-.0339	-.0298	-.0145	-.0071	-.0273	-.0308	-.0197	-.0181				
90.000		.2489	.2489	-.0583	-.0607	-.0969	-.0788	-.0784	-.0726	-.0180	.0908		.0231	.0081	
135.000		.2104	.1718	-.0875	-.0934	-.0604	-.0437	-.0787	-.0038	-.0850	.0747				
180.000	2.0317	.1757	.0846	-.1258	-.0952	-.0788	-.0980	-.0807	.0268	-.0048	.2034	.3448	.0000	.1005	-.0217
225.000		.2082	.1070	.0211	-.0799	-.2132	-.1007	-.0047	.0199	-.0015	.2944				
270.000		.0000	.6345	.3378	-.0579	-.1464	-.1487	.0016	.0599	.0052	.2623	.4494	.2857	.3600	-.1471
315.000		.4630	.3949	.0256	.2229	-.0270	-.0798	-.0280	.0497	.0284	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
000	.1778	-.0388	.1249	-.0087	.2017	.2573
45.000	.0890	.0451			.2023	.2917
90.000	.0897	.0607	.1513	.0725	.2072	.2382
135.000	.1669	.0138			.3078	.3295
180.000	.2303	-.0173	.2552	.0004	.1532	.0911

ARC87-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RET838)

ALPHAL(7) = 6.170 BETAL (2) = -1.884

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0507	-.1488			-.0713	.0000
270.000	-.0715	-.0701	.0192	-.0424	-.0218	-.0079
315.000	.0580	-.0952			.0857	.1887

ALPHAL(7) = 6.183 BETAL (3) = .403

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9599	.4272	.3421	-.0319	-.0036	.0508	-.0262	-.0220	.0128	.0049	-.0140	.3222	.1425	.2203	-.1170
45.000		.2854	.2780	-.0532	-.0541	-.0443	-.0352	-.0453	-.0499	-.0368	-.0410				
90.000		.1985	.1985	-.0742	-.0833	-.1119	-.0902	-.0937	-.0464	-.0168	.0972		.0186	-.0081	
135.000		.1653	.1394	-.1004	-.1070	-.0645	-.0565	-.0857	-.0119	-.0252	.1253				
180.000	1.9599	.1394	.0630	-.1348	-.1101	-.1014	-.1055	-.0064	.0235	-.0168	.2137	.4521	.0000	.0511	-.0574
225.000		.1786	.0980	-.0015	-.0972	-.2149	-.1473	-.0022	.0176	-.0228	.2671				
270.000		.0000	.5723	.3457	-.0690	-.1519	-.1452	.0354	.0572	-.0119	.2636	.4416	.3008	.3127	-.1880
315.000		.4391	.3960	.0006	.2123	-.0377	-.0812	-.0248	.0590	.0190	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1712	-.0613	.0824	-.0283	.1937	.2804
45.000	.0718	.0565			.1600	.1784
90.000	.0917	.0477	.1506	.0615	.1916	.2132
135.000	.1376	.0000			.2334	.2509
180.000	.2244	.0220	.2442	-.0144	.1255	.0821
225.000	.0338	-.1320			-.0443	.0000
270.000	-.0846	-.0878	-.0198	-.0255	.0180	.0400
315.000	.0544	-.1052			.0980	.1979

ALPHAL(7) = 6.147 BETAL (4) = 2.505

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8581	.3924	.3148	-.0401	-.0100	.0385	-.0391	-.0422	.0149	-.0182	-.0358	.3021	.1474	.2165	-.1199
45.000		.2378	.2329	-.0692	-.0706	-.0681	-.0572	-.0683	-.0672	-.0695	-.0126				
90.000		.1544	.1600	-.0918	-.1009	-.1288	-.0975	-.1008	-.0383	-.0189	.0814		.0243	-.0010	
135.000		.1327	.1080	-.1138	-.1191	-.0685	-.0631	-.0763	-.0175	-.0161	.1460				
180.000	1.8581	.1081	.0465	-.1410	-.1236	-.1163	-.1090	.0058	.0109	-.0351	.1796	.5630	.0000	.0611	-.0845
225.000		.1495	.1078	-.0128	-.1041	-.2152	-.1372	-.0314	.0172	-.0484	.2796				

ARC87-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS38)

ALPHAL(7) = 6.147 BETAL (4) = 2.505

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.5171	.3392	-.0675	-.1591	-.1427	.0681	.0505	-.0249	.2603	.4253	.3046	.2723	-.1866
315.000		.4151	.4039	-.0027	.2043	-.0405	-.0819	-.0154	.0691	.0060	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1421	-.0743	.0863	-.0186	.1932	.2918
45.000	.0685	.0289			.1681	.1939
90.000	.0860	.0209	.1504	.0490	.1514	.1647
135.000	.1228	-.0293			.1908	.2010
180.000	.2253	-.0199	.1828	-.0448	.0654	.0273
225.000	.0219	-.1455			.0685	.0000
270.000	-.0883	-.0719	.0333	-.0190	.0274	.0266
315.000	-.0004	-.1068			.1054	.2049

ALPHAL(7) = 6.143 BETAL (5) = 3.925

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7680	.3625	.3018	-.0421	.0005	.0245	-.0488	-.0373	.0013	-.0317	-.0376	.3181	.1306	.1761	-.1094
45.000		.1990	.1966	-.0848	-.0848	-.0611	-.0871	-.0944	-.0927	-.0688	.0634				
90.000		.1196	.1227	-.1048	-.1126	-.1429	-.0979	-.1073	-.0224	-.0148	.0995		.0005	.0026	
135.000		.0989	.0828	-.1192	-.1279	-.0715	-.0728	-.0342	-.0131	-.0271	.0971				
180.000	1.7680	.0786	.0317	-.1471	-.1056	-.1272	-.1038	.0030	-.0117	-.0499	.1479	.5926	.0000	.0879	-.1209
225.000		.1325	.0965	-.0326	-.1143	-.2153	-.1344	-.0450	-.0015	-.0671	.2609				
270.000		.0000	.5258	.3350	-.0614	-.1620	-.1435	.1018	.0336	-.0524	.2833	.4720	.3188	.2296	-.1891
315.000		.3940	.5417	-.0033	.1933	-.0429	-.0780	-.0043	.0620	-.0124	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1212	-.0732	.0959	-.0126	.1854	.2602
45.000	.0753	-.0217			.1561	.1916
90.000	.0453	.0142	.1373	.0434	.1071	.1123
135.000	.0887	-.0353			.1412	.1516
180.000	.1798	-.0516	.1318	-.0659	.0270	.0226
225.000	-.0004	-.1411			.0862	.0000
270.000	-.0898	-.0830	.0072	-.0346	-.0025	.0114
315.000	.0145	-.0913			.0888	.1870

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS39) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 878.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAL(1) = -6.974 BETAL (1) = .604

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5188	.0844	.1621	-.2893	-.2476	-.2230	-.1630	-.0689	-.0760	-.0718	.2008	.3168	.0805	.0486	-.2564
45.000		.1379	.1099	-.2932	-.2253	-.1568	-.1581	-.1504	-.1436	-.1958	.0480				
90.000		.1808	.2133	-.2606	-.2156	-.2208	-.1487	-.2720	-.2529	-.2059	.0313		-.0856	-.0441	
135.000		.2842	.3596	-.2023	-.1454	-.1057	-.0226	-.0951	-.1700	-.2023	-.1119				
180.000	1.5189	.3770	.5091	-.1518	-.0869	-.0562	.1655	-.0145	-.0799	-.1162	.1185	.5919	.0000	-.0164	-.3534
225.000		.3222	.6745	-.1180	-.0449	-.0879	.2083	.0207	-.0137	-.1142	.3323				
270.000		.0000	.7418	-.0345	.0204	-.4564	-.1801	-.0740	-.0617	-.0646	.3268	.7736	.3857	.5651	-.3557
315.000		.0461	.2297	-.3210	-.4044	-.3916	-.2513	-.1070	-.0349	-.0398	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0094	-.1835	.0500	.1165	.2350	.1445
45.000	.0065	-.1813			.0410	-.0013
90.000	-.1072	-.1191	.0000	.0140	.0679	.1154
135.000	.0744	-.1758			.1539	.3635
180.000	.0466	-.2353	.0121	.0429	.2774	.2537
225.000	-.1386	-.1677			-.0091	.0000
270.000	-.1861	-.1395	-.0626	-.1230	-.1916	-.0859
315.000	-.1266	-.1845			.0172	.0103

ALPHAL(2) = -4.819 BETAL (1) = 3.694

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5777	.1705	.2520	-.2292	-.2094	-.1799	-.1779	-.0902	-.0836	-.0805	.1270	.2025	-.0537	.0361	-.2009
45.000		.2328	.2068	-.2566	-.1841	-.1156	-.1500	-.1308	-.1206	-.1122	.0696				
90.000		.2906	.3034	-.2243	-.1543	-.1444	-.1148	-.1590	-.2390	-.1832	.0199		-.0221	.0239	
135.000		.3500	.4008	-.1732	-.1159	-.0497	.0983	.0360	-.0850	-.0896	-.0201				
180.000	1.5777	.3666	.5040	-.1585	-.0987	-.0833	.2545	.0728	.0034	-.0288	.2357	.4798	.0000	.2586	-.2904
225.000		.3015	.6336	-.1361	-.0702	-.2263	.2818	.0360	.0257	-.0421	.4179				
270.000		.0000	.7751	-.0299	-.1252	-.3808	-.1692	-.2150	-.0137	-.0498	.3775	.9739	.8312	.6532	-.4424
315.000		.1297	.3127	-.2714	-.3149	-.3377	-.1721	-.1680	-.0098	-.0301	.0000				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS39)

ALPHAL(2) = -4.819 BETAL (1) = -3.694

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0208	-.1434	.0218	-.0886	.0242	-.0148
45.000	.0545	-.1703			.1072	.1483
90.000	-.1818	-.2097	.0000	-.0399	.1910	.2593
135.000	.2268	-.2740			.1965	.3667
180.000	.2211	-.2356	.0578	.0820	.2299	.3465
225.000	-.0814	-.1438			.0964	.0000
270.000	-.1655	-.1038	-.0434	-.0885	-.0700	-.0656
315.000	-.1134	-.1067			.0142	-.0191

ALPHAL(2) = -4.737 BETAL (2) = .543

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5320	.1168	.2212	-.2597	-.2258	-.2108	-.1707	-.0274	-.0453	-.0529	.1926	.3212	.0538	.0760	-.2168
45.000		.1679	.1475	-.2726	-.2140	-.1272	-.1368	-.0866	-.0478	-.0807	.1302				
90.000		.2056	.2193	-.2594	-.2018	-.1647	-.1080	-.1855	-.1451	-.1397	.1032		-.0618	.0010	
135.000		.2650	.3065	-.2101	-.1513	-.1020	.0043	-.0546	-.1394	-.1323	.0503				
180.000	1.5320	.3154	.4645	-.1705	-.1119	-.0936	.1534	-.0088	-.0555	-.1149	.1593	.7243	.0000	-.0422	-.3296
225.000		.2800	.6295	-.1375	-.0914	-.1717	.2075	-.0158	-.0300	-.1094	.3461				
270.000		.0000	.7888	-.0098	-.0959	-.3190	-.1989	-.1090	-.0655	-.0548	.3397	.8554	.4000	.5540	-.3383
315.000		.0919	.3195	-.2780	-.3311	-.3221	-.1951	-.1266	-.0365	-.0294	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0197	-.1979	.1352	-.1458	.1499	.0848
45.000	.0374	-.1601			.1008	.0935
90.000	-.0828	-.1191	.0000	.0325	.1696	.2222
135.000	.1445	-.2258			.1677	.3235
180.000	.1288	-.2178	.0280	.0530	.1696	.2065
225.000	-.1092	-.1986			.0079	.0000
270.000	-.1707	-.1412	-.0526	-.1154	-.0866	-.0730
315.000	-.1284	-.1896			-.0206	.0180

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS39)

ALPHAL(2) = -4.691 BETAL (3) = 4.125

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4711	.0626	.2178	-.2701	-.2520	-.2325	-.0940	-.0092	-.0226	.0262	.2885	.4920	-.0352	.0151	-.2219
45.000		.0934	.0943	-.2903	-.2278	-.1430	-.0968	.0039	-.0366	.0115	.2572				
90.000		.1200	.1350	-.2935	-.2450	-.1831	-.1054	-.1488	-.1023	-.0367	.2036		-.1529	-.1366	
135.000		.1686	.2481	-.2453	-.2039	-.1678	-.0678	-.1252	-.1704	-.1274	.2218				
180.000	1.4711	.2582	.4204	-.1838	-.1414	-.0997	.0246	-.0583	-.1106	-.1280	.2001	.6713	.0000	-.1042	-.3168
225.000		.2394	.6198	-.1395	-.1086	-.0761	.1010	-.0369	-.0628	-.0416	.3013				
270.000		.0000	.8214	.0428	-.1124	-.2708	-.2291	-.0796	-.0541	.0025	.3322	.6630	.4063	.5729	-.3559
315.000		.0629	.3144	-.2810	-.3517	-.3398	-.1577	-.0548	-.0316	.0002	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0533	-.2014	.0616	-.1430	.2997	.3572
45.000	.1971	-.2266			.1420	.1166
90.000	-.0019	-.0795	.0000	.0364	.1055	.0623
135.000	.0447	-.1241			.2272	.3074
180.000	.0705	-.1462	.1433	.0737	.2282	.1680
225.000	-.1666	-.1347			-.0220	.0000
270.000	-.1736	-.1283	-.0549	-.0964	-.0731	-.0842
315.000	-.1372	-.1864			.0629	.1297

ALPHAL(3) = -.315 BETAL (1) = -5.807

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5946	.2950	.3840	-.1974	-.1686	-.1397	-.1202	-.0481	-.0123	.0193	.2460	.3416	.0157	.2008	-.1193
45.000		.3469	.3343	-.1593	-.1337	-.0529	-.0833	-.0407	.0154	-.0267	.2432				
90.000		.3668	.3492	-.2022	-.1739	-.0574	-.0330	.0068	-.0063	-.0123	.1903		.0806	.1281	
135.000		.3514	.3403	-.1928	-.1286	-.0558	-.0776	.0872	.0349	.0188	.3884				
180.000	1.5946	.3067	.3992	-.1877	-.1422	-.1442	.1477	.1048	-.0319	-.0007	.4853	.6332	.0000	.3261	-.1593
225.000		.2478	.5072	-.1902	-.1763	-.1871	.0318	.0717	.0028	.0018	.6019				
270.000		.0000	.8012	-.0141	-.3254	-.2389	-.1890	-.2408	-.0998	-.0293	.3661	1.1083	.7756	.6687	-.4132
315.000		.2389	.4999	-.1969	-.1594	-.2062	-.0967	-.0989	-.0088	.0015	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0051	-.2265	-.0719	-.1620	.0953	.2069
45.000	.1167	-.1943			.3015	.3732
90.000	-.0298	-.1431	.0000	-.0572	.2699	.3186
135.000	.3384	-.2204			.2050	.3071
180.000	.3339	-.2802	.1105	.0678	.1406	.2078

ARC97-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS39)

ALPHAL(3) = -.315 BETAL (1) = -5.807

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0015	-.1717			.1772	.0000
270.000	-.1673	-.1135	-.0007	-.0649	-.0336	-.0432
315.000	-.1425	-.1517			-.0125	.0162

ALPHAL(3) = -.306 BETAL (2) = -3.771

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4780	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5833	.2818	.3894	-.2027	-.1570	-.1523	-.1237	-.0254	-.0054	-.0200	.2578	.3463	.0382	.2539	-.1193
45.000		.2979	.3026	-.2047	-.1465	-.0648	-.0868	-.0152	.0179	-.0325	.2455				
90.000		.3125	.3118	-.2210	-.1405	-.0734	-.0572	-.0060	-.0133	-.0184	.1998		.0668	.1039	
135.000		.3020	.3115	-.2041	-.1434	-.0712	-.0148	.0637	.0018	-.0037	.3544				
180.000	1.5833	.2719	.3989	-.1977	-.1551	-.1484	.1124	.0817	-.0160	.0104	.4515	.6179	.0000	.2830	-.1858
225.000		.2232	.5008	-.1949	-.1863	-.1942	.0637	.0420	-.0175	-.0248	.5601				
270.000		.0000	.8202	.0032	-.3259	-.2547	-.2156	-.2408	-.1060	-.0335	.3741	1.0370	.7154	.6685	-.4199
315.000		.2150	.4945	-.2006	-.1755	-.2290	-.0983	-.1072	-.0296	-.0078	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0118	-.2001	-.0219	-.1116	.1213	.1951
45.000	.1248	-.1795			.2898	.3607
90.000	-.0118	-.1369	.0000	-.0550	.2549	.2980
135.000	.3281	-.2163			.1903	.2960
180.000	.3199	-.2634	.0998	.0627	.1280	.2047
225.000	-.0005	-.1515			.1191	.0000
270.000	-.1490	-.0965	-.0375	-.0763	-.0477	-.0469
315.000	-.1220	-.1143			-.0197	-.0020

ALPHAL(3) = -.280 BETAL (3) = .465

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4780	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5344	.2040	.3446	-.2156	-.1788	-.1797	-.0855	-.0111	-.0138	-.0094	.2383	.3908	-.0230	.1621	-.1540
45.000		.2150	.2217	-.2421	-.1727	-.0951	-.1030	.0231	.0148	-.0216	.2496				
90.000		.2201	.2150	-.2608	-.1794	-.0989	-.0748	-.0247	.0105	-.0244	.2017		-.0118	.0172	
135.000		.2191	.2321	-.2282	-.1781	-.0984	.0485	-.0148	-.0257	-.0388	.3127				
180.000	1.5344	.2049	.3518	-.2114	-.1715	-.1620	.0513	-.0155	-.0711	-.0647	.3368	.8243	.0000	-.0121	-.2624
225.000		.1778	.4320	-.1987	-.1864	-.2044	.0735	-.0088	-.0347	-.0438	.4044				

ARC87-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS39)

ALPHAL(3) = -.260 BETAL (3) = .465

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.8371	.0352	-.3328	-.2697	-.2193	-.2171	-.1247	-.0554	.2667	.7990	.3091	.4050	-.3315
315.000		.1733	.4890	-.2047	-.1851	-.2643	-.0903	-.0532	-.0541	-.0254	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0025	-.1735	.0131	-.0635	.1150	.1503
45.000	.1063	-.1320			.2911	.3056
90.000	-.0109	-.1462	.0000	.0143	.3355	.3573
135.000	.2759	-.2384			.2073	.3075
180.000	.2041	-.1921	.0955	.0840	.1298	.1607
225.000	-.1168	-.2092			.1021	.0000
270.000	-.1684	-.1389	.0039	-.0816	-.0467	-.0375
315.000	-.1472	-.1766			-.0379	-.0148

ALPHAL(3) = -.240 BETAL (4) = 4.034

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4720	.1563	.3068	-.2323	-.1973	-.2179	-.0648	-.0267	-.0162	.0468	.2929	.4192	.0742	.0678	-.1773
45.000		.1371	.1835	-.2595	-.2160	-.1421	-.0845	.0326	-.0039	.0378	.3028				
90.000		.1349	.1383	-.2962	-.2220	-.1269	-.0267	.0161	-.0029	.0231	.3050		-.1030	-.1132	
135.000		.1367	.1674	-.2579	-.2093	-.1313	.0088	-.0575	-.0575	.0033	.3250				
180.000	1.4720	.1488	.3128	-.2271	-.1950	-.1827	.0266	-.0943	-.0444	.1095	.3085	.7007	.0000	-.1400	-.2580
225.000		.1500	.4617	-.2026	-.1957	-.2128	.0969	-.0899	-.0246	.2430	.3393				
270.000		.0000	.8205	.0434	-.3352	-.2832	-.1806	-.1426	-.0611	.1127	.2837	.7219	.3204	.3822	-.3320
315.000		.1503	.4851	-.2020	-.1782	-.2327	-.0632	-.0480	-.0281	.0420	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0844	-.1156	.0543	.0077	.1698	.1753
45.000	.1388	-.1574			.2377	.2408
90.000	.0789	-.1052	.0000	.0277	.2390	.2273
135.000	.1235	-.1257			.1759	.1609
180.000	.0998	-.0897	.1239	.1038	.1791	.1342
225.000	-.1181	-.1552			.1176	.0000
270.000	-.1545	-.1191	.0270	-.0727	-.0315	-.0267
315.000	-.1109	-.1710			.0476	.0780

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS39)

ALPHAL(3) = -.217 BETAL (5) = 6.721

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4385	.1225	.2839	-.2362	-.2084	-.2211	-.0556	-.0019	.0501	.0337	.2731	.4303	.0858	.0849	-.1884
45.000		.0956	.1575	-.2786	-.2280	-.1473	-.0413	.0998	.0374	.0123	.2817				
90.000		.0982	.1048	-.3048	-.2233	-.1165	-.0137	.1149	.0282	-.0188	.2985		-.1412	-.1667	
135.000		.1004	.1361	-.2692	-.2192	-.1463	-.0146	.0203	-.0089	-.0133	.3214				
180.000	1.4385	.1244	.3034	-.2242	-.1995	-.1815	.0003	-.0984	-.0092	.1737	.2658	.6988	.0000	-.1093	-.2780
225.000		.1354	.4607	-.1986	-.1897	-.1767	.0846	-.1162	-.0005	.2623	.3885				
270.000		.0000	.8065	.0432	-.3269	-.2756	-.1613	-.1130	.0720	.1486	.3526	.8216	.5171	.6540	-.3382
315.000		.1354	.4677	-.2068	-.1818	-.2156	-.0464	-.0445	.0513	.0641	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0666	-.1519	.1363	-.0054	.2282	.2326
45.000	.1240	-.1791			.2355	.1988
90.000	.0751	-.1361	.0000	.0084	.1505	.1414
135.000	.0881	-.1703			.1307	.1282
180.000	.0834	-.1503	.1095	.0314	.1288	.0857
225.000	-.0927	-.1481			-.0247	.0000
270.000	-.1868	-.1370	-.0834	-.0954	-.0720	-.0718
315.000	-.1101	-.1744			.0508	.1117

ALPHAL(4) = 3.490 BETAL (1) = -3.688

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5672	.3588	.4898	-.1578	-.1009	-.0952	-.0710	.0225	.0292	.0177	.2352	.3918	.0385	.0101	-.1303
45.000		.3436	.3980	-.1821	-.1138	-.0429	-.0726	-.0159	.0380	.0132	.2968				
90.000		.2965	.3078	-.2261	-.1581	-.1382	-.1183	-.0368	.0082	-.0152	.3022		.0510	.0648	
135.000		.2454	.2210	-.2543	-.1885	-.1072	-.0742	.0272	.0391	.0030	.3492				
180.000	1.5672	.1868	.2567	-.2341	-.1990	-.1227	-.0127	.0108	.0075	.0199	.4212	.5768	.0000	.2257	-.0374
225.000		.1490	.3319	-.2628	-.3078	-.1736	-.1056	.0092	.0075	.0340	.4952				
270.000		.0000	.7625	-.0350	-.4028	-.1958	-.0482	.0415	.0118	.0231	.1440	.7379	.4571	.3229	-.3600
315.000		.2959	.6267	-.1385	-.0274	-.2026	-.0628	.0349	.0107	.0215	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0455	-.1517	.0278	-.0918	.2760	.3486
45.000	.1938	-.1371			.3398	.3438
90.000	.0855	-.0500	.0000	-.0083	.2757	.2403
135.000	.3456	-.1891			.1801	.2522
180.000	.2880	-.2233	.1826	.0197	.1164	.1411

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS39)

ALPHAL(4) = 3.490 BETAL (1) = -3.688

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0719	-.2410			.2142	.0000
270.000	-.1020	-.1077	.1224	-.0291	.0398	.0219
315.000	-.1039	-.1108			.0148	.0583

ALPHAL(4) = 3.484 BETAL (2) = .583

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5168	.3121	.4852	-.1694	-.1191	-.1298	-.0975	.0081	-.0095	.0021	.2137	.3919	.0535	.0243	-.1817
45.000		.2654	.3099	-.2115	-.1555	-.1028	-.1067	-.0177	-.0012	-.0075	.2972				
90.000		.2108	.2073	-.2615	-.2021	-.1723	-.1247	-.0079	.0121	-.0334	.2876		-.0760	-.0827	
135.000		.1682	.1468	-.2784	-.2151	-.1260	-.0399	.0051	.0264	-.0034	.3159				
180.000	1.5168	.1183	.2455	-.2524	-.2296	-.1102	-.0266	.0013	-.0238	.0117	.3777	.6083	.0000	-.0031	-.1390
225.000		.0968	.3225	-.2737	-.3247	-.1888	-.0899	.0000	-.0129	.0789	.3911				
270.000		.0000	.7770	-.0145	-.3902	-.1980	-.0297	.0304	-.0030	.0678	.1563	.5491	.2590	.1695	-.2638
315.000		.2752	.6318	-.1384	-.0386	-.1327	-.0408	.0323	-.0085	.0305	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0589	-.1164	.1056	.0463	.2389	.2868
45.000	.1295	-.1202			.3930	.3996
90.000	.0650	-.0600	.0000	.0700	.2358	.1967
135.000	.2730	-.1974			.2654	.3362
180.000	.1617	-.1661	.1548	.0731	.1296	.1233
225.000	-.0845	-.2303			.2395	.0000
270.000	-.1373	-.1118	.0687	-.0385	.0194	.0149
315.000	-.1208	-.1452			.0555	.0982

ALPHAL(4) = 3.426 BETAL (3) = 4.141

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4588	.2629	.4132	-.1827	-.1407	-.1629	-.0920	-.0512	-.0284	-.0011	.2894	.5930	.0778	.0681	-.2281
45.000		.1655	.2458	-.2506	-.2091	-.1768	-.1228	-.0256	-.0281	.0688	.2818				
90.000		.1129	.1267	-.2932	-.2458	-.2009	-.0879	.0210	-.0075	.0404	.2669		-.1241	-.1480	
135.000		.0845	.0938	-.2923	-.2316	-.1230	.0017	.0064	-.0058	.1005	.3307				
180.000	1.4588	.0518	.2172	-.2676	-.2455	-.1660	-.0161	-.0151	-.0142	.1912	.3484	.6542	.0000	-.1142	-.1665
225.000		.0472	.3029	-.2825	-.3428	-.2322	-.0487	-.0050	-.0001	.2159	.3437				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS39)

ALPHAL(4) = 3.426 BETAL (3) = 4.141

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.8049	.0283	-.3227	-.2274	-.0012	.0004	-.0040	.1433	.2387	.5087	.2138	.1454	-.2737
315.000		.2553	.6325	-.1376	-.0417	-.1167	.0181	.0042	-.0123	.0615	.0000				

X/LS	.8102	.8861	.9120	.9130	.9344	.9565
PHI						
.000	.1180	-.0910	.2533	.0577	.3810	.4243
45.000	.2082	-.1233			.4069	.3555
90.000	.0804	-.0301	.0000	.0510	.1552	.1284
135.000	.1704	-.1318			.2337	.2231
180.000	.0795	-.0647	.1599	.0870	.1312	.0663
225.000	-.0808	-.1797			.1952	.0000
270.000	-.1331	-.0938	.1315	-.0123	.0523	.0263
315.000	-.0948	-.1512			.1911	.2425

ALPHAL(5) = 6.227 BETAL (1) = .654

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5014	.3695	.5059	-.1570	-.0923	-.1037	-.0674	.0042	-.0199	-.0085	.2668	.5131	.2448	.1756	-.2239
45.000		.2133	.3506	-.2121	-.1528	-.1106	-.1244	-.0563	-.0433	-.0200	.3255				
90.000		.1811	.2022	-.2689	-.2200	-.2396	-.1750	-.0578	-.0288	-.0264	.3039		-.0023	-.1047	
135.000		.1385	.0984	-.3002	-.2333	-.1496	-.0895	.0007	.0247	.0062	.2589				
180.000	1.5014	.0804	.1666	-.2884	-.2514	-.1601	-.0364	.0032	.0119	.1048	.3485	.5229	.0000	-.0433	-.1078
225.000		.0508	.2329	-.3167	-.3826	-.2408	-.0753	-.0050	.0231	.1656	.3776				
270.000		.0000	.7353	-.0387	-.3896	-.2469	-.0300	-.0018	.0139	.1329	.2957	.5200	.2364	.2212	-.2763
315.000		.3219	.6716	-.1198	-.0076	-.1076	-.0443	.0418	.0078	.0257	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1197	-.0963	.2037	.0456	.3058	.3317
45.000	.1456	-.0928			.3703	.3769
90.000	.0963	-.0350	.0000	.0792	.1882	.1522
135.000	.2200	-.1649			.2967	.3166
180.000	.1204	-.1236	.1664	.0725	.1228	.1028
225.000	-.0693	-.2220			.1927	.0000
270.000	-.1423	-.0982	.1101	-.0150	.0526	.0365
315.000	-.0969	-.1544			.1560	.2006

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS40) (04 SEP 75)

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAL(1) = -6.970 BETAL (1) = .195

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7309	.1288	.0792	-.1521	-.1270	-.1281	-.1541	-.1184	-.0842	-.0485	.1117	.2709	.0540	.0823	-.1873
45.000		.1738	.1369	-.1673	-.1815	-.0726	-.0897	-.1103	-.1793	-.1878	-.0938				
90.000		.2140	.2146	-.1327	-.1257	-.1508	-.1118	-.1284	-.2186	-.1900	-.0682		-.0362	-.0238	
135.000		.3056	.2983	-.0939	-.0646	-.0356	-.0220	-.0323	-.0646	-.1208	-.0595				
180.000	1.7309	.4180	.4016	-.0050	.0282	.0072	.1362	.0863	.0097	-.0478	.0162	.3073	.0000	.2515	-.2210
225.000		.3990	.5901	.0813	.1041	-.0700	.2512	.1238	.0260	-.0150	.2040				
270.000		.0000	.9063	.2242	.1231	-.2854	-.0965	-.0968	-.0276	-.0432	.2105	.6973	.3043	.3166	-.2943
315.000		.1281	.3525	-.1148	-.2191	-.3201	-.1673	-.1335	-.0156	-.0286	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0391	-.1416	.0554	-.1127	.1286	.1141
45.000	-.0073	-.1754			.0224	-.0282
90.000	-.1630	-.1406	.0000	-.1107	-.0191	.0031
135.000	.0216	-.2209			-.0449	.0070
180.000	.0726	-.2196	-.0785	-.0778	.0189	.3030
225.000	-.0503	-.1632			.1076	.0000
270.000	-.1464	-.1067	-.0033	-.0933	-.0462	-.0356
315.000	-.0796	-.1351			.0060	.0215

ALPHAL(2) = -4.860 BETAL (1) = -4.147

SECTION (1)SRM BOOSTER .PENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8227	.2237	.1573	-.1425	-.0718	-.0686	-.1519	-.0836	-.0939	-.0429	.0690	.1264	-.0169	.0557	-.1644
45.000		.2758	.2390	-.1233	-.1106	-.0310	-.0431	-.0900	-.1328	-.1371	-.0256				
90.000		.3214	.3308	-.0832	-.0647	-.0867	-.0434	-.0531	-.1328	-.1857	-.0585		.0222	.0531	
135.000		.3833	.3707	-.0637	.0304	.0276	-.0091	.0974	.0224	-.0233	.0393				
180.000	1.8227	.4262	.3620	-.0268	.0396	.0148	-.0395	.1932	.0674	.0250	.0925	.5022	.0000	.2277	-.1664
225.000		.3830	.7383	.0700	.0848	-.1142	.1770	.1991	.0598	.0710	.1571				
270.000		.0000	.9389	.2175	.0357	-.2737	-.1363	-.0819	-.0350	-.0145	.3048	1.0218	.7630	.8696	-.2816
315.000		.2087	.4536	-.0679	-.1381	-.2814	-.1127	-.1250	-.0500	.0005	.0000				

ARC97-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS40)

ALPHAL(2) = -4.860 BETAL (1) = -4.147

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0384	-.1279	-.0326	-.1408	.0331	-.0009
45.000	.0401	-.1428			.0085	.0617
90.000	-.1104	-.1221	.0000	-.1489	.0748	.1695
135.000	.1144	-.1522			.0730	.1328
180.000	.2534	-.1597	.0278	-.1473	.0199	.2041
225.000	.0062	-.2228			.1417	.0000
270.000	-.1807	-.1146	-.0495	-.0715	-.0316	-.0173
315.000	-.0819	-.1490			.0267	.0007

ALPHAL(2) = -4.818 BETAL (2) = .140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4790	.5887	.8985	.7280	.7290	.7360	.7370
PHI															
.000	1.7391	.1649	.1247	-.1282	-.1087	-.1109	-.1580	-.0840	-.0275	-.0322	.1443	.2427	.0336	.1254	-.1510
45.000		.1953	.1633	-.1634	-.1466	-.0575	-.0710	-.0986	-.0908	-.0600	-.0368				
90.000		.2270	.2313	-.1301	-.1187	-.1291	-.0658	-.0791	-.1628	-.1484	-.0076		-.0102	.0208	
135.000		.2884	.2721	.1070	-.0762	-.0383	-.0642	-.0005	-.0270	-.1006	-.0319				
180.000	1.7391	.3625	.3230	-.0380	.0028	-.0237	.1317	.0858	.0146	-.0509	.0343	.3796	.0000	.2384	-.2223
225.000		.3541	.6765	.0599	.0615	-.1278	.1882	.1187	.0097	-.0125	.2677				
270.000		.0000	.9586	.2540	.0236	-.2824	-.1217	-.0947	-.0302	-.0342	.2396	.7644	.3621	.4766	-.3000
315.000		.1675	.4194	-.0785	-.1560	-.3026	-.1317	-.1628	-.0332	-.0230	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0122	-.1517	-.0154	-.1200	.1197	.1252
45.000	.0326	-.1332			0248	.0261
90.000	-.0876	-.1196	.0000	-.1093	.0583	.1054
135.000	.1120	-.1891			.0060	.0541
180.000	.1133	-.2131	-.0460	-.0470	.0040	.1947
225.000	-.0475	-.1430			.0560	.0000
270.000	-.1488	-.1043	-.0138	-.0791	-.0437	-.0350
315.000	-.0770	-.1277			-.0167	.0001

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS40)

ALPHAL(2) = 4.753 BETAL (3) = 3.759

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6296	.1011	.0837	-.1519	-.1143	-.1448	-.1374	-.0585	-.0101	-.0245	.0968	.3869	.0880	.0942	-.1577
45.000		.1184	.1004	-.1872	-.1688	-.0783	-.0874	-.0562	-.0150	-.0337	-.0477				
90.000		.1367	.1396	-.1650	-.1571	-.1568	-.0731	-.1023	-.1137	-.0863	.0530		-.0453	-.0247	
135.000		.1902	.1909	-.1399	-.1234	-.0890	-.0341	-.0932	-.0994	-.1429	-.0229				
180.000	1.6296	.2901	.3015	-.0682	-.0274	-.0549	.0665	-.0033	-.0493	-.0755	.0331	.4553	.0000	.0059	-.2503
225.000		.3051	.4442	.0443	.0440	-.1156	.2113	.0461	-.0343	-.0271	.1609				
270.000		.3360	.9224	.3019	.0291	-.2915	-.1046	-.1387	-.0595	-.0216	.1125	.7159	.3759	.5382	-.2923
315.000		.1262	.3977	-.0802	-.1743	-.2991	-.1316	-.1452	-.0382	-.0301	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0982	-.1317	.0321	-.1236	.1141	.1764
45.000	.0897	-.1291			.1304	.1177
90.000	.0026	-.1123	.0000	-.0607	.0194	.0317
135.000	.0064	-.1540			.0071	.0522
180.000	.0219	-.2139	-.0250	-.0507	.0596	.0771
225.000	-.0850	-.1625			.0227	.0000
270.000	-.1346	-.1291	-.0532	-.0931	-.0708	-.0525
315.000	-.0824	-.1696			-.0026	.1065

ALPHAL(3) = -.337 BETAL (1) = -8.136

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8769	.3456	.2667	-.0962	-.0113	-.0148	-.0894	.0027	-.0044	-.0068	.1666	.2830	.0494	.0367	-.1014
45.000		.3701	.3353	-.0848	.0617	.0247	.0027	-.0210	.0118	-.0009	-.0111				
90.000		.3830	.3752	-.0623	-.0382	-.0184	.0468	.0102	-.0038	.0000	.1029		.0957	.1468	
135.000		.3781	.3427	-.0770	-.0547	.0043	.0030	.0993	.0709	.0304	.1483				
180.000	1.8769	.3553	.2742	-.0809	-.0055	-.0220	-.0978	.1901	.0925	.0765	.1438	.5697	.0000	.2618	-.0871
225.000		.3307	.6174	.0192	.0001	-.1988	.0063	.1283	.0523	.0758	.3779				
270.000		.0000	.9653	.2165	-.0991	-.2529	.0063	-.0746	-.1241	.0033	.3516	1.1459	.9353	1.0995	-.2725
315.000		.3217	.5935	.0095	.0039	-.2041	-.0352	.0102	-.0548	.0040	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0680	-.1495	-.1201	-.1583	.0144	.0843
45.000	.1019	-.1046			.2910	.3956
90.000	.0325	-.0420	.0000	-.0096	.2774	.3449
135.000	.1919	-.0717			.2285	.2306
180.000	.3427	-.0959	.1818	-.1061	.0390	.0273

AHC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS40)

ALPHAL(3) = -.337 BETAL (1) = -6.136

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0630	-.2183			.0497	.0000
270.000	-.1608	-.1120	-.0443	-.0507	.0043	.0095
315.000	-.0797	-.1401			-.0339	.0121

ALPHAL(3) = -.333 BETAL (2) = -4.081

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.3867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8264	.3139	.2397	-.0944	-.0155	-.0294	-.0979	-.0020	-.0020	.0043	.1659	.2725	.0350	.0200	-.1112
45.000		.3317	.3035	-.0993	-.0750	-.0077	-.0198	-.0363	.0136	.0062	.0000				
90.000		.3430	.3375	-.0794	-.0575	-.0423	.0243	-.0153	-.0156	-.0114	.1058		.0807	.1165	
135.000		.3385	.3097	-.0918	-.0660	-.0226	-.0175	.0988	.0451	.0183	.1237				
180.000	1.8264	.3204	.2537	-.0812	-.0067	-.0368	-.1066	.1685	.0513	.0447	.1234	.5100	.0000	.2637	-.1034
225.000		.3016	.6163	.0104	-.0122	-.2080	.0035	.1140	.0389	.0584	.3366				
270.000		.0000	.9611	.2350	-.1048	-.2595	-.0026	-.1005	-.1103	-.0368	.3451	1.1016	.8710	.9827	-.2795
315.000		.2941	.5976	.0043	-.0084	-.2120	-.0435	-.0049	-.0551	-.0156	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0402	-.1477	-.1026	-.1493	.0322	.1233
45.000	.0813	-.1105			.2783	.3776
90.000	.0242	-.0299	.0000	-.0086	.2268	.2926
135.000	.1637	-.0704			.2232	.2181
180.000	.3369	-.1128	.1519	-.1202	.0128	.0372
225.000	.0546	-.2310			.1126	.0000
270.000	-.1617	-.0979	-.0365	-.0469	-.0080	-.0112
315.000	-.0917	-.1316			-.0372	.0068

ALPHAL(3) = -.312 BETAL (3) = .140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7466	.2477	.1964	-.1069	-.0442	-.0731	-.1240	-.0212	.0071	-.0010	.1589	.2995	.0337	.1251	-.1166
45.000		.2385	.2215	-.1359	-.1120	-.0604	-.0811	-.0811	.0243	.0128	.1334				
90.000		.2414	.2352	-.1284	-.1113	-.0834	-.0169	-.0289	-.0153	-.0006	.0929		.0533	.0807	
135.000		.2405	.2251	-.1291	-.1051	-.0695	-.0594	.0554	-.0098	-.0333	.1835				
180.000	1.7466	.2532	.2036	-.1039	-.0442	-.0773	-.0899	.1031	.0075	-.0539	.1305	.4138	.0000	.3518	-.1567
225.000		.2607	.5821	-.0021	-.0368	-.2254	.0668	.0486	-.0026	-.0248	.3318				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS40)

ALPHAL(3) = -.312 BETAL (3) = .140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.9468	.2757	-.1045	-.2750	-.0393	-.1357	-.0781	-.0605	.3165	.9020	.6210	.6249	-.2821
315.000		.2565	.5870	-.0047	-.0264	-.2304	-.0650	-.0273	-.0274	-.0428	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0174	-.1118	-.0429	-.1111	.0574	.0896
45.000	.0781	-.0912			.1470	.1902
90.000	.0027	-.0688	.0000	-.0634	.2201	.2626
135.000	.2601	-.0360			.1509	.1589
180.000	.2341	-.1574	.0889	-.1342	-.0108	.0990
225.000	.0134	-.2155			.1639	.0000
270.000	-.1431	-.1158	-.0075	-.0816	-.0507	-.0442
315.000	-.1019	-.1405			-.0549	-.0160

ALPHAL(3) = -.298 BETAL (4) = 3.704

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6195	.1867	.1749	-.1119	-.0730	-.1086	-.1115	-.0278	-.0069	-.0145	.1420	.3100	.1146	.1734	-.1569
45.000		.1505	.1462	-.1887	-.1358	-.0730	-.0914	-.0321	.0191	-.0073	.1276				
90.000		.1475	.1438	-.1621	-.1471	-.1102	-.0354	-.0224	.0012	-.0103	.1237		.0322	.0597	
135.000		.1557	.1449	-.1640	-.1345	-.0788	-.0782	.0058	-.0322	-.0508	.1760				
180.000	1.6195	.1896	.1678	-.1099	-.0746	-.1002	.0696	.0161	-.0456	-.0704	.1303	.6923	.0000	.0525	-.2154
225.000		.2151	.5432	-.0111	-.0460	-.1740	-.0496	.0054	-.0518	-.0227	.2139				
270.000		.0000	.9262	.3243	-.1241	-.1866	-.1187	-.1326	-.0854	-.0452	.1868	.7942	.3899	.4818	-.2988
315.000		.2111	.5597	-.0121	.0425	-.1922	-.0953	-.0166	-.0341	-.0295	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1068	-.1083	.0689	-.0397	.1209	.1498
45.000	.0816	-.0875			.1654	.1530
90.000	.0394	-.0710	.0000	-.0790	.2112	.2239
135.000	.1810	-.1474			.0643	.1228
180.000	.1260	-.1659	.0620	-.0202	.0396	.0832
225.000	-.0329	-.1708			.0562	.0000
270.000	-.1353	-.1217	-.0468	-.0871	-.0602	-.0355
315.000	-.0950	-.1591			.0416	.1261

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS40)

ALPHAL(3) = -.278 BETAL (5) = 6.452

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5785	.1607	.1807	-.1128	-.0841	-.1195	-.1088	-.0325	-.0160	-.0209	.1306	.3148	.1278	.1765	-.1564
45.000		.1147	.1154	-.1792	-.1493	-.0939	-.1020	-.0101	.0081	-.0147	.1303				
90.000		.1127	.1180	-.1734	-.1607	-.1182	-.0432	-.0273	.0019	-.0147	.1382		.0045	.0447	
135.000		.1180	.1121	-.1727	-.1461	-.0981	-.0143	-.0338	-.0484	-.0540	.1503				
180.000	1.5785	.1679	.1666	-.1049	-.0887	-.1137	.0561	-.0308	-.0729	-.0533	.1280	.7047	.0000	-.0312	-.2231
225.000		.2124	.5392	-.0173	-.0484	-.1688	-.0098	-.0052	-.0739	-.0490	.1493				
270.000		.0000	.8925	.2776	-.1182	-.1805	-.1004	-.1043	-.0733	-.0432	.1807	.8652	.5247	.7607	-.2935
315.000		.2003	.5586	-.0178	-.0442	-.1871	-.0822	-.0048	-.0343	-.0278	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
.000	.1115	-.0872	.0884	.0149	.1732	.2188
45.000	.0944	-.0602			.2070	.2070
90.000	.0866	-.0388	.0000	-.0286	.2772	.2860
135.000	.1007	-.1106			.1556	.2002
180.000	.0991	-.0749	.1157	.0258	.0562	.0360
225.000	-.0573	-.1597			.0178	.0000
270.000	-.1252	-.1171	-.0449	-.0784	-.0579	-.0430
315.000	-.0895	-.1512			.0312	.1228

ALPHAL(4) = 3.428 BETAL (1) = -3.962

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8190	.4127	.3337	-.0586	.0301	.0250	-.0534	-.0180	.0380	.0321	.1740	.3878	.0888	.0811	-.1205
45.000		.3782	.3627	-.0691	-.0424	.0246	-.0087	-.0054	.0095	.0373	.0363				
90.000		.3327	.3359	-.0828	-.0573	-.0793	-.0339	-.0615	.0166	.0232	.1851		.0543	.0325	
135.000		.2885	.2507	-.1168	-.1071	-.0323	-.0365	-.0022	.0203	.0249	.2305				
180.000	1.8190	.2429	.1604	-.1550	-.0637	-.0653	-.0870	.0995	.0262	.0193	.3156	.4915	.0000	.2210	-.0471
225.000		.2328	.4617	-.0475	-.1068	-.2754	-.0216	.0150	.0092	.0193	.3510				
270.000		.0000	.9344	.1997	-.1550	-.2443	.0082	.0856	.0275	.0196	.2345	.6297	.3779	.3437	-.2490
315.000		.3882	.6392	.0690	.1295	-.1220	-.0987	.0581	.0380	.0206	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9585
PHI						
.000	.0759	-.0804	.0108	-.0498	.1569	.2557
45.000	.1306	-.0613			.4207	.4462
90.000	.1127	.0465	.0000	.0759	.2599	.2806
135.000	.2790	-.0166			.3501	.3097
180.000	.3761	-.0549	.3052	-.0803	.0597	.0150

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS40)

ALPHAL(4) = 3.463 BETAL (1) = -3.962

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0092	-.1899			-.0942	.0000
270.000	-.1261	-.0898	-.0348	-.0628	-.0032	.0000
315.000	-.1063	-.1290			.0195	.0673

ALPHAL(4) = 3.417 BETAL (2) = .248

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7404	.3556	.3064	-.0598	.0028	-.0241	-.0801	-.0282	.0160	-.0037	.1316	.3453	.1426	.1151	-.1494
45.000		.2882	.2719	-.1107	-.0815	-.0329	-.0645	-.0525	-.0090	.0034	.0002				
90.000		.2314	.2301	-.1264	-.1159	-.1308	-.0658	-.0931	.0124	.0132	.1345		.0386	.0121	
135.000		.2030	.1655	-.1538	-.1450	-.0565	-.0697	.0248	.0100	.0031	.2423				
180.000	1.7404	.1730	.1261	-.1379	-.1058	-.1136	-.0707	.0426	.0018	-.0189	.3142	.5248	.0000	.1070	-.0784
225.000		.1851	.4321	-.0650	-.1372	-.2925	-.0450	-.0022	-.0230	-.0217	.3610				
270.000		.0000	.9263	.2251	-.1729	-.2637	-.0015	.0708	.0159	-.0096	.2538	.6372	.3447	.2845	-.2837
315.000		.3582	.0129	.0556	.1123	-.1304	-.1073	.0475	.0280	-.0060	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0890	-.0896	.0739	-.0353	.1624	.2437
45.000	.1155	-.0529			.3180	.3570
90.000	.0991	.0030	.0000	.0112	.2672	.2099
135.000	.2721	-.0607			.2908	.0567
180.000	.2409	-.0931	.2323	-.1189	-.0165	-.0203
225.000	.0098	-.2009			-.0509	.0000
270.000	-.1447	-.1032	.0157	-.0542	.0105	.0063
315.000	-.1116	-.1331			.0492	.1124

ALPHAL(4) = 3.388 BETAL (3) = 3.790

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6148	.2927	.3002	-.0555	-.0258	-.0569	-.0780	-.0088	-.0251	-.0252	.0177	.4241	.1946	.1935	-.1425
45.000		.1865	.1865	-.1463	-.1244	-.0881	-.1027	-.0864	-.0163	-.0242	.1326				
90.000		.1349	.1369	-.1669	-.1588	-.1562	-.0796	-.0322	.0100	-.0157	.1480		-.0119	-.0187	
135.000		.1117	.0993	-.1818	-.1692	-.0806	-.0644	.0210	-.0032	-.0239	.2203				
180.000	1.6148	.0918	.0853	-.1549	-.1199	-.1461	-.0335	.0058	-.0386	.0043	.2337	.5834	.0000	.0227	-.1366
225.000		.1215	.3319	-.0803	-.1653	-.2318	-.0478	.0025	-.0465	.0354	.3011				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS40)

ALPHAL(4) = 3.388 BETAL (3) = 3.790

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.9185	.2705	-.1770	-.2334	.0003	.0587	-.0222	.0092	.2615	.5253	.2630	.2274	-.2978
315.000		.3116	.4112	.0385	.0943	-.1319	-.0942	.0629	-.0023	-.0245	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1292	-.0826	.1543	-.0074	.2104	.2851
45.000	.1252	-.0738			.2685	.2685
90.000	.0635	-.0126	.0000	.0014	.1513	.1572
135.000	.1675	-.1023			.1371	.1553
180.000	.1536	-.1331	.1173	-.0518	.0183	.0480
225.000	-.0363	-.1347			.0900	.0000
270.000	-.1192	-.0939	-.0291	-.0483	-.0148	.0044
315.000	-.0644	-.1241			.1247	.2148

ALPHAL(5) = 6.186 BETAL (1) = .287

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7241	.4163	.3859	-.0115	.0276	.0059	-.0372	-.0148	.0192	-.0062	.0043	.3963	.2471	.2787	-.1237
45.000		.3028	.2944	-.0957	-.0673	-.0311	-.0518	-.0660	-.0404	-.0323	.0141				
90.000		.2190	.2216	-.1296	-.1221	-.1522	-.1134	-.1251	-.0129	-.0232	.1995		.0077	-.0125	
135.000		.1822	.1388	-.1639	-.1610	-.0735	-.0868	-.0064	-.0019	-.0045	.1877				
180.000	1.7241	.1414	.0798	-.1457	-.1299	-.1286	-.0699	.0361	-.0019	-.0029	.3185	.4895	.0000	.0540	-.0552
225.000		.1447	.3491	-.1014	-.2005	-.3097	-.0511	-.0291	- 0186	.0265	.3795				
270.000		.0000	.8920	.2025	-.2015	-.2711	-.0151	.0714	.0223	-.0153	.3279	.5328	.3333	.3149	-.2457
315.000		.4043	.5680	.0788	.1597	-.0761	-.0810	.0598	.0393	.0121	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1929	-.0656	.1418	.0186	.1985	.2702
45.000	.1235	-.0309			.2789	.3055
90.000	.1016	.0336	.0000	.0442	.1891	.1995
135.000	.2131	-.0432			.3275	.2966
180.000	.2355	-.0886	.2060	-.0949	-.0103	-.0073
225.000	.0034	-.1939			-.0553	.0000
270.000	-.1340	-.0941	-.0015	-.0210	.0497	.0473
315.000	.0064	-.1217			.1321	.1942

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS41) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.200 RN/FT = 2.500
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAL(1) = -6.967 BETAL (1) = -.017

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8027	.1361	.0710	-.1590	-.0837	-.1017	-.1316	-.1109	-.0792	-.0546	-.0331	.2596	.0964	.1548	-.1760
45.000		.1750	.1495	-.1301	-.1294	-.0610	-.0655	-.0986	-.1400	-.1533	-.0698				
90.000		.2166	.2216	-.0969	-.0961	-.1258	-.0982	-.0929	-.1750	-.2122	-.0799		-.0138	-.0165	
135.000		.3156	.3035	-.0637	-.0550	-.0136	-.0328	.0119	-.0530	-.0715	-.0358				
180.000	1.8027	.4364	.3542	-.0180	.0257	.0264	.0473	.1284	.0659	-.0314	.0575	.3388	.0000	.2954	-.1857
225.000		.4234	.4640	.1342	.1406	-.0477	.1562	.1568	.0595	-.0183	.2073				
270.000		.0000	.9749	.2954	.1576	-.2339	-.1099	-.0468	-.0900	-.0499	.2191	.7435	.3419	.3837	-.2397
315.000		.1465	.3170	-.0533	-.1698	-.2638	-.1660	-.1236	-.0223	-.0163	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0840	-.1200	.0675	-.0822	.1211	.0665
45.000	-.0283	-.1605			-.0517	-.0420
90.000	-.1497	-.1270	.0000	-.1131	-.0377	-.0109
135.000	.0286	-.1923			-.0628	-.0079
180.000	.1140	-.1792	-.0678	-.1171	-.0337	.1761
225.000	-.0333	-.1813			.1020	.0000
270.000	-.1217	-.1055	-.0293	-.0796	-.0407	-.0301
315.000	-.0537	-.1290			.0273	.0408

ALPHAL(2) = -4.834 BETAL (1) = -4.265

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9622	.2474	.1548	-.1263	-.0396	-.0469	-.1166	-.0817	-.0938	-.0577	.0605	.1177	-.0094	.0592	-.1406
45.000		.2911	.2527	-.0923	-.0644	-.0319	-.0271	-.0582	-.1025	-.1306	-.0258				
90.000		.3369	.3332	-.0539	-.0412	-.0670	-.0391	-.0408	-.0834	-.1438	-.0567		.0541	.0777	
135.000		.3945	.3716	-.0336	-.0239	.0046	.0028	.0863	.0453	.0119	.0683				
180.000	1.9622	.4425	.3852	-.0402	.0303	.0347	-.0385	.2017	.0791	.0301	.0970	.5889	.0000	.2183	-.1291
225.000		.4165	.4928	.1260	.1276	-.0874	-.0274	.2107	.0699	.0193	.1328				
270.000		.0000	1.0462	.2855	.0761	-.2098	-.1458	-.0338	-.1019	-.0118	.2243	.9780	.7929	.9888	-.2230
315.000		.2443	.3773	-.0021	-.0837	-.2400	-.1317	-.0992	-.0681	-.0087	.0000				

ARC97-019 IA81 LVAP(ALLML SEALED) SRM BOOSTER (RETS41)

ALPHAL(2) = -4.834 BETAL (1) = -4.265

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
.000	-.0225	-.1186	-.0411	-.1352	.0275	-.0023
45.000	.0363	-.1282			.0027	.0362
90.000	-.0985	-.0992	.0000	-.1242	.0446	.1370
135.000	.1064	-.1049			.1072	.1184
180.000	.2899	-.1075	.0801	-.1299	.0248	.0006
225.000	.0238	-.2235			-.0535	.0000
270.000	-.1333	-.1443	-.0492	-.1028	-.0304	-.0268
315.000	-.0410	-.1443			.0074	-.0176

ALPHAL(2) = -4.805 BETAL (2) = -.053

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8242	.1715	.1086	-.1439	-.0817	-.0857	-.1343	-.0798	-.0478	-.0280	.1126	.1926	.0324	.1108	-.1422
45.000		.1998	.1752	-.1234	-.1164	-.0436	-.0513	-.0854	-.0868	-.0820	-.0300				
90.000		.2314	.2331	-.0952	-.0903	-.1034	-.0553	-.0580	-.1306	-.1548	-.0519		.0099	.0129	
135.000		.2886	.2805	-.0750	-.0703	-.0172	-.0443	.0280	-.0226	-.0573	-.0233				
180.000	1.8242	.3696	.2896	-.0636	-.0002	-.0025	-.0567	.1318	.0384	-.0317	.0576	.3646	.0000	.3195	-.1873
225.000		.3700	.3928	.1077	.1053	-.0987	.0628	.1418	.0364	-.0260	.2708				
270.000		.0000	1.0037	.3221	.0766	-.2273	-.1494	-.0560	-.0850	-.0415	.2124	.7965	.4461	.5161	-.2391
315.000		.1863	.3646	-.0145	-.1134	-.2578	-.1293	-.1363	-.0327	-.0142	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
.000	.0274	-.1181	-.0505	-.1027	.0858	.0909
45.000	.0049	-.1194			.0127	.0103
90.000	-.0702	-.1067	.0000	-.1017	.0515	.0879
135.000	.0943	-.1608			-.0198	.0255
180.000	.1454	-.1695	-.0455	-.1264	-.0398	.0902
225.000	-.0229	-.1915			.0635	.0000
270.000	-.1328	-.1094	-.0458	-.0768	-.0452	-.0278
315.000	-.0573	-.1361			.0080	.0096

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS41)

ALPHAL(2) = -4.751 BETAL (3) = 3.553

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7086	.1173	.0787	-.1511	-.1271	-.1194	-.1425	-.0639	-.0181	-.0251	.0966	.2541	.1104	.2017	-.1465
45.000		.1287	.1093	-.1504	-.1398	-.0707	-.0716	-.0783	-.0304	-.0241	-.0514				
90.000		.1489	.1442	-.1279	-.1288	-.1331	-.0712	-.0719	-.1150	-.0837	.0294		-.0333	-.0112	
135.000		.2016	.1916	-.1118	-.1018	-.0650	-.0809	-.0692	-.0998	-.1278	-.0571				
180.000	1.7086	.3118	.2705	-.0487	-.0240	-.0323	.0986	.0281	-.0208	-.0992	.0570	.3901	.0000	.1003	-.2076
225.000		.3370	.3854	.0885	.0871	-.0984	.0795	.0752	-.0171	-.0423	.2013				
270.000		.0000	.9821	.3558	.0751	-.2359	-.1094	-.0709	-.0490	-.0625	.1031	.7172	.3861	.4334	-.2371
315.000		.1556	.3374	-.0210	-.1181	-.2548	-.1277	-.1425	-.0208	-.0238	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0755	-.1056	.0347	-.0983	.0571	.0936
45.000	.0933	-.1149			.1096	.1113
90.000	-.0108	-.0889	.0000	-.0646	.0117	.0327
135.000	-.0064	-.1500			-.0147	.0044
180.000	.0030	-.2018	-.0348	-.0552	.0127	.1109
225.000	-.0418	-.1567			.0672	.0000
270.000	-.1250	-.1233	-.0458	-.0853	-.0589	-.0347
315.000	-.0625	-.1574			-.0004	.0782

ALPHAL(3) = -.378 BETAL (1) = -6.297

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.0226	.3757	.2623	-.0838	-.0072	.0208	-.0731	-.0253	-.0008	-.0129	.1718	.2654	.0468	.0485	-.0900
45.000		.3985	.3562	-.0446	-.0329	.0111	.0218	-.0059	-.0056	.0036	-.0160				
90.000		.4085	.3942	-.0251	-.0102	-.0012	.0458	.0238	.0211	.0116	.0907		.1108	.1357	
135.000		.4045	.3616	-.0399	-.0313	.0151	.0225	-.0146	.0823	.0500	.1031				
180.000	2.0226	.3878	.2660	-.0790	-.0416	.0151	-.0687	.1470	.0967	.0517	.1657	.6036	.0000	.2395	-.0735
225.000		.3666	.4327	.0845	.0568	-.1487	-.0139	.1320	.0823	.0399	.3561				
270.000		.0000	1.0449	.2814	-.0253	-.1921	-.0016	-.0073	-.0943	-.0321	.2818	1.0110	.9370	1.2618	-.2140
315.000		.3573	.4380	.0829	.0635	-.1549	-.0687	.0298	-.0459	-.0163	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0525	-.1308	-.1323	-.1353	.0138	.0758
45.000	.0953	-.0909			.2795	.4028
90.000	.0279	-.0407	.0000	.0078	.2591	.3352
135.000	.2126	-.0380			.2328	.2378
180.000	.3620	-.0537	.2353	-.0730	.0942	.0608

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS41)

ALPHAL(3) = -.378 BETAL (1) = -8.297

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0957	-.2169			-.0931	.0000
270.000	-.1365	-.1361	-.0676	-.1216	-.0382	-.0170
315.000	-.0621	-.1355			-.0810	-.0127

ALPHAL(3) = -.376 BETAL (2) = -4.239

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9707	.3350	.2308	-.0984	-.0416	-.0062	-.0898	-.0224	-.0107	-.0021	.1628	.2447	.0353	.0239	-.0988
45.000		.3401	.3128	-.0661	-.0550	-.0102	-.0066	-.0227	-.0093	.0010	-.0048				
90.000		.3485	.3438	-.0510	-.0386	-.0299	.0218	.0010	-.0026	-.0068	.0947		.0918	.1069	
135.000		.3475	.3162	-.0594	-.0547	-.0098	-.0050	-.0224	.0637	.0249	.0600				
180.000	1.9707	.3428	.2355	-.0938	-.0433	-.0112	-.0863	.1473	.0789	.0330	.1315	.5170	.0000	.2258	-.0837
225.000		.3408	.4042	.0758	.0336	-.1894	-.0351	.0994	.0559	.0070	.2755				
270.000		.0000	1.0255	.2979	-.0406	-.2039	-.0251	-.0431	-.1033	-.0702	.2656	.9254	.8619	1.1446	-.2174
315.000		.3297	.4049	.0724	.0387	-.1743	-.0749	-.0003	-.0554	-.0223	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0440	-.1265	-.1205	-.1322	.0170	.0852
45.000	.0844	-.1061			.2678	.3852
90.000	.0178	-.0419	.0000	.0099	.2093	.2695
135.000	.1658	-.0757			.2186	.2182
180.000	.3515	-.0687	.1909	-.0924	.0611	.0374
225.000	.0713	-.2150			-.0710	.0000
270.000	-.1438	-.1188	-.0816	-.0793	-.0081	.0112
315.000	-.0627	-.1311			-.0608	-.0080

ALPHAL(3) = -.374 BETAL (3) = -.055

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
000	1.8354	.2572	.1809	-.1171	-.0388	-.0419	-.1002	-.0240	-.0017	.0019	.1405	.2871	.0608	.1255	-.1057
45.000		.2445	.2274	-.0977	-.0908	-.0478	-.0330	-.0423	.0093	.0140	.1180				
90.000		.2441	.2411	-.0920	-.0828	-.0648	-.0040	-.0310	-.0193	-.0068	.0892		.0595	.0742	
135.000		.2458	.2271	-.0948	-.0892	-.0492	-.0333	.0516	.0120	-.0118	.0949				
180.000	1.8354	.2655	.1868	-.1078	-.0442	-.0476	-.1042	.0859	.0321	-.0135	.1238	.4059	.0000	.3705	-.1358
225.000		.2812	.3692	.0636	.0147	-.1867	-.0556	.0898	.0211	-.0474	.3131				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS41)

ALPHAL(3) = -.374 BETAL (3) = -.055

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7380	.7370
PHI															
270.000		.0000	1.0058	.3411	-.0353	-.2163	-.0436	-.0623	-.1011	-.0719	.2473	.8637	.5807	.6341	-.2247
315.000		.2736	.3699	.0649	.0240	-.1888	-.0912	-.0163	-.0185	-.0387	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0273	-.0950	-.0319	-.0748	.0474	.0734
45.000	.0736	-.0860			.1214	.1711
90.000	.0028	-.0623	.0000	-.0412	.1954	.2537
135.000	.2391	-.0770			.1624	.1579
180.000	.2388	-.1283	.0941	-.1225	-.0172	-.0288
225.000	.0249	-.2152			.0561	.0000
270.000	-.1310	-.1156	.0041	-.0765	-.0379	-.0359
315.000	-.0790	-.1300			-.0522	-.0161

ALPHAL(3) = -.364 BETAL (4) = 3.528

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7380	.7370
PHI															
.000	1.7155	.2618	.1502	-.1274	-.0689	-.0772	-.1192	-.0352	-.0091	-.0158	.1347	.2617	.0705	.1537	-.1291
45.000		.1619	.1518	.1318	-.1212	-.0922	-.0785	-.0552	.0192	-.0007	.0611				
90.000		.1585	.1528	-.1268	-.1[illegible]2	-.0932	-.0282	-.0238	-.0118	-.0021	.0853		.0413	.0601	
135.000		.1585	.1572	-.1255	-.1[illegible]9	-.0916	-.0729	.0129	-.0313	-.0434	.1455				
180.000	1.7155	.1971	.1532	-.1255	-.0722	-.0802	-.0939	.0219	-.0313	-.0763	.1489	.5758	.0000	.1430	-.1804
225.000		.2333	.3376	.0464	.00[illegible]	-.1515	.0506	.0429	-.0303	-.0861	.1902				
270.000		.0000	1.0124	.3726	-.0[illegible]5	-.2222	-.0362	-.1016	-.0632	-.0689	.0810	.7906	.4095	.4736	-.2401
315.000		.2373	.3771	.0540	.0157	-.1900	-.0759	-.0191	-.0229	-.0404	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0652	-.0949	.0224	-.0464	.0638	.1051
45.000	.0638	-.0859			.1692	.1672
90.000	.0249	-.0569	.0000	-.0644	.1933	.2180
135.000	.1633	-.1199			.0531	.0047
180.000	.0927	-.1525	.0441	-.0648	-.0063	.0484
225.000	-.0133	-.1732			.0885	.0000
270.000	-.1242	-.1152	-.0481	-.0805	-.0524	-.0269
315.000	-.0676	-.1405			.0070	.0618

ARC97-019 IA81 :VAP(ALLHL SEALED) SRM BOOSTER (RETS41)

ALPHAL(3) = -.355 BETAL (5) = 6.247

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6486	.1731	.1378	-.1311	-.0528	-.0945	-.1258	-.0433	-.0209	-.0259	.1071	.2980	.1143	.1436	-.1400
45.000		.1233	.1163	-.1486	-.1349	-.0919	-.0987	-.0503	.0152	-.0078	.0778				
90.000		.1169	.1139	-.1422	-.1336	-.1075	-.0359	-.0226	-.0039	-.0061	.0883		.0218	.0666	
135.000		.1216	.1183	-.1413	-.1309	-.0882	-.0894	-.0152	-.0519	-.0516	.1169				
180.000	1.6486	.1784	.1395	-.1279	-.0571	-.0905	.0245	-.0166	-.0633	-.0876	.1402	.5917	.0000	.0393	-.1982
225.000		.2309	.3556	.0430	-.0017	-.1840	.0248	.0178	-.0549	-.0654	.1317				
270.000		.0000	.9870	.3498	-.0588	-.2221	-.0493	-.1121	-.0660	-.0701	.0957	.8154	.5381	.7854	-.2325
315.000		.2205	.4042	.0464	.0050	-.1879	-.0760	-.0082	-.0357	-.0478	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0918	-.1040	.0497	-.0630	.1233	.2002
45.000	.0743	-.0830			.1410	.1481
90.000	.0534	-.0566	.0000	-.0683	.1420	.1504
135.000	.1018	-.1294			.0407	.0849
180.000	.0681	-.1535	.0364	-.0228	.0183	.0320
225.000	-.0365	-.1608			.0494	.0000
270.000	-.1237	-.1197	-.0459	-.0747	-.0536	-.0334
315.000	-.0743	-.1428			.0243	.1177

ALPHAL(4) = 3.372 BETAL (1) = -4.139

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9659	.4422	.3331	-.0534	.0130	.0474	-.0299	-.0480	.0383	.0241	.1754	.3423	.1397	.1477	-.1058
45.000		.3912	.3610	-.0379	-.0258	.0223	.0025	-.0032	.0022	.0336	.0343				
90.000		.3422	.3334	-.0510	-.0408	-.0602	-.0353	-.0386	-.0022	.0322	.1666		.0847	.0652	
135.000		.3018	.2565	-.0846	-.0806	-.0371	-.0239	-.0680	.0299	.0097	.1797				
180.000	1.9659	.2581	.1610	-.1264	-.0475	-.0448	-.1048	.0693	.0410	.0474	.2932	.5002	.0000	.2403	-.0421
225.000		.2608	.3072	.0167	-.0542	-.2356	-.0614	-.0189	.0120	.0403	.3349				
270.000		.0000	.9847	.2649	-.0816	-.1885	-.0380	.1081	.0353	.0191	.2680	.7777	.4397	.4733	-.2088
315.000		.4225	.5047	.1353	.1704	-.0888	-.1239	.0389	.0413	.0279	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0994	-.0873	.0058	-.0498	.1210	.2084
45.000	.1243	-.0323			.3622	.4305
90.000	.1122	.0448	.0000	.0707	.2371	.2708
135.000	.2852	.0234			.3649	.3488
180.000	.3128	-.0329	.3065	-.0408	.1034	.0842

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS41)

ALPHAL(4) = 3.372 BETAL (1) = -4.139

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
225.000	.0184	-.1847			-.1102	.0000
270.000	-.1160	-.0930	-.0564	-.0781	-.0248	-.0158
315.000	-.0870	-.1190			.0173	.0812

ALPHAL(4) = 3.352 BETAL (2) = .040

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8292	.3657	.2862	-.0707	-.0017	.0050	-.0603	-.0513	.0200	-.0030	.0492	.3297	.1496	.1422	-.1378
45.000		.2835	.2718	-.0794	-.0708	-.0518	-.0409	-.0423	-.0188	.0048	-.0077				
90.000		.2316	.2302	-.0945	-.0905	-.1062	-.0550	-.0714	-.0048	.0139	.1297		.0454	.0259	
135.000		.2081	.1755	-.1182	-.1179	-.0538	-.0473	-.0195	.0105	.0034	.1966				
180.000	1.8292	.1826	.1048	-.1486	-.0775	-.0889	-.1182	.0578	.0199	-.0117	.2734	.5300	.0000	.1596	-.0783
225.000		.2051	.2594	-.0044	-.0895	-.2551	-.0881	.0036	.0007	-.0124	.3360				
270.000		.0060	.9377	.2874	-.1025	-.2067	-.0958	.0872	.0361	-.0047	.2606	.6614	.3563	.3119	-.2454
315.000		.3704	.4377	.1121	.1442	-.1065	-.1061	.0333	.0418	-.0030	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1015	-.0764	.0675	-.0339	.1317	.2170
45.000	.0961	-.0196			.2380	.2865
90.000	.0857	.0084	.0000	.0200	.1835	.1869
135.000	.2613	-.0333			.2 72	.2706
180.000	.2463	-.0771	.2180	-.0817	.0310	.0030
225.000	.0186	-.1943			-.0724	.0000
270.000	-.1298	-.1018	-.0175	-.0590	.0032	-.0010
315.000	-.0911	-.1212			.0407	.1001

ALPHAL(4) = 3.328 BETAL (3) = 3.591

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7105	.3156	.2716	-.0551	-.0255	-.0268	-.0724	-.0400	-.0169	-.0405	.0056	.3139	.1598	.1806	-.1314
45.000		.1980	.1956	-.1139	-.1036	-.0676	-.0858	-.0951	-.0299	-.0179	.0949				
90.000		.1499	.1482	-.1300	-.1287	-.1350	-.0694	-.0741	-.0032	-.0068	.1231		.0083	.0234	
135.000		.1311	.1049	-.1487	-.1407	-.0669	-.0657	.0232	-.0132	-.0217	.1777				
180.000	1.7105	.1153	.0773	-.1477	-.1250	-.1223	-.0877	.0148	-.0260	-.0817	.1881	.5734	.0000	.0647	-.1277
225.000		.1593	.3156	-.0154	-.1123	-.2587	-.0413	-.0045	-.0287	-.0355	.2683				

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS41)

ALPHAL(4) = 3.328 BETAL (3) = 3.591

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0650	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.9267	.3127	-.1060	-.2219	-.0189	.0717	.0060	-.0503	.2322	.6146	.3170	.2995	-.2473
315.000		.3415	.4019	.0878	.1276	-.1038	-.0941	.0626	.0157	-.0291	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1188	-.0811	.0925	-.0211	.1717	.2619
45.000	.0832	-.0561			.2305	.2389
90.000	.0315	-.0134	.0000	.0040	.1400	.1563
135.000	.1615	-.0928			.1533	.1610
180.000	.1739	-.1212	.1082	-.0952	-.0264	.0230
225.000	-.0184	-.1566			.1029	.0000
270.000	-.1279	-.0968	-.0003	-.0545	-.0191	.0035
315.000	-.0351	-.1205			.0768	.1677

ALPHAL(5) = 6.106 BETAL (1) = .070

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8086	.4228	.3418	-.0402	.0175	.0312	-.0284	-.0287	.0297	.0055	-.0056	.3640	.1977	.2773	-.1228
45.000		.3048	.2976	-.0690	-.0562	-.0135	-.0264	-.0478	-.0378	-.0181	-.0339				
90.000		.2178	.2225	-.0959	-.0952	-.1265	-.0958	-.1029	-.0247	-.0187	.1269		.0069	-.0136	
135.000		.1819	.1493	-.1242	-.1295	-.0658	-.0598	-.0671	-.0016	-.0087	.1645				
180.000	1.8088	.1446	.0687	-.1572	-.0895	-.1038	-.1005	.0277	.0176	-.0053	.2668	.4584	.0000	.0633	-.0701
225.000		.1617	.2565	-.0392	-.1488	-.2655	-.0331	-.0104	.0058	-.0137	.3380				
270.000		.0000	.9429	.2709	-.1358	-.2139	-.1563	.0424	.0538	-.0120	.3115	.5245	.3519	.4175	-.2293
315.000		.4181	.5086	.1345	.1839	-.0605	-.0715	-.0100	.0640	.0142	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	2007	-.0701	.1286	-.0268	.2221	.2752
45.000	.0986	-.0026			.1814	.2151
90.000	.0962	.0421	.0000	.0437	1887	.2061
135.000	.1674	-.0280			.2509	.2795
180.000	.2863	-.0637	.1640	-.0479	.0430	.0137
225.000	.0462	-.2137			-.0878	.0000
270.000	-.1082	-.1128	-.0185	-.0355	.0347	.0376
315.000	.0355	-.1245			.1032	.2065

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS42) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.IN. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZM = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.500 RN/FT = 2.500
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHA(1) = -6.838 BETA (1) = .318

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9448	.1399	.0671	-.1300	-.0752	-.0902	-.1004	-.0998	-.0978	-.0551	-.0548	.2191	.1114	.1543	-.1399
45.000		.1702	.1442	-.0936	-.0995	-.0451	-.0487	-.0749	-.0969	-.1382	-.0714				
90.000		.2015	.2073	-.0684	-.0720	-.1038	-.0785	-.0803	-.1348	-.1746	-.0855		.0102	-.0042	
135.000		.2963	.2898	-.0365	-.0440	-.0394	-.0236	.0126	-.0439	-.0703	-.0548				
180.000	1.9448	.4318	.3498	-.0157	.0075	.0469	-.0136	.1449	.0583	-.0053	.0669	.3688	.0000	.3022	-.1399
225.000		.4376	.5635	.0867	.1712	-.0193	-.0423	.1672	.0734	-.0010	.2825				
270.000		.0000	.6979	.3757	.2188	-.1654	-.1122	-.0096	-.0678	-.0338	.1395	.7494	.3696	.4427	-.1788
315.000		.1702	.1176	.0079	-.1035	-.2051	-.1843	-.1290	-.0526	-.0154	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0913	-.1130	.2095	-.0466	.1210	.0992
45.000	-.0391	-.1070			-.0276	-.0204
90.000	-.0970	-.0966	.0000	-.0774	-.0279	-.0022
135.000	.0450	-.1552			-.0322	.0032
180.000	.1262	-.1327	.0032	-.1347	-.0555	.0978
225.000	-.0186	-.1706			.0129	.0000
270.000	-.0898	-.0987	.0390	-.0695	-.0032	-.0116
315.000	-.0376	-.1012			.0132	.0325

ALPHA(2) = -4.683 BETA (1) = -3.910

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7290	.7290	.7360	.7370
PHI															
.000	2.1324	.2474	.1498	-.1019	-.0722	-.0311	-.0772	-.0911	-.0768	-.0594	.0517	.0905	.0210	.0938	-.1176
45.000		.2787	.2438	-.0591	-.0597	-.0321	-.0078	-.0353	-.0679	-.1081	-.0107				
90.000		.3129	.3133	-.0282	-.0261	-.0493	-.0289	-.0242	-.0525	-.1081	-.0417		.0833	.0581	
135.000		.3795	.3568	-.0089	-.0125	.0137	.0209	-.0053	.0502	.0174	-.0114				
180.000	2.1324	.4332	.3395	-.0235	.0072	.0598	-.0142	.1647	.0899	.0524	.1581	.6702	.0000	.2169	-.0964
225.000		.4460	.4165	.1878	.1751	-.0561	-.0951	.1787	.1083	.0344	.1386				
270.000		.0000	.7850	.3748	.1379	-.1463	-.1269	-.0217	-.0490	-.0268	.2183	.6989	.7138	.9638	-.1579
315.000		.2658	.1564	.0627	-.0318	-.1906	-.1395	-.0894	-.0742	-.0172	.0000				

ARC97-019 IA81 LV.P(ALLHL SEALED) SRM BOOSTER (RETS42)

ALPHAL(2) = -4.883 BETAL (1) = -3.910

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0017	-.0840	-.0325	-.0902	.0212	.0055
45.000	.0257	-.1080			.0040	.0288
90.000	-.0877	-.0883	.0000	-.0985	.0184	.0997
135.000	.1196	-.0769			.1409	.1334
180.000	.2928	-.0726	.1001	-.0823	.0485	.0301
225.000	.0130	-.1749			-.0813	.0000
270.000	-.0873	-.1366	-.0734	-.1003	-.0304	.0077
315.000	-.0121	-.1324			-.0089	-.0118

ALPHAL(2) = -4.678 BETAL (2) = .287

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9615	.1770	.1016	-.1179	-.1028	-.0682	-.0985	-.0821	-.0592	-.0237	.0527	.1591	.0734	.1170	-.1161
45.000		.1925	.1659	-.0910	-.0885	-.0364	-.0342	-.0588	-.0656	-.0842	-.0258				
90.000		.2173	.2137	-.0676	-.0685	-.0828	-.0452	-.0502	-.0903	-.1281	-.0564		.0172	.0024	
135.000		.2758	.2661	-.0467	-.0524	-.0356	-.0220	.0209	-.0215	-.0413	-.0662				
180.000	1.9615	.3775	.2995	-.0385	-.0192	.0223	-.0367	.1270	.0502	-.0071	.0711	.3678	.0000	.3328	-.1432
225.000		.3919	.4530	.1284	.1448	-.0682	-.0798	.1313	.0635	-.0132	.2738				
270.000		.0000	.7536	.3889	.1480	-.1618	-.1278	-.0206	-.0698	-.0312	.1669	.7682	.4618	.5414	-.1731
315.000		.2115	.1214	.0358	-.0514	-.1907	-.1392	-.1189	-.0456	-.0071	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0813	-.09[illegible]	.0170	-.0679	.0995	.1067
45.000	-.0062	-.0826			.0160	.0181
90.000	-.0588	-.0801	.0000	-.0687	.0360	.0837
135.000	.0895	-.1377			.0142	.0378
180.000	.1468	-.1241	-.0116	-.1239	-.0547	.0226
225.000	-.0157	-.1746			0013	.0000
270.000	-.0887	-.1145	.0299	-.0715	-.0174	-.0237
315.000	-.0300	-.1120			.0013	.0316

ARC87-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS42)

ALPHAL(2) = -4.66 BETAL (3) = 3.864

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7914	.1154	.0670	-.1310	-.0764	-.1063	-.1169	-.0644	-.0287	-.0205	.0065	.2596	.1486	.2833	-.1325
45.000		.1186	.1043	-.1141	-.1124	-.0614	-.0590	-.0662	-.0362	-.0155	-.0417				
90.000		.1337	.1366	-.0966	-.1010	-.1117	-.0605	-.0572	-.0940	-.0690	.0234		-.0111	.0057	
135.000		.1879	.1871	-.0792	-.0849	-.0792	-.0758	-.0426	-.0888	-.1060	-.0460				
180.000	1.7914	.3084	.2531	-.0575	-.0179	-.0061	-.0430	.0541	-.0079	-.0708	.0841	.4526	.0000	.1246	-.1619
225.000		.3446	.4881	.0581	.0994	-.0717	.0545	.1098	.0144	-.0557	.3425				
270.000		.0000	.6810	.4097	.1451	-.1730	-.1208	-.0394	-.0715	-.0320	.1499	.7821	.4648	.5297	-.1687
315.000		.1663	.1394	.0021	-.0635	-.1939	-.1386	-.1397	-.0234	-.0176	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1454	-.0769	.0837	-.0706	.0983	.1111
45.000	.0555	-.0708			.0687	.0848
90.000	-.0075	-.0644	.0000	-.0610	.0096	.0356
135.000	-.0189	-.1157			-.0218	.0053
180.000	.0182	-.1538	-.0289	-.0493	-.0279	.0646
225.000	-.0153	-.1410			.0598	.0000
270.000	-.0776	-.1114	-.0489	-.0710	-.0493	-.0278
315.000	-.0256	-.1278			.0063	.0915

ALPHAL(3) = -.291 BETAL (1) = -5.936

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.2286	.3794	.2660	-.0612	-.0239	.0385	-.0445	-.0659	.0048	-.0078	.1467	.2231	.0420	.0276	-.0753
45.000		.3851	.3474	-.0189	-.0150	.0179	.0337	.0070	-.0195	.0100	-.0022				
90.000		.3894	.3783	-.0024	.0011	.0086	.0327	.0359	.0141	.0114	.0952		.1123	.1255	
135.000		.3862	.3524	-.0128	-.0142	.0189	.0348	-.0013	.0870	.0575	.0395				
180.000	2.2286	.3862	.2721	-.0535	-.0203	.0360	-.0402	.0641	.0938	.0661	.2024	.6661	.0000	.2313	-.0592
225.000		.3912	.2509	.1359	.1066	-.1109	-.0545	.0673	.1013	.0589	.3067				
270.000		.0000	.8146	.3669	.0503	-.1326	-.0231	.0066	-.0476	-.0573	.2571	.8503	.8904	1.2158	-.1513
315.000		.3811	.2466	.1345	.1106	-.1109	-.1013	.0162	-.0260	-.0292	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0499	-.0930	-.0947	-.0932	.0220	.0855
45.000	.0861	-.0620			.2378	.3969
90.000	.0000	-.0370	.0000	.0298	.2599	.3418
135.000	.2650	.0032			.2396	.2714
180.000	.3552	-.0042	.2231	-.0248	.1283	.1057

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS42)

ALPHAL(3) = -.291 BETAL (1) = -5.936

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0724	-.1675			-.0385	.0000
270.000	-.0830	-.1148	-.0604	-.1081	-.0522	-.0298
315.000	-.0403	-.1137			-.0865	-.0416

ALPHAL(3) = -.307 BETAL (2) = -3.891

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.1424	.3346	.2344	-.0723	-.0387	.0186	-.0801	-.0733	.0007	.0032	.1373	.2012	.0792	.0842	-.0867
45.000		.3267	.2995	-.0380	-.0340	-.0010	.0107	-.0096	-.0281	.0057	.0072				
90.000		.3298	.3224	-.0237	-.0198	-.0138	.0125	.0128	.0100	-.0025	.0835		.0835	.1172	
135.000		.3313	.3056	-.0308	-.0337	.0008	.0118	-.0178	.0559	.0319	.0165				
180.000	2.1424	.3453	.2401	-.0657	-.0351	.0147	-.0369	.0655	.0735	.0387	.1574	.5785	.0000	.2105	-.0696
225.000		.3639	.2279	.1181	.0915	-.1222	-.1032	.0802	.0807	.0272	.2783				
270.000		.0000	.7776	.3823	.0438	-.1400	-.0448	.0054	-.0750	-.0570	.2306	.7573	.7658	1.1085	-.1536
315.000		.3521	.2243	.1146	.0918	-.1192	-.1145	.0032	-.0280	-.0328	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0431	-.1011	-.0709	-.0901	.0180	.0824
45.000	.0978	-.0492			.2069	.3274
90.000	-.0012	-.0429	.0000	.0252	.2030	.2809
135.000	.1832	-.0292			.2378	.2412
180.000	.3654	-.0342	.1770	-.0449	.0958	.0748
225.000	.0209	-.1673			-.0662	.0000
270.000	-.0872	-.1171	-.0558	-.0783	-.0193	.0166
315.000	-.0396	-.1164			-.0609	-.0085

ALPHAL(3) = -.319 BETAL (3) = .301

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9742	.2628	.1837	-.0898	-.0639	-.0170	-.0795	-.0738	-.0055	.0020	.1043	.2693	.0807	.1613	-.0954
45.000		.2281	.2127	-.0728	-.0710	-.0369	-.0293	-.0275	-.0090	.0156	.0537				
90.000		.2259	.2231	-.0655	-.0639	-.0522	-.0112	-.0183	-.0181	-.0109	.0680		.0642	.0925	
135.000		.2363	.2138	-.0678	-.0728	-.0401	-.0293	-.0357	.0278	-.0038	.0185				
180.000	1.9742	.2743	.1873	-.0845	-.0684	-.0237	-.0834	.1064	.0368	.0070	.1115	.3838	.0000	.3277	-.1097
225.000		.3078	.1901	.1010	.0751	-.1332	-.1166	.1058	.0433	-.0206	.2740				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS42)

ALPHAL(3) = -.319 BETAL (3) = .301

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.7493	.4007	.0520	-.1517	-.0687	-.0065	-.0906	-.0493	.2640	.7915	.4908	.5470	-.1674
315.000		.2958	.1868	.0957	.0758	-.1319	-.1294	-.0172	-.0267	-.0181	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0384	-.0749	-.0296	-.0613	.0823	.0982
45.000	.0756	-.0581			.1133	.1421
90.000	-.0011	-.0353	.0000	-.0228	.1981	.2707
135.000	.2164	-.0688			.1827	.1858
180.000	.2446	-.0923	.0883	-.0945	-.0157	-.0204
225.000	.0185	-.1804			-.0399	.0000
270.000	-.0963	-.1009	.0096	-.0581	-.0107	-.0179
315.000	-.0392	-.1102			-.0432	-.0046

ALPHAL(3) = -.311 BETAL (4) = 3.850

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8007	.2035	.1513	-.0992	-.0790	-.0443	-.0876	-.0502	-.0143	-.0095	.1016	.2090	.1239	.2527	-.1100
45.000		.1524	.1474	-.0974	-.0947	-.0723	-.0627	-.0517	.0155	.0145	.0432				
90.000		.1506	.1477	-.0906	-.0893	-.0755	-.0293	-.0357	-.0079	.0124	.0726		.0624	.0720	
135.000		.1531	.1481	-.0893	-.0936	-.0705	-.0613	.0241	-.0168	-.0328	.1242				
180.000	1.8007	.2068	.1595	-.0904	-.0780	-.0503	-.0933	.0301	-.0138	-.0543	.1676	.6368	.0000	.1568	-.1397
225.000		.2547	.2304	.0846	.0519	-.1330	-.0702	.0906	.0034	-.0743	.2167				
270.000		.0000	.7577	.4[illegible]	.0207	-.1596	-.0446	-.0382	-.0772	-.0571	.1145	.7763	.4465	.5308	-.1740
315.000		.2522	.1874	.0895	.0597	-.1285	-.1128	-.0154	-.0191	-.0292	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1024	-.0693	.0570	-.0387	.0788	.1129
45.000	.0781	-.0612			.1724	.1877
90.000	.0327	-.0285	.0000	-.0472	.1827	.2108
135.000	.1648	-.0906			.0684	.0872
180.000	.0834	-.1148	.0471	-.0579	-.0060	.0359
225.000	-.0153	-.1432			.0592	.0000
270.000	-.0874	-.1009	-.0437	-.0658	-.0430	-.0161
315.000	-.0242	-.1208			.0081	.0593

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS42)

ALPHAL(3) = -.307 BETAL (5) = 6.558

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7412	.1818	.1375	-.1044	-.0910	-.0597	-.0955	-.0439	-.0152	-.0181	.0737	.2718	.0997	.1602	-.1090
45.000		.1189	.1150	-.1101	-.1095	-.0910	-.0731	-.0514	.0204	.0050	.0200				
90.000		.1132	.1114	-.1019	-.1034	-.0839	-.0312	-.0223	.0051	.0050	.0043		.0358	.0652	
135.000		.1188	.1168	-.1020	-.1091	-.0906	-.0734	.0055	-.0389	-.0380	.1038				
180.000	1.7412	.1840	.1450	-.0988	-.0928	-.0647	-.0902	-.0002	-.0355	-.0777	.1811	.5809	.0000	.0813	-.1556
225.000		.2415	.3008	.0763	.0444	-.1322	.0019	.0609	-.0197	-.0824	.1833				
270.000		.0000	.7559	.4074	.0220	-.1635	-.0372	-.0596	-.0319	-.0813	.0866	.7298	.5520	.8600	-.1721
315.000		.2390	.2626	.0881	.0465	-.1289	-.0862	-.0059	-.0143	-.0344	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0763	-.0750	.0430	-.0557	.1082	.1688
45.000	.0642	-.0532			.1243	.1382
90.000	.0699	-.0347	.0000	-.0460	.1303	.1403
135.000	.0947	-.1010			.0306	.0744
180.000	.0604	-.1302	.0423	-.0346	.0038	.0205
225.000	-.0240	-.1391			.0701	.0000
270.000	-.0757	-.1063	-.0311	-.0614	-.0382	-.0201
315.000	-.0204	-.1209			.0063	.0963

ALPHAL(4) = 3.351 BETAL (1) = -3.816

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.1334	.4405	.3348	-.0322	.0009	.0667	-.0108	-.0431	.0245	.0271	.0548	.3308	.1324	.1027	-.0994
45.000		.3704	.3500	-.0154	-.0126	.0116	.0198	.0056	-.0115	.0164	.0279				
90.000		.3193	.3128	-.0254	-.0236	-.0442	-.0300	-.0254	-.0303	.0243	.1225		.0734	.0591	
135.000		.2848	.2531	-.0527	-.0563	-.0300	-.0097	-.0417	.0340	.0138	.1118				
180.000	2.1334	.2592	.1598	-.0948	-.0883	-.0257	-.0791	.0181	.0428	.0139	.1818	.3878	.0000	.1778	-.0148
225.000		.2817	.1373	.0692	-.0082	-.1860	-.0392	-.0090	.0248	.0184	.1950				
270.000		.0000	.8917	.3802	.0002	-.1359	-.0823	.0533	.0919	.0243	.2222	.8372	.4061	.3424	-.1791
315.000		.4437	.3232	.0855	.2053	-.0503	-.0940	-.0051	.0428	.0282	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.1158	-.0478	.0367	-.0242	.1207	.1978
45.000	.1185	-.0018			.2941	.3799
90.000	.0999	.0265	.0000	.0844	.2012	.2357
135.000	.2386	.0059			.3642	.3678
180.000	.2539	-.0119	.2631	.0135	.1207	.0908

AR097-018 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS42)

ALPHAL(4) = 3.351 BETAL (1) = -3.818

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0749	-.1564			-.0648	.0000
270.000	-.0987	-.0888	-.0651	-.0886	-.0445	-.0198
315.000	-.0503	-.0868			.0281	.1014

ALPHAL(4) = 3.348 BETAL (2) = .362

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9613	.3691	.2834	-.0477	-.0235	.0305	-.0353	-.0474	.0206	.0089	.0010	.2928	.1609	.1723	-.1094
45.000		.2719	.2591	-.0531	-.0545	-.0385	-.0260	-.0360	-.0298	.0082	.0032				
90.000		.2191	.2109	-.0677	-.0704	-.0818	-.0474	-.0531	-.0075	.0168	.1009		.0468	.0483	
135.000		.1955	.1648	-.0864	-.0871	-.0488	-.0353	-.0623	.0211	.0046	.0884				
180.000	1.9613	.1848	.1062	-.1145	-.0960	-.0680	-.0947	.0537	.0307	-.0083	.2169	.4712	.0000	.1316	-.0663
225.000		.2248	.0976	.0397	-.0353	-.1944	-.1064	-.0018	.0257	-.0133	.2803				
270.000		.0000	.6257	.3598	-.0161	-.1422	-.1463	.0750	.0515	.0046	.2384	.7330	.4101	.4398	-.1798
315.000		.3909	.3134	.0266	.1694	-.0709	-.1015	-.0367	.0519	.0153	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1141	-.0477	.0816	-.0087	.1218	.1883
45.000	.0794	-.0033			.2292	.2886
90.000	.0611	.0077	.0000	.0411	.1723	.2139
135.000	.2319	-.0399			.2779	.2983
180.000	.2330	-.0520	.1762	-.0293	.0514	.0247
225.000	.0568	-.1724			-.0670	.0000
270.000	-.0974	-.0953	.0439	-.0531	.0080	-.0004
315.000	-.0562	-.1042			.0180	.0957

A_PHAL(4) = 3.332 BETAL (3) = 3.898

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.475	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7836	.3079	.2551	-.0558	-.0270	.0057	-.0559	-.0574	.0024	-.0326	-.0186	.2927	.1482	.2101	-.1064
45.000		.1865	.1854	-.0812	-.0832	-.0784	-.0748	-.0780	-.0398	-.0014	.0845				
90.000		.1379	.1407	-.0908	-.0970	-.1087	-.0602	-.0641	-.0122	.0097	.0870		.0381	.0388	
135.000		.1250	.1086	-.1045	-.1087	-.0615	-.0556	-.0022	.0007	-.0100	.1525				
180.000	1.7836	.1236	.0678	-.1269	-.0992	-.1024	-.1036	.0351	-.0086	-.0423	.1962	.5583	.0000	.1872	-.1129
225.000		.1761	.0893	.0152	-.0469	-.1954	-.1057	-.0072	.0082	-.0612	.2621				

ARC97-019 IAB1 LVAP(ALL HL SEALED) SRM BOOSTER (RETS42)

ALPHAL(4) = 3.332 BETAL (3) = 3.898

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.5847	.3545	-.0302	-.1528	-.1434	.0909	.0401	-.0308	.2431	.7133	.4344	.3582	-.1747
315.000		.3483	.4937	.0117	.1218	-.0730	-.1032	.0187	.0501	-.0136	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1271	-.0673	.0745	-.0316	.1642	.2446
45.000	.0717	-.0193			.1649	.1845
90.000	.0288	-.0047	.0000	.0136	.1279	.1535
135.000	.1679	-.0620			.1588	.1717
180.000	.1440	-.0972	.0898	-.0647	-.0020	-.0054
225.000	-.0051	-.1538			.0546	.0000
270.000	-.0823	-.0929	-.0088	-.0576	-.0284	-.0115
315.000	-.0221	-.1097			.0448	.1366

ALPHAL(5) = 6.084 BETAL (1) = .394

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9453	.4262	.3429	-.0281	.0029	.0566	-.0209	-.0149	.0218	.0152	-.0052	.3270	.1488	.2255	-.1105
45.000		.2896	.2810	-.0461	-.0465	-.0376	-.0288	-.0377	-.0409	-.0263	-.0306				
90.000		.2045	.2056	-.0668	-.0757	-.1027	-.0804	-.0832	-.0394	-.0081	.1041		.0261	-.0011	
135.000		.1723	.1455	-.0902	-.0984	-.0543	-.0487	-.0782	-.0016	-.0127	.1378				
180.000	1.9453	.1470	.0683	-.1265	-.1048	-.0924	-.0985	.0008	.0328	-.0073	.2220	.4639	.0000	.0545	-.0506
225.000		.1849	.0973	.0072	-.0878	-.2040	-.1402	.0011	.0271	-.0138	.2769				
270.000		.0000	.5763	.3491	-.0593	-.1429	-.1370	.0428	.0658	-.0023	.2722	.4417	.3055	.3055	-.1829
315.000		.4387	.3904	.0100	.2155	-.0330	-.0750	-.0177	.0672	.0267	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1760	-.0591	.0829	-.0309	.1952	.2758
45.000	.0774	.0564			.1596	.1810
90.000	.0975	.0407	.0000	.0522	.2006	.2213
135.000	.1485	-.0231			.2373	.2745
180.000	.2276	-.0327	.1717	-.0188	.0800	.0546
225.000	.0397	-.1665			-.0748	.0000
270.000	-.0841	-.1037	-.0418	-.0334	.0344	.0568
315.000	.0482	-.1201			.0907	.1890

A[illegible]97-019 IA81 LVAP(ALLHL SCALED) SRM BOOSTER (RETS43) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAL(1) = -6.934 BETAL (1) = .614

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5106	.0800	.1600	-.2878	-.2430	-.2198	-.1615	-.0697	-.0726	-.0684	.1935	.3019	.0768	.0464	-.2503
45.000		.1381	.1106	-.2940	-.2235	-.1522	-.1557	-.1391	-.1235	-.1953	.0516				
90.000		.1816	.2071	-.2598	-.2167	-.2188	-.1488	-.2598	-.2442	-.2051	.0316		-.0819	-.0434	
135.000		.2797	.3633	-.2021	-.1464	-.1049	-.0334	-.0953	-.1705	-.1956	-.1119				
180.000	1.5106	.3678	.5095	-.1516	-.0852	-.0586	.1649	-.0168	-.0759	-.1162	.1198	.5820	.0000	.0088	-.3485
225.000		.3194	.6680	-.1168	-.0453	-.0913	.2062	.0198	-.0132	-.1126	.3318				
270.000		.0000	.7380	-.0385	.0237	-.4497	-.1810	-.0755	-.0658	-.0658	.3253	.7622	.3833	.5587	-.3335
315.000		.0509	.2265	-.3168	-.4024	-.3911	-.2387	-.1077	-.0354	-.0387	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0222	-.1863	.0506	-.1160	.2236	.1379
45.000	.0052	-.1700			.0451	.0029
90.000	-.1051	-.1103	.0000	.0211	.0846	.1308
135.000	.0717	-.1979			.2016	.3929
180.000	.0516	-.2379	.0800	.0623	.3785	.3461
225.000	-.1350	-.2022			.0444	.0000
270.000	-.1687	-.1559	-.0296	-.1257	-.0920	-.0746
315.000	-.1279	-.2002			.0243	.0140

ALPHAL(2) = -4.778 BETAL (1) = -3.694

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5686	.1688	.2522	-.2274	-.2104	-.1800	-.1796	-.0915	-.0594	-.0598	.1352	.2085	-.0502	.0800	-.1934
45.000		.2335	.2052	-.2531	-.1865	-.1140	-.1507	-.1265	-.1167	-.1091	.0675				
90.000		.2905	.3031	-.2242	-.1564	-.1428	-.1086	-.1530	-.2343	-.1783	.0233		-.0202	.0253	
135.000		.3498	.3961	-.1732	-.1159	-.0506	.0971	.0348	-.0844	-.0899	-.0152				
180.000	1.5686	.3626	.4991	-.1583	-.1001	-.0849	.2515	.0704	-.0015	-.0299	.2305	.4833	.0000	.2601	-.2903
225.000		.2986	.6311	-.1370	-.0732	-.2263	.2136	.0364	.0240	-.0413	.4304				
270.000		.0000	.7705	-.0266	-.1240	-.3754	-.1692	-.2197	-.0155	-.0498	.3769	.9693	.6305	.6530	-.4417
315.000		.1299	.3243	-.2693	-.3127	-.3237	-.1653	-.1517	-.0090	-.0302	.0000				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS43)

ALPHAL(2) = -4.778 BETAL (1) = -3.694

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	-.0206	-.1390	.0225	-.0889	.0228	-.0151
45.000	.0562	-.1638			.1101	.1552
90.000	-.1807	-.1983	.0000	-.0258	.2001	.2478
135.000	.2328	-.2409			.2394	.4048
180.000	.2225	-.2163	.0901	.1817	.3991	.4315
225.000	-.0718	-.1268			.1697	.0000
270.000	-.1617	-.0954	-.0180	-.0795	-.0569	-.0407
315.000	-.1048	-.1057			-.0099	-.0322

ALPHAL(2) = -4.694 BETAL (2) = .550

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6885	.7280	.7290	.7360	.7370
PHI															
.000	1.5255	.1194	.2237	-.2503	-.2235	-.2098	-.1698	-.0230	-.0440	-.0520	.1939	.3136	.0449	.0769	-.2038
45.000		.1677	.1438	-.2716	-.2106	-.1229	-.1304	-.0835	-.0466	-.0806	.1311				
90.000		.1986	.2150	-.2599	-.2022	-.1634	-.1068	-.1818	-.1466	-.1380	.1045		-.0609	-.0059	
135.000		.2649	.3051	-.2077	-.1507	-.1019	.0016	-.0518	-.1354	-.1278	.0240				
180.000	1.5255	.3193	.4603	-.1695	-.1113	-.0970	.1487	-.0097	-.0588	-.1159	.1547	.7147	.0000	-.0368	-.3268
225.000		.2810	.6255	-.1368	-.0935	-.1659	.2070	-.0149	-.0301	-.1090	.3442				
270.000		.0000	.7852	-.0123	-.0938	-.3178	-.1987	-.1062	-.0678	-.0552	.3384	.8477	.3955	.5491	-.3600
315.000		.0917	.3125	-.2727	-.3335	-.3136	-.1919	-.1262	-.0360	-.0285	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0169	-.2044	.1527	-.1432	.1640	.0798
45.000	.0352	-.1474			.0962	.0830
90.000	-.0625	-.1166	.0000	.0449	.1736	.2110
135.000	.1410	-.2218			.2143	.3644
180.000	.1261	-.2338	.0772	.1217	.3055	.2899
225.000	-.1066	-.2141			.0543	.0000
270.000	-.1597	-.1470	-.0354	-.1134	-.0817	-.0644
315.000	-.1292	-.1959			-.0153	.0185

SRS97-019 IA81 (VAPIALLHL SCALED) SRM BOOSTER (RETS431

ALPHAL(2) = -4.602 BETAL (3) = 4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4732	.0685	.2108	-.2845	-.2454	-.2269	-.0919	-.0099	-.0209	.0318	2915	.4712	-.0303	-.0078	-.2222
45.000		.0975	.0965	-.2922	-.2256	-.1376	-.0928	.0076	-.0345	.0068	.2581				
90.000		.1258	.1365	- 2909	-.2421	-.1803	-.0997	-.1427	-.1009	-.0342	.2056		-.1474	-.1357	
135.000		.1707	.2429	-.2441	-.2017	-.1667	-.0604	-.1275	-.1699	-.0942	.2160				
180.000	1.4732	.2520	4226	-.1832	-.1383	-.0972	.0287	-.0601	-.1115	-.1203	.2004	.6724	.0000	-.0983	-.3172
225.000		.2446	.6187	-.1383	-.1088	-.0590	.0984	-.0339	-.0609	-.0433	.3045				
270.000		.0000	.8226	.0339	-.1130	-.2632	-.2289	-.0705	-.0537	.0070	3362	.6872	.4045	.5697	-.3221
315.000		.0555	.3213	- 2793	-.3444	-.3339	-.1560	-.0556	-.0260	.0109	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0530	-.1963	.0636	-.1382	.3045	.3557
45.000	.1940	-.2108			.1512	.1151
90.000	-.0004	-.0602	.0000	.0446	.1026	.0623
135.000	.0423	-.1232			.2320	.3102
180.000	.0694	-.1972	.1905	.0855	.2817	.2065
225.000	-.1229	-.1730			.0151	.0000
270.000	-.1529	-.1280	-.0153	-.0887	-.0586	-.0667
315.000	-.1342	-.1814			.0716	.1427

ALPHAL(3) = -2.473 BETAL (1) = .511

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5297	.1554	.2879	-.2415	-.2038	-.1954	-.1409	-.0012	-.0271	-.0303	.2335	.3842	.0171	.1110	-.1605
45.000		.1908	.1856	-. 509	-.1905	-.0974	-.1180	-.0115	-.0073	-.0534	.2082				
90 000		.2178	.2104	- 2574	-.1	- 1162	-.0665	-.1024	-.0542	-.0677	.1370		-.0377	0342	
135.000		.2387	.2	-.2109	-.16	-.0974	.0318	-.0381	-.0854	-.0746	.2448				
180.000	1.5297	.2596	.4	.1896	-.1443	-.1369	.1150	-.0303	-.0632	-.0915	.2506	.7837	.0000	-.0179	-.3063
225.000		226	.6038	-.1663	-.1378	-.1889	.1762	-.0300	-.0298	-.0912	.3720				
270.000		0000	8226	.0179	-.2264	-.3072	-.2341	-.1251	-.0739	-.0511	.3358	8679	.4051	.2	-.3254
315.000		.1329	.4078	-.2406	-.2632	-.3004	-.1429	-.1264	- 0521	-.0260	.0000				

X/LS	.8102	.8661	.9120	9130	.9344	.9565
PHI						
.000	-.0068	-.2198	0593	-.0754	.1467	.1380
45.000	.0821	-.1			.2239	.2628
90 000	-.0221	- 1390	.0000	.0860	.2512	.3011
135.000	.2048	-.2149			.2204	.2868
180.000	.1990	- 2	017	.1335	2799	.2097

ARC87-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RET543)

ALPHAL(3) = -2.473 BETAL (1) = .511

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0906	-.2107			.1043	.0000
270.000	-.1587	-.1329	-.0201	-.0990	-.0663	-.0457
315.000	-.1293	-.1700			-.0363	.0096

ALPHAL(4) = -.287 BETAL (1) = -5.804

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4790	.5867	.6986	.7280	.7290	.7360	.7370
PHI															
.000	1.5978	.2955	.3950	-.1980	-.1488	-.1404	-.1149	-.0494	-.0088	-.0185	.2458	.3587	.0213	.1978	-.1123
45.000		.3486	.3396	-.1986	-.1333	-.0512	-.0803	-.0403	.0166	-.0247	.2488				
90.000		.3669	.3524	-.2023	-.1291	-.0561	-.0322	.0086	-.0028	-.0068	.1941		.0875	.1319	
135.000		.3563	.3431	-.1946	-.1284	-.0532	-.0768	.0898	.0349	.0212	.3917				
180.000	1.5978	.3038	.4023	-.1885	-.1410	-.1462	.1480	.1062	-.0309	.0033	.4874	.6395	.0000	.3375	-.1581
225.000		.2492	.5097	-.1907	-.1740	-.1824	.0269	.0730	.0011	.0030	.6039				
270.000		.0000	.8084	-.0112	-.3251	-.2382	-.1818	-.2361	-.1110	-.0270	.3707	1.1185	.7808	.6720	-.3989
315.000		.2428	.5052	-.1962	-.1581	-.2070	-.0949	-.0862	-.0074	.0027	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0158	-.2082	-.0589	-.1470	.1084	.2167
45.000	.1223	-.1818			.3179	.3761
90.000	-.0222	-.1305	.0000	-.0189	.2819	.3276
135.000	.3445	-.1960			.2414	.3053
180.000	.3403	-.2257	.1592	.1235	.2498	.3111
225.000	.0034	-.1408			.2742	.0000
270.000	-.1540	-.1005	.0338	-.0602	-.0124	-.0211
315.000	-.1282	-.1337			-.0053	.0193

ALPHAL(4) = -.275 BETAL (2) = -3.766

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4790	.5867	.6986	.7280	.7290	.7360	.7370
PHI															
.000	1.5792	.2998	.3778	-.2041	-.1552	-.1520	-.1257	-.0285	-.0068	-.0238	.2608	.3438	.0362	.2421	-.1192
45.000		.2972	.3023	-.2058	-.1456	-.0883	-.0863	-.0143	.0174	-.0332	.2423				
90.000		.3106	.3093	-.2215	-.1373	-.0721	-.0575	-.0108	-.0182	-.0196	.2007		.0625	.0991	
135.000		.3010	.3080	-.2041	-.1421	-.0715	-.0053	.0622	.0027	-.0028	.3519				
180.000	1.5792	.2863	.3938	-.1962	-.1549	-.1495	.1135	.0794	-.0445	.0098	.4429	.6070	.0000	.2787	-.1880
225.000		.2197	.4375	-.1948	-.1848	-.1920	.0485	.0395	-.0190	-.0241	.5816				

ARC97 19 TAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RET543)

ALPHAL(4) = -.275 BETAL (2) = -3.766

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.8132	.0059	-.3260	-.2489	-.2131	-.2404	-.1119	-.0332	.3731	1.0280	.7003	.6827	-.4110
315.000		.2114	.4936	-.1994	-.1719	-.2221	-.0992	-.1040	-.0351	-.0064	.0000				

X/LS	.8102	.9661	.9120	.9130	.9344	.9565
PHI						
.000	-.0091	-.1987	-.0217	-.1088	.1161	.1881
45.000	.1246	-.1747			.2940	.3546
90.000	-.0123	-.1296	.0000	-.0204	.2586	.2950
135.000	.3184	-.1927			.2219	.2906
180.000	.3158	-.2279	.1403	.1164	.2232	.3073
225.000	-.0034	-.1389			.2248	.0000
270.000	-.1417	-.0940	.0075	-.0685	-.0345	-.0247
315.000	-.1142	-.1110			-.0246	-.0099

ALPHAL(4) = -.246 BETAL (3) = -1.657

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5451	.2302	.3604	-.[illegible]	.1642	-.1674	-.0997	-.0079	-.0066	-.0131	.2390	3540	-.0024	.1349	-.1387
45.000		.2553	.2658	-.1233	-.1635	-.0910	-.0917	.0027	.0209	-.0234	.2432				
90.000		.2642	.2627	-.2405	-.1562	-.0935	-.0620	-.0248	-.0018	-.0218	.2016		.0256	.0593	
135.000		.2589	.2716	-.2189	-.1529	-.0954	.0644	.0203	-.0125	-.0218	.3297				
180.000	1.5451	.2318	.3722	-.2077	-.1661	-.1028	.0816	.0392	-.0409	-.0292	.4210	.6659	.0000	.1715	-.2232
225.000		.1929	.4896	-.1997	-.1946	-.2054	.0548	.0043	-.0509	-.0505	.4626				
270.000		.0000	.8280	-.0[illegible]	-.3307	-.2962	-.2261	-.2450	-.1579	-.0715	.3153	9430	.5778	.5833	-.3856
315.000		.1888	.4937	-.2029	-.1875	-.2601	-.0959	-.0703	-.0586	-.0292	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0208	-.2048	-.0146	-.0924	.1132	.1657
45.000	.1116	-.1606			.2633	.3108
90.000	-.0092	-.1305	.0000	-.0156	.2381	.2693
135.000	.2979	-.1875			.2075	.2635
180.000	.2682	-.2122	.1338	.11[illegible]	.2273	.3100
225.000	-.0558	-.1618			.2254	.0000
270.000	-.1562	-.1107	-.0002	-.0767	-.0518	-.0458
315.000	-.1261	-.1433			-.0543	-.0181

ARC97-019 (A81 LVAP(ALUM SEALED) SRM BOOSTER (RETS43)

ALPHAL(4) = -.238 BETAL (4) = .477

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5299	.2008	.3441	-.2117	-.1755	-.1796	-.0828	-.0107	-.0120	-.0086	.2361	.3905	-.0185	.1663	-.1461
45.000		.2186	.2227	-.2377	-.1732	-.0928	-.1003	.0247	.0180	-.0202	.2518				
90.000		.2198	.2119	-.2580	-.1787	-.0960	-.0726	-.0238	.0151	-.0221	.2064		-.0089	.0223	
135.000		.2164	.2335	-.2288	-.1777	-.0963	.0508	-.0120	-.0231	- 366	.3147				
180.000	1.5299	.2040	.3501	-.2093	-.1710	-.1576	.0518	-.0132	-.0694	-..617	.3348	.8278	.0000	- .0079	-.2592
225.000		.1786	.4833	-.1381	-.1838	-.2042	.0718	-.0072	-.0305	-.0421	.4070				
270.000		.0000	.8363	.0317	-.3290	-.2655	-.2148	-.2148	-.1270	-.0520	.2610	.8253	.3212	.4070	-.3116
315.000		.1795	.4966	-.1981	-.1818	-.2597	-.0914	-.0518	-.0552	-.0237	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0066	-.1679	.0208	-.0529	.1217	.1481
45.000	.1084	-.1241			.2917	.3155
90.000	-.0086	-.1321	.0000	.0651	.3444	.3648
135.000	.2744	-.1954			.2453	.2955
180.000	.2065	-.1960	.1407	.1306	.2307	.2606
225.000	-.1111	-.2107			.1690	.0000
270.000	-.1602	-.1312	.0381	-.0701	-.0347	-.0284
315.000	-.1404	-.1695			-.0315	-.0098

ALPHAL(4) = -.218 BETAL (5) = 2.599

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4931	.1775	.3354	-.2188	-.1829	-.1950	-.0828	-.0185	-.0153	-.0122	.2342	.3890	.0161	.0877	-.1207
45.000		.1743	.2048	-.2435	-.1937	-.1221	-.1035	.0366	.0115	-.0234	.2390				
90.000		.1718	.1841	-.2775	-.2042	-.1161	-.0420	-.0060	.0088	-.0330	.2492		.0062	.0608	
135.000		.1888	.2041	-.2319	-.1947	-.1138	.0290	-.0382	-.0472	-.0687	.2760				
180.000	1.4931	.1715	.3332	- 2188	-.1803	-.1775	.0639	-.0685	-.0674	-.0687	.2620	.6793	.0000	-.0720	-.2238
225.000		.1556	.4687	-.1998	- 1873	-.2013	.0978	-.0525	-.0157	-.0414	.3477				
270.000		0000	.8283	.0382	-.3340	-.2704	-.2248	-.1767	-.0783	-.0234	.2304	.8453	.2403	.2422	-.2967
315.000		.1705	.4877	-.2023	-.1635	-.2598	-.0767	-.0522	-.0443	-.0196	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
000	.0500	-.1529	.0734	-.0302	.1606	.1736
45.000	.1604	- 1258			.2795	.2874
90.000	.0823	- 0981	0000	.0300	.2773	.3001
135.000	.2409	-.1560			.2633	.2742
180.000	.0783	-.0962	.1825	.1308	.2053	.1798

ARC97-012 1A81 LVAP(ALUM. SEALED) SRM BOOSTER (RETS43)

ALPHAL(4) = -.219 BETAL (5) = 2.594

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1137	-.2194			.2012	.0000
270.000	-.1519	-.1178	.0783	-.0478	-.0051	-.0023
315.000	-.1328	-.1761			.0210	.0465

ALPHAL(4) = -.205 BETAL (6) = 4.036

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4680	.1574	.3089	-.2294	-.2009	-.2136	-.0629	-.0251	-.0168	.0440	.2897	.4228	.0713	.0671	-.1730
45.000		.1381	.1709	-.2583	-.2143	-.1383	-.0814	.0328	-.0015	.0366	.2986				
90.000		.1352	.1339	-.2948	-.2203	-.1233	-.0238	.0147	-.0041	.0260	.3031		-.0988	-.1148	
135.000		.1390	.1637	-.2607	-.2085	-.1306	.0108	-.0553	-.0533	-.0022	.3254				
180.000	1.4680	.1520	.3089	-.2267	-.1949	-.1786	.0319	-.0906	-.0448	.1064	.3107	.6983	.0000	-.1402	-.2587
225.000		.1482	.4575	-.2044	-.1938	-.2060	.1010	-.0848	-.0234	.2460	.3385				
270.000		.0000	.8159	.0363	-.3326	-.2820	-.1775	-.1377	-.0632	.1224	.2954	.7155	.3168	.3937	-.3283
315.000		.1568	.4781	-.2012	-.1777	-.2268	-.0582	-.0467	-.0286	.0433	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0875	-.1091	.0802	.0162	.1717	.1742
45.000	.1481	-.1441			.2317	.2371
90.000	.0751	-.0864	.0000	.0322	.2609	.2342
135.000	.1271	-.1087			.1950	.1648
180.000	.1006	-.1196	.1309	.1243	.2777	.2048
225.000	-.1113	-.1763			.1078	.0000
270.000	-.1444	-.1170	.0525	-.0655	-.0186	-.0072
315.000	-.1014	-.1674			.0567	.0810

ALPHAL(4) = -.198 BETAL (7) = 8.721

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4381	.1210	.2834	-.2350	-.2081	-.2180	-.0543	-.0052	.0471	.0365	.2734	.4285	.0896	.0915	-.1968
45.000		.0859	.1511	-.2783	-.2272	-.1489	-.0444	.0998	.0359	.0111	.2781				
90.000		.0953	.1045	-.3055	-.2224	-.1157	-.0125	.1124	.0318	-.0165	.2995		-.1394	-.1667	
135.000		.1004	.1324	-.2706	-.2205	-.1453	-.0170	.0394	-.0110	-.0075	.3251				
180.000	1.4381	.1242	.3012	-.2247	-.2001	-.1763	-.0014	-.0960	-.0072	.1680	.2893	.7264	.0000	-.1132	-.2786
225.000		.1372	.4586	-.2033	-.1877	-.1820	.0829	-.1110	.0124	.2596	.3857				

ARC97-019 IA81 LVAP(ALUM. SEALED) SRM BOOSTER (RETS43)

ALPHAL(4) = -.198 BETAL (7) = 6.721

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.8044	.0362	-.3244	-.2737	-.1633	-.1043	.0072	.1441	.3481	.8187	.5062	.6658	-.3590
315.000		.1318	.4672	-.2072	-.1785	-.2213	-.0441	-.0422	.0516	.0648	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0674	-.1451	.1473	.0054	.2180	.2364
45.000	.1254	-.1636			.2231	.2079
90.000	.0769	-.1178	.0000	.0152	.1654	.1444
135.000	.0884	-.1620			.1346	.1291
180.000	.0751	-.1744	.1406	.0461	.1631	.1214
225.000	-.1509	-.1423			.0098	.0000
270.000	-.1617	-.1232	-.0198	-.0829	-.0571	-.0460
315.000	-.1076	-.1655			.0598	.1186

ALPHAL(5) = 1.951 BETAL (1) = .529

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5249	.2609	.4035	-.1928	-.1450	-.1599	-.0841	-.0081	-.0122	-.0017	.2271	.3996	.0524	.0971	-.1504
45.000		.2429	.2666	-.2210	-.1638	-.0940	-.1003	.0107	.0177	-.0092	.2657				
90.000		.2216	.2061	-.2594	-.1966	-.1217	-.0930	.0058	.0130	-.0229	.2523		-.0278	-.0166	
135.000		.1931	.1848	-.2577	-.1969	-.0982	.0225	-.0001	.0111	-.0139	.3291				
180.000	1.5249	.1538	.3034	-.2395	-.2058	-.1418	.0158	-.0122	-.0518	.0179	.3983	.7778	.0000	.0323	-.2231
225.000		.1367	.4045	-.2367	-.2523	-.2335	-.0389	.0130	-.0473	-.0178	.4404				
270.000		.0000	.8118	.0117	-.3271	-.2427	-.0695	-.0291	-.0557	-.0185	.2172	.7560	.3641	.3470	-.3146
315.000		.2283	.5561	-.1663	-.0832	-.1678	-.0625	-.0036	-.0287	.0005	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0282	-.1371	.0628	.0015	.1797	.2094
45.000	.1173	-.0834			.2522	.2498
90.000	-.0248	-.1254	.0000	.0581	.3712	.3522
135.000	.3120	-.1810			.2465	.3084
180.000	.2027	-.1950	.1610	.1157	.2078	.2281
225.000	-.0974	-.2024			.1983	.0000
270.000	-.1591	-.1286	.0739	-.0589	-.0115	-.0049
315.000	-.1282	-.1543			.0069	.0320

ARC97-018 IAB1 LVAP(ALLML SEALED) SRM BOOSTER (RETS43)

ALPHAL(8) = 3.515 BETAL (1) = -3.814

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1858	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5830	.3578	.4930	-.1580	-.1014	-.0941	-.0712	.0242	.0298	.0173	.2353	.3968	.0481	.0178	-.1222
45.000		.3433	.3958	-.1797	-.1164	-.0445	-.0718	-.0188	.0372	.0160	.2874				
90.000		.2967	.3081	-.2241	-.1599	-.1374	-.1163	-.0426	.0083	-.0155	.3025		.0540	.0701	
135.000		.2461	.2182	-.2537	-.1886	-.1075	-.0734	.0299	.0375	.0028	.3464				
180.000	1.5630	.1863	.2568	-.2350	-.2013	-.1177	-.0124	.0127	.0073	.0205	.4200	.5907	.0000	.2256	-.0383
225.000		.1461	.3298	-.2626	-.3052	-.1739	-.1061	.0079	.0086	.0339	.4993				
270.000		.0000	.7626	-.0340	-.4029	-.1975	-.0458	.0407	.0131	.0250	.1464	.7462	.4555	.3339	-.3484
315.000		.2961	.6246	-.1390	-.0283	-.2008	-.0578	.0381	.0115	.0214	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0512	-.1460	.0305	-.0881	.2804	.3523
45.000	.1962	-.1289			.3311	.3124
90.000	.0891	-.0334	.0000	.0273	.2883	.2592
135.000	.3508	-.1588			.2215	.2705
180.000	.2784	-.1801	.2187	.0717	.1921	.2119
225.000	-.0643	-.2208			.2294	.0000
270.000	-.0967	-.0993	.1167	-.0261	.0448	.0208
315.000	-.0977	-.1044			.0203	.0611

ALPHAL(6) = 3.501 BETAL (2) = .598

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5164	.3183	.4565	-.1719	-.1174	-.1282	-.0977	.0036	-.0099	.0011	.2180	.3957	.0525	.0257	-.1775
45.000		.2632	.3173	-.2149	-.1585	-.1048	-.1081	-.0185	.0021	-.0084	.2948				
90.000		.2049	.2071	-.2832	-.2021	-.1689	-.1233	-.0115	.0108	-.0304	.2857		-.0740	-.0854	
135.000		.1653	.1394	-.2735	-.2135	-.1208	-.0374	.0036	.0250	-.0040	.3167				
180.000	1.5164	.1181	.2361	-.2533	-.2293	-.1127	-.0292	.0002	-.0224	.0091	.3799	.6179	.0000	-.0077	-.1401
225.000		.0935	.3221	-.2723	-.3266	-.1851	-.0878	.0014	-.0103	.0728	.3976				
270.000		.0000	.7771	-.0150	-.4012	-.1977	-.0317	.0308	-.0056	.0656	.1598	.5516	.2584	.1694	-.2845
315.000		.2729	.6259	-.1367	-.0365	-.1337	-.0409	.0305	-.0110	.0263	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0572	-.1144	.1059	.0431	.2418	.2956
45.000	.1320	-.1094			.3773	.3905
90.000	.0645	-.0424	.0000	.0855	.2460	.2089
135.000	.2733	-.1567			.2809	.3238
180.000	.1614	-.1469	.1973	.1144	.1904	.1885

ARC97-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RET843)

ALPHAL(8) = 3.501 BETAL (2) = .898

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0817	-.2672			.2567	.0000
270.000	-.1408	-.1103	.0569	-.0276	.0314	.0285
315.000	-.1242	-.1397			.0623	.1171

ALPHAL(6) = 3.443 BETAL (3) = 4.141

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4547	.2666	.4148	-.1827	-.1416	-.1843	-.0933	-.0479	-.0292	.0014	.2955	.5820	.0815	.0639	-.2285
45.000		.1722	.2411	-.2521	-.2069	-.1747	-.1202	-.0835	-.0308	.0827	.2845				
90.000		.1155	.1258	-.2986	-.2445	-.1950	-.0854	.0194	-.0055	.0371	.2646		-.1223	-.1491	
135.000		.0809	.0931	-.2812	-.2303	-.1233	.0014	.0014	-.0062	.0931	.3263				
180.000	1.4547	.0497	.2156	-.2704	-.2455	-.1648	-.0169	-.0185	-.0142	.1909	.3469	.5578	.0000	-.1162	-.1840
225.000		.0472	.3044	-.2843	-.3405	-.2322	-.0491	-.0062	-.0018	.2118	.3418				
270.000		.0000	.8070	.0273	-.3209	-.2287	-.0074	.0005	-.0018	.1409	.2421	.5034	.2119	.1567	-.2670
315.000		.2503	.6243	-.1378	-.0444	-.1161	.0109	.0020	-.0110	.0583	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1246	-.0075	.2528	.0679	.3679	.4251
45.000	.2109	-.1191			.3993	.3581
90.000	.0815	-.0189	.0000	.0594	.1635	.1261
135.000	.1751	-.1131			.2311	.2118
180.000	.0744	-.0707	.1780	.1019	.1594	.1026
225.000	-.0834	-.2142			.2242	.0000
270.000	-.1371	-.0913	.1462	-.0017	.0629	.0456
315.000	-.0982	-.1567			.2006	.2480

ALPHAL(7) = 6.241 BETAL (1) = .857

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4947	.3673	.5026	-.1589	-.0874	-.0378	-.0670	.0077	-.0198	-.0094	.2828	.5071	.2460	.1718	-.2194
45.000		.2710	.3497	-.2100	-.1537	-.1098	-.1251	-.0540	-.0404	-.0190	.3243				
90.000		.1880	.2005	-.2656	-.2182	-.2419	-.1739	-.0828	-.0255	-.0260	.3040		-.0820	-.1037	
135.000		.1375	.0879	-.2972	-.2312	-.1498	-.0869	.0001	.0260	.0065	.2581				
180.000	1.4947	.0787	.1671	-.2862	-.2498	-.1585	-.0344	.0023	.0142	.1058	.3474	.5156	.0000	-.0452	-.1062
225.000		.0497	.2373	-.3137	-.3914	-.2441	-.0784	-.0065	.0228	.1841	.3765				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS43)

ALPHAL(7) = 6.241 BETAL (1) = .857

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.7286	-.0381	-.3863	-.2473	-.0299	.0004	.0183	.1321	.2913	.5244	.2318	.2250	-.2689
315.000		.3213	.8739	-.1184	-.0065	-.1077	-.0448	.0425	.0094	.0244	.0000				

X/LS	.8102	.8881	.9120	.9130	.9344	.9565
PHI						
.000	.1205	-.0895	.2124	.0623	.3070	.3302
45.000	.1473	-.0832			.3868	.3862
90.000	.0982	-.0137	.0300	.0981	.1942	.1540
135.000	.2192	-.1325			.3013	.3061
180.000	.1211	-.1157	.1886	.0997	.1697	.1409
225.000	-.0715	-.2557			.2002	.0000
270.000	-.1429	-.0895	.1053	-.0017	.0629	.0179
315.000	-.0980	-.1473			.1710	.2086

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS44) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAL(1) = -6.935 BETAL (1) = .202

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7249	.1225	.0761	-.1535	-.1269	-.1282	-.1525	-.1198	-.0810	-.0475	.1137	.2905	.0743	.1197	-.1854
45.000		.1702	.1358	-.1675	-.1633	-.0763	-.0906	-.1096	-.1805	-.1807	-.0777				
90.000		.2133	.2146	-.1363	-.1282	-.1537	-.1154	-.1228	-.2191	-.1869	-.0673		-.0243	-.0142	
135.000		.3069	.2963	-.0944	-.0663	-.0383	-.0178	-.0278	-.0631	-.1066	-.0572				
180.000	1.7249	.4164	.4029	-.0047	.0256	.0059	.1407	.0853	.0110	-.0400	.0269	.3246	.0000	.2487	-.2165
225.000		.3939	.5961	.0797	.0997	-.0702	.2509	.1220	.0250	-.0172	.2255				
270.000		.0000	.8957	.2190	.1200	-.2871	-.0935	-.0970	-.0179	-.0354	.2310	.6900	.3140	.3197	-.2924
315.000		.1261	.3422	-.1176	-.2252	-.3206	-.1699	-.1302	-.0159	-.0211	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0675	-.1301	.0658	-.1062	.1331	.0906
45.000	-.0055	-.1626			-.0176	-.0276
90.000	-.1540	-.1214	.0000	-.0711	-.0195	.0138
135.000	.0466	-.2109			.0127	.1368
180.000	.0897	-.2100	.0658	-.1000	.2191	.3512
225.000	-.0416	-.1408			.1640	.0000
270.000	-.1398	-.0992	.0339	-.0772	-.0369	-.0350
315.000	-.0635	-.1295			.0078	.0310

ALPHAL(2) = -4.773 BETAL (1) = -4.078

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8157	.2253	.1605	-.1428	-.0701	-.0692	-.1506	-.0802	-.0934	-.0428	.0745	.1338	-.0139	.0567	-.1603
45.000		.2762	.2432	-.1234	-.1117	-.0341	-.0423	-.0889	-.1238	-.1386	-.0229				
90.000		.3220	.3400	-.0857	-.0285	-.0850	-.0442	-.0577	-.1328	-.1837	-.0551		.0259	.0586	
135.000		.3827	.3705	-.0618	-.0296	.0261	-.0082	.1021	.0218	-.0229	.0446				
180.000	1.8157	.4241	.3615	-.0298	.0384	.0148	-.0352	.1899	.0612	.0271	.0911	.5031	.0000	.2313	-.1632
225.000		.3855	.7339	.0687	.0838	-.1128	.1790	.1982	.0599	.0684	.1687				
270.000		.0000	.9318	.2132	.0355	-.2748	-.1307	-.0618	-.0242	-.0142	.3060	1.0182	.7650	.8598	-.2788
315.000		.2072	.4517	-.0672	-.1387	-.2798	-.1111	-.1368	-.0505	-.0015	.0000				

ARC97-018 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS44)

ALPHAL(2) = -4.773 BETAL (1) = -4.078

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0327	-.1255	-.0036	-.1287	.0311	-.0017
45.000	.0434	-.1355			.0314	.0899
90.000	-.1085	-.1127	.0000	-.1303	.0851	.1877
135.000	.1304	-.1037			.1330	.2179
180.000	.2587	-.1329	.1751	-.1091	.1590	.3321
225.000	.0134	-.2156			.2323	.0000
270.000	-.1570	-.1152	.0259	-.0628	-.0114	.0148
315.000	-.0914	-.1480			.0201	-.0037

ALPHAL(2) = -4.735 BETAL (2) = .152

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7370	.1650	.1281	-.1259	-.1112	-.1106	-.1541	-.0776	-.0239	-.0257	.1585	.2536	.0408	.1389	-.1441
45.000		.1960	.1656	-.1615	-.1453	-.0566	-.0686	-.0934	-.0895	-.0559	-.0131				
90.000		.2290	.2329	-.1272	-.1173	-.1250	-.0622	-.0715	-.1593	-.1431	.0022		.0029	.0337	
135.000		.2908	.2737	-.1044	-.0742	-.0350	-.0593	.0044	-.0186	-.0870	-.0225				
180.000	1.7370	.3677	.3274	-.0344	.0026	-.0206	.1381	.0896	.0174	-.0419	.0450	.4034	.0000	.2274	-.2183
225.000		.3565	.6771	.0604	.0636	-.1218	.2011	.1224	.0129	-.0098	.2795				
270.000		.0000	.9236	.2500	.0267	-.2802	-.1181	-.0908	-.0254	-.0267	.2555	.7643	.3530	.5056	-.2960
315.000		.1695	.4125	-.0781	-.1591	-.2995	-.1294	-.1561	-.0267	-.0150	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0078	-.1512	.0073	-.1114	.1294	.1176
45.000	.0356	-.1196			.0333	.0378
90.000	-.0839	-.1048	.0000	-.0680	.0626	.1185
135.000	.1281	-.1772			.0571	.1273
180.000	.1323	-.2013	.0674	-.0689	.1462	.2941
225.000	-.0347	-.1270			.1002	.0000
270.000	-.1367	-.1000	.0233	-.0705	-.0332	-.0233
315.000	-.0704	-.1228			-.0104	.0062

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS44)

ALPHAL(2) = -4.730 BETAL (3) = 3.755

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6234	.0969	.0937	-.1494	-.1129	-.1425	-.1261	-.0523	-.0010	-.0186	.1119	.3810	.0969	.0937	-.1544
45.000		.1180	.1008	-.1820	-.1672	-.0747	-.0818	-.0478	-.0084	-.0270	-.0438				
90.000		.1393	.1445	-.1610	-.1547	-.1518	-.0735	-.0975	-.1094	-.0837	.0526		-.0404	-.0142	
135.000		.1933	.1926	-.1370	-.1177	-.0869	-.0193	-.0837	-.0885	-.1381	-.0283				
180.000	1.8234	.2957	.3072	-.0644	-.0249	-.0519	.0734	.0058	-.0468	-.0649	.0394	.4834	.0000	.0185	-.2480
225.000		.3059	.4317	.0452	.0455	-.1142	.2138	.0474	-.0270	-.0225	.1737				
270.000		.0000	.9177	.2986	.0326	-.2893	-.0975	-.1347	-.0587	-.0150	.1384	.7249	.3755	.5531	-.2927
315.000		.1235	.3885	-.0824	-.1785	-.2987	-.1283	-.1274	-.0322	-.0212	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9585
PHI						
.000	.0985	-.1274	.0402	-.1195	.1125	.1807
45.000	.0959	-.1374			.1312	.1183
90.000	.0004	-.0946	.0000	-.0408	.0258	.0238
135.000	.0205	-.1155			.0171	.0926
180.000	.0295	-.1683	.0585	-.0597	.1739	.1399
225.000	-.0779	-.1564			.0431	.0000
270.000	-.1307	-.1238	-.0443	-.0890	-.0671	-.0471
315.000	-.0786	-.1651			.0007	.1081

ALPHAL(3) = -2.528 BETAL (1) = .155

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7430	.2010	.1540	-.1249	-.0742	-.0958	-.1493	-.0470	.0022	-.0130	.1644	.2197	.0351	.1428	-.1156
45.000		.2178	.1916	-.1492	-.1302	-.0527	-.0573	-.0798	-.0220	-.0075	-.0351				
90.000		.2379	.2340	-.1291	-.1138	-.1019	-.0297	-.0474	-.0875	-.0597	.0940		.0444	.0785	
135.000		.2660	.2495	-.1186	-.0926	-.0356	-.0618	.0440	-.0192	-.0833	.0518				
180.000	1.7430	.3078	.2557	-.0755	-.0186	-.0536	.0694	.1051	.0204	-.0607	.0697	.4294	.0000	.2835	-.1998
225.000		.3092	.6422	.0300	.0158	-.1782	.0903	.0993	-.0030	-.0137	.3102				
270.000		.0000	.9368	.2694	-.0553	-.2814	-.0670	-.1001	-.0503	-.0419	.3032	.8491	.5307	.6416	-.2869
315.000		.2084	.5087	-.0448	-.0984	-.2670	-.0898	-.0721	-.0432	-.0208	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0088	-.1493	-.0118	-.1328	.1138	.1354
45.000	.0992	-.0939			.1303	.1788
90.000	-.0368	-.0884	.0000	-.0746	.1657	.2298
135.000	.2207	-.1345			.0868	.1492
180.000	.1789	-.1641	.1119	-.0781	.1142	.2455

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS44)

ALPHAL(3) = -2.528 BETAL (1) = .135

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0086	-.1329			.1058	.0000
270.000	-.1361	-.0978	.0343	-.0639	-.0301	-.0208
315.000	-.0907	-.1177			-.0166	.0259

ALPHAL(4) = -.330 BETAL (1) = -8.123

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8750	.3475	.2642	-.0997	-.0105	-.0144	-.0841	.0040	-.0017	-.0053	.1656	.2842	.0542	.0410	-.0971
45.000		.3718	.3338	-.0842	-.0603	.0247	.0053	-.0184	.0133	-.0021	-.0095				
90.000		.3849	.3772	-.0620	-.0378	-.0163	.0493	.0095	-.0017	.0005	.1049		.0981	.1487	
135.000		.3738	.3437	-.0773	-.0529	.0061	.0069	.1057	.0742	.0288	.1508				
180.000	1.8750	.3587	.2723	-.0830	-.0054	-.0202	-.0950	.1939	.0929	.0778	.1440	.5692	.0000	.2704	-.0878
225.000		.3325	.6129	.0199	.0029	-.1969	.0092	.1342	.0545	.0755	.3748				
270.000		.0000	.9629	.2140	-.0949	-.2528	.0079	-.0723	-.1223	.0038	.3549	1.1498	.9351	1.0772	-.2717
315.000		.3220	.8902	.0106	.0051	-.2008	-.0322	.0117	-.0515	.0057	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0690	-.1490	-.1254	-.1577	.0142	.0835
45.000	.1026	-.0997			.0859	.3862
90.000	.0345	-.0282	.0000	.0209	.2772	.3485
135.000	.1926	-.0663			.2544	.2428
180.000	.3393	-.0689	.3003	-.0907	.1121	.2166
225.000	.0721	-.2083			.1450	.0000
270.000	-.1815	-.0955	.0013	-.0484	-.0096	-.0048
315.000	-.0869	-.1314			-.0423	.0099

ALPHAL(4) = -.324 BETAL (2) = -4.075

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8250	.3165	.2407	-.0937	-.0147	-.0282	-.0962	-.0034	-.0012	.0028	.1666	.2690	.0378	.0284	-.1012
45.000		.3357	.3031	-.0933	-.0738	-.0090	-.0195	-.0365	.0133	.0060	.0008				
90.000		.3433	.3385	-.0799	-.0561	-.0426	.0242	-.0173	-.0128	-.0076	.1055		.0788	.1175	
135.000		.3385	.3114	-.0898	-.0641	-.0189	-.0166	.1003	.0435	.0186	.1249				
180.000	1.8250	.3228	.2539	-.0805	-.0081	-.0359	-.1056	.1693	.0499	.0445	.1226	.5131	.0000	.2677	-.1050
225.000		.3050	.6156	.0135	-.0090	-.2062	.0048	.1109	.0402	.0606	.3385				

ARC97-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS44)

ALPHAL(4) = -.324 BETAL (2) = -4.075

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.9578	.2329	-.1017	-.2582	-.0002	-.0985	-.1123	-.0387	.3436	1.0956	.8622	.9913	-.2800
315.000		.2955	.5955	.0058	-.0077	-.2122	-.0426	-.0054	-.0541	-.0134	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0407	-.1452	-.1009	-.1426	.0352	.1228
45.000	.0949	-.1067			.2756	.3725
90.000	.0249	-.0187	.0000	.0221	.2323	.2945
135.000	.1636	-.0669			.2531	.2289
180.000	.3336	-.1060	.2368	-.0973	.0846	.2137
225.000	.0532	-.2184			.2095	.0000
270.000	-.1606	-.0929	.0038	-.0450	.0005	-.0033
315.000	-.0887	-.1262			-.0338	.0099

ALPHAL(4) = -.316 BETAL (3) = -1.958

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7921	.2875	.2207	-.0971	-.0268	-.0514	-.1093	-.0118	.0084	.0060	.1692	.2211	.0612	.0802	-.1216
45.000		.2923	.2594	-.1155	-.0931	-.0361	-.0375	-.0497	.0180	.0141	.0629				
90.000		.2990	.2855	-.1035	-.0883	-.0620	.0045	-.0320	-.0170	-.0072	.1110		.0718	.0976	
135.000		.3003	.2668	-.1092	-.0854	-.0412	-.0356	.0779	.0115	-.0079	.1637				
180.000	1.7921	.2955	.2349	-.0877	-.0252	-.0537	-.1138	.1438	.0212	-.0031	.1201	.4859	.0000	.3318	-.1251
225.000		.2839	.6056	.0072	-.0226	-.2143	.0587	.0782	.0092	.0109	.3276				
270.000		.0000	.9517	.2529	-.1056	-.2656	-.0179	-.1202	-.0770	-.0415	.3347	.9757	.7345	.7874	-.2828
315.000		.2768	.6008	.0005	-.0171	-.2198	-.0519	-.0195	-.0454	-.0321	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0212	-.1350	-.0349	-.1019	.0520	.1236
45.000	.1086	-.0705			.2310	.3134
90.000	.0086	-.0311	.0000	-.0028	.2246	.2779
135.000	.1864	-.0670			.2131	.2079
180.000	.3086	-.1235	.2012	-.1016	.0799	.2104
225.000	.0254	-.2136			.1531	.0000
270.000	-.1357	-.0943	.0267	-.0564	-.0195	-.0151
315.000	-.0959	-.1276			-.0266	.0040

ARC97-019 TA81 LVAP(ALLML SEALED RM BOOSTER (RETS44)

ALPHAL(4) = -.290 BETAL (4) = .137

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7430	.2495	.1944	-.1045	-.0444	-.0728	-.1223	-.0205	.0083	.0023	.1613	.2948	.0382	.1253	-.1108
45.000		.2392	.2201	-.1384	-.1107	-.0569	-.0595	-.0579	.0272	.0158	.1326				
90.000		.2417	.2350	-.1264	-.1100	-.0831	-.0154	-.0275	-.0154	.0003	.0952		.0556	.0811	
135.000		.2427	.2276	-.1280	-.1048	-.0681	-.0576	.0576	-.0094	-.0316	.1872				
180.000	1.7430	.2543	.2037	-.1033	-.0424	-.0751	-.0877	.1009	.0084	-.0523	.1342	.4152	.0000	.3495	-.1547
225.000		.2601	.5823	-.0014	-.0335	-.2257	0669	.0490	-.0010	-.0242	.3353				
270.000		.0000	.9448	.2747	-.1023	-.2741	-.0387	-.1341	-.0778	-.0571	.3154	.9033	.6061	.6227	-.2795
315.000		.2550	.5878	-.0040	-.0264	-.2289	-.0647	-.0256	-.0300	-.0403	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0205	-.1049	-.0330	-.0996	.0622	.0940
45.000	.0801	-.0870			.1497	.1917
90.000	.0056	-.0623	.0000	-.0403	.2218	.2786
135.000	.2641	-.0908			.1811	.1747
180.000	.2343	-.1369	.1625	-.1105	.0725	.1951
225.000	.0191	-.1991			.1334	.0000
270.000	-.1318	-.1113	.0308	-.0772	-.0400	-.0379
315.000	-.0966	-.1328			-.0464	-.0098

ALPHAL(4) = -.292 BETAL (5) = 2.268

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6827	.2182	.1789	-.1119	-.0623	-.0919	-.1309	-.0224	.0074	-.0092	.1677	.3089	.0471	.1436	-.1310
45.000		.1921	.1766	-.1342	-.1042	-.0592	-.0797	-.0467	.0275	.0028	.1355				
90.000		.1889	.1902	-.1470	-.1300	-.0980	-.0278	-.0246	-.0077	-.0037	.1009		.0278	.0636	
135.000		.1956	.1834	-.1453	-.1220	-.0673	-.0730	.0263	-.0147	-.0418	.1965				
180.000	1.6827	.2214	.1773	-.1105	-.0960	-.0964	.0432	.0650	-.0324	-.0676	.1329	.6577	.0000	.1462	-.1958
225.000		.2401	.5597	-.0042	-.0394	-.2290	.0343	.0090	-.0276	-.0311	.2488				
270.000		.0000	.9378	.3019	-.1076	-.2744	-.0426	-.1482	-.0844	-.0434	.1781	.7956	.3766	.4670	-.2988
315.000		.2359	.5756	-.0074	-.0343	-.2321	-.0688	-.0246	-.0327	-.0395	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0387	-.1088	.0200	-.0402	.0841	.1203
45.000	.0716	-.0924			.1440	.1517
90.000	.0184	-.0761	.0000	-.0402	.2446	.2734
135.000	.2542	-.1206			.1226	.1689
180.000	.1802	-.1158	.1258	-.0450	.0745	.1511

ARC97-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS44)

ALPHAL(4) = -.292 BETAL (5) = 2.268

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0066	-.1494			.1443	.0000
270.000	-.1331	-.1007	-.0005	-.0718	-.0498	-.0405
315.000	-.0972	-.1312			-.0229	.0135

ALPHAL(4) = -.286 BETAL (6) = 3.713

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6180	.1847	.1712	-.1111	-.0703	-.1093	-.1122	-.0277	-.0072	-.0137	.1438	.3083	.1134	.1766	-.1551
45.000		.1509	.1470	-.1658	-.1362	-.0728	-.0882	-.0328	.0184	-.0066	.1213				
90.000		.1483	.1474	-.1610	-.1461	-.1084	-.0354	-.0232	.0018	-.0101	.1254		.0312	.0602	
135.000		.1570	.1448	-.1625	-.1337	-.0786	-.0761	.0044	-.0302	-.0508	.1745				
180.000	1.6180	.1921	.1677	-.1064	-.0735	-.1080	.0726	.0146	-.0440	-.0670	.1284	.6854	.0000	.0538	-.2150
225.000		.2192	.5446	-.0104	-.0472	-.1813	-.0552	.0056	-.0508	-.0192	.2178				
270.000		.0000	.9221	.3259	-.1212	-.1858	-.1196	-.1369	-.0808	-.0411	.1852	.7741	.3966	.4688	-.2953
315.000		.2092	.5589	-.0124	-.0421	-.1911	-.0956	-.0171	-.0327	-.0289	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1080	-.1009	.0778	-.0315	.1323	.1525
45.000	.0835	-.0839			.1686	.1577
90.000	.0406	-.0650	.0000	-.0491	.2192	.2369
135.000	.1729	-.1130			.0951	.1351
180.000	.1258	-.0759	.1073	-.0107	.1092	.1577
225.000	-.0343	-.1518			.0830	.0000
270.000	-.1258	-.1130	-.0357	-.0806	-.0520	-.0284
315.000	-.0913	-.1492			.0435	.1260

ALPHAL(4) = -.278 BETAL (7) = 8.486

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0300	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5738	.1593	.1612	-.1120	-.0829	-.1175	-.1066	-.0330	-.0157	-.0198	.1287	.3284	.1372	.1759	-.1550
45.000		.1145	.1164	-.1758	-.1476	-.0929	-.0998	-.0086	.0087	-.0147	.1242				
90.000		.1145	.1198	-.1723	-.1595	-.1166	-.0432	-.0262	.0035	-.0140	.1409		.0043	.0427	
135.000		.1219	.1135	-.1710	-.1454	-.0964	-.0109	-.0320	-.0486	-.0544	.1493				
180.000	1.5738	.1702	.1702	-.1018	-.0868	-.1121	.0570	-.0294	-.0712	-.0528	.1261	.7047	.0000	-.0279	-.211
225.000		.2118	.5328	-.0147	-.0468	-.1617	-.0109	-.0058	-.0747	-.0476	.1477				

ARC97-019 IAB1 LVAP(ALUM SEALED) SRM BOOSTER (RETS44)

ALPHAL(4) = -.276 BETAL (7) = 6.466

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0650	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.8887	.2770	-.1204	-.1787	-.1079	-.0980	-.0715	-.0389	.1713	.8452	.5190	.7325	-.2891
315.000		.1979	.5580	-.0147	-.0448	-.1876	-.0820	-.0022	-.0331	-.0263	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1114	-.0836	.0946	.0206	.1786	.2189
45.000	.1101	-.0564			.2132	.2170
90.000	.0966	-.0333	.0000	-.0067	.2814	.2856
135.000	.1039	-.0589			.1577	.1789
180.000	.1003	-.0769	.1417	.0375	.0821	.0615
225.000	-.0570	-.1652			.0385	.0000
270.000	-.1208	-.1131	-.0416	-.0748	-.0522	-.0339
315.000	-.0865	-.1468			.0350	.1213

ALPHAL(5) = 1.874 BETAL (1) = .204

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7466	.2971	.2443	-.0878	-.0236	-.0524	-.1057	-.0153	.0090	.0005	.1560	.3153	.0644	.1600	-.1080
45.000		.2607	.2427	-.1283	-.0979	-.0316	-.0660	-.0496	.0286	.0193	.1414				
90.000		.2331	.2336	-.1782	-.1116	-.0956	-.0298	-.0570	.0093	.0196	.1382		.0473	.0676	
135.000		.2235	.1953	-.1759	-.1184	-.0622	-.0580	.0452	.0054	-.0143	.2109				
180.000	1.7466	.2091	.1614	-.1275	-.0697	-.0956	-.0602	.0648	.0089	-.0159	.2681	.4799	.0000	.2904	-.1322
225.000		.2217	.5285	-.0328	-.0928	-.2596	-.0179	.0212	-.0069	-.0369	.3616				
270.000		.0000	.9304	.2603	-.1338	-.2654	-.0115	.0084	-.0285	-.0369	.2788	.7955	.5778	.5693	-.2875
315.000		.3000	.5469	.0274	.0428	-.1964	-.0734	.0198	.0038	-.0140	.0000				

X/LS	.8102	.8651	.9120	.9130	.9344	.9565
PHI						
.000	.0218	-.1090	.0438	-.0453	.1262	.1740
45.000	.0928	-.0362			.1753	.1724
90.000	.0118	-.0323	.0000	-.0158	.2586	.2998
135.000	.2214	-.0609			.2436	.2092
180.000	.2956	-.0837	.2195	-.1120	.0483	.1801
225.000	.0142	-.2175			.1846	.0000
270.000	-.1278	-.1045	.0538	-.0703	-.0222	-.0240
315.000	-.1020	-.1254			-.0254	.0195

ARC87-019 IA81 LVAP(ALLML SEALED) SRM BOOSTER (RETS44)

ALPHAL(6) = 3.448 BETAL (1) = -3.994

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7200	.7290	.7360	.7370
PHI															
.000	1.8153	.4105	.3313	-.0607	.0283	.0216	-.0553	-.0181	.0377	.0318	.1714	.3721	.0881	.0820	-.1223
45.000		.3766	.3600	-.0713	-.0450	.0226	-.0113	-.0075	.0092	.0363	.0382				
90.000		.3274	.3329	-.0836	-.0607	-.0798	-.0335	-.0620	.0162	.0234	.1646		.0548	.0306	
135.000		.2862	.2497	-.1171	-.1068	-.0316	-.0370	.0021	.0195	.0237	.2280				
180.000	1.8153	.2417	.1620	-.1555	-.0655	-.0668	-.0883	.0990	.0253	.0191	.3129	.4897	.0000	.2191	-.0510
225.000		.2310	.0673	-.0473	-.1075	-.2747	-.0206	.0159	.0104	.0172	.3469				
270.000		.0000	.9342	.2007	-.1549	-.2475	.0092	.0849	.0269	.0166	.2358	.8238	.3766	.3428	-.2452
315.000		.3817	.8404	.0674	.1248	-.1242	-.0979	.0563	.0363	.0201	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0755	-.0801	.0147	-.0495	.1508	.2467
45.000	.1297	-.0583			.4105	.4345
90.000	.1107	.0568	.0000	.0782	.2577	.2843
135.000	.2711	-.0028			.3677	.3148
180.000	.3769	.0190	.3568	-.0713	.1001	.0352
225.000	-.0211	-.1719			-.0691	.0000
270.000	-.1180	-.0782	.0202	-.0953	-.0001	-.0007
315.000	-.1023	-.1219			.0134	.0591

ALPHAL(6) = 3.437 BETAL (2) = .256

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7200	.7290	.7360	.7370
PHI															
.000	1.7398	.3593	.3050	-.0594	.0021	-.0258	-.0784	-.0287	.0162	-.0045	.1261	.3415	.1408	.1105	-.1495
45.000		.2820	.2710	-.1103	-.0819	-.0335	-.0846	-.0521	-.0088	.0017	-.0019				
90.000		.2317	.2304	-.1274	-.1156	-.1316	-.0858	-.0947	.0133	.0120	.1307		.0346	.0149	
135.000		.2040	.1853	-.1528	-.1480	-.0575	-.0887	.0252	.0085	-.0009	.2380				
180.000	1.7398	.1721	.1280	-.1374	-.1076	-.1133	-.0871	.0412	.0010	-.0208	.3125	.5186	.0000	.1092	-.0801
225.000		.1853	.4323	-.0848	-.1387	-.2890	-.0412	.0005	-.0226	-.0238	.3571				
270.000		.0000	.9253	.8272	-.1730	-.2858	-.0001	.0707	.0153	-.0093	.2529	.8401	.3444	.2558	-.2771
315.000		.3588	.8206	.0953	.1111	-.1318	-.1082	.0473	.0272	-.0071	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0892	-.0805	.0780	-.0227	.1853	.2428
45.000	.1121	-.0449			.3148	.3546
90.000	.0943	.0113	.0000	.0206	.2095	.2060
135.000	.2647	-.0365			.3038	.2584
180.000	.2374	-.0250	.2682	-.0620	.0299	.0922

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS44)

ALPHAL(6) = 3.437 BETAL (2) = .256

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0135	-.1681			.0090	.0000
270.000	-.1347	-.0691	.0482	-.0448	.0142	.0117
315.000	-.1045	-.1248			.0549	.1051

ALPHAL(6) = 3.404 BETAL (3) = 3.810

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6160	.2904	.2926	-.0599	-.0272	-.0561	-.0764	-.0107	-.0287	-.0094	.3117	.4133	.1781	.0057	-.1426
45.000		.1846	.1823	-.1463	-.1234	-.0897	-.1043	-.0877	-.0152	-.0274	.1303				
90.000		.1352	.1369	-.1666	-.1586	-.1561	-.0780	-.0344	.0050	-.0180	.1488		-.0123	-.0194	
135.000		.1127	.0988	-.1808	-.1692	-.0814	-.0694	.0198	-.0090	-.0261	.2134				
180.000	1.6160	.0904	.0852	-.1538	-.1183	-.1474	-.0367	.0047	-.0384	-.0022	.2280	.5819	.0000	.0235	-.1401
225.000		.1217	.3849	-.0779	-.1583	-.2256	-.0479	.0028	-.0530	.0301	.2923				
270.000		.0000	.9176	.2708	-.1734	-.2375	.0028	.0586	-.0252	.0010	.2562	.5270	.2588	.2275	-.2362
315.000		.3121	.4080	.0401	.0962	-.1338	-.0925	.0605	-.0025	-.0265	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1268	-.0792	.1543	-.0030	.2114	.2852
45.000	.1219	-.0715			.2750	.2737
90.000	.0606	-.0044	.0000	.0140	.1581	.1620
135.000	.1624	-.0737			.1611	.1733
180.000	.0473	-.0593	.1427	-.0235	.0692	.0999
225.000	-.0169	-.1264			.1179	.0000
270.000	-.1145	-.0952	-.0078	-.0470	-.0071	.0116
315.000	-.0747	-.1209			.1241	.2111

ALPHAL(7) = 6.211 BETAL (1) = .304

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7218	.4133	.3796	-.0090	.0259	.0057	-.0388	-.0153	.0153	-.0083	-.0028	.3921	.2406	.2797	-.1265
45.000		.3009	.2913	-.0998	-.0697	-.0335	-.0556	-.0691	-.0437	-.0374	.0273				
90.000		.2142	.2171	-.1327	-.1253	-.1558	-.1153	-.1288	-.0123	-.0281	.1949		.0015	-.0176	
135.000		.1772	.1347	-.1648	-.1638	-.0765	-.0983	-.0084	-.0048	-.0103	.1810				
180.000	1.7218	.1353	.0759	-.1493	-.1323	-.1320	-.0700	.0320	-.0051	-.0038	3125	.4819	.0000	.0464	-.0615
225.000		.1418	.3447	-.1070	-.2046	-.3092	-.0524	-.0312	-.0113	.0273	.3726				

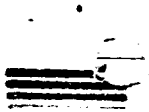
ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS44)

ALPHAL(7) = 8.211 BETAL (1) = .304

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.8904	.2018	-.2055	-.2742	-.0164	.0712	.0198	-.0198	.3270	.5318	.3252	.3195	-.2334
315.000		.4019	.5643	.0780	.1575	-.0761	-.0806	.0593	.0388	.0098	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1889	-.0609	.1551	.0237	.2072	.2743
45.000	.1178	-.0240			.2660	.2901
90.000	.0962	.0418	.0000	.0498	.1885	.1943
135.000	.1998	-.0205			.3144	.2894
180.000	.2390	-.0490	.2245	-.0755	.0286	.0691
225.000	.0110	-.1775			-.0200	.0000
270.000	-.1248	-.0802	.0395	-.0139	.0459	.0445
315.000	.0193	-.1146			.1423	.1974



AR?97-019 (AB) LVAP(ALLFL SEALED) SRM BOOSTER (RETS45) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.200 RN/FT = 2.500
ELV-I? = 8.000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHA(1) = -6.938 BETA(1) = -.020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6965	.7280	.7290	.7360	.7370
PHI															
.000	1.8130	.1376	.0745	-.1615	-.0854	-.1020	-.1320	-.1128	-.0823	-.0572	-.0378	.2583	.0969	.1486	-.1747
45.000		.1770	.1503	-.1321	-.1302	-.0612	-.0647	-.0989	-.1403	-.1508	-.0726				
90.000		.2164	.2244	-.0974	-.0964	-.1272	-.1002	-.0929	-.1748	-.2171	-.0833		-.0127	-.0144	
135.000		.3108	.3032	-.0655	-.0572	-.0157	-.0339	.0115	-.0529	-.0739	-.0351				
180.000	1.8130	.4360	.3526	-.0224	.0241	.0234	.0530	.1299	.0652	-.0328	.0555	.3373	.0000	.3029	-.1864
225.000		.4261	.4585	.1333	.1403	-.0499	.1587	.1561	.0599	-.0191	.2067				
270.000		.0000	.9752	.2919	.1572	-.2364	-.1078	-.0475	-.0903	-.0518	.2254	.7374	.3409	.3881	-.2380
315.000		.1479	.3175	-.0526	-.1691	-.2650	-.1655	-.1271	-.0228	-.0171	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0829	-.1175	.0714	-.0801	.1161	.0637
45.000	-.0274	-.1529			-.0479	-.0466
90.000	-.1514	-.1172	.0000	-.0983	-.0350	-.0025
135.000	.0347	-.1880			-.0271	.0627
180.000	.1194	-.1774	.0031	-.1112	.1568	.3065
225.000	-.0301	-.1824			.1711	.0000
270.000	-.1228	-.1065	-.0138	-.0791	-.0360	-.0265
315.000	-.0543	-.1271			.0240	.0396

ALPHA(2) = -4.765 BETA(1) = [illegible]

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9515	.2453	.1513	-.1268	-.0402	-.0478	-.1141	-.0810	-.0913	-.0570	.0548	.1185	-.0090	.0605	-.1401
45.000		.2896	.2499	-.0912	-.0845	-.0329	-.0259	-.0558	-.1009	-.1368	-.0267				
90.000		.3336	.3276	-.0552	-.0408	-.0643	-.0366	-.0399	-.0823	-.1422	-.0577		.0555	.0782	
135.000		.3917	.3709	-.0329	-.0249	.0049	.0042	.0907	.0464	.0144	.0701				
180.000	1.9515	.4382	.3345	-.0418	.0287	.0344	-.0359	.2021	.0815	.0334	.0978	.5906	.0000	.2227	-.1281
225.000		.4128	.4922	.1264	.1245	-.0879	-.0276	.2118	.0718	.0224	.1382				
270.000		.0000	1.0405	.2844	.0781	-.2104	-.1436	-.0329	-.1001	-.0120	.2227	1.0042	.7885	.9913	-.2212
315.000		.2396	.3709	-.0041	-.0862	-.2394	-.1290	-.0959	-.0647	-.0060	.0000				

ARC97-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS45)

ALPHAL(2) = -4.765 BETAL (1) = -4.262

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9563
PHI						
.000	-.0213	-.1140	-.0357	-.1333	.0261	-.0021
45.000	.0381	-.1233			.0049	.0397
90.000	-.0998	-.0938	.0000	-.1307	.0454	.1361
135.000	.1085	-.1044			.1284	.1554
180.000	.2886	-.1068	.1766	-.0539	.1131	.3103
225.000	.0319	-.2219			.0806	.0000
270.000	-.1383	-.1340	-.0473	-.0825	-.0297	-.0273
315.000	-.0444	-.1422			.0132	-.0086

ALPHAL(2) = -4.798 BETAL (2) = -.054

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.8985	.7280	.7290	.7360	.7370
PHI															
.000	1.8295	.1694	.1076	-.1437	-.0843	-.0860	-.1320	-.0792	-.0473	-.0302	.1114	.1984	.0359	.1150	-.1412
45.000		.2001	.1781	-.1240	-.1179	-.0455	-.0510	-.0842	-.0875	-.0827	-.0292				
90.000		.2309	.2359	-.0946	-.0900	-.1049	-.0543	-.0593	-.1307	-.1564	-.0540		.0109	.0149	
135.000		.2913	.2813	-.0754	-.0707	-.0199	-.0417	.0291	-.0215	-.0570	-.0232				
180.000	1.8295	.3729	.2903	-.0634	-.0010	-.0040	-.0546	.1334	.0404	-.0312	.0595	.3642	.0000	.3245	-.1873
225.000		.3725	.3383	.1072	.1049	-.0989	.0706	.1420	.0378	-.0242	.2684				
270.000		.0000	1.0015	.3197	.0750	-.2278	-.1486	-.0553	-.0901	-.0436	.2192	.7932	.4393	.5053	-.2366
315.000		.1868	.3632	-.0183	-.1142	-.2583	-.1287	-.1363	-.0332	-.0145	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0253	-.1164	-.0448	-.0965	.0633	.0888
45.000	.0026	-.1150			.0152	.0109
90.000	-.0685	-.1041	.0000	-.0866	.0513	.0947
135.000	.0953	-.1572			.0122	.0769
180.000	.1490	-.1681	.0321	-.1082	.0739	.2545
225.000	-.0215	-.1820			.1948	.0000
270.000	-.1326	-.1064	-.0263	-.0727	-.0392	-.0238
315.000	-.0583	-.1343			.0066	.0070

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS45)

ALPHAL(2) = -4.754 BETAL (3) = 3.556

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7108	.1137	.0793	-.1536	-.1283	-.1177	-.1415	-.0626	-.0188	-.0258	.1000	.2481	.1133	.2087	-.1492
45.000		.1297	.1097	-.1519	-.1389	-.0697	-.0709	-.0775	-.0314	-.0259	-.0542				
90.000		.1494	.1474	-.1289	-.1267	-.1323	-.0706	-.0706	-.1134	-.0863	.0271		-.0351	-.0138	
135.000		.2034	.1927	-.1105	-.0995	-.0634	-.0805	-.0666	-.1000	-.1281	-.0612				
180.000	1.7108	.3135	.2685	-.0469	-.0231	-.0300	.0999	.0306	-.0198	-.0997	.0518	.3838	.0000	.1013	-.2083
225.000		.3395	.3825	.0908	.0302	-.0959	.0900	.0784	-.0177	-.0422	.2023				
270.000		.0000	.9791	.3534	.0749	-.2349	-.1114	-.0706	-.0502	-.0642	.1040	.7222	.3795	.4373	-.2383
315.000		.1517	.3328	-.0197	-.1167	-.2560	-.1286	-.1429	-.0228	-.0251	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0788	-.1071	.0384	-.0980	.0618	.0908
45.000	.0710	-.1160			.1204	.1044
90.000	-.0158	-.0852	.0000	-.0522	.0191	.0354
135.000	-.0119	-.1200			-.0011	.0294
180.000	.0004	-.1787	.0152	-.0641	.1522	.1391
225.000	-.0397	-.1552			.0759	.0000
270.000	-.1250	-.1240	-.0349	-.0824	-.0572	-.0328
315.000	-.0660	-.1582			.0029	.0726

ALPHAL(3) = -2.553 BETAL (1) = -.061

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8339	.2110	.1419	-.1355	-.0437	-.0660	-.1237	-.0467	-.0152	-.0111	.1374	.1772	.0422	.1374	-.1033
45.000		.2216	.2033	-.1108	-.1041	-.0491	-.0407	-.0679	-.0268	-.0148	-.0124				
90.000		.2397	.2397	-.0938	-.0859	-.0749	-.0188	-.0381	-.0689	-.0699	.0404		.0443	.0528	
135.000		.2670	.2567	-.0842	-.0802	-.0484	-.0391	.0472	-.0021	-.0368	-.0071				
180.000	1.8339	.3154	.2373	-.0875	-.0263	-.0275	-.0795	.1171	.0371	-.0214	.0902	.3847	.0000	.3662	-.1725
225.000		.3244	.3628	.0830	.0604	-.1508	-.0467	.1380	.0287	-.0382	.3359				
270.000		.0000	1.0111	.3367	.0057	-.2229	-.0752	-.0696	-.0940	-.0485	.2093	.8310	.5298	.6194	-.2328
315.000		.2280	.3884	.0239	-.0457	-.2139	-.0938	-.0553	-.0838	-.0214	.0000				

X/LS	.8102	.0661	.9120	.9130	.9344	.9565
PHI						
.000	.0209	-.1424	-.0400	-.1191	.0809	.1015
45.000	.0943	-.0976			.0849	.1300
90.000	-.0339	-.0747	.0000	-.0789	.1393	.1955
135.000	.1760	-.1165			.0869	.1078
180.000	.1879	-.1537	.0726	-.0965	.0410	.2005

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS45)

ALPHAL(3) = -2.553 BETAL (1) = -.061

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0003	-.1826			.1430	.0000
270.000	-.1351	-.0999	-.0214	-.0706	-.0390	-.0300
315.000	-.0697	-.1232			-.0334	-.0012

ALPHAL(4) = -.318 BETAL (1) = -6.294

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	2.0173	.3707	.2587	-.0881	-.0210	.0181	-.0737	-.0257	.0018	-.0112	.1731	.2707	.0483	.0497	-.0857
45.000		.3912	.3584	.0471	-.0352	.0121	.0231	-.0081	-.0060	.0038	-.0140				
90.000		.4011	.3941	- 0301	-.0140	-.0038	.0483	.0217	.0231	.0138	.0899		.1123	.1387	
135.000		.3951	.3804	-.0429	-.0358	.0108	.0211	-.0181	.0792	.0512	.1088				
180.000	2.0173	.3747	.2594	-.0819	-.0485	.0105	-.0724	.1391	.0923	.0502	.1894	.8078	.0000	.2437	-.0713
225.000		.3600	.4256	.0010	.0512	-.1534	-.0161	.1198	.0826	.0355	.3883				
270.000		.0000	1.0308	.2730	-.0286	-.1945	-.0038	-.0054	-.0950	-.0413	.2869	.9837	.9389	1.2602	-.2117
315.000		.3564	.4360	.0803	.0618	-.1533	-.0704	.0287	-.0428	-.0186	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0557	-.1255	-.1237	-.1284	.0184	.0797
45.000	.0987	-.0848			.2759	.3978
90.000	.0307	-.0219	.0000	.0284	.2676	.3409
135.000	.2177	.0076			.2789	.2782
180.000	.3714	.0109	.3316	-.0170	.1894	.1269
225.000	.1054	-.1901			-.0618	.0000
270.000	-.1335	-.1113	-.0204	-.0853	-.0419	-.0405
315.000	-.0586	-.1232			-.0787	-.0084

ALPHAL(4) = -.325 BETAL (2) = -4.240

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9666	.3338	.2317	-.0987	-.0501	-.0031	-.0845	-.0218	-.0051	.0008	.1621	.2487	.0357	.0180	-.0973
45.000		.3388	.3095	-.0681	-.0554	-.0087	-.0041	-.0200	-.0077	.0035	-.0035				
90.000		.3461	.3381	-.0495	-.0372	-.0279	.0234	.0032	.0029	-.0022	.0976		.0920	.1084	
135.000		.3418	.3089	-.0601	-.0544	-.0091	-.0031	-.0233	.0646	.0265	.0602				
180.000	1.9666	.3378	.2343	-.0942	-.0567	-.0097	-.0839	.1496	.0806	.0352	.1364	.5361	.0000	.2261	-.0823
225.000		.3355	.4014	.0754	.0356	-.1690	-.0325	.1019	.0562	.0095	.2853				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS45)

ALPHAL(4) = -.325 BETAL (2) = -4.240

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	1.0116	.2939	-.0389	-.2031	-.0209	-.0342	-.1044	-.0666	.2836	.9353	.8736	1.1551	-.2187
315.000		.3285	.4060	.0747	.0409	-.1699	-.0779	.0049	-.0463	-.0222	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0457	-.1244	-.1203	-.1256	.0185	.0896
45.000	.0854	-.1626			.2638	.3830
90.000	.0184	-.0310	.0000	.0294	.2218	.2833
135.000	.1739	-.0436			.2532	.2602
180.000	.3495	-.0164	.2708	-.0339	.1585	.1020
225.000	.0814	-.2093			.0102	.0000
270.000	-.1427	-.1095	-.0411	-.0630	-.0113	-.0095
315.000	-.0638	-.1248			-.0597	-.0079

ALPHAL(4) = -.329 BETAL (3) = -2.136

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9141	.2939	.2037	-.1109	-.0503	-.0261	-.0937	-.0298	-.0007	.0058	.1484	.1955	.0730	.0544	-.1103
45.000		.2902	.2646	-.0815	-.0774	-.0308	-.0172	-.0334	-.0014	.0089	.0222				
90.000		.2942	.2809	-.0773	-.0628	-.0486	.0098	-.0172	-.0172	-.0138	.0980		.0777	.0940	
135.000		.2935	.2623	-.0830	-.0770	-.0311	-.0192	.0357	.0426	.0089	.0539				
180.000	1.9141	.3019	.2033	-.1041	-.0583	-.0341	-.0946	.1409	.0496	.0058	.1037	.5134	.0000	.2507	-.0967
225.000		.3059	.3777	.0694	.0254	-.1792	-.0556	.0985	.0389	-.0115	.2826				
270.000		.0000	1.0090	.3170	-.0153	-.2092	-.0440	-.0480	-.1043	-.0676	.2559	.9455	.7897	.9063	-.2251
315.000		.2982	.3791	.0710	.0370	-.1800	-.1059	-.0047	-.0249	-.0372	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0391	-.1097	-.0443	-.1028	.0298	.0936
45.000	.0886	-.0615			.2029	.2988
90.000	.0078	-.0284	.0000	.0162	.1934	.2519
135.000	.1507	-.0506			.2330	.2364
180.000	.3070	-.0532	.2092	-.0459	.1250	.0691
225.000	.0529	-.2105			.1088	.0000
270.000	-.1358	-.1005	-.0320	-.0472	-.0056	-.0093
315.000	-.0767	-.1236			-.0248	-.0013

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RET545)

ALPHAL(4) = -.324 BETAL (4) = -.049

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8447	.2559	.1808	-.1202	-.0443	-.0427	-.1017	-.0262	-.0034	.0004	.1405	.3008	.0822	.1337	-.1034
45.000		.2412	.2296	-.1028	-.0937	-.0503	-.0358	-.0431	.0079	.0124	.1142				
90.000		.2426	.2396	-.0945	-.0854	-.0672	-.0060	-.0315	-.0189	-.0087	.0875		.0608	.0785	
135.000		.2462	.2276	-.0977	-.0944	-.0520	-.0355	.0509	.0107	-.0143	.0961				
180.000	1.8447	.2625	.1836	-.1119	-.0503	-.0510	-.1064	.0850	.0304	-.0160	.1195	.4103	.0000	.3615	-.1307
225.000		.2802	.3561	.0594	.0110	-.1895	-.0567	.0890	.0207	-.0487	.2974				
270.000		.0000	1.0021	.3350	-.0407	-.2189	-.0461	-.0603	-.1048	-.0744	.2583	.8748	.6098	.6454	-.2222
315.000		.2735	.3595	.0610	.0216	-.1888	-.0934	-.0163	-.0187	-.0424	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0296	-.0922	-.0254	-.0700	.0506	.0757
45.000	.0758	-.0826			.1250	.1715
90.000	.0036	-.0568	.0000	-.0373	.2033	.2647
135.000	.2370	-.0750			.2013	.1932
180.000	.2482	-.1256	.1441	-.0763	.0628	.0992
225.000	.0317	-.2095			.1600	.0000
270.000	-.1263	-.1120	.0093	-.0704	-.0314	-.0281
315.000	-.0793	-.1239			-.0479	-.0134

ALPHAL(4) = -.320 BETAL (5) = 2.074

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7823	.2299	.1667	-.1222	-.0418	-.0572	-.1094	-.0317	-.0029	-.0098	.1490	.2803	.0605	.1809	-.1221
45.000		.2053	.1960	-.1155	-.1051	-.0681	-.0568	-.0505	.0105	.0084	.0947				
90.000		.2029	.2008	-.1112	-.1011	-.0800	-.0178	-.0387	-.0178	-.0019	.0837		.0349	.0632	
135.000		.2049	.1966	-.1091	-.1054	-.0678	-.0525	.0483	-.0052	-.0342	.1636				
180.000	1.7823	.2312	.1727	-.1157	-.0555	-.0648	-.1031	.0513	.0001	-.0452	.1397	.8055	.0000	.2398	-.1613
225.000		.2538	.3203	.0562	.0079	-.1904	-.0333	.0787	.0008	-.0748	.2915				
270.000		.0000	1.0124	.3586	-.0393	-.2201	-.0376	-.0680	-.0995	-.0672	.1260	.8669	.5091	.5713	-.2318
315.000		.2568	.3489	.0618	.0215	-.1890	-.0823	-.0178	-.0162	-.0399	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0505	-.0878	-.0043	-.0715	.0632	.1068
45.000	.0668	-.0785			.1161	.1267
90.000	-.0090	-.0746	.0000	-.0453	.2170	.2689
135.000	.2462	-.0977			.1399	.1425
180.000	.1536	-.1371	.1227	-.0920	.0271	.1175

ARC87-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS45)

ALPHAL(4) = -.320 BETAL (5) = 2.074

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
225.000	.0183	-.1811			.1644	.0000
270.000	-.1262	-.1129	-.0083	-.0731	-.0437	-.0271
315.000	-.0733	-.1328			-.0251	.0106

ALPHAL(4) = -.320 BETAL (6) = 3.533

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7247	.2042	.1514	-.1286	-.0671	-.0776	-.1182	-.0343	-.0086	-.0166	.1344	.2586	.0709	.1679	-.1298
45.000		.1634	.1537	-.1329	-.1225	-.0911	-.0782	-.0538	.0201	.0004	.0599				
90.000		.1590	.1544	-.1283	-.1185	-.0938	-.0274	-.0241	-.0089	- 0013	.0855		.0363	.0606	
135.000		.1614	.1577	-.1255	-.1189	-.0892	-.0720	.0175	-.0305	-.0412	.1471				
180.000	1.7247	.1966	.1527	-.1265	-.0697	-.0806	-.0931	.0254	-.0299	-.0748	.1504	.5795	.0000	.1453	-.1790
225.000		.2331	.3078	.0455	.0023	-.1915	.0528	.0449	-.0302	-.0844	.1950				
270.000		.2000	1.0061	.0650	-.0519	-.2225	-.0330	-.0984	-.0641	-.0681	.0779	.7923	.4012	.4818	-.2405
315.000		.2408	.3610	.0544	.0178	-.1378	-.0746	-.0152	-.0229	-.0402	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0689	-.0946	.0280	-.0393	.0663	.1069
45.000	.0636	-.0833			.1690	.1653
90.000	.0227	-.0585	.0000	-.0426	.1227	.2251
135.000	.1638	-.1187			.0762	.1039
180.000	.0954	-.1098	.0937	-.0591	.1135	.1242
225.000	-.0136	-.1600			.1175	.0000
270.000	-.1207	-.1094	-.0205	-.0710	-.0452	-.0220
315.000	-.0708	-.1355			.0129	.0640

ALPHAL(4) = -.320 BETAL (7) = 6.166

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6562	.1758	.1412	-.1294	-.0532	-.0938	-.1248	-.0417	-.0212	-.0255	.1061	.3007	.1097	.1516	-.1386
45.000		.1259	.1212	-.1474	-.1342	-.0942	-.0982	-.0493	.0158	-.0078	.0824				
90.000		.1189	.1166	-.1401	-.1335	-.1070	-.0351	-.0222	-.0030	-.0065	.0878		.0218	.0877	
135.000		.1249	.1218	-.1411	-.1302	-.0925	-.0870	-.0116	-.0501	-.0508	.1161				
180.000	1.6562	.1834	.1389	-.1272	-.0571	-.0905	.0e+0	-.0166	-.0621	-.0861	.1421	.5878	.0000	.0[illegible]8	-.1978
225.000		.2305	.3609	.0443	-.0016	-.1844	.0250	.0191	-.0538	-.0631	.1374				

ARC97-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS45)

ALPHAL(4) = -.320 BETAL (7) = 8.186

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.8922	.3471	-.0651	-.2227	-.0453	-.1134	-.0648	-.0891	.0868	.8215	.5313	.7724	-.2327
315.000		.2226	.3992	.0480	.0090	-.1867	-.0734	-.0077	-.0358	-.0465	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0884	-.1032	.0502	-.0570	.1249	.2039
45.000	.0731	-.0801			.1401	.1477
90.000	.0558	-.0553	.0000	-.0783	.1685	.1619
135.000	.1003	-.1005			.0512	.0828
180.000	.0699	-.1032	.0700	-.0252	.0515	.0614
225.000	-.0321	-.1491			.0607	.0000
270.000	-.1207	-.1131	-.0424	-.0719	-.0494	-.0275
315.000	-.0748	-.1382			.0250	.1091

ALPHAL(5) = 1.813 BETAL (1) = .020

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8347	.3086	.2287	-.0979	-.0263	-.0197	-.0793	-.0617	.0094	.0016	.1190	.3446	.0883	.1405	-.1145
45.000		.2304	.2527	-.0916	-.0825	-.0484	-.0399	-.0415	.0008	.0209	.1147				
90.000		.2410	.2374	-.0962	-.0871	-.0792	-.0240	-.0455	-.0035	.0173	.0827		.0537	.0747	
135.000		.2251	.1978	-.1100	-.1057	-.0580	-.0409	.0280	.0139	.0019	.1123				
180.000	1.8347	.2171	.1375	-.1324	-.0494	-.0729	-.1200	.0799	.0293	-.0154	.2041	.4690	.0000	.2855	-.0879
225.000		.2380	.3053	.0289	-.0342	-.2145	-.0571	.0392	.0103	-.0264	.3218				
270.000		.0000	.9697	.3177	-.0689	-.2115	-.0544	.0336	-.0098	-.0388	.2745	.7268	.5815	.6157	-.2122
315.000		.3206	.3556	.0858	.0852	-.1541	-.1250	.0204	.0173	-.0151	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0587	-.0923	.0483	-.0528	.1521	.1885
45.000	.0880	-.0238			.1820	.1567
90.000	.0185	-.0193	.0000	-.0009	.2148	.2751
135.000	.2193	-.0188			.2845	.2419
180.000	.2959	-.0845	.2098	-.0551	.1019	.0453
225.000	.0082	-.2098			.1025	.0000
270.000	-.1147	-.1055	.0258	-.0581	.0004	-.0150
315.000	-.0791	-.1151			-.0155	.0358

ARC97-019 IA81 LVAP(ALUM. SEALED) SRM BOOSTER (RETS45)

ALPHAL(6) = 3.403 BETAL (1) = -4.182

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.9517	.4293	.3289	-.0582	.0087	.0435	-.0298	-.0493	.0387	.0233	.1709	.7430	.1361	.1401	-.1067
45.000		.3755	.3542	-.0468	-.0300	.0180	.0007	-.0046	.0023	.0289	.0323				
90.000		.3259	.3199	-.0562	-.0445	-.0664	-.0397	-.0403	-.0063	.0279	.1632		.0825	.0602	
135.000		.2853	.2450	-.0879	-.0863	-.0419	-.0284	-.0685	.0293	.0089	.1792				
180.000	1.9517	.2460	.1544	-.1306	-.0551	-.0502	-.1075	.0668	.0376	.0443	.2958	.4917	.0000	.0365	-.0445
225.000		.2513	.2946	.0131	-.0614	-.2412	-.0689	-.0215	.0092	.0360	.3261				
270.000		.0000	.9762	.2630	-.0853	-.1932	-.0519	.1059	.0543	.0223	.2630	.7699	.4239	.4493	-.2092
315.000		.4131	.4810	.1322	.1653	-.0913	-.1247	.0377	.0380	.0266	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0985	-.0651	.0095	-.0438	.1256	.2138
45.000	.1241	-.0280			.3775	.4407
90.000	.1105	.0595	.0000	.0918	.2340	.2737
135.000	.2804	.0275			.4111	.3639
180.000	.3101	.0268	.4035	-.0170	.1679	.1034
225.000	.0169	-.1527			-.0686	.0000
270.000	-.1146	-.0790	-.0051	-.0603	-.0219	-.0252
315.000	-.0862	-.1130			.0128	.0554

ALPHAL(6) = 3.371 BETAL (2) = .058

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8271	.3645	.2828	-.0436	-.0001	.0058	-.0563	-.0493	.0250	-.0027	.0516	.3313	.1512	.1496	-.1346
45.000		.2814	.2761	-.0776	-.0705	-.0490	-.0374	-.0397	-.0156	.0063	-.0067				
90.000		.2309	.2328	-.0962	-.0893	-.1035	-.0556	-.0681	-.0011	.0153	.1299		.0474	.0294	
135.000		.2056	.1751	-.1167	-.1191	-.0517	-.0454	-.0130	.0109	.0043	.1979				
180.000	1.8271	.1804	.1036	-.1438	-.0771	-.0890	-.1121	.0587	.0216	-.0101	.2762	.5309	.0000	.1635	-.0777
225.000		.2033	.2618	-.0051	-.0000	-.2538	-.0824	.0082	.0019	-.0097	.3372				
270.000		.0000	.9414	.2899	-.1019	-.0073	-.0913	.0907	.0393	-.0027	.2619	.6857	.3655	.3196	-.2441
315.000		.3682	.4347	.1122	.1469	-.1048	-.1032	.0362	.0439	-.0027	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1013	-.0704	.0759	-.0239	.1396	.2216
45.000	.0977	-.0148			.2427	.2949
90.000	.0863	.0156	.0000	.0372	.1882	.1895
135.000	.2691	-.0238			.3058	.2822
180.000	.2440	-.0098	.2899	-.0566	.0891	.0341

ARC97-018 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RET545)

ALPHAL(6) = 3.371 BETAL (2) = .058

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0255	-.1514			-.0011	.0000
270.000	-.1243	.0866	.0022	-.0450	-.0021	-.0026
315.000	-.0899	-.1130			.0495	.0951

ALPHAL(6) = 3.337 BETAL (3) = 3.606

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7126	.3130	.2638	-.0592	-.0241	-.0277	-.0727	-.0409	-.0142	-.0397	.0169	.3053	.1602	.1779	-.1319
45.000		.2002	.1952	-.1144	-.1038	-.0651	-.0836	-.0912	-.0287	-.0164	.0939				
90.000		.1503	.1477	-.1294	-.1276	-.1335	-.0670	-.0717	-.0016	-.0057	.1246		.0062	.0241	
135.000		.1311	.1071	-.1474	-.1391	-.0641	-.0637	.0262	-.0104	-.0211	.1776				
180.000	1.7126	.1191	.0822	-.1461	-.1259	-.1203	-.0637	.0159	-.0247	-.0594	.1912	.5767	.0000	.0651	-.1283
225.000		.1613	.3240	-.0148	-.1074	-.2571	-.0366	-.0023	-.0284	-.0357	.2712				
270.000		.0000	.9384	.3180	-.1018	-.2198	-.0204	.0724	.0063	-.0477	.2292	.6172	.3213	.2963	-.2474
315.000		.3386	.4058	.0870	.1276	-.1060	-.0931	.0605	.0156	-.0291	.0000				

X/LS	9102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1143	-.0753	.0962	-.0112	.1772	.2625
45.000	.0790	-.0502			.2311	.2367
90.000	.0275	-.0065	.0000	.0129	.1458	.1603
135.000	.1636	-.0740			.1719	.1665
180.000	.1762	-.0482	.1508	-.0855	.0126	.0774
225.000	-.0072	-.1236			.1263	.0000
270.000	-.1104	-.0948	.0172	-.0479	-.0158	.0058
315.000	-.0859	-.1143			.0711	.1648

ALPHAL(7) = 6.118 BETAL (1) = .080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8044	.4202	.3433	-.0382	.0184	.0306	-.0265	-.0278	.0338	.0018	-.0071	.3612	.2009	.2674	-.1240
45.000		.3041	.2954	-.0694	-.0586	-.0140	-.0262	-.0473	-.0345	-.0257	-.0360				
90.000		.2164	.2250	-.0973	-.0969	-.1257	-.0969	-.1005	-.0288	-.0194	.1229		.0150	-.0080	
135.000		.1795	.1492	-.1217	-.1306	-.0669	-.0596	-.0721	-.0024	-.0057	.1639				
180.000	1.8044	.1449	.0685	-.1574	-.0883	-.1042	-.0916	.0293	.0186	-.0024	.2755	.4650	.0000	.0549	-.0575
225.000		.1605	.2409	-.0798	-.1468	-.2654	-.0790	-.0208	.0043	-.0074	.3329				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS45)

ALPHAL(7) = 6.118 BETAL (1) = .080

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.9214	.2698	-.1348	-.2112	-.1220	.0739	.0543	-.0091	.3119	.5068	.3298	.3578	-.2148
315.000		.4143	.5251	.1240	.1826	-.0572	-.0721	.0075	.0639	.0116	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1913	-.0876	.1252	-.0087	.2168	.2872
45.000	.0968	.0033			.1907	.2211
90.000	.0951	.0506	.0000	.0554	.1956	.2131
135.000	.1712	.0016			.2918	.3098
180.000	.2536	-.0175	.2138	-.0332	.0802	.0324
225.000	.0400	-.1636			-.0322	.0000
270.000	-.1017	-.0865	.0005	-.0239	.0369	.0471
315.000	.0493	-.1037			.1275	.2078

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS48) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = .297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = 10.000 ELV-OB = -4.000
RUDDER = .000 SPDBRK = .000

ALPHAL(1) = -6.914 BETAL (1) = .622

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5181	.0814	.1619	-.2964	-.2502	-.2262	-.1841	-.0607	-.0795	-.0698	.2031	.3054	.0729	.0533	-.2546
45.000		.1393	.1165	-.2977	-.2265	-.1563	-.1586	-.1427	-.1300	-.1823	.0496				
90.000		.1844	.2112	-.2671	-.2191	-.2175	-.1560	-.2671	-.2461	-.2067	.0310		-.0852	-.0490	
135.000		.2785	.3594	-.2061	-.1511	-.1110	-.0318	-.0979	-.1689	-.2025	-.1122				
180.000	1.5181	.3675	.5129	-.1547	-.0896	-.0575	.1603	-.0195	-.0812	-.1213	.1131	.5934	.0000	.0028	-.3543
225.000		.3214	.6689	-.1203	-.0481	-.0919	.2113	.0165	-.0150	-.1167	.3295				
270.000		.0000	.7440	-.0388	.0266	-.4619	-.1822	-.0817	-.0688	-.0665	.3256	.7746	.3783	.5785	-.3396
315.000		.0423	.2234	-.3193	-.4095	-.3974	-.2545	-.1109	-.0362	-.0401	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0126	-.1901	.0474	-.1207	.2544	.1335
45.000	.0035	-.1759			.0413	-.0042
90.000	-.1690	-.1134	.0000	.0150	.0780	.1169
135.000	.0703	-.2115			.1794	.3846
180.000	.0476	-.2442	.0870	.0403	.3908	.3771
225.000	-.1373	-.2186			.0672	.0000
270.000	-.1694	-.1603	-.0266	-.1272	-.0931	-.0737
315.000	-.1292	-.2054			.0221	.0119

ALPHAL(2) = -4.818 BETAL (1) = -3.740

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5782	.1895	.2505	-.2348	-.2128	-.1815	-.1812	-.0918	-.0840	-.0820	.1288	.2148	-.0591	.0878	-.2032
45.000		.2337	.2059	-.2587	-.1889	-.1187	-.1539	-.1353	-.1231	-.1125	.0703				
90.000		.2896	.2992	-.2290	-.1597	-.1453	-.1128	-.1587	-.2384	-.1818	.0224		-.0246	.0210	
135.000		.3484	.3982	-.1741	-.1203	-.0529	.0958	.0316	-.0870	-.0947	-.0148				
180.000	1.5782	.3637	.5014	-.1616	-.1036	-.0872	.2497	.0682	-.0067	-.0323	.2292	.4832	.0000	.2635	-.2940
225.000		.2985	.6330	-.1395	-.0776	-.2315	.2807	.0328	.0218	-.0452	.4291				
270.000		.0000	.7761	-.0298	-.1280	-.3707	-.1732	-.2252	-.0177	-.0520	.3767	.9703	.6361	.6572	-.4436
315.000		.1270	.3167	-.2723	-.3168	-.3440	-.1713	-.1638	-.0109	-.0335	.0000				

ARC87-019 1A81 LVAP(ALCHL SEALED) SRM BOOSTER (RETS48)

ALPHAL(2) = -4.818 BETAL (1) = -3.740

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0246	-.1420	.0205	-.0901	.0199	-.0158
45.000	.0552	-.1690			.1070	.1548
90.000	-.1861	-.1989	.0000	-.0322	.1808	.2310
135.000	.2296	-.2480			.2166	.3917
180.000	.2184	-.2075	.0739	.1705	.4324	.4521
225.000	-.0778	-.1510			.2009	.0000
270.000	-.1632	-.0977	-.0161	-.0817	-.0547	-.0349
315.000	-.1122	-.1119			-.0074	-.0318

ALPHAL(2) = -4.752 BETAL (2) = .534

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5264	.1196	.2163	-.1628	-.2303	-.2102	-.1773	-.0295	-.0454	-.0556	.1935	.3121	.0489	.0691	-.2031
45.000		.1635	.1511	-.2764	-.2121	-.1246	-.1361	-.0837	-.0496	-.0830	.1244				
90.000		.2023	.2103	-.2658	-.2044	-.1683	-.1090	-.1897	-.1498	-.1451	.1035		-.0671	-.0054	
135.000		.2602	.3050	-.2118	-.1556	-.1039	-.0007	-.0568	-.1445	-.1316	.0194				
180.000	1.5264	.3161	.4607	-.1741	-.1160	-.0991	.1502	-.0113	-.0627	-.1200	.1519	.7236	.0000	-.0398	-.3312
225.000		.2760	.6279	-.1403	-.0959	-.1664	.2052	-.0176	-.0334	-.1142	.3400				
270.000		.0000	.7871	-.0118	-.0873	-.3213	-.2033	-.1118	-.0704	-.0575	.3384	.8681	.4011	.5557	-.3373
315.000		.0804	.3.10	-.2795	-.3368	-.3225	-.1853	-.1307	-.0382	-.0302	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0110	-.2028	.1604	-.1345	.1703	.0794
45.000	.0335	-.1460			.0995	.0758
90.000	-.0652	-.1173	.0000	.0445	.1633	.1995
135.000	.1410	-.2297			.1953	.3436
180.000	.1389	-.2186	.0768	.1142	.3208	.3084
225.000	-.1030	-.2319			.0858	.0000
270.000	-.1613	-.1498	-.0287	-.1147	-.0817	-.0615
315.000	-.1297	-.1988			-.0165	.0203

ARC. 019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS48)

ALPHAL(2) = -4.647 BETAL (3) = 4.117

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4693	.0812	.2140	-.2715	-.2519	-.2292	-.0988	-.0143	-.0258	.0255	.2874	.4701	-.0455	.0208	-.2239
45.000		.0963	.0905	-.2934	-.2296	-.1423	-.1004	.0017	-.0396	.0028	.2473				
90.000		.1175	.1275	-.2947	-.2468	-.1819	-.1058	-.1471	-.1055	-.0375	.1977		-.1562	-.1430	
135.000		.1688	.2411	-.2475	-.2046	-.1692	-.0687	-.1295	-.1724	-.1340	.2194				
180.000	1.4693	.2512	.4181	-.1864	-.1428	-.0915	.0270	-.0584	-.1172	-.1191	.1909	.6810	.0000	-.1073	-.3150
225.000		.2420	.6156	-.1442	-.1145	-.0707	.0945	-.0408	-.0838	-.0536	.3018				
270.000		.0000	.8218	.0351	-.1174	-.2698	-.2331	-.0690	-.0549	-.0342	.3307	.6804	.4000	.5590	-.3591
315.000		.0596	.3171	-.2823	-.3545	-.3397	-.1580	-.0552	-.0342	.0061	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0479	-.2007	.0623	-.1369	.3098	.3505
45.000	.1838	-.2157			.1402	.1057
90.000	-.0081	-.0651	.0000	.0313	.0942	.0508
135.000	.0366	-.1492			.2073	.2941
180.000	.0667	-.2298	.2105	.0687	.2958	.2332
225.000	-.1578	-.1552			.0568	.0000
270.000	-.1712	-.1332	-.0237	-.0854	-.0573	-.0539
315.000	-.1335	-.1872			.0731	.1126

ALPHAL(3) = -2.462 BETAL (1) = .515

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5338	.1503	.2895	-.2465	-.2080	-.1985	-.1519	-.0033	-.0287	-.0318	.2352	.3922	.0164	.1074	-.1655
45.000		.1854	.1911	-.2644	-.1950	-.1002	-.1229	-.0098	-.0118	-.0588	.2075				
90.000		.2161	.2111	-.2622	-.2023	-.1183	-.0653	-.1076	-.0548	-.0789	.1403		-.0428	.0358	
135.000		.2392	.2683	-.2112	-.1629	-.0996	.0242	-.0376	-.0949	-.0776	.2422				
180.000	1.5338	.2592	.4063	-.1921	-.1463	-.1384	.1154	-.0297	-.0645	-.0933	.2434	.7928	.0000	-.0204	-.3099
225.000		.2294	.5648	-.1667	-.1428	-.1991	.1719	-.0316	-.0292	-.0930	.3595				
270.000		.0000	.8269	.0188	-.2281	-.3098	-.2368	-.1318	-.0767	-.0520	.3345	.8740	.3998	.5326	-.3230
315.000		.1316	.4054	-.2443	-.2665	-.3059	-.1461	-.1290	-.0517	-.0270	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0082	-.2249	.0665	-.0754	.1329	.1547
45.000	.0834	-.1396			.2234	.2627
90.000	-.0249	-.1368	.0000	.0735	.2516	.2941
135.000	.2069	-.2179			.1991	.2677
180.000	.1911	-.2271	.0884	.1224	.2988	.3142

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS48)

ALPHAL(3) = -2.462 BETAL (1) = .515

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0926	-.2395			.1351	.0000
270.000	-.1565	-.1365	-.0124	-.1002	-.0658	-.0457
315.000	-.1320	-.1740			-.0363	.0134

ALPHAL(4) = -.271 BETAL (1) = -5.783

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6009	.2970	.3850	-.1989	-.1491	-.1416	-.1184	-.0464	-.0111	-.0203	.2481	.3497	.0178	.1049	-.1173
45.000		.3469	.3363	-.2018	-.1349	-.0539	-.0824	-.0436	.0176	-.0305	.2450				
90.000		.3664	.3495	-.2043	-.1330	-.0590	-.0338	.0050	-.0061	-.0098	.1993		.0839	.1277	
135.000		.3507	.3388	-.1955	-.1299	-.0552	-.0777	.0876	.0326	.0182	.3882				
180.000	1.6009	.3023	.4026	-.1904	-.1435	-.1457	.1462	.1053	-.0340	.0004	.4836	.6350	.0000	.3340	-.1611
225.000		.2470	.5053	-.1926	-.1756	-.1879	.0403	.0718	-.0002	.0010	.6022				
270.000		.0000	.8053	-.0104	-.3272	-.2374	-.1824	-.2379	-.1043	-.0333	.3676	.1159	.7712	.6687	-.4014
315.000		.2401	.5056	-.1980	-.1598	-.2067	-.0975	-.0975	-.0101	.0010	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0121	-.2089	-.0564	-.1489	.1087	.2122
45.000	.1188	-.1837			.3075	.3700
90.000	-.0270	-.1329	.0000	-.0340	.2631	.3119
135.000	.3418	-.1982			.2135	.2772
180.000	.3368	-.2268	.1380	.1087	.2487	.3253
225.000	-.0018	-.1527			.2911	.0000
270.000	-.1524	-.1032	.0339	-.0672	-.0179	-.0227
315.000	-.1319	-.1297			.0106	.0114

ALPHAL(4) = -.257 BETAL (2) = -3.820

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5840	.2576	.3719	-.2077	-.1580	-.1549	-.1270	-.0271	-.0098	-.0273	.2579	.3400	.0307	.2465	-.1239
45.000		.2949	[illegible]	-.2087	-.1489	-.0700	-.0898	-.0170	.0154	-.0375	.2415				
90.000		.3106	.3056	-.2255	-.1436	-.0753	-.0589	-.0117	-.0155	-.0223	.1967		.0584	.0965	
135.000		.3028	[illegible]	-.2071	-.1467	-.0741	-.0148	.0599	-.0003	-.0083	.3528				
180.000	1.5840	.2683	.3967	-.1999	-.1584	-.1530	.1112	.0775	-.0486	.0060	.4424	.6075	.0000	.2764	-.1932
225.000		.2195	[illegible]	-.1933	-.1879	-.1936	.0558	.0375	-.0238	-.0289	.5557				

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ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS46)

ALPHAL(4) = -.257 BETAL (2) = -3.820

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.8159	.0002	-.3301	-.2531	-.2127	-.2448	-.1039	-.0350	.3692	1.0302	.7092	.6673	-.4085
315.000		.2133	.4944	-.2027	-.1763	-.2329	-.1012	-.1027	-.0343	-.0108	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0135	-.2041	-.0277	-.1167	.1137	.1866
45.000	.1200	-.1745			.2906	.3510
90.000	-.0183	-.1281	.0000	-.0334	.2432	.2803
135.000	.3180	-.1585			.1983	.2608
180.000	.3142	-.2322	.1197	.1077	.2341	.3266
225.000	-.0065	-.1442			.2602	.0000
270.000	-.1467	-.0997	.0077	-.0719	-.0359	-.0236
315.000	-.1180	-.1135			-.0331	-.0125

ALPHAL(4) = -.230 BETAL (3) = -1.652

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5513	.2265	.3585	-.2146	-.1687	-.1687	-.1002	-.0095	-.0061	-.0142	.2382	.3506	-.0074	.1280	-.1286
45.000		.2521	.2631	-.2301	-.1674	-.0917	-.0949	.0024	.0190	-.0282	.2400				
90.000		.2621	.2593	-.2452	-.1627	-.0964	-.0679	-.0321	-.0026	-.0272	.2016		.0221	.0586	
135.000		.2543	.2703	-.2221	-.1662	-.0992	.0617	.0178	-.0184	-.0244	.3297				
180.000	1.5513	.2271	.3732	-.2117	-.1687	-.1690	.0809	.0369	-.0450	-.0298	.4217	.6593	.0000	.1694	-.2324
225.000		.1921	.4908	-.2035	-.1957	-.2117	.0661	.0040	-.0539	-.0554	.4632				
270.000		.0000	.8299	.0230	-.3330	-.2695	-.2267	-.2471	-.1543	-.0751	.3156	.9473	.5689	.5846	-.3707
315.000		.1883	.4911	-.2032	-.1900	-.2622	-.1012	-.0745	-.0605	-.0310	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0245	-.2114	-.0211	-.0970	.1119	.1634
45.000	.1106	-.1547			.2588	.3064
90.000	-.0134	-.1317	.0000	-.0305	.2239	.2537
135.000	.2992	-.1969			.1806	.2375
180.000	.2852	-.2138	.1157	.1025	.2362	.3319
225.000	-.0601	-.1956			.2616	.0000
270.000	-.1540	-.1197	.0095	-.0784	-.0518	-.0488
315.000	-.1446	-.1448			-.0573	-.0222

ARC97-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS46)

ALPHAL(4) = -.223 BETAL (4) = .479

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5355	.2028	.3432	-.2183	-.1804	-.1833	-.0875	-.0134	-.0171	-.0146	.2341	.3957	-.0254	.1602	-.1520
45.000		.2100	.2201	-.2443	-.1770	-.0975	-.1051	.0199	.0130	-.0144	.2451				
90.000		.2176	.2138	-.2639	-.1767	-.0994	-.0771	-.0078	.0096	-.0276	.2057		-.0147	.0138	
135.000		.2169	.2288	-.2326	-.1804	-.1007	.0473	-.0159	-.0326	-.0412	.3093				
180.000	1.5355	.2016	.3473	-.2134	-.1745	-.1616	.0501	-.0206	-.0770	-.0662	.3310	.8225	.0000	-.0216	-.2646
225.000		.1781	.4770	-.2005	-.1867	-.2074	.0699	-.0121	-.0405	-.0475	.4009				
270.000		.0060	.8355	.0328	-.3306	-.2703	-.2203	-.2238	-.1287	-.0573	.2655	.7875	.3193	.3944	-.3153
315.000		.1734	.4927	-.2037	-.1792	-.2681	-.0963	-.0554	-.0583	-.0276	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0021	-.1672	.0195	-.0592	.1132	.1433
45.000	.1037	-.1242			.2801	.2996
90.000	-.0137	-.1324	.0000	.0443	.3252	.3425
135.000	.2694	-.1974			.2144	.2631
180.000	.1954	-.2084	.1264	.1226	.2382	.2754
225.000	-.1164	-.2260			.1784	.0000
270.000	-.1613	-.1368	.0324	-.0737	-.0391	-.0295
315.000	-.1418	-.1745			-.0397	-.0146

ALPHAL(4) = -.205 BETAL (5) = 2.503

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5075	.1835	.3345	-.2267	-.1812	-.1965	-.0805	-.0178	-.0137	-.0120	.2344	.3773	.0034	.0941	-.1263
45.000		.1770	.2057	-.2470	-.1969	-.1222	-.1033	.0384	.0109	-.0225	.2444				
90.000		.1792	.1860	-.2797	-.2074	-.1153	-.0409	-.0050	.0081	-.0335	.2481		-.0022	.0601	
135.000		.1732	.2072	-.2302	-.1931	-.1216	.0306	-.0409	-.0502	-.0673	.2748				
180.000	1.5075	.1752	.3386	-.2193	-.1796	-.1784	.0649	-.0702	-.0720	-.0695	.2679	.6761	.0000	-.0794	-.2289
225.000		.1626	.4730	-.1987	-.1890	-.2043	.1040	-.0537	-.0161	-.0392	.3504				
270.000		.0000	.8346	.0393	-.3380	-.2727	-.2322	-.1788	-.0790	-.0225	.2391	.6571	.2417	.2561	-.2922
315.000		.1598	.4880	-.2028	-.1771	-.2613	-.0743	-.0524	-.0414	-.0190	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0585	-.1515	.0702	-.0349	.1628	.1675
45.000	.1623	-.1216			.2771	.2855
90.000	.0834	-.0997	.0000	.0078	.2730	.2917
135.000	.2331	-.1615			.2210	.2327
180.000	.1015	-.1200	.1715	.1220	.2098	.1992

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS46)

ALPHAL(4) = -.205 BETAL (5) = 2.603

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0969	-.2452			.2338	.0000
270.000	-.1415	-.1181	.0398	-.0618	-.0152	-.0009
315.000	-.1178	-.1834			.0095	.0407

ALPHAL(4) = -.193 BETAL (6) = 4.031

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4699	.1537	.3037	-.2372	-.2033	-.2195	-.0680	-.0302	-.0208	.0461	.2904	.4179	.0662	.0674	-.1758
45.000		.1365	.1811	-.2655	-.2198	-.1427	-.0899	.0289	-.0067	.0372	.2982				
90.000		.1359	.1325	-.3004	-.2257	-.1283	-.0271	.0101	-.0068	.0199	.3007		-.1062	-.1100	
135.000		.1340	.1599	-.2628	-.2145	-.1352	.0054	-.0605	-.0840	-.0031	.3233				
180.000	1.4699	.1465	.3106	-.2320	-.1989	-.1848	.0242	-.0958	-.0577	.0833	.3054	.6940	.0000	-.1375	-.2586
225.000		.1471	.4553	-.2095	-.1939	-.2120	.0954	-.0914	-.0283	.2431	.3333				
270.000		.0000	.8249	.0385	-.3407	-.2895	-.1936	-.1426	-.0611	.1119	.2841	.7120	.3108	.3946	-.3225
315.000		.1443	.4749	-.2036	-.1867	-.2495	-.0633	-.0533	-.0315	.0423	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0678	-.1081	.0603	.0158	.1696	.1730
45.000	.1393	-.1483			.2307	.2415
90.000	.0756	-.0969	.0000	.0123	.2511	.2211
135.000	.1247	-.1255			.1637	.1360
180.000	.0929	-.1511	.1498	.1138	.2471	.2240
225.000	-.1128	-.1919			.1876	.0000
270.000	-.1474	-.1187	.0612	-.0627	-.0176	-.0081
315.000	-.1040	-.1696			.0553	.0843

ALPHAL(4) = -.185 BETAL (7) = 8.641

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4377	.1172	.2816	-.2411	-.2114	-.2223	-.0580	-.0069	.0474	.0343	.2678	.4366	.0831	.0868	-.2009
45.000		.0919	.1511	-.2794	-.2301	-.1497	-.0483	.0979	.0312	.0068	.2797				
90.000		.0928	.1025	-.3086	-.2276	-.1207	-.0178	.1104	.0296	-.0208	.2972		-.1438	-.1686	
135.000		.0950	.1318	-.2727	-.2232	-.1503	-.0165	.0147	-.0142	-.0120	.3156				
180.000	1.4377	.1216	.2988	-.2276	-.2036	-.1830	-.0078	-.1035	-.0082	.1641	.2831	.6978	.0000	-.1131	-.2819
225.000		.1321	.4626	-.2033	-.1946	-.1933	.0845	-.1151	.0097	.2610	.3859				

ARC87-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS46)

ALPHAL(4) = -.185 BETAL (7) = 6.841

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.8049	.0381	-.3285	-.2765	-.1625	-.1148	.0921	.1485	.3481	.8205	.5080	.6655	-.3688
315.000		.1309	.4698	-.2036	-.1833	-.2158	-.0468	-.0508	.0484	.0619	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0849	-.1463	.1415	.0018	.2225	.2461
45.000	.1241	-.1665			.2117	.1996
90.000	.0724	-.1235	.0000	-.0007	.1536	.1235
135.000	.0886	-.1746			.1126	.1160
180.000	.0683	-.1989	.1368	.0380	.1688	.1276
225.000	-.1547	-.1478			.0236	.0000
270.000	-.1615	-.1248	-.0091	-.0859	-.0568	-.0418
315.000	-.1092	-.1737			.0567	.1194

ALPHAL(5) = 1.955 BETAL (1) = .537

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5261	.2570	.4047	-.1034	-.1469	-.1608	-.0876	-.0115	-.0127	-.0048	.2263	.0335	.0484	.1041	-.1535
45.000		.2397	.2564	-.2262	-.1643	-.0980	-.1029	.0112	.0146	-.0139	.2612				
90.000		.2177	.2028	-.2632	-.1969	-.1273	-.0932	.0041	.0308	-.0262	.2484		-.0302	-.0202	
135.000		.1879	.1839	-.2588	-.1988	-.1011	.0205	-.0034	.0096	-.0190	.3267				
180.000	1.5261	.1538	.3014	-.2405	-.2087	-.1456	.0087	-.0146	-.0541	-.0221	.3949	.7798	.0000	.0268	-.2277
225.000		.1327	.3966	-.2393	-.2523	-.2361	-.0416	.0096	-.0529	-.0196	.4295				
270.000		.0000	.8109	.0090	-.3428	-.2467	-.0699	-.0286	-.0657	-.0227	.2223	.7296	.3511	.3393	-.3112
315.000		.2236	.5665	-.1652	-.0856	-.1747	-.0643	-.0081	-.0321	-.0084	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0265	-.1480	.0828	-.0034	.1728	.1878
45.000	.1203	-.0799			.2538	.2434
90.000	-.0299	-.1253	.0000	.0438	.3551	.3368
135.000	.3010	-.1828			.2283	.2638
180.000	.1945	-.2070	.1472	.1107	.2143	.2401
225.000	-.1026	-.2213			.2063	.0000
270.000	-.1629	-.1315	.0656	-.0594	-.0134	-.0093
315.000	-.1199	-.1539			.0062	.0312

AR097-019 1A81 LVAP(ALLHL SEALED) SRM BOOSTER (RET548)

ALPHAL(6) = 3.532 BETAL (1) = -3.658

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7380	.7370
PHI															
.000	1.5681	.3570	.4843	-.1593	-.1027	-.0955	-.0736	.0205	.0292	.0149	.2328	.3882	.0365	.0148	-.1458
45.000		.3409	.3915	-.1853	-.1202	-.0466	-.0761	-.0200	.0332	.0035	.2950				
90.000		.2934	.3088	-.2288	-.1616	-.1423	-.1225	-.0418	.0027	-.0175	.3000		.0450	.0704	
135.000		.2418	.2133	-.2564	-.1931	-.1108	-.0755	.0255	.0360	.0001	.3484				
180.000	1.5681	.1838	.2577	-.2377	-.2043	-.1239	-.0147	.0080	.0042	.0174	.4155	.5747	.0000	.2193	-.0393
225.000		.1437	.3306	-.2648	-.3084	-.1769	-.1082	.0040	.0039	.0322	.4938				
270.000		.0000	.7622	-.0385	-.4069	-.2024	-.0509	.0407	.0124	.0199	.1495	.7444	.4335	.3211	-.3479
315.000		.2968	.6249	-.1420	-.0291	-.2063	-.0624	.0351	.0077	.0181	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0431	-.1515	.0274	-.0903	.2738	.3507
45.000	.1840	-.1318			.3265	.3228
90.000	.0801	-.0426	.0000	.0127	.2673	.2556
135.000	.3438	-.1680			.2050	.2398
180.000	.2787	-.1954	.2010	.0629	.1926	.2092
225.000	-.0211	-.2419			.1939	.0000
270.000	-.1156	-.1125	.0028	-.0271	.0376	.0190
315.000	-.1031	-.1078			.0152	.0551

ALPHAL(6) = 3.510 BETAL (2) = .610

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5219	.3101	.4584	-.1778	-.1220	-.1319	-.0993	.0000	-.0115	-.0014	.2122	.3915	.0528	.0164	-.1844
45.000		2608	.3045	-.2204	-.1565	-.1079	-.1124	-.0200	.0000	-.0120	.2924				
90.000		.2052	.2087	-.2669	-.2057	-.1733	-.1252	-.0115	.0068	-.0315	.2884		-.0790	-.0903	
135.000		.1655	.1391	-.2766	-.2169	-.1288	-.0389	.0009	.0218	-.0077	.3180				
180.000	1.5219	.1173	.2452	-.2533	-.2305	-.1107	-.0299	-.0028	-.0271	.0021	.3835	.6190	.0000	-.0131	-.1489
225.000		.0929	.3219	-.2754	-.3248	-.1901	-.0937	-.0031	-.0148	.0690	.3972				
270.000		.0000	.7761	-.0171	-.4001	-.2041	-.0368	.0280	-.0077	.0608	.1538	.5455	.2598	.1707	-.2669
315.000		.2738	.6290	-.1397	-.0373	-.1376	-.0424	.0264	-.0130	.0257	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0525	-.1184	.1048	.0467	.2415	.2901
45.000	.1301	-.1117			.3628	.3709
90.000	.0572	-.0457	.0000	.0788	.2396	.2031
135.000	.2648	-.1694			.2650	.2817
180.000	.1488	-.1625	.1845	.1080	.1913	.1839

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS46)

ALPHAL(6) = 3.510 BETAL (2) = .610

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0650	-.2872			.2356	.0000
270.000	-.1435	-.1152	.0570	-.0257	.0293	.0296
315.000	-.1292	-.1451			.0632	.1048

ALPHAL(6) = 3.447 BETAL (3) = 4.137

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6983	.7280	.7290	.7360	.7370
PHI															
.000	1.4591	.2636	.4098	-.1872	-.1453	-.1671	-.0942	-.0513	-.0295	-.0062	.2842	.5774	.0801	.0641	-.2355
45.000		.1670	.2387	-.2562	-.2103	-.1780	-.1213	-.0264	-.0298	.0636	.2795				
90.000		.1096	.1385	-.3007	-.2483	-.2010	-.0886	.0178	-.0077	.0296	.2664		-.1263	-.1521	
135.000		.0819	.0920	-.2965	-.2327	-.1263	-.0021	.0000	-.0087	.0966	.3317				
180.000	1.4591	.0481	.2154	-.2704	-.2492	-.1674	-.0186	-.0227	-.0153	.1867	.3473	.5526	.0000	-.1207	-.1681
225.000		.0437	.3008	-.2856	-.3416	-.2349	-.0498	-.0096	-.0034	.2086	.3799				
270.000		.0000	.8059	.0321	-.3326	-.2321	-.0059	-.0040	-.0075	.1436	.2426	.5063	.2142	.1412	-.2750
315.000		.2458	.6255	.1412	-.0463	-.1160	.0069	-.0003	-.0160	.0513	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1217	-.0896	.2473	.0631	.3707	.4253
45.000	.2083	-.1205			.4023	.3515
90.000	.0810	-.0223	.0000	.0516	.1573	.1226
135.000	.1737	-.1217			.2069	.1863
180.000	.0790	-.0924	.1645	.0943	[illegible]	.1217
225.000	-.0849	-.2215			[illegible]	.0000
270.000	-.1367	-.0940	.1561	-.0013	.0675	.0508
315.000	-.0965	-.1560			.2004	.2472

ALPHAL(7) = 6.302 BETAL (1) = .502

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4977	.3631	.5007	-.1579	-.0935	-.1016	-.0696	.0032	-.0229	-.0113	.2623	.5120	[illegible]	.1651	[illegible]
45.000		[illegible]	.3451	-.2111	-.1526	-.1134	-.1265	-.0556	-.0391	-.0223	.3231				
90.000		.1827	[illegible]	-.2710	-.2216	-.2372	-.1778	-.0640	-.0301	-.0205	.3003		-.0829	-.1071	
135.000		[illegible]	[illegible]	-.3006	-.2325	-.1514	[illegible]	-.0015	.0220	.0063	.2570				
180.000	1.4977	.081		-.2679	-.2524	-.1604	-.0359	.0007	.0094	.1026	.3464	.5104	.0000	-.0469	-.1130
225.000		.0479	[illegible]	-.3186	-.3342	-.2462	-.0787	-.0083	.0198	.1632	.3782				

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ARC97-019 IA81 LVAP(ALLML SEALED) SRM BOOSTER (RETS46)

ALPHAL(7) = 8.302 BETAL (1) = .682

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1958	.2794	.3832	.4750	.5887	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.7319	-.0438	-.3933	-.2509	-.0301	-.0043	.0187	.1292	.2910	.5235	.2365	.2306	-.2770
315.000		.3172	.6724	-.1199	-.0067	-.1044	-.0431	.0424	.0025	.0210	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1198	-.0908	.2102	.0629	.3021	.3229
45.000	.1440	-.0871			.3733	.3675
90.000	.0951	-.0149	.0000	.0872	.1882	.1467
135.000	.2180	-.1450			.2789	.2756
180.000	.1061	-.1347	.1876	.0956	.1656	.1410
225.000	-.0707	-.2725			.1851	.0000
270.000	-.1487	-.0939	.1033	-.0002	.0648	.0474
315.000	-.1002	-.1475			.1687	.2058

ARC8T-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS47) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT XMRP = 876.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-IB = 10.000 ELV-OB = -4.000
RUDDER = .000 SPOBRK = .000

ALPHAL(1) = -6.932 BETAL (1) = .209

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3032	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7309	.1239	.0727	-.1586	-.1269	-.1278	-.1544	-.1218	-.0617	- 0463	.1194	.2861	.0686	.1056	-.1892
45.000		.1699	.1352	-.1709	-.1644	-.0762	-.0915	-.1103	-.1870	-.1844	-.0858				
90.000		.2097	.2141	-.1390	-.1278	-.1522	-.1184	-.1253	-.2201	-.1885	-.0687		-.0289	-.0140	
135.000		.3122	.2946	-.0940	-.0665	-.0380	-.0195	-.0301	-.0646	-.1123	-.0605				
180.000	1.7309	.4173	.4045	-.0048	.0268	.0055	.1383	.0047	.0087	-.0444	.0252	.3217	.0000	.2532	-.2217
225.000		.3961	.5822	.0785	.1004	-.0677	.2513	.1204	.0252	-.0185	.2246				
270.000		.0000	.8977	.2156	.1229	-.2862	-.0962	-.0977	-.0207	-.0403	.2357	.6925	.3069	.3188	-.2958
315.000		.1220	.3429	-.1172	-.2230	-.3231	-.1710	-.1331	-.0156	-.0245	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0630	-.1365	.0608	-.0055	.1347	.0852
45.000	-.0036	-.1616			-.0197	-.0269
90.000	-.1674	-.1193	.0000	- 0751	- 0028	.0113
135.000	.0415	-.2142			.0066	.1236
180.000	.0810	-.1989	.1215	-.1065	.2659	.3533
225.000	- 0460	-.1353			.1673	.0000
270.000	-.1443	-.1039	.0360	-.0305	.0363	-.0309
315.000	- 0701	-.1349			-.0122	.0000

ALPHAL(2) = -4.834 BETAL (1) = -4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3032	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8198	.2234	.1588	-.1467	-.0715	.0121	-.1537	-.0835	-.0957	-.0463	.0687	.1315	-.0178	.0545	-.1542
45.000		.2730	.2433	-.1268	-.1141	-.0249	-.0462	-.0922	-.1361	-.1403	-.0257				
90.000		.3204	.3372	-.0811	-.0712	-.0847	-.0462	-.0597	-.1427	-.1678	-.0602		.0185	.0526	
135.000		.3830	.3690	-.0549	-.0345	.0225	-.0114	.0992	.0174	-.0276	.0376				
180.000	1.8198	.4262	.3605	-.0348	.0367	.0125	-.0374	.1869	.0592	.0231	.0876	.4954	.0000	.2296	-.1689
225.000		.3861	.7344	.0693	.0827	-.1126	.1769	.1957	.0566	.0633	.1655				
270.000		.0000	.9314	.2103	.0367	-.2772	-.1380	-.0650	-.0292	-.0190	.3048	1.0316	.7608	.8505	-.2834
315.000		.2102	.4540	-.0639	-.1383	-.2815	-.1142	-.1367	-.0529	-.0042	.0000				

ARC97-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS47)

ALPHAL(2) = -4.834 BETAL (1) = -4.130

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.8120	.9130	.9344	.9565
PHI						
.000	-.0386	-.1282	-.0083	-.1314	.0287	-.0051
45.000	.0378	-.1376			.0259	.0848
90.000	-.1137	-.1141	.0000	-.1305	.0751	.1791
135.000	.1259	-.1103			.1236	.2074
180.000	.2542	-.1332	.2154	-.1164	.1813	.3232
225.000	.0095	-.2157			.1939	.0000
270.000	-.1590	-.1201	.0478	-.0694	-.0108	.0090
315.000	-.0975	-.1539			.0168	-.0027

ALPHAL(2) = -4.783 BETAL (2) = .163

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7401	.1573	.1189	-.1333	-.1156	-.1169	-.1607	-.0859	-.0316	-.0334	.1530	.2516	.0350	.1273	-.1473
45.000		.1904	.1583	-.1682	-.1522	-.0629	-.0781	-.1004	-.0903	-.0595	-.0159				
90.000		.2241	.2256	-.1342	-.1260	-.1311	-.0707	-.0821	-.1689	-.1487	-.0028		-.0027	.0312	
135.000		.2838	.2673	-.1134	-.0812	-.0430	-.0869	-.0035	-.0302	-.0939	-.0289				
180.000	1.7401	.3803	.3209	-.0411	-.0022	-.0289	.1307	.0824	.0093	-.0499	.0376	.3993	.0000	.2211	-.2228
225.000		.3498	.6687	.0543	.0581	-.1317	.1945	.1162	.0064	-.0165	.2667				
270.000		.0000	.9218	.2425	.0221	-.2880	-.1266	-.0976	-.0286	-.0356	.2386	.7498	.3548	.4780	-.3008
315.000		.1627	.4078	-.0853	-.1633	-.3066	-.1374	-.1667	-.0337	-.0238	.0000				

X/LS	.8102	.8661	.8120	.9130	.9344	.9565
PHI						
.000	-.0069	-.1548	.0057	-.1151	.1258	.1195
45.000	.0337	-.1205			.0309	.0306
90.000	-.0890	-.1041	.0000	-.0687	.0555	.1113
135.000	.1221	-.1772			.0517	.1192
180.000	.1198	-.1659	.1187	-.0914	.1829	.2976
225.000	-.0357	-.1230			.1044	.0000
270.000	-.1372	-.1050	.0246	-.0731	-.0378	-.0246
315.000	-.0735	-.1252			-.0167	.0030

AR-87-018 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS47)

ALPHAL(2) = -4.719 BETAL (3) = 3.749

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0850	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6237	.0918	.0848	-.1554	-.1165	-.1459	-.1301	-.0562	-.0038	-.0226	.1105	3708	.0932	.0894	-.1571
45.000		.1153	.0982	-.1866	-.1718	-.0764	-.0862	-.0518	-.0082	-.0309	-.0452				
90.000		.1370	.1357	-.1662	-.1579	-.1531	-.0745	-.1010	-.1124	-.0863	.0544		-.0421	-.0125	
135.000		.1900	.1875	-.1408	-.1216	-.0922	-.0240	-.0840	-.0869	-.1382	-.0328				
180.000	1.6237	.2895	.3054	-.0673	-.0259	-.0547	.0662	.0012	-.0509	-.0691	.0369	.4645	.0000	.0202	-.2489
225.000		.3035	.4240	.0419	.0429	-.1159	.2092	.0470	-.0325	-.0245	.1710				
270.000		.0000	.9122	.2951	.0328	-.2908	-.1017	-.1399	-.0599	-.0188	.1372	.7276	.3768	.5594	-.2936
315.000		.1179	.3884	-.0856	-.1774	-.3005	-.1329	-.1335	-.0379	-.0252	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0948	-.1297	.0382	-.1211	.1058	.1758
45.000	.0847	-.1398			.1325	.1097
90.000	-.0014	-.0893	.0000	-.0446	.0196	.0158
135.000	.0200	-.1038			.0250	.0931
180.000	.0298	-.1392	.0616	-.0626	.1758	.1498
225.000	-.0820	-.1585			.0474	.0000
270.000	-.1319	-.1237	-.0506	-.0920	-.0674	-.0489
315.000	-.0814	-.1667			-.0016	.1005

ALPHAL(3) = -2.510 BETAL (1) = .153

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7421	.1982	.1534	-.1293	-.0760	-.0981	-.1471	-.0500	.0008	-.0139	.1654	.2261	.0349	.1408	-.1178
45.000		.2157	.1887	-.1513	-.1329	-.0526	-.0808	-.0813	-.0248	-.0085	-.0346				
90.000		.2380	.2310	-.1326	-.1177	-.1038	-.0895	-.0542	-.0858	-.0582	.0966		.0441	.0778	
135.000		.2847	.2510	-.1218	-.0943	-.0390	-.0658	.0410	-.0196	-.0833	.0543				
180.000	1.7421	.3082	.2519	-.0796	-.0810	-.0545	.0885	.1018	.0192	-.0810	.0678	.4398	.0000	.0781	-.2008
225.000		.3066	.6405	.0274	.0172	-.1793	.0868	.0953	-.0028	-.0185	.3184				
270.000		.0000	.9361	.2653	-.0538	-.2833	-.0687	-.1028	-.0521	-.0419	.3014	.8514	.5245	.6517	-.2908
315.000		.2088	.5088	-.0483	-.1018	-.2700	-.0924	-.0731	-.0445	-.0209	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0072	-.1450	-.0118	-.1325	.1165	.1318
45.000	.0978	-.0913			.1304	.1759
90.000	-.0408	-.0863	.0000	-.0785	.1588	.2302
135.000	.2260	-.1355			.0817	.1414
180.000	.1907	-.1210	.1528	-.0981	.1354	.2660

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS47)

ALPHAL(3) = -2.510 BETAL (1) = .157

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.0077	-.1207			.1078	.0000
270.000	-.1527	-.0967	.0340	-.0030	-.0295	-.0205
315.000	-.1879	-.1166			-.0175	.0248

ALPHAL(4) = -.310 BETAL (1) = -6.104

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8782	.3448	.2604	-.1025	-.0097	-.0141	-.0886	-.0004	-.0049	-.0111	.1620	.2837	.0498	.0422	-.0997
45.000		.3714	.3314	-.0872	-.0627	.0253	.0008	-.0222	.0103	-.0076	-.0124				
90.000		.3815	.3743	-.0643	-.0394	-.0176	.0444	.0059	-.0039	-.0025	.1037		.0957	.1475	
135.000		.3755	.3429	-.0791	-.0561	.0051	.0027	.1016	.0702	.0259	.1454				
180.000	1.8782	.3562	.2687	-.0860	-.0072	-.0217	-.0981	.1882	.0880	.0750	.1407	.5673	.0000	.2624	-.0902
225.000		.3295	.6103	.0174	.0026	-.1986	.0052	.1278	.0469	.0702	.3728				
270.000		.0000	.9622	.2103	-.0974	-.2525	.0030	-.0731	-.1275	-.0013	.3546	1.1562	.9361	1.0989	-.2760
315.000		.3187	.5870	.0104	.0041	-.2052	-.0358	.0090	-.0555	.0032	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0686	-.1496	-.1309	-.1556	.0144	.0830
45.000	.1007	-.0962			.2884	.3846
90.000	.0342	-.0207	.0000	.0198	.2789	.3487
135.000	.1945	-.0684			.2571	.2284
180.000	.3373	-.0213	.3392	-.0943	.1060	.1951
225.000	.0710	-.2024			.1244	.0000
270.000	-.1622	-.0930	.0245	-.0494	-.0087	.0005
315.000	-.0892	-.1297			-.0466	.0076

ALPHAL(4) = -.308 BETAL (2) = -4.131

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8278	.3133	.2365	-.1000	-.0172	-.0314	-.1002	-.0057	-.0013	-.0024	.1648	.2692	.0364	.0234	-.1081
45.000		.3327	.2999	-.1028	-.0776	-.0112	-.0218	-.0389	.0123	.0017	-.0008				
90.000		3384	.3362	-.0834	-.0611	-.0463	.0218	-.0183	-.0158	-.0113	.1022		.0796	.1171	
135.000		.3368	.3126	-.0934	-.0681	-.0235	-.0193	.0993	.0394	.0139	.1243				
180.000	1.8278	.3203	.2521	-.0836	-.0080	-.0387	-.1081	.1683	0432	.0413	.1227	.5113	.0000	.2702	-.1093
225.000		.3015	.6147	.0103	-.0109	-.2090	.0028	.1116	.0343	.6378	.3457				

ARC87-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS47)

ALPHAL(4) = -.308 BETAL (2) = -4.131

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.9566	.2280	-.1035	-.2593	-.0022	-.1012	-.1160	-.0410	.3454	1.0979	.8656	.9832	-.3822
315.000		.2938	.5923	.0027	-.0090	-.2144	-.0459	-.0082	-.0528	-.0174	.0009				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0408	-.1447	-.1016	-.1436	.0394	.1284
45.000	.0882	-.1037			.2818	.3761
90.000	.0339	-.0132	.0000	.0287	.2380	.2970
135.000	.1694	-.0696			.2572	.2209
180.000	.3399	-.0709	.2897	-.0991	.0897	.2190
225.000	.0505	-.2165			.2196	.0000
270.000	-.1588	-.0879	.0416	-.0467	.0053	.0061
315.000	-.0860	-.1254			-.0357	.0115

ALPHAL(4) = -.289 BETAL (3) = -1.952

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7911	.2847	.2191	-.1013	-.0289	-.0539	-.1138	-.0158	.0054	.0031	.1733	.2290	.0570	.0777	.1198
45.000		.2897	.2560	-.1134	-.0971	-.0346	-.0414	-.0525	.0145	.0117	.0389				
90.000		.2926	.2869	-.1093	-.0899	-.0646	.0008	-.0348	-.0171	-.0080	.1136		.0710	.1031	
135.000		.2955	.2665	-.1129	-.0877	-.0456	-.0402	.0762	.0098	-.0087	.1733				
180.000	1.7911	.2932	.2315	-.0839	-.0276	-.0573	-.1170	.1394	.0169	-.0259	.1367	.4882	.0007	.3343	-.1262
225.000		.2815	.6038	.0043	-.0245	-.2172	.0547	.0730	.0034	.0076	.3297				
270.000		.0000	.9499	.2485	-.1895	-.2672	-.0202	-.1239	-.0786	-.0451	.3297	.9811	.7027	.7809	-.2887
315.000		.2748	.6007	-.0030	-.0191	-.2229	-.0557	-.0221	-.0508	-.0361	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0182	-.1440	-.0451	-.1071	.0542	.1312
45.000	.1120	-.0764			.2351	.3224
90.000	.0122	-.0296	.0000	.0017	.2209	.2750
135.000	.1914	-.0701			.2142	.1905
180.000	.3155	-.1010	.2563	-.1078	.0871	.2151
225.000	.0328	-.2024			.1140	.0000
270.000	-.1320	-.0941	.0331	-.0575	-.0160	-.0164
315.000	-.0934	-.1260			-.0319	-.0004

ARC97-019 IA01 LVAP(ALLML SEALED) SRM BOOSTER (RETS47)

ALPHAL(4) = -.279 BETAL (4) = .140

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7441	.2455	.1942	-.1098	-.0466	-.0756	-.1261	-.0231	.0073	.0025	.1676	.2882	.0405	.1229	-.1080
45.000		.2385	.2197	-.1403	-.1142	-.0583	-.0613	-.0591	.0244	.0137	.1376				
90.000		.2381	.2324	-.1308	-.1135	-.0864	-.0177	-.0275	-.0152	.0022	.0986		.0628	.0927	
135.000		.2385	.2254	-.1322	-.1091	-.0696	-.0623	.0544	-.0128	-.0281	1969				
180.000	1.7441	.2534	.2009	-.1082	-.0456	-.0794	-.0860	.0996	.0044	-.0514	.1494	.4331	.0000	.3496	-.1541
225.000		.2576	.5794	-.0055	-.0383	-.2279	.0632	.0440	-.0058	-.0256	.3556				
270.000		.0000	.9438	.2700	-.1066	-.2772	-.0427	-.1388	-.0798	-.0588	.3154	.9108	.6226	.6393	-.2828
315.000		.2518	.5863	-.0080	-.0720	-.2314	-.0683	-.0272	-.0360	-.0412	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0227	-.1072	-.0284	-.0997	.0660	.0985
45.000	.0815	-.0810			.1594	.2001
90.000	.0021	-.0633	.0000	-.0363	.2285	.2796
135.000	.2670	-.0924			.1739	.1690
180.000	.2597	-.0974	.2159	-.1199	.0893	.2085
225.000	.0263	-.1852			.0720	.0000
270.000	-.1284	-.1075	.0521	-.0767	-.0334	-.0374
315.000	-.0930	-.1303			-.0435	-.0072

ALPHAL(4) = -.279 BETAL (5) = 2.252

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6834	.2099	.1758	-.1137	-.0602	-.0921	-.1322	-.0220	.0124	-.0049	.1711	.3169	.0529	.1460	-.1297
45.000		.1879	.1758	-.1563	-.1253	-.0580	-.0808	-.0378	.0320	.0070	.1385				
90.000		.1879	.1898	-.1503	-.1319	-.0984	-.0255	-.0144	-.0024	-.0007	.1037		.0300	.0647	
135.000		.1927	.1860	-.1493	-.1231	-.0678	-.0722	.0364	-.0119	-.0377	.1991				
180.000	1.6834	.2178	.1765	-.1107	-.0567	-.0975	.0440	.0664	-.0278	-.0642	.1420	.6748	.0000	.1511	-.1958
225.000		.2376	.5591	-.0071	-.0408	-.2314	.0338	.0096	-.0238	-.0275	.2729				
270.000		.0000	.9351	.3018	-.1114	-.2763	-.0454	-.1506	-.0853	-.0326	.1940	.8163	.3893	.4852	-.2990
315.000		.2280	.5717	-.0109	-.0365	-.2352	-.0710	-.0227	-.0320	-.0352	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0358	-.1063	.0173	-.0379	.0827	.1171
45.000	.0723	-.0947			.1417	.1502
90.000	.0161	-.0783	.0000	-.0483	.2408	.2705
135.000	.2558	-.1032			.1149	.1586
180.000	.1943	-.0789	.1404	-.0638	.0846	.1730

ARC87-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS47)

ALPHAL(4) = -.279 BETAL (5) = 2.252

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0159	-.1332			.1411	.0000
270.000	-.1307	-.0978	.0091	-.0695	-.0464	-.0415
315.000	-.0943	-.1250			-.0227	.0114

ALPHAL(4) = -.273 BETAL (6) = 3.683

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6226	.1801	.1680	-.1123	-.0751	-.1083	-.1083	-.0219	-.0023	-.0141	.1430	.3194	.1181	.1887	-.1553
45.000		.1508	.1479	-.1693	-.1371	-.0707	-.0849	- 0285	.0215	-.0080	.1318				
90.000		.1486	.1486	-.1639	-.1492	-.1052	-.0365	-.0187	.0056	-.0115	.1277		.0275	.0714	
135.000		.1559	.1451	-.1662	-.1359	-.0754	-.0716	.0097	-.0259	-.0517	.1832				
180.000	1.6226	.1890	.1706	-.1067	-.0760	-.1121	.0813	.0234	-.0418	-.0616	.1430	.6893	.0000	.0676	-.2126
225.000		.2164	.5448	-.0169	-.0517	-.1786	-.0535	.0079	-.0476	-.0118	.2257				
270.000		.0000	.9247	.3269	-.1248	-.1887	-.1282	-.1406	-.0824	-.0371	.1890	.8038	.4010	.4891	-.2978
315.000		.2078	.5593	-.0178	-.0482	-.1918	-.0953	-.0111	-.0294	-.0291	.0000				

X/LS	.8102	.8661	.9100	.9130	.9344	.9565
PHI						
.000	.1076	-.0997	.0769	-.0330	.1283	.1523
45.000	.0787	-.0782			.1539	.1422
90.000	.0399	-.0649	.0000	-.0494	.2164	.2265
135.000	.1776	-.0984			.0960	.1202
180.000	.1302	-.0564	.1053	-.0349	.1	.1718
225.000	-.0270	-.1568			.0030	.0000
270.000	-.1271	-.1091	-.0298	-.0778	-.0497	-.0269
315.000	-.0898	-.1445			.0472	.1107

ALPHAL(4) = -.251 BETAL (7) = 8.348

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.5871	.1699	.1734	-.1041	-.0782	-.1135	-.1033	-.0255	-.0183	-.0229	.1283	.3218	.1672	.1781	-.1604
45.000		.1331	.1280	-.1735	-.1448	-.0864	-.0944	-.0081	.0093	-.0162	.1279				
90.000		.1299	.1280	-.1706	-.1582	-.1107	-.0403	-.0277	.0048	-.0185	.1394		.0038	.0311	
135.000		.1382	.1254	-.1710	-.1423	-.0877	-.0074	-.0242	-.0438	-.0508	.1385				
180.000	1.5871	.1763	.1778	-.0974	-.0813	-.1089	.0608	-.0183	-.0888	-.0557	.1270	.7024	.0000	-.0204	-.2268
225.000		.2132	.5428	-.0150	-.0409	-.1511	.0128	-.0052	-.0653	-.0497	.1605				

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RET547)

ALPHAL(4) = -.251 BETAL (7) = 8.348

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7260	.7290	.7360	.7370
PHI															
270.000		.0000	.8973	.2790	-.1195	-.1789	-.1010	-.0897	-.0774	-.0375	.1784	.8409	.5034	.7038	-.2927
315.000		.2027	.5653	-.0160	-.0356	-.1833	-.0764	.0033	-.0308	-.0256	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.1135	-.0850	.0932	.0172	.1818	.2265
45.000	.0900	-.0468			.1980	.1885
90.000	.0766	-.0322	.0000	-.0259	.2917	.2800
135.000	.0999	-.0395			.1258	.1497
180.000	.0977	-.1043	.1346	.0264	.0834	.0718
225.000	-.0572	-.1707			.0492	.0000
270.000	-.1191	-.1122	-.0405	-.0788	-.0538	-.0338
315.000	-.0901	-.1418			.0330	.1194

ALPHAL(5) = 1.889 BETAL (1) = .182

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7482	.3009	.2471	-.0860	-.0223	-.0539	-.1084	-.0179	.0128	.0096	.1639	.3527	.0705	.1434	-.1084
45.000		.2595	.2452	-.1267	-.0994	-.0331	-.0666	-.0483	.0308	.0265	.1480				
90.000		.2382	.2347	-.1321	-.1133	-.0975	-.0315	-.0600	.0178	.0265	.1451		.0508	.0721	
135.000		.2199	.1981	-.1427	-.1215	-.0598	-.0609	.0433	.0081	-.0025	.2258				
180.000	1.7482	.2087	.1583	-.1269	-.0722	-.0994	-.0612	.0821	.0077	-.0105	.2905	.5081	.0000	.2923	-.1248
225.000		.2182	.5235	-.0375	-.0874	-.2624	-.0170	.0188	-.0099	-.0341	.3753				
270.000		.0000	.9204	.8549	-.1382	-.2671	-.0108	.0093	-.0283	-.0344	.2883	.8038	.5766	.5423	-.2998
315.000		.3057	.6482	.0250	.0440	-.1988	-.0837	.0207	.0038	-.0108	.0000				

X/LS	.8102	.8681	.9120	.9130	.9344	.9565
PHI						
.000	.0349	-.1002	.0517	-.0290	.1241	.1690
45.000	.0896	-.0433			.1883	.1893
90.000	.0292	-.0218	.0000	-.0186	.2639	.3009
135.000	.2867	-.0687			.2323	.1978
180.000	.3130	-.0250	.2510	-.1179	.0571	.1619
225.000	.0218	-.1960			.1867	.0000
270.000	-.1221	-.0977	.0726	-.0730	-.0091	-.0177
315.000	-.0990	-.1203			-.0173	.0279

ARC87-019 IABI LVAP(ALLML SCALED) SRM BOOSTER (RETS47)

ALPHAL(6) = 3.454 BETAL (1) = -3.979

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.8170	.4143	.3352	-.0643	.0251	.0213	-.0600	-.0208	.0359	.0402	.1782	.3686	.0872	.0780	-.126
45.000		.3793	.3604	-.0748	-.0464	.0165	-.0148	-.0084	.0090	.0308	.0408				
90.000		.3289	.3365	-.0847	-.0648	-.0825	-.0363	-.0657	.0181	.0225	.1660		.0608	.0389	
135.000		.2884	.2515	-.1207	-.1113	-.0341	-.0407	.0039	.0158	.0241	.2360				
180.000	1.8170	.2432	.1598	-.1578	-.0663	-.0689	-.0917	.0960	.0216	.0158	.3191	.4937	.0000	.2244	-.0436
225.000		.2311	.4616	-.0508	-.1090	-.2773	-.0236	.0150	.0059	.0142	.3521				
270.000		.0000	.9320	.1943	-.1593	-.2485	.0061	.0839	.0209	.0139	.2373	.6282	.3781	.3480	-.2594
315.000		.3840	.6415	.0634	.1247	-.1267	-.1011	.0567	.0328	.0165	.0000				

X/LS	.9102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0812	-.0787	.0181	-.0482	.1892	.2680
45.000	.1468	-.0524			.4345	.4471
90.000	.1219	.0729	.0000	.0841	.2721	.2946
135.000	.2956	.0191			.3845	.3121
180.000	.4046	.0286	.3768	-.0722	.1018	.0288
225.000	-.0201	-.1565			-.1333	.0000
270.000	-.1103	-.0733	.0435	-.0542	-.0007	.0039
315.000	-.0840	-.1144			.0173	.0729

ALPHAL(6) = 3.440 BETAL (2) = .247

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7425	.3566	.3057	-.0625	.0012	-.0256	-.0805	-.0271	.0200	.0030	.1467	.3617	.1425	.1138	-.1461
45.000		.2805	.2745	-.1137	-.0857	-.0335	-.0657	-.0518	-.0015	.0134	.0057				
90.000		.2268	.2322	-.1290	-.1198	-.1328	-.0663	-.0957	.0210	.0160	.1375		.0390	.0164	
135.000		.2000	.1634	-.1556	-.1486	-.0588	-.0711	.0248	.0102	.0057	.2494				
180.000	1.7425	.1701	.1227	-.1394	-.1050	-.1157	-.0679	.0419	.0009	-.0144	.3245	.5338	.0000	.1253	-.0773
225.000		.1803	.4338	-.0693	-.1398	-.2906	-.0420	-.0005	-.0237	-.0195	.3728				
270.000		.0000	.8203	.2232	-.1758	-.2684	-.0040	.0691	.0124	-.0084	.2593	.6542	.3527	.2871	-.2690
315.000		.3350	.6306	.0518	.1122	-.1327	-.1071	.0469	.0271	-.0058	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0988	-.0778	.0882	-.0188	.1753	.2512
45.000	.1221	-.0427			.3307	.3583
90.000	.1001	.0177	.0000	.0184	.2145	.2088
135.000	.2874	-.0133			.2927	.2490
180.000	.2491	-.0193	.2756	-.0985	.0414	.1015

ARC97-019 IA81 LVAP(ALLHL SEALED) SRM BOOSTER (RETS47)

ALPHAL(6) = 3.440 BETAL (2) = .247

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	.0161	-.1470			-.0191	.0000
270.000	-.1347	-.0803	.0623	-.0387	.0211	.0185
315.000	-.0993	-.1160			.0645	.1148

ALPHAL(6) = 3.405 BETAL (3) = 3.705

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.6163	.2936	.2980	-.0585	-.0254	-.0551	-.0687	-.0040	-.0172	-.0255	.0127	.4201	.1830	.1913	-.1448
45.000		.1902	.1915	-.1466	-.1221	-.0826	-.0950	-.0801	-.0084	-.0268	.1339				
90.000		.1384	.1413	-.1647	-.1553	-.1474	-.0782	-.0314	.0144	-.0169	.1441		-.0160	-.0227	
135.000		.1145	.1063	-.1803	-.1702	-.0699	-.0567	.0235	-.0007	-.0220	.2210				
180.000	1.8163	.0932	.0868	-.1560	-.1198	-.1443	-.0381	.0147	-.0332	.0054	.2440	.5763	.0000	.0233	-.1346
225.000		.1209	.3913	-.0826	-.1642	-.2220	-.0539	.0112	-.0408	.0373	.3061				
270.000		.0000	.9144	.2687	-.1784	-.2151	-.0014	.0634	-.0195	.0156	.2609	.5072	.2618	.2012	-.2950
315.000		.3082	.4315	.0376	.0923	-.1300	-.0924	.0659	.0048	-.0195	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1304	-.0791	.1583	-.0051	.2140	.2911
45.000	.1180	-.0690			.2605	.2640
90.000	.0590	-.0010	.0000	.0088	.1536	.1574
135.000	.1653	-.0595			.1384	.1570
180.000	.1523	-.0643	.1406	-.0361	.0660	.0998
225.000	-.0406	-.1313			.1378	.0000
270.000	-.1114	-.0908	-.0105	-.0374	-.0010	.0149
315.000	-.0605	-.1171			.1258	.2122

ALPHAL(7) = 6.270 BETAL (1) = .290

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3832	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.7241	.4108	.3831	-.0142	.0282	.0041	-.0385	-.0145	.0243	.0025	.0174	.4092	.2513	.2767	-.1261
45.000		.3028	.2939	-.0982	-.0714	-.0338	-.0521	-.0872	-.0335	-.0202	.0194				
90.000		.2138	.2202	-.1354	-.1244	-.1531	-.1148	-.1275	-.0057	-.0230	.2122		.0085	-.0116	
135.000		.1783	.1418	-.1642	-.1632	-.0755	-.0971	-.0048	.0006	-.0014	.1956				
180.000	1.7241	.1356	.0774	-.1493	-.1304	-.1304	-.0685	.0353	-.0017	.0063	.3256	.4824	.0000	.0548	-.0691
225.000		.1410	.3464	-.1055	-.2008	-.3090	-.0511	-.0313	-.0188	.0404	.3854				

ARC97-019 IAB1 LVAP(ALLHL SEALED) SRM BOOSTER (RETS47)

ALPHAL(7) = 6.270 BETAL (1) = .290

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0000	.8873	.1975	-.2052	-.2734	-.0107	.0694	.0197	-.0109	.3520	.5424	.3302	.3149	-.2330
315.000		.4001	.5716	.0732	.1575	-.0786	-.0811	.0581	.0375	.0155	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1921	-.0617	.1593	.0288	.2120	.2802
45.000	.1284	-.0190			.2767	.3058
90.000	.1046	.0496	.0000	.0506	.1930	.2006
135.000	.2219	-.0051			.3235	.2918
180.000	.2289	-.0386	.2426	-.0773	.0393	.0791
225.000	.0107	-.1894			-.0369	.0000
270.000	-.1221	-.0689	.0506	-.0053	.0411	.0393
315.000	-.0073	-.1066			.1558	.1910

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT30) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.500 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = 55.000

BETAT (1) = .255 ALPHAT(1) = -7.065

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7389	.2167	.2627	.5598	.4583	.1480	.0000	-.0703	-.0993	-.1076	.0211	-.0809	.0200	.0482	.0198
30.000		.2379	.2591	.6387	.4674	.1480	-.0157	-.0673	-.0963	-.1040	.0158	-.0155	-.0566	-.0480	-.0631
60.000		.2418	.2466	.7017	.5166	.1822	.0018	-.0531	-.0838	-.0926	.0345	.1742	-.1495	-.1806	-.1445
90.000		.2540	.2224	.6090	.5824	.2365	.0152	-.0222	-.0592	-.0681	.2194	.5337	-.1543	-.1047	-.1033
120.000		.2645	.2346	.9429	.6769	.2958	.0600	.0194	-.0255	-.0400	.1371	.1636	.1526	.0429	.0795
135.000			.2522	1.0124	.7125	.3363	.0829	.0363	-.0136	-.0203	.1736	.1749	.1079	.2897	.1755
147.000		.2955	.2654	1.0473	.7536	.3576	.0930	.0479	.0033	-.0095	.1941	.0409	.2220	.2900	.1850
162.000			.2851	1.0754	.7775	.3839	.1144	.0694	.0083	.0036	.2194	.0176	.2360	.1005	.2067
180.000	1.7389	.3212	.3073	1.0789	.9084	.3775	.1087	.0824	.0214	.0099	.2298	.0224	.2637	.6726	.2305
198.000			.3321	1.0677	.8692	.4414	.1013	.0795	.0149	.0066	.2099	.0367	.2147	.1400	.3081
213.000		.2773	.4034	.9004	.0000	.1982	.0312	.0895	.0140	.0075	.1088	.1353	.2318	-.1035	.2907
225.000			.5166	1.0351	.7280	.4049	.1174	.0398	.0075	.0039	.1659	.1714	.0996	.2628	.2111
240.000		.2212	.3182	.9950	.8063	.3054	.0758	.0264	-.0233	-.0263	.1501	.1630	.1766	.0956	.1038
270.000		2164	.2464	.8451	.6051	.2511	.0274	-.0095	-.0603	-.0615	.1451	.7899	-.1307	-.1245	-.0569
300.000		.2218	.2508	.7357	.5221	.1982	-.0091	-.0397	-.0849	-.0872	.0449	.1454	-.0870	-.1709	-.1339
330.000		.2176	.2647	.6298	.4931	.0000	-.0362	-.0631	-.1028	-.0972	.0223	.0000		-.0560	-.0600

X/LT	.5628	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0282	-.0627	-.0451	-.0259	-.0121	-.1146
30.000	-.0653	-.0072	-.0582	-.0194	-.0198	-.1233
60.000	-.1135	-.0524	-.0194	-.0106	0494	-.1194
90.000	.0241	-.0170	-.0688	-.0224	.5171	-.1209
120.000	.0597	.1264	.0319	.0474	.2859	-.1212
135.000	.0220	.0562	-.0013	.1996	.2424	
147.000	.0948	.0150	.0331	.1713	.2904	-.1491
162.000	.1555	.0666	-.0073	.1778	.4998	
180.000	.1523	.0793	-.0221	.1553	.5487	-.1420
198.000	.0495	.1196	.0592	.1239	.3775	
213.000	.0732	.0399	.0432	.1405	.1260	-.1440
225.000	.0892	.1072	.0151	.1457	.1940	
240.000	.1123	.1045	.0500	.0586	.2349	-.1423
270.000	.0293	-.0007	-.0579	-.0219	.4315	-.1280
300.000	-.1199	-.0724	-.0310	-.0204	.0300	-.1274
330.000	.0000	-.0155	-.0552	-.0371	-.0051	-.1286

ARC97-019 IA8I LVAP(ALL&L SEALED) EXTERNAL TANK (RETT30)

BETAF (1) = .242 ALPHAT(2) = -4.874

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7398	.2198	.2795	.6835	.5139	.1658	.0000	-.0545	-.0843	-.0928	.0448	-.0692	.0054	.0537	.0288
30.000		.2397	.2715	.7046	.5148	.1735	-.0085	-.0500	-.0819	-.0923	.0434	-.0060	-.0368	-.0290	-.0398
60.000		.2557	.2691	.7476	.5510	.1954	.0061	-.0388	-. 725	-.0822	.0614	.1816	-.1294	-.1690	-.1377
90.000		.2646	.2545	.8155	.6019	.2307	.0199	-.0179	-.0546	-.0638	.2368	.5463	-.1810	-.1199	-.1178
120.000		.2786	.2548	.8964	.6607	.2773	.0480	.0072	-.0322	-.0448	.1249	.1507	.1030	-.0119	.0458
135.000			.2550	.9561	.6812	.2998	.0686	.0229	-.0243	-.0350	.1503	.1493	.0789	.2575	.1529
147.000		.2902	.2626	.9988	.7107	.3132	.0751	.0270	-.0160	-.0249	.1654	.0469	.1950	.2716	.1692
162.000			.2734	1.0320	.7230	.3289	.0810	.0458	-.0087	-.0180	.1825	-.0035	.2207	.1346	.1308
180.000	1.7399	.2961	.2846	1.0335	.7766	.3237	.0789	.0529	-.0001	-.0139	.1881	.0018	.2054	.6565	.2108
198.000			.3019	1.0247	.8433	.3808	.0772	.0535	-.0018	-.0136	.1824	.1154	.1843	.1631	.3031
213.000		.2572	.3437	.9023	.0000	.1604	.0149	.0711	-.0019	-.0130	.0856	.1193	.1954	-.1098	.2545
225.000			.4720	.9968	.7725	.3845	.0967	.0270	-.0061	-.0082	.1521	.1478	.0825	.2495	.1909
240.000		.2005	.3266	.9398	.7508	.2811	.0633	.0181	-.0293	-.0344	.1400	.1469	.1213	.0320	.0581
270.000		.2038	.2896	.8667	.6198	.2409	.0276	-.0028	-.0552	-.0590	.1503	.8041	-. 502	-.1356	-.0890
300.000		.2177	.2884	.7941	.5578	.2152	.0022	-.0257	-.0727	-.0777	.0717	.1445	-.0508	-.1520	-.1236
330.000		.2216	.2863	.7102	.5357	.0000	-.0140	-.0434	-.0872	-.0836	.0499	.0000		-.0266	-.0433

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0232	-.0564	-.0393	-.0278	-.0130	-.1193
30.000	-.0544	-.0413	-.0496	-.0133	-.0202	-.1314
60.000	-.0602	-.0801	-.0251	-.0083	.0910	-.1255
90.000	-.0062	-.0248	-.0508	-.0237	.5882	-.1255
120.000	.0037	.0989	.0200	.0338	.3[illegible]	-.1258
135.000	-.0039	.0200	-.0124	.2116	.2158	
147.000	.0767	-.0175	.0130	.1747	.2593	-.1542
162.000	.1219	.0552	-.0278	.1629	.4125	
180.000	.1240	.0502	-.0620	.1264	.4494	-.1568
198.000	.0873	.1821	.0273	.1098	.2920	
213.000	-.0083	.0[illegible]1	.0117	.1207	.1344	-.1098
225.000	.0402	.0879	.0005	.1315	.1820	
240.000	.0454	.0850	.0312	.0440	.2180	-.1589
270.000	-.0053	-.0054	-.0720	-.0119	.5204	-.1352
300.000	-.0620	-.0842	-.0175	-.0092	.0484	-.1338
330.000	.0000	-.0234	-.0413	-.0345	-.0108	-.1378

ARC97-018 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT30)

BETAT (1) = .208 ALPHAT(3) = -.420

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4446	.4987
PHI															
.000	1.7510	.1898	.3421	.8615	.6169	.2448	.0000	-.0104	-.0498	-.0811	.1068	-.0422	-.0094	.0730	.0800
30.000		.2009	.3430	.8487	.6053	.2397	.0342	-.0142	-.0508	-.0829	.0881	-.0128	.0150	.0039	.0048
60.000		.2752	.3039	.8484	.6131	.2400	.0350	-.0151	-.0525	-.0820	.0972	.1431	-.0858	-.1095	-.1028
90.000		.2957	.3039	.8498	.6198	.2403	.0224	-.0139	-.0505	-.0808	.2335	.5878	-.1824	-.1433	-.0515
120.000		.2948	.3031	.8534	.6198	.2388	.0291	-.0127	-.0516	-.0826	.1014	.1442	.0112	-.0894	-.0596
135.000			.3013	.8761	.6140	.2550	.0282	-.0089	-.0476	-.0590	.1084	.0984	.0088	.1098	.0849
147.000		.2858	.3004	.8839	.6273	.2501	.0347	-.0086	-.0496	-.0572	.1102	.0482	.1374	.2494	.1148
162.000			.3081	.8839	.6256	.2448	.0247	-.0029	-.0455	-.0581	.1157	-.0282	.1625	.2098	.1012
180.000	1.7510	.2628	.3151	.8778	.6311	.2571	.0268	-.0012	-.0409	-.0543	.1184	.0951	.1436	.5587	.1766
198.000			.3381	.8775	.7905	.2963	.0265	.0076	-.0406	-.0540	.0948	.0904	.1388	.1456	.3214
213.000		.2244	.3486	.8458	.0000	.1222	-.0121	.0242	-.0324	-.0493	.0382	.1157	.1603	-.1028	.2051
225.000			.4417	.8920	.7758	.2968	.0525	-.0023	-.0331	-.0369	.0752	.1007	.1001	.1131	.1638
240.000		.2438	.3439	.8943	.6317	.2562	.0285	.0053	-.0528	-.0513	.1193	.1310	.0296	-.0518	-.0439
270.000		.2717	.3410	.9103	.6378	.2464	.0361	-.0032	-.0552	-.0555	.1604	.8463	-.1701	-.1255	-.0666
300.000		.2737	.3425	.8894	.6308	.2547	.0317	-.0035	-.0546	-.0570	.1116	.1377	.0284	-.0863	-.0912
330.000		.2450	.3451	.9807	.6272	.0000	.0294	-.0055	-.0549	-.0554	.1064	.0000		-.0033	.0056

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0177	-.0172	-.0303	-.0047	-.0164	-.1247
30.000	-.0077	-.0285	-.0133	-.0085	-.0146	-.1277
60.000	-.0045	.0241	-.0168	-.0094	.1551	-.1203
90.000	.0114	-.0581	-.0692	-.0474	.6020	-.1206
120.000	-.0031	.0519	.0051	.0312	.3197	-.1268
135.000	-.0077	-.0209	-.0244	.2123	.2080	
147.000	.0689	-.0446	-.0262	.1624	.2216	-.1512
162.000	.0770	.0186	-.0678	.1381	.2860	
180.000	.0819	-.0016	-.0938	.1095	.2892	-.1523
198.000	.0574	.0914	-.0117	.0996	.1808	
213.000	-.0873	-.0420	-.0281	.1130	.1293	-.1465
225.000	.0070	.0189	-.0223	.1385	.1695	
240.000	.0123	.0455	.0075	.0374	.2059	-.1514
270.000	.0212	-.0437	-.0836	-.0403	.5272	-.1309
300.000	-.0018	.0265	-.0155	-.0137	.1474	-.1291
330.000	.0000	-.0358	-.0018	-.0241	.0018	-.1330

ARC87-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT30)

DETAT (1) = .208 ALPHAT(4) = 4.037

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7498	.1451	.3878	1.0267	.7346	.3335	.0000	.0369	-.0130	-.0225	.1775	-.0070	.0140	.0936	.0903
30.000		.1281	.6415	.9684	.7037	.3136	.0777	.0258	-.0181	-.0316	.1591	-.0014	.0849	.0460	.0454
60.000		.1888	.3429	.8885	.6546	.2758	.0563	.0060	-.0362	-.0478	.1169	.1453	.0817	-.0249	-.0614
90.000		.2527	.2726	.8254	.6045	.2348	.0217	-.0182	-.0575	-.0693	.1840	.6179	-.1681	-.1149	-.1327
120.000		.2793	.2952	.7554	.5539	.1936	.0025	-.0322	-.0705	-.0855	.0583	.1436	-.0660	-.1419	-.1182
135.000			.2963	.7427	.5273	.1881	-.0093	-.0451	-.0785	-.0893	.0495	.0591	.0055	-.0034	.0280
147.000		.2738	.2966	.7302	.5296	.1870	-.0109	-.0448	-.0802	-.0949	.0440	.0706	.1105	.2071	.0822
162.000			.2997	.7122	.5204	.1575	-.0200	-.0502	-.0837	-.0958	.0463	.0571	.1090	.1888	.1196
180.000	1.7498	.2623	.3107	.6988	.5415	.1777	-.0200	-.0455	-.0793	-.0943	.0463	.0544	.1444	.4745	.1366
198.000			.3072	.7037	.5802	.2193	-.0235	-.0380	-.0785	-.0920	.0475	.0275	.1699	.1322	.2345
213.000		.2652	.3119	.7026	.0000	.0771	-.0483	-.0219	-.0700	-.0828	-.0014	.0301	.1331	-.0966	.1743
225.000			.3642	.7578	.6852	.2138	-.0060	-.0350	-.0649	-.0699	.0519	.0410	.0108	.0162	.1109
240.000		.2676	.3255	.8139	.5508	.2354	.0025	-.0269	-.0737	-.0775	.0768	.1292	-.0455	-.1222	-.1104
270.000		.2231	.3287	.8807	.6181	.2553	.0314	-.0033	-.0557	-.0596	.1415	.8331	-.1407	-.1298	-.1173
300.000		.1299	.4118	.9148	.6774	.2945	.0614	.0212	-.0345	-.0404	.1339	.1524	.1392	-.0160	-.0640
330.000		.1097	.6950	1.0014	.7188	.0000	.0763	.0352	-.0225	-.0196	.1658	.0000		.0385	.0298

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0569	.0278	-.0101	.0175	.0087	-.1152
30.000	.0288	.0099	.0127	.0152	-.0007	-.1225
60.000	-.0308	.0462	.0392	.0070	.1255	-.1175
90.000	.0800	.0952	.0276	-.0110	.4521	-.1193
120.000	.0139	.0308	-.0045	.0560	.2307	-.1248
135.000	-.0187	-.0255	-.0390	.2061	.2387	
147.000	.0266	-.0620	-.0346	.1784	.2289	-.1416
162.000	.0402	-.0121	-.0778	.1997	.2611	
180.000	.0459	.0063	-.1099	.1368	.2310	-.1418
198.000	.0442	.0634	-.0215	.1190	.1847	
213.000	-.0853	-.0489	-.0329	.1333	.1479	-.1354
225.000	-.0207	.0138	-.0262	.1284	.1862	
240.000	.0257	.0293	.0000	.0512	.2251	-.1515
270.000	.0840	.0906	.0199	-.0060	.3961	-.1225
300.000	-.0268	.0500	.0400	.0010	.1367	-.1210
330.000	.0000	.0089	.0187	.0043	.0089	-.1231

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT30)

BETAT (1) = .224 ALPHAT(61 = 8.550

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2021	.3362	.3904	.4445	.4987
PHI															
.000	1.7433	.2034	.6029	1.1895	.8585	.4311	.0000	.1003	.0425	.0260	.2606	.0438	.0600	.1161	.1341
30.000		.1210	.5654	1.1057	.8093	.4001	.1326	.0768	.0262	.0093	.2245	.0336	.1140	.1060	.0946
60.000		.1140	.4578	.9647	.7002	.3184	.0850	.0312	-.0161	-.0315	.1481	.1399	.2461	.0569	.0327
90.000		.1146	.2672	.7821	.5951	.2252	.0147	-.0230	-.0616	-.0758	.1674	.5688	-.1742	-.1093	-.0943
120.000		.1801	.1603	.6504	.4833	.1521	-.0288	-.0611	-.0926	-.1072	.0059	.1187	-.1444	-.1729	-.0946
135.000			.2165	.6267	.4422	.1358	-.0434	-.0736	-.1001	-.1121	-.0031	.0230	-.0266	-.0824	-.0390
147.000		.2209	.2346	.6022	.4243	.1220	-.0506	-.0762	-.1021	-.1151	-.0016	.0309	.0714	.1592	.0284
162.000			.2489	.5481	.4065	.1034	-.0582	-.0798	-.1068	-.1177	.0068	.0312	.0621	.0508	.0935
180.000	1.7433	.2323	.2569	.4615	.4660	.1140	-.0576	-.0769	-.1068	-.1195	.0094	.0265	.1598	.3286	.0966
198.000			.2572	.5022	.3630	.1590	-.0570	-.0764	-.1024	-.1209	-.0031	.0285	.1095	.0499	.1960
213.000		.2436	.2616	.5013	.0000	.0128	-.0863	-.0569	-.0978	-.1171	-.0334	.0128	.0777	-.0899	.1257
225.000			.3069	.6479	.5198	.1404	-.0370	-.0569	-.0931	-.1015	.3039	-.0038	-.0570	-.0931	.0316
240.000		.2247	.2766	.6899	.4715	.1639	-.0245	-.0453	-.0928	-.0984	.0240	.1222	-.1269	-.1611	-.1167
270.000		.1189	.2887	.8291	.5984	.2390	.0289	-.0094	-.0640	-.0670	.1359	.7482	-.0807	-.1052	-.0882
300.000		.0927	.5227	.9877	.7189	.3385	.0878	.0451	-.0171	-.0221	.1685	.2027	.2375	.0650	.0048
330.000		.1131	.5663	1.1255	.8261	.0000	.1349	.0885	.0210	.0217	.2347	.0000		.1036	.0939

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.1060	.0833	.0431	.0485	.0414	-.1123
30.000	.0776	.0578	.0364	.0497	.0303	-.1155
60.000	.0411	.0495	.0649	.0439	.1769	-.1033
90.000	-.0062	.0521	.0024	-.0511	.6504	-.1015
120.000	-.0048	.0065	-.0031	.0836	.2502	-.1179
135.000	-.0375	-.0459	-.0266	.2444	.2695	
147.000	-.0074	-.0754	-.0106	.2270	.2590	-.1499
162.000	.0190	-.0563	-.0187	.2134	.2660	
180.000	.0113	-.0539	.0045	.1981	.2534	-.1412
198.000	-.0206	.0559	-.0056	.1752	.2179	
213.000	-.0937	-.0746	.0143	.1824	.1907	-.1295
225.000	-.0398	-.0018	-.0094	.1423	.2191	
240.000	.0073	-.0040	.0030	.1036	.2247	-.1222
270.000	-.0458	.0853	.0175	-.0512	.5492	-.1123
300.000	.0337	.0451	.0778	.0373	.1904	-.1148
330.000	.0000	.0579	.0483	.0449	.0445	-.1179

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (NETT30)

BETAT (1) = .229 ALPHAT(6) = 10.744

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7403	.2572	.7079	1.2211	.9181	.4882	.0000	.1328	.0735	.0553	.3027	.0892	.0894	.1326	.1589
30.000		.1535	.6567	1.1638	.8609	.4384	.1646	.1037	.0475	.0327	.2570	.0547	.1302	.1320	.1232
60.000		.1069	.6217	.9676	.7202	.3357	.0973	.0431	-.0052	-.0235	.1541	.1969	.3076	.1063	.0895
90.000		.0970	.2223	.7685	.5640	.2200	.0083	-.0280	-.0555	-.0789	.1602	.5599	-.1492	-.0731	-.0670
120.000		.1185	.0944	.5905	.4428	.1242	-.0463	-.0730	-.1017	-.1146	-.0153	.0679	-.1769	-.1749	-.0809
135.000			.1389	.5741	.3982	.1024	-.0576	-.0846	-.1118	-.1252	-.0208	.0148	-.0598	-.1159	-.0748
147.000		.1707	.1748	.5440	.3810	.0941	-.0637	-.0878	-.1118	-.1258	-.0100	.0207	.0775	.1158	.0207
162.000			.2175	.4793	.3569	.0701	-.0721	-.0889	-.1135	-.1243	-.0068	.0215	.0658	.1109	.0461
180.000	1.7403	.1923	.2244	.3865	.4364	.0852	-.0695	-.0849	-.1132	-.1272	-.0010	.0308	.1789	.2729	.0889
198.000			.2261	.4475	.3144	.1274	-.0663	-.0918	-.1095	-.1234	-.0156	.0274	.1068	.0206	.1197
213.000		.2199	.2337	.4510	.0000	-.0202	-.1133	-.0710	-.1118	-.1278	-.0503	.0215	.0652	-.0904	.0955
225.000			.2894	.5918	.4663	.1205	-.0541	-.0712	-.1070	-.1126	-.0009	-.0184	-.0965	-.1456	-.0196
240.000		.1454	.2348	.6424	.4333	.1377	-.0393	-.0623	-.1041	-.1053	.0057	.0839	-.1677	-.1612	-.1209
270.000		.0836	.2256	.8156	.5829	.2311	.0265	-.0102	-.0636	-.0680	.1401	.7152	-.0517	-.0837	-.0624
300.000		.0871	.6269	.9963	.7461	.3595	.1026	.0582	-.0048	-.0115	.1759	.2036	.2758	.1094	.0512
330.000		.1541	.6593	1.1903	.8749	.0000	.1658	.1144	.0471	.0436	.2695	.0000		.1373	.1214

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.1297	.1090	.0779	.0767	.0644	-.1083
30.000	.1072	.0841	.0669	.0706	.0535	-.1147
60.000	.0755	.0746	.0788	.0677	.2017	-.1077
90.000	-.0515	-.0016	-.0271	.0422	.7014	-.1083
120.000	-.0143	.0007	-.0135	.0892	.2289	-.1100
135.000	-.0166	-.0485	-.0350	.2324	.2820	
147.000	-.0356	-.0628	.0051	.2147	.2673	-.1421
162.000	-.0154	-.0675	.0379	.2008	.2635	
180.000	-.0276	-.0837	.0301	.1956	.2213	-.1386
198.000	-.0385	.0155	.0046	.1790	.1896	
213.000	-.1118	-.0704	.0205	.1593	.1735	-.1333
225.000	-.0726	-.0060	-.0044	.1324	.1964	
240.000	.0175	.0007	-.0033	.1143	.2043	-.1144
270.000	-.0596	.0373	-.0270	.0269	.6014	-.1155
300.000	.0671	.0738	.0889	.0615	.2453	-.1190
330.000	.0000	.0846	.0747	.0662	.0695	-.1138

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT31) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.200 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPOBRK = 55.000

BETAT(1) = -.138 ALPHAT(1) = -7.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6922	.2639	.3108	.5944	.4706	.1332	.0000	-.0887	-.1206	-.1298	.0147	-.0926	.0362	.0436	-.0040
30.000		.2977	.3073	.6665	.4957	.1475	-.0369	-.0791	-.1138	-.1227	.0219	-.0163	-.0468	-.0930	-.1080
60.000		.3045	.2998	.7410	.5340	.1829	-.0170	-.0616	-.1002	-.1095	.0367	.2151	-.2160	-.2387	-.1417
90.000		.3152	.2741	.8693	.6112	.2439	.0154	-.0272	-.0705	-.0786	.3370	.4389	-.2044	-.1551	-.0906
120.000		.3330	.2804	.9764	.7077	.3020	.0670	.0181	-.0340	-.0447	.1690	.2277	.1175	.0547	.0596
135.000			.2952	1.0327	.7416	.3428	.0875	.0345	-.0166	-.0243	.1970	.2071	.1615	.2828	.1351
147.000		.3638	.3092	1.0653	.7829	.3725	.0992	.0511	-.0013	-.0174	.2171	.1211	.2642	.3177	.1484
162.000			.3255	1.0855	.8550	.4003	.1183	.0619	-.0024	-.0042	.2395	.0090	.3185	.1769	.1316
180.000	1.6922	.3934	.3369	1.0887	.9065	.3517	.1089	.0799	.0011	-.0026	.2418	.0117	.3109	.6639	.2105
198.000			.3435	1.0664	.8285	.4360	.0896	.0676	-.0062	-.0147	.2217	.0576	.2657	.1320	.2596
213.000		.3514	.4038	.8840	.0000	.1548	.0306	.0747	-.0128	-.0139	.1083	.1169	.2736	-.1311	.2750
225.000			.5085	1.0281	.6894	.3587	.0973	.0153	-.0252	-.0191	.1586	.1917	.1301	.2592	.1440
240.000		.2864	.3280	.9721	.7463	.2888	.0410	.0028	- 0538	-.0494	.1383	.1777	.1571	.1090	.0933
270.000		.2837	.2970	.8591	.6095	.2326	.0039	-.0395	-.0861	-.0880	.2096	.6323	-.1834	-.1808	-.0553
300.000		.2815	.2994	.7343	.5228	.1675	-.0346	-.0689	-.1153	-.1125	.0364	.1722	-.1347	-.2286	-.1523
330.000		.2626	.3144	.6062	.4978	.0000	-.0559	-.0869	-.1307	-.1261	.0197	.0000		-.0678	-.0786

X/LT	.5520	.6340	.7423	.8508	.9264	.9838
PHI						
.000	-.0782	-.1061	-.0531	-.0108	-.0101	-.1428
30.000	-.0819	-.0321	-.0468	-.0277	-.0044	-.1514
60.000	-.1222	-.0470	-.0129	-.0189	.0707	-.1522
90.000	.0044	-.0882	-.0559	-.0170	.5081	-.1533
120.000	.1149	.1118	.0172	.0274	.2735	-.1508
135.000	.0330	.0689	-.0066	.2157	.2879	
147.000	.0979	.0399	.0623	.1434	.3006	-.1733
162.000	.1306	.0453	.0244	.0411	.4868	
180.000	.1093	.0453	.1052	.1344	.4179	-.1788
198.000	.0144	.0524	.0569	.0921	.4292	
213.000	.0235	.0254	.0384	.0913	.0754	-.1923
225.000	.1041	.0902	-.0080	.1058	.1712	
240.000	.1457	.0708	.0250	.0379	.3880	-.1826
270.000	-.0059	-.0687	-.0249	-.0311	.4093	-.1549
300.000	-.1403	-.0854	-.0091	-.0264	.0864	-.1549
330.000	.0000	-.0340	-.0550	-.0375	.0062	-.1593

ARC87-019 IA81 LVAP(ALLHL SCALED) EXTERNAL TANK (RETT31)

RETAT (1) = -.155 ALPHAT(2) = -4.949

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2564	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6973	.2745	.3370	.6969	.5320	.1662	.0000	-.0699	-.1070	-.1153	.0442	-.0854	.0350	.0528	.0099
30.000		.2978	.3233	.7271	.5426	.1813	-.0196	-.0629	-.1026	-.1081	.0552	.0064	-.0514	-.0487	-.0682
60.000		.3102	.3176	.7792	.5760	.2061	-.0007	-.0476	-.0899	-.0968	.0683	.2647	-.1897	-.2235	-.1506
90.000		.3195	.3113	.8620	.6281	.2501	.0179	-.0228	-.0697	-.0746	.3609	.4427	-.2330	-.1565	-.1213
120.000		.3373	.3209	.9657	.6900	.2859	.0541	.0080	-.0430	-.0542	.1584	.2411	.0608	-.0098	.0172
135.000			.3285	1.0227	.7088	.3107	.0697	.0181	-.0365	-.0418	.1735	.1771	.0801	.2812	.1149
147.000		.3516	.3332	1.0436	.7351	.3304	.0705	.0249	-.0251	-.0302	.1842	.1196	.2279	.3042	.1365
162.000			.3443	1.0680	.7475	.3504	.0847	.0334	-.0293	-.0288	.2018	-.0103	.2363	.1374	.1138
180.000	1.6973	.3603	.3556	1.0518	.8853	.3143	.0718	.0432	-.0289	-.0254	.2018	-.0058	.2637	.8441	.1751
198.000			.3863	1.0395	.8129	.3854	.0804	.0353	-.0262	-.0305	.1762	.1297	.8171	.1460	.2499
213.000		.3162	.4174	.8992	.0000	.1357	-.0184	.0503	-.0332	-.0365	.0752	.1406	.2395	-.1323	.2287
225.000			.5091	1.0040	.7073	.3383	.0759	-.0028	-.0383	-.0352	.1442	.1733	.1181	.2404	.1262
240.000		.2740	.3622	.9594	.7675	.2609	.0309	-.0098	-.0614	-.0609	.1412	.1769	.0930	.0475	.0500
270.000		.2743	.3413	.8551	.6130	.2236	.0169	-.0335	-.0894	-.0803	.2324	.6505	-.2248	-.1788	-.1021
300.000		.2732	.3394	.7759	.5652	.1940	-.0179	-.0558	-.1073	-.1046	.0697	.2062	-.0988	-.2019	-.1487
330.000		.2691	.3313	.6805	.5467	.0000	-.0350	-.0697	-.1183	-.1109	.0434	.0000		-.0335	-.0507

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0580	-.0898	-.0391	-.0159	-.0110	-.1454
30.000	-.0836	-.0186	-.0481	-.0211	-.0163	-.1542
60.000	-.0361	[illegible]	-.0098	-.0164	.1217	-.1533
90.000	-.0153	-.0771	-.0235	-.0088	.6096	-.1536
120.000	.0962	.0987	-.0016	.0210	.2945	-.1547
135.000	-.0199	.0449	-.0298	[illegible]	.2829	
147.000	.0789	.0085	.0309	.1351	[illegible]	-.1808
162.000	.1051	.0180	[illegible]	.0374	[illegible]	
180.000	.0870	.0068	[illegible]	.1310	.3999	-.1860
198.000	.0276	.0615	.0240	.0933	.3629	
213.000	-.0453	[illegible]	.0147	.0944	.0856	-.1937
225.000	.0457	.0631	-.0350	.0936	.1592	
240.000	.1232	.0601	-.0033	.0387	.1730	-.1547
270.000	-.0177	-.0760	-.0202	-.0165	.4793	-.1544
300.000	-.0863	-.1006	-.0148	-.0237	.1294	-.1569
330.000	.0000	-.0265	-.0560	-.0276	-.0139	-.1618

ARC87-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT31)

BETAT (1) = -.190 ALPHAT(3) = -.488

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.28 1	.3362	.3904	.4445	.4987
PHI															
.000	1.6885	.2435	.3790	.8651	.6324	.2444	.0000	-.0284	-.0729	-.0819	.1152	-.0549	.0137	.0777	.0455
30.000		.2805	.3522	.8673	.6372	.2508	.0239	-.0223	-.0863	-.0759	.1152	.0284	-.0099	-.0067	-.0082
60.000		.3237	.3409	.8751	.6410	.2524	.0306	-.0214	-.0855	-.0734	.1245	.2923	-.1106	-.1445	-.1284
90.000		.3333	.3387	.8822	.6502	.2540	.0254	-.0193	-.0644	-.0726	.3687	.4804	-.2350	-.1962	-.0309
120.000		.3338	.3415	.8732	.6529	.2616	.0240	-.0185	-.0650	-.0717	.1297	.2780	-.0398	-.1080	-.0490
135.000			.3404	.8830	.6440	.2648	.0289	-.0155	-.0652	-.0759	.1223	.1055	.0373	.1367	.0563
147.000		.3256	.3420	.8879	.6513	.2524	.0246	-.0217	-.0669	-.0712	.1238	.1096	.1771	.2622	.1145
162.000			.3486	.8857	.6470	.2573	.0205	-.0160	-.0660	-.0751	.1297	.0850	.1920	.0845	.0888
180.000	1.6885	.3100	.3545	.8800	.6885	.2390	.0093	-.0141	-.0644	-.0742	.1278	.0896	.2070	.5293	.1470
198.000			.3727	.8778	.7555	.2969	.0068	-.0168	-.0636	-.0759	.0913	.0778	.1740	.1043	.2618
213.000		.2818	.3901	.8366	.0000	.0931	-.0495	-.0013	-.0655	-.0762	.0284	.1064	.1778	-.1257	.1857
225.000			.4710	.9829	.7185	.2858	.0298	-.0370	-.0665	-.0640	.0818	.1206	.0866	.1778	.1077
240.000		.2832	.3936	.8802	.6880	.2255	.0120	-.0329	-.0866	-.0806	.1171	.1807	-.0054	-.0645	-.0358
270.000		.3133	.3828	.8848	.6305	.2193	.0047	-.0348	-.0841	-.0841	.2625	.6649	-.2279	-.1579	-.0350
300.000		.3226	.3828	.8677	.6294	.2462	.0050	-.0312	-.0836	-.0844	.1127	.1999	-.0163	-.1267	-.1086
330.000		.2813	.3868	.8644	.6320	.0000	.0120	-.0282	-.0833	-.0806	.1050	.0000		-.0025	.0037

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0117	-.0474	-.0173	-.0115	-.0133	-.1414
30.000	-.0349	-.0058	-.0233	-.0107	-.0091	-.1518
60.000	.0175	.0080	-.0159	-.0129	.1747	-.1433
90.000	-.0387	-.1189	-.0648	-.0290	.6940	-.1436
120.000	.0485	.0475	-.0219	.0302	.3340	-.1564
135.000	-.0409	-.0030	-.0394	.2625	.2866	
147.000	.0353	-.0342	-.0173	.1597	.2590	-.1798
162.000	.0423	-.0263	-.0320	.1821	.3530	
180.000	.0320	-.0539	-.0074	.1556	.3139	-.1831
198.000	.0202	.0497	-.0205	.1125	.2659	
213.000	-.1122	-.0610	-.0140	.1172	.1229	-.1809
225.000	-.0163	.0202	-.0519	.1011	.1711	
240.000	.0842	.0270	-.0260	.0515	.1764	-.1521
270.000	-.0347	-.1012	-.0366	-.0113	.5398	-.1479
300.000	.0258	.0117	-.0211	-.0188	.1711	-.1482
330.000	.0000	-.0167	-.0241	-.0213	.0161	-.1553

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ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT31)

BETAT (1) = -.187 ALPHAT(4) = 4.055

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6904	.1734	.4445	1.0266	.7407	.3306	.0000	.0267	-.0280	-.0366	.1909	-.0160	.0175	.1095	.0911
30.000		.1674	.6282	1.0120	.7291	.3300	.0731	.0234	-.0302	-.0388	.1808	.0215	.0658	.0356	.0357
60.000		.2662	.3571	.9456	.6864	.2958	.0567	.0032	-.0474	-.0547	.1506	.2098	.0052	-.0557	-.0787
90.000		.3185	.3240	.8592	.6358	.2489	.0182	-.0243	-.0697	-.0762	.3186	.5056	-.2392	-.1627	-.0639
120.000		.3262	.3358	.7866	.5842	.2052	-.0066	-.0489	-.0921	-.0980	.0799	.2171	-.1160	-.1839	-.0387
135.000			.3393	.7673	.5614	.2049	-.0181	-.0546	-.0951	-.1040	.0670	.0416	.0288	-.0165	-.0200
147.000		.3158	.3388	.7559	.5579	.1871	-.0181	-.0587	-.1016	-.1090	.0627	.0754	.1351	.1802	.0495
162.000			.3381	.7366	.5439	.1664	-.0317	-.0651	-.1043	-.1142	.0618	.0724	.1620	.1527	.0660
180.000	1.6904	.2988	.3655	.7200	.5944	.1615	-.0363	-.0635	-.1049	-.1151	.0520	.0699	.1829	.3372	.1292
198.000			.3446	.7056	.5517	.2152	-.0374	-.0621	-.1052	-.1175	.0440	.0649	.1546	.0870	.2485
213.000		.2991	.3558	.7013	.0000	.0513	-.0330	-.0460	-.1038	-.1109	-.0138	.0819	.1541	-.1181	.1317
225.000			.4003	.7421	.6823	.2138	-.0238	-.0662	-.0966	-.0930	.0383	.0614	.0123	.0473	.0578
240.000		.3084	.3655	.7894	.5668	.2071	-.0257	-.0561	-.1068	-.1040	.0780	.1760	-.0921	-.1515	-.0257
270.000		.2985	.3723	.8621	.6139	.2230	.0078	-.0351	-.0911	-.0881	.2227	.6704	-.2094	-.1818	-.0639
300.000		.2180	.4115	.9324	.6642	.2775	.0351	-.0087	-.0666	-.0688	.1306	.1801	.1066	-.0430	-.0736
330.000		.1531	.5089	1.0118	.7167	.0000	.0610	.0148	-.0456	-.0420	.1673	.0000		.0365	.0284

X/LT	.5528	.6340	.7423	.8506	.9584	.9838
PHI						
.000	.0359	.0052	-.0055	.0198	.0011	-.1390
30.000	.0079	-.0081	.0166	.0124	.0033	-.1431
60.000	-.0226	.0637	.0245	.0015	.1491	-.1442
90.000	.1053	.0589	.0122	.0097	.3627	-.1480
120.000	.0227	.0269	-.0009	.0598	.2765	-.1403
135.000	.0195	-.0134	-.0192	.2230	.3314	
147.000	.0006	-.0344	.0046	.2102	.3279	-.1658
162.000	-.0137	-.0503	.0179	.1985	.3434	
180.000	-.0070	-.0854	.0288	.1859	.2444	-.1795
198.000	.0111	.0275	-.0050	.1715	.2069	
213.000	-.1344	-.0751	.0043	.1753	.1587	-.1752
225.000	-.0032	-.0020	-.0322	.1515	.1956	
240.000	.0386	.0078	-.0145	.0893	.2544	-.1516
270.000	.1288	.0557	-.0080	.0730	.3924	-.1431
300.000	-.0240	.0711	.0187	-.0171	.1562	-.1406
330.000	.0000	-.0126	.0146	-.0031	.0074	-.1477

ARC97-019 IABI LVAP(ALLML SEALED) EXTERNAL TANK (RETT31)

BETAT (1) = -.160 ALPHAT(5) = 8.627

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.7022	.1888	.6787	1.1888	.8658	.4399	.0000	.0893	.0248	.0170	.2775	.0381	.0577	.1424	.1425
30.000		.1271	.6485	1.1050	.8276	.4219	.1324	.0710	.0158	.0054	.2525	.0419	.1308	.1002	.0880
60.000		.1210	.4820	.9675	.7232	.3374	.0825	.0233	-.0262	-.0384	.1737	.2209	.1398	.0281	.0178
90.000		.1468	.3087	.8289	.6056	.2385	.0068	-.0358	-.0780	-.0850	.2673	.4888	-.2196	-.1510	-.1277
120.000		.2297	.2063	.6930	.4987	.1573	-.0399	-.0768	-.1132	-.1239	.0040	.1022	-.1971	-.2194	-.1537
135.000			.2511	.6590	.4551	.1427	-.0577	-.0911	-.1238	-.1328	.0021	.0138	-.0603	-.1265	-.0616
147.000		.2738	.2793	.6211	.4448	.1200	-.0629	-.0971	-.1298	-.1394	.0010	.0363	.0783	.1198	-.0079
162.000			.2940	.5724	.4282	.1068	-.0735	-.0990	-.1353	-.1419	.0095	.0380	.0901	.1326	.0606
180.000	1.7022	.2862	.3068	.4885	.4718	.0936	-.0744	-.0957	-.1350	-.1441	.0046	.0402	.2031	.2439	.0642
198.000			.3109	.4852	.3199	.1562	-.0782	-.1020	-.1309	-.1448	-.0031	.0333	.1348	.0313	.1265
213.000		.2892	.3161	.4798	.0000	-.0107	-.1250	-.0864	-.1328	-.1427	-.0427	.0429	.1043	-.1151	.0761
225.000			.3529	.6251	.5691	.1335	-.0692	-.0914	-.1239	-.1253	-.0012	-.0024	-.0857	-.0968	.0073
240.000		.2700	.3351	.6942	.4578	.1562	-.0519	-.0799	-.1256	-.1267	.0090	.1165	-.1883	-.2098	-.1653
270.000		.1537	.3346	.8251	.5756	.2213	-.0100	-.0472	-.0980	-.0941	.1866	.6009	-.1510	-.1521	-.1285
300.000		.1032	.4514	.9510	.7050	.3144	.0551	.0139	-.0464	-.0500	.1561	.2011	.2219	.0419	-.0093
330.000		.1070	.6421	1.1052	.8166	.0000	.1158	.0655	-.0009	-.0004	.2338	.0000		.1010	.0927

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0987	.0684	.0338	.0547	.0391	-.1401
30.000	.0684	.0495	.0445	.0479	.0286	-.1418
60.000	.0352	.0552	.0626	.0335	.1781	-.1291
90.000	.0528	.0782	-.0091	.0326	.7257	-.1261
120.000	.0117	-.0053	-.0017	.1279	.3238	-.1324
135.000	-.0080	-.0274	.0024	.2799	.4008	
147.000	-.0385	-.0364	.0596	.2643	.3980	-.1841
162.000	-.0360	-.0684	.0575	.2392	.3723	
180.000	-.0460	-.0966	.0351	.2343	.2573	-.1868
198.000	-.0209	-.0482	.0384	.2114	.2118	
213.000	-.1481	-.0693	.0321	.2076	.2002	-.1731
225.000	-.0315	-.0307	.0058	.2143	.2270	
240.000	.0431	-.0064	-.0075	.1591	.2537	-.1399
270.000	.0687	.0795	-.0331	.1467	.5472	-.1352
300.000	.0358	.0497	.0580	.0128	.2013	-.1374
330.000	.0000	.0393	.0452	.0325	.0315	-.1484

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT31)

BETAT (1) = -.154 ALPHAT(8) = 10.844

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.6960	.2450	.7779	1.2281	.9228	.4913	.0000	.1278	.0571	.0461	.3237	.0680	.0887	.1601	.1737
30.000		.1498	.7442	1.1550	.8775	.4832	.1646	.1044	.0413	.0298	.2870	.0655	.1564	.1335	.1198
60.000		.1364	.6945	.9853	.7415	.3507	.0958	.0378	-.0179	-.0255	.1855	.2261	.2154	.0856	.0603
90.000		.1178	.2995	.7969	.5869	.2320	.0051	-.0372	-.0808	-.0901	.2390	.4862	-.1884	-.1172	-.0989
120.000		.1622	.1287	.6329	.4604	.1319	-.0533	-.0885	-.1253	-.1358	-.0225	.0281	-.2348	-.1922	-.1297
135.000			.1852	.6041	.4130	.1120	-.0749	-.1071	-.1397	-.1444	-.0176	.0010	-.0996	-.1656	-.0396
147.000		.2255	.2293	.5791	.3941	.0906	-.0790	-.1107	-.1424	-.1496	-.0014	.0311	.0613	.0924	-.0334
162.000			.2686	.5008	.3714	.0785	-.0902	-.1130	-.1460	-.1499	.0016	.0284	.0767	.0073	.0170
180.000	1.6960	.2378	.2849	.4138	.4339	.0645	-.0888	-.1092	-.1471	-.1529	-.0022	.0273	.2028	.1457	.0005
198.000			.2732	.4405	.2719	.1254	-.0888	-.1174	-.1392	-.1518	-.0137	.0333	.1528	-.0305	.1006
213.000		.2661	.2833	.4233	.0000	-.0418	-.1399	-.0980	-.1443	-.1526	-.0548	.0303	.0976	-.1128	.0486
225.000			.3284	.5958	.4893	.1039	-.0774	-.1021	-.1347	-.1367	-.0151	-.0209	-.1264	-.1606	.0218
240.000		.1772	.2897	.6491	.4217	.1217	-.0675	-.0947	-.1347	-.1356	-.0151	.0550	-.2306	-.1855	-.1341
270.000		.0969	.2490	.7867	.5634	.2061	-.0080	-.0481	-.0973	-.0995	.1743	.5712	-.1300	-.1232	-.1010
300.000		.1002	.7104	.9683	.7229	.3329	.0719	.0255	-.0359	-.0373	.1694	.1970	.2711	.0919	.0397
330.000		.1372	.7455	1.1605	.8608	.0000	.1505	.0963	.0238	.0244	.2675	.0000		.1342	.1281

X/LT	.5528	.6340	.7123	.8508	.9264	.9838
PHI						
.000	.1281	.1040	.0697	.0797	.0641	-.1381
30.000	.1027	.0849	.0697	.0726	.0550	-.1430
60.000	.0692	.0816	.0800	.0628	.2459	-.1334
90.000	.0020	.0118	-.0614	.1318	.6474	-.1321
120.000	.0282	.0041	-.0073	.1372	.3079	-.1326
135.000	-.0042	-.0357	.0246	.2787	.4305	
147.000	-.0649	-.0379	.0475	.2752	.4325	-.1710
162.000	-.0388	-.0579	.0478	.2506	.3570	
180.000	-.0706	-.1081	.0595	.2424	.2167	-.1707
198.000	-.0425	-.0841	.0601	.2217	.1834	
213.000	-.1416	-.0614	.0399	.1999	.1768	-.1696
225.000	-.0290	-.0341	.0151	.2068	.2049	
240.000	.0703	.0086	-.0138	.1500	.2189	-.1326
270.000	.0190	.0451	-.0585	.1710	.6452	-.1340
300.000	.0708	.0718	.0781	.0428	.2368	-.1351
330.000	.0000	.0748	.0672	.0588	.0583	-.1419

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT32) (04 SEP 75)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1897.0000 INCHES YMRP = .0000 IN. YT
BREF = 1897.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = 55.000

BETAT (1) = .000 ALPHAT(1) = -7.249

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.8527	.2978	.3678	.5804	.4790	.1301	.0000	-.1103	-.1458	-.1808	.0308	-.0878	.0520	.0380	-.0238
30.000		.3387	.3485	.6883	.4940	.1395	-.0588	-.1008	-.1384	-.1480	.0284	-.0175	-.0086	-.1157	-.1204
60.000		.3528	.3517	.7409	.5439	.1750	-.0318	-.0820	-.1258	-.1287	.0381	.1858	-.2670	-.2650	-.1219
90.000		.3668	.3244	.8637	.6213	.2342	-.0005	-.0484	-.0939	-.0912	.3989	.3560	-.2519	-.1795	-.0354
120.000		.3878	.3175	.9578	.7131	.2975	.0558	-.0020	-.0560	-.0592	.1924	.3279	.0901	.0860	.0494
135.000			.3305	1.0201	.7516	.3445	.0740	.0241	-.0338	-.0414	.2031	.2262	.2178	.2768	.0957
147.000		.4169	.3443	1.0525	.7898	.3755	.0909	.0413	-.0215	-.0278	.2312	.1889	.3268	.3372	.0873
162.000			.3598	1.0719	.8228	.3812	.1028	.0417	-.0086	-.0153	.2519	.0682	.3543	.0757	.1017
180.000	1.6527	.4498	.3735	1.0782	.8563	.3450	.1189	.0865	-.0144	-.0103	.2551	.0390	.3945	.6230	.1684
198.000			.3814	1.0609	.7582	.4440	.0951	.0549	-.0120	-.0185	.2394	.1884	.2999	.1062	.2706
213.000		.3984	.4419	.8942	.0000	.1424	-.0240	.0689	-.0267	-.0268	.1221	.1881	.3262	-.1417	.2866
225.000			.5023	1.0211	.6519	.3528	.0909	.0030	-.0363	-.0230	.1792	.2289	.1974	.2486	.1200
240.000		.3448	.3612	.9625	.7055	.3108	.0302	-.0001	-.0646	-.0598	.1614	.2564	.1577	.1236	.0831
270.000		.3380	.3422	.8629	.6352	.2300	-.0055	-.0497	-.1021	-.1068	.2936	.5349	-.2145	-.1907	-.0576
300.000		.3284	.3462	.7468	.5272	.1664	-.0493	-.0836	-.1314	-.1314	.0327	.1841	-.1819	-.2731	-.1324
330.000		.2997	.3598	.6221	.4949	.0000	-.0683	-.1018	-.1487	-.1435	.0290	.0000		-.0926	-.1002

X/LT	.5528	.6340	.7423	.8508	.9264	.9838
PHI						
.000	-.1020	-.0686	-.0387	-.0002	.0056	-.1557
30.000	-.0144	-.0483	-.0319	-.0181	.0459	-.1650
60.000	-.1817	-.0587	-.0192	-.0187	.1322	-.1687
90.000	-.0431	-.1127	-.0662	-.0253	.4859	-.1793
120.000	.1211	.0777	.0032	.0187	.2864	-.1777
135.000	.1078	.0307	.0114	.2243	.2805	
147.000	.1281	.0182	.0439	.1128	.3269	-.1822
162.000	.0906	.0383	.0340	.0280	.4340	
180.000	.0726	.0133	.0609	.1339	.4849	-.1902
198.000	-.0225	-.0263	.0593	.0788	.3823	
213.000	.0421	.0291	.0393	.0854	.0821	-.2045
225.000	.1356	.0682	.0027	.1086	.1593	
240.000	.1290	.0468	.0177	.0349	.2052	-.1700
270.000	-.0538	-.1061	-.0347	-.0271	.4374	-.1711
300.000	-.1565	-.0567	-.0063	-.0229	.1399	-.1721
330.000	.0000	-.0678	-.0366	-.0199	.0734	-.1782

ARC07-019 IA81 LVAP(ALL-ML SEALED) EXTERNAL TANK (RETT32)

BETAT (1) = .047 ALPHAT(2) = -4.976

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6494	.3107	.3813	.6928	.5403	.1821	.0000	-.0939	-.1319	-.1362	.0488	-.0857	.0616	.0522	-.0080
30.000		.3329	.3686	.7251	.5416	.1727	-.0403	-.0873	-.1240	-.1280	.0602	.0115	-.0451	-.0771	-.0835
60.000		.3525	.3668	.7820	.5727	.2040	-.0140	-.0662	-.1135	-.1187	.0686	.2666	-.2392	-.2279	-.1051
90.000		.3588	.3649	.8694	.6251	.2451	.0066	-.0424	-.0885	-.0892	.4320	.3551	-.2927	-.1811	-.0866
120.000		.3700	.3768	.9441	.6838	.2794	.0441	-.0105	-.0672	-.0716	.1764	.4131	.0335	.0273	-.0038
135.000			.3856	.9850	.7063	.3078	.0512	.0003	-.0501	-.0559	.1795	.1850	.1551	.2595	.0719
147.000		.3832	.3943	1.0118	.7557	.3325	.0610	.0145	-.0409	-.0490	.2007	.1813	.2867	.3189	.0677
162.000			.4065	1.0220	.7849	.3457	.0726	.0136	-.0366	-.0384	.2113	.1127	.3047	.0613	.0949
180.000	1.6494	.3901	.4193	1.0207	.8280	.2966	.0739	.0389	-.0409	-.0373	.2113	.0905	.3704	.5715	.1536
198.000			.4262	1.0113	.7368	.3894	.0670	.0244	-.0348	-.0426	.1851	.1517	.2715	.0702	.2794
213.000		.3612	.4941	.8898	.0000	.1233	-.0401	.0444	-.0477	-.0530	.0919	.1644	.2846	-.1371	.2429
225.000			.5439	.9856	.8674	.3372	.0692	-.0181	-.0511	-.0373	.1682	.2181	.1597	.2168	.0996
240.000		.3321	.4086	.9509	.7244	.2815	.0188	-.0211	-.0724	-.0671	.1652	.2817	.0836	.0635	.0387
270.000		.3332	.3926	.8854	.6624	.2474	.0014	-.0443	-.0990	-.1006	.3254	.5426	-.2706	-.1949	-.0816
300.000		.3226	.3926	.7862	.5620	.1899	-.0356	-.0716	-.1232	-.1205	.0689	.2502	-.1405	-.2417	-.1109
330.000		.2972	.3787	.7026	.5455	.0000	-.0559	-.0887	-.1354	-.1251	.0573	.0000		-.0485	-.0724

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0826	-.0831	-.0382	.0028	.0044	-.1658
30.000	-.0375	-.0287	-.0305	-.0061	.0626	-.1608
60.000	-.0062	-.0620	-.0263	-.0117	.1882	-.1661
90.000	-.0498	-.1277	-.0468	-.0106	.6003	-.1635
120.000	.0883	.0633	-.0229	.0233	.2733	-.1640
135.000	.0737	.0151	-.0008	.2135	.2845	
147.000	.0740	-.0042	.0330	.1094	.2049	-.1870
162.000	.0623	.0014	.0317	.0775	.3936	
180.000	.0412	-.0181	.0483	.1209	.4080	-.1939
198.000	-.0362	-.0421	.0420	.0815	.3375	
213.000	-.0083	.0006	.0273	.0896	.0980	-.2051
225.000	.0836	.0472	-.0224	.1052	.1544	
240.000	.1214	.0298	-.0014	.0382	.2018	-.1666
270.000	-.0578	-.1214	-.0230	-.0188	.5168	-.1680
300.000	-.0701	-.1151	-.0082	-.0201	.1632	-.1688
330.000	.0000	-.0350	-.0306	-.0206	.0300	-.1749

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT32)

BETAT (1) = .011 ALPHAT(3) = -.435

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.3838	.2858	.4218	.8819	.8324	.2314	.0000	-.0949	-.1028	-.0998	.1182	-.0816	.0805	.0750	.0205
30.000		.3250	.3886	.8587	.8359	.2393	-.0023	-.0547	-.0998	-.0953	.1215	.0553	-.0379	-.0038	-.0275
60.000		.3625	.3824	.8864	.8338	.2393	.0093	-.0424	-.0948	-.0940	.1287	.4442	-.1649	-.1886	-.0887
90.000		.3722	.3808	.8701	.8389	.2484	.0064	-.0461	-.0985	-.0921	.4434	.3962	-.3066	-.1817	-.0272
120.000		.3714	.3829	.8720	.8427	.2353	.0040	-.0384	-.0902	-.0913	.1355	.3959	-.0839	-.1180	-.0758
135.000			.3805	.8840	.8353	.2361	.0089	-.0437	-.0945	-.0857	.1326	.0870	.1141	.1359	.0132
147.000		.3625	.3821	.8909	.8487	.2369	-.0011	-.0448	-.0889	-.0894	.1358	.1283	.2204	.2260	.0525
162.000			.3890	.8877	.8441	.2540	.0089	-.0416	-.1012	-.0857	.1408	.1333	.2720	.0647	.0424
180.000	1.6838	.3494	.3978	.8896	.7687	.2060	-.0008	-.0330	-.1009	-.0884	.1382	.1141	.2470	.4288	.0984
198.000			.4167	.8919	.6919	.2862	-.0029	-.0418	-.0884	-.0894	.1051	.1143	.2096	.0713	.2390
213.000		.3207	.4385	.8587	.0000	.0687	-.0818	-.0168	-.0942	-.0948	.0404	.1481	.2056	-.1403	.1461
225.000			.5045	.8968	.6994	.2815	.0141	-.0583	-.0825	-.0734	.0889	.1154	.0477	.1482	.0554
240.000		.3268	.4401	.8992	.7422	.2169	-.0016	-.0559	-.0990	-.0889	.1400	.3088	-.0458	-.0792	-.0515
270.000		.3591	.4271	.8969	.6330	.2256	-.0147	-.0501	-.1004	-.0945	.3655	.5462	-.3088	-.1979	-.0119
300.000		.3658	.4244	.8825	.6314	.2306	-.0117	-.0501	-.0985	-.0966	.1276	.3439	-.0670	-.1678	-.0937
330.000		.3207	.4273	.8705	.6343	.0000	-.0093	-.0541	-.1076	-.0981	.1136	.0000		.0026	-.0199

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0446	-.0699	-.0245	-.0123	.0034	-.1594
30.000	-.0648	-.0183	-.0314	-.0067	.0321	-.1557
60.000	.0061	-.0057	-.0170	-.0091	.1800	-.1484
90.000	-.1180	-.1578	-.0814	-.0144	.7346	-.1531
120.000	.0245	.0112	-.0330	.0280	.2940	-.1502
135.000	.0306	-.0129	-.0354	.2300	.3092	
147.000	.0122	-.0397	.0176	.1454	.2890	-.1880
162.000	-.0141	-.0644	.0264	.1493	.3507	
180.000	-.0241	-.0897	.0161	.1454	.2972	-.1035
198.000	-.0225	-.0612	.0044	.1146	.2383	
213.000	-.1304	-.0506	.0039	.1286	.1427	-.1972
225.000	.0143	.0024	-.0434	.1321	.1832	
240.000	.0648	.0000	-.0351	.0603	.2281	-.1557
270.000	-.0901	-.1496	-.0458	-.0083	.6028	-.1546
300.000	.0211	-.0018	-.0216	-.0080	.1685	-.1552
330.000	.0000	-.0205	-.0298	-.0083	.0685	-.1623

ARC87-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT32)

BETAT (1) = .010 ALPHAT(4) = 4.142

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6665	.2004	.5095	1.0139	.7330	.3220	.0950	-.0017	-.0593	-.0470	.1991	-.0229	.0493	.1097	.0725
30.000		.2007	.5655	.9885	.7233	.3167	.0518	-.0036	-.0631	-.0515	.1907	.0746	.0436	.0238	.0177
60.000		.3012	.3987	.9406	.6807	.2772	.0365	-.0224	-.0775	-.0709	.1687	.3552	-.0566	-.0978	-.1021
90.000		.3505	.3667	.8658	.6267	.2313	-.0049	-.0503	-.1009	-.0917	.4023	.4012	-.3188	-.1877	-.0015
120.000		.3546	.3732	.7810	.5736	.1892	-.0358	-.0777	-.1239	-.1124	.0773	.2126	-.1606	-.2121	-.0148
135.000			.3753	.7591	.5507	.1818	-.0420	-.0841	-.1312	-.1209	.0733	.0428	.0162	-.0231	-.0553
147.000		.3387	.3734	.7482	.5510	.1648	-.0516	-.0943	-.1368	-.1217	.0728	.0970	.1414	.1464	-.0015
162.000			.3881	.7295	.5539	.1664	-.0608	-.0966	-.1411	-.1257	.0746	.0784	.1616	.0893	.0201
180.000	1.6665	.3352	.3940	.7131	.6031	.1391	-.0599	-.0931	-.1440	-.1295	.0654	.0838	.2104	.2752	.0401
198.000			.3777	.7027	.4994	.2014	-.0559	-.0958	-.1330	-.1321	.0534	.0725	.1975	.0256	.1745
213.000		.3193	.3913	.7059	.0000	.0224	-.1268	-.0695	-.1403	-.1284	-.0059	.0943	.1595	-.1420	.0978
225.000			.4354	.7568	.6592	.2160	-.0479	-.0944	-.1095	-.1029	.0603	.0436	-.0242	.0254	.0041
240.000		.3432	.4124	.8003	.5962	.1913	-.0471	-.0778	-.1225	-.1108	.0913	.2169	-.1505	-.1921	.0488
270.000		.3532	.4148	.9016	.6142	.2138	-.0130	-.0615	-.1037	-.0930	.3263	.5550	-.2881	-.1807	.0124
300.000		.3179	.4338	.9549	.6682	.2780	.0112	-.0373	-.0826	-.0723	.1644	.3104	.0495	-.0853	-.0928
330.000		.2177	.5135	.9962	.7145	.0000	.0404	-.0070	-.0598	-.0539	.1793	.0000		.0273	.0229

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0040	-.0260	-.0050	.0012	-.0018	-.1471
30.000	-.0273	-.0127	-.0047	-.0085	.0440	-.1477
60.000	.0385	.0491	-.0044	-.0125	.1616	-.1532
90.000	.0868	.0442	-.0055	.0771	.3710	-.1590
120.000	.0077	-.0109	-.0297	.0803	.3361	-.1453
135.000	.0107	-.0521	-.0332	.2788	.3303	
147.000	-.0191	-.0657	.0268	.2590	.3231	-.1834
162.000	-.0729	-.0858	.0245	.2209	.3045	
180.000	-.0687	-.1248	-.0018	.2115	.2656	-.1755
198.000	-.0490	-.1192	.0272	.1941	.2239	
213.000	-.1530	-.0665	.0100	.1994	.1978	-.1818
225.000	-.0188	-.0372	-.0208	.1959	.2356	
240.000	.0268	-.0356	-.0286	.1275	.2858	-.1532
270.000	.0900	.0308	-.0227	.0962	.3774	-.1522
300.000	.0478	.0475	-.0061	.0025	.1592	-.1524
330.000	.0000	-.0170	-.0066	-.0018	.0532	-.1580

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT32)

BETAT (1) = .040 ALPHAT(5) = 8.753

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6725	.1534	.7522	1.1491	.8581	.4214	.0000	.0643	-.0048	.0098	.2887	.0354	.0603	1596	.1300
30.000		.1239	.7118	1.0886	.8170	.3955	.1099	.0510	-.0131	-.0041	.2641	.0789	.1186	.0878	.0710
60.000		.1139	.5003	.9542	.7089	.3128	.0547	-.0025	-.0596	-.0479	.1968	.2916	.0757	-.0127	-.0160
90.000		.1716	.2956	.8199	.5935	.2154	-.0203	-.0663	-.1170	-.0939	.3435	.3976	-.2903	-.2194	-.1315
120.000		.2539	.2339	.7032	.4897	.1297	-.0736	-.1125	-.1564	-.1405	.0018	.0565	-.2591	-.2692	-.1652
135.000			.2842	.6580	.4493	.1113	-.0879	-.1260	-.1656	-.1493	.0113	.0033	-.0920	-.1473	-.0008
147.000		.3032	.3129	.6123	.4429	.0942	-.0984	-.1349	-.1726	-.1514	.0193	.0429	.0752	.1246	-.0792
162.000			.3251	.5617	.4391	.0939	-.1057	-.1381	-.1778	-.1546	.0256	.0435	.1053	.0611	-.0048
180.000	1.6725	.3129	.3385	.4894	.4560	.0707	-.1014	-.1351	-.1786	-.1580	.0251	.0478	.2369	.1704	-.0265
198.000			.3434	.5098	.3190	.1316	-.0987	-.1492	-.1672	-.1554	.0113	.0334	.1801	-.0049	.0579
213.000		.3162	.3493	.4918	.0000	-.0510	-.1787	-.1214	-.1810	-.1620	-.0353	.0413	.1319	-.1470	.0418
225.000			.3842	.6331	.5946	.1257	-.1019	-.1308	-.1391	-.1357	.0129	-.0230	-.1360	-.1293	.0282
240.000		.3028	.3807	.7129	.4621	.1460	-.0800	-.1125	-.1415	-.1394	.0087	.0760	-.2601	-.2451	-.1406
270.000		.2162	.3318	.8332	.5798	.2079	-.0333	-.0736	-.1040	-.1035	.2871	.5004	-.2450	-.2164	-.1422
300.000		.1117	.4816	.9552	.7057	.3082	.0402	-.0099	-.0564	-.0543	.1803	.2980	.1726	.0041	-.0334
330.000		.1160	.7003	1.0936	.8125	.0000	.0997	.0406	-.0131	-.0104	.2479	.0000		.0909	.0760

X/LT	.5528	.6340	.7423	.8508	.9284	.9838
PHI						
.000	.0845	.0378	.0231	.0391	.0306	-.1458
30.000	.0426	.0239	.0334	.0188	.0332	-.1519
60.000	.0186	.0532	.0296	.0064	.2130	-.1389
90.000	.0501	.0383	-.0675	.1988	.6846	-.1405
120.000	.0172	-.0199	-.0155	.2336	.3563	-.1363
135.000	-.0177	-.0691	.0193	.3717	.4055	
147.000	-.0730	-.0599	.0385	.3560	.4095	-.1900
162.000	-.0778	-.0503	.0283	.3193	.3560	
180.000	-.1104	-.1245	.0499	.3082	.2758	-.1780
198.000	-.0746	-.1443	.0718	.2836	.2553	
213.000	-.1566	-.0661	.0504	.2669	.2572	-.1882
225.000	-.0495	-.0489	.0140	.2713	.2881	
240.000	.0210	-.0169	-.0212	.2178	2769	-.1442
270.000	.0573	.0277	-.0911	.2066	.5637	-.1486
300.000	.0210	.0818	.0286	.0093	.2183	-.1468
330.000	.0000	.0147	.0342	.0279	.0410	-.1558

ARC87-019 IA81 LVAP(ALL HL SEALED) EXTERNAL TANK (RETT32)

BETAT (1) = .042 ALPHAT(61) = 10.893

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.0000	.2198	.0618	1.2071	.9195	.4810	.0000	.1073	.0362	0408	.3357	.0693	.0867	.1862	.1662
30.000		.1358	.0405	1.1343	.0878	.4458	.1442	.0841	.0178	.0253	.2997	.0910	.1523	.1227	.1077
60.000		.1351	.9815	.9879	.7281	.3331	.0739	.0128	-.0480	-.0372	.2062	.2843	.1272	.0449	.0341
90.000		.1258	.3047	.7922	.5786	.2115	-.0213	-.0709	-.1195	-.0353	.2978	.4009	-.2557	-.1768	-.1510
120.000		.1088	.1484	.6407	.4507	.1085	-.0851	-.1238	-.1671	-.1537	-.0427	-.0214	-.3038	-.2401	-.1291
135.000			.2215	.6088	.3988	.0878	-.1047	-.1378	-.1752	-.1635	-.0112	-.0033	-.1248	-.1783	-.0617
147.000		.2888	.2889	.5738	.3872	.0841	-.1104	-.1472	-.1819	-.1654	.0090	.0288	.0810	.0849	-.0048
162.000			.3130	.4890	.3832	.0857	-.1171	-.1481	-.1862	-.1843	.0092	.0275	.0905	-.0154	-.0376
180.000	1.0000	.3049	.3344	.4357	.4149	.0483	-.1108	-.1461	-.1857	-.1673	.0185	.0329	.2422	.1291	-.0851
198.000			.3132	.4574	.2776	.1018	-.1074	-.1809	-.1749	-.1601	.0039	.0372	.1900	-.0556	.0485
213.000		.3120	.3258	.4279	.0000	-.0848	-.1959	-.1308	-.1888	-.1715	-.0503	.0264	.1055	-.1417	.0186
225.000			.3879	.6130	.5330	.0920	-.1098	-.1391	-.1529	-.1505	-.0075	-.0314	-.1765	-.1841	-.0163
240.000		.2101	.3290	.6618	.4208	.1157	-.0966	-.1243	-.1537	-.1540	-.0210	.0026	-.3047	-.2038	-.1369
270.000		.1058	.2674	.7921	.5682	.2059	-.0315	-.0754	-.1130	-.1101	.2459	.4801	-.1999	-.1801	-.1458
300.000		.1075	1.0474	.9678	.7267	.3288	.0562	.0066	-.0430	-.0404	.1914	.2769	.2310	.0568	.0221
330.000		.1194	.8212	1.1417	.8625	.0000	.1371	.0768	.0139	.0158	.2830	.0000		.1259	.1157

X/LT	.5528	.6340	.7423	.8508	.9284	.9838
PHI						
.000	.1085	.0808	.0585	.0709	.0587	-.1453
30.000	.0816	.0614	.0611	.0510	.0601	-.1562
60.000	.0498	.0805	.0603	.0391	.2763	-.1430
90.000	.0193	-.0019	-.1053	.2298	.7337	-.1461
120.000	-.0323	-.0183	-.0070	.2161	.3437	-.1438
135.000	-.0299	-.0705	.0008	.4307	.4321	
147.000	-.0965	-.0657	.0361	.3922	.4089	-.1740
162.000	-.0845	-.0700	.0714	.3355	.3573	
180.000	-.1276	-.1378	.0763	.3272	.2619	-.1652
198.000	-.0898	-.1212	.0954	.3089	.2398	
213.000	-.1503	-.0633	.0730	.2871	.2483	-.1835
225.000	-.0438	-.0392	.0241	.2822	.2835	
240.000	.0281	-.0175	-.0025	.2196	.2563	-.1448
270.000	.0342	.0194	-.1088	.2249	.6475	-.1472
300.000	.0507	.0746	.0601	.0438	.2818	-.1458
330.000	.0000	.0520	.0631	.0555	.0718	-.1522

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT33) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = 55.000

BETAT (1) = .439 ALPHAT(1) = -7.312

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2694	.2821	.3382	.3804	.4446	.4987
PHI															
.000	1.5541	.5330	.6483	.6888	.4782	.0878	.0000	-.1834	-.2388	-.2298	.0280	.0111	.0527	-.0399	-.1483
30.000		.5803	.6851	.7186	.4835	.1013	-.1337	-.1888	-.2341	-.2234	.0202	-.0408	-.0823	-.1770	-.0930
60.000		.6143	.6548	.7724	.5338	.1315	-.1104	-.1875	-.2207	-.1370	.0298	.0467	-.4816	-.2611	-.1048
90.000		.6434	.6252	.8498	.6053	.1883	-.0791	-.1307	-.1881	.1240	.4859	.0905	-.4632	-.1948	-.1437
120.000		.7093	.6713	.9312	.6989	.2511	-.0184	-.0798	-.1472	-.1368	.1892	.4813	.0882	.0783	.1241
135.000			.6960	.9838	.7321	.2987	.0100	-.0589	-.1258	-.1109	.2054	.2050	.2956	.1585	.0546
147.000		.7778	.7283	1.0145	.7727	.3269	.0261	-.0387	-.0958	-.1002	.2132	.2773	.3638	.2330	-.0788
162.000			.7383	1.0453	.7985	.3545	.0382	.0002	-.0934	-.0818	.2408	.2713	.4761	-.1703	-.1272
180.000	1.5541	.8345	.7696	1.0618	.8017	.3970	.0655	-.0254	-.0678	-.0805	.2598	.2567	.5444	.4122	.0073
198.000			.8049	1.0589	.7044	.3873	.0857	-.0329	-.0880	-.0641	.2387	.2288	.4365	-.1152	-.0102
213.000		.7845	.8831	.9309	.0000	.0693	-.1361	.0310	-.1084	-.1104	.1379	.2397	.3802	-.1773	.1773
225.000			.9056	1.0273	.6361	.2887	.0369	-.0619	-.1185	-.0915	.2030	.2614	.2392	.1393	.0876
240.000		.6984	.7450	.9596	.6692	.3212	-.0320	-.0536	-.1488	-.1318	.2064	.4732	.1011	.0878	.1115
270.000		.6541	.6978	.8780	.6234	.2088	-.0594	-.1139	-.1969	.1028	.4268	.2614	-.4315	-.1959	-.1241
300.000		.6130	.6805	.7895	.5457	.1497	-.1136	-.1648	-.2268	-.1946	.0085	.0245	-.3511	-.2823	-.1123
330.000		.5479	.6415	.7111	.5032	.0000	-.1450	-.1889	-.2453	-.2283	.0113	.0000		-.1725	-.1137

X/LT	.5628	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1183	-.0585	.0089	.0017	.0347	-.2015
30.000	-.0849	-.0593	-.0116	-.0069	.0515	-.2167
60.000	-.1088	-.0680	-.0410	.0053	.1896	-.2130
90.000	-.2300	-.0688	-.0680	.0782	.6235	-.2098
120.000	.0293	-.0147	-.0893	.0543	.2828	-.2083
135.000	.0881	-.0321	-.1312	.2437	.2835	
147.000	.1102	.0157	-.0849	.1703	.2376	-.2075
162.000	-.0197	.0474	-.0448	.1511	.3350	
180.000	-.0100	.0820	-.1288	.1358	.3739	-.1971
198.000	-.1129	-.0930	-.0060	.1016	.2331	
213.000	.1178	.0224	-.0590	.1148	.0775	-.1934
225.000	.0848	.0167	-.0902	.1373	.1357	
240.000	.0358	.0001	-.0788	.0741	.2142	-.2057
270.000	-.2428	-.0696	-.0577	.0224	.4801	-.2038
300.000	-.1517	-.0496	-.0380	-.0050	.1927	-.2109
330.000	.0000	-.0848	-.0157	-.0073	.0702	-.2138

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT33)

BETAT (1) = .415 ALPHAT(2) = -5.031

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2931	.3362	.3904	.4445	.4987
PHI															
.000	1.5540	.5804	.6778	.7341	.5277	.1345	.0000	-.1711	-.2257	-.2164	.0472	.0048	.0714	-.0228	-.1233
30.000		.6173	.7030	.7724	.5389	.1335	-.1128	-.1636	-.2170	-.2076	.0501	-.0051	-.0850	-.1444	-.1015
60.000		.6160	.7316	.8072	.5670	.1575	-.0913	-.1512	-.2084	-.1793	.0584	.0153	-.4080	-.2571	-.1169
90.000		.6243	.7607	.8603	.6174	.1968	-.0720	-.1300	-.1839	.1386	.5167	.0917	-.4259	-.2378	-.1702
120.000		.6474	.8082	.9244	.6799	.2382	-.0260	-.0878	-.1576	-.1480	.1733	.3862	-.0460	.0022	.0879
135.000			.8292	.9602	.7016	.2745	-.0032	-.0736	-.1470	-.1247	.1840	.1585	.2600	.1176	.0228
147.000		.6781	.8594	.9821	.7300	.2862	-.0042	-.0655	-.1217	-.1203	.1848	.2067	.3191	.1687	-.0910
162.000			.8847	1.0024	.7435	.2975	-.0019	-.0378	-.1068	-.1117	.2048	.2020	.3658	-.0835	-.0923
180.000	1.5540	.7131	.9015	1.0135	.7458	.3381	.0322	-.0582	-.1057	-.1088	.2144	.2203	.4221	.3382	-.0702
198.000			.9236	1.0096	.6396	.3465	.0480	-.0651	-.0951	-.0971	.1767	.2028	.3909	-.0868	-.0290
213.000		.6983	.9790	.9326	.0000	.0522	-.1491	.0012	-.1341	-.1383	.1057	.2337	.3271	-.1710	.1223
225.000			.9854	.9987	.6086	.2814	.0190	-.0845	-.1339	-.1080	.1816	.1958	.1439	.1172	.0339
240.000		.6682	.8742	.9617	.6484	.3108	-.0498	-.0690	-.1582	-.1373	.1905	.4490	-.0143	.0123	.0890
270.000		.6508	.8049	.9018	.6404	.2017	-.0663	-.1059	-.1850	.1013	.4757	.2678	-.4855	-.2364	-.1231
300.000		.6404	.7238	.8388	.5848	.1772	-.0912	-.1444	-.2114	-.1913	.0503	.1107	-.3139	-.2561	-.0836
330.000		.5646	.6645	.7801	.5505	.0000	-.1217	-.1692	-.2289	-.2082	.0449	.0000		-.1443	-.1319

X/LT	.5528	.6340	.7423	.8508	9264	.9838
PHI						
.000	-.1287	-.0564	.0109	.0117	.0463	-.1978
30.000	-.0746	-.0548	-.0021	.0047	.0732	-.2079
60.000	-.0535	-.0405	-.0487	.0073	.1738	-.2035
90.000	-.2217	-.0606	-.0511	.0996	.6652	-.2001
120.000	.0366	-.0257	-.0772	.0709	.3019	-.1913
135.000	.0688	-.0410	-.1169	.2356	.3021	
147.000	.0860	.0160	-.0666	.1748	.2721	-.2111
162.000	-.0492	.0606	-.0411	.1525	.3363	
180.000	-.0919	.0865	-.1213	.1485	.3491	-.2082
198.000	-.1145	-.0834	-.0569	.1148	.1979	
213.000	.0845	.0109	-.0489	.1283	.1004	-.2095
225.000	.0545	.0000	-.0804	.1388	.1587	
240.000	.0317	-.0091	-.0765	.0832	.2305	-.2077
270.000	-.2688	-.0200	-.0395	.0764	.6299	-.2017
300.000	-.0512	-.0350	-.0520	.0050	.1861	-.2058
330.000	.0000	-.0640	-.0075	-.0122	.0537	-.2085

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT33)

BETAT (1) = .387 ALPHAT(3) = -.398

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5802	.7026	.7853	.9022	.6421	.2091	.0000	-.1200	-.1905	-.1747	.1062	-.0191	.1163	.0159	-.0772
30.000		.6771	.7845	.8898	.6358	.2117	-.0679	-.1254	-.1756	-.1868	.1111	.0607	-.1438	-.0473	-.0770
60.000		.7154	.7745	.8859	.6298	.2037	-.0533	-.1182	-.1818	-.1676	.1127	.2836	-.3222	-.1985	-.0741
90.000		.7258	.7781	.8896	.6307	.2058	-.0627	-.1247	-.1833	.1471	.5530	.3252	-.2676	-.2469	-.2339
120.000		.7273	.7779	.8919	.6426	.2027	-.0575	-.1164	-.1753	-.1655	.1205	.2434	-.1911	-.0209	-.0644
135.000			.7788	.9022	.6377	.2191	-.0653	-.1021	-.1764	-.1692	.1291	.1507	.1262	.0490	-.0891
147.000		.7250	.7826	.9121	.6465	.2196	-.0578	-.1213	-.1709	-.1585	.1330	.1687	.2061	.1150	-.1253
162.000			.7897	.9172	.6467	.1981	-.0679	-.1099	-.1745	-.1637	.1390	.1693	.2675	-.0949	-.1202
180.000	1.5802	.7193	.7993	.9185	.6415	.2245	-.0355	-.1208	-.1652	-.1752	.1392	.1552	.3806	.2551	-.0898
198.000			.8197	.9284	.5289	.2562	-.0244	-.1296	-.1518	-.1488	.1148	.1317	.3410	-.1037	-.0746
213.000		.7052	.8489	.9095	.0000	.0041	-.1853	-.0584	-.1797	-.1875	.0534	.2009	.2804	-.1676	.0643
225.000			.8707	.9338	.5683	.2593	-.0223	-.1275	-.1648	-.1407	.0932	.1283	.0063	.0321	-.0304
240.000		.7271	.8081	.9374	.6276	.2506	-.0648	-.1179	-.1768	-.1561	.1314	.2672	-.1865	-.0121	-.0232
270.000		.7322	.7902	.9343	.6641	.2209	-.0591	-.1205	-.1718	.1139	.5023	.2635	-.3051	-.2311	-.1770
300.000		.7445	.7964	.9195	.6504	.2337	-.0661	-.1107	-.1749	-.1658	.1184	.2774	-.2241	-.1727	-.0919
330.000		.7370	.7850	.9110	.6549	.0000	-.0614	-.1148	-.1867	-.1700	.1106	.0000		-.0695	-.0735

X/LT	.5628	.6340	.7423	.8506	.9284	.9838
PHI						
.000	-.0982	-.0512	-.0040	.0159	.0351	-.1872
30.000	-.0540	-.0505	-.0129	.0221	.1210	-.2015
60.000	-.0299	-.0204	-.0238	.0361	.1908	-.1838
90.000	-.2290	-.0734	-.0710	.1079	.6221	-.1809
120.000	.0152	-.0412	-.0671	.1739	.3693	-.1776
135.000	.0273	-.0521	-.0804	.3112	.3332	
147.000	.0309	-.0129	-.0173	.2591	.3144	-.2450
162.000	-.1112	.0598	-.0613	.2288	.3110	
180.000	-.1797	.0494	-.0662	.2091	.2472	-.2267
198.000	-.1718	-.1110	-.0014	.1884	.1758	
213.000	-.0279	-.0188	-.0115	.1989	.1738	-.2169
225.000	-.0045	-.0238	-.0475	.2007	.2297	
240.000	-.0066	-.0412	-.0530	.1529	.2736	-.1893
270.000	-.2149	-.0349	-.0411	.0382	.5984	-.1921
300.000	-.0197	-.0225	-.0126	.0180	.1555	-.1880
330.000	.0000	-.0515	-.0022	.0139	.1092	-.1919

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT33)

BETAT (1) = .388 ALPHAT(4) = 4.237

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1284	.1944	.2106	.2323	.2584	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5566	.5737	.9358	1.0031	.7878	.3177	.0000	-.0557	-.1245	-.1179	.1954	-.0405	.1739	.0735	-.0125
30.000		.6034	.9030	.9770	.7423	.3003	-.0074	-.0702	-.1341	-.1194	.1796	-.0366	.0076	.0095	-.0433
60.000		.6570	.8304	.9285	.6883	.2506	-.0377	-.0886	-.1591	-.1473	.1695	.4667	-.1976	-.1341	-.0361
90.000		.6479	.7739	.8679	.6304	.1971	-.0642	-.1248	-.1849	.1256	.5145	.1384	-.2819	-.1630	-.0145
120.000		.6411	.7340	.8174	.5905	.1449	-.0886	-.1463	-.2072	-.1867	.0650	.0833	-.2683	-.1255	-.1403
135.000			.7216	.8083	.5708	.1525	-.1155	-.1510	-.2084	-.2044	.0686	.1384	.0123	.0883	-.1221
147.000		.6479	.7065	.8001	.5731	.1533	-.1132	-.1665	-.2170	-.1974	.0772	.1334	.1846	.1216	-.1527
162.000			.6876	.7890	.5664	.1310	-.1261	-.1676	-.2180	-.2065	.0762	.1368	.2081	-.0486	-.1195
180.000	1.5566	.6179	.6822	.7691	.5526	.1405	-.1036	-.1726	-.2131	-.2138	.0655	.1277	.3899	.1755	-.1041
198.000			.6894	.7874	.4299	.1628	-.0842	-.1878	-.1966	-.1914	.0513	.1089	.3103	-.0858	-.0784
213.000		.5979	.6956	.7766	.0000	-.0374	-.2374	-.1178	-.2226	-.2258	.0033	.1413	.2504	-.1379	.0307
225.000			.7245	.8395	.5798	.2252	-.0829	-.1614	-.1963	-.1737	.0528	.0841	-.1069	.0933	-.0481
240.000		.6330	.7503	.8615	.6263	.1592	-.0780	-.1483	-.2068	-.1906	.0645	.1097	-.2784	-.0802	-.0679
270.000		.6908	.8019	.9150	.6747	.2363	-.0573	-.1103	-.1877	.0938	.4703	.2752	-.3512	-.1565	.0112
300.000		.6976	.8715	.9677	.7223	.2744	-.0249	-.0835	-.1575	-.1416	.1752	.5025	-.0922	-.1691	-.0327
330.000		.6401	.9332	1.0020	.7478	.0000	-.0029	-.0592	-.1333	-.1152	.1832	.0000		.0101	-.0448

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0638	-.0182	-.0088	.0202	.0726	-.1656
30.000	-.0264	-.0092	-.0122	.0318	.0987	-.1801
60.000	.0359	-.0012	-.0127	.0892	.1295	-.1726
90.000	.0449	.0055	-.0028	.1479	.2590	-.1671
120.000	.0167	-.0114	.0013	.2386	.3463	-.1607
135.000	-.0105	-.0365	-.0005	.4120	.3939	
147.000	-.0868	-.0295	.0112	.3091	.2407	-.1620
162.000	-.1491	-.0282	-.0393	.3353	.3106	
180.000	-.1852	.0099	.0194	.3195	.2676	-.1703
198.000	-.1696	-.0964	.0871	.2900	.2301	
213.000	-.0863	-.0083	.0662	.2913	.2170	-.1869
225.000	-.0474	-.0036	.0310	.2733	.2548	
240.000	.0075	.0026	.0230	.2061	.2350	-.1630
270.000	.0277	-.0034	.0212	.1370	.2389	-.1487
300.000	.0339	-.0059	.0047	.0760	.1123	-.1500
330.000	.0000	-.0148	.0013	.0372	.0971	-.1887

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT33)

BETAT (1) = .423 ALPHAT(5) = 8.870

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3804	.4445	.4987
PHI															
.000	1.5879	.3188	1.3374	1.1037	.8730	.4202	.0000	.0114	-.0721	-.0558	.2837	.0044	.2222	.1348	.0514
30.000		.3833	1.5806	1.0481	.8238	.3778	.0509	-.0218	-.0868	-.0741	.2411	.1038	.0867	.0683	.0158
60.000		.3831	1.3818	.9344	.7073	.2804	-.0029	-.0741	-.1504	-.1297	.2053	.8088	-.0471	-.0585	-.0215
90.000		.5084	.5935	.8172	.5848	.1780	-.0930	-.1517	-.2109	.0873	.4870	.1087	-.4431	-.1918	-.0288
120.000		.5774	.3881	.7367	.4949	.0875	-.1441	-.1958	-.2529	-.0903	-.0179	-.0950	-.2334	-.2307	-.0949
135.000			.4729	.7254	.4887	.0696	-.1641	-.2098	-.2819	-.2345	.0073	.0648	-.0773	-.0298	-.1628
147.000		.5994	.5578	.6887	.4691	.0672	-.1767	-.2159	-.2684	-.2390	.0379	.0798	.1489	.0949	-.2535
162.000			.6452	.6279	.4559	.0459	-.1877	-.2288	-.2678	-.2372	.0397	.0772	.1610	-.0485	-.1142
180.000	1.5879	.5822	.6777	.6035	.4373	.0634	-.1656	-.2269	-.2632	-.2398	.0306	.0793	.3580	.0416	-.1547
198.000			.6313	.6245	.2636	.0761	-.1470	-.2519	-.2498	-.2189	.0229	.0915	.2514	-.0632	-.1040
213.000		.5933	.6292	.5642	.0000	-.1381	-.3077	-.1838	-.2889	-.2452	-.0355	.0849	.1671	-.1485	-.0296
225.000			.6790	.7221	.5693	.1515	-.1659	-.2048	-.2340	-.2043	-.0200	.0074	-.2189	-.0392	-.0729
240.000		.6345	.6824	.7513	.5824	.1091	-.1517	-.1793	-.2450	-.1518	-.0158	-.0625	-.3541	-.2480	-.0690
270.000		.6049	.6295	.8522	.6300	.1756	-.0828	-.1454	-.2035	.0947	.4168	.2219	-.4634	-.1842	-.0081
300.000		.4549	1.3772	.9682	.7439	.3118	-.0089	-.0700	-.1294	-.1192	.2118	.6739	.0158	-.0789	-.0225
330.000		.3717	1.5295	1.0702	.8452	.0000	.0540	-.0109	-.0850	-.0706	.2476	.0000		.0621	.0170

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0001	.0129	.0197	.0178	.0559	-.1813
30.000	.0058	.0241	-.0008	.0213	.1251	-.1717
60.000	.0842	.0103	.0021	.0812	.2287	-.1665
90.000	-.0583	-.0878	-.0232	.2306	.5303	-.1706
120.000	-.0348	.0050	.0369	.2718	.3154	-.1685
135.000	-.0106	.0550	.0506	.4165	.4298	
147.000	-.0413	.0881	.0342	.4383	.4177	-.1659
162.000	-.1582	.1138	.0081	.3968	.3199	
180.000	-.1742	.0814	.1004	.3855	.2731	-.1857
198.000	-.1252	-.0109	.1427	.3410	.2507	
213.000	-.1052	.0258	.1149	.3308	.2499	-.1979
225.000	-.0463	.0289	.0928	.3185	.2830	
240.000	-.0265	-.0048	.0849	.2601	.2368	-.1586
270.000	-.0299	-.0992	.0194	.2267	.5207	-.1446
300.000	.0718	.0171	.0181	.0786	.2397	-.1550
330.000	.0000	.0328	.0152	.0374	.1225	-.1854

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT34) (04 SEP 75)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = 0.000 ELV-OB = -4.000
RUDDER = .000 SPOBRK = .000

BETAT (1) = .416 ALPHAT(1) = -7.056

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5590	.5357	.6470	.6758	.4860	.0915	-.1477	-.1929	-.2427	-.2276	.0296	.0128	.0526	-.0434	-.1529
30.000		.5909	.6651	.7208	.4948	.0973	.0000	-.1907	-.2366	-.2217	.4456	-.0361	-.0812	-.1758	-.0973
60.000		.6238	.6515	.7783	.5397	.1302	-.1489	-.1682	-.2235	-.1316	.0335	.0490	-.4612	-.2511	-.1005
90.000		.6605	.6573	.8660	.6035	.1790	-.0824	-.1331	-.1898	.1337	.4966	.0892	-.4939	-.1938	-.1558
120.000		.7215	.6631	.9381	.0000	.2458	-.0229	-.0840	-.1536	-.1322	.1921	.4750	.0724	.0586	.1222
135.000			.6883	.9899	.7338	.0000	.0054	.0000	-.1312	-.1094	.2050	.1893	.2863	.1504	.0494
147.000		.7938	.6980	1.0226	.7701	.0000	.0201	-.0445	-.1023	-.1039	.2085	.2623	.3560	.2173	-.0877
162.000			.7440	1.0483	.0000	.0000	.0282	-.0043	-.0991	-.0859	.0000	.2753	.4503	-.1423	-.1217
180.000	1.5590	.9354	.7411	1.0597	.0000	.3860	.0590	-.0322	-.0751	-.0839	.2424	.2436	.5377	.3759	.0042
198.000			.8096	1.0571	.0000	.3747	.0764	-.0392	-.0729	-.0693	.2303	.2368	.4323	-.1043	-.0084
213.000		.7689	.8435	.9361	.0000	.0000	-.1338	.0255	-.1139	-.1130	.1319	.2375	.3745	.1230	.1642
225.000			.8787	1.0262	.6339	.0000	.0320	-.0649	-.1212	-.0911	.2033	.2514	.2342	.1283	.0748
240.000		.6922	.7101	.9693	.6724	.3156	.0000	-.0575	-.1492	-.1309	.2033	.4834	.0850	.0745	.1066
270.000		.6605	.6784	.8826	.6226	.2061	-.0647	-.1171	-.1943	.1111	.4331	.2572	-.4595	-.2197	-.1493
300.000		.6180	.6876	.7985	.5456	.1450	-.1135	-.1655	-.2256	-.1871	.0193	.0268	-.3532	-.2778	-.1121
330.000		.5705	.6504	.7332	.5068	.0000	-.1466	-.1898	-.2435	-.2276	.0160	.0000		-.1753	-.1184

X/LT	.5528	.6340	.7423	.8508	.9264	.9838
PHI						
.000	.0000	-.0629	.0089	.0017	.0361	-.2057
30.000	-.0921	.0000	-.0130	-.0070	.0534	.0063
60.000	-.0822	-.0860	-.0371	.0078	.1885	-.2125
90.000	-.2023	-.0728	-.0680	.0796	.6294	-.2083
120.000	.0252	-.0111	-.0940	.0527	.2782	-.1988
135.000	.0784	-.0333	.0000	.2350	.2778	
147.000	.0973	.0118	-.0818	.1660	.2482	-.2141
162.000	-.0378	.0382	-.0564	.1471	.3185	
180.000	.0896	.0708	-.1330	.1321	.3438	-.2088
198.000	-.1200	-.1037	-.0689	.1034	.1933	
213.000	.1178	.0185	-.0602	.1139	.0874	.0000
225.000	.0774	.0153	-.0955	.1395	.1389	
240.000	.0318	.0000	-.0820	.0760	.2133	-.2119
270.000	-.2222	-.0799	-.0570	.0404	.5684	-.2047
300.000	-.1446	-.0506	-.0368	.0009	.1969	-.2122
330.000	.0000	-.0641	-.0124	-.0034	.0671	-.2177

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT34)

BETAT (1) = .390 ALPHAT(2) = -4.826

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5575	.5942	.6874	.7421	.5343	.1319	-.1229	-.1714	-.2262	-.2125	.0515	.0093	.0731	-.0244	-.1287
30.000		.5920	.6958	.7808	.5434	.1294	.0000	-.1625	-.2191	-.2044	.0479	-.0004	-.0791	-.1395	-.1063
60.000		.6331	.7308	.8223	.5720	.1522	-.1433	-.1506	-.2086	-.1761	.0686	.1246	-.4015	-.2669	-.1223
90.000		.6395	.7648	.8700	.6187	.1911	-.0755	-.1292	-.1831	.1502	.5258	.1062	-.3947	-.2634	-.1856
120.000		.6614	.8085	.9301	.0000	.2311	-.0307	-.0908	-.1585	-.1433	.1782	.3719	-.0502	-.0035	.0825
135.000			.8297	.9658	.7044	.0000	-.0070	.0000	-.1492	-.1228	.1833	.1522	.2567	.1115	.0164
147.000		.6893	.6522	.9862	.7283	.0000	-.0061	-.0688	-.1272	-.1222	.1840	.2062	.3130	.1570	-.0936
162.000			.8739	1.0067	.0000	.0000	-.0054	-.0458	-.1211	-.1140	.0000	.1995	.3709	-.0898	-.0987
180.000	1.5575	.7211	.8976	1.0132	.0000	.3279	.0291	-.0633	-.1125	-.1108	.2082	.2217	.4138	.3114	-.0472
198.000			.9203	1.0190	.0000	.3401	.0444	-.0701	-.1001	-.0988	.1738	.1998	.3875	-.0876	-.0264
213.000		.7012	.9654	.9359	.0000	.0000	-.1455	-.0017	-.1384	-.1374	.1004	.2297	.3257	.1128	.1152
225.000			.9729	.9847	.6017	.0000	.0137	-.0 78	-.1329	-.1048	.1782	.1914	.1381	.1075	.0256
240.000		.6682	.8635	.9615	.6574	.3067	.0000	-.0697	-.1569	-.1358	.1900	.4414	-.0241	.0023	.0911
270.000		.6566	.8044	.9042	.6394	.1969	-.0678	-.1087	-.1813	.1110	.4713	.2641	-.5078	-.2466	-.1546
300.000		.8498	.7369	.8426	.5904	.1731	-.0918	-.1441	-.2098	-.1868	.0576	.1142	-.3140	-.2508	-.0894
330.000		.5724	.6808	.7998	.5554	.0000	-.1238	-.1687	-.2252	-.2042	.0502	.0000		-.1479	-.1254

X/LT	.5528	.6340	.7423	.8508	.9264	.9838
PHI						
.000	.0000	-.0823	.0117	.0116	.0487	-.1948
30.000	-.0814	.0000	.0002	.0052	.0767	-.2181
60.000	-.0489	-.0435	-.0463	.0148	.1668	-.1968
90.000	-.1892	-.0636	-.0501	.0988	.6598	-.1923
120.000	.0318	-.0239	-.0796	.0710	.3077	-.1794
135.000	.0567	-.0405	.0000	.2400	.2930	
147.000	.0704	.0136	-.0636	.1802	.2660	-.2019
162.000	-.0658	.0517	-.0442	.1599	.3161	
180.000	-.0798	.0745	-.1203	.1456	.3077	-.2097
198.000	-.1229	-.0902	-.0573	.1168	.1771	
213.000	.0612	.0136	-.0494	.1268	.1126	.0000
225.000	.0491	.0024	-.0810	.1408	.1607	
240.000	.0254	.0000	-.0787	.0868	.2362	-.1990
270.000	-.2783	-.0293	-.0398	.0819	.8293	-.1997
300.000	-.0511	-.0418	-.0490	.0091	.1903	-.2013
330.000	.0000	-.0823	-.0091	-.0084	.0595	-.2039

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT34)

BETAT (1) = .377 ALPHAT(3) = -2.588

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5592	.6509	.7601	.8363	.5941	.1661	-.0951	-.1473	-.2073	-.1935	.0753	.0030	.0914	-.0079	-.1093
30.000		.6698	.7569	.8466	.5941	.1680	.0000	-.1447	-.1997	-.1857	.0833	.0304	-.1137	-.0916	-.0968
60.000		.6888	.7659	.8574	.6069	.1773	-.1334	-.1339	-.1977	-.1727	.0882	.2026	-.3603	-.2384	-.1019
90.000		.6914	.7755	.8866	.6295	.1973	-.0679	-.1259	-.1863	.1505	.5443	.1629	-.3288	-.2640	-.2298
120.000		.6927	.7900	.9135	.0000	.2153	-.0452	-.1038	-.1677	-.1545	.1486	.3045	-.1272	-.0262	.0406
135.000			.8019	.9369	.6685	.0000	-.0282	.0000	-.1658	-.1461	.1560	.1410	.2086	.0684	-.0367
147.000		.7007	.8083	.9489	.6817	.0000	-.0410	-.0932	-.1531	-.1422	.1573	.1777	.2482	.1222	-.1154
162.000			.8220	.9586	.0000	.0000	-.0394	-.0822	-.1451	-.1402	.0000	.1757	.3372	-.0817	-.1214
180.000	1.5592	.7190	.8382	.9687	.0000	.2729	-.0055	-.0934	-.1422	-.1461	.1745	.1889	.3830	.2641	-.0709
198.000			.8544	.9739	.0000	.2948	.0070	-.1013	-.1282	-.1233	.1381	.1622	.3538	-.0858	-.0431
213.000		.7142	.8843	.9317	.0000	.0000	-.1646	-.0324	-.1601	-.1646	.0898	.2169	.2859	.0918	.0825
225.000			.9103	.9660	.5773	.0000	-.0033	-.1100	-.1493	-.1230	.1477	.1500	.0690	.0662	-.0044
240.000		.7033	.8327	.9525	.6446	.2800	.0000	-.0940	-.1669	-.1444	.1624	.3547	-.1131	-.0533	.0684
270.000		.7068	.8041	.9238	.6536	.2050	-.0679	-.1131	-.1731	.1139	.4888	.2659	-.3836	-.2042	-.1918
300.000		.6894	.7648	.8906	.6259	.2053	-.0753	-.1256	-.1903	-.1770	.0898	.2015	-.2753	-.2033	-.1090
330.000		.6631	.7522	.8591	.6056	.0000	-.0907	-.1460	-.2069	-.1866	.0782	.0000		-.1160	-.0961

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0642	.0050	.0113	.0409	-.1858
30.000	-.0734	.0000	-.0026	.0190	.0919	-.1942
60.000	-.0364	-.0202	-.0423	.0148	.1357	-.1852
90.000	-.1787	-.0654	-.0542	.1329	.6727	-.1820
120.000	.0181	-.0222	-.0779	.1281	.3320	-.1687
135.000	.0379	-.0327	.0000	.2537	.3089	
147.000	.0500	.0172	-.0420	.2089	.2880	-.2052
162.000	-.0955	.0569	-.0625	.1812	.2992	
180.000	-.1513	.0534	-.1014	.1682	.2665	-.2084
198.000	-.1427	-.1006	-.0388	.1424	.1711	
213.000	.0143	-.0030	-.0382	.1497	.1395	.0000
225.000	.0178	-.0138	-.0688	.1637	.1881	
240.000	-.0013	.0000	-.0720	.1145	.2478	-.1923
270.000	-.2636	-.0158	-.0382	.0867	.6201	-.1926
300.000	-.0368	-.0298	-.0407	.0048	.1691	-.1897
330.000	.0000	-.0618	-.0031	.0003	.0798	-.1958

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT34)

BETAT (1) = .361 ALPHAT(4) = -.338

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.5617	.7073	.7987	.9098	.8452	.2038	-.0653	-.1196	-.1827	-.1705	.1087	-.0071	.1143	.0147	-.0791
30.000		.7084	.7984	.8998	.6394	.2070	.0000	-.1235	-.1786	-.1653	.1144	.0642	-.1365	-.0470	-.0791
60.000		.7381	.7836	.8959	.6327	.1998	-.1203	-.1174	-.1840	-.1643	.1135	.2843	-.3186	-.1984	-.0752
90.000		.7493	.7833	.8991	.6349	.1983	-.0635	-.1251	-.1833	.1539	.5524	.2321	-.2705	-.2432	-.2391
120.000		.7490	.7833	.9008	.0000	.1977	-.0594	-.1168	-.1779	-.1620	.1762	.2414	-.1879	-.0253	-.0689
135.000			.7846	.9111	.6375	.0000	-.0645	.0000	-.1776	-.1659	.1288	.1467	.1303	.0477	-.0877
147.000		.7451	.7846	.9163	.6442	.0000	-.0594	-.1241	-.1735	-.1581	.1367	.1724	.2099	.1073	-.1231
162.000			.7864	.9234	.0000	.0000	-.0715	-.1142	-.1773	-.1633	.0000	.1717	.2694	-.1062	-.1138
180.000	1.5617	.7419	.7919	.9260	.0000	.2217	-.0377	-.1238	-.1687	-.1724	.1373	.1566	.3790	.2409	-.0810
198.000			.8049	.9338	.0000	.2500	-.0290	-.1314	-.1524	-.1478	.1138	.1319	.3375	-.1027	-.0657
213.000		.7323	.8217	.9153	.0000	.0000	-.1828	-.0601	-.1802	-.1854	.0520	.2000	.2785	.0774	.0644
225.000			.8538	.9333	.5694	.0000	-.0252	-.1295	-.1627	-.1377	.0956	.1274	.0077	.0262	-.0351
240.000		.7439	.8149	.9346	.6378	.2471	.0000	-.1212	-.1743	-.1543	.1348	.2674	-.1849	-.0159	-.0360
270.000		.7586	.8026	.9359	.6629	.2160	-.0597	-.1222	-.1708	.1209	.5025	.2671	-.2857	-.2337	-.1945
300.000		.7625	.7994	.9249	.6622	.2298	-.0625	-.1139	-.1718	-.1598	.1240	.2758	-.2217	-.1776	-.0845
330.000		.7506	.8010	.9163	.6513	.0000	-.0603	-.1158	-.1834	-.1674	.1116	.0000		-.0704	-.0778

X/LT	.5520	.8340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0552	-.0030	.0163	.0363	-.1760
30.000	-.0584	.0000	-.0133	.0217	.1264	-.1911
60.000	-.0367	-.0265	-.0200	.0399	.1949	-.1731
90.000	-.2338	-.0730	-.0689	.1043	.6160	-.1731
120.000	.0129	-.0385	-.0668	.1735	.3643	-.1654
135.000	.0225	-.0584	.0000	.3138	.3227	
147.000	.0209	-.0123	-.0200	.2627	.3169	-.2345
162.000	-.1262	.0525	-.0685	.2303	.2993	
180.000	-.1924	.0452	-.0663	.2093	.2558	-.2220
198.000	-.1726	-.1091	.0013	.1874	.1821	
213.000	-.0339	-.0177	-.0102	.1878	.1747	.0000
225.000	-.0100	-.0225	-.0471	.2081	.2311	
240.000	-.0084	.0000	-.0535	.1546	.2763	-.1783
270.000	-.2150	-.0372	-.0395	.0693	.5901	-.1825
300.000	-.0237	-.0190	-.0117	.0204	.1548	-.1786
330.000	.0000	-.0503	-.0025	.0175	.1068	-.1808

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT34)

BETAT (1) = .380 ALPHAT(5) = 1.906

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5573	.6249	.8870	.9562	.7011	.2500	-.0340	-.0901	-.1544	-.1440	.1510	-.0353	.1405	.0387	-.0533
30.000		.6588	.8375	.9420	.6874	.2497	.0000	-.0993	-.1568	-.1437	.1421	.1002	-.0550	-.0181	-.0618
60.000		.7157	.7960	.9158	.6589	.2234	-.1051	-.1032	-.1715	-.1580	.1437	.3689	-.2639	-.1421	-.0441
90.000		.7141	.7765	.8914	.6298	.1924	-.0621	-.1242	-.1858	.1449	.5398	.2042	-.2421	-.2164	-.0619
120.000		.7103	.7710	.8652	.0000	.1713	-.0755	-.1324	-.1918	-.1735	.0919	.1626	-.2309	-.1023	-.1401
135.000			.7669	.8636	.5978	.0000	-.0923	.0000	-.1944	-.1851	.0980	.1431	.0561	.0839	-.1255
147.000		.7119	.7640	.8630	.6026	.0000	-.0853	-.1498	-.1988	-.1780	.1078	.1543	.1914	.1125	-.1290
162.000			.7616	.8620	.0000	.0000	-.1006	-.1452	-.2014	-.1870	.0000	.1549	.2279	-.0857	-.1074
180.000	1.5573	.7109	.7623	.8565	.0000	.1745	-.0729	-.1509	-.1960	-.1932	.1008	.1357	.3701	.2085	-.0994
198.000			.7619	.8739	.0000	.2026	-.0589	-.1611	-.1785	-.1702	.0797	.1178	.3229	-.1010	-.0699
213.000		.7068	.7735	.8636	.0000	.0000	-.2063	-.0899	-.2039	-.2051	.0246	.1690	.2624	.0741	.0449
225.000			.7978	.8823	.5635	.0000	-.0526	-.1461	-.1767	-.1541	.0768	.1021	-.0551	.0376	-.0622
240.000		.7084	.7884	.8989	.6253	.2023	.0000	-.1407	-.1844	-.1689	.0999	.1850	-.2483	-.0409	-.1188
270.000		.7346	.8058	.9251	.6637	.2254	-.0513	-.1163	-.1812	.1133	.4990	.2672	-.2828	-.2266	-.0432
300.000		.7451	.8313	.9431	.6861	.2516	-.0478	-.1042	-.1631	-.1431	.1544	.3826	-.1619	-.1586	-.0381
330.000		.6892	.8636	.9591	.6934	.0000	-.0341	-.0899	-.1547	-.1432	.1459	.0000		-.0336	-.0691

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0297	-.0103	.0201	.0537	-.1651
30.000	-.0484	.0000	-.0199	.0208	.0925	-.1862
60.000	.0011	-.0259	-.0231	.0624	.1474	-.1673
90.000	-.0278	-.0444	-.0339	.1192	.4557	-.1657
120.000	-.0002	-.0339	-.0199	.2160	.3916	-.1757
135.000	-.0043	-.0699	.0000	.3783	.3597	
147.000	-.0481	-.0476	-.0014	.3223	.3399	-.2212
162.000	-.1570	-.0132	-.0590	.2853	.2955	
180.000	-.2069	-.0020	-.0129	.2666	.2569	-.2081
198.000	-.1847	-.1173	.0503	.2388	.2109	
213.000	-.0789	-.0297	.0268	.2499	.2074	.0000
225.000	-.0453	-.0246	-.0081	.2550	.2614	
240.000	-.0183	.0000	-.0142	.1908	.2968	-.1728
270.000	-.0462	-.0473	-.0186	.0698	.4889	-.1766
300.000	-.0030	-.0192	-.0056	.0424	.1436	-.1734
330.000	.0000	-.0304	-.0040	.0243	.1008	-.1875

ARC87-018 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT34)

BETAT (1) = .378 ALPHAT(8) = 3.888

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2881	.3362	.3804	.4446	.4987
PHI															
.000	1.5525	.5853	.9317	1.0022	.7530	.3051	-.0010	-.0802	-.1306	-.1159	.1927	-.0340	.1680	.0641	-.0216
30.000		.6157	.9023	.8757	.7325	.2888	.0000	-.0742	-.1414	-.1194	.1747	.1347	.0061	.0038	-.0482
60.000		.6842	.8241	.9298	.6781	.2437	-.0857	-.0921	-.1620	-.1469	.1709	.4487	-.2010	-.1271	-.0409
90.000		.6581	.7743	.8754	.6198	.1951	-.0669	-.1290	-.1877	.1400	.5226	.1590	-.2688	-.1787	-.0298
120.000		.6568	.7328	.8224	.0000	.1411	-.0924	-.1493	-.2098	-.1814	.0659	.0808	-.2704	-.1469	-.1474
135.000			.7130	.8092	.5599	.0000	-.1194	.0000	-.2112	-.2018	.0672	.1331	.0057	.0928	-.1413
147.000		.6342	.6967	.8034	.5580	.0000	-.1140	-.1716	-.2201	-.1950	.0806	.1312	.1808	.1195	-.1496
162.000			.6859	.7872	.0000	.0000	-.1283	-.1712	-.2211	-.2060	.0000	.1373	.2084	-.0442	-.1096
180.000	1.5525	.6278	.6962	.7737	.0000	.1389	-.1057	-.1760	-.2166	-.2131	.0684	.1264	.3786	.1777	-.1067
198.000			.6972	.7973	.0000	.1612	-.0889	-.1890	-.1998	-.1908	.0537	.1062	.3036	-.0879	-.0670
213.000		.6058	.6995	.7843	.0000	.0000	-.2333	-.1192	-.2246	-.2215	.0012	.1424	.2419	.0909	.0267
225.000			.7408	.8298	.5650	.0000	-.0851	-.1630	-.1927	-.1714	.0563	.0845	-.1048	.0935	-.0562
240.000		.6581	.7647	.8567	.6153	.1558	.0000	-.1509	-.2044	-.1873	.0684	.1107	-.2817	-.0864	-.0806
270.000		.6929	.8040	.9079	.6630	.2306	-.0590	-.1135	-.1860	.1036	.4706	.2678	-.3314	-.1598	.0077
300.000		.7015	.8624	.9547	.7069	.2652	-.0284	-.0884	-.1569	-.1404	.1782	.4930	-.1006	-.1687	-.0435
330.000		.6412	.9202	.9912	.7433	.0000	-.0065	-.0840	-.1330	-.1178	.1810	.0000		.0013	-.0534

X/LT	.5528	.6340	.7423	.8508	.9264	.9838
PHI						
.000	.0000	-.0239	-.0091	.0239	.0720	-.1631
30.000	-.0353	.0000	-.0161	.0309	.0937	-.1769
60.000	.0278	-.0071	-.0174	.0865	.1231	-.1672
90.000	.0338	-.0030	-.0072	.1384	.2548	-.1666
120.000	.0078	-.0180	-.0008	.2302	.3458	-.1589
135.000	-.0156	-.0409	.0000	.4005	.3756	
147.000	-.0946	-.0330	.0072	.3565	.3628	-.1608
162.000	-.1577	-.0397	-.0441	.3286	.3105	
180.000	-.1749	.0033	.0213	.3128	.2703	-.1788
198.000	-.1882	-.0983	.0858	.2789	.2301	
213.000	-.0975	-.0142	.0626	.2799	.2112	.0000
225.000	-.0556	-.0094	.0290	.2687	.2460	
240.000	.0012	.0000	.0188	.1994	.2313	-.1637
270.000	.0215	-.0058	.0188	.1317	.2192	-.1506
300.000	.0272	-.0081	.0058	.0795	.1005	-.1499
330.000	.0000	-.0180	-.0022	.0397	.0950	-.1847

APC87-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT34)

BETAT (1) = .385 ALPHAT(7) = 8.358

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.3821	.3362	.3904	.4445	.4987
PHI															
.000	1.5536	.5712	.9607	1.0469	.8100	.3819	.0360	-.0257	-.0999	-.0912	.2337	-.0170	.1942	.0935	.0117
30.000		.5914	.9331	1.0080	.7776	.3347	.0000	-.0493	-.1135	-.0993	.2080	.1638	.0454	.0295	-.0249
60.000		.6426	.8186	.9352	.6939	.2613	-.0649	-.0787	-.1530	-.1388	.1880	.5291	-.1227	-.1140	-.0478
90.000		.6272	.7741	.8560	.6037	.1877	-.0764	-.1361	-.1943	.1274	.4941	.1438	-.3107	-.2732	-.0141
120.000		.5959	.7162	.7751	.0000	.1130	-.1134	-.1678	-.2258	-.1514	.0347	-.0057	-.2061	-.1712	-.1061
135.000			.6810	.7547	.5181	.0000	-.1421	.0000	-.2296	-.2162	.0341	.1073	-.0268	.0481	-.1459
147.000		.6055	.6544	.7457	.5152	.0000	-.1431	-.1839	-.2360	-.2191	.0549	.1137	.1666	.1112	-.1968
162.000			.6347	.7240	.0000	.0000	-.1533	-.1927	-.2372	-.2233	.0000	.1162	.1948	-.0005	-.1067
180.000	1.5536	.5524	.6382	.7020	.0000	.0996	-.1329	-.1956	-.2385	-.2304	.0456	.1146	.3868	.1326	-.1201
198.000			.6369	.7350	.0000	.1165	-.1147	-.2134	-.2210	-.2081	.0395	.0954	.2784	.0891	-.0743
213.000		.5450	.6360	.7020	.0000	.0000	-.2620	-.1453	-.2462	-.2395	-.0221	.1166	.2165	.0756	-.0042
225.000			.6981	.7685	.5556	.0000	-.1204	-.1790	-.2103	-.1890	.0251	.0556	-.1607	.0458	-.0708
240.000		.6324	.7573	.8023	.5992	.1303	.0000	-.1590	-.2288	-.1945	.0354	.0332	-.2742	-.1889	-.0708
270.000		.6551	.8172	.8831	.6547	.2111	-.0752	-.1243	-.1854	.1015	.4480	.2484	-.3487	-.2255	.0142
300.000		.6730	.8951	.9681	.7282	.2879	-.0111	-.0712	-.1427	-.1333	.1959	.6079	-.0440	-.1300	-.0609
330.000		.6112	.9783	1.0274	.7906	.0000	.0234	-.0391	-.1112	-.0950	.2147	.0000		.0273	-.0219

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0105	.0004	.0155	.0607	-.1610
30.000	-.0172	.0000	-.0111	.0260	.1092	-.1680
60.000	.0404	-.0048	-.0079	.0705	.1943	-.1748
90.000	.0096	-.0169	.0067	.2045	.2934	-.1764
120.000	-.0079	-.0028	.0109	.2593	.3586	-.1552
135.000	-.0073	.0033	.0000	.4191	.4791	
147.000	-.0601	.0249	.0201	.3972	.3879	-.1581
162.000	-.1552	.0801	-.0262	.3674	.3272	
180.000	-.1797	.1021	.0601	.3586	.2852	-.1925
198.000	-.1409	-.0513	.1208	.3215	.2532	
213.000	-.1154	.0103	.0961	.3120	.2430	.0000
225.000	-.0528	.0128	.0677	.3038	.2711	
240.000	-.0029	.0000	.0560	.2455	.2427	-.1671
270.000	.0270	-.0239	.0289	.1911	.4062	-.1468
300.000	.0445	.0029	.0057	.0707	.2078	-.1501
330.000	.0000	.0064	.0047	.0435	.1040	-.1639

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT35) (04 SEP 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = -4.000
RUDDER = .000 SPDBRK = .000

ALPHAT(1) = -7.111 BETAT (1) = -3.952

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5549	.5875	.6317	.7036	.0000	.0854	-.1538	-.2000	-.2508	-.2372	-.0049	-.0107	.0241	-.0691	-.1613
30.000		.6410	.5974	.7777	.5351	.1290	.0000	-.1778	-.2321	-.2240	.0105	-.0630	-.2166	-.2418	-.1161
60.000		.6605	.5536	.8617	.6154	.1981	-.0733	-.1327	-.1967	-.1289	.1046	.0169	-.4638	-.2797	-.1639
90.000		.7412	.5766	.9688	.6672	.2830	-.0141	-.0772	-.1417	.2178	.5856	.1642	-.4468	-.1905	-.0967
120.000		.8213	.6416	1.0535	.0000	.3496	.0475	-.0176	-.0947	-.0865	.2620	.4085	-.0272	.0742	.2059
135.000			.8701	1.0792	.8341	.3787	.0710	.0000	-.0841	-.0735	.2711	.2495	.2780	.2017	.1119
147.000		.8542	.6855	1.0897	.8461	.0000	.0778	.0017	-.0821	-.0548	.2689	.2758	.4017	.2710	.0137
162.000			.6812	1.0833	.0000	.0000	.0536	-.0100	-.0657	-.0751	.2622	.2969	.4915	-.1210	-.1209
180.000	1.5549	.8392	.6661	1.0532	.0000	.3586	.0778	-.0107	-.1030	-.0829	.2338	.2860	.5694	.3780	.0011
198.000			.6915	1.0060	.0000	.3983	.0049	-.0268	-.1262	-.1149	.1973	.2511	.4617	-.2029	.0967
213.000		.7732	.7973	.7639	.0000	.0000	-.2242	-.0342	-.1674	-.1292	.1026	.2476	.3027	.0378	.0589
225.000			.7671	.9083	.4889	.0000	-.0305	-.1207	-.1800	-.1525	.1420	.2258	.2238	.1022	.0496
240.000		.6560	.5853	.8689	.5279	.2279	-.0959	-.1236	-.1994	-.0357	.1445	.3373	.1815	.1290	.0489
270.000		.6234	.6113	.7827	.5139	.1032	-.1256	-.1729	-.2418	.0384	.3131	.1745	-.4948	-.2233	-.2129
300.000		.5814	.6440	.6932	.4733	.0877	-.1514	-.1996	-.2554	-.0761	-.0287	.0591	-.3142	-.2362	-.1264
330.000		.5721	.6555	.6496	.4639	.0861	-.1601	-.2018	-.2505	-.2303	.0205	.0000		-.1145	-.1563

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1284	-.0566	-.0006	-.0166	.0381	-.1951
30.000	-.0877	.0000	-.0432	-.0463	.0675	-.2120
60.000	-.1633	-.1074	-.0106	-.0144	.2172	-.1929
90.000	-.2039	-.0267	-.0480	.0080	.7272	-.1919
120.000	.0848	.0207	-.0145	.0285	.3771	-.2016
135.000	.0899	.0084	-.0448	.2848	.4260	
147.000	.1248	.0658	-.0109	.1473	.4301	-.2244
162.000	-.0022	.0984	-.0814	.0720	.5229	
180.000	-.0880	.0374	.0034	.1097	.5293	-.1890
198.000	-.0893	.0023	-.0872	.0568	.4238	
213.000	-.0442	-.1198	-.0968	.0443	-.0341	-.1838
225.000	.0105	-.0254	-.1049	.0675	.1395	
240.000	-.0140	.0000	-.1110	.0623	.0918	-.1739
270.000	-.0810	-.1167	-.0659	.0536	.4810	-.1771
300.000	-.0975	-.0590	-.0260	.0099	.1613	-.1820
330.000	-.1086	-.0448	.0008	-.0037	.1394	-.1942

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT35)

ALPHAT(1) = -7.101 BETAT (2) = -1.755

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5637	.8023	.6552	.6977	.0000	.0890	-.1516	-.1987	-.2477	-.2341	.0088	.0082	.0445	-.0426	-.1553
30.000		.8248	.6491	.7489	.5179	.1128	.0000	-.1890	-.2412	-.2257	.0117	-.0516	-.1631	-.2079	-.1062
60.000		.8584	.6135	.8248	.5736	.1649	-.1055	-.1599	-.2171	-.1244	.0587	.0285	-.4629	-.2598	-.1359
90.000		.6933	.5905	.9077	.6339	.2335	-.0576	-.1147	-.1752	.1716	.5521	.1313	-.4658	-.1885	-.1233
120.000		.7634	.6340	.9951	.0000	.3021	.0090	-.0543	-.1260	-.1228	.2252	.4397	.0224	.0732	.1590
135.000			.6517	1.0358	.7864	.3345	.0351	.0000	-.1150	-.0930	.2382	.2171	.3077	.1820	.0765
147.000		.8137	.6721	1.0606	.8124	.0000	.0467	-.0272	-.0947	-.0784	.2353	.2763	.3859	.2527	-.0549
162.000			.7057	1.0729	.0000	.0000	.0390	-.0046	-.0841	-.0852	.2519	.2895	.4789	-.1255	-.1559
180.000	1.5637	.8531	.6987	1.0631	.0000	.3781	.0790	-.0232	-.0799	-.0907	.2446	.2828	.5551	.3793	.0109
198.000			.7273	1.0380	.0000	.3932	.0509	-.0308	-.0915	-.0965	.2239	.2789	.4504	-.1647	.0064
213.000		.7974	.7876	.8512	.0000	.0000	-.1728	.0009	-.1379	-.1166	.1139	.2587	.3514	.0826	.1045
225.000			.7997	.9812	.5537	.0000	.0028	-.0954	-.1506	-.1237	.1723	.2450	.2464	.1103	.0648
240.000		.6891	.6310	.9229	.5957	.2762	-.0566	-.0963	-.1778	-.1519	.1710	.4172	.1560	.1136	.0800
270.000		.6491	.6486	.8343	.5641	.1540	-.0966	-.1472	-.2199	.0682	.3503	.2171	-.4708	-.2198	-.1827
300.000		.6036	.6510	.7512	.5110	.1153	-.1338	-.1865	-.2438	-.1490	-.0140	.0445	-.3228	-.2602	-.0843
330.000		.5405	.6523	.6684	.4842	.0944	-.1535	-.1952	-.2484	-.2309	.0088	.0000		-.1440	-.1502

X/LT	.9528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1236	-.0506	.0099	-.0004	.0469	-.2034
30.000	-.0804	.0000	-.0255	-.0126	.0456	-.2121
60.000	-.1090	-.1001	-.0210	-.0075	.2294	-.2051
90.000	-.2321	-.0404	-.0626	.0737	.6758	-.1871
120.000	.0587	-.0011	-.0471	.0119	.3362	-.2076
135.000	.0903	-.0065	-.0880	.2644	.3644	
147.000	.1425	.0605	-.0980	.1512	.3378	-.2304
162.000	-.0189	.0595	-.0313	.1598	.4261	
180.000	-.0487	.0708	-.0629	.1589	.4299	-.2044
198.000	-.1090	-.0610	-.0944	.0695	.3071	
213.000	.0652	-.0307	-.0828	.0759	.0417	-.1967
225.000	.0513	-.0036	-.0979	.0912	.1358	
240.000	.0084	.0000	-.0941	.0763	.1450	-.1883
270.000	-.0798	-.1025	-.0670	.0494	.5041	-.1900
300.000	-.1014	-.0423	-.0323	-.0108	.1540	-.1908
330.000	-.0979	-.0471	-.0013	-.0020	.0950	-.1932

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT35)

ALPHAT(1) = -8.981 BETAT (3) = .386

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5574	.5327	.8458	.6704	.0000	.0994	-.1461	-.1947	-.2428	-.2268	.0287	.0143	.0517	-.0430	-.1514
30.000		.5946	.6580	.7150	.4934	.0975	.0000	-.1905	-.2380	-.2228	.0242	-.0359	-.0837	-.1736	-.0958
60.000		.6247	.8481	.7828	.5318	.1300	-.1158	-.1880	-.2219	-.1168	.0332	.0493	-.4565	-.2521	-.0977
90.000		.6556	.6305	.8853	.5950	.1836	-.0824	-.1337	-.1887	.1319	.4933	.0963	-.4857	-.1961	-.1520
120.000		.7187	.8452	.9375	.0000	.2471	-.0207	-.0834	-.1513	-.1345	.1940	.4751	.0761	.0650	.1206
135.000			.8683	.9908	.7343	.2881	.0061	.0000	-.1274	-.1076	.2121	.1941	.2952	.1512	.0472
147.000		.7940	.8821	1.0226	.7678	.0000	.0215	-.0443	-.1001	-.1017	.2128	.2647	.3629	.2279	-.0890
162.000			.7115	1.0470	.0000	.0000	.0319	-.0018	-.0984	-.0829	.2338	.2756	.4620	-.1644	-.1093
180.000	1.5574	.8427	.7413	1.0660	.0000	.3895	.0622	-.0292	-.0714	-.0818	.2481	.2423	.5176	.3837	.0045
198.000			.7645	1.0599	.0000	.3808	.0800	-.0369	-.0894	-.0841	.2328	.2381	.4354	-.1140	-.0094
213.000		.7690	.8300	.9359	.0000	.0000	-.1334	.0282	-.1126	-.1101	.1367	.2432	.3740	.1290	.1718
225.000			.8765	1.0271	.6341	.0000	.0328	-.0636	-.1205	-.0900	.2058	.2516	.2327	.1313	.0796
240.000		.6901	.7153	.9711	.6718	.3193	-.0343	-.0559	-.1474	-.1289	.2083	.4825	.0872	.0724	.1103
270.000		.6625	.6486	.8815	.6223	.2070	-.0643	-.1136	-.1947	.1135	.4344	.2496	-.4644	-.2219	-.1501
300.000		.6196	.6771	.7998	.5481	.1460	-.1140	-.1661	-.2259	-.1827	.0168	.0270	-.3532	-.2740	-.1113
330.000		.5857	.6502	.7194	.5059	.1074	-.1479	-.1893	-.2417	-.2259	.0152	.0000		-.1766	-.1119

X/LT	.5528	.6340	.7423	.8508	.9264	.9838
PHI						
.000	-.1285	-.0613	.0095	.0026	.0367	-.2018
30.000	-.0887	.0000	-.0114	-.0061	.0539	-.2172
60.000	-.0757	-.0852	-.0347	.0078	.1882	-.2121
90.000	-.2004	-.0722	-.0670	.0800	.6276	-.2063
120.000	.0272	-.0124	-.0925	.0595	.2791	-.1989
135.000	.0806	-.0329	-.1303	.2350	.2826	
147.000	.0987	.0118	-.0819	.1673	.2433	-.2108
162.000	-.0324	.0431	-.0551	.1451	.3162	
180.000	.0316	.0767	-.1338	.1325	.3521	-.2069
198.000	-.1177	-.0988	-.0880	.1029	.1940	
213.000	.1192	.0199	-.0593	.1145	.0866	-.1953
225.000	.0784	.0170	-.0829	.1412	.1367	
240.000	.0313	.0000	-.0806	.0762	.2141	-.2098
270.000	-.2221	-.0806	-.0561	.0338	.5594	-.2034
300.000	-.1374	-.0498	-.0342	.0004	.1972	-.2085
330.000	-.0893	-.0631	-.0142	-.0022	.0702	-.2148

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT35)

ALPHAT(1) = -7.063 BETAT (4) = 2.818

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1204	.1944	.2108	.2323	.2594	.2811	.3362	.3904	.4445	.4987
PHI															
.000	1.5946	.5268	.6321	.6798	.0000	.0919	-.1447	-.1935	-.2417	-.2243	.0178	.0078	.0548	-.0414	-.1581
30.000		.5365	.6588	.6710	.4794	.0942	.0000	-.1928	-.2413	-.2273	.0185	-.0153	-.0838	-.1060	-.1284
60.000		.5875	.6491	.7174	.4996	.1085	-.1354	-.1839	-.2401	-.1054	.0008	.0597	-.4400	-.2278	-.0753
90.000		.6353	.6383	.7907	.5143	.1446	-.1108	-.1632	-.2159	.0822	.4458	.0794	-.4987	-.2005	-.1884
120.000		.6854	.6405	.8765	.0000	.2057	-.0591	-.1178	-.1823	-.0250	.1569	.5348	.1254	.1058	.0756
135.000			.6520	.9283	.6812	.2545	-.0294	.0000	-.1507	-.1414	.1761	.1709	.2423	.1320	.0152
147.000		.7478	.6542	.9705	.7240	.0000	-.0071	-.0608	-.1262	-.1238	.1853	.2285	.3243	.1987	-.1319
162.000			.6872	1.0143	.0000	.0000	.0352	-.0288	-.1152	-.0983	.2111	.2439	.3706	-.1539	-.0795
180.000	1.5946	.7950	.7539	1.0454	.0000	.3842	.0462	-.0201	-.0801	-.0738	.2417	.2545	.5132	.3599	.0071
198.000			.8774	1.0677	.0000	.3663	.0988	-.0427	-.0507	-.0448	.2303	.2494	.4880	-.0613	-.0359
213.000		.7392	.9603	1.0051	.0000	.0000	-.1134	.0505	-.0901	-.0999	.1505	.2965	.3939	.1776	.1620
225.000			1.0582	1.0614	.7084	.0000	.0701	-.0417	-.0905	-.0830	.2299	.2528	.1972	.1592	.0972
240.000		.7187	.7920	1.0200	.7363	.3688	-.0039	-.0249	-.1218	-.0980	.2382	.4948	.0855	.0778	.1604
270.000		.7107	.8824	.9349	.6861	.8603	-.0242	-.0859	-.1806	.1442	.4984	.2891	-.4037	-.2838	-.1157
300.000		.8048	.8894	.8423	.8877	.1800	-.0895	-.1482	-.2078	-.1860	.0184	.0257	-.3322	-.2860	-.1312
330.000		.8312	.8688	.7843	.9233	.1218	-.1315	-.1778	-.2328	-.2214	.0172	.0000		-.2178	-.1087

X/LT	.9520	.8340	.7423	.9508	.9264	.9838
PHI						
.000	-.1288	-.0485	.0093	-.0006	.0467	-.2086
30.000	-.1072	.0000	-.0023	.0081	.0842	-.2118
60.000	-.0913	-.0449	-.0430	.0055	.1397	-.2032
90.000	-.0594	-.1223	-.0638	.0777	.5680	-.1948
120.000	.0145	-.0088	-.1142	.0947	.1647	-.1849
135.000	.0469	-.0689	-.1152	.1270	.2139	
147.000	.0498	-.0320	-.0984	.1424	.1992	-.1833
162.000	-.0414	.0534	-.1289	.1302	.1950	
180.000	.0040	.0470	-.1772	.1237	.3095	-.1958
198.000	-.1840	-.1110	-.0593	.0722	.3092	
213.000	.1452	.0388	-.0374	.1076	.1650	-.2008
225.000	.1078	.0478	-.0734	.1410	.2200	
240.000	.0723	.0000	-.0573	.2738	.2478	-.2194
270.000	-.2352	-.0275	-.0441	.0522	.0588	-.2088
300.000	-.2088	-.0787	-.0158	.0014	.2148	-.2118
330.000	-.0770	-.0813	-.0284	-.0193	.0794	-.2228

ARC87-019 IAB1 LVAP(ALL HL SEALED) EXTERNAL TANK (RETT35)

ALPHAT(1) = -0.343 BETAT (1) = 4.788

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0400	.0844	.1284	.1944	.2108	.2323	.2584	.2821	.3382	.3904	.4445	.4887
PHI															
.000	1.5490	.5832	.8233	.8852	.0000	.0939	-.1493	-.1981	-.2481	-.2308	.0069	-.0015	.0345	-.0749	-.1678
30.000		.5204	.8484	.8488	.4511	.0827	.0000	-.2028	-.2476	-.2308	.0284	.0156	-.1611	-.0846	-.1601
60.000		.5807	.8435	.8820	.4680	.0779	-.1509	-.2000	-.2462	-.0759	-.0099	.0957	-.4231	-.2310	-.1293
90.000		.8121	.8182	.7485	.5238	.1056	-.1322	-.1809	-.2352	.0527	.4270	.0871	-.4826	-.1946	-.2212
120.000		.8505	.5967	.8311	.0000	.1629	-.0895	-.1481	-.2017	.0502	.1330	.4884	.1677	.1485	.0292
135.000			.5853	.8788	.8389	.2133	-.0837	.0000	-.1727	-.1883	.1470	.1883	.2595	.1150	-.0170
147.000		.7040	.5840	.9313	.8812	.0000	-.0310	-.0850	-.1838	-.1378	.1578	.8441	.2981	.1882	-.1707
162.000			.8089	.9784	.0000	.0000	.0181	-.0981	-.1298	-.1180	.1812	.2435	.3872	-.2219	-.1015
180.000	1.5488	.7418	.7421	1.0278	.0000	.3884	.0281	-.0133	-.1030	-.0775	.2220	.2815	.5328	.3594	.0079
198.000			.9710	1.0686	.0000	.3514	.1092	-.0385	-.0488	-.0351	.2328	.2782	.4960	-.0736	.0292
213.000		.7473	1.1455	1.0746	.0000	.0000	-.0898	.0702	-.0801	-.0944	.1745	.3106	.4163	.2067	.2086
225.000			1.2107	1.0842	.7824	.0000	.1066	-.0185	-.0578	-.0318	.2350	.2727	.1473	.1837	.1234
240.000		.7943	.9332	1.0804	.7967	.4080	.0278	.0138	-.0911	-.0655	.2854	.4538	.0060	.0920	.2013
270.000		.7815	.8601	.9818	.7448	.3173	.0142	-.0478	-.1348	.2022	.5322	.3205	-.3514	-.2388	-.0878
300.000		.7027	.8340	.8713	.6330	.2208	-.0859	-.1198	-.1829	-.1608	.1183	.0361	-.3450	-.2901	-.1455
330.000		.8560	.8407	.7810	.5389	.1404	-.1209	-.1894	-.2260	-.2149	.0181	.0000		-.2500	-.1210

X/LT	.8628	.8340	.7423	.8508	.9284	.9838
PHI						
.000	-.1358	-.8713	-.0075	-.0024	.0377	-.1998
30.000	-.1158	.0000	-.0023	.0483	.1250	-.2085
60.000	-.0834	-.0584	-.0227	.0660	.1779	-.2239
90.000	-.0188	-.1318	-.0654	.1040	.4861	-.1898
120.000	-.0098	-.0217	-.1348	.1024	.1584	-.2008
135.000	.0200	-.0887	-.1261	.1315	.2039	
147.000	.0278	-.0531	-.1300	.1587	.1532	-.1868
162.000	-.0185	-.0065	-.1722	.1315	.2141	
180.000	-.0440	.0280	-.1847	.0953	.3429	-.1927
198.000	-.2548	-.1087	-.0592	.0469	.4211	
213.000	.1555	.0345	-.0144	.0937	.2058	-.1898
225.000	.1395	.0587	-.0528	.1481	.2580	
240.000	.1158	.0000	-.0286	.0712	.2833	-.2136
270.000	-.2053	-.0350	-.0279	.0241	.7124	-.2130
300.000	-.2193	-.1342	-.0086	-.0181	.2135	-.2127
330.000	-.0634	-.0980	-.0512	-.0511	.0857	-.2043

ARC97-019 (A8) LVAP(ALL-HL SEALED) EXTERNAL TANK (RETT35)

ALPHAT(2) = -4.839 BETAT (1) = -8.115

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5528	.5833	.6259	.7620	.5188	.1140	-.1313	-.1825	-.2343	-.2207	.0160	-.0100	.0250	-.0710	-.1359
30.000		.6566	.5792	.8407	.5818	.1875	.0000	-.1436	-.2017	-.1933	.0557	-.0206	-.2139	-.2364	-.1105
60.000		.7189	.5683	.9349	.6973	.2742	-.0520	-.0847	-.1528	-.1073	.1875	.0986	-.4213	-.2600	-.1225
90.000		.8027	.6131	1.0308	.7895	.3504	.0331	-.0341	-.1048	.2557	.6502	.2007	-.4348	-.2198	-.1079
120.000		.8497	.6559	1.0730	.0000	.3835	.0643	-.0067	-.0775	-.0617	.2760	.3281	-.1319	.0111	.2303
135.000			.6703	1.0772	.8339	.0000	.0620	.0000	-.0715	-.0656	.2614	.2878	.1236	.1721	.0878
147.000		.8395	.6610	1.0679	.8205	.0000	.0658	.0008	-.0623	-.0785	.2506	.2151	.3755	.2617	.0367
162.000			.6471	1.0356	.0000	.0000	.0445	-.0321	-.1109	-.0827	.0000	.2664	.4546	-.0946	-.1206
180.000	1.5528	.7851	.6320	.9830	.0000	.2576	-.0045	-.0325	-.1363	-.1137	.1767	.2254	.5362	.3323	-.0533
198.000			.6713	.9253	.0000	.3452	-.0711	-.0737	-.1763	-.1503	.1513	.1979	.4329	-.2456	.0395
213.000		.7093	.7578	.6520	.0000	.0000	-.2576	-.0953	-.2070	-.1545	.0685	.1950	.2426	-.0218	.0049
225.000			.7075	.8247	.4080	.0000	-.0765	-.1601	-.2123	-.1729	.1107	.1262	.1565	.0551	.0030
240.000		.6438	.6071	.8003	.4740	.1687	.0000	-.1578	-.2285	.0359	.1132	.3221	.1222	.1050	-.0018
270.000		.5869	.6349	.7194	.4791	.0679	-.1541	-.1848	-.2469	.0230	.3370	.1671	-.3906	-.2363	-.2480
300.000		.5539	.6537	.6480	.4602	.0901	-.1497	-.1909	-.2472	-.0540	.0012	.1745	-.2613	-.2134	-.0888
330.000		.5650	.6475	.6970	.4729	.0000	-.1535	-.1953	-.2495	-.2272	.0198	.0000		-.0768	-.1544

X/LT	.5528	.6340	.7423	.8506	.9264	.9839
PHI						
.000	.0000	-.0792	-.0096	.0323	.0459	-.1914
30.000	-.0713	.0000	-.0589	-.0351	.1149	-.1974
60.000	-.0973	-.0580	.0047	-.0055	.0388	-.1872
90.000	-.1867	-.0213	-.0147	.0147	.7349	-.2039
120.000	.1204	.0289	.0356	.0802	.4702	-.1978
135.000	.1092	.0321	.0000	.3257	.4862	
147.000	.1073	.0885	.0178	.2271	.5018	-.2177
162.000	-.0891	.1002	-.0525	.2473	.5513	
180.000	-.0558	-.0185	-.0376	.2372	.5018	-.2093
198.000	-.1062	-.0341	-.0274	.1100	.4129	
213.000	-.1525	-.1741	-.0684	.0872	-.0107	.0000
225.000	-.0393	-.0662	-.0474	.1200	.1775	
240.000	-.0415	.0000	-.0468	.1178	.1465	-.1858
270.000	-.0897	-.1019	-.0062	.1092	.4597	-.1840
300.000	-.0751	-.0465	.0386	.0643	.1612	-.1914
330.000	.0000	-.0643	.0186	.0430	.1155	-.2087

ARC97-019 IAB1 LVAP(ALLML SEALED) EXTERNAL TANK (RETT35)

ALPHAT(2) = -4.830 BETAT (2) = -3.981

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.5517	.6108	.6651	.7657	.5276	.1201	-.1288	-.1792	-.2328	-.2171	.0272	-.0096	.0423	-.0512	-.1321
30.000		.6584	.6801	.8319	.5737	.1694	.0000	-.1515	-.2096	-.1986	.0503	-.0279	-.1697	-.2139	-.1073
60.000		.7018	.6677	.9120	.6572	.2286	-.0635	-.1070	-.1737	-.1488	.1318	.0964	-.4220	-.2547	-.1165
90.000		.7504	.6546	.9879	.7391	.2926	-.0042	-.0888	-.1388	.2145	.6014	.1686	-.4345	-.2356	-.1225
120.000		.7900	.6900	1.0367	.0000	.3326	.0293	-.0357	-.1026	-.0911	.2363	.3397	-.1105	.0186	.1822
135.000			.7002	1.0506	.8009	.0000	.0420	.0000	-.0982	-.0938	.2322	.2291	.1977	.1558	.0589
147.000		.7998	.7031	1.0509	.8012	.0000	.0458	-.0233	-.1032	-.0869	.2297	.2272	.3666	.2285	-.0072
162.000			.7056	1.0383	.0000	.0000	.0238	-.0464	-.0966	-.0982	.0000	.2588	.4447	-.1093	-.1432
180.000	1.5517	.7763	.7224	1.0031	.0000	.2929	.0366	-.0398	-.1350	-.1088	.1913	.2447	.5194	.3384	-.0215
198.000			.7321	.9630	.0000	.3579	-.0252	-.0591	-.1471	-.1379	.1665	.2141	.4001	-.1992	.0605
213.000		.7271	.7899	.7437	.0000	.0000	-.2212	-.0553	-.1817	-.1463	.0919	.2086	.2780	.0329	.0383
225.000			.7802	.8986	.4648	.0000	-.0462	-.1382	-.1899	-.1566	.1364	.1722	.1888	.0621	.0262
240.000		.6431	.6862	.8589	.5298	.2116	.0000	-.1325	-.2103	-.0074	.1281	.3656	.0938	.0748	.0373
270.000		.5974	.6794	.7852	.5292	.1057	-.1311	-.1651	-.2319	.0498	.3676	.1770	-.3995	-.2255	-.2217
300.000		.5264	.6503	.7078	.5084	.1143	-.1375	-.1813	-.2406	-.1547	.0096	.1562	-.2840	-.2093	-.0784
330.000		.5399	.6529	.7183	.5080	.0000	-.1423	-.1905	-.2416	-.2175	.0253	.0000		-.0777	-.1203

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0603	.0019	-.0075	.0446	-.1786
30.000	-.0380	.0000	-.0360	-.0354	.0556	-.1995
60.000	-.0803	-.0543	-.0140	-.0097	.2209	-.1854
90.000	-.2187	-.0233	-.0376	-.0208	.7398	-.1809
120.000	.0736	.0095	-.0112	.0338	.3702	-.1802
135.000	.0834	.0153	.0000	.2572	.4088	
147.000	.0977	.0589	-.0077	.1521	.4302	-.2418
162.000	-.0216	.1028	-.0799	.1211	.5039	
180.000	-.1235	.0407	-.0071	.1262	.5135	-.1886
198.000	-.1210	-.0166	-.0840	.0754	.4037	
213.000	-.0784	-.1159	-.0878	.0577	.0275	.0000
225.000	-.0178	-.0357	-.0920	.0783	.1535	
240.000	-.0348	.0000	-.1005	.0788	.1219	-.1887
270.000	-.0880	-.0875	-.0503	.0788	.5307	-.1881
300.000	-.0870	-.0487	-.0378	.0249	.1358	-.1781
330.000	.0000	-.0513	-.0049	.0033	.1021	-.1844

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RE/T35)

ALPHAT(2) = -4.811 BETAT (3) = .396

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5562	.5866	.6873	.7433	.5312	.1256	-.1228	-.1733	-.2279	-.2121	.0515	.0089	.0699	-.0235	-.1276
30.000		.5942	.6870	.7788	.5412	.1330	.0000	-.1644	-.2206	-.2027	.0518	-.0011	-.0778	-.1352	-.1060
60.000		.6291	.7289	.8144	.5678	.1512	-.1042	-.1549	-.2095	-.1743	.0656	.1225	-.4033	-.2570	-.1222
90.000		.6374	.7664	.8673	.6158	.1893	-.0765	-.1310	-.1853	.1437	.0156	.1116	-.4072	-.2507	-.1816
120.000		.6656	.8019	.9245	.0000	.2332	-.0319	-.0931	-.1590	-.1459	.1759	.3802	-.0410	-.0012	.0780
135.000			.8259	.9610	.7004	.0000	-.0099	.0000	-.1504	-.1236	.1839	.1528	.2563	.1116	.0135
147.000		.6934	.8505	.9842	.7260	.0000	-.0045	-.0682	-.1272	-.1203	.1845	.2057	.3139	.1578	-.0939
162.000			.8702	1.0023	.0000	.0000	-.0058	-.0462	-.1218	-.1110	.0000	.1957	.3670	-.0902	-.0983
180.000	1.5562	.7276	.8945	1.0139	.0000	.3341	.0305	-.0624	-.1129	-.1087	.2106	.2210	.4146	.3059	-.0418
198.000			.9122	1.0130	.0000	.3389	.0436	-.0694	-.1005	-.0961	.1731	.1999	.4358	-.0870	-.0189
213.000		.7040	.9642	.9332	.0000	.0000	-.1456	-.0042	-.1367	-.1375	.1003	.2322	.3218	.1113	.1134
225.000			.9694	.9923	.6046	.0000	.0162	-.0875	-.1313	-.1042	.1826	.1896	.1384	.1064	.0259
240.000		.6656	.8609	.9638	.6523	.3053	.0000	-.0718	-.1575	-.1346	.1902	.4395	-.0270	.0021	.0904
270.000		.6505	.7995	.9013	.6357	.1980	-.0695	-.1091	-.1804	.1127	.4816	.2489	-.5168	-.2490	-.1549
300.000		.6454	.7294	.8375	.5854	.1765	-.0937	-.1463	-.2092	-.1866	.0595	.1099	-.3189	-.2426	-.0942
330.000		.5683	.6777	.7940	.5548	.0000	-.1233	-.1707	-.2253	-.2058	.0483	.0000		-.1482	-.1185

X/LT	.5528	.6340	.7423	.8306	.9264	.9838
PHI						
.000	.0000	-.0629	.0112	.0100	.0460	-.1919
30.000	-.0823	.0000	-.0012	.0018	.0751	-.2012
60.000	-.0543	-.0432	-.0467	.0154	.1687	-.1954
90.000	-.2045	-.0671	-.0524	.0971	.6609	-.1893
120.000	.0295	-.0238	-.0776	.0720	.3060	-.1778
135.000	.0543	-.0391	.0000	.2358	.3891	
147.000	.0708	.0125	-.0607	.1747	.4709	-.2034
162.000	-.0680	.0500	-.0494	.1573	.3681	
180.000	-.0747	.0733	-.1190	.1418	.3533	-.2098
198.000	-.1197	-.0887	-.0574	.1152	.1808	
213.000	.0612	.0118	-.0523	.1259	.1108	.0000
225.000	.0479	.0048	-.0321	.1412	.1643	
240.000	.0254	.0000	-.0799	.0857	.2345	-.1989
270.000	-.2769	-.0353	-.0411	.0793	.6270	-.1986
300.000	-.0588	-.0435	-.0485	.0071	.1891	-.1992
330.000	.0000	-.0617	-.0090	-.0051	.0570	-.2025

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT35)

ALPHAT(2) = -4.748 BETAT (4) = 4.751

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5473	.6300	.8541	.7848	.5333	.1275	-.1214	-.1734	-.2285	-.2134	.0356	.0002	.0555	-.0595	-.1429
30.000		.5442	.8282	.7073	.5122	.1073	.0000	-.1900	-.2371	-.2167	.0351	.0294	-.1210	-.0784	-.1400
60.000		.5256	.8345	.6983	.5003	.1000	-.1360	-.1858	-.2371	-.1308	.0258	.1725	-.3749	-.2277	-.1072
90.000		.6044	.6862	.7481	.5157	.1084	-.1310	-.1788	-.2234	.0783	.4811	.1408	-.3857	-.2485	-.2365
120.000		.6121	.7133	.8104	.0000	.1442	-.1001	-.1533	-.2110	-.0147	.1076	.3955	.0692	.0661	.0242
135.000			.7338	.8618	.6038	.0000	-.0860	.0000	-.1881	-.1807	.1232	.1294	.2210	.0658	-.0471
147.000		.6435	.7457	.8912	.6404	.0000	-.0662	-.1103	-.1735	-.1600	.1397	.1967	.2732	.1427	-.2072
162.000			.7680	.9384	.0000	.0000	-.0197	-.0879	-.1578	-.1471	.0000	.1970	.3092	-.2440	-.1314
180.000	1.5473	.6887	.8138	.9817	.0000	.3265	-.0095	-.0507	-.1318	-.1121	.1842	.2216	.5023	.3193	-.0258
198.000			.8947	1.0240	.0000	.3095	.0611	-.0670	-.0797	-.0684	.1918	.2472	.4424	-.0845	.0191
213.000		.7194	.9125	1.0311	.0000	.0000	-.1163	.0361	-.1058	-.1251	.1480	.2684	.3922	.1761	.1654
225.000			1.0179	1.0487	.7285	.0000	.0882	-.0431	-.0710	-.0487	.2084	.2408	.0360	.1343	.0837
240.000		.7550	.9377	1.0490	.7769	.4008	.0000	-.0135	-.0985	-.0894	.2605	.3744	-.0805	.0268	.1978
270.000		.7447	.8757	1.0745	.7580	.3148	.0059	-.0434	-.1212	.1991	.5797	.3295	-.4804	-.2349	-.1068
300.000		.6883	.8101	.9173	.6808	.2528	-.0378	-.0978	-.1633	-.1429	.1508	.1141	-.3178	-.2397	-.1047
330.000		.6811	.7225	.8314	.5982	.0000	-.0869	-.1407	-.2024	-.1863	.0876	.0000		-.2139	-.1048

X/LT	.5528	.6340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0810	-.0111	.0150	.0407	-.1926
30.000	-.1131	.0000	-.0063	.0519	.1201	-.1965
60.000	-.0867	-.0387	-.0162	.0831	.1758	-.2277
90.000	-.0775	-.0880	-.0822	.1348	.9520	-.1711
120.000	-.0282	-.0168	-.1263	.1434	.1898	-.1907
135.000	.0020	-.0561	.0000	.1704	.2385	
147.000	.0043	-.0491	-.1181	.1840	.1825	-.1788
162.000	-.0784	-.0318	-.1783	.1595	.2107	
180.000	-.1188	.0020	-.1894	.1231	.3398	-.2029
198.000	-.3023	-.1282	-.0570	.0738	.4208	
213.000	.1286	.0208	-.0127	.1000	.2218	.0000
225.000	.1211	.0498	-.0423	.1381	.2670	
240.000	.0974	.0000	-.0288	.0782	.2743	-.2106
270.000	-.2228	-.0229	-.0302	.0125	.7357	-.2119
300.000	-.0886	-.0443	-.0238	-.0050	.2199	-.2100
330.000	.0000	-.0842	-.0519	-.0298	.0817	-.2251

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT36)

ALPHAT(2) = -4.711 BETAT (6) = 8.887

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2921	.3362	.3904	.4445	.4987
PHI															
.000	1.9516	.5584	.6442	.7552	.5156	.1202	-.1275	-.1728	-.2305	-.2150	.0177	-.0128	.0311	-.0813	-.1442
30.000		.5434	.6622	.6717	.4713	.0863	.0000	-.1987	-.2480	-.2285	.0200	.0226	-.0827	-.0921	-.1672
60.000		.5139	.6494	.6439	.4488	.0787	-.1533	-.2009	-.2522	-.0780	.0107	.1848	-.3705	-.2114	-.1184
90.000		.5709	.6519	.6782	.4623	.0758	-.1569	-.2068	-.2541	.0362	.4350	.1849	-.3679	-.2462	-.2623
120.000		.6071	.6228	.7572	.0000	.1067	-.1250	-.1824	-.2327	.0385	.0765	.3742	.1131	.1359	-.0388
135.000			.6250	.8088	.5482	.0000	-.1056	.0000	-.2089	-.1978	.0881	.1407	.2275	.0530	-.0843
147.000		.6417	.5674	.8448	.5967	.0000	-.0724	-.1218	-.1939	-.1818	.1149	.1823	2329	.0862	-.1734
162.000			.6067	.8937	.0000	.0000	-.0326	-.1039	-.1593	-.1638	.0000	.1855	.3002	-.2731	-.1827
180.000	1.5518	.6609	.6924	.9597	.0000	.3070	-.0167	-.0457	-.1399	-.1172	.1690	.2095	.4726	.2917	-.0770
198.000			.8878	1.0222	.0000	.2949	.0687	-.0562	-.0778	-.0590	.2215	.2384	.4330	.0338	.0984
213.000		.7281	.8798	1.0298	.0000	.0000	-.1231	.0500	-.1007	-.1811	.1747	.2831	.3827	.0010	.1810
225.000			1.0477	1.0738	.7839	.0000	.1238	-.0180	-.0386	-.0840	.2603	.2818	-.0397	.1497	.1878
240.000		.8168	.9050	1.0844	.8336	.4483	.0000	.0081	-.0848	-.0408	.2959	.3837	-.1088	.0210	.2486
270.000		.8383	.7843	1.0433	.8054	.3734	.0455	-.0018	-.0894	.2374	.6332	.3605	-.4259	-.2295	-.0881
300.000		.7493	.7298	.9551	.7130	.2949	-.0065	-.0873	-.1418	-.1187	.2011	.1240	-.3089	-.2441	-.0998
330.000		.6865	.6546	.8410	.6077	.0000	-.0724	-.1278	-.1929	-.1862	.0688	.0000		-.2454	-.1113

X/LT	.8528	.8340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.1056	.0170	.0379	.0397	-.2111
30.000	-.1128	.0000	.0249	.0185	.1112	-.2114
60.000	-.0497	.0177	.0313	.0513	.2074	-.2352
90.000	-.0119	-.0118	-.0095	.1311	.4441	-.1886
120.000	-.0618	-.0351	-.0852	.175	.2557	-.2030
135.000	-.0360	-.0569	.0000	.2477	.2480	
147.000	-.0074	-.0597	-.0804	.2265	.1324	-.1978
162.000	-.0278	-.0898	-.2546	.1850	.2141	
180.000	-.1641	-.0223	-.2327	.1479	.3533	-.2181
198.000	-.3064	-.1829	-.0487	.0732	.6269	
213.000	.1583	.0406	.0051	.1301	.2669	.0000
225.000	.1879	.0942	-.0315	.1825	.3171	
240.000	.1253	.0000	.0217	.1118	.3651	-.2082
270.000	-.1914	-.0239	-.0544	.0009	.7325	-.2207
300.000	-.1015	-.0418	-.0057	.0125	.2528	-.2201
330.000	.0000	-.0935	-.0643	-.0147	.1159	-.2432

ARC97-019 1A81 LVAP(ALUM SEALED) EXTERNAL TANK (RETT35)

ALPHAT(3) = -2.566 BETAT (1) = -8.117

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2584	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.5527	.5975	.6772	.8268	.5742	.1577	-.1050	-.1588	-.2153	-.2038	.0475	-.0093	.0425	-.0515	-.1231
30.000		.8933	.6348	.8957	.6365	.2350	.0000	-.1100	-.1756	-.1682	.1028	.0198	-.1625	-.2065	-.1019
60.000		.7562	.6348	.9811	.7379	.3034	-.0183	-.0844	-.1358	-.1151	.2091	.1819	-.3685	-.2207	-.1061
90.000		.8010	.6633	1.0450	.7986	.3532	.0348	.0310	-.1022	.2452	.6614	.1893	-.3743	-.2358	-.1990
120.000		.8187	.6639	1.0499	.0000	.3558	.0422	-.0249	-.0990	-.0831	.2440	.2558	-.1919	-.0354	.1526
135.000			.6604	1.0359	.7895	.0000	.0316	.0006	-.1028	-.0893	.2213	.2677	-.0001	.1204	.0657
147.000		.7942	.6539	1.0189	.7714	.0000	.0223	-.0345	-.1115	-.1105	.2024	.1638	.3188	.2442	.0125
162.000			.6467	.3801	.0000	.0000	.0088	-.0673	-.1458	-.1184	.0000	.2229	.4101	-.1113	-.1449
180.000	1.5527	.7352	.6444	.9322	.0000	.2068	-.0467	-.0695	-.1644	-.1490	.1339	.1913	.5023	.2957	-.0827
198.000			.6884	.8853	.0000	.2921	-.0949	-.1051	-.1993	-.1718	.1275	.1596	.3690	-.2512	-.0077
213.000		.8801	.7412	.8503	.0000	.0000	-.2618	-.1083	-.2223	-.1255	.0401	.1641	.2413	-.0251	-.0532
225.000			.7188	.8137	.3969	.0000	-.0920	-.1781	-.2224	-.1428	.0915	.0712	.1301	.0125	-.0336
240.000		.8207	.8578	.7824	.4776	.1500	.0000	-.1660	-.2380	.0271	.0944	.3349	.0308	.0237	.0128
270.000		.5575	.6682	.7104	.4977	.0840	-.1507	-.1910	-.2397	.0434	.3890	.1709	-.3078	-.2317	-.2487
300.000		.5382	.6594	.6794	.4918	.0990	-.1462	-.1858	-.2367	-.1102	.0259	.2416	-.2143	-.1711	-.0756
330.000		.5736	.6796	.7550	.5148	.0000	-.1305	-.1781	-.2354	-.2184	.0317	.0000		-.0715	-.1393

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0875	-.0248	.0348	.0529	-.1902
30.000	-.0401	.0000	-.0530	-.0462	.0956	-.1863
60.000	-.0654	-.0926	.0145	.0010	.2201	-.1802
90.000	-.1972	-.0437	-.0174	-.0151	.7232	-.1960
120.000	.0939	.0125	.0337	.0917	.5171	-.1921
135.000	.0843	.0129	.0000	.3414	.5383	
147.000	.0779	.0675	.0151	.2484	.5528	-.2209
162.000	-.1182	.0704	-.0532	.2718	.5718	
180.000	-.0984	-.0260	-.0321	.2472	.5000	-.2070
198.000	-.1246	-.0238	-.0178	.1406	.4005	
213.000	-.1783	-.1774	-.0442	.1214	.0323	.0000
225.000	-.0497	-.0784	-.0189	.1505	.2059	
240.000	-.0529	.0000	-.0077	.1486	.1766	-.1902
270.000	-.1358	-.0939	.0112	.1183	.5619	-.1892
300.000	-.0819	-.0392	.0394	.0856	.1979	-.1986
330.000	.0000	-.0856	.0028	.0503	.1343	-.2088

ARC97-019 1A81 LVAP(ALLML SEALED) EXTERNAL TANK (RETT35)

ALPHAT(3) = -2.588 BETAT (2) = -1.787

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5558	.6717	.7309	.8453	.5898	.1840	-.0978	-.1482	-.2070	-.1938	.0714	-.0117	.0817	-.0091	-.1079
30.000		.6793	.7642	.8660	.6085	.1874	.0000	-.1367	-.1975	-.1854	.0842	.0204	-.0699	-.1471	-.0984
60.000		.6761	.7965	.9016	.6473	.2153	-.0671	-.1186	-.1825	-.1686	.1073	.1921	-.3620	-.2377	-.1057
90.000		.6873	.8221	.9417	.6806	.2470	-.0444	-.1062	-.1679	.1738	.5746	.1553	-.3418	-.2578	-.2133
120.000		.6953	.8474	.9621	.0000	.2602	-.0281	-.0848	-.1485	-.1382	.1648	.2826	-.1518	-.0298	.0695
135.000			.8570	.9750	.7117	.0000	-.0138	.0000	-.1495	-.1404	.1699	.1713	.1652	.0863	-.0111
147.000		.8995	.8657	.9783	.7162	.0000	-.0106	-.0781	-.1514	-.1294	.1699	.1707	.3066	.1636	-.0761
162.000			.8541	.9754	.0000	.0000	-.0326	-.0862	-.1377	-.1433	.0000	.1684	.4053	-.1028	-.1879
180.000	1.5558	.7155	.8583	.9666	.0000	.2560	-.0017	-.0878	-.1504	-.1472	.1651	.1806	.3856	.2828	-.0431
198.000			.8573	.9472	.0000	.3009	-.0163	-.0980	-.1409	-.1356	.1410	.1838	.2999	-.1207	.0423
213.000		.6995	.9026	.8453	.0000	.0000	-.1833	-.0506	-.1738	-.1728	.0659	.1793	.2689	.0608	.0667
225.000			.8964	.9242	.5117	.0000	-.0319	-.1301	-.1724	-.1459	.1368	.1432	.1115	.0546	-.0168
240.000		.6717	.7926	.8973	.5816	.2339	.0000	-.1180	-.1961	-.1737	.1349	.3885	-.0818	-.0492	.0156
270.000		.6352	.7341	.8662	.5963	.1615	-.0988	-.1453	-.2025	.0763	.4399	.2346	-.3739	-.2085	-.2082
300.000		.6291	.7092	.8171	.5816	.1685	-.1004	-.1485	-.2109	-.1957	.0653	.2225	-.2594	-.1904	-.1006
330.000		.6377	.7134	.8079	.5787	.0000	-.1017	-.1514	-.2122	-.1971	.0656	.0000		-.0692	-.1018

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0621	.0055	.0092	.0463	-.1820
30.000	-.0410	.0000	-.0105	-.0012	.0563	-.1906
60.000	-.0384	-.0215	-.0541	-.0041	.1913	-.1910
90.000	-.2402	-.0175	-.0404	.0699	.7350	-.1781
120.000	.0220	-.0226	-.0433	.0734	.3257	-.1871
135.000	.0575	-.0130	.0000	.2300	.3918	
147.000	.0794	.0284	-.0659	.1800	.4186	-.2137
162.000	-.0713	.0844	.0210	.2158	.4374	
180.000	-.1805	.0749	-.0600	.1939	.3959	-.2060
198.000	-.1405	-.0554	-.0733	.1130	.2954	
213.000	-.0545	-.0448	-.0542	.1136	.1124	.0000
225.000	-.0107	-.0417	-.0663	.1313	.1747	
240.000	-.0247	.0000	-.0704	.1223	.1808	-.1708
270.000	-.1710	-.0493	-.0330	.0783	.5536	-.1733
300.000	-.0314	-.0315	-.0235	.0059	.1408	-.1727
330.000	.0000	-.0595	-.0009	.0048	.1067	-.1775

ARC97-019 IAS1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT35)

ALPHAT(3) = -2.533 BETAT (3) = 2.578

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2584	.2821	.3382	.3904	.4445	.4987
PHI															
.000	.7815	.7768	.7851	.5801	.1498	-.1033	-.1566	-.2109	-.1835	.0631	.2352	-.3471	-.2075	-.0842	-.0493
30.000		.7989	.8168	.5749	.1574	-.1017	.0000	-.2112	.1054	.4981	.1852	-.3294	-.2474	-.2316	-.1431
60.000		.8239	.8484	.0000	.1783	-.0782	-.1325	-.1940	-.1714	.1185	.3192	-.0734	-.0303	-.0044	-.0084
90.000		.8557	.8770	.6105	.0000	-.(941	.0000	-.1858	-.1669	.1307	.1018	.2117	.0627	-.0448	.0300
120.000		.8757	.9011	.6301	.0000	-.06.9	-.1162	-.1652	-.1628	.1407	.1823	.2716	.1631	-.2093	.0250
135.000			.9250	.0000	.0000	-.0438	-.0845	-.1671	-.1504	.0000	.1839	.2749	-.2267	-.1158	-.1090
1:7.000		.9444	.9526	.0000	.2793	-.0240	-.0857	-.1452	-.1348	.1451	.1778	.4570	.2803	-.0520	-.1025
162.000			.9761	.0000	.2781	.0242	-.1023	-.1142	-.1071	.1428	.2025	.4086	-.1054	-.0658	-.2516
180.000	.7815	.8843	.9752	.0000	.0000	-.1466	-.0135	-.1449	-.1558	.0868	.2322	.3430	.1240	.1130	.0951
198.000			.9862	.6452	.0000	.0317	-.0876	-.1144	-.0991	.1348	.1694	.0272	.0753	.0362	.0541
213.000		.8487	.9922	.6981	.3275	.0000	-.0723	-.1357	-.1163	.1936	.3217	-.1425	-.0407	.1177	.0244
225.000			.9727	.7082	.2560	-.0316	-.0839	-.1450	.1519	.5358	.3021	-.3796	-.2028	-.1752	-.2594
240.000		.8213	.9298	.6726	.2434	-.0453	-.0979	-.1653	-.1561	.1263	.1921	-.2788	-.2109	-.0999	-.0447
270.000		.7673	.8826	.6284	.0000	-.0742	-.1273	-.1898	-.1890	.0972	.0000	-.0796	-.1562	-.0893	.0000
300.000		.8398	.5913	.1694	-.0920	-.1431	-.2015	-.1882	.0795	-.0124	.0925	-.0130	-.1124	.0000	-.0778
330.000		.7985	.5705	.1598	-.6826	.0000	-.2059	-.1921	.0732	.0439	-.1383	-.0529		-.0956	.0000

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0228	-.0229	.0359	.1381	-.1745	.2210
30.000	-.0790	.0000	.0844	.6236	-.1653	.2038
60.000	-.0181	-.0972	.1498	.1979	-.1644	.0000
90.000	-.0527	.0000	.1655	.2362	-.1726	.1110
120.000	-.0031	-.0872	.1788	.1919	-.2004	.2785
135.000	.0148	-.1422	.1684	.1667	.0000	
147.000	.0060	-.1768	.1515	.2868	-.1969	.1588
162.000	-.1508	-.0542	.1081	.3293	-.1934	
180.000	.0097	-.0263	.1318	.2230	-.1922	.1716
198.000	.0176	-.0604	.1614	.2642	-.1988	
213.000	.0000	-.0342	.1095	.2472	-.1647	.2332
225.000	-.0113	-.0191	.1028	.0000	.0000	
240.000	-.0301	-.0448	.0058	.2133	.1272	.3884
270.000	-.0808	-.0222	-.0021	.0580	.1529	.5530
300.000	-.0009	.0178	.0867	-.[illegible]30	.1748	.8287
330.000	-.0022	.0244	.0883	-.1758	.1898	.4029

ARC97-019 IA81 LVAP(ALLML SEALED) EXTERNAL TANK (RETT35)

ALPHAT(3) = -2.474 BETAT (4) = 6.886

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5433	.5526	.7222	.8070	.5728	.1599	-.0937	-.1457	-.2041	-.1952	.0525	-.0059	.0538	-.0564	-.1262
30.000		.9837	.7098	.7357	.5165	.1115	.0000	-.1784	-.2284	-.2184	.0356	.0404	-.0576	-.0735	-.1458
60.000		.5300	.8182	.8670	.4738	.0819	-.1441	-.1951	-.2445	-.0892	.0209	.2281	-.2879	-.1759	-.0867
90.000		.5176	.8357	.8866	.4735	.0859	-.1538	-.1986	-.2452	.0550	.4603	.1940	-.3178	-.2519	-.2581
120.000		.5911	.6532	.7370	.0000	.1004	-.1317	-.1849	-.2379	.0003	.0589	.2812	.0284	.0107	-.0594
135.000			.6859	.7818	.5177	.0000	-.1178	.0000	-.2180	-.2094	.0841	.1233	.1892	.0209	-.1230
147.000		.6000	.6821	.8121	.5474	.0000	-.0998	-.1406	-.2073	-.1981	.0949	.1682	.2070	.0822	-.2240
162.000			.6782	.8529	.0000	.0000	-.0592	-.1280	-.1817	-.1830	.0000	.1621	.2572	-.2665	-.2082
180.000	1.5433	.6383	.7514	.9038	.0000	.2582	-.0485	-.0762	-.1681	-.1483	.1250	.1796	.4405	.2495	-.1313
198.000			.8304	.9778	.0000	.2426	.0304	-.0847	-.1125	-.0910	.1724	.1965	.4128	-.0545	.0520
213.000		.7206	.8025	.9608	.0000	.0000	-.1621	.0135	-.1457	-.1521	.1225	.2245	.2939	.1606	.1252
225.000			.9518	1.0332	.7418	.0000	.0779	-.0364	-.0631	-.0505	.2233	.2427	-.0939	.0804	.1243
240.000		.8263	.9364	1.0609	.7957	.4132	.0000	-.0294	-.0737	-.0643	.2574	.2955	-.1778	-.0458	.1979
270.000		.7983	.9145	1.0577	.8180	.3572	.0510	-.0162	-.0785	.2169	.6369	.3684	-.4010	-.1683	-.1104
300.000		.7401	.8368	.9996	.7533	.3282	.0244	-.0421	-.1171	-.1017	.2318	.1984	-.2773	-.2173	-.0699
330.000		.6821	.7623	.8966	.6598	.0000	-.0390	-.0936	-.1602	-.1523	.1165	.0000		-.2075	-.0959

X/LT	.5528	.6340	.7423	.8508	.9264	.9838
PHI						
.000	.0000	-.1038	.0131	.0338	.0513	-.1954
30.000	-.1105	.0000	.0357	.0326	.1019	-.1967
60.000	-.0466	.0210	.0401	.0681	.1834	-.2031
90.000	-.0849	-.0281	.0020	.1401	.5232	-.1731
120.000	-.0725	-.0268	-.0680	.2000	.2903	-.1951
135.000	-.0454	-.0829	.0000	.2807	.2648	
147.000	-.0311	-.0698	-.0508	.2596	.2022	-.1852
162.000	-.0722	-.0801	-.2480	.2237	.1993	
180.000	-.1005	-.0383	-.2412	.1842	.3323	-.2219
198.000	-.3228	-.2078	-.0563	.1148	.5292	
213.000	.1338	.0827	-.0006	.1630	.3187	.0000
225.000	.1383	.0006	-.0434	.1006	.3888	
240.000	.0874	.0000	.0847	.1898	.4080	-.2021
270.000	-.1880	-.0878	-.0588	.0217	.7351	-.2073
300.000	-.0881	-.0325	-.0117	.0158	.2441	-.2098
330.000	.0000	-.0722	-.0674	-.0041	.0997	-.2184

ARC87-019 IASI LVAP(ALUM. SEALED) EXTERNAL TANK (RETT36)

ALPHAT(4) = -.884 BETAT (1) = -8.116

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1284	.1944	.2106	.2323	.2884	.3081	.3382	.3804	.4446	.4887
PHI															
.000	1.0000	.8005	.7208	.8002	.8884	.1887	-.0712	-.1843	-.1878	-.1788	.0844	-.0087	.0618	-.0312	-.0882
30.000		.7534	.8744	.5888	.8888	.2770	.0000	-.0782	-.1480	-.1378	.1488	.0814	-.1189	-.1727	-.0782
60.000		.7881	.8852	1.0182	.7750	.3382	.0132	-.0398	-.1147	-.1008	.2280	.2487	-.3208	-.1788	-.0682
90.000		.8039	.8858	1.0482	.8011	.3551	.0376	-.0300	-.0988	.2458	.8700	.2104	-.3023	-.2189	-.1838
120.000		.7896	.8779	1.0196	.0000	.3207	.0277	-.0382	-.1157	-.1025	.2254	.1871	-.2520	-.0179	.0080
135.000			.8883	.8874	.7479	.0000	.0077	.0000	-.1308	-.1131	.1776	.2133	-.0909	.0702	.0251
147.000		.7488	.8821	.8703	.7282	.0000	-.0187	-.0718	-.1353	-.1334	.1584	.1125	.2254	.2215	.0219
162.000			.8788	.8324	.0000	.0000	-.0258	-.0951	-.1726	-.1486	.0000	.1788	.3701	-.0535	-.1509
180.000	1.0020	.8878	.8737	.8841	.0000	.1874	-.0843	-.1043	-.1884	-.1750	.0975	.1495	.4851	.2837	-.0952
198.000			.7088	.8375	.0000	.2428	-.1178	-.1358	-.2137	-.1804	.0822	.1387	.3030	-.2477	-.0034
213.000		.8888	.7388	.8478	.0000	.0000	-.2818	-.1287	-.2873	-.1022	.0340	.1358	.2241	-.0318	-.0901
225.000			.7842	.7744	.3882	.0000	-.1072	-.1925	-.2286	-.1178	.0887	.0448	.1142	.0004	-.0748
240.000		.5883	.8772	.7488	.4836	.1281	.0000	-.1758	-.2418	.0031	.0881	.2821	-.0818	-.0198	-.0851
270.000		.8321	.8535	.8818	.5043	.1017	-.1383	-.1887	-.2339	.0956	.4735	.1871	-.2344	-.1714	-.1287
300.000		.8888	.8583	.7431	.5180	.1077	-.1381	-.1818	-.2332	-.1782	.0483	.3577	-.1654	-.1414	-.0413
330.000		.8885	.7038	.8037	.8557	.0000	-.1110	-.1583	-.2143	-.2021	.0502	.0000		-.0505	-.1093

X/LT	.8888	.6348	.7423	.8508	.8884	.8838
PHI						
.000	.0000	-.0714	-.0417	.0308	.0733	-.1884
30.000	-.0144	.0000	-.0388	-.0284	.0858	-.1937
60.000	-.0308	-.0321	-.0188	.0077	.2324	-.1800
90.000	-.2188	-.0455	-.0071	.0121	.8895	-.1858
120.000	.0837	.0233	.0284	.1288	.5817	-.1704
135.000	.0384	-.0115	.0000	.3606	.5983	
147.000	.0422	.0214	.0482	.2989	.8106	-.2257
162.000	-.1587	.0125	-.0383	.3347	.6074	
180.000	-.1154	-.0838	-.0132	.2887	.5295	-.1988
198.000	-.1385	-.0487	.0288	.1878	.4303	
213.000	-.1882	-.1547	-.0072	.1879	.0830	.0000
225.000	-.0873	-.0814	.0108	.1938	.2458	
240.000	-.0888	.0000	.0888	.1884	.2282	-.1848
270.000	-.1418	-.0888	.0848	.1201	.8052	-.1824
300.000	-.8481	-.8448	.0478	.0738	.1884	-.1881
330.000	.0000	-.0833	-.0181	.0837	.1207	-.1882

ARC97-B1B IABI LVAP(ALUM. SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(4) = -.887 BETAT (2) = -3.988

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2584	.2821	.3382	.3904	.4446	.4987
PHI															
.000	1.0561	.5876	.7886	.8871	.8415	.2119	-.0896	-.1221	-.1847	-.1733	.1010	-.0258	.0803	-.0067	-.0841
30.000		.6713	.8164	.9408	.8848	.2565	.0000	-.0923	-.1572	-.1466	.1377	.0569	-.0714	-.1434	-.0768
60.000		.6981	.8483	.9830	.7346	.2877	-.0178	-.0695	-.1376	-.1256	.1772	.2474	-.3196	-.1938	-.0718
90.000		.6958	.8540	1.0032	.7512	.2989	-.0017	-.0660	-.1326	.2116	.6228	.2137	-.2613	-.2511	-.2180
120.000		.6981	.8515	.9839	.0000	.2813	-.0080	-.0711	-.1421	-.1263	.1747	.1889	-.2383	-.0328	-.0237
135.000			.8489	.9720	.7199	.0000	-.0235	.0000	-.1414	-.1337	.1519	.2166	-.0370	.0892	-.0170
147.000		.6798	.8260	.9572	.7081	.0000	-.0245	-.0784	-.1519	-.1504	.1462	.1233	.2844	.1873	-.0234
162.000			.6148	.9312	.0000	.0000	-.0397	-.1105	-.1667	-.1540	.0000	.1774	.3740	-.1040	-.1854
180.000	1.5861	.8588	.8003	.8978	.0000	.1854	-.0492	-.1045	-.1907	-.1668	.1168	.1440	.4446	.2552	-.0661
198.000			.7945	.8682	.0000	.2571	-.0746	-.1304	-.1828	-.1707	.1003	.1481	.2716	-.1949	.0111
213.000		.8484	.8521	.7399	.0000	.0000	-.2150	-.0972	-.2084	-.1816	.0480	.1453	.2320	.0222	-.0170
225.000			.7933	.8433	.4584	.0000	-.0771	-.1686	-.2080	-.1723	.1054	.0866	.1080	.0121	-.0661
240.000		.5921	.6913	.8216	.5397	.1644	.0000	-.1572	-.2241	-.1562	.0825	.3010	-.1278	-.0262	-.0313
270.000		.5816	.6727	.7658	.5595	.1348	-.1154	-.1715	-.2186	.0617	.4536	.2016	-.2597	-.2126	-.1132
300.000		.5695	.6424	.6121	.5739	.1491	-.1161	-.1620	-.2161	-.1987	.0735	.3093	-.1853	-.1528	-.0471
330.000		.5994	.7662	.8506	.5961	.0000	-.0920	-.1437	-.2035	-.1925	.0700	.0000		-.0474	-.1009

X/LT	.9528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0608	-.0183	-.0098	.0675	-.1658
30.000	-.0327	.0000	-.0186	-.0120	.0569	-.1869
60.000	-.0327	-.0175	-.0385	-.0079	.1903	-.1697
90.000	-.2302	-.0091	-.0262	-.0189	.7346	-.1601
120.000	.0444	.0128	.0081	.0912	.4882	-.1770
135.000	.0277	-.0474	.0000	.3257	.4748	
147.000	.0135	.0074	.0074	.2677	.4694	-.2189
162.000	-.0835	.0553	-.0759	.2860	.5155	
180.000	-.1689	.0103	-.0338	.2583	.4936	-.1911
198.000	-.1635	-.0849	-.0382	.1659	.3950	
213.000	-.1430	-.0925	-.0281	.1306	.1305	.0000
225.000	-.0482	-.0601	-.0265	.1493	.2202	
240.000	-.0551	.0000	-.0433	.1582	.2053	-.1655
270.000	-.1322	-.0674	-.0224	.0855	.5289	-.1687
300.000	-.0374	-.0420	-.0151	.0389	.1944	-.1674
330.000	.0000	-.0516	-.0161	.0063	.0981	-.1700

ARC87-019 1AB1 LVAP(ALLML SEALED) EXTERNAL TANK (RETT35)

ALPHAT(4) = -.270 BETAT (3) = .300

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0184	.0460	.0844	.1284	.1844	.2188	.2323	.2584	.2821	.3382	.3804	.4445	.4987
PHI															
.000	1.5877	.7874	.8010	.8130	.8480	.2124	-.0848	-.1174	-.1810	-.1696	.1123	-.0127	.1158	.0120	-.0800
30.000		.7884	.7910	.8034	.6420	.2002	.0000	-.1212	-.1750	-.1842	.1142	.0848	-.1316	-.0471	-.0797
60.000		.7488	.7808	.8008	.6337	.2031	-.0851	-.1171	-.1832	-.1851	.1145	.2815	-.3138	-.1970	-.0718
90.000		.7482	.7780	.8080	.6327	.2003	-.0845	-.1208	-.1857	.1495	.8472	.2238	-.2851	-.2437	-.2139
120.000		.7488	.7783	.8953	.0000	.1939	-.0842	-.1183	-.1794	-.1884	.1180	.2375	-.1918	-.0284	-.0788
135.000			.7778	.8046	.6308	.0000	-.0708	.0000	-.1810	-.1890	.1240	.1423	.1210	.0466	-.0949
147.000		.7458	.7819	.8098	.6407	.0000	-.0832	-.1266	-.1788	-.1800	.1297	.1678	.2057	.1060	-.1253
162.000			.7835	.8149	.0000	.0000	-.0756	-.1178	-.1813	-.1671	.0000	.1691	.2634	-.1097	-.1136
180.000	1.5577	.7348	.7884	.8207	.0000	.2182	-.0423	-.1263	-.1728	-.1758	.1322	.1544	.3783	.2290	-.0851
198.000			.7973	.8233	.0000	.2426	-.0322	-.1355	-.1573	-.1513	.1104	.1280	.3348	-.1020	-.0724
213.000		.7328	.8153	.8879	.0000	.0000	-.1858	-.0837	-.1835	-.1902	.0479	.1971	.2750	.0787	.0598
225.000			.8455	.9254	.5855	.0000	-.0298	-.1323	-.1858	-.1404	.0875	.1216	.0015	.0218	-.0402
240.000		.7488	.8037	.9311	.6337	.2407	.0000	-.1238	-.1770	-.1561	.1275	.2585	-.1954	-.0171	-.0563
270.000		.7542	.7988	.9349	.6827	.2143	-.0810	-.1219	-.1719	.1216	.5045	.2563	-.2707	-.2328	-.1930
300.000		.7574	.8044	.9263	.6817	.2315	-.0854	-.1127	-.1696	-.1600	.1253	.2821	-.2211	-.1768	-.0857
330.000		.7517	.7988	.9208	.6541	.0000	-.0807	-.1146	-.1806	-.1671	.1120	.0000		-.0724	-.0785

X/LT	.9529	.8340	.7423	.6508	.9284	.9838
PHI						
.000	.0000	-.0842	-.0853	.0182	.0348	-.1778
30.000	-.0805	.0000	-.0173	.0196	.1197	-.1931
60.000	-.0308	-.0288	-.0243	.0384	.1909	-.1743
90.000	-.2352	-.0816	-.0708	.0978	.5978	-.1738
120.000	.0000	-.0414	-.0674	.1748	.3620	-.1882
135.000	.0185	-.0673	.0000	.3128	.3283	
147.000	.0134	-.0214	-.0150	.2832	.3095	-.2333
162.000	-.1338	.0455	-.0708	.2328	.2898	
180.000	-.1985	.0381	-.0835	.2112	.2443	-.2215
198.000	-.1788	-.1882	.0028	.1888	.1838	
213.000	-.0422	-.0282	-.0885	.2005	.1758	.0000
225.000	-.0153	-.0249	-.0455	.2885	.2332	
240.000	-.0883	.0000	-.0537	.1588	.2742	-.1888
270.000	-.2163	-.0427	-.0427	.0816	.5817	-.1838
300.000	-.0229	-.0188	-.0113	.0198	.1558	-.1787
330.000	.0000	-.0488	-.0041	.0175	.1088	-.1838

ARC87-018 IAB1 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT35)

ALPHAT(4) = -.281 BETAT (4) = 4.707

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0194	.0400	.0894	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3804	.4445	.4987
PHI															
.000	1.5387	.9825	.8250	.8050	.6434	.2178	-.0832	-.1184	-.1803	-.1677	.1084	-.0085	.0080	-.0118	-.0939
30.000		.8054	.7740	.8224	.9825	.1678	.0000	-.1478	-.2047	-.1880	.0783	.0884	-.0269	-.0418	-.1081
60.000		.9777	.8498	.7835	.5469	.1312	-.1179	-.1878	-.2183	-.1207	.0855	.3484	-.2913	-.1556	-.0471
90.000		.6078	.6895	.7381	.5275	.1216	-.1269	-.1773	-.2236	.1047	.5210	.2850	-.2694	-.2124	-.2030
120.000		.5805	.6722	.7732	.0000	.1216	-.1199	-.1658	-.2202	-.1053	.0712	.2384	-.1304	-.0426	-.0847
135.000			.6840	.8044	.5425	.0000	-.1098	.0000	-.2183	-.1941	.0958	.0811	.1611	.0463	-.1848
147.000		.6566	.7021	.8294	.5571	.0000	-.1120	-.1584	-.2040	-.1947	.1057	.1602	.2328	.1188	-.2432
162.000			.7353	.8516	.0000	.0000	-.0835	-.1370	-.2047	-.1877	.0000	.1477	.2495	-.2302	-.1676
180.000	1.5387	.8519	.7655	.8834	.0000	.2286	-.0762	-.1185	-.1878	-.1667	.1101	.1621	.4152	.2386	-.1100
198.000			.7951	.9291	.0000	.2213	-.0068	-.1301	-.1405	-.1278	.1278	.1841	.3599	-.0794	.0197
213.000		.8802	.8118	.9178	.0000	.0000	-.1909	-.0318	-.1674	-.1815	.0744	.1872	.2679	.1189	.0899
225.000			.9207	.9884	.6654	.0000	.0182	-.0795	-.1059	-.0957	.1673	.1869	-.1105	.0456	.0642
240.000		.7218	.8940	.9936	.7323	.3165	.0000	-.0738	-.1143	-.1105	.1964	.2280	-.2255	-.0186	.0260
270.000		.7346	.9262	1.0200	.7725	.3124	.0163	-.0530	-.1146	.1880	.5990	.3335	-.3255	-.2084	-.1530
300.000		.7225	.9075	.9964	.7489	.3165	.0030	-.0533	-.1233	-.1121	.1920	.2650	-.2305	-.1758	-.0556
330.000		.7053	.8529	.9410	.6987	.0000	-.0274	-.0827	-.1516	-.1356	.1534	.0000		-.1498	-.0672

X/LT	.5628	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0782	-.0261	.0026	.0787	-.1612
30.000	-.0871	.0000	-.0116	.0440	.1117	-.1676
60.000	-.0465	-.0236	-.0078	.1006	.2424	-.1679
90.000	-.1382	-.0686	-.0587	.1072	.5793	-.1452
120.000	-.0358	-.0398	-.0477	.2216	.2160	-.1704
135.000	-.0030	-.0743	.0000	.2339	.2859	
147.000	-.0406	-.0290	-.0258	.2465	.2408	-.1704
162.000	-.1798	-.0125	-.1632	.2291	.2344	
180.000	-.1884	-.0546	-.1701	.2086	.3428	-.2123
198.000	-.3184	-.1804	-.0287	.1614	.4563	
213.000	.0278	-.0157	- 0003	.1818	.3349	.0000
225.000	.0507	.0176	-.0512	.2029	.3711	
240.000	.0403	.0000	-.0155	.1845	.3933	-.1899
270.000	-.2305	-.0119	-.0303	.0684	.7153	-.1870
300.000	-.0270	-.0220	-.0534	.0148	.2192	-.1870
330.000	.0000	-.0407	-.0427	-.0121	.0719	-.1953

ARC87-618 1AB1 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT35)

ALPHAT(4) = -.240 BETAT (5) = 8.850

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1284	.1844	.2108	.2323	.2584	.2821	.3382	.3804	.4446	.4987
PHI															
.000	1.0438	.5316	.7888	.8888	.8288	.1884	-.0821	-.1163	-.1818	-.1734	.0882	-.0028	.0881	-.0417	-.1038
30.000		.5574	.7535	.7814	.5578	.1408	.0000	-.1619	-.2180	-.2007	.0517	.0630	-.0348	-.0548	-.1160
60.000		.5316	.6070	.7308	.4880	.0862	-.1325	-.1858	-.2385	-.1038	.0304	.3758	-.2774	-.1373	-.0430
90.000		.5304	.6381	.6758	.4778	.0842	-.1445	-.1951	-.2428	.0812	.5341	.2434	-.2728	-.1808	-.1511
120.000		.5450	.6327	.7185	.0000	.0885	-.1358	-.1875	-.2461	-.0808	.0387	.2342	-.0808	-.0833	-.1049
135.000			.6451	.7554	.4971	.0000	-.1298	.0000	-.2283	-.2197	.0753	.0560	.1333	.0288	-.1795
147.000		.5830	.6772	.7833	.5133	.0000	-.1228	-.1616	-.2199	-.2078	.0862	.1441	.2056	.0875	-.2459
162.000			.7075	.8154	.0000	.0000	-.0869	-.1494	-.2050	-.2001	.0000	.1451	.2308	-.2501	-.2181
180.000	1.5458	.6032	.7451	.8588	.0000	.2181	-.0824	-.1077	-.1933	-.1741	.0906	.1562	.4191	.2154	-.1672
198.000			.8187	.9263	.0000	.2021	-.0039	-.1156	-.1482	-.1218	.1299	.1648	.3631	-.0741	.0361
213.000		.6766	.7660	.9070	.0000	.0000	-.1954	-.0249	-.1845	-.1850	.0871	.1931	.2147	.1256	.1158
225.000			.9070	.9847	.8990	.0000	.0255	-.0524	-.0901	-.0782	.1880	.1849	-.1348	.0228	.1069
240.000		.7707	.9481	1.0188	.7666	.3569	.0000	-.0458	-.0614	-.0905	.2407	.2256	-.2367	-.0281	.0955
270.000		.7761	.9842	1.0535	.8255	.3665	.0562	-.0179	-.0840	.2193	.8415	.3857	-.3294	-.1498	-.1096
300.000		.7472	.9202	1.0293	.7904	.3566	.0372	-.0217	-.0953	-.0860	.2357	.2638	-.2291	-.1725	-.0483
330.000		.6950	.8726	.9535	.7191	.0000	-.0071	-.0679	-.1348	-.1220	.1631	.0000		-.1773	-.0740

X/LT	.9528	.6340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0003	-.0167	.0401	.0735	-.1006
30.000	-.0051	.0000	.0422	.0487	.1058	-.1790
60.000	-.0512	-.0023	.0492	.0873	.2108	-.1889
90.000	-.1000	-.0452	.0010	.1284	.8178	-.1637
120.000	-.0013	-.0351	-.0307	.2286	.2975	-.1822
135.000	-.0400	-.0007	.0000	.2884	.2962	
147.000	-.0072	-.0071	-.0047	.2863	.2263	-.1745
162.000	-.1216	-.0020	-.2048	.3837	.1988	
180.000	-.2195	-.0614	-.2271	.8894	.3388	-.2188
198.000	-.3388	-.2438	-.0588	.1788	.8381	
213.000	.0040	-.0000	.0073	.1801	.3888	.0000
225.000	.0004	.0000	-.0380	.2143	.4282	
240.000	.0708	.0000	.0237	.1786	.4868	-.1833
270.000	-.2000	-.0313	-.0944	.0381	.0000	-.1986
300.000	-.0281	-.0243	-.0418	.0191	.2448	-.1948
330.000	.0000	-.0484	-.0585	-.0018	.0822	-.2023

ARC87-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(6) = 1.924 BETAT (1) = -6.138

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3904	.4445	.4887
PHI															
.000	1.5571	.6027	.7261	.9293	.6814	.2539	-.0364	-.0917	-.1593	-.1536	.1240	-.0033	.0855	-.0093	-.0686
30.000		.7681	.6907	1.0080	.7487	.3247	.0000	-.0459	-.1179	-.1108	.1905	.1037	-.0613	-.1327	-.0587
60.000		.8173	.6910	1.0517	.8077	.3629	.0347	-.0251	-.0978	-.0859	.2416	.3033	-.2737	-.1465	-.0392
90.000		.8059	.6784	1.0488	.8017	.3569	.0361	-.0336	-.1013	.2472	.6841	.2081	-.2453	-.1672	-.0502
120.000		.7630	.6548	.9857	.0000	.2940	.0085	-.0562	-.1302	-.1194	.2084	.1245	-.3018	-.1091	-.0658
135.000			.8348	.9532	.7082	.0000	-.0182	.0000	-.1582	-.1392	.1356	.1362	-.1484	.0722	-.0022
147.000		.7198	.6450	.9185	.6792	.0000	-.0493	-.1068	-.1837	-.1584	.1149	.0706	.1365	.2304	.0147
162.000			.6498	.8777	.0000	.0000	-.0803	-.1217	-.1963	-.1798	.0000	.1444	.3303	.0184	-.1532
180.000	1.5571	.6681	.6775	.8318	.0000	.1280	-.1125	-.1381	-.2123	-.1995	.0774	.1094	.4460	.2148	-.0793
198.000			.6922	.7840	.0000	.1992	-.1329	-.1640	-.2242	-.1485	.0417	.1801	.2587	-.2375	.0081
213.000		.8140	.7288	.8336	.0000	.0000	-.2494	-.1405	-.2402	-.0884	.0482	.1817	.2103	-.0208	-.0838
225.000			.6998	.7386	.3974	.0000	-.1200	-.2028	-.2347	-.1319	.0847	.0386	.0887	.0134	-.1288
240.000		.5534	.6686	.7007	.4799	.1096	.0000	-.1888	-.2438	-.0252	.0559	.2063	-.1308	-.0802	-.0539
270.000		.5381	.6520	.6934	.5115	.0871	-.1404	-.1913	-.2433	.0418	.3892	.1956	-.2202	-.1792	-.0254
300.000		.6062	.6641	.7730	.5387	.1183	-.1275	-.1725	-.2315	-.1386	.0635	.5321	-.0962	-.1006	-.0185
330.000		.6024	.6912	.8431	.5955	.0000	-.0905	-.1418	-.2015	-.1848	.0721	.0000		-.0223	-.0933

X/LT	.9528	.6340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0535	-.0499	.0124	.0955	-.1786
30.000	.0041	.0000	-.0276	-.0104	.0693	-.1792
60.000	.0148	.0010	.0010	.0429	.1519	-.1605
90.000	-.0879	-.1275	-.0628	.1427	.4496	-.1539
120.000	.0458	.0402	.0399	.1927	.6395	-.1501
135.000	.0154	-.0105	.0000	.4028	.6364	
147.000	-.0028	.0025	.0787	.3635	.6688	-.2387
162.000	-.1885	-.0936	-.0268	.3991	.6238	
180.000	-.1424	-.0640	.0131	.3507	.5348	-.1884
198.000	-.1409	-.0866	.0595	.2523	.4445	
213.000	-.2041	-.1222	.0410	.2233	.1173	.0000
225.000	-.0710	-.0703	.0614	.2470	.2691	
240.000	-.0541	.0000	.0808	.2285	.2313	-.1786
270.000	-.0598	-.0798	.0745	.1869	.4886	-.1849
300.000	-.0482	-.0803	.0181	.0872	.2313	-.1928
330.000	.0000	-.0558	-.0277	.0728	.1062	-.1811

ARC87-019 IAB1 LVAP(ALL HL SEALED) EXTERNAL TANK (RETT35)

ALPHAT(8) = 1.813 BETAT (2) = -1.807

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2684	.2821	.3362	.3804	.4445	.4887
PHI															
.000	1.5584	.8181	.8722	.9582	.8992	.2547	-.0341	-.0883	-.1543	-.1434	.1494	-.0371	.1233	.0330	-.0515
30.000		.7039	.8571	.9589	.7127	.2727	.0000	-.0815	-.1455	-.1348	.1583	.0949	-.0921	-.0483	-.0496
60.000		.7203	.8420	.9661	.7108	.2699	-.0288	-.0878	-.1531	-.1399	.1853	.3345	-.2741	-.1487	-.0515
90.000		.7042	.8286	.9482	.6891	.2459	-.0392	-.0997	-.1821	.1735	.5716	.2020	-.2347	-.2265	-.0696
120.000		.6989	.8074	.9059	.0000	.2081	-.0574	-.1179	-.1815	-.1593	.1125	.1333	-.2609	-.1212	-.1009
135.000			.7984	.8874	.6349	.0000	-.0727	.0000	-.1818	-.1737	.1009	.1756	-.0405	.0953	-.0859
147.000		.6898	.7939	.8859	.6333	.0000	-.0724	-.1260	-.1925	-.1775	.1058	.1072	.2555	.1357	-.0812
162.000			.7845	.8748	.0000	.0000	-.0903	-.1490	-.1921	-.1884	.0000	.1214	.3130	-.0480	-.1973
180.000	1.5584	.8884	.7768	.8805	.0000	.1611	-.0746	-.1430	-.2047	-.1912	.1058	.1409	.3018	.1984	-.0871
198.000			.7838	.8628	.0000	.2030	-.0749	-.1580	-.1888	-.1748	.0773	.1289	.2548	-.1048	.0427
213.000		.8805	.7930	.8058	.0000	.0000	-.2150	-.1011	-.2109	-.2098	.0178	.1807	.2118	.0408	.0295
225.000			.7775	.8334	.5084	.0000	-.0899	-.1824	-.1937	-.1708	.0858	.1009	.0057	.0424	-.0837
240.000		.8712	.7390	.8348	.5891	.1753	.0000	-.1515	-.2081	-.1899	.0851	.2180	-.2193	-.0274	-.1103
270.000		.8484	.7243	.8698	.6125	.1810	-.0825	-.1495	-.2077	.0720	.4493	.2418	-.2780	-.2182	-.0336
300.000		.8882	.7818	.9948	.8343	.2043	-.0727	-.1277	-.1889	-.1714	.1222	.4453	-.1445	-.1503	-.0358
330.000		.8253	.8843	.9241	.8683	.0000	-.0524	-.1024	-.1883	-.1558	.1240	.0000		-.0181	-.0810

X/LT	.9828	.6340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0383	-.0091	.0084	.0548	-.1481
30.000	-.0328	.0000	-.0157	.0196	.0857	-.1775
60.000	.0040	-.0088	-.0189	.0559	.1431	-.1588
90.000	-.0544	-.0449	-.0317	.1384	.5481	-.1535
120.000	.0031	.0109	-.0123	.2062	.4261	-.1930
135.000	-.0129	-.0405	.0000	.2710	.4547	
147.000	-.0241	-.0229	.0216	.2735	.4952	-.2609
162.000	-.1182	-.0102	-.0242	.2763	.4462	
180.000	-.2142	-.0818	-.0586	.2629	.3825	-.2008
198.000	-.1445	-.1092	.0258	.2009	.2676	
213.000	-.1432	-.0524	.0180	.1928	.1710	.0000
225.000	-.0801	-.0411	-.0014	.2298	.2075	
240.000	-.0341	.0000	-.0111	.1820	.2381	-.1887
270.000	-.0260	-.0418	-.0101	.0981	.4191	-.1560
300.000	-.0057	-.0317	-.0038	.0507	.1431	-.1585
330.000	.0000	-.0342	-.0051	.0080	.0792	-.1712

ARC87-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT35)

ALPHAT(6) = 1.948 BETAT (3) = 2.658

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5430	.5898	.8864	.9510	.8961	.2827	-.0265	-.0957	-.1521	-.1384	.1535	-.0290	.1381	.0310	-.0500
30.000		.6048	.8304	.9002	.6574	.2267	.0000	-.1086	-.1893	-.1571	.1253	.1000	-.0029	-.0143	-.0700
60.000		.6572	.7600	.8579	.5931	.1877	-.0756	-.1312	-.1912	-.1774	.1207	.4425	-.2432	-.1210	-.0432
90.000		.6675	.7232	.8191	.5661	.1539	-.0976	-.1515	-.2068	.0985	.4831	.2096	-.2441	-.2033	-.0472
120.000		.6606	.7254	.7892	.0000	.1448	-.1111	-.1584	-.2084	-.1864	.0663	.1731	-.2013	-.0868	-.1398
135.000			.7289	.7842	.5519	.0000	-.0980	.0000	-.2146	-.1943	.0836	.1038	.1444	.0774	-.1691
147.000		.6650	.7207	.8023	.5592	.0000	-.0986	-.1603	-.2096	-.1943	.0937	.1532	.2370	.1405	-.2242
162.000			.7203	.8280	.0000	.0000	-.1070	-.1418	-.2109	-.1892	.0000	.1438	.2277	-.1873	-.1182
180.000	1.5430	.6631	.7257	.8512	.0000	.1801	-.0886	-.1500	-.1990	-.1832	.0887	.1161	.3894	.2175	-.1029
198.000			.7409	.8805	.0000	.1905	-.0434	-.1615	-.1681	-.1596	.0915	.1586	.3333	-.0940	-.0591
213.000		.7043	.7600	.8648	.0000	.0000	-.2089	-.0756	-.1981	-.2045	.0319	.1545	.2773	.1052	.0681
225.000			.8287	.9031	.6076	.0000	-.0315	-.1206	-.1523	-.1371	.1069	.1208	-.1132	.0897	-.0213
240.000		.7333	.8369	.9299	.6662	.2167	.0000	-.1140	-.1555	-.1542	.1244	.1621	-.2715	-.0469	-.0894
270.000		.7487	.8496	.9733	.7146	.2715	-.0156	-.0834	-.1565	.1525	.5450	.2937	-.2730	-.2145	-.0441
300.000		.7619	.8627	.9881	.7297	.3002	-.0109	-.0715	-.1409	-.1218	.1844	.3610	-.1669	-.1563	-.0425
330.000		.7390	.8703	.9809	.7272	.0000	-.0099	-.0687	-.1415	-.1284	.1694	.0000		-.0688	-.0570

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0398	-.0225	.0113	.0768	-.1571
30.000	-.0714	.0000	-.0163	.0228	.0714	-.1589
60.000	-.0138	-.0387	-.0147	.0572	.1509	-.1574
90.000	-.0289	-.0523	-.0288	.1240	.4039	-.1485
120.000	-.0149	-.0448	-.0254	.2164	.2612	-.1514
135.000	-.0108	-.0943	.0000	.2506	.2842	
147.000	-.0589	-.0514	-.0357	.2569	.2515	-.1580
162.000	-.1772	-.0175	-.0853	.2556	.1912	
180.000	-.1388	-.0451	-.0353	.2519	.2791	-.1950
198.000	-.2521	-.1727	.0341	.2173	.3605	
213.000	-.0358	-.0160	.0241	.2373	.2999	.0000
225.000	-.0189	.0010	-.0137	.2264	.3382	
240.000	-.0018	.0000	-.0134	.2091	.3241	-.1747
270.000	-.0586	-.0464	-.0156	.0791	.5343	-.1747
300.000	.0032	-.0160	-.0084	.0428	.1425	-.1697
330.000	.0000	-.0225	-.0209	.0110	.0833	-.1861

ARC97-019 IAB1 LVAP(ALLML SEALED) EXTERNAL TANK (RETT36)

ALPHAT(5) = 1.883 BETAT (4) = 8.833

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1294	.1844	.2108	.2323	.2884	2821	.3382	.3804	.4445	.4987
PHI															
.000	1.5435	.5038	.8252	.9212	.8846	.2518	-.0317	-.0885	-.1490	-.1440	.1402	.0028	.0834	-.0222	-.0727
30.000		.5139	.7897	.8157	.5983	.1781	.0000	-.1397	-.1973	-.1883	.0719	.0874	.0082	-.0281	-.0927
60.000		.5812	.8439	.7421	.5090	.1185	-.1221	-.1784	-.2321	-.2484	.0532	.4552	-.2024	-.0927	-.0278
90.000		.5186	.5982	.6782	.4809	.0835	-.1510	-.2013	-.2484	.0401	.4417	.2990	-.2505	-.1771	-.0209
120.000		.5183	.6184	.6621	.0000	.0822	-.1441	-.1919	-.2490	-.0457	.0332	.1848	-.0624	-.1249	-.1231
135.000			.8133	.7052	.4743	.0000	-.1435	.0000	-.2446	-.2135	.0614	.0419	.1228	.0229	-.2297
147.000		.5612	.6275	.7319	.4837	.0000	-.1472	-.1837	-.2330	-.2180	.0681	.1285	.2047	.0761	-.2423
162.000			.8577	.7841	.0000	.0000	-.1138	-.1729	-.2261	-.2154	.0000	.1279	.2083	-.2153	-.2034
180.000	1.5435	.5825	.7004	.8113	.0000	.1739	-.1130	-.1390	-.2170	-.1991	.0573	.1291	.3925	.1847	-.1535
198.000			.7163	.8737	.0000	.1585	-.0454	-.1431	-.1788	-.1500	.0725	.1336	.2900	-.0726	.0245
213.000		.6568	.7032	.8323	.0000	.0000	-.2409	-.0695	-.2073	-.2103	.0500	.1582	.1368	.1138	.1339
225.000			.8291	.9388	.6754	.0000	-.0304	-.0869	-.1251	-.1089	.1421	.1165	-.1797	.0405	.0844
240.000		.7385	.8562	.9922	.7417	.2759	.0000	-.0513	-.1298	-.1044	.2180	.1519	-.2824	-.0510	-.0028
270.000		.7774	.8938	1.0563	.8172	.3671	.0655	-.0084	-.0932	.2274	.6390	.3567	-.2909	-.1200	-.0084
300.000		.7855	.8909	1.0623	.8254	.3873	.0602	-.0087	-.0776	-.0855	.2635	.3462	-.1690	-.1557	-.0338
330.000		.7410	.8791	1.0111	.7709	.0000	.0272	-.0369	-.1070	-.0909	.2095	.0000		-.1319	-.0610

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0613	-.0437	.0524	.0940	-.1778
30.000	-.0823	.0000	.0384	.0571	.0986	-.1852
60.000	-.0500	-.0428	.0447	.0662	.2000	-.1915
90.000	-.0587	-.0292	.0380	.1689	.4693	-.1855
120.000	-.0531	-.0390	.0293	.2435	.2716	-.1768
135.000	-.0378	-.0874	.0000	.3072	.3025	
147.000	-.0760	-.0598	.0431	.3165	.2382	-.1735
162.000	-.1412	-.0758	-.0018	.2954	.2095	
180.000	-.2427	-.1434	-.1575	.2919	.3384	-.2090
198.000	-.3574	-.2881	-.0086	.2331	.5850	
213.000	.0333	-.0148	.0241	.2619	.4816	.0000
225.000	.0587	.0478	-.0160	.2716	.4983	
240.000	.0506	.0000	.0458	.2688	.5254	-.1801
270.000	-.0152	-.0553	-.0624	.0882	.4148	-.1789
300.000	.0161	.0086	-.0031	.0515	.1574	-.1779
330.000	.0000	-.0157	-.0388	.0094	.0982	-.1915

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RCTT35)

ALPHAT(8) = 4.186 BETAT (1) = -8.133

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.5525	.5776	.7671	.6751	.7326	.2948	-.0039	-.0599	-.1293	-.1250	.1688	.0025	.0789	.0141	-.0371
30.000		.8187	.7192	1.0503	.7992	.3703	.0000	-.0147	-.0874	-.0792	.2343	.1485	-.0400	-.0894	-.0522
60.000		.8491	.6888	1.0747	.8354	.3999	.0596	-.0046	-.0821	-.0677	.2699	.3683	-.2173	-.1517	-.0356
90.000		.7987	.6429	1.0350	.7910	.3497	.0320	-.0362	-.1063	.2435	.6375	.2168	-.2712	-.1340	-.0110
120.000		.7252	.5972	.9406	.0000	.2637	-.0207	-.0779	-.1468	-.1260	.1773	.0504	-.3229	-.1324	-.0844
135.000			.5741	.8925	.6539	.0000	-.0454	.0000	-.1796	-.1686	.0909	.0596	-.1957	.0081	.0054
147.000		.6752	.5700	.8545	.6241	.0000	-.0810	-.1391	-.1944	-.1776	.0699	.0339	.0475	.2518	.0117
162.000			.5936	.8154	.0000	.0000	-.0990	-.1507	-.2161	-.2109	.0000	.0979	.2890	.0932	-.1602
180.000	1.5525	.6483	.6346	.7732	.0000	.0929	-.1419	-.1651	-.2306	-.2192	.0626	.0773	.3909	.1655	-.0604
198.000			.6557	.7194	.0000	.1534	-.1514	-.1919	-.2350	-.0584	.0241	.0973	.2075	-.2479	.0441
213.000		.5909	.6804	.5834	.0000	.0000	-.2571	-.1595	-.2520	-.0443	.0381	.0976	.1845	-.0160	-.0280
225.000			.6727	.6723	.3742	.0000	-.1344	-.2181	-.2397	-.0860	.0681	.0310	.0538	.0158	-.1237
240.000		.5456	.6548	.6536	.4601	.0860	.0000	-.1954	-.2487	-.0344	.0388	.1705	-.1941	-.1347	-.0768
270.000		.5751	.6567	.7161	.5033	.0866	-.1470	-.1928	-.2506	.0277	.3735	.1696	-.2615	-.1684	-.0025
300.000		.5915	.6122	.7776	.5420	.1341	-.1186	-.1655	-.2243	-.0584	.0741	.6334	-.0264	-.0907	-.0453
330.000		.5583	.6858	.8722	.6271	.0000	-.0703	-.1242	-.1838	-.1711	.0931	.0000		.0007	-.0735

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0367	-.0388	-.0107	.1055	-.1644
30.000	.0199	.0000	-.0063	.0180	.0533	-.1530
60.000	.0542	.0379	.0161	.0841	.1198	-.1469
90.000	.0539	.0367	.0092	.1127	.1923	-.1517
120.000	.0634	.0379	.0411	.2874	.5649	-.1714
135.000	.0008	-.0075	.0000	.4204	.6339	
147.000	-.0103	.0048	.0897	.4185	.6887	-.2035
162.000	-.1792	-.0729	-.0035	.4383	.6238	
180.000	-.1499	-.0548	.0290	.3850	.5111	-.1838
198.000	-.1550	-.0553	.0879	.2837	.4378	
213.000	-.2135	-.0957	.0762	.2445	.0995	.0000
225.000	-.0754	-.0844	.0939	.2810	.2632	
240.000	-.0357	.0000	.0984	.2455	.2125	-.1798
270.000	-.0269	-.0853	.0728	.2034	.4272	-.1832
300.000	-.0257	-.0587	-.0066	.1008	.2854	-.1870
330.000	.0000	-.0498	-.0419	.0809	.1128	-.1635

ARC97-019 IASI LVAP(ALUM. SEALED) EXTERNAL TANK (RETT35)

ALPHAT(8) = 4.175 BETAT (2) = -3.984

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3804	.4445	.4987
PHI															
.000	1.5556	.5588	.8254	.9880	.7467	.3051	-.0022	-.0618	-.1301	-.1209	.1788	-.0212	.1174	.0372	-.0268
30.000		.7388	.8408	1.0328	.7829	.3471	.0000	-.0371	-.1062	-.0823	.2183	.1337	-.0486	-.0475	-.0378
60.000		.7888	.8178	1.0328	.7883	.3388	.0233	-.0380	-.1134	-.0880	.2300	.3824	-.2203	-.1492	-.0451
90.000		.7412	.7819	.9874	.7413	.2948	-.0086	-.0718	-.1371	.2040	.5814	.1822	-.2880	-.1492	-.0418
120.000		.6788	.7377	.9068	.0000	.2188	-.0486	-.1084	-.1718	-.1820	.1285	.0491	-.2902	-.1428	-.1088
135.000			.7301	.8728	.8303	.0000	-.0732	.0000	-.1852	-.1774	.0744	.1098	-.1480	.0473	-.0785
147.000		.6370	.7198	.8481	.8103	.0000	-.0950	-.1434	-.1980	-.1845	.0703	.0821	.1053	.2117	-.0429
162.000			.7181	.8105	.0000	.0000	-.1013	-.1617	-.2223	-.1980	.0000	.1012	.2537	.0878	-.1788
180.000	1.9556	.6100	.7052	.7771	.0000	.1015	-.1181	-.1804	-.2311	-.2128	.0782	.1072	.3087	.1731	-.0599
198.000			.6988	.7556	.0000	.1826	-.1203	-.1857	-.2157	-.1909	.0338	.1018	.2203	-.1552	.0873
213.000		.5484	.7547	.8848	.0000	.0000	-.2421	-.1390	-.2397	-.2183	.0058	.1152	.1917	.0348	.0161
225.000			.7033	.7088	.4440	.0000	-.1080	-.1971	-.2234	-.1871	.0445	.0570	.0213	.0571	-.1012
240.000		.5449	6391	.7117	.5057	.1155	.0000	-.1868	-.2382	-.1810	.0339	.1680	-.2405	-.1249	-.0684
270.000		.5843	.6648	.7826	.5534	.1279	-.1181	-.1724	-.2337	.0481	.3887	.1952	-.2912	-.1840	.0072
300.000		.5992	.7306	.8411	.5983	.1753	-.0877	-.1402	-.2070	-.1861	.1031	.6351	-.0592	-.1233	-.0407
330.000		.5640	.7999	.9155	.6703	.0000	-.0510	-.1027	-.1662	-.1528	.1198	.0000		.0009	-.0674

X/LT	.5620	.6340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0393	-.0140	-.0083	.0618	-.1493
30.000	-.0006	.0000	.0034	.0302	.0623	-.1471
60.000	.0398	.0265	.0044	.0801	.1120	-.1350
90.000	.0429	.0335	.0056	.1284	.2005	-.1334
120.000	.0388	.0589	.0332	.2257	.5014	-.1941
135.000	-.0258	-.0229	.0000	.3725	.5708	
147.000	-.0122	-.0222	.0588	.3734	.6103	-.2000
162.000	-.0020	.0138	.0383	.3718	.5088	
180.000	-.1544	-.0825	.0058	.3401	.3787	-.1770
198.000	-.1342	-.0828	.0611	.2424	.3258	
213.000	-.1800	-.0719	.0510	.2112	.1434	.0000
225.000	-.0731	-.0491	.0498	.2348	.2243	
240.000	-.0288	.0000	.0501	.2177	.1837	-.1578
270.000	.0078	-.0409	.0298	.1583	.3151	-.1484
300.000	.0019	-.0304	-.0084	.0855	.1729	-.1474
330.000	.0000	-.0384	-.0257	.0182	.0814	-.1819

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(8) = 4.182 BETAT (3) = .380

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4446	.4987
PHI															
.000	1.5534	.9800	.9361	1.0027	.7592	.3103	.0026	-.0597	-.1301	-.1163	.1935	-.0350	.1687	.0631	-.0211
30.000		.8210	.8977	.9760	.7353	.2956	.0000	-.0738	-.1418	-.1198	.1793	.1357	.0079	.0043	-.0487
60.000		.6642	.8259	.9307	.6768	.2466	-.0372	-.0930	-.1626	-.1458	.1679	.4586	-.1933	-.1311	-.0445
90.000		.6556	.7732	.8739	.6221	.1903	-.0663	-.1288	-.1866	.1365	.5117	.1547	-.2758	-.1712	-.0246
120.000		.6537	.7344	.8216	.0000	.1391	-.0923	-.1497	-.2103	-.1812	.0636	.0802	-.2660	-.1403	-.1492
135.000			.7157	.8090	.5604	.0000	-.1202	.0000	-.2113	-.2011	.0655	.1309	.0092	.0863	-.1350
147.000		.6337	.6966	.8004	.5578	.0000	-.1167	-.1674	-.2198	-.1968	.0792	.1324	.1824	.1173	-.1502
162.000			.6851	.7846	.0000	.0000	-.1288	-.1708	-.2227	-.2068	.0000	.1347	.2078	-.0421	-.1141
180.000	1.5534	.6267	.6928	.7718	.0000	.1356	-.1072	-.1765	-.2167	-.2139	.0649	.1277	.3734	.1727	-.1091
198.000			.6931	.7936	.0000	.1595	-.0904	-.1901	-.2005	-.1915	.0521	.1047	.3054	-.0879	-.0724
213.000		.6022	.6970	.7824	.0000	.0000	-.2358	-.1196	-.2258	-.2220	-.0005	.1404	.2400	.0889	.0231
225.000			.7307	.8270	.5648	.0000	-.0878	-.1632	-.1931	-.1719	.0563	.0825	-.1120	.0940	-.0604
240.000		.8626	.7612	.8559	.8160	.1566	.0000	-.1506	-.2050	-.1882	.0674	.1047	-.2865	-.0929	-.0854
270.000		.6931	.8000	.9071	.6809	.2307	-.0591	-.1139	-.1863	.1067	.4718	.2633	-.3294	-.1660	.0035
300.000		.7007	.8614	.9580	.7096	.2683	-.0261	-.0868	-.1548	-.1401	.1780	.4983	-.0996	-.1670	-.0481
330.000		.6413	.9288	.9937	.7471	.0000	-.0052	-.0831	-.1311	-.1163	.1815	.0000		.0018	-.0533

X/LT	.6588	.8340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0242	-.0081	.0225	.0722	-.1638
30.000	-.0358	.0000	-.0181	.0304	.0870	-.1731
60.000	.0289	-.0103	-.0167	.0889	.1241	-.1737
90.000	.0362	.0042	-.0063	.1448	.2443	-.1673
120.000	.0103	-.0180	-.0002	.2327	.3391	-.1609
135.000	-.0175	-.0421	.0000	.3985	.3826	
147.000	-.0905	-.0310	.0077	.3804	.3667	-.1635
162.000	-.1569	-.0421	-.0437	.3292	.3079	
180.000	-.1818	.0026	.0221	.3175	.2723	-.1785
198.000	-.1699	-.0990	.0902	.2803	.2326	
213.000	-.1003	-.0151	.0652	.2828	.2147	.0000
225.000	-.0584	-.0088	.0304	.2694	.2500	
240.000	.0033	.0000	.0225	.2011	.2319	-.1660
270.000	.0228	-.0044	.0212	.1372	.2178	-.1500
300.000	.0281	-.0075	.0028	.0822	.0988	-.1488
330.000	.0000	-.0177	-.0025	.0391	.0948	-.1676

ARC87-019 IAS1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT35)

ALPHAT(6) = 4.280 BETAT (4) = 4.710

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2584	.2821	.3382	.3804	.4445	.4987
PHI															
.000	1.5379	.4922	.9018	.8878	.7474	.3150	.0088	-.0833	-.1185	-.1117	.1912	-.0032	.1477	.0355	-.0278
30.000		.4988	.8478	.8855	.6740	.2501	.0000	-.1081	-.1887	-.1538	.1240	.1209	.0488	.0072	-.0652
60.000		.5801	.8895	.8182	.5756	.1716	-.0904	-.1539	-.2119	-.0825	.1025	.5087	-.1422	-.0957	-.0554
90.000		.5882	.8462	.7572	.5190	.1083	-.1314	-.1798	-.2284	.0853	.4497	.2081	-.2424	-.1830	-.0011
120.000		.5258	.8211	.8885	.0000	.0906	-.1476	-.1899	-.2321	-.1085	.0248	.1092	-.1339	-.1954	-.1621
135.000			.8319	.8785	.4895	.0000	-.1368	.0000	-.2387	-.2128	.0627	.0678	.1200	.0530	-.2272
147.000		.5394	.8278	.8952	.4945	.0000	-.1441	-.1950	-.2318	-.2193	.0869	.1238	.2024	.0959	-.2414
162.000			.8188	.7305	.0000	.0000	-.1384	-.1768	-.2400	-.2206	.0000	.1194	.1904	-.1376	-.1179
180.000	1.5379	.5884	.8458	.7881	.0000	.1413	-.1327	-.1703	-.2349	-.2128	.0589	.1178	.3442	.1508	-.1135
198.000			.8779	.8159	.0000	.1382	-.0736	-.1842	-.1980	-.1746	.0538	.1172	.2634	-.0563	.0318
213.000		.6240	.8695	.7754	.0000	.0000	-.2624	-.1062	-.2403	-.2260	.0124	.1302	.1118	.1154	.0918
225.000			.7947	.8621	.8280	.0000	-.0771	-.1107	-.1827	-.1412	.0888	.0755	-.2018	.0451	.0406
240.000		.6808	.8595	.9113	.8829	.2142	.0000	-.0879	-.1717	-.1432	.1477	.0809	-.3136	-.1072	-.0399
270.000		.7126	.8913	.9949	.7658	.3178	.0153	-.0406	-.1210	.2028	.5699	.3205	-.3285	-.1460	.0154
300.000		.7507	.9475	1.0425	.8094	.3738	.0479	-.0102	-.0950	-.0783	.2543	.4219	-.1087	-.1744	-.0418
330.000		.7030	.9819	1.0413	.8051	.0000	.0466	-.0178	-.0934	-.0838	.2275	.0000		-.0554	-.0474

X/LT	.9528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.8008	-.0430	-.0288	-.0033	.0941	-.1538
30.000	-.0745	.0000	-.0258	.0453	.1082	-.1533
60.000	-.0149	-.0357	-.0039	.0915	.1787	-.1600
90.000	.0028	-.0356	.0116	.1595	.3328	-.1389
120.000	.0044	-.0419	.0227	.2615	.2292	-.1539
135.000	-.0247	-.0540	.0000	.2835	.2994	
147.000	-.1184	-.0198	.0471	.2933	.2684	-.1587
162.000	-.1980	-.0046	.0330	.2882	.2228	
180.000	-.1108	-.1243	.0191	.2879	.3334	-.1724
198.000	-.2823	-.2181	.0324	.2520	.5007	
213.000	-.0234	-.0251	.0396	.2854	.4287	.0000
225.000	.0151	.0176	.0001	.2854	.4588	
240.000	.0397	.0000	.0115	.2442	.3725	-.1549
270.000	.0476	.0255	.0226	.1338	.1575	-.1415
300.000	.0413	.0198	.0049	.0900	.1133	-.1383
330.000	.0000	.0084	-.0144	.0295	.0798	-.1533

ARC97-019 IA81 LVAP(ALL HL SEALED) EXTERNAL TANK (RETT35)

ALPHAT(6) = 4.248 BETAT (5) = 6.856

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3804	.4445	.4887
PHI															
.000	1.5467	.5908	.8129	.9721	.7344	.3063	.0026	-.0577	-.1238	-.1097	.1778	.0143	.1080	.0022	-.0398
30.000		.4770	.7750	.8496	.6404	.2105	.0000	-.1188	-.1801	-.1711	.0908	.1061	.0484	-.0035	-.0727
60.000		.5393	.6077	.7458	.5178	.1274	-.1158	-.1771	-.2312	-.0103	.0681	.5053	-.1217	-.0743	-.0478
90.000		.5540	.6236	.6931	.4694	.0736	-.1524	-.2043	-.2543	.0244	.4267	.2624	-.2268	-.1654	.0085
120.000		.5059	.6179	.6310	.0000	.0742	-.1581	-.2009	-.2533	-.0560	.0085	.1099	-.0325	-.1743	-.1558
135.000			.6208	.6320	.4494	.0000	-.1546	.0000	-.2552	-.2142	.0474	.0341	.1262	.0203	-.2493
147.000		.5183	.6233	.6680	.4542	.0000	-.1689	-.2066	-.2423	-.2280	.0551	.0965	.2039	.0639	-.2344
162.000			.6262	.7046	.0000	.0000	-.1419	-.1908	-.2417	-.2312	.0000	.1070	.1904	-.2099	-.1741
180.000	1.5467	.5947	.6252	.7545	.0000	.1328	-.1435	-.1652	-.2369	-.2216	.0356	.1086	.3652	.1502	-.1147
198.000			.6130	.8236	.0000	.1195	-.0789	-.1734	-.2050	-.1791	.0331	.1058	.2313	-.0555	.0274
213.000		.6608	.6053	.7496	.0000	.0000	-.2671	-.1081	-.2256	-.2444	.0139	.1370	.0747	.1232	.1376
225.000			.6956	.8869	.6516	.0000	-.0751	-.0951	-.1556	-.1370	.0953	.0408	-.2273	.0085	.0912
240.000		.7397	.7191	.9347	.7153	.2512	.0000	-.0657	-.1518	-.1151	.1923	.0835	-.3175	-.1084	-.0288
270.000		.8154	.7323	1.0430	.8175	.3684	.0516	-.0032	-.0923	.2325	.6171	.3481	-.2915	-.1330	.0161
300.000		.8600	.7705	1.0866	.8586	.4203	.0864	.0158	-.0669	-.0473	.2946	.4179	-.1067	-.1517	-.0361
330.000		.8024	.8040	1.0582	.8300	.0000	.0681	-.0048	-.0798	-.0629	.2530	.0000		-.0853	-.0534

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0477	-.0416	.0656	.1083	-.1694
30.000	-.0798	.0000	.0328	.0719	.1051	-.1678
60.000	-.0384	-.0544	.0570	.0849	.2080	-.1761
90.000	-.0291	-.0036	.0655	.1921	.3745	-.1420
120.000	-.0247	.0202	.0681	.2544	.2535	-.1675
135.000	-.0408	-.0270	.0000	.3132	.3017	
147.000	-.0919	-.0178	.0760	.3281	.2436	-.1793
162.000	-.1633	-.0463	.1149	.3155	.2052	
180.000	-.2432	-.1395	.0362	3199	.3497	-.1809
198.000	-.3556	-.2751	.0220	.2749	.6060	
213.000	.0363	-.0178	.0542	.3142	.4901	.0000
225.000	.0751	.0560	.0134	.3205	.5168	
240.000	.0729	.0000	.0457	.2792	.4580	-.1688
270.000	.0650	.0456	.0308	.1213	.1572	-.1881
300.000	.0508	.0367	.0183	.0823	.1404	-.1681
330.000	.0000	.0158	-.0131	.0215	.1307	-.1895

ARC87-019 IAB1 LVAP(ALUM SEALED) EXTERNAL TANK (RETT35)

ALPHAT(7) = 8.433 BETAT (1) = -3.888

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2881	.3362	.3904	.4445	.4987
PHI															
.000	1.5583	.4889	.8848	1.0335	.8000	.3558	.0357	-.0283	-.10[illegible]	-.0895	.2271	-.0024	.1354	.0629	.0082
30.000		.6565	.9983	1.0720	.8318	.3930	.0000	-.0054	-.079	-.0657	.2581	.1753	-.0058	-.0074	-.0163
60.000		.7691	.7586	1.0476	.8070	.3627	.0438	-.0213	-.099[illegible]	0895	.2575	.4516	-.1535	-.1434	-.0527
90.000		.7471	.6479	.9695	.7271	.2894	-.0130	-.0776	-.1439	2027	.5682	.1743	-.3352	-.2257	-.0372
120.000		.6730	.6266	.8660	.0000	.1904	-.0735	-.1289	-.1904	-[illegible]36	.1019	-.0224	-.3231	-.1888	-.0716
135.000			.6187	.8213	.5822	.0000	-.0970	.0000	-.2168	-. 028	.0372	.0487	-.1771	-.0309	-.0859
147.000		.6463	.6317	.7927	.5561	.0000	-.1345	-.1727	-.2223	-.2134	.0423	.0522	.0353	.1757	-.0631
162.000			.6428	.7551	.0000	.0000	-.1299	-.1838	-.2429	-.2215	.0000	.0914	.1747	.0765	-.1675
180.000	1.5583	.6086	.6548	.7127	.0000	.0654	-.1435	-.1822	-.2495	-.2276	.0595	.0927	.2768	.1225	-.0735
198.000			.6751	.6847	.0000	.1211	-.1362	-.2068	-.2305	-.2086	.0234	.0646	.2233	-.1469	.0681
213.000		.5430	.7059	.6670	.0000	.0000	-.2568	-.1540	-.2538	-.2344	-.0133	.1093	.1776	.0276	.0049
225.000			.6966	.6513	.4239	.0000	-.1277	-.2109	-.2353	-.2025	.0126	.0366	-.0445	.0232	-.0887
240.000		.5493	.6690	.6920	.4908	.0849	.0000	-.2059	-.2479	-.1369	-.0037	.0825	-.2158	-.2380	-.0751
270.000		.5843	.6927	.7809	.5414	.1211	-.1251	-.1730	-.2373	.0437	.3552	.1813	-.3248	-.2702	-.0444
300.000		.5649	.6805	.8420	.6070	.1924	-.0783	-.1278	-.1970	-.1697	.1171	.7309	.0034	-.0947	-.0388
330.000		.4892	.8110	.9471	.7093	.0000	-.0199	-.0798	-.1452	-.1310	.1503	.0000		.0333	-.0345

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0228	.0048	-.0108	.0430	-.1575
30.000	.0081	.0000	.0220	.0304	.1045	-.1584
60.000	.0517	.0391	.0166	.0918	.1799	-.1492
90.000	.0511	.0445	.0341	.2215	.3310	-.1492
120.000	.0340	.0515	.0407	.2991	.3838	-.1498
135.000	.0129	.0027	.0000	.4057	.5279	
147.000	.0227	.0295	.0817	.4167	.5816	-.1495
162.000	-.0876	.0233	.0649	.4019	.4894	
180.000	-.1704	-.0103	.0054	.3710	.3548	-.1780
198.000	-.1340	-.0322	.0898	.2874	.3103	
213.000	-.1888	-.0344	.0833	.2438	.1848	.0000
225.000	-.0880	-.0221	.0770	.2867	.2279	
240.000	-.0257	.0000	.0722	.2495	.2101	-.1572
270.000	-.0181	-.0888	.0171	.1977	.4210	-.1399
300.000	.0097	-.0145	-.0187	.0858	.2009	-.1453
330.000	.0000	-.0285	-.0288	.0085	.1026	-.1511

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT35)

ALPHAT(7) = 8.432 BETAT (2) = -1.782

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3804	.4445	.4987
PHI															
.000	1.0579	.5708	.9078	1.0457	.8082	.3598	.0385	-.0218	-.0995	-.0824	.2348	-.0138	.1722	.0887	.0160
30.000		.8207	1.0283	1.0432	.8079	.3818	.0000	-.0240	-.0973	-.0838	.2311	.1727	.0157	.0213	-.0147
60.000		.6970	.8239	.9902	.7498	.3135	.0089	-.0560	-.1289	-.1171	.2213	.4868	-.1345	-.1268	-.0510
90.000		.8923	.7533	.9124	.6685	.2336	-.0518	-.1104	-.1722	.1648	.5235	.1515	-.3223	-.2572	-.0327
120.000		.8430	.7323	.8199	.0000	.1490	-.0955	-.1509	-.2119	-.1695	.0528	-.0123	-.2660	-.1808	-.0819
135.000			.7237	.7848	.5505	.0000	-.1202	.0000	-.2239	-.2106	.0330	.1086	-.1193	.0220	-.1154
147.000		.8112	.7021	.7592	.5385	.0000	-.1326	-.1750	-.2303	-.2235	.0490	.0971	.1391	.1392	-.0938
162.000			.6808	.7473	.0000	.0000	-.1433	-.1943	-.2359	-.2254	.0000	.1102	.1771	.0093	-.1284
180.000	1.0578	.5748	.6583	.7190	.0000	.0885	-.1326	-.1849	-.2397	-.2232	.0589	.1054	.3102	.1237	-.1104
198.000			.6496	.6888	.0000	.1067	-.1193	-.2075	-.2192	-.2100	.0429	.0793	.2504	-.1002	.0144
213.000		5441	.6753	.6792	.0000	.0000	-.2512	-.1482	-.2476	-.2325	-.0164	.1178	.2012	.0543	-.0049
225.000			.6907	.7271	.5120	.0000	-.1186	-.1955	-.2219	-.1955	.0184	.0468	-.1170	.0283	-.0791
240.000		.5832	.7142	.7563	.5546	.0963	.0000	-.1804	-.2367	-.1994	.0107	.0513	-.2398	-.1777	-.0884
270.000		.6188	.7698	.8311	.5918	.1650	-.1003	-.1469	-.2084	.0700	.3978	.2215	-.3346	-.2437	-.0086
300.000		.6493	.8067	.9097	.6669	.2384	-.0398	-.0951	-.1685	-.1614	.1550	.7061	-.0221	-.1139	-.0564
330.000		.5896	.8858	.9956	.7518	.0000	.0060	-.0534	-.1274	-.1101	.1869	.0000		.0293	-.0265

X/LT	.5528	.6340	.7423	.8506	.9264	9838
PHI						
.000	.0000	-.0158	.0174	.0125	.0504	-.1561
30.000	-.0148	.0000	.0047	.0223	.1057	-.1538
60.000	.0487	.0268	.0015	.0845	.2048	-.1529
90.000	.0344	.0205	.0148	.2147	.3768	-.1497
120.000	.0145	.0240	.0265	.2792	.3368	-.1513
135.000	.0114	-.0049	.0000	.3538	.4718	
147.000	.0158	.0354	.0779	.3746	.5065	-.1622
162.000	-.0729	.0402	.0210	.3686	.4178	
180.000	-.1786	.0937	.0520	.3312	.3812	-.1833
198.000	-.1164	-.0485	.1064	.2852	.2624	
213.000	-.1631	-.0023	.0890	.2688	.2038	.0000
225.000	-.0809	-.0073	.0637	.2958	.2274	
240.000	-.0107	.0030	.0570	.2360	.2217	-.1588
270.000	.0138	-.0539	.0251	.1937	.4382	-.1414
300.000	.0354	.0031	.0042	.0703	.2038	-.1427
330.000	.0000	-.0035	-.0027	.0208	.0885	-.1561

ARC87-018 IAS1 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT3B)

ALPHA(7) = 0.440 BETA (3) = .300

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0400	.0844	.1204	.1944	.2100	.2323	.2804	.3002	.3382	.3804	.4446	.4007
PHI															
.000	1.0030	.0033	.0000	1.0400	.0112	.3007	.0484	-.0210	-.0074	-.0070	.2307	-.0130	.1000	.0000	.0144
30.000		.0023	.0203	1.0113	.7794	.3327	.0000	-.0471	-.1100	-.0074	.2091	.1000	.0470	.0320	-.0203
60.000		.0410	.0117	.0371	.0000	.2043	-.0100	-.0770	-.1033	-.1300	.1004	.0317	-.1100	-.1132	-.0400
90.000		.0304	.7000	.0000	.0050	.1000	-.0700	-.1340	-.1031	.1220	.4000	.1405	-.3001	-.2712	-.0143
120.000		.0000	.7153	.7007	.0000	.1150	-.1127	-.1071	-.2250	-.1527	.0337	-.0024	-.2004	-.1700	-.1002
135.000			.0020	.7472	.5172	.0000	-.1303	.0000	-.2202	-.2104	.0340	.1007	-.0237	.0477	-.1474
147.000		.0050	.0571	.7431	.5125	.0000	-.1421	-.1040	-.2335	-.2177	.0544	.1141	.1007	.1119	-.1007
102.000			.0345	.7107	.0000	.0000	-.1510	-.1020	-.2300	-.2222	.0000	.1172	.1020	.0103	-.1051
100.000	1.0030	.0032	.0377	.7000	.0000	.1001	-.1317	-.1053	-.2303	-.2200	.0403	.1100	.3030	.1344	-.1215
100.000			.0304	.7251	.0000	.1172	-.1133	-.2124	-.2210	-.2000	.0301	.0050	.2705	-.0725	-.0007
213.000		.0414	.0320	.0004	.0000	.0000	-.2002	-.1441	-.2402	-.2300	-.0215	.1103	.2104	.0700	-.0040
225.000			.0001	.7041	.0504	.0000	-.1200	-.1770	-.2003	-.1000	.0254	.0540	-.1023	.0440	-.0710
240.000		.0320	.7002	.0017	.0000	.1310	.0000	-.1503	-.2277	-.1030	.0340	.0310	-.2700	-.1033	-.0731
270.000		.0000	.0272	.0020	.0500	.2133	-.0734	-.1230	-.1030	.1020	.4400	.2477	-.3430	-.2334	.0132
300.000		.0740	.0002	.0027	.7272	.2010	-.0072	-.0000	-.1400	-.1200	.1055	.0070	-.0410	-.1201	-.0505
330.000		.0117	.0027	1.0200	.7047	.0000	.0200	-.0351	-.1100	-.0020	.2173	.0000		.0277	-.0105

X/LT	.0000	.0340	.7423	.0000	.0004	.0030
PHI						
.000	.0000	-.0075	.0000	.0170	.0023	-.1002
30.000	-.0104	.0000	-.0111	.0004	.1120	-.1705
60.000	.0424	-.0031	.0054	.0011	.2021	-.1721
90.000	.0111	-.0101	.0075	.2004	.3053	-.1770
120.000	-.0072	.0000	.0110	.2001	.3153	-.1505
135.000	-.0000	.0075	.0000	.4230	.4007	
147.000	-.0045	.0323	.0237	.3073	.4027	-.1501
102.000	-.1530	.0000	-.0205	.3721	.3200	
100.000	-.1705	.1102	.0000	.3027	.2005	-.1001
100.000	-.1400	-.0400	.1272	.3205	.2501	
213.000	-.1170	.0130	.0073	.3103	.2400	.0000
225.000	-.0023	.0130	.0710	.3105	.2700	
240.000	-.0002	.0003	.0000	.0504	.2402	-.1000
270.000	.0075	-.0004	.0000	.1040	.4112	-.1440
300.000	.0474	.0047	.0072	.0740	.2100	-.1470
330.000	.0000	.0070	.0001	.0411	.1071	-.1004

ARC97-019 IABI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(7) = 8.482 BETAT (4) = 2.982

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0062	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2884	.2821	.3382	.3804	.4445	.4887
PHI															
.000	1.9483	.4959	.9532	1.0431	.8050	.3817	.0388	-.0804	-.0887	-.0788	.2387	-.0041	.1908	.0829	.0135
30.000		.5048	.8878	.9815	.7429	.3058	.0000	-.0988	-.1288	-.1130	.1804	.1507	.0728	.0400	-.0232
60.000		.5831	.7158	.8879	.6311	.2237	-.0452	-.1149	-.1778	-.1451	.1497	.5761	-.0958	-.0782	-.0463
90.000		.5774	.6868	.7946	.5460	.1437	-.1133	-.1853	-.2143	.0791	.4452	.1409	-.2788	-.2831	-.0415
120.000		.5912	.6852	.7117	.0000	.0949	-.1402	-.1922	-.2419	-.1091	.0017	.0148	-.1702	-.1893	-.1681
135.000			.6385	.7024	.4823	.0000	-.1485	.0000	-.2412	-.2243	.0294	.0863	.0662	.0232	-.1705
147.000		.5245	.6216	.6786	.4865	.0000	-.1462	-.1963	-.2409	-.2226	.0484	.1178	.1829	.0753	-.2356
162.000			.6294	.6741	.0000	.0000	-.1570	-.1833	-.2409	-.2265	.0000	.1188	.2094	-.0359	-.1386
180.000	1.8483	.5089	.6204	.7072	.0000	.0988	-.1462	-.1931	-.2403	-.2249	.0486	.1106	.3154	.1360	-.0668
198.000			.6365	.7529	.0000	.1074	-.1038	-.2109	-.2188	-.1976	.0288	.1112	.2529	-.0429	-.0393
213.000		.6009	.6121	.7068	.0000	.0000	-.2825	-.1387	-.2608	-.2378	-.0134	.1090	.1312	.0902	.0384
225.000			.7338	.7918	.5838	.0000	-.1209	-.1561	-.1959	-.1773	.0371	.0548	-.2675	-.0071	-.0200
240.000		.6480	.8162	.8401	.6308	.1619	.0000	-.1305	-.2098	-.1821	.0652	.0181	-.3043	-.1939	-.0577
270.000		.7091	.8544	.9360	.6983	.2613	-.0378	-.0888	-.1516	.1379	.4939	.2749	-.3568	-.2176	.0081
300.000		.7186	.9226	1.0172	.7792	.3387	.0300	-.0359	-.1104	-.1027	.2364	.5371	-.0521	-.1301	-.0602
330.000		.6343	1.0399	1.0583	.8241	.0000	.0541	-.0068	-.0856	-.0731	.2434	.0000		.0131	-.0130

X/LT	.9528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0008	-.0108	-.0011	.0115	.0558	-.1448
30.000	-.0389	.0000	-.0178	.0169	.1064	-.1504
60.000	.0107	-.0137	-.0068	.0700	.2066	-.1491
90.000	.0040	-.0420	.0005	.1987	.4436	-.1654
120.000	.0068	-.0049	.0167	.2548	.2820	-.1462
135.000	-.0218	.0021	.0000	.3294	.3427	
147.000	-.1252	.0443	.0366	.3483	.2969	-.1405
162.000	-.1991	.0985	.0131	.3272	.2200	
180.000	-.1347	.0316	.0792	.3212	.2712	-.1561
198.000	-.1838	-.1000	.1048	.3052	.3377	
213.000	-.0758	.0094	.0874	.3194	.3358	.0000
225.000	-.0182	.0354	.0627	.3135	.3726	
240.000	.0113	.0000	.0444	.2613	.3224	-.1567
270.000	.0350	-.0011	.0238	.2050	.4356	-.1347
300.000	.0511	.0230	.0074	.0807	.2235	-.1376
330.000	.0000	.0170	.0004	.0258	.1191	-.1500

ARC97-010 IABI LVAP(ALL HL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(7) = 8.473 BETAT (8) = 4.740

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0480	.0844	.1284	.1944	.2108	.2323	.2884	.3821	.3382	.3884	.4446	.4987
PHI															
.000	.4086	-.3238	.8295	.7705	.0000	1.0020	.8304	.3884	.0004	.0020	-.0782	-.0885	.2818	.4886	-.0580
30.000		.0000	.0382	.0583	1.0602	1.0774	.0000	.0000	.0817	.0130	-.0818	-.0513	.2705	.0000	.0904
60.000		-.2318	-.2887	.9814	1.0282	.8004	.3578	.0494	-.0181	-.0850	-.0841	.2333	.0138	.1630	.0618
90.000		.0100	-.3187	.9948	.9247	.7153	.2784	-.0851	-.0795	-.1491	-.1373	.1512	.1303	.0850	.0326
120.000		.0260	-.3207	.8273	.8134	.5846	.1825	-.0787	-.1441	-.2042	.0174	.1180	.5743	-.0720	-.0598
135.000			.0000	.5880	.7405	.5061	.1085	-.1407	-.1846	-.2308	.0521	.4331	.1676	-.2748	-.3162
147.000		-.3280	.4358	.5990	.6801	.0000	.0581	-.1626	-.2050	-.2461	-.0847	-.0108	.0415	-.1310	-.2546
162.000			.3776	.6075	.6337	.4582	.0000	-.1548	.0000	-.2502	-.2185	.0332	.0627	.0951	.0260
180.000	.4086	-.3111	.4444	.6330	.6378	.4613	.0000	-.1535	-.2065	-.2433	-.2261	.0594	.1140	.1872	.0869
198.000			.5300	.6305	.6582	.0000	.0000	-.1578	-.1939	-.2539	-.2318	.0000	.1081	.1805	-.0915
213.000		-.3210	.9429	.6314	.6877	.0000	.1085	-.1563	-.1914	-.2520	-.2322	.0398	.1074	.3212	.1107
225.000			.5102	.6426	.7552	.0000	.0982	-.1058	-.2 [illegible]	-.2220	-.1943	-.0019	.0869	.2183	-.0551
240.000		.3875	.9552	.6340	.6895	.0000	.6000	-.2887	-.1413	-.2530	-.2284	-.0067	.1137	.[illegible]86	.0939
270.000		-.4003	.6232	.7138	.8275	.6184	.0000	-.1110	-.1357	-.1885	-.1656	.0509	.0232	-.2373	-.0319
300.000		-.3610	.6025	.7520	.8754	.8843	.1988	.0000	-.1016	-.1883	-.1497	.1168	.0160	-.3370	-.1848
330.000		-.2458	.7508	.7628	.9026	.7508	.3216	.0020	-.0525	-.1172	.2043	.9524		-.3718	-.1923

X/LT	.9628	.6340	.7423	.8508	.9284	.9838
PHI						
.000	-.1387	-.0000	.0811	.0424	.0191	.0087
30.000	-.0134	.0000	.0000	.0348	.0063	.0327
60.000	.0000	.0000	-.0171	-.0112	-.0063	.0071
90.000	-.0312	-.0522	-1.0418	-.0335	.0241	.1283
120.000	-.0384	-.0148	-.0249	-.0056	.0754	.2313
135.000	-.0000	-.0262	-.0423	-.0100	.1928	
147.000	-.1006	.0051	-.0048	.0788	.2063	.4452
162.000	-.2152	-.0285	.0078	.0000	.3006	
180.000	-.2427	-.1413	.0318	.0087	.3215	.2498
198.000	-.1084	-.2987	.0388	.0020	.3122	
213.000	-.0041	-.1275	-.0082	.1338	.3187	.3141
225.000	.0618	-.2485	-.2073	.0751	.2844	
240.000	.0784	.0032	-.0000	.0000	.3448	.2000
270.000	.0313	.0320	.0870	.0485	.3438	.2134
300.000	-.0484	.0310	.0000	.0488	.2838	.3387
330.000	.0141	.0539	.0283	.0381	.2184	.5047

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38) (04 SEP 75)

REFERENCE DATA

SREF = 2380.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = -4.000
RUDDER = .000 SPDBRK = .000

ALPHAT(1) = -7.089 BETAT (1) = -4.341

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2584	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.8633	.2828	.3494	.6378	.4621	.1174	-.0804	-.1158	-.1555	-.1552	.0047	-.0799	.0210	-.0041	-.0593
30.000		.3455	.3375	.7424	.5059	.1551	.0000	-.0997	-.1405	-.1351	.0334	-.0282	-.0641	-.1726	-.1594
60.000		.3581	.2921	.8503	.6047	.2283	-.0232	-.0585	-.1018	-.1026	.0674	.1643	-.2781	-.2304	-.1495
90.000		.3799	.3079	.9773	.7113	.3140	.0483	-.0024	-.0519	-.0483	.5193	.4181	-.2397	-.1916	-.0436
120.000		.4250	.3603	1.0725	.0000	.3710	.1037	.0460	-.0155	-.0145	.2615	.5611	.0642	.0695	.0949
135.000			.3935	1.1076	.8275	.0000	.1149	.0000	-.0078	.0008	.2699	.2395	.2160	.3022	.1534
147.000		.4536	.4012	1.1173	.8487	.0000	.1187	.0582	.0018	-.0005	.2741	.2198	.3217	.3504	.1873
162.000			.4055	1.1079	.0000	.0000	.1242	.0667	-.0087	-.0037	.0000	.1464	.3497	.1340	.0933
180.000	1.8633	.4610	.4016	1.0689	.0000	.3533	.0857	.0546	-.0116	-.0226	.2453	.1670	.3526	.5670	.0891
198.000			.4029	1.0085	.0000	.3977	.0441	.0319	-.0516	-.0421	.2034	.1628	.3051	.0174	.2014
213.000		.4305	.4465	.7002	.0000	.0000	-.0911	.0184	-.0778	-.0473	.0793	.1312	.2643	.1825	.1828
225.000			.4318	.8829	.5693	.0000	.0371	-.0446	-.0850	-.0701	.1129	.1447	.1577	.1771	.0757
240.000		.3571	.3093	.8388	.6253	.2245	.0000	-.0542	-.1127	-.1110	.1006	.1744	.1921	.1041	.1591
270.000		.3339	.3356	.7293	.5409	.1523	-.0651	-.1047	-.1422	-.1172	.1875	.4605	-.2844	-.1434	-.0526
300.000		.3169	.3491	.6012	.4596	.1027	-.0882	-.1239	-.1611	-.1562	.0018	.1357	-.1746	-.2707	-.1239
330.000		.3063	.3497	.5203	.4345	.0000	-.0911	-.1223	-.1595	-.1552	.0163	.0000		-.0337	-.0755

X/LT	.5628	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0884	-.0803	-.0175	-.0168	-.1665
30.000	-.0499	.0000	-.0603	-.0744	-.0298	-.1597
60.000	-.1895	-.1251	-.0253	-.0181	.1479	-.1781
90.000	-.0055	-.0853	-.0318	-.0357	.6513	-.1820
120.000	.1683	.1215	.0529	.0702	.2885	-.1836
135.000	.1440	.1042	.0000	.2829	.3871	
147.000	.1251	.0910	.0798	.1380	.4340	-.1552
162.000	.0717	.0314	.0257	.0075	.5912	
180.000	.0205	.0330	.0812	-.0300	.5371	-.1855
198.000	.0313	.0942	.0327	.0448	.4407	
213.000	-.0845	-.0597	-.0053	.0171	.0069	.0000
225.000	.0909	.0279	-.0200	.0858	.1368	
240.000	.0899	.0000	-.0380	.0466	.0893	-.1839
270.000	-.1200	-.0388	-.0845	.0255	.4887	-.1891
300.000	-.1607	-.0584	-.0092	-.0093	.1814	-.1708
330.000	.0000	-.0917	-.0380	-.0093	.0034	-.1674

ARC97-019 IAS1 LVAP(ALL.HL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(1) = -7.083 BETAT (2) = -2.145

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1734	.2108	.2383	.2684	.2821	.3382	.3804	.4448	.4887
PHI															
.000	1.0483	.3024	.3423	.6137	.4788	.1088	-.0775	-.1158	-.1534	-.1818	.0227	-.0789	.0374	.0208	-.0414
30.000		.3394	.3497	.7024	.4988	.1411	.0000	-.0980	-.1378	-.1388	.0288	-.0213	-.0287	-.1511	-.1848
60.000		.3555	.3282	.8148	.5881	.1922	-.0324	-.0885	-.1157	-.1148	.0524	.1788	-.2788	-.2327	-.1454
90.000		.3885	.2992	.9245	.6543	.2654	.0229	-.0242	-.0751	-.0857	.4748	.3790	-.2527	-.1885	-.0448
120.000		.3928	.3301	1.0217	.0000	.3300	.0791	.0218	-.0377	-.0361	.2353	.4731	.0751	.0810	.0682
135.000			.3807	1.0682	.7857	.0000	.0903	.0000	-.0191	-.0185	.2411	.2376	.2121	.3054	.1183
147.000		.4234	.3710	1.0894	.8185	.0000	.0970	.0505	-.0066	-.0136	.2547	.2150	.3291	.3411	.1231
162.000			.3783	1.1017	.0000	.0000	.1150	.0521	-.0156	-.0032	.0000	.0990	.3520	.1166	.0697
180.000	1.0483	.4533	.3809	1.0838	.0000	.3412	.0960	.0685	-.0175	-.0107	.2498	.1376	.3861	.5804	.1526
198.000			.3825	1.0451	.0000	.4271	.0627	.0458	-.0367	-.0298	.2258	.1628	.3074	.0425	.2656
213.000		.4292	.4186	.8104	.0000	.0000	-.0441	.0490	-.0495	-.0338	.1038	.1209	.3067	.2107	.2464
225.000			.4423	.9021	.6084	.0000	.0637	-.0182	-.0608	-.0445	.1503	.1968	.1834	.2112	.1039
240.000		.3517	.3151	.9100	.6662	.2613	.0000	-.0278	-.0881	-.0833	.1351	.2160	.1683	.1171	.1058
270.000		.3391	.3305	.7986	.5960	.1846	-.0377	-.0805	-.1204	-.1181	.2424	.4909	-.2835	-.1643	-.0446
300.000		.3243	.3385	.6827	.4891	.1274	-.0695	-.1042	-.1454	-.1435	.0156	.1502	-.1839	-.2821	-.1384
330.000		.2918	.3482	.5455	.4848	.0000	-.0865	-.1167	-.1552	-.1480	.0148	.0000		-.0420	-.0813

X/LT	.9528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0816	-.0501	-.0079	-.0007	-.1677
30.000	-.0241	.0000	-.0523	-.0285	.0185	-.1496
60.000	-.1958	-.0876	-.0443	-.0210	.1334	-.1728
90.000	-.0314	-.1052	-.0347	-.0421	.5543	-.1781
120.000	.1330	.0955	.0253	.0382	.2738	-.1767
135.000	.1221	.0883	.0000	.2240	.3109	
147.000	.0914	.0413	.0581	.1281	.3803	-.1841
162.000	.1019	.0873	.0528	.0353	.4343	
180.000	.0488	.0295	.0574	.0807	.4849	-.1893
198.000	.0047	-.0085	.0391	.0378	.4250	
213.000	-.0337	-.0158	.0190	.0362	.0299	.0000
225.000	.1074	.0493	.0075	.0781	.1553	
240.000	.1080	.0000	-.0130	.0406	.1191	-.1815
270.000	-.0951	-.0414	-.0604	-.0111	.4268	-.1635
300.000	-.1780	-.0485	-.0137	-.0131	.1676	-.1883
330.000	.0000	-.0878	-.0293	-.0095	.0211	-.1538

ARC87-019 IASI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(1) = -7.004 BETAT (3) = .058

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0804	.1294	.1844	.2108	.2323	.2594	.2821	.3382	.3904	.4448	.4887
PHI															
.000	1.0528	.2999	.3572	.0599	.4096	.1237	-.0753	-.1115	-.1512	-.1490	.0408	-.0862	.0472	.0318	-.0319
30.000		.3389	.3494	.6593	.4860	.1320	.0000	-.1042	-.1442	-.1428	.0276	-.0154	-.0157	-.1166	-.1250
60.000		.3514	.3491	.7484	.5369	.1684	-.0479	-.0856	-.1301	-.1291	.0372	.1814	-.2754	-.2856	-.1320
90.000		.3671	.3282	.8578	.6165	.2272	-.0026	-.0504	-.0978	-.0856	.4001	.3476	-.8671	-.1750	-.0444
120.000		.3906	.3240	.9821	.0000	.2911	.0518	-.0042	-.0803	-.0598	.1940	.3311	.0997	.0829	.0388
135.000			.3301	1.0157	.7475	.0000	.0717	.0000	-.0373	-.0412	.2021	.2180	.2144	.2882	.0859
147.000		.4222	.3404	1.0517	.7884	.0000	.0897	.0387	-.0259	-.0263	.2315	.1938	.3259	.3312	.0766
162.000			.3581	1.0742	.0000	.0000	.1012	.0388	-.0120	-.0149	.0000	.0958	.3498	.0582	.1035
180.000	1.0528	.4479	.3750	1.0787	.0000	.3434	.1148	.0632	-.0200	-.0097	.2538	.0504	.4024	.5983	.1846
198.000			.3770	1.0605	.0000	.4393	.0922	.0523	-.0182	-.0188	.2360	.1873	.2959	.0874	.2724
213.000		.3981	.4251	.8955	.0000	.0000	-.0209	.0676	-.0309	-.0250	.1177	.1960	.3203	.2262	.2820
225.000			.5053	1.0223	.8509	.0000	.0900	.0005	-.0354	-.0204	.1769	.2251	.1960	.2379	.1083
240.000		.3382	.3536	.9611	.7095	.3051	.0000	-.0034	-.0614	-.0591	.1642	.2621	.1523	.1150	.0750
270.000		.3417	.3264	.8654	.6338	.2253	-.0068	-.0523	-.0998	-.1040	.3048	.5218	-.2299	-.1851	-.0536
300.000		.3327	.3434	.7440	.5230	.1595	-.0526	-.0872	-.1298	-.1317	.0337	.1725	-.1872	-.2818	-.1498
330.000		.3153	.3517	.6384	.4873	.0000	-.0718	-.1084	-.1483	-.1424	.0285	.0000		-.1013	-.1090

X/LT	.8589	.8340	.7423	.8508	.0884	.9038
PHI						
.000	.0000	-.0780	-.0387	-.0048	.0027	-.1514
30.000	-.0282	.0000	-.0374	-.0233	.0375	-.1602
60.000	-.1885	-.0630	-.0243	-.0259	.1369	-.1666
90.000	-.0563	-.1231	-.0654	-.0336	.4814	-.1728
120.000	.1124	.0672	.0017	.0122	.2689	-.1683
135.000	.1029	.0209	.0000	.2177	.2698	
147.000	.1178	.0145	.0370	.1037	.3135	-.1857
162.000	.0747	.0338	.0404	.0333	.4028	
180.000	.0463	-.0031	.0394	.1175	.4393	-.1898
198.000	-.0355	-.0407	.0509	.0727	.3513	
213.000	.0374	.0274	.0338	.0775	.0854	.0000
225.000	.1294	.0630	-.0048	.1048	.1529	
240.000	.1307	.0000	.0098	.0320	.2030	-.1666
270.000	-.0868	-.1035	-.0478	-.0290	.4441	-.1878
300.000	-.1563	-.0822	-.0112	-.0254	.1447	-.1882
330.000	.0000	-.0727	-.0428	-.0195	.0815	-.1721

ARC97-019 IABI LVAP(ALUM. SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(1) = -7.000 BETAT (4) = 2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0400	.0844	.1004	.1044	.0100	.0202	.0004	.0021	.3302	.3004	.4446	.4007
PHI															
.000	1.0030	.3003	.3000	.0004	.4020	.1215	-.0700	-.1140	-.1507	-.1403	.0100	-.0004	.04	.0209	-.0430
30.000		.3243	.3040	.0021	.4001	.1190	.0000	-.1140	-.1520	-.1503	.0150	-.0093	-.0007	-.0713	-.0039
60.000		.3504	.3505	.0003	.5094	.1430	-.0075	-.1040	-.1450	-.1430	.0100	.1030	-.2070	-.2701	-.1200
90.000		.3004	.3527	.7072	.5722	.1023	-.0305	-.0770	-.1210	-.0700	.3333	.3205	-.2020	-.1593	-.0519
120.000		.3004	.3343	.0010	.0000	.2440	.0004	-.0370	-.0045	-.0040	.1529	.2390	.1131	.0004	.0110
135.000			.3250	.0000	.7154	.0000	.0395	.0000	-.0033	-.0003	.1507	.1000	.2350	.2274	.0307
147.000		.4142	.3314	1.0102	.7560	.0000	.0004	.0007	-.0500	-.0444	.1001	.1700	.3050	.2775	.0520
102.000			.3405	1.0400	.0000	.0000	.0777	.0200	-.0224	-.0300	.0000	.1400	.3100	.0200	.1075
100.000	1.0030	.4300	.3751	1.0700	.0000	.3070	.1204	.0403	-.0157	-.0203	.2400	.2002	.3232	.5002	.1015
190.000			.4100	1.0003	.0000	.4520	.1140	.0530	.0023	-.0115	.2200	.1000	.3120	.1250	.2330
213.000		.3000	.4007	.0002	.0000	.0000	-.0044	.0077	-.0103	-.0230	.1310	.2270	.3150	.2702	.2471
225.000			.0000	1.0727	.7044	.0000	.1105	.0200	-.0101	-.0000	.2095	.2437	.1040	.2500	.1444
240.000		.3540	.4002	1.0200	.7020	.3444	.0000	.0154	-.0440	-.0303	.2000	.3470	.1221	.1027	.0701
270.000		.3040	.3434	.0430	.0032	.2012	.0174	-.0320	-.0703	-.0010	.3735	.0500	-.2107	-.2003	-.0000
300.000		.3004	.3543	.0270	.5010	.1012	-.0340	-.0733	-.1104	-.1174	.0554	.1010	-.1010	-.2020	-.1543
330.000		.3527	.3530	.7100	.5143	.0000	-.0022	-.0070	-.1444	-.1302	.0202	.0000		-.1405	-.1500

X/LT	.0520	.0340	.7423	.0500	.0204	.0030
PHI						
.000	.0000	-.0005	-.0402	-.0002	-.0000	-.1007
30.000	-.0070	.0000	-.0225	-.0053	.0000	-.1004
60.000	-.1754	-.0727	-.0215	-.0100	.1000	-.1571
90.000	-.0010	-.0400	-.0000	-.0332	.5050	-.1510
120.000	.0773	.0417	-.0050	.0302	.0040	-.1403
135.000	.1074	-.0007	.0000	.1305	.2132	
147.000	.0007	.0003	.0151	.0005	.2002	-.1730
102.000	.0200	.0004	.0104	.0020	.3100	
100.000	.0140	-.0200	.0040	.0555	.4235	-.1007
190.000	-.0433	-.0000	.0710	.0024	.3501	
213.000	.0010	.0715	.0437	.0001	.1500	.0000
225.000	.1330	.0002	-.0127	.1300	.2120	
240.000	.1570	.0000	.0100	.0407	.2101	-.1005
270.000	-.0375	-.1014	-.0053	-.0415	.0140	-.1710
300.000	-.1300	-.0700	-.0210	-.0220	.1420	-.1710
330.000	.0000	-.0552	-.0011	-.0337	.0105	-.1704

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ARC97-019 IABI LVA((ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(1) = -8.999 BETAT (5) = 4.437

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6590	.3117	.3488	.6278	.4745	.1229	-.0788	-.1149	-.1535	-.1524	.0162	-.0957	.0312	-.0128	-.0615
30.000		.3043	.3601	.5333	.4517	.1130	.0000	-.1191	-.1542	-.1560	.0255	.0018	-.0812	-.0337	-.0778
60.000		.3401	.3553	.6256	.4591	.1184	-.0817	-.1200	-.1567	-.1534	.0087	.1843	-.2636	-.2707	-.1135
90.000		.3475	.3491	.7225	.5081	.1421	-.0835	-.1027	-.1426	-.0143	.2654	.3449	-.2945	-.1557	-.0477
120.000		.3640	.3227	.8355	.0000	.2044	-.0238	-.0835	-.1074	-.1110	.1148	.1691	.1446	.0633	.1028
135.000			.3063	.9077	.8474	.0000	.0138	.0000	-.0892	-.0876	.1173	.1749	.2225	.2082	.0303
147.000		.3827	.3004	.9590	.7025	.0000	.0414	-.0177	-.0674	-.0687	.1539	.1468	.2783	.3177	.0175
162.000			.3232	1.0143	.0000	.0000	.0610	.0218	-.0390	-.0449	.0000	.1372	.2570	-.0112	.0683
180.000	1.6590	.3917	.3812	1.0643	.0000	.3704	.1152	.0378	-.0089	-.0227	.2318	.1658	.3715	.5398	.0466
198.000			.4667	1.0975	.0000	.4371	.1431	.0518	.0186	.0037	.2331	.1610	.3405	.0906	.2827
213.000		.3498	.4930	1.0803	.0000	.0000	.0167	.1111	.0017	-.0133	.1552	.2212	.3399	.3003	.3045
225.000			.8945	1.1094	.7534	.0000	.1502	.0484	.0131	.0188	.2268	.2299	.1674	.2911	.1882
240.000		.3582	.4578	1.0820	.8102	.3923	.0000	.0420	-.0136	-.0100	.2483	.4229	.1015	.0932	.0981
270.000		.3904	.3424	.9982	.7415	.3157	.0539	-.0006	-.0530	-.0582	.4305	.5984	-.2049	-.2200	-.0774
300.000		.3917	.3312	.8778	.6248	.2383	-.0106	-.0511	-.1029	-.1019	.0766	.1761	-.1901	-.2785	-.1532
330.000		.3649	.3582	.7563	.5336	.0000	-.0546	-.0924	-.1397	-.1345	.0327	.0000		-.1736	-.1696

X/LT	.6528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0893	-.0592	-.0171	-.0071	-.1708
30.000	-.1155	.0000	-.0265	-.0085	-.0029	-.1783
60.000	-.1456	-.0529	-.0262	-.0081	.1752	-.1847
90.000	-.1133	-.0323	-.0618	-.0376	.5241	-.1808
120.000	.0847	.0232	-.0192	.0615	.0909	-.1521
135.000	.0603	-.0245	.0000	.0877	.1843	
147.000	.0520	-.0009	-.0063	.0980	.1882	-.1540
162.000	-.0053	-.0329	-.0219	.0970	.3432	
180.000	-.0228	-.0579	-.0094	.0598	.4543	-.1712
198.000	-.1277	-.1384	.0743	.0695	.4813	
213.000	.1405	.0725	.0567	.1005	.2019	.0000
225.000	.1606	.0991	.0098	.1674	.2328	
240.000	.1840	.0000	.0462	.0821	.2461	-.1754
270.000	-.0104	-.0781	-.0232	-.0228	.8817	-.1788
300.000	-.1031	-.0851	-.0034	-.0388	.1394	-.1782
330.000	.0000	-.0808	-.0841	-.0723	-.0200	-.1931

ARC87-018 IA81 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT38)

ALPHAT(2) = -4.882 BETAT (1) = -8.520

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0400	.0844	.1294	.1944	.2108	.2323	.2884	.3821	.3382	.3804	.4446	.4987
PHI															
.000	1.0000	.2002	.3000	.7247	.5070	.1413	-.0000	-.1819	-.1410	-.1413	.0200	-.0810	.0101	-.0000	-.0542
30.000		.3839	.3308	.8357	.5728	.2013	.0000	-.0837	-.1078	-.1110	.0748	.0015	-.0521	-.1040	-.1585
60.000		.3882	.3124	.9585	.8914	.2916	.0277	-.0095	-.0844	-.0847	.1385	.2480	-.2338	-.2119	-.1134
90.000		.4213	.3575	1.0602	.7888	.3885	.0921	.0353	-.0210	-.0211	.5878	.4483	-.2686	-.2090	-.0846
120.000		.4489	.3910	1.1157	.0003	.4011	.1229	.0852	.0021	-.0019	.2809	.5505	.0021	-.0003	.0808
135.000			.3987	1.1174	.8283	.0000	.1245	.0000	-.0011	-.0051	.2893	.2077	.1348	.2101	.1544
147.000		.4525	.3907	1.1040	.8219	.0000	.1148	.0552	-.0091	-.0100	.2615	.1832	.2879	.3386	.1790
162.000			.3812	1.0659	.0000	.0000	.0854	.0389	-.0186	-.0273	.0000	.1110	.3581	.1610	.0961
180.000	1.0585	.4384	.3783	1.0037	.0000	.3233	.0600	.0015	-.0401	-.0491	.1914	.1545	.3738	.5166	.0574
198.000			.3885	.8292	.0000	.3188	.0129	-.0142	-.0762	-.0781	.1455	.1242	.2814	-.0202	.1761
213.000		.4119	.4408	.5958	.0000	.0000	-.1307	-.0289	-.1085	-.0774	.0325	.1345	.2220	.1295	.0875
225.000			.4145	.7971	.5209	.0000	-.0050	-.0775	-.1139	-.1003	.0677	.1071	.1028	.1338	.0126
240.000		.3791	.3421	.7887	.5770	.1637	.0000	-.0839	-.1371	-.1332	.0793	.1513	.1488	.0449	.0952
270.000		.3398	.3520	.8811	.4780	.1269	-.0762	-.1188	-.1573	-.0397	.1533	.4474	-.3002	-.1620	-.0763
300.000		.3101	.3549	.5273	.4352	.1128	-.0826	-.1178	-.1622	-.1550	.0195	.1406	-.1274	-.2232	-.0817
330.000		.2853	.3443	.6318	.4611	.0000	-.0836	-.1191	-.1618	-.1533	.0108	.0000		-.0411	-.0743

X/LT	.5628	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0730	-.0888	-.0283	-.0212	-.1588
30.000	-.0295	.0000	-.0740	-.0873	-.0385	-.1814
60.000	-.0802	-.1101	-.0130	-.0002	.1618	-.1620
90.000	-.0871	-.0850	-.0342	-.0335	.0482	-.1633
120.000	.2000	.1378	.0828	.1298	.3797	-.1717
135.000	.1115	.0989	.0000	.3178	.3913	
147.000	.0971	.1047	.1063	.1583	.4274	-.1624
162.000	.0252	.0811	.0978	.0828	.6305	
180.000	.0034	.0203	.0005	.0408	.5284	-.1638
198.000	.0002	-.0888	.0328	.0387	.4930	
213.000	-.1351	-.1112	-.0185	.0005	-.0798	.0000
225.000	.0408	-.0031	-.0382	.0573	.1417	
240.000	.0877	.0000	-.0817	.0371	.0808	-.1558
270.000	-.1373	-.0194	-.0104	.0482	.5178	-.1607
300.000	-.0583	-.0802	-.0203	-.0157	.2151	-.1601
330.000	.0000	-.0881	-.0433	-.0222	-.0040	-.1888

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT36)

ALPHAT(2) = -4.000 BETAT (2) = -4.364

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3904	.4448	.4987
PHI															
.000	1.6627	.2857	.3710	.7098	.5133	.1473	-.0587	-.0949	-.1358	-.1379	.0356	-.0864	.0280	.0078	-.0438
30.000		.3742	.3742	.8021	.5577	.1952	.0000	-.0754	-.1201	-.1200	.0680	.0053	-.0075	-.1477	-.1497
60.000		.3951	.3472	.9109	.6450	.2566	-.0002	-.0395	-.0882	-.0855	.1099	.2561	-.2429	-.2182	-.1072
90.000		.4098	.3427	1.0064	.7281	.3191	.0518	-.0001	-.0498	-.0449	.5266	.4058	-.2809	-.2101	-.0896
120.000		.4279	.3607	1.0622	.0000	.3539	.0864	.0338	-.0282	-.0270	.2422	.5854	.0067	.0012	.0615
135.000			.3732	1.0791	.7867	.0000	.0980	.0000	-.0246	-.0244	.2387	.1892	.1772	.2291	.1168
147.000		.4389	.3742	1.0794	.7892	.0000	.0906	.0320	-.0220	-.0208	.2325	.1853	.2843	.3185	.1514
162.000			.3792	1.0606	.0000	.0000	.0826	.0380	-.0313	-.0361	.0000	.1411	.3298	.1234	.0717
180.000	1.6627	.4395	.3766	1.0181	.0000	.3131	.0531	.0182	-.0355	-.0478	.2028	.1685	.3124	.5181	.0621
198.000			.3898	.9835	.0000	.3495	.0166	.0019	-.0703	-.0650	.1680	.1495	.2726	.0085	.1987
213.000		.4247	.4143	.8978	.0000	.0000	-.0818	.0038	-.0847	-.0644	.0505	.1134	.2404	.1629	.1587
225.000			.4195	.8787	.5751	.0000	.0188	-.0585	-.0948	-.0813	.0976	.1298	.1250	.1584	.0218
240.000		.3752	.3491	.8230	.6339	.2035	.0000	-.0674	-.1187	-.1135	.1060	.1653	.1156	.0458	.0071
270.000		.3253	.3517	.7297	.5326	.1611	-.0555	-.0974	-.1415	-.1122	.2051	.4732	-.3108	-.1715	-.0780
300.000		.2902	.3653	.6086	.4972	.1311	-.0703	-.1067	-.1528	-.1470	.0260	.1843	-.1391	-.2400	-.1065
330.000		.2822	.3731	.6344	.4953	.0000	-.0735	-.1083	-.1502	-.1432	.0198	.0000		-.0352	-.0602

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0787	-.0601	-.0154	-.0122	-.1567
30.000	-.0305	.0000	-.0601	-.0541	-.0357	-.1531
60.000	-.0567	-.0893	-.0226	-.0067	.1711	-.1822
90.000	-.0218	-.0919	-.0030	-.0231	.8332	-.1832
120.000	.1569	.1073	.0473	.0717	.3008	-.1838
135.000	.0982	.0903	.0000	.2317	.3529	
147.000	.0738	.0765	.0648	.1171	.4147	-.1593
162.000	.0457	.0197	.0211	.0390	.5753	
180.000	-.0036	.0037	.0640	-.0147	.5235	-.1864
198.000	.0079	.0229	.0240	.0432	.4282	
213.000	-.1139	-.0880	-.0189	.0205	.0145	.0000
225.000	.0431	.0091	-.0291	.0597	.1422	
240.000	.0888	.0000	-.0480	.0529	.0871	-.1683
270.000	-.1178	-.0457	-.0602	.0824	.5277	-.1715
300.000	-.0882	-.0637	-.0125	-.0118	.1894	-.1715
330.000	.0000	-.0829	-.0298	-.0132	.0052	-.1628

ARC97-010 IAB1 LVAP(ALL HL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(2) = -4.000 BETAT (3) = .037

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0194	.0400	.0844	.1294	.1944	.2108	.2323	.2584	.002:	.3382	.3804	.4446	.4987
PHI															
.000	1.0526	.2940	.3774	.6703	.5357	.1517	-.0081	-.0886	-.1380	-.1357	.0567	-.0848	.0802	.0441	-.0184
30.000		.3262	.3733	.7275	.5388	.1851	.0000	-.0914	-.1287	-.1278	.0803	.0115	-.0450	-.0805	-.0899
60.000		.3478	.3887	.7000	.5005	.1942	-.0305	-.0718	-.1172	-.1101	.0877	.0822	-.2398	-.2346	-.1132
90.000		.3571	.3823	.8729	.8207	.2357	.0018	-.0465	-.0929	-.0891	.4291	.3804	-.2978	-.1910	-.0905
120.000		.3868	.3723	.9434	.0000	.2693	.0388	-.0138	-.0721	-.0709	.1782	.3877	.0329	.0239	-.0118
135.000			.3807	.9870	.7038	.0000	.0458	.0000	-.0542	-.0559	.1791	.1778	.1555	.2457	.0811
147.000		.3874	.3849	1.0094	.7493	.0000	.0582	.0090	-.0452	-.0501	.1988	.1834	.2851	.3055	.0589
162.000			.3962	1.0247	.0000	.0000	.0677	.0092	-.0420	-.0387	.0000	.1445	.3019	.0322	.0934
180.000	1.0526	.4018	.4023	1.0251	.0000	.2900	.0687	.0319	-.0452	-.0377	.2092	.1197	.3790	.0472	.1438
198.000			.4111	1.0133	.0000	.3768	.0629	.0175	-.0375	-.0432	.1824	.1426	.2748	.0438	.2852
213.000		.3887	.4583	.8947	.0000	.0000	-.0407	.0424	-.0508	-.0538	.0851	.1551	.2753	.2021	.2334
225.000			.5162	.9888	.6881	.0000	.0684	-.0199	-.0514	-.0390	.1682	.2159	.1545	.2072	.0870
240.000		.3339	.4017	.9536	.7300	.2725	.0000	-.0241	-.0729	-.0657	.1838	.2874	.0707	.0556	.0285
270.000		.3388	.3786	.8876	.8588	.2405	-.0022	-.0487	-.0992	-.0992	.3318	.5341	-.2870	-.1999	-.0867
300.000		.3304	.3786	.7915	.5586	.1852	-.0389	-.0756	-.1220	-.1194	.0712	.2428	-.1537	-.2507	-.1209
330.000		.3036	.3884	.7184	.5377	.0000	-.0600	-.0925	-.1351	-.1285	.0583	.0000		-.0572	-.0813

X/LT	.9888	.6340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0873	-.0424	-.0018	.0020	-.1602
30.000	-.0488	.0000	-.0350	-.0111	.0593	-.1624
60.000	-.0152	-.0812	-.0353	-.0194	.1878	-.1840
90.000	-.0802	-.1350	-.0452	-.0159	.6060	-.1595
120.000	.0800	.0525	-.0215	.0170	.2850	-.1580
135.000	.0739	.0067	.0000	.2095	.2745	
147.000	.0840	-.0081	.0329	.1014	.2790	-.1879
162.000	.0487	-.0138	.0438	.0982	.3784	
180.000	.0208	-.0347	.0348	.1116	.3829	-.1834
198.000	-.0888	-.0874	.0384	.0771	.3034	
213.000	-.0087	-.0010	.0840	.0848	.0887	.0000
225.000	.0788	.0438	-.0888	.1082	.1953	
240.000	.1132	.0000	-.0000	.0388	.1868	-.1618
270.000	-.0878	-.1888	-.0810	-.0188	.6334	-.1831
300.000	-.0813	-.1132	-.0[:1	-.0191	.1887	-.1848
330.000	.0000	-.0488	-.0338	-.0188	.0313	-.1702

ARC87-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(2) = -4.788 BETAT (4) = 4.484

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1284	.1844	.2106	.2323	.2584	.2821	.3382	.3804	.4446	.4887
PHI															
.000	1.0874	.3143	.3730	.7183	.5281	.1563	-.0582	-.0982	-.1392	-.1388	.0438	-.0978	.0442	.0063	-.0512
30.000		.3078	.3588	.6171	.5090	.1370	.0000	-.1085	-.1465	-.1481	.0257	.0184	-.0788	-.0255	-.0853
60.000		.3288	.3897	.8490	.5042	.1319	-.0718	-.1130	-.1481	-.1481	.0312	.2239	-.2358	-.2443	-.0951
90.000		.3448	.3597	.7251	.5219	.1553	-.0623	-.0998	-.1389	-.0799	.3129	.4153	-.3224	-.1864	-.0839
120.000		.3588	.3538	.8123	.0000	.1825	-.0337	-.0770	-.1177	-.1171	.0956	.2128	.0723	.0291	-.0627
135.000			.3507	.8780	.3267	.0000	-.0086	.0000	.1014	-.1027	.0995	.1476	.1860	.1917	.0013
147.000		.3720	.3558	.9209	.6799	.0000	.0151	-.0369	-.0878	-.0835	.1250	.1333	.2506	.2988	-.0019
162.000			.3843	.9678	.0000	.0000	.0273	-.0117	-.0607	-.0688	.0000	.1298	.2325	-.0319	.0484
180.000	1.0874	.3817	.3864	1.0130	.0000	.3117	.0800	.0062	-.0377	-.0512	.1868	.1630	.3562	.5040	.0205
198.000			.4284	1.0537	.0000	.3904	.1086	.0203	-.0088	-.0261	.1958	.1311	.3173	.0825	.2915
213.000		.3768	.4479	1.0534	.0000	.0000	-.0109	.0808	-.0242	-.0372	.1240	.1873	.3000	.2838	.2569
225.000			.5842	1.0742	.7698	.0000	.1147	.0288	-.0076	-.0018	.1798	.1802	.1027	.2380	.1583
240.000		.4039	.4375	1.0713	.8230	.3558	.0000	.0235	-.0241	-.0251	.2368	.4182	.0358	.0198	.0542
270.000		.4129	.4050	1.0255	.7850	.3322	.0638	.0072	-.0538	-.0525	.4504	.6951	-.2813	-.2380	-.1217
300.000		.3778	.3903	.9291	.6631	.2663	.0129	-.0335	-.0884	-.0871	.1137	.2509	-.1943	-.2049	-.1130
330.000		.3484	.3809	.8317	.5824	.0000	-.0266	-.0668	-.1187	-.1185	.0871	.0000		-.1450	-.1488

X/LT	.9588	.8340	.7423	.6508	.6884	.9838
PHI						
.000	.0000	-.0838	-.0371	-.0188	-.0028	-.1698
30.000	-.1065	.0000	-.0348	-.0127	.0307	-.1790
60.000	-.0338	-.0703	-.0234	-.0047	.1771	-.1670
90.000	-.1119	-.0398	-.0571	-.0265	.6155	-.1809
120.000	.0282	.0010	-.0314	.0654	.0871	-.1531
135.000	.0375	-.0664	.0000	.0734	.1885	
147.000	.0020	-.0279	-.0167	.0840	.1716	-.1609
162.000	-.0262	-.0700	-.0388	.1036	.3239	
180.000	-.0444	-.0790	-.0290	.0867	.4174	-.1748
198.000	-.1391	-.1637	.0530	.0590	.4998	
213.000	.0852	.0424	.0539	.0985	.2081	.0000
225.000	.1101	.0771	.0081	.1445	.2260	
240.000	.1613	.0000	.0385	.0815	.2084	-.1888
270.000	-.0223	-.0864	.0081	-.0098	.6738	-.1808
300.000	-.0398	-.0992	-.0148	-.0081	.1725	-.1787
330.000	.0000	-.0324	-.0588	-.0535	-.0373	-.1908

ARC97-019 IAB1 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(I) = -4.745 BETAT (5) = 6.584

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2584	.2821	.3382	.3804	.4445	.4987
PHI															
.000	1.0606	.2540	.3913	.7224	.5062	.1441	-.0822	-.1011	-.1400	-.1408	.0290	-.1910	.0309	-.0179	-.0582
30.000		.2943	.3578	.5894	.4684	.1099	.0000	-.1220	-.1573	-.1540	.0122	.0135	-.0774	-.0359	-.0720
60.000		.2982	.3594	.5370	.4433	.1067	-.0871	-.1271	-.1602	-.1547	.0225	.1987	-.2315	-.2285	-.0707
90.000		.3433	.3562	.6437	.4581	.1122	-.0847	-.1181	-.1541	-.0305	.2475	.4506	-.3208	-.1877	-.0794
120.000		.3523	.3407	.7435	.0000	.1464	-.0581	-.0979	-.1342	-.1358	.0645	.1299	.1164	.0211	.0007
135.000			.3133	.8063	.5652	.0000	-.0330	.0000	-.1211	-.1179	.0842	.1251	.1780	.1577	-.0499
147.000		.3385	.2921	.8521	.8271	.0000	-.0125	-.0613	-.0994	-.1058	.0875	.1083	.2372	.2841	-.0006
162.000			.2988	.9120	.0000	.0000	.0161	-.0183	-.0830	-.0820	.0000	.1038	.1983	-.0770	-.0067
180.000	1.0606	.3391	.3363	.9776	.0000	.3140	.0833	-.0010	-.0458	-.0514	.1767	.1276	.3678	.4820	-.0080
198.000			.4456	1.0498	.0000	.3807	.1237	.0128	-.0023	-.0116	.2094	.1209	.3121	.1137	.3466
213.000		.3514	.4245	1.0518	.0000	.0000	-.0154	.0900	-.0183	-.0354	.1693	.2076	.2912	.2919	.2569
225.000			.6518	1.0983	.8132	.0000	.1320	.0548	.0184	.0200	.2472	.2063	.0738	.2175	.1756
240.000		.4219	.4333	1.1048	.8558	.3885	.0000	.0535	.0060	.0011	.2805	.4693	.0281	.0074	.0718
270.000		.4583	.3799	1.0725	.8122	.3759	.1025	.0426	-.0217	-.0182	.5211	.6340	-.2494	-.2373	-.1255
300.000		.4300	.3581	.9851	.7035	.3025	.0378	-.0112	-.0631	-.0825	.1473	.2411	-.1504	-.2463	-.1101
330.000		.3955	.3734	.8487	.5927	.0000	-.0188	-.0599	-.1133	-.1094	.0788	.0000		-.1620	-.1610

X/LT	.9528	.8340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0758	-.0708	-.0375	-.0239	-.1733
30.000	-.1837	.0000	-.0380	-.0230	.0168	-.1756
60.000	-.0279	-.0724	-.0284	-.0134	.1852	-.1681
90.000	-.1384	-.0557	-.0733	-.0452	.5976	-.1604
120.000	.0213	-.0152	-.0477	.0356	.0788	-.1536
135.000	.0013	-.0649	.0000	.0708	.1307	
147.000	-.0288	-.0377	-.0508	.1231	.1591	-.1585
162.000	-.1853	-.1008	-.0830	.0887	.2400	
180.000	-.1182	-.1215	-.0529	-.0857	.3810	-.1756
198.000	-.1883	-.2091	.0408	-.0157	.6031	
213.000	.1000	.0522	.0834	.0814	.2279	.0000
225.000	.1297	.1000	.0424	.1584	.2531	
240.000	.1915	.0000	.0747	.1038	.3337	-.1988
270.000	-.0145	-.0588	.0087	-.0050	.6627	-.1846
300.000	-.0857	-.1321	-.0141	.0025	.1744	-.1789
330.000	.0000	-.0436	-.0750	-.1130	-.0488	-.1872

ARC97-019 1A81 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT36)

ALPHAT(3) = -2.625 BETAT (1) = -8.529

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.0856	.2856	.3958	.8063	.9595	.1794	-.0396	-.0811	-.1258	-.1209	.0588	-.0842	.0165	.0031	-.0453
30.000		.3833	.3533	.9179	.6292	.2525	.0000	-.0408	-.0886	-.0881	.1151	.0355	-.0060	-.1321	-.1288
60.000		.4058	.3452	1.0162	.7354	.3219	.0462	.0043	-.0508	-.0512	.1747	.3452	-.1931	-.2250	-.0607
90.000		.4248	.3652	1.0868	.7984	.3720	.0933	.0361	-.0213	-.0222	.5937	.4505	-.3010	-.2025	-.0571
120.000		.4332	.3752	1.0904	.0000	.3772	.0990	.0458	-.0178	-.0163	.2510	.4373	-.0463	-.0560	-.0015
135.000			.3697	1.0787	.7900	.0000	.0913	.0000	-.0213	-.0274	.2329	.1624	.0561	.1191	.1246
147.000		.4245	.3610	1.0533	.7687	.0000	.0830	.0262	-.0332	-.0372	.2170	.1443	.2123	.3160	.1431
162.000			.3575	1.0116	.0000	.0000	.0483	-.0001	-.0476	-.0525	.0000	.1038	.3080	.1236	.0750
180.000	1.0856	.4100	.3814	.9472	.0000	.2822	.0259	-.0296	-.0703	-.0757	.1472	.1343	.3725	.4649	.0356
198.000			.3897	.8821	.0000	.2739	-.0149	-.0431	-.0879	-.1001	.1109	.1021	.2492	-.0280	.1678
213.000		.3978	.4181	.8077	.0000	.0000	-.1170	-.0412	-.1171	-.0942	.0155	.1070	.2013	.1124	.0833
225.000			.4092	.7729	.5124	.0000	-.0210	-.0931	-.1233	-.1086	.0540	.0989	.0812	.1134	-.0203
240.000		.3597	.3523	.7312	.5679	.1407	.0000	-.0944	-.1425	-.1399	.0669	.1533	.0725	.0046	-.0453
270.000		.3214	.3562	.6263	.4943	.1231	-.0759	-.1110	-.1575	-.1373	.2038	.4637	-.2973	-.1969	-.0942
300.000		.3040	.3533	.5721	.4782	.1282	-.0782	-.1117	-.1543	-.1507	.0342	.1933	-.0839	-.1854	-.0619
330.000		.2833	.3581	.7116	.4990	.0000	-.0650	-.1024	-.1494	-.1444	.0203	.0000		-.0290	-.0575

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0614	-.0543	-.0332	-.0123	-.1635
30.000	-.0186	.0000	-.0530	-.0492	-.0269	-.1771
60.000	-.0128	-.0473	-.0600	.0158	.2294	-.1645
90.000	-.0441	-.0815	-.0219	-.0185	.7060	-.1700
120.000	.1917	.1218	.0602	.1297	.3681	-.1787
135.000	.0575	.0673	.0000	.3444	.3983	
147.000	.0575	.0782	.1003	.1553	.4196	-.1532
162.000	-.0029	.0330	.0814	.0583	.6065	
180.000	-.0208	-.0135	-.0198	.0484	.4904	-.1554
198.000	-.0179	-.0972	.0174	.0481	.4527	
213.000	-.1662	-.1267	-.0322	.0202	-.0605	.0000
225.000	.0018	-.0254	-.0485	.0692	.1457	
240.000	.0425	.0000	-.0594	.0558	.0815	-.1558
270.000	-.1310	-.0206	-.0620	.1070	.5267	-.1564
300.000	-.0023	-.0543	-.0233	.0011	.1812	-.1577
330.000	.0000	-.0693	-.0303	-.0191	.0317	-.1638

ARC97-019 IAB1 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(3) = -2.814 BETAT (2) = -2.189

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1284	.1944	.2108	.2323	.2584	.2821	.3382	.3004	.4445	.4987
PHI															
.000	1.0543	.3033	.3823	.7871	.5740	.1884	-.0331	-.0727	-.1188	-.1177	.0783	-.0767	.0578	.0485	-.0053
30.000		.3481	.3829	.8329	.5973	.2110	.0000	-.0631	-.1068	-.1050	.1006	.0418	-.0153	-.0820	-.0933
60.000		.3807	.3797	.9028	.6404	.2448	.0015	-.0378	-.0868	-.0877	.1268	.3655	-.2048	-.2267	-.0767
90.000		.3668	.3881	.9655	.6785	.2753	.0273	-.0188	-.0710	-.0848	.4912	.3778	-.3152	-.2061	-.0571
120.000		.3768	.3868	.9866	.0000	.2858	.0385	-.0073	-.0575	-.0607	.1875	.5042	-.0353	-.0582	-.0161
135.000			.4003	.9989	.7013	.0000	.0462	.0000	-.0623	-.0577	.1833	.1385	.1572	.1823	.0575
147.000		.3755	.3991	1.0006	.7088	.0000	.0401	-.0118	-.0582	-.0587	.1811	.1650	.2578	.2761	.0908
162.000			.4065	.9918	.0000	.0000	.0424	-.0038	-.0671	-.0594	.0000	.1653	.2932	.1221	.0437
180.000	1.0543	.3746	.4062	.9700	.0000	.2561	.0212	-.0035	-.0681	-.0659	.1648	.1559	.2938	.4751	.1010
198.000			.4062	.9434	.0000	.3153	.0113	-.0182	-.0745	-.0763	.1404	.1189	.2761	.0276	.2269
213.000		.3813	.4420	.8092	.0000	.0000	-.0701	.0000	-.0825	-.0844	.0370	.1608	.2321	.1720	.1747
225.000			.4774	.8944	.6308	.0000	.0216	-.0547	-.0838	-.0773	.1123	.1621	.1276	.1647	.0434
240.000		.3317	.3952	.8580	.7013	.2068	.0000	-.0582	-.1037	-.0991	.1184	.2453	.0157	-.0117	-.0289
270.000		.3143	.4043	.8064	.5837	.1953	-.0285	-.0697	-.1216	-.1098	.3118	.5155	-.3026	-.1986	-.0959
300.000		.3246	.3741	.7485	.5715	.1825	-.0387	-.0758	-.1268	-.1225	.0816	.2624	-.1097	-.2098	-.0875
330.000		.3281	.3825	.7635	.5717	.0000	-.0451	-.0834	-.1330	-.1233	.0648	.0000		-.0142	-.0367

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0751	-.0364	-.0093	.0020	-.1754
30.000	-.0248	.0000	-.0432	-.0175	.0418	-.1578
60.000	-.0147	-.0371	-.0563	-.0152	.1915	-.1647
90.000	-.0858	-.1237	-.0406	-.0149	.0819	-.1702
120.000	.0075	.0650	.0018	.0453	.2394	-.1702
135.000	.0473	.0327	.0000	.2198	.3209	
147.000	.0138	.0018	.0387	.1188	.4135	-.1889
162.000	.0445	-.0588	-.0015	.0421	.4435	
180.000	-.0137	-.0791	.0671	.1253	.4284	-.1782
198.000	-.0284	-.0138	.0123	.0587	.3878	
213.000	-.1071	-.0781	-.0047	.0574	.0885	.0000
225.000	.0185	.0095	-.0271	.0809	.1712	
240.000	.0872	.0000	-.0348	.0823	.1592	-.1534
270.000	-.0883	-.1536	-.0485	.0185	.5846	-.1583
300.000	.0029	-.0249	-.0194	-.0134	.1850	-.1588
330.000	.0000	-.0537	-.0351	-.0147	.0671	-.1886

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(3) = -2.577 BETAT (3) = 2.232

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2186	.2323	.2584	.2821	.3382	.3934	.4445	.4987
PHI															
.000	1.0592	.3282	.4090	.8089	.5918	.1999	-.0299	-.0730	-.1189	-.1182	.0837	-.0793	.0671	.0500	-.0068
30.000		.3479	.4026	.7741	.5863	.1865	.0000	-.0762	-.1201	-.1224	.0724	.0343	-.0588	-.0094	-.0419
60.000		.3520	.3987	.7715	.5841	.1824	-.0343	-.0791	-.1214	-.1208	.0795	.3246	-.1957	-.2200	-.0809
90.000		.3627	.3919	.8037	.5996	.1977	-.0335	-.0740	-.1144	-.1035	.3892	.4193	-.3071	-.2175	-.0883
120.000		.3675	.3916	.8551	.0000	.2099	-.0095	-.0563	-.1018	-.1012	.1221	.3548	-.0118	-.0387	-.0816
135.000			.3831	.8957	.6308	.0000	-.0008	.0000	-.0895	-.0941	.1186	.1257	.0928	.1851	.0140
147.000		.3685	.3878	.9292	.6621	.0000	.0127	-.0294	-.0847	-.0856	.1334	.1572	.2308	.2355	.0265
162.000			.3913	.9520	.0000	.0000	.0216	-.0310	-.0706	-.0771	.0000	.1456	.2509	.0869	.0729
180.000	1.0592	.3675	.4021	.9728	.0000	.2581	.0431	-.0061	-.0674	-.0709	.1615	.1321	.3444	.4561	.0380
198.000			.4225	.9923	.0000	.3408	.0528	-.0032	-.0483	-.0605	.1596	.1389	.2956	.0859	.1679
213.000		.3517	.4489	.9738	.0000	.0000	-.0419	.0351	-.0588	-.0635	.0792	.1637	.2647	.2493	.2094
225.000			.5302	.9973	.7401	.0000	.0630	-.0125	-.0456	-.0384	.1238	.1231	.0788	.1867	.1151
240.000		.3646	.4268	1.0008	.7849	.2776	.0000	-.0144	-.0612	-.0599	.1841	.3675	-.0136	-.0263	.0041
270.000		.3672	.4177	.9847	.7040	.2805	.0274	-.0195	-.0827	-.0680	.4106	.5687	-.2974	-.2130	-.0710
300.000		.3569	.4151	.9373	.6502	.2482	.0094	-.0358	-.0937	-.0905	.1283	.3466	-.1157	-.2066	-.0880
330.000		.3408	.4125	.8712	.6190	.0000	-.0178	-.0578	-.1081	-.1013	.0973	.0000		-.0669	-.0853

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0770	-.0365	-.0106	-.0019	-.1569
30.000	-.0856	.0000	-.0300	-.0084	.0557	-.1553
60.000	-.0067	-.0399	-.0147	-.0071	.1680	-.1530
90.000	-.0968	-.1301	-.0525	.0057	.6817	-.1507
120.000	.0460	.0168	-.0377	.0760	.1123	-.1414
135.000	.0553	-.0405	.0000	.1136	.2396	
147.000	-.0205	-.0342	.0184	.0988	.1963	-.1750
162.000	-.0224	-.0749	.0047	.1119	.2364	
180.000	-.0275	-.0653	-.0177	.0645	.3707	-.1901
198.000	-.0824	-.1089	.0274	.0965	.3171	
213.000	-.0083	.0132	.0389	.1032	.1706	.0000
225.000	.0527	.0289	-.0161	.1442	.2208	
240.000	.1230	.0000	.0008	.0845	.1870	-.1811
270.000	-.0834	-.1140	-.0078	-.0040	.0000	-.1000
300.000	-.0007	-.0804	-.0000	-.0073	.0010	-.1000
330.000	.0000	-.0000	-.0404	-.0102	.0403	-.1000

ARC87-018 (A8) LVAP(ALLHL SEALED) EXTERNAL TANK (RETT36)

ALPHAT(3) = -2.532 BETAT (4) = 8.887

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0480	.0844	.1284	.1844	.2188	.2323	.2804	.2881	.3382	.3804	.4446	.4887
PHI															
.000	1.0051	.2406	.4068	.8006	.5614	.1853	-.0387	-.0772	-.1208	-.1234	.0800	-.0818	.0420	-.0017	-.0456
30.600		.2553	.3807	.8818	.5098	.1308	.0000	-.1042	-.1488	-.1443	.0867	.0238	-.0883	-.0287	-.0538
60.000		.3824	.3817	.5862	.4775	.1191	-.0784	-.1183	-.1844	-.1908	.0388	.2821	-.1808	-.1948	-.0552
90.000		.3248	.3848	.6285	.4778	.1189	-.0823	-.1167	-.1486	-.1036	.2847	.5281	-.3085	-.1810	-.0833
120.000		.3417	.3552	.7058	.0003	.1274	-.0076	-.1084	-.1387	-.1410	.0537	.2281	.0345	-.0130	-.1004
135.000			.3458	.7717	.5404	.0000	-.0496	.0000	-.1313	-.1280	.0513	.1133	.1588	.1429	-.0584
147.000		.3372	.3398	.8201	.6005	.0000	-.0310	-.0778	-.1189	-.1189	.0820	.1033	.2136	.2405	-.0104
162.000			.344C	.8867	.0000	.0000	-.0130	-.0443	-.1022	-.1019	.0000	.0968	.1862	-.0814	-.0203
180.000	1.0051	.3462	.3458	.9243	.0000	.2825	.0303	-.0289	-.0718	-.0771	.1418	.1182	.3430	.4112	-.0136
198.000			.3728	.9881	.0000	.3297	.0894	-.0174	-.0282	-.0374	.1758	.1191	.2833	.0818	.3104
213.000		.3817	.376J	.9890	.0000	.0000	-.0498	.0575	-.0481	-.0638	.1389	.1710	.2582	.2408	.2307
225.000			.6192	1.0548	.8189	.0000	.0881	.0377	-.0045	-.0055	.2197	.1575	.0224	.1532	.1491
240.000		.4587	.4218	1.0898	.8573	.3543	.0000	.0431	-.0201	-.0130	.2860	.4281	-.0318	-.0478	.0184
270.000		.4708	.4144	1.0928	.8198	.3827	.0884	.0486	-.0221	-.0130	.5348	.6365	-.2825	-.2078	-.0453
300.000		.4348	.4008	1.0177	.7382	.3308	.0637	.0127	-.0485	-.0452	.1881	.3297	-.1148	-.2083	-.0741
330.000		.3881	.3838	.9188	.8464	.0000	.0117	-.0327	-.0892	-.0878	.1206	.0000		-.1253	-.1352

X/LT	.5580	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0868	-.0898	-.0631	-.0378	-.0284	-.1887
30.000	-.0888	.0000	-.0384	-.0215	.0298	-.1648
60.000	-.0886	-.0418	-.0374	-.0142	.1740	-.1603
90.000	-.1337	-.0888	-.0708	-.0282	.0495	-.1538
120.000	.0038	-.0408	-.0576	.0498	.1186	-.1458
135.000	-.0134	-.0821	.0000	.0788	.1587	
147.000	-.0887	-.0848	-.0608	.1261	.1887	-.1545
162.000	-.1104	-.1388	-.0888	.0838	.2372	
180.000	-.1286	-.1386	-.0838	-.0870	.3388	-.1026
198.000	-.1796	-.2230	.0355	-.0395	.6460	
213.000	.9728	.0318	.0825	.0621	.2385	.0000
225.000	.0883	.0836	.0412	.1733	.2737	
240.000	.1837	.0008	.0817	.1198	.3586	-.2011
270.000	-.0519	-.0753	-.0103	.0838	.7132	-.1703
300.000	-.0821	-.3500	-.0885	.0186	.7382	-.1786
330.000	.0008	-.0387	-.0513	-.0519	-.0388	-.1888

ARC87-019 1AB1 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(4) = -.387 BETAT (1) = -8.830

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3904	.4448	.4987
PHI															
.000	1.6701	.2675	.4104	.8785	.6210	.2170	-.0122	-.0571	-.1049	-.1063	.0937	-.0695	.0307	.0257	-.0250
30.000		.3972	.3701	.9774	.8910	.2918	.0000	-.0170	-.0684	-.0869	.1577	.0682	.0316	-.0949	-.0954
60.000		.4223	.3858	1.0589	.7745	.3495	.0868	.0241	-.0351	-.0385	.2107	.4372	-.1658	-.1759	-.0541
90.000		.4278	.3717	1.0930	.8062	.3748	.0941	.0392	-.0217	-.0215	.5906	.4848	-.3003	-.1714	.0122
120.000		.4217	.3639	1.0575	.0000	.3527	.0806	.0267	-.0332	-.0352	.2201	.3510	-.0968	-.1042	-.0019
135.000			.3517	1.0285	.7445	.0000	.0611	.0000	-.0406	-.0453	.1998	.1220	-.0048	.0189	.0830
147.000		.1088	.3449	.9868	.7191	.0000	.0533	.0018	-.0562	-.0617	.1742	.1091	.1478	.2964	.1134
162.000			.3548	.9465	.0000	.0000	.0171	-.0297	-.0761	-.0750	.0000	.1081	.2572	.1536	.0603
180.000	1.6701	.3952	.3663	.8814	.0000	.2519	-.0009	-.0562	-.0979	-.0962	.1067	.1146	.3705	.4083	.0189
198.000			.3820	.8114	.0000	.2311	-.0395	-.0655	-.1184	-.1191	.0811	.0900	.2282	-.0467	.1560
213.000		.3765	.4040	.8072	.0000	.0000	-.1121	-.0585	-.1280	-.1129	.0003	.0881	.1826	.0932	.0798
225.000			.4021	.7262	.4978	.0000	-.0385	-.1049	-.1318	-.1210	.0433	.1088	.0861	.0897	-.0426
240.000		.3485	.3540	.6778	.5575	.1254	.0000	-.1043	-.1484	-.1422	.0588	.1762	-.0042	-.0320	-.0746
270.000		.3098	.3640	.5704	.4868	.1232	-.0735	-.1081	-.1540	-.1474	.3126	.4323	-.2827	-.1159	-.0080
300.000		.3191	.3569	.6604	.5026	.1389	-.0738	-.1062	-.1497	-.1458	.0485	.1633	-.0312	-.1524	-.0294
330.000		.2885	.3741	.7713	.5383	.0000	-.0472	-.0857	-.1328	-.1290	.0456	.0000		-.0179	-.0338

X/LT	.8528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0495	-.0412	-.0366	-.0171	-.1576
30.000	-.0185	.0000	-.0342	-.0270	.0328	-.1613
60.000	.0123	-.0012	-.0194	-.0289	.2035	-.1578
90.000	-.0530	-.1183	-.0718	-.0545	.7278	-.1628
120.000	.1436	.0908	.0812	.1277	.4120	-.1738
135.000	.0456	.0401	.0000	.3396	.4116	
147.000	.0594	.0330	.0699	.1657	.4458	-.1447
162.000	-.0313	-.0062	.0489	.0543	.6202	
180.000	-.0412	-.0608	-.0401	.1056	.4896	-.1505
198.000	-.0450	-.0968	.0012	.0764	.4278	
213.000	-.1805	-.1373	-.0366	.0473	-.0461	.0000
225.000	-.0185	-.0464	-.0430	.0674	.1529	
240.000	.0088	.0000	-.0449	.0687	.0958	-.1489
270.000	-.1091	-.0393	-.0577	.0428	.4948	-.1508
300.000	.0056	-.0303	-.0359	.0198	.1838	-.1534
330.000	.0000	-.0583	-.0282	-.0233	.0286	-.1544

ARC97-019 IA81 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT38)

ALPHAT(4) = -.388 BETAT (2) = -4.384

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1284	.1944	.2106	.2323	.2884	.2881	.3382	.3804	.4446	.4987
PHI															
.000	1.8584	.2573	.4219	.8768	.6224	.2244	-.0073	-.0514	-.0980	-.0984	.1093	-.0781	.0437	.0498	-.0022
30.000		3855	.3942	.9580	.6892	.2705	.0000	-.0241	-.0772	-.0781	.1387	.0859	.0108	-.0708	-.0820
60.000		.4010	.3952	1.0068	.7224	.3057	.0420	-.0058	-.0590	-.0573	.1810	.4747	-.1621	-.1748	-.0837
90.000		.4113	.3923	1.0345	.7440	.3217	.0558	.0045	-.0500	-.0485	.5323	.4255	-.3014	-.1690	.0045
120.000		.4084	.3916	1.0094	.0000	.3078	.0491	-.0023	-.0542	-.0540	.1878	.3701	-.0934	-.1034	.0132
135.000			.3897	.9944	.7034	.0000	.0443	.0000	-.0593	-.0654	.1700	.1037	.0405	.0758	.0654
147.000		.3978	.3875	.9778	.6902	.0000	.0375	-.0177	-.0737	-.0706	.1597	.1214	.1953	.2736	.0878
162.000			.3881	.9407	.0000	.0000	.0099	-.0270	-.0791	-.0850	.0000	.1237	.2865	.1675	.0372
180.000	1.6594	.3755	.3884	.8851	.0000	.2359	-.0093	-.0475	-.0862	-.0951	.1206	.1243	.2566	.4347	.0343
198.000			.3897	.8294	.0000	.2577	-.0257	-.0513	-.1051	-.1055	.0999	.1292	.2251	.0264	.2150
213.000		.3533	.4131	.8670	.0000	.0000	-.0986	-.0414	-.1105	-.1068	.0078	.0840	.1923	.1357	.1381
225.000			.4450	.7734	.5669	.0000	-.0199	-.0862	-.1146	-.1052	.0701	.1166	.1090	.1198	-.0061
240.000		.3220	.3978	.7428	.6195	.1591	.0000	-.0878	-.1312	-.1244	.0779	.2024	-.0288	-.0595	-.0739
270.000		.3137	.3790	.6778	.5489	.1578	-.0562	-.0907	-.1381	-.1316	.2990	.4939	-.2828	-.1630	-.0147
300.000		.3148	.4060	.7337	.5485	.1780	-.0527	-.0865	-.1325	-.1316	.0714	.2217	-.0446	-.1611	-.0678
330.000		.2631	.4180	.8002	.5718	.0000	-.0299	-.0718	-.1224	-.1167	.0730	.0000		-.0051	-.0284

X/LT	.5529	.6340	.7423	.8508	.9264	.9838
PHI						
.000	.0000	-.0553	-.0350	-.0238	-.0082	-.1566
30.000	-.0153	.0000	-.0315	-.0213	.0430	-.1489
60.000	.0084	-.0068	-.0125	-.0271	.1642	-.1482
90.000	-.0819	-.1328	-.0559	-.0316	.6888	-.1615
120.000	.0948	.0635	.0391	.0792	.3497	-.1709
135.000	.0433	.0224	.0000	.2800	.3797	
147.000	.0315	.0208	.0382	.1385	.4093	-.1628
162.000	.0142	-.0267	.0097	.1018	.5561	
180.000	-.0409	-.0446	.0203	.0462	.5049	-.1687
198.000	-.0233	-.0212	-.0018	.0744	.4296	
213.000	-.1735	-.1290	-.0207	.0696	.0518	.0000
225.000	-.0124	-.0315	-.0290	.0795	.1743	
240.000	.0270	.0000	-.0498	.0850	.1186	-.1524
270.000	-.1219	-.1011	-.0662	.0492	.5046	-.1557
300.000	.0132	-.0158	-.0319	.0289	.2102	-.1566
330.000	.0000	-.0440	-.0293	-.0160	.0319	-.1586

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(4) = -.377 BETAT (3) = .012

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.6527	.3111	.4258	.8895	.6348	.2254	-.0045	-.0478	-.0983	-.0957	.1187	-.0588	.0855	.0706	.0198
30.000		.3452	.4000	.8682	.6348	.2388	.0000	-.0488	-.0937	-.0915	.1222	.0562	-.0322	.0017	-.0268
60.000		.3887	.3942	.8715	.6288	.2392	.0006	-.0379	-.0879	-.0905	.1325	.4343	-.1584	-.1825	-.0874
90.000		.3758	.3923	.8760	.6336	.2379	.0061	-.0408	-.0918	-.0892	.4407	.4146	-.2978	-.1638	-.0339
120.000		.3946	.3926	.8718	.0000	.2293	.0070	-.0366	-.0854	-.0892	.1364	.3910	-.0806	-.1198	-.0752
135.000			.3933	.8832	.6336	.0000	.0093	.0000	-.0902	-.0853	.1328	.0878	.1104	.1303	.0122
147.000		.3775	.3907	.8890	.6394	.0000	.0006	-.0434	-.0854	-.0802	.1325	.1310	.2181	.2183	.0481
162.000			.3955	.8887	.0000	.0000	.0077	-.0390	-.0963	-.0856	.0000	.1388	.2723	.0579	.0430
180.000	1.6527	.3643	.3994	.8887	.0000	.2047	.0029	-.0313	-.0975	-.0886	.1351	.1184	.2399	.3862	.0977
198.000			.4092	.8877	.0000	.2785	.0016	-.0383	-.0822	-.0872	.1025	.1162	.2103	.0518	.2489
213.000		.3372	.4248	.8608	.0000	.0000	-.0742	-.0111	-.0899	-.0938	.0359	.1488	.2026	.1871	.1390
225.000			.4862	.8939	.7013	.0000	.0183	-.0524	-.0807	-.0719	.0795	.1133	.0522	.1381	.0570
240.000		.3459	.4235	.8955	.7429	.2165	.0000	-.0502	-.0970	-.0869	.1390	.3059	-.0449	-.0887	-.0557
270.000		.3685	.4209	.9010	.6300	.2242	-.0100	-.0457	-.0973	-.0915	.3684	.5446	-.2966	-.2024	-.0105
300.000		.3691	.4209	.8897	.6288	.2306	-.0055	-.0435	-.0957	-.0925	.1316	.3356	-.0616	-.1668	-.1047
330.000		.3572	.4225	.8894	.6329	.0000	-.0048	-.0473	-.1022	-.0976	.1151	.0000		-.0012	-.0229

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0729	-.0220	-.0114	-.0014	-.1492
30.000	-.0678	.0000	-.0287	-.0082	.0146	-.1557
60.000	.0008	-.0098	-.0188	-.0114	.1834	-.1482
90.000	-.1216	-.1549	-.0772	-.0201	.7062	-.1479
120.000	.0152	.0072	-.0323	.0270	.2672	-.1560
135.000	.0284	-.0179	.0000	.2217	.2962	
147.000	.0030	-.0429	.0194	.1506	.2620	-.1822
162.000	-.0268	-.0740	.0293	.1519	.3376	
180.000	-.0338	-.0981	.0123	.1490	.2705	-.1893
198.000	-.0265	-.0644	.0056	.1199	.2154	
213.000	-.1318	-.0480	.0062	.1298	.1420	.0000
225.000	.0107	.0034	-.0428	.1310	.1802	
240.000	.0581	.0000	-.0338	.0599	.2252	-.1528
270.000	-.0937	-.1469	-.0495	-.0085	.5981	-.1531
300.000	.0174	.0005	-.0217	-.0085	.1717	-.1537
330.000	.0000	-.0178	-.0287	-.0092	.0882	-.1589

ARC97-019 IASI LVAP(ALL HL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(4) = -.378 BETAT (4) = 4.379

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2604	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.0000	.2579	.4484	.9056	.6228	.2292	-.0028	-.0488	-.0981	-.0880	.1118	-.0714	.0605	.0425	-.0068
30.000		.2782	.4278	.8132	.5851	.1953	.0000	-.0718	-.1172	-.1173	.0785	.0462	-.0416	-.0086	-.0267
60.000		.3349	.4010	.7481	.5567	.1677	-.0438	-.0891	-.1304	-.1300	.0750	.2919	-.1507	-.1381	-.1068
90.000		.3814	.3994	.7185	.5544	.1623	-.0587	-.0997	-.1358	-.1202	.3817	.5105	-.2020	-.1741	-.1199
120.000		.3572	.3991	.7422	.0000	.1549	-.0457	-.0897	-.1316	-.1293	.0760	.2729	-.0532	-.0884	-.0571
135.000			.3955	.7798	.5825	.0000	-.0441	.0000	-.1230	-.1251	.0721	.0734	.0643	.1438	-.0325
147.000		.3585	.3913	.8106	.5828	.0000	-.0300	-.0698	-.1195	-.1146	.0811	.1218	.1967	.2366	-.0078
162.000			.3949	.8464	.0000	.0000	-.0239	-.0657	-.1032	-.1078	.0000	.1005	.2035	-.0395	.0313
180.000	1.0000	.3472	.4027	.8988	.0000	.2148	.0143	-.0478	-.0894	-.0957	.1167	.1037	.3347	.4249	-.0132
198 000			.4131	.9411	.0000	.2951	.0484	-.0401	-.0587	-.0729	.1306	.1057	.2604	.0798	.2130
213.000		.3578	.4200	.9333	.0000	.0000	-.0682	.0175	-.0750	-.0820	.0805	.1363	.2196	.2225	.1710
225.000			.5215	.9879	.7945	.0000	.0445	-.0042	-.0462	-.0439	.1558	.1021	.0055	.1191	.0893
240.000		.3955	.4486	1.0153	.8233	.2980	.0000	.0050	-.0628	-.0550	.1910	.3588	-.0764	-.0927	-.0299
270.000		.4042	.4506	1.0412	.7481	.3255	.0551	.0111	-.0527	-.0511	.4571	.6086	-.3027	-.2042	.0146
300.000		.3942	.4457	1.0224	.7255	.3204	.0554	.0047	-.0583	-.0582	.1852	.4340	-.0710	-.1680	-.0966
330.000		.3633	.4336	.9740	.6816	.0000	.0252	-.0206	-.0768	-.0718	.1458	.0000		-.0629	-.0825

X/LT	.5528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0611	-.0408	-.0250	-.0188	-.1528
30.000	-.0671	.0000	-.0305	-.0125	.0203	-.1612
60.000	.0807	-.0246	-.0295	-.0039	.2039	-.1590
90.000	-.1334	-.0693	-.0565	.0560	.6309	-.1548
120.000	-.0076	-.0398	-.0636	.0993	.1345	-.1463
135.000	-.0675	-.1124	.0000	.1019	.2235	
147.000	-.0569	-.0888	-.0228	.1153	.1901	-.1841
162.000	-.0611	-.1150	-.0708	.1307	.2623	
180.000	-.0803	-.1079	-.1045	.0881	.3820	-.1826
198.000	-.1433	-.1779	.0230	.0608	.4705	
213.000	.0138	.0058	.0378	.0903	.2065	.0000
225.000	.0085	.0331	.0070	.1276	.2368	
240.000	.0818	.0000	.0288	.0781	.8788	-.1888
270.000	-.0745	-.1272	-.0388	-.0178	.7008	-.1884
300.000	.0080	-.0108	-.0132	-.0387	.1882	-.1888
330.000	.0000	.0000	-.0240	-.0288	.0484	-.1798

ARC87-019 IAS1 LVAP(ALLHL SEALED) EXTERNAL TANK (RET738)

ALPHAT(4) = -.323 BETAT (5) = 8.589

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1284	.1944	.2106	.2323	.2584	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.0867	.2298	.4252	.8783	.8132	.2289	-.0057	-.0540	-.1018	-.1028	.0963	-.0752	.0510	.0194	-.0274
30.000		.2588	.3894	.7624	.5498	.1677	.0000	-.0870	-.1287	-.1289	.0494	.0387	-.0500	-.0202	-.0363
60.000		.3065	.3688	.6871	.4870	.1313	-.0665	-.1089	-.1472	-.1449	.0539	.2086	-.1384	-.1282	-.0838
90.000		.3162	.3662	.5987	.4908	.1297	-.0790	-.1166	-.1498	-.1328	.3742	.5143	-.1942	-.1672	-.1027
120.000		.3275	.3672	.6703	.0000	.1172	-.0729	-.1108	-.1472	-.1442	.0523	.2355	-.0271	-.0343	-.0719
135.000			.3807	.7217	.5102	.0000	-.0639	.0000	-.1398	-.1398	.0459	.0613	.1194	.1121	-.0562
147.000		.3291	.3594	.7588	.5499	.0000	-.0459	-.0922	-.1325	-.1295	.0452	.1084	.1836	.2005	-.0229
162.000			.3549	.8073	.0000	.0000	-.0389	-.0668	-.1181	-.1188	.0000	.0994	.1677	-.0649	-.0312
180.000	1.0867	.3294	.3656	.8698	.0000	.2189	-.0003	-.0531	-.0957	-.0940	.1109	.1068	.3105	.3559	-.0508
198.000			.3892	.9402	.0000	.2813	.0601	-.0438	-.0512	-.0581	.1381	.1220	.2613	.0787	.3200
213.000		.3740	.3787	.9174	.0000	.0000	-.0909	.0251	-.0790	-.0907	.1012	.1287	.2263	.2026	.2037
225.000			.5049	1.0126	.8175	.0000	.0492	.0208	-.0271	-.0261	.1925	.1204	-.0186	.0586	.1248
240.000		.4375	.4451	1.0574	.8480	.3431	.0000	.0353	-.0378	-.0256	.8313	.3852	-.0748	-.0986	-.0187
270.000		.4888	.4480	1.0942	.8833	.3717	.0988	.0448	-.0188	-.0186	.5290	.6391	-.2884	-.2058	.0207
300.000		.4362	.4487	1.0889	.7848	.3860	.0886	.0316	-.0333	-.0340	.2813	.4194	-.0784	-.1884	-.0850
330.000		.3885	.4242	.9828	.6948	.0000	.0395	-.0070	-.0666	-.0635	.1581	.0000		-.0838	-.1068

X/LT	.8528	.8340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0566	-.0514	-.0425	-.0395	-.1530
30.000	-.0742	.0000	-.0359	-.0249	.0141	-.1569
60.000	-.0038	-.0297	-.0420	-.0149	.1825	-.1520
90.000	-.0880	-.0813	-.0652	.0066	.6632	-.1465
120.000	-.0130	-.0523	-.0658	.0822	.1580	-.1391
135.000	-.0811	-.1070	.0000	.1017	.1890	
147.000	-.1005	-.0951	-.0700	.1457	.1770	-.1462
162.000	-.1290	-.1619	-.1037	.1210	.2338	
180.000	-.1411	-.1388	-.1034	-.0204	.3245	-.1792
198.000	.1883	-.2233	.0114	-.0354	.6709	
213.000	.0517	.0013	.0504	.1011	.2547	.0000
225.000	.0948	.0518	.0255	.1838	.2898	
240.000	.1170	.0000	.0719	.1074	.3839	-.2012
270.000	-.0438	-.1121	-.0515	-.0178	.6841	-.1614
300.000	.0081	-.0099	-.0290	-.0328	.2119	-.1653
330.000	.0000	-.0083	-.0303	-.0333	.0383	-.1908

ARC87-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(6) = 1.631 BETAT (1) = -6.817

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0400	.0844	.1284	.1944	.2108	.2383	.2884	.2821	.3382	.3884	.4446	.4887
PHI															
.000	1.0000	.2509	.4342	.0473	.6719	.2662	.0220	-.0254	-.0001	-.0889	.1342	-.0516	.0240	.0385	-.0002
30.000		.4184	.3900	1.0377	.7422	.3329	.0000	.0157	-.0414	-.0457	.1980	.1013	.0282	-.0546	-.0620
60.000		.4377	.3842	1.0897	.8054	.3765	.0994	.0407	-.0206	-.0193	.2436	.5534	-.1124	-.1305	-.0805
90.000		.4300	.3707	1.0848	.7990	.3707	.0949	.0378	-.0232	-.0216	.5745	.4717	-.3017	-.1515	.0261
120.000		.4113	.3543	1.0133	.0000	.3211	.0844	.0121	-.0487	-.0503	.1817	.2853	-.1337	-.1396	-.0184
135.000			.3395	.9884	.6981	.0000	.0349	.0000	-.0628	-.0814	.1849	.0879	-.0518	-.0423	.0725
147.000		.3885	.3401	.9349	.6864	.0000	.0198	-.0208	-.0734	-.0812	.1339	.0798	.0927	.2699	.0863
162.000			.3575	.8784	.0000	.0000	-.0078	-.0535	-.0983	-.0969	.0000	.1063	.2091	.1817	.0378
180.000	1.0000	.3848	.3799	.8055	.0000	.2084	-.0257	-.0759	-.1168	-.1158	.0728	.0956	.3627	.3611	-.0031
198.000			.3903	.7392	.0000	.1884	-.0584	-.0826	-.1299	-.1314	.0573	.0850	.2049	-.3688	.1654
213.000		.3620	.3959	.5562	.0000	.0000	-.1216	-.0721	-.1383	-.1275	-.0115	.0646	.1889	.0871	.0815
225.000			.3910	.6755	.4949	.0000	-.0498	-.1136	-.1386	-.1275	.0392	.0798	.0961	.0696	-.0399
240.000		.3302	.3614	.6087	.5494	.1153	.0000	-.1085	-.1498	-.1425	.0431	.1982	-.0620	-.0767	.0107
270.000		.3153	.3817	.6023	.4968	.1166	-.0738	-.1066	-.1509	-.1447	.1998	.4887	-.2838	-.1071	.0101
300.000		.3173	.3479	.7328	.5087	.1575	-.0607	-.0948	-.1392	-.1353	.0802	.1156	.0330	-.1132	-.0706
330.000		.2951	.3591	.8386	.5751	.0000	-.0228	-.0625	-.1145	-.1123	.0748	.0000		.0188	-.0073

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0425	-.0284	-.0307	-.0240	-.1418
30.000	-.0258	.0000	-.0065	-.0169	.0353	-.1444
60.000	.0504	.0273	.0154	.0052	.1256	-.1438
90.000	.0581	-.0284	-.0252	-.0894	.6045	-.1522
120.000	.1028	.0633	.0453	.1192	.4783	-.1571
135.000	.0244	.0141	.0000	.3184	.4545	
147.000	.0792	.0080	.0383	.1650	.4851	-.1480
162.000	-.0408	-.0293	.0011	.0965	.8503	
180.000	-.0528	-.0448	-.0518	.1199	.4880	-.1483
198.000	-.0704	-.0557	-.0092	.0834	.4210	
213.000	-.1898	-.1416	-.0226	.0684	-.0201	.0000
225.000	-.0476	-.0573	-.0198	.0872	.1710	
240.000	-.0111	.0000	-.0271	.0898	.1305	-.1438
270.000	.0139	-.0226	-.0620	.0630	.3334	-.1503
300.000	.0312	-.0097	-.0415	.0184	.0960	-.1490
330.000	.0000	-.0412	-.0220	-.0214	.0429	-.1498

ARC97-019 IABI LVAP(ALL HL SEALED) EXTERNAL TANK (RETT36)

ALPHAT(5) = 1.831 BETAT (2) = -2.171

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.6522	.2801	.4272	.9833	.6782	.2666	.0238	-.0209	-.0723	-.0780	.1475	-.0446	.0584	.0867	.0383
30.000		.3533	.4028	.9867	.6937	.2871	.0000	-.0119	-.0668	-.0640	.1657	.0861	.0013	.0105	-.0155
60.000		.3730	.3991	.9806	.6956	.2896	.0329	-.0109	-.0617	-.0617	.1815	.5264	-.1139	-.1316	-.1072
90.000		.3704	.3910	.9678	.6814	.2733	.0260	-.0218	-.0697	-.0695	.4777	.4020	-.2923	-.1502	.0162
120.000		.3698	.3985	.9027	.0000	.2451	.0039	-.0424	-.0851	-.0832	.1311	.3020	-.1278	-.1383	.0313
135.000			.3868	.8734	.6255	.0000	-.0013	.0000	-.0934	-.0930	.1220	.0613	.0390	.0417	.0111
147.000		.3682	.3875	.8545	.6146	.0000	-.0080	-.0572	-.1021	-.0976	.1136	.1126	.1810	.2257	.0374
162.000			.3933	.8285	.0000	.0000	-.0209	-.0572	-.1075	-.1074	.0000	.1191	.2543	.1263	.0095
180.000	1.6522	.3536	.3966	.8018	.0000	.1862	-.0363	-.0611	-.1098	-.1129	.0919	.1126	.2549	.3914	.0608
198.000			.4066	.7797	.0000	.2336	-.0353	-.0694	-.1110	-.1155	.0609	.0713	.2321	.0028	.2171
213.000		.3343	.4298	.7149	.0000	.0000	-.1021	-.0495	-.1168	-.1227	-.0039	.1062	.1970	.1491	.1313
225.000			.4486	.7731	.6049	.0000	-.0202	-.0835	-.1106	-.1025	.0369	.0797	.0494	.1233	.0018
240.000		.3491	.3988	.7589	.6320	.1818	.0000	-.0749	-.1253	-.1175	.0026	.2397	-.0914	-.1200	.0210
270.000		.3375	.4138	.8125	.5900	.1827	-.0305	-.0729	-.1198	-.1142	.3041	.5323	-.2853	-.1472	.0127
300.000		.3336	.4102	.8503	.6081	.2330	-.0180	-.0579	-.1067	-.1008	.1175	.2575	.0041	-.1257	-.1245
330.000		.2840	.4346	.9210	.6427	.0000	.0064	-.0390	-.0927	-.0905	.1213	.0000		.0201	-.0004

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0491	-.0098	-.0059	-.0088	-.1349
30.000	-.0436	.0000	-.0120	-.0047	.0496	-.1359
60.000	.0383	.0230	-.0021	-.0111	.1300	-.1404
90.000	.0127	-.0339	-.0290	-.0287	.5281	-.1553
120.000	.0079	.0182	-.0024	.0463	.3448	-.1394
135.000	.0086	-.0249	.0000	.1864	.3519	
147.000	.0313	-.0435	-.0114	.1489	.4207	-.1789
162.000	.0137	-.0788	-.0229	.0668	.4568	
180.000	-.0583	-.1142	.0101	.1405	.4526	-.1725
198.000	-.0456	-.0310	-.0066	.1017	.3222	
213.000	-.1448	-.1081	-.0101	.1059	.1371	.0000
225.000	-.0212	-.0300	-.0309	.1371	.1992	
240.000	-.0017	.0000	-.0434	.1120	.2289	-.1398
270.000	.0153	-.0233	-.0460	.1022	.4784	-.1411
300.000	.0441	.0188	-.0181	.0017	.1633	-.1420
330.000	.0000	-.0200	-.0156	-.0134	.0454	-.1401

ARC87-018 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(5) = 1.650 BETAT (3) = 2.208

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2884	.3821	.3382	.3804	.4445	.4887
PHI															
.000	1.6580	.2583	.4585	.9689	.8879	.2788	.0308	-.0186	-.0713	-.0787	.1538	-.0484	.0867	.0812	.0384
30.000		.2717	.4423	.9214	.8572	.2586	.0000	-.0388	-.0841	-.0882	.1306	.0588	.0012	.0148	.0021
60.000		.3485	.3994	.8559	.8175	.2263	-.0062	-.0548	-.1030	-.1005	.1218	.2986	-.0986	-.1324	-.1235
90.000		.3659	.3978	.8093	.5978	.1984	-.0284	-.0731	-.1136	-.1113	.3729	.4375	-.2856	-.1337	-.0004
120.000		.3730	.3987	.7738	.0000	.1808	-.0323	-.0721	-.1187	-.1217	.0821	.2820	-.1057	-.1495	.0303
135.000			.4033	.7751	.5855	.0000	-.0294	.0000	-.1219	-.1175	.0802	.0635	.0932	.1289	-.0431
147.000		.3791	.4023	.7787	.5803	.0000	-.0400	-.0740	-.1139	-.1211	.0811	.1167	.1913	.2115	-.0101
162.000			.4008	.7947	.0000	.0000	-.0272	-.0781	-.1178	-.1132	.0000	.1006	.1992	.0509	.0515
180.000	1.6580	.3530	.4057	.8142	.0000	.1889	-.0166	-.0601	-.1142	-.1142	.0844	.1088	.3064	.3982	.0239
198.000			.4093	.8494	.0000	.2547	-.0034	-.0830	-.0928	-.1034	.0918	.1051	.2269	.0519	.1579
213.000		.3514	.4226	.8538	.0000	.0000	-.0904	-.8223	-.1008	-.1021	.0306	.1145	.1938	.1934	.1415
225.000			.4797	.9088	.7621	.0000	-.0005	-.0467	-.0806	-.0747	.1015	.0664	-.0057	.0877	.0441
240.000		.3707	.4298	.9433	.7234	.2403	.0000	-.0303	-.0959	-.0829	.1387	.2955	-.1154	-.1373	.0588
270.000		.3759	.4288	.9895	.6850	.2599	.0238	-.0252	-.0777	-.0754	.3973	.5747	-.2888	-.1568	.0239
300.000		.3852	.4279	1.0040	.7043	.2992	.0361	-.0092	-.0676	-.0672	.1737	.4337	-.0173	-.1235	-.1181
330.000		.3572	.4337	1.0034	.7060	.0000	.0371	-.0092	-.0676	-.0629	.1849	.0000		.0095	-.0217

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0534	-.0118	-.0087	-.0160	-.1415
30.000	-.0582	.0000	-.0131	-.0125	.0356	-.1402
60.000	.0331	.0183	-.0240	.0019	.1708	-.1376
90.000	.0087	-.0009	-.0449	.1223	.5619	-.1483
120.000	-.0318	-.0240	-.0456	.1230	.1975	-.1376
135.000	-.0223	-.0833	.0000	.1733	.2589	
147.000	-.0239	-.0867	.0107	.1602	.2266	-.1681
162.000	-.0566	-.1015	-.0106	.1605	.2243	
180.000	-.0505	-.0977	-.0529	.1457	.3137	-.1848
198.000	-.1011	-.1468	-.0032	.1233	.3141	
213.000	-.0295	-.0279	.0048	.1395	.2214	.0000
225.000	.0228	-.0167	-.0353	.1482	.2573	
240.000	.0276	.0000	-.0036	.0927	.1851	-.1574
270.000	.0116	-.0401	-.0308	-.0137	.5748	-.1480
300.000	.0404	.0203	-.0004	-.0065	.1483	-.1474
330.000	.0000	.0210	-.0087	-.0068	.0656	-.1548

ARC97-019 IASI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(5) = 1.870 BETAT (4) = 8.506

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2884	.3821	.3362	.3904	.4445	.4987
PHI															
.000	1.8885	.2138	.4781	.8397	.8714	.2867	.0234	-.0252	-.0772	-.0811	.1351	-.0804	.0452	.0308	-.0072
30.000		.2018	.3907	.8114	.5830	.1987	.0000	-.0708	-.1128	-.1137	.0700	.0419	-.0077	.0154	-.0171
60.000		.2789	.3823	.7188	.5089	.1449	-.0553	-.1003	-.1400	-.1381	.0810	.1144	-.0835	-.1120	-.0475
90.000		.3111	.3830	.8294	.4862	.1250	-.0804	-.1183	-.1537	-.1189	.2858	.5148	-.1900	-.1422	-.0283
120.000		.3069	.3839	.8023	.0000	.1090	-.0769	-.1157	-.1534	-.1495	.0377	.2252	-.0639	-.0042	-.0950
135.000			.3833	.6509	.4837	.0000	-.0807	.0000	-.1493	-.1479	.0338	.0439	.0397	.0827	-.0478
147.000		.3298	.3601	.6938	.5030	.0000	-.0660	-.1087	-.1473	-.1420	.0344	.0723	.1604	.1625	-.0280
162.000			.3585	.7443	.0000	.0000	-.0596	-.0894	-.1336	-.1326	.0000	.0842	.1541	-.0373	-.0536
180.000	1.8885	.3307	.3604	.8058	.0000	.1829	-.0274	-.0772	-.1150	-.1146	.0717	.0884	.2809	.3105	-.0706
198.000			.3485	.8820	.0000	.2368	.0287	-.0708	-.0758	-.0768	.1053	.1075	.2359	.0598	.2562
213.000		.3794	.3575	.8472	.0000	.0000	-.1247	-.0884	-.1105	-.1173	.0587	.1000	.1847	.1528	.1771
225.000			.4646	.9599	.8179	.0000	.0220	-.0052	-.0501	-.0488	.1639	.0842	-.0592	-.0446	.0951
240.000		.4377	.4415	1.0189	.8444	.3265	.0000	.0195	-.0501	-.0429	.1940	.2965	-.1113	-.1369	-.0107
270.000		.4603	.4493	1.0925	.7976	.3527	.0907	.0364	-.0220	-.0175	.5226	.6365	-.2838	-.1555	.0329
300.000		.4561	.4565	1.0970	.8034	.3856	.0987	.0470	-.0168	-.0181	.2507	.5210	-.0270	-.1270	-.0885
330.000		.4177	.4513	1.0441	.7558	.0000	.0685	.0179	-.0416	-.0404	.1998	.0000		-.0408	-.0729

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0457	-.0303	-.0356	-.0416	-.1404
30.000	-.0675	.0000	-.0284	-.0311	.0337	-.1371
60.000	.0203	-.0114	-.0515	-.0119	.1191	-.1504
90.000	.0277	-.0091	-.0544	.0898	.4419	-.1388
120.000	-.0329	-.0496	-.0612	.1307	.2055	-.1559
135.000	-.0755	-.1042	.0000	.1336	.2127	
147.000	-.1129	-.1010	-.0628	.1602	.1928	-.1443
162.000	-.1347	-.1627	-.1118	.1393	.2326	
180.000	-.1418	-.1190	-.1141	.0810	.3278	-.1698
198.000	-.1773	-.2009	-.0077	-.0138	.6680	
213.000	.0842	-.0284	.0314	.1182	.2727	.0000
225.000	.0818	.0295	.0088	.1945	.3053	
240.000	.1019	.0000	.0847	.1090	.4506	-.1352
270.000	.0533	-.0242	-.0494	-.0874	.5742	-.1438
300.000	.0299	.0172	.0112	.0128	.1371	-.1407
330.000	.0000	.0118	-.0087	-.0185	.0483	-.1443

ARC87-019 IA81 LVAP(ALL HL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(8) = 4.000 BETAT (1) = -6.819

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2881	.3382	.3804	.4446	.4987
PHI															
.000	1.0670	.2381	.4948	1.0042	.7290	.3150	.0505	.0033	-.0541	-.0583	.1712	-.0294	.0333	.0571	.0238
30.000		.4372	.4317	1.0084	.7957	.3819	.0000	.0439	-.0180	-.0188	.2384	.1227	.0436	-.0077	-.0298
60.000		.4575	.4078	1.1197	.8353	.4042	.1080	.0577	-.0059	-.0079	.2667	.8299	-.0607	-.0853	-.0699
90.000		.4288	.3894	1.0733	.7957	.3684	.0920	.0358	-.0244	-.0258	.8506	.5004	-.2931	-.1514	.0288
120.000		.3887	.3343	.9858	.0000	.2872	.0455	-.0057	-.0824	-.0848	.1450	.2145	-.1588	-.1520	-.0155
135.000			.3121	.9045	.8479	.0000	.0119	.0006	-.0834	-.0857	.1253	.0832	-.0907	-.0943	.1277
147.000		.3788	.3218	.8618	.8102	.0000	-.0118	-.0512	-.0983	-.1013	.0950	.0520	.0339	.2227	.0686
162.000			.3491	.8068	.0000	.0000	-.0339	-.0787	-.1235	-.1202	.0000	.0922	.1827	.1771	.0198
180.000	1.0670	.3849	.3717	.7311	.0000	.1638	-.0550	-.0982	-.1366	-.1354	.0391	.0771	.3154	.3376	-.0012
198.000			.3867	.8681	.0000	.1852	-.0797	-.1020	-.1449	-.1448	.0278	.0581	.1881	-.0754	.1670
213.000		.3469	.3948	.4584	.0000	.0000	-.1373	-.0898	-.1497	-.1442	-.0188	.0465	.1476	.0841	.0650
225.000			.3883	.5864	.4387	.0000	-.0662	-.1260	-.1459	-.1381	.0223	.0687	.0652	.0545	-.0651
240.000		.3102	.3575	.5384	.4827	.1067	.0000	-.1174	-.1548	-.1498	.0410	.1711	-.1129	-.1232	.0065
270.000		.2831	.3488	.6434	.4795	.1083	-.0745	-.1116	-.1540	-.1325	.1805	.4495	-.3076	-.1405	.0449
300.000		.2153	.3376	.7499	.5226	.1680	-.0515	-.0883	-.1351	-.1335	.0723	.0863	.0934	-.0692	-.0731
330.000		.1506	.4292	.8832	.6172	.0000	-.0054	-.0458	-.0987	-.0975	.0982	.0000		.0436	.0169

X/LT	.9528	.6340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0272	-.0141	-.0128	-.0220	-.1323
30.000	-.0134	.0000	.0212	.0051	.0544	-.1343
60.000	.0819	.0606	.0430	.0329	.1358	-.1307
90.000	.1208	.0580	.0414	.0684	.3298	-.1372
120.000	.0871	.0680	.0551	.1521	.4664	-.1401
135.000	.0127	.0179	.0000	.3285	.5015	
147.000	.0683	.0321	.0394	.1868	.5420	-.1487
162.000	-.0383	-.0205	-.0098	.1537	.6796	
180.000	-.0986	-.0410	-.0073	.1884	.5086	-.1478
198.000	-.0871	-.0372	.0086	.1098	.4308	
213.000	-.1888	-.1247	.0035	.1003	.0177	.0000
225.000	-.0431	-.0503	.0086	.1178	.2025	
240.000	-.0112	.0000	.0055	.1195	.1527	-.1481
270.000	.0851	.0070	-.0584	.1042	.3790	-.1510
300.000	.0421	.0035	-.0409	.0105	.1853	-.1436
330.000	.0000	-.0288	-.0108	-.0315	.0238	-.1404

ARC87-018 IAS1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(8) = 4.000 BETAT (8) = -4.371

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1284	.1944	.2108	.2323	.2884	.2821	.3382	.3804	.4446	.4887
PHI															
.000	1.0606	.2482	.4820	1.0093	.7307	.3175	.0523	.0043	-.0493	-.0623	.1874	-.0271	.0453	.0861	.0484
30.000		.4005	.4173	1.0638	.7884	.3594	.0000	.0267	-.0301	-.0338	.2190	.1071	.0444	.0258	-.0082
60.000		.4427	.3854	1.0674	.7768	.3574	.0785	.0242	-.0330	-.0344	.2274	.5843	-.0625	-.0841	-.0791
90.000		.4286	.3610	1.0174	.7340	.3175	.0537	.0005	-.0518	-.0503	.4936	.4620	-.3012	-.1592	.0222
120.000		.4054	.3626	.9226	.0000	.2524	.0136	-.0348	-.0870	-.0861	.1171	.2191	-.1609	-.1518	-.0261
135.000			.3703	.8752	.6152	.0000	-.0123	.0000	-.0998	-.0975	.1032	.0431	-.0557	-.0816	.0858
147.000		.3883	.3738	.8359	.5901	.0000	-.0216	-.0614	-.1094	-.1134	.0845	.0765	.0856	.2179	.0407
162.000			.3776	.7801	.0000	.0000	-.0438	-.0819	-.1209	-.1238	.0000	.0939	.1868	.1538	.0200
180.000	1.0606	.3639	.3750	.7298	.0000	.1618	-.0550	-.0902	-.1295	-.1326	.0503	.0849	.2638	.3530	.0257
198.000			.3711	.6821	.0000	.1845	-.0668	-.0940	-.1320	-.1359	.0352	.0653	.1894	-.0178	.2111
213.000		.3353	.3883	.5503	.0000	.0000	-.1283	-.0761	-.1394	-.1450	-.0300	.0672	.1689	.1205	.1126
225.000			.4035	.6130	.4829	.0000	-.0508	-.1074	-.1307	-.1255	.0061	.0765	.0313	.0858	-.0433
240.000		.3111	.3730	.6078	.5357	.1350	.0000	-.1036	-.1458	-.1398	.0452	.1940	-.1185	-.1517	.0190
270.000		.3131	.3769	.7256	.5270	.1522	-.0543	-.0937	-.1404	-.1339	.2313	.4884	-.3073	-.1584	.0305
300.000		.2899	.3847	.8077	.5721	.2078	-.0290	-.0665	-.1186	-.1170	.0977	.1438	.0813	-.0791	-.0922
330.000		.2037	.4003	.9168	.6533	.0000	.0158	-.0279	-.0855	-.0832	.1261	.0000		.0414	.0267

X/LT	.8528	.8340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0215	-.0089	.0004	-.0182	-.1334
30.000	-.0107	.0000	.0130	.0071	.0833	-.1311
60.000	.0538	.0944	.0325	.0144	.1290	-.1278
90.000	.1048	.0480	.0357	.0388	.3480	-.1389
120.000	.0582	.0495	.0232	.0994	.4407	-.1418
135.000	-.0209	-.0043	.0000	.3207	.4455	
147.000	.0353	.0146	.0146	.2137	.4539	-.1708
162.000	.0002	-.0156	-.0044	.2287	.5805	
180.000	-.0694	-.0595	.0246	.2565	.5301	-.1663
198.000	-.0417	-.0175	.0119	.1468	.4417	
213.000	-.1818	-.1187	.0039	.1355	.1088	.0000
225.000	-.0423	-.0412	.0042	.1554	.2237	
240.000	-.0069	.0000	-.0201	.1495	.1878	-.1450
270.000	.0813	.0187	-.0538	.1231	.3490	-.1482
300.000	.0519	.0290	-.0261	.0229	.1547	-.1450
330.000	.0000	-.0245	-.0038	-.0214	.0517	-.1395

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(8) = 4.000 BETAT (3) = .000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0400	.0844	.1294	.1944	.2108	.2323	.2884	.2821	.3382	.3884	.4446	.4987
PHI															
.000	1.8575	.2073	.5189	1.0095	.7317	.3207	.0570	.0000	-.0478	-.0488	.1852	-.0227	.0858	.1135	.0732
30.000		.2044	.5530	.9847	.7191	.3133	.0000	.0037	-.0533	-.0533	.1887	.0807	.0458	.0329	.0233
60.000		.3079	.4028	.9412	.6758	.2748	.0388	-.0148	-.0855	-.0702	.1880	.3620	-.0533	-.0890	-.0972
90.000		.3555	.3758	.8680	.6239	.2308	.0034	-.0419	-.0888	-.0898	.4125	.3951	-.3032	-.1899	.0080
120.000		.3588	.3800	.7860	.0000	.1914	-.0265	-.0882	-.1116	-.1116	.0788	.2171	-.1535	-.1805	.0160
135.000			.3826	.7623	.5507	.0000	-.0329	.0000	-.1173	-.1201	.0756	.0461	.0281	-.0091	-.0406
147.000		.3423	.3816	.7477	.5510	.0000	-.0415	-.0849	-.1237	-.1194	.0714	.1025	.1572	.1501	.0105
162.000			.3929	.7308	.0000	.0000	-.0512	-.0863	-.1285	-.1240	.0000	.0822	.1841	.0618	.0304
180.000	1.8575	.3423	.3838	.7070	.0000	.1437	-.0505	-.0808	-.1311	-.1278	.0688	.0909	.2223	.2673	.0428
198.000			.3854	.7220	.0000	.2020	-.0473	-.0858	-.1196	-.1286	.0516	.0799	.2037	.0086	.1957
213.000		.3417	.3897	.7126	.0000	.0000	-.1140	-.0572	-.1266	-.1272	-.0078	.1031	.1649	.1440	.0978
225.000			.4326	.7623	.8607	.0000	-.0380	-.0818	-.1100	-.1012	.0607	.0510	-.0133	.0323	.0128
240.000		.3559	.4095	.8056	.6017	.1956	.0000	-.0674	-.1220	-.1110	.0904	.2171	-.1417	-.1769	.0543
270.000		.3639	.4137	.8985	.6175	.2167	-.0027	-.0485	-.1022	-.0904	.3394	.5471	-.2771	-.1663	.0150
300.000		.3214	.4329	.9533	.6694	.2807	.0213	-.0258	-.0807	-.0738	.1645	.3214	.0496	-.0787	-.1020
330.000		.2257	.5158	.9975	.7138	.0000	.0486	.0014	-.0582	-.0557	.1777	.0000		.0323	.0215

X/LT	.9528	.8340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0246	.0041	.0098	-.0022	-.1379
30.000	-.0282	.0000	.0048	.0018	.0421	-.1382
60.000	.0423	.0483	.0025	-.0017	.1505	-.1480
90.000	.0813	.0481	.0041	.0088	.3823	-.1547
120.000	-.0031	-.0029	-.0244	.0872	.3239	-.1385
135.000	.0084	-.0459	.0000	.2836	.3106	
147.000	-.0214	-.0587	.0298	.2567	.2983	-.1886
162.000	-.0880	-.0787	.0277	.2302	.2838	
180.000	-.0881	-.1116	-.0001	.2196	.2780	-.1615
198.000	-.0342	-.0985	.0297	.1950	.2384	
213.000	-.1467	-.0552	.0143	.2082	.2025	.0000
225.000	-.0156	-.0273	-.0116	.1921	.2387	
240.000	.0279	.0000	-.0205	.1298	.2780	-.1481
270.000	.0884	.0388	-.0884	.0841	.3882	-.1418
300.000	.0498	.0528	.0841	.0098	.1514	-.1418
330.000	.0000	-.0058	.0031	-.0009	.0542	-.1427

ARC97-019 (ASI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(6) = 4.105 BETAT (4) = 4.387

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1284	.1944	.2184	.2323	.2684	.2821	.3382	.3604	.4445	.4987
PHI															
.000	1.8715	.2750	.5183	1.0187	.9087	.3289	.0578	.0080	-.0484	-.0520	.1941	-.0290	.0887	.0827	.0448
30.000		.1824	.4703	.9158	.8885	.2988	.0000	-.0327	-.0821	-.0815	.1348	.0854	.0290	.0430	.0143
60.000		.2400	.3848	.8332	.9831	.1989	-.0239	-.0708	-.1121	-.1188	.1073	.1581	-.0170	-.0881	-.0578
90.000		.3153	.3703	.7356	.5272	.1574	-.0588	-.0988	-.1399	-.1135	.3080	.4632	-.2931	-.1825	.0101
120.000		.3250	.3775	.6818	.5112	.1308	-.0708	-.1066	-.1483	-.1486	.0562	.2122	-.1360	-.0767	-.0626
135.000			.3726	.6289	.5092	.1227	-.0692	-.1102	-.1470	-.1459	.0477	.0396	.1105	.0934	-.0178
147.000		.3228	.3703	.6394	.5187	.1301	-.0734	-.1043	-.1454	-.1482	.0376	.0740	.1568	.1653	- 0246
162.000			.3738	.6903	.5331	.1525	-.0676	-.1071	-.1422	-.1449	.0382	.0678	.1576	-.0234	.0167
180.000	1.8715	.3364	.3801	.7284	.6257	.1308	-.0451	-.0874	-.1350	-.1373	.0477	.0926	.2736	.3284	-.0136
198.000			.3742	.7976	.4955	.2021	-.0067	-.0958	-.1055	-.1148	.0644	.0965	.2323	.1041	.1539
213.000		.3553	.3798	.7771	.0000	.0241	-.1418	-.0448	-.1311	-.1390	.0160	.0768	.1715	.1425	.1351
225.000			.4578	.8749	.7572	.2660	-.0171	-.0500	-.0887	-.0887	.1057	.0430	-.0771	-.0704	.0702
240.000		.3801	.4251	.9355	.7003	.2709	.0063	-.0254	-.0907	-.0871	.1289	.2298	-.1447	-.1737	-.0155
270.000		.3977	.4483	1.0274	.7395	.3095	.0574	.0012	-.0613	-.0524	.4421	.6060	-.2684	-.1681	.0179
300.000		.4176	.4710	1.0748	.7868	.3668	.0848	.0291	-.0339	-.0319	.2311	.5010	.0316	-.0863	-.1003
330.000		.3892	.4928	1.0778	.7935	.0000	.0851	.0334	-.0322	-.0276	.2262	.0000		.0224	-.0131

X/LT	.5628	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0247	-.0044	.0079	-.0140	-.1418
30.000	-.0354	.0000	-.0021	-.0135	.0326	-.1355
60.000	.0385	.0245	-.0177	-.0005	.1552	-.1588
90.000	.0870	.0392	-.0350	.1376	.3482	-.1421
120.000	-.0325	-.0148	-.0184	.1755	.2249	-.1739
.35.000	-.0528	-.0844	-.0015	.1917	.2639	
147.000	-.0701	-.0795	.0219	.1992	.2282	-.1498
162.000	-.0840	-.1182	-.0099	.1950	.2537	
180.000	-.0947	-.1163	-.0907	.1947	.3587	-.1683
198.000	-.1375	-.1384	-.0015	.1483	.5330	
213.000	.0015	-.0184	.0241	.1554	.2910	.0000
225.000	.0382	.0083	-.0197	.1866	.3175	
240.000	.0498	.0174	.0387	.1304	.3623	-.1437
270.000	.0952	.0418	.0387	.0709	.3339	-.1418
300.000	.0486	.0434	.0322	.0197	.1307	-.1414
330.000	.0000	.0330	.0186	.0088	.0731	-.1490

ARC87-019 1A81 LVAP(ALUM SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(8) = 9.114 BETAT (5) = 8.484

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2884	.2821	.3389	.3804	.4445	.4987
PHI															
.000	1.0000	.2291	.5188	1.0000	.7737	.3108	.0518	.0018	-.0048	-.0539	.1888	-.0339	.0585	.0559	.0232
30.000		.1403	.4454	.8897	.6218	.2319	.0000	-.0484	-.0883	-.0981	.1031	.0553	.0226	.0481	.0098
60.000		.2158	.3178	.7488	.5187	.1650	-.0520	-.0883	-.1345	-.1338	.0808	.1027	.0059	-.0795	-.0418
90.000		.2852	.3514	.6511	.4730	.1229	-.0793	-.1166	-.1540	-.1688	.2488	.4813	-.2965	-.1695	.0420
120.000		.2990	.3498	.5488	.4573	.1074	-.0838	-.1195	-.1595	-.1582	.0373	.2166	-.1177	-.0849	-.0849
135.000			.3524	.5857	.4550	.0971	-.0913	-.1260	-.1553	-.1562	.0223	.0574	.0760	.0711	-.0565
147.000		.3181	.3517	.6140	.4700	.1171	-.0874	-.1205	-.1591	-.1509	.0301	.0885	.1473	.1383	-.0306
162.000			.3484	.6856	.5001	.1281	-.0819	-.1118	-.1498	-.1506	.0138	.0649	.1461	-.0419	-.0354
180.000	1.0000	.3315	.3438	.7320	.5025	.1365	-.0533	-.0960	-.1365	-.1404	.0384	.0838	.2663	.2932	-.0821
190.000			.3330	.8068	.4749	.1928	-.0055	-.0851	-.1044	-.1021	.0664	.0783	.1812	.0383	.2752
213.000		.3888	.3415	.7639	.0000	.0049	-.1446	-.0430	-.1316	-.1437	.0233	.0818	.1348	.1150	.1527
225.000			.4135	.9052	.8070	.2710	.0010	-.0398	-.0750	-.0823	.1315	.0525	-.0984	-.1080	.0708
240.000		.4271	.4211	.8718	.7293	.3078	.0302	-.0044	-.0571	-.0885	.1586	.2231	-.1448	-.1653	-.0328
270.000		.4632	.4195	1.0760	.7848	.3580	.0890	.0315	-.0308	-.0209	.5093	.8320	-.2575	-.1598	.0174
300.000		.4824	.4385	1.1191	.8279	.4032	.1143	.0561	-.0048	-.0045	.2757	.5815	.0283	-.0873	-.0915
330.000		.4434	.4598	1.0879	.8080	.0000	.1032	.0467	-.0209	-.0146	.2427	.0000		.0041	-.0336

X/LT	.5528	.6340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0287	-.0140	-.0116	-.0287	-.1442
30.000	-.3420	.0000	-.0182	-.0352	.0122	-.1373
60.000	.0424	.0052	-.0378	-.0263	.1670	-.1501
90.000	.0815	.0172	-.0484	.1299	.3981	-.1488
120.000	-.0338	-.0400	-.0298	.1619	.2122	-.1658
135.000	-.0282	-.0852	-.0387	.1590	.2502	
147.000	-.0001	-.0867	-.0270	.1738	.2149	-.1517
162.000	-.1167	-.1601	-.0711	.1732	.2720	
180.000	-.1471	-.0835	-.1158	.1283	.3713	-.1887
198.000	-.1784	-.1842	.0011	.0791	.0823	
213.000	.0000	-.0188	.0383	.1538	.3293	.0060
225.000	.0405	.0383	.0127	.2195	.3515	
240.000	.0788	.0382	.0871	.1951	.3087	-.1455
270.000	.1434	.0942	.0488	.0871	.3329	-.1449
300.000	.0478	.0471	.0435	.0448	.1408	-.1462
330.000	.0000	.0312	.0240	.0082	.0056	-.1495

/RC97-019 IAB1 LVAP(ALHL SEALED) EXTERNAL TANK (RETT3D)

ALPHAT(7) = 8.333 BETAT (1) = -4.337

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.0075	.2401	.4985	1.0843	.9215	.3894	.0827	.0332	-.0267	-.0283	.2325	-.0034	.0584	.1010	.0735
30.000		.3573	.5057	1.1074	.8304	.4053	.0000	.0534	-.0078	-.0101	.2583	.1334	.0825	.0487	.0236
60.000		.4227	.4035	1.0847	.3023	.37 2	.0986	.0403	-.0224	-.0256	.2475	.8331	-.0248	-.0430	-.0443
90.000		.4035	.3371	.9959	.7253		.0468	-.0039	-.0591	-.0563	.4951	.4580	-.3029	-.1920	-.0027
120.000		.3784	.3123	.8685	.8198		052	-.0498	-.1016	-.1028	.0807	.1379	-.2064	-.1635	-.0831
135.000			.3298	.8138	.5663		58	-.0787	-.1233	-.1218	.0683	.0249	-.1043	-.1377	.0898
147.000		.3708	.3478	.7774	.5382			-.0888	-.1308	-.1343	.0480	.0590	.0336	.1777	.0358
162.000			.3879	.7159	.5017	.	57	-.1081	-.1457	-.1486	.0284	.0789	.1407	.1789	.0022
180.000	1.0075	.3501	.3688	.6848	.4987	.1245	420	-.1130	-.1519	-.1535	.0280	.0841	.2593	.3068	.0012
198.000			.3875	.6098	.5823	.1507	-.0817	-.1191	-.1486	-.1489	.0088	.0583	.1860	-.0349	.1870
213.000		.3284	.3833	.5300	.0000	-.0117	-.1445	-.0919	-.1555	-.1641	-.0446	.0711	.1560	.1095	.0748
225.000			.3984	.5287	.4638	.1491	-.0716	-.1230	-. 486	-.1438	.0012	.0391	-.0118	.0304	-.0569
240.000		.3224	.3639	.6002	.5180	.1080	-.0791	-.1152	-.1634	-.1535	.0212	.1552	-.1653	-.1977	.0041
270.000		.3198	.3568	.7370	.5079	.1419	-.0579	-.0997	-.1469	-.1357	.2119	.4577	-.2931	-.1938	.0193
300.000		.2321	.3524	.8330	.5878	.2192	-.0208	-.0627	-.1172	-.1162	.1020	.1271	.1345	-.0397	-.0504
330.000		.1918	.4218	.9839	.6950	.0000	.0361	-.0104	-.0715	-.0662	.1576	.0000		.0784	.0505

X/LT	.6528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	.0084	.0084	.0155	.0013	-.1376
30.000	.0207	.0000	.0328	.0262	.0357	-.1377
60.000	.0417	.0698	.0458	.0285	.2262	-.1285
90.000	.0936	.0624	.0523	.1304	.4746	-.1347
120.000	.0453	.0091	.0179	.2017	.4253	-.1344
135.000	- 0357	.0185	.0094	.3302	.5462	
147.000	.0174	.0286	.0278	.2517	.5978	-.1586
162.000	-.0293	-.0338	.0106	.2884	.5945	
180.000	-.0778	-.0754	.0415	.3049	.4727	-.1577
198.000	-.0528	-.0042	.0301	.2001	.4090	
213.000	-.1933	-.1186	.0295	.1810	.1432	.0000
225.000	-.0588	-.0413	.0243	.2100	.2424	
240.000	-.0134	-.0341	.0032	.1948	.2312	-.1410
270.000	.0985	.0292	-.0656	.1515	.4737	-.1442
300.000	.0333	.0416	-.0153	.0119	.1935	-.1429
330.000	.0000	-.0127	.0084	-.0152	.0403	-.1436

ARC87-818 (AS) LVAP(ALUM. SEALED) EXTERNAL TANK (RETT28)

ALPHAT(7) = 8.341 BETAT (2) = -2.183

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1284	.1944	.2168	.2323	.2584	.2881	.3382	.3804	.4448	.4887
PHI															
.000	1.0578	.2234	.5283	1.0711	.8548	.3878	.0958	.0332	-.0238	-.0283	.2383	-.0014	.0673	.1272	.0881
30.000		.2067	.5011	1.0678	.7944	.3780	.0060	.0384	-.0239	-.0163	.2458	.1198	.0852	.0839	.0412
60.000		.3188	.3877	1.0174	.7470	.3338	.0688	.0140	-.0414	-.0431	.2180	.5122	-.0204	-.0485	-.0525
90.000		.3677	.3283	.9288	.8859	.3847	.0178	-.0298	-.0784	-.0758	.4525	.4221	-.3085	-.2108	-.0185
120.000		.3755	.3508	.8185	.5777	.1899	-.0200	-.0706	-.1154	-.1168	.0884	.1422	-.2049	-.2027	-.0824
135.000			.3576	.7988	.5382	.1691	-.0501	-.0872	-.1270	-.1284	.0520	.0239	-.0719	-.1184	.0240
147.000		.3550	.3563	.7249	.5172	.1481	-.0583	-.0993	-.1410	-.1373	.0444	.0683	.0621	.1650	-.0071
162.000			.3567	.6844	.4970	.1298	-.0742	-.1068	-.1481	-.1453	.0349	.0581	.1832	.1295	-.0107
180.000	1.0579	.339	[illegible]20	.6320	.5352	.1075	-.0807	-.1098	-.1523	-.1508	.0416	.0757	.1975	.2470	.0351
198.000			379	.5731	.4450	.1542	-.0752	-.1147	-.1488	-.1522	.0313	.0741	.1747	-.0136	.1878
213.000		.3117	.3774	.5612	.0000	.0022	-.1393	-.0878	-.1507	-.1512	-.0341	.0748	.1328	.1009	.0662
225.000			.3992	.6128	.5777	.1717	-.0706	-.1154	-.1393	-.1294	.0153	.0376	-.0319	-.0126	-.0191
240.000		.3319	.3732	.6859	.5208	.1497	-.0693	-.1001	-.1506	-.1430	.0363	.1601	-.1778	-.2102	-.0104
270.000		.3329	.3869	.7988	.5512	.1308	-.0342	-.0771	-.1291	-.1235	.2573	.4928	-.2733	- 1884	-.0211
300.000		.2944	.3695	.8986	.6349	.2589	.0078	-.0372	-.0957	-.0937	.1345	.2175	.1243	-.0369	-.0606
330.000		.2038	.4420	1.0019	.7292	.0000	.0550	.0040	-.0544	-.0512	.1862	.0000		.0698	.0544

X/LT	.5528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	.0082	.0130	.0265	.0106	-.1327
30.000	.0188	.0000	.0237	.0252	.0241	-.1389
60.000	.0282	.0658	.0335	.0126	.2217	-.1311
90.000	.0926	.0550	.0247	.1298	.4807	-.1357
120.000	.0344	.0088	-.0010	.1879	.4073	-.1350
135.000	-.0219	-.0384	-.0179	.3027	.4549	
147.000	.0149	-.0192	.0237	.2534	.4778	-.1812
162.000	-.0210	-.0238	.0401	.2693	.5120	
180.000	-.0887	-.1084	.0456	.2372	.4941	-.1704
198.000	-.0524	-.0466	.0434	.1938	.3290	
213.000	-.1702	-.0999	.0483	.1905	.2114	.0000
225.000	-.0462	-.0328	.0103	.2432	.2484	
240.000	.0159	-.0179	-.0137	.2042	.2749	-.1350
270.000	.1072	.0514	-.0500	.1592	.4947	-.1383
300.000	.0114	.0802	.0022	-.0089	.1903	-.1373
330.000	.0000	-.0183	.0152	-.0026	.0388	-.1412

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(7) = 8.354 BETAT (3) = .019

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0194	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3804	.4445	.4987
PHI															
.000	1.6598	.1797	.6257	1.0698	.8185	.3881	.0904	.0388	-.0227	-.0213	.2450	.0058	.0854	.1386	.1018
30.000		.1808	.6286	1.0318	.7869	.3537	.0000	.0310	-.0308	-.0308	.2261	.0935	.0813	.0593	.0415
60.000		.2269	.4407	.9476	.6977	.2969	.0490	-.0005	-.0574	-.0628	.1836	.3406	-.0039	-.0479	-.0528
90.000		.3075	.3497	.8608	.6103	.2274	-.0028	-.0495	-.0959	-.0909	.3939	.3875	-.3137	-.2016	.0010
120.000		.3432	.3488	.7464	.5339	.1657	-.0447	-.0846	-.1296	-.1291	.0491	.1344	-.1998	-.2214	-.0635
135.000			.3530	.7053	.5029	.1502	-.0567	-.0937	-.1351	-.1377	.0448	.0257	-.0244	-.0667	-.0379
147.000		.3429	.3556	.6780	.4964	.1350	-.0609	-.1031	-.1435	-.1397	.0455	.0787	.1194	.1421	-.0249
162.000			.3645	.6405	.5039	.1269	-.0745	-.1069	-.1471	-.1440	.0435	.0758	.1421	.0531	1234
180.000	1.6598	.3208	.3655	.5892	.5264	.1111	-.0716	-.1060	-.1516	-.1463	.0451	.0768	.2162	.2139	0120
198.000			.3655	.6119	.4207	.1631	-.0651	-.1144	-.1409	-.1478	.0285	.0641	.2006	.0138	426
213.000		.3299	.3685	.6096	.0000	-.0011	-.1410	-.0838	-.1500	-.1486	-.0221	.0797	.1587	.1188	.0768
225.000			.4010	.6905	.6318	.1764	-.0674	-.1017	-.1295	-.1239	.0425	.0153	-.0687	-.0282	.0279
240.000		.3582	.3932	.7561	.5319	.1741	-.0518	-.0833	-.1331	-.1288	.0510	.1575	-..941	-.1957	-.0599
270.000		.3354	.3843	.8674	.6002	.2151	-.0086	-.0493	-.1051	-.1008	.3110	.5254	-.2506	-.1999	.0065
300.000		.2496	.4514	.9518	.6866	.2927	.0355	-.0150	-.0717	-.0688	.1729	.3071	.1119	-.0372	-.0635
330.000		.1684	.5941	1.0407	.7629	.0000	.0754	.0232	-.0381	-.0332	.2137	.0000		.0584	.0528

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	.0081	.0211	.0294	.0139	-.1295
30.000	.0089	.0000	.0230	.0184	.0393	-.1413
60.000	.0350	.0609	.0234	.0074	.2131	-.1347
90.000	.0764	.0532	.0035	.1605	.4533	-.1452
120.000	.0085	-.0075	-.0072	.1761	.3424	-.1367
135.000	-.0012	-.0491	.0204	.3489	.3766	
147.000	-.0332	-.0523	.0672	.3244	.3724	-.1743
162.000	-.0737	-.0688	.0365	.2856	.3348	
180.000	-.0827	-.1163	.0430	.2748	.2663	-.1641
198.000	-.0481	-.1247	.0673	.2535	.2385	
213.000	-.1590	-.0575	.0449	.2489	.2283	.0000
225.000	-.0336	-.0325	.0126	.2633	.2666	
240.000	.0369	-.0072	-.0088	.1850	.2772	-.1364
270.000	.1035	.0578	-.0250	.1477	.4771	-.1360
300.000	.0385	.0695	.0139	.0036	.2055	-.1347
330.000	.0000	-.0023	.0223	.0073	.0401	-.1416

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(7) = 8.382 BETAT (4) = 2.208

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1294	.1944	.2186	.2323	.2584	.2821	.3362	.3804	.4445	.4987
PHI															
.000	1.8628	.1901	.5838	1.0808	.6503	.3746	.0857	.0386	-.0206	-.0229	.8437	-.0019	.0611	.1245	.0930
30.000		.1845	.5431	.9883	.7437	.3352	.0000	.0123	-.0442	-.0483	.1884	.0703	.0080	.0709	.0471
60.000		.2051	.4109	.9000	.6527	.2591	.0152	-.0360	-.0879	-.0886	.1529	.2124	.0218	-.0485	-.0441
90.000		.2873	.3491	.8073	.5699	.1897	-.0351	-.0782	-.1215	-.0876	.3288	.3706	-.3137	-.1728	.0325
120.000		.3273	.3540	.8989	.5112	.1398	-.0672	-.1055	-.1451	-.1433	.0513	.1347	-.1875	-.2091	-.0318
135.000			.3572	.8577	.4918	.1267	-.0695	-.1090	-.1512	-.1518	.0334	.0288	.0400	.0025	-.0613
147.000		.3338	.3957	.8282	.4991	.1173	-.0778	-.1158	-.1509	-.1515	.0324	.0781	.1435	.1540	-.0571
162.000			.3878	.5812	.5060	.1348	-.0730	-.1102	-.1506	-.1498	.0389	.0758	.1198	.0219	-.0011
180.000	1.8628	.3140	.3872	.6045	.5611	.1060	-.0882	-.1088	-.1493	-.1493	.0285	.0442	.2692	.2851	-.0260
198.000			.3881	.8824	.4493	.1671	-.0490	-.1186	-.1312	-.1381	.0357	.0598	.2192	.0713	.1163
213.000		.3540	.3714	.8587	.0000	-.0038	-.1506	-.0743	-.1461	-.1529	-.0179	.0550	.1618	.1206	.0743
225.000			.4181	.7593	.6771	.1939	-.0558	-.0843	-.1198	-.1173	.0543	.0045	-.1040	-.0969	.0681
240.000		.3780	.4020	.8294	.5855	.2148	-.0331	-.0704	-.1206	-.1179	.0690	.1584	-.1952	-.2007	-.0665
270.000		.3849	.3951	.9445	.6857	.2588	.0207	-.0280	-.0866	-.0830	.3642	.5538	-.2367	-.2266	-.0027
300.000		.3351	.4523	1.0270	.7498	.3365	.0668	.0169	-.0477	-.0503	.2009	.4282	.0982	-.0390	-.0613
330.000		.2217	.6813	1.0778	.8021	.0000	.1009	.0473	-.0229	-.0199	.2352	.0000		.0477	.0348

X/LT	.5529	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	.0073	.0218	.0274	.0142	-.1327
30.000	.0002	.0000	.0173	.0100	.0409	-.1406
60.000	.0548	.0520	.0095	.0155	.1894	-.1373
90.000	.0427	.0530	-.0167	.1727	.4408	-.1507
120.000	-.0205	-.0203	.0047	.2141	.2832	-.1517
135.000	-.0198	-.0713	.0338	.2772	.3284	
147.000	-.0522	-.0703	.0550	.2748	.2997	-.1683
162.000	-.0838	-.1044	.0122	.2728	.2883	
180.000	-.0975	-.1235	.0015	.2632	.3208	-.1880
198.000	-.1286	-.1502	.0520	.2128	.4092	
213.000	-.0539	-.0109	.0229	.2196	.3218	.0000
225.000	-.0050	-.0034	-.0020	.2833	.3303	
240.000	.0306	-.0112	.0125	.1726	.3020	-.1415
270.000	.0856	.0582	.0848	.1472	.4972	-.1353
300.000	.0423	.0831	.0313	.0122	.2211	-.1353
330.000	.0000	.0198	.0310	.0201	.0317	-.1458

ARC97-019 IA81 LVAP(ALLML SEALED) EXTERNAL TANK (RETT36)

ALPHAT(7) = 6.358 BETAT (6) = 4.368

SECTION : 1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3804	.4445	.4887
PHI															
.000	1.8673	.2111	.5522	1.0744	.9315	.3710	.0927	.0412	-.0198	-.0208	.2409	-.0021	.0614	.1008	.0728
30.000		.1540	.5240	.9543	.7086	.3008	.0000	-.0083	-.0818	-.0846	.1810	.0661	.0549	.0722	.0431
60.000		.1848	.3500	.8251	.5920	.2163	-.0135	-.0804	-.1103	-.1123	.1206	.1326	.0438	-.0437	-.0218
90.000		.2744	.3332	.7365	.5063	.1498	-.0623	-.1018	-.1423	-.0646	.2905	.4034	-.3105	-.1420	-.0621
120.000		.3014	.3491	.6305	.4632	.1107	-.0883	-.1190	-.1555	-.1535	.0178	.1446	-.1802	-.1621	-.0802
135.000			.3585	.5807	.4567	.1004	-.0834	-.1206	-.1604	-.1585	.0217	.0325	.0575	.0508	-.0486
147.000		.3134	.3588	.5479	.4551	.1049	-.0878	-.1206	-.1581	-.1578	.0371	.0734	.1401	.1378	-.0302
162.000			.3622	.5587	.4727	.1191	-.0850	-.1239	-.1572	-.1545	.0178	.0650	.1287	-.0268	.0312
180.000	1.8673	.3322	.3582	.6358	.5597	.1017	-.0724	-.1174	-.1539	-.1532	.0227	.0689	.2394	.2524	-.0337
198.000			.3477	.7182	.4336	.1575	-.0358	-.1206	-.1268	-.1301	.0315	.0650	.1878	.0605	.1478
213.000		.3586	.3517	.6850	.0000	-.0274	-.1865	-.0770	-.1585	-.1811	-.0141	.0575	.1293	.0732	.1155
225.000			.4120	.8139	.7145	.2024	-.0351	-.0722	-.1107	-.1107	.0772	.0172	-.1222	-.1438	.0651
240.000		.4023	.4202	.8820	.6245	.2589	-.0060	-.0518	-.1038	-.0998	.0867	.1580	-.1943	-.1810	-.0618
270.000		.4373	.3996	1.0110	.7230	.3112	.0558	.0015	-.0613	-.0593	.4268	.5844	-.2293	-.2078	-.0215
300.000		.4179	.4458	1.0899	.8067	.3944	.1027	.0452	-.0208	-.0214	.2461	.5350	.0849	-.0399	-.0586
330.000		.3075	.6797	1.1134	.8355	.0000	.1228	.0645	-.0046	-.0008	.2634	.0000		.0477	.0220

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	.0072	.0139	.0227	.0041	-.1465
30.000	-.0012	.0000	.0087	-.0054	.0212	-.1504
60.000	.0072	.0397	.0016	-.0080	.1775	-.1471
90.000	.0501	.0373	-.0672	.1721	.5350	-.1520
120.000	-.0287	-.0133	.0035	.2145	.2460	-.1553
135.000	-.0300	-.0724	.0253	.2345	.2724	
147.000	-.0377	-.0668	.0434	.2423	.2444	-.1563
162.000	-.0877	-.1350	.0158	.2339	.2253	
180.000	-.0932	-.1074	.0078	.2248	.3736	-.1719
198.000	-.1407	-.1327	.0094	.1886	.5451	
213.000	-.0003	-.0085	.0373	.1944	.3690	.0000
225.000	.0072	.0178	-.0090	.2177	.3814	
240.000	.0262	.0133	.0408	.1850	.3703	-.1481
270.000	.0727	.0431	.0327	.1422	.5848	-.1412
300.000	.0291	.0574	.0482	.0311	.2424	-.1408
330.000	.0000	.0282	.0411	.0298	.0399	-.1520

ARC97-019 IABI LVAP(ALLHL SEALED) EXTERNAL TANK (RE?T37) (30 JAN 75)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 8.200 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = -4.000
RUDDER = .000 SPOBRK = .000

ALPHAT(1) = -7.024 BETAT (1) = -4.530

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/L1	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2584	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6941	.2202	.3060	.8441	.4909	.1230	-.0637	-.0973	-.1302	-.1327	.0081	-.0899	.0097	-.0003	-.0455
30.000		.2942	.2852	.7410	.5198	.1621	-.0303	-.0718	-.1105	-.1151	.0388	-.0201	.0121	-.1437	-.1517
60.000		.3050	.2467	.8868	.6193	.2431	.0173	-.0310	-.0751	-.0807	.0887	.0811	-.2133	-.2421	-.1470
90.000		.3277	.2825	1.0004	.7895	.3298	.0794	.0206	-.0307	-.0352	.4872	.5118	-.1952	-.1732	-.1079
120.000		.3706	.3535	1.0861	.8112	.3911	.1238	.0688	.0118	.0029	.2572	.4253	.0858	.0312	.0974
135.000			.3879	1.1180	.8260	.4109	.1367	.0825	.0170	.0114	.2802	.2472	.1398	.2884	.1868
147.000		.3958	.3713	1.1254	.8364	.4078	.1340	.0781	.0183	.0158	.2747	.1848	.2680	.3560	.2199
162.000			.3657	1.1098	.8217	.3988	.1210	.0784	.0150	.0043	.2660	.0342	.2984	.2546	.1381
180.000	1.6941	.3994	.3550	1.0634	.8822	.3668	.0992	.0460	.0063	-.0086	.2410	.0453	.2984	.6292	.1171
198.000			.3556	.9980	.8701	.3761	.0587	.0377	-.0311	-.0321	.1959	.1170	.2606	.0730	.2222
213.000		.3730	.3954	.6756	.0000	.0720	-.0621	.0273	-.0581	-.0311	.0732	.1006	.2372	.2148	.1621
225.000			.3887	.8637	.6001	.2721	.0437	-.0321	-.0671	-.0562	.1082	.1291	.1125	.1965	.0650
240.000		.3090	.2650	.8193	.6626	.2031	-.0132	-.0418	-.0950	- 0957	.0718	.1247	.1623	.1050	.0530
270.000		.2855	.2867	.7026	.5043	.1494	-.0482	-.0845	-.1249	-.1246	.1231	.5691	-.2414	-.1390	-.0729
300.000		.2664	.3031	.5715	.4505	.1084	-.0691	-.0992	-.1392	-.1348	.0109	.0865	-.1310	-.2248	-.1647
330.000		.2487	.2961	.5080	.4260	.0000	-.0712	-.1038	-.1423	-.1337	.0065	.0000		-.0265	-.0482

X/LT	.9528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0842	-.0795	-.0293	-.0285	-.1557
30.000	-.0582	-.0619	-.0648	-.0746	-.0798	-.1749
60.000	-.0802	-.1152	-.0310	-.0183	.1278	-.1638
90.000	.0187	-.0387	-.0514	.0037	.8111	-.1594
120.000	.1556	.1330	.0527	.0697	.2826	-.1598
135.000	.0870	.1002	.0416	.3144	.3430	
147.000	.1004	.1048	.1022	.1541	.3948	-.1904
162.000	.0880	.0048	.0787	.0334	.8185	
180.000	.0687	.0410	-.0143	-.0166	.5308	-.2002
198.000	.0810	.0152	.0287	.3310	.4421	
213.000	-.0918	-.0718	-.0233	.0297	.0289	.0000
225.000	.0757	.0447	-.0250	.0805	.1119	
240.000	.1213	.0185	-.0266	.0432	.0789	-.1500
270.000	-.0842	-.0531	-.0420	.0003	.4021	-.1547
300.000	-.1312	-.0879	-.0120	-.0299	.1599	-.1577
330.000	.0000	-.0969	-.0513	-.0282	-.0066	-.1648

ARC87-018 IASI LVAP(ALLML SCALED) EXTERNAL TANK (RETT87)

ALPHAT(1) = -7.014 BETAT (2) = -2.331

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.7070	.2655	.2934	.6218	.5206	.1174	-.0620	-.0978	-.1326	-.1338	.0170	-.0884	.0261	.0263	-.0220
30.000		.2947	.3038	.7072	.5117	.1510	-.0444	-.0842	-.1202	-.1236	.0257	-.0204	-.0206	-.1189	-.1389
60.000		.3105	.2783	.8147	.5860	.2101	-.0090	-.0530	-.0949	-.0991	.0628	.2280	-.2201	-.2441	-.1509
90.000		.3219	.2855	.9486	.6798	.2801	.0364	-.0105	-.0578	-.0603	.4265	.4688	-.2097	-.1827	-.1018
120.000		.3451	.3159	1.0408	.7968	.3448	.0953	.0351	-.0191	-.0280	.2096	.3308	.0927	.0323	.0702
135.000			.3360	1.0821	.7938	.3738	.1061	.0481	- 0108	-.0117	.2217	.2304	.1242	.2900	.1531
147.000		.3703	.3494	1.0888	.8133	.3875	.1081	.0522	-.0017	-.0029	.2439	.1567	.2692	.3291	.1814
162.000			.3520	1.1028	.8170	.3998	.1131	.0650	-.0011	-.0035	.2488	.0214	.3134	.2858	.1128
180.000	1.7070	.3958	.3453	1.0781	.8185	.3591	.0920	.0603	.0013	-.0107	.2385	.1894	.2897	.5876	.1398
198.000			.3428	1.0387	.8570	.3988	.0848	.0477	-.0271	-.0248	.2138	.1172	.2723	.1087	.2883
213.000		.3810	.3814	.7804	.0000	.1114	-.0255	.0517	-.0381	-.0202	.0924	.0954	.2730	.2262	.2330
225.000			.4153	.9478	.8419	.3088	.0845	-.0108	-.0443	-.0341	.1382	.1724	.1314	.2230	.1065
240.000		.2874	.2744	.9001	.7024	.2414	.0138	-.0204	-.0746	-.0749	.1092	.1563	.1538	.1148	.0672
270.000		.2847	.2841	.7706	.5433	.1837	-.0215	-.0652	-.1090	-.1100	.1654	.5990	-.2131	-.1629	-.0930
300.000		.2719	.2951	.6661	.4845	.1310	-.0507	-.0855	-.1280	-.1260	.0227	.1413	-.1343	-.2295	-.1686
330.000		.2578	.3058	.5319	.4465	.0000	-.0664	-.0982	-.1358	-.1285	.0200	.0000		-.0280	-.0552

X/LT	.6528	.6340	.7423	.8508	.9264	.9838
PHI						
.000	.0000	-.0992	-.0838	-.0184	-.0148	-.1579
30.000	-.0486	-.0458	-.0586	-.0411	-.0097	-.1615
60.000	-.1088	-.0529	-.0281	-.0237	.1112	-.1488
90.000	-.0008	-.0805	-.0481	-.0167	.6248	-.1494
120.000	.1287	.1239	.0374	.0442	.2870	-.1532
135.000	.0354	.0965	.0078	.2645	.3152	
147.000	.0697	.0618	.0761	.1416	.3889	- 1535
162.000	.1353	.0010	.0319	.0639	.4947	
180.000	.0897	.0113	.0659	.0779	.4830	-.1612
198.000	.0471	.0998	.0499	.0478	.4374	
213.000	-.0499	-.0391	.0032	.0459	.0222	.0000
225.000	.0720	.0651	-.0054	.0840	.1573	
240.000	.1226	.0461	-.0114	.0473	.1129	-.1407
270.000	-.0332	-.0952	-.0464	-.0274	.4270	-.1431
300.000	-.1388	-.0502	-.0157	-.0280	.1482	-.1451
330.000	.0000	-.0732	-.0584	-.0277	-.0065	-.1541

ARC87-018 (A8) LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(1) = -7.003 BETAT (3) = -.140

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0062	.0184	.0408	.0844	.1204	.1844	.2108	.2323	.2804	.2881	.3382	.3804	.4446	.4887
PHI															
.000	1.7077	.8888	.3188	.8730	.4888	.1830	-.0[illegible]01	-.0881	-.1317	-.1372	.0136	-.0[illegible]46	.0334	.0782	-.0142
30.000		.2863	.3617	.8888	.4863	.1388	-.0618	-.0807	-.1287	-.1284	.0202	-.0178	-.0836	-.0841	-.1136
60.000		.3081	.3024	.7488	.5338	.1788	-.0385	-.0736	-.1133	-.1171	.0374	.2084	-.2242	-.2488	-.1488
90.000		.3188	.[illegible]768	.8765	.8158	.2385	.0040	-.0392	-.0836	-.0858	.3504	.4267	-.2228	-.1606	-.0835
120.000		.3366	.2843	.9815	.7086	.2951	.0572	.0077	-.0469	-.0532	.1653	.2398	.1045	.0476	.0448
135.000			.2880	1.0353	.7426	.3313	.0760	.0238	-.0306	-.0321	.1824	.2017	.1511	.2752	.1212
147.000		.3704	.3071	1.0703	.7812	.3580	.0887	.0401	-.0149	-.0260	.2124	.1330	.2668	.3103	.1345
162.000			.3224	1.0918	.8477	.3898	.1084	.0505	-.0138	-.0100	.2258	.0032	.3053	.1796	.1245
180.000	1.7077	.4036	.3357	1.0918	.9062	.3480	.0977	.0679	-.0092	-.0062	.2358	.0055	.3153	.8588	.1862
198.000			.3431	1.0723	.8308	.4284	.0820	.0555	-.0179	-.0188	.2175	.1158	.2568	.1409	.2495
213.000		.3528	.3966	.8907	.0000	.1473	-.0047	.0682	-.0238	-.0188	.1013	.1208	.2732	.2482	.2719
225.000			.4798	1.0248	.8828	.3517	.0877	.0055	-.0324	-.0238	.1582	.1676	.1312	.2575	.1282
240.000		.2843	.3254	.8710	.7583	.2811	.0378	-.0088	-.0593	-.0552	.1357	.1779	.1498	.1002	.0815
270.000		.2886	.2893	.8564	.8075	.2248	-.0044	-.0498	-.0826	-.0837	.2228	.8285	-.1981	-.1816	-.0825
300.000		.2886	.3000	.7402	.5232	.1588	-.0435	-.0783	-.1212	-.1175	.0367	.1872	-.1426	-.2392	-.1886
330.000		.2738	.3163	.8310	.4956	.0000	-.0858	-.0876	-.1365	-.1298	.0182	.0000		-.0782	-.0906

X/LT	.5528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.1186	-.0604	-.0193	-.0137	-.1443
30.000	-.1025	-.0456	-.0528	-.0347	-.0144	-.1514
60.000	-.1306	-.0656	-.0163	-.0277	.0737	-.1531
90.000	-.0138	-.0838	-.0578	-.0287	.5356	-.1348
120.000	.1010	.1020	.0047	.0167	.2686	-.1507
135.000	.0244	.0525	-.0076	.2015	.2823	
147.000	.0914	.0312	.0509	.1291	.2873	-.1746
162.000	.1114	.0302	.0247	.0237	.4775	
180.000	.0914	.0278	.0927	.1281	.4058	-.1818
198.000	-.0003	.0281	.0427	.0797	.3842	
213.000	.0117	.0181	.0294	.0821	.0733	.0000
225.000	.0884	.0818	-.0207	.0875	.1584	
240.000	.1343	.0636	.0130	.0335	.1784	-.1812
270.000	-.0188	-.0805	-.0457	-.0345	.4153	-.1548
300.000	-.1526	-.0979	-.0173	-.0284	.0863	-.1558
330.000	.0000	-.0457	-.0607	-.0382	-.0015	-.1986

ARC97-010 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(1) = -6.000 BETAT (4) = 2.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0804	.1204	.1944	.2108	.2323	.2504	.2821	.3362	.3804	.4445	.4887
PHI															
.000	1.0004	.2828	.3115	.5801	.5125	.1245	-.0625	-.0985	-.1318	-.1353	.0118	-.0986	.0332	.0308	-.0211
30.000		.2783	.3071	.8136	.4801	.1195	-.0638	-.0991	-.1328	-.1332	.0145	-.0101	-.0715	-.0463	-.0711
60.000		.2940	.2997	.8942	.4941	.1402	-.0482	-.0871	-.1258	-.1244	.0238	.1794	-.2218	-.2452	-.1425
90.000		.3071	.2880	.7894	.5606	.1889	-.0246	-.0637	-.1018	-.0993	.2935	.4083	-.2359	-.1439	-.0721
120.000		.3279	.2716	.9137	.6471	.2462	.0236	-.0225	-.0688	-.0704	.1357	.1694	.1181	.0613	.0246
135.000			.2733	.9777	.6831	.2876	.0433	-.0001	-.0451	-.0520	.1522	.1764	.1748	.2655	.0743
147.000		.3537	.2827	1.0177	.7500	.3266	.0688	.0233	-.0328	-.0364	.1848	.1221	.2613	.2836	.0803
162.000			.3043	1.0546	.8155	.3589	.0902	.0329	-.0158	-.0235	.2107	-.0061	.2893	.0971	.1527
180.000	1.0004	.3674	.3347	1.0729	.8805	.3362	.1189	.0659	-.0111	-.0118	.2299	.0701	.2602	.5706	.1534
198.000			.3720	1.0770	.7920	.4480	.1122	.0659	.0046	-.0079	.2100	.1687	.2478	.1719	.2778
213.000		.3218	.4381	.9689	.0000	.1845	.0176	.0909	-.0028	-.0116	.1134	.1798	.2659	.2765	.2475
225.000			.5628	1.0837	.7409	.4056	.1213	.0326	-.0045	-.0024	.1942	.2076	.1526	.2568	.1687
240.000		.2790	.3722	1.0167	.8021	.3282	.0775	.0226	-.0320	-.0327	.1858	.2285	.1328	.0763	.0787
270.000		.2940	.2839	.9319	.6857	.2742	.0236	-.0201	-.0683	-.0717	.2865	.6575	-.1957	-.1912	-.0975
300.000		.2984	.2899	.7950	.5579	.1939	-.0209	-.0595	-.1350	-.1037	.0572	.1845	-.1496	-.2426	-.1598
330.000		.2840	.3010	.6921	.4994	.0000	-.0510	-.0831	-.1247	-.1218	.0239	.0000		-.1215	-.1226

X/LT	.9520	.6340	.7423	.8508	.9264	.9838
PHI						
.000	.0000	-.1082	-.0652	-.0210	-.0178	-.1540
30.000	-.1109	-.0639	-.0504	-.0277	-.0169	-.1652
60.000	-.1402	-.0678	-.0253	-.0283	.1320	-.1547
90.000	-.0386	-.1017	-.0501	-.0283	.5755	-.1503
120.000	.0814	.0788	-.0193	.0257	.1007	-.1503
135.000	.0780	.0132	-.0186	.1386	.2193	
147.000	.0747	.0209	.0389	.1244	.2221	-.1679
162.000	.0760	-.0019	.0604	.1131	.3570	
180.000	.0844	.0172	.0384	.0727	.3978	-.1699
198.000	-.0083	-.0109	.0497	.0984	.3890	
213.000	.0380	.0567	.0647	.1047	.1628	.0000
225.000	.0847	.0882	.0030	.1425	.2105	
240.000	.1458	.0889	.0317	.0820	.2278	-.1855
270.000	-.0093	-.0608	-.0173	-.0284	.5488	-.1602
300.000	-.1188	-.0893	-.0210	-.0383	.1109	-.1604
330.000	.0000	-.0494	-.0674	-.0482	.0847	-.1882

ARC87-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(1) = -6.000 BETAT (5) = 4.200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0400	.0844	.1284	.1944	.2108	.2323	.2884	.2921	.3362	.3904	.4445	.4987
PHI															
.000	1.7037	.2812	.4937	.6080	.7384	.1185	-.0857	-.1015	-.1320	-.1360	.0127	-.0877	.0283	.0054	-.0490
30.000		.2842	.2987	.5065	.4812	.1178	-.0677	-.1038	-.1389	-.1407	.0201	-.0062	-.0719	-.0284	-.0553
60.000		.2820	.2981	.6202	.4328	.1208	-.0637	-.1018	-.1342	-.1349	.0098	.1458	-.2168	-.2415	-.1371
90.000		.2880	.2847	.7092	.5033	.1541	-.0450	-.0818	-.1162	-.1105	.2354	.4214	-.2450	-.1294	-.0547
120.000		.2887	.2535	.8235	.5943	.2088	-.0052	-.0473	-.0882	-.0897	.1038	.1168	.1326	.0844	.0171
135.000			.2471	.8976	.5910	.2597	.0193	-.0215	-.0689	-.0741	.1176	.1601	.1839	.2386	.0558
147.000		.3188	.2518	.9514	.7179	.3040	.0504	.0002	-.0532	-.0520	.1482	.1243	.2560	.3049	.0458
162.000			.2824	1.0019	.7793	.3230	.0678	.0217	-.0232	-.0378	.1866	.0592	.2453	.0482	.1132
180.000	1.7037	.3175	.3522	1.0482	.7770	.3483	.1179	.0527	-.0036	-.0150	.2233	.0776	.3260	.5772	.0905
198.000			.4422	1.0858	.7548	.4442	.1327	.0647	.0244	.0071	.2249	.0011	.3022	.1567	.3058
213.000		.2863	4902	1.0536	.0000	.2091	.0333	.1147	.0151	-.0004	.1429	.1605	.2912	.3142	.2991
225.000			.6486	1.0956	.7975	.4362	.1480	.0574	.0210	.0241	.2145	.2192	.1720	.2844	.2063
240.000		.2863	.4056	1.0684	.8435	.3630	.1129	.0471	-.0020	-.0034	.2340	.2963	.1219	.0652	.0949
270.000		.3138	.2877	.9811	.7373	.3140	.0624	.0098	-.0448	-.0449	.3588	.6949	-.1776	-.1885	-.0920
300.000		.3145	.2714	.9056	.5950	.2201	-.0015	-.0402	-.0884	-.0887	.0840	.1957	-.1488	-.2426	-.1691
330.000		.2910	.2914	.7713	.5091	.0000	-.0446	-.0765	-.1210	-.1179	.0275	.0000		-.1465	-.1458

X/LT	.9528	.8340	.7423	.6508	.9284	.9838
PHI						
.000	.0000	-.0858	-.0817	-.0287	-.0234	-.1507
30.000	-.1188	-.0898	-.0502	-.0267	-.0193	-.1842
60.000	-.1458	-.0755	-.0301	-.0280	.1422	-.1544
90.000	-.0882	-.1151	-.0459	-.0257	.4876	-.1504
120.000	.0745	.0482	-.0244	.0584	.0728	-.1420
135.000	.0845	-.0301	-.0094	.1011	.1986	
147.000	.0235	.0053	.0261	.0907	.1704	-.1585
162.000	.0248	-.0204	.0230	.0414	.3397	
180.000	.0350	-.0070	-.0157	.0704	.4711	-.1659
198.000	-.0585	-.1007	.0084	.0781	.4887	
213.000	.1835	.0780	.0787	.1011	.1922	.0000
225.000	.0882	.0814	.0294	.1819	.2275	
240.000	.1812	.1607	.0517	.0888	.2506	-.1719
270.000	.0855	-.0435	-.0714	-.0008	.6084	-.1845
300.000	-.0848	-.0857	-.0267	-.0251	.0986	-.1639
330.000	.0000	-.0843	-.0884	-.0587	-.0420	-.1800

ARC97-010 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(2) = -4.814 BETAT (1) = -8.714

SECTION (1)=EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.6811	.2210	.3080	.6993	.8082	.1442	-.0359	-.0733	-.1110	-.1182	.0299	-.0810	-.0024	.0023	-.0397
30.000		.2968	.2691	.8212	.5844	.2199	.0051	-.0371	-.0778	-.0807	.0839	.0160	.0227	-.1303	-.1310
60.000		.3215	.2855	.9951	.6935	.3154	.0635	.0143	-.0353	-.0390	.1570	.3185	-.1656	-.2057	-.0965
90.000		.3522	.3272	1.0637	.7923	.3862	.1163	.0623	.0067	.0058	.5580	.5661	-.2082	-.1655	-.1064
120.000		.3792	.3743	1.1056	.8366	.4145	.1393	.0841	.0258	.0209	.2861	.5101	.0444	.0053	.0236
135.000			.3700	1.1053	.8233	.4182	.1370	.0827	.0254	.0189	.2643	.2278	.1381	.1722	.1849
147.000		.3822	.3548	1.0913	.8101	.3964	.1308	.0758	.0148	.0085	.2593	.1698	.2344	.3137	.2305
162.000			.3389	1.0500	.7701	.3554	.0999	.0507	-.0005	-.0055	.2272	.0537	.2792	.3272	.1855
180.000	1.8011	.3854	.3231	.9851	.7218	.3423	.0788	.0205	-.0284	-.0288	.1851	.0890	.2751	.3827	.0821
198.000			.3415	.9189	.8313	.3088	.0377	-.0048	-.0586	-.0814	.1358	.1071	.2410	.0893	.2588
213.000		.3438	.3783	.5771	.0000	.0398	-.0983	-.0179	-.0858	-.0880	.0283	.1005	.1853	.1712	.0356
225.000			.3589	.7648	.5325	.2190	.0031	-.0628	-.0931	-.0827	.0557	.0866	.0724	.1578	.0217
240.000		.3110	.2791	.7281	.5632	.1455	-.0426	-.0710	-.1152	-.1152	.0491	.0893	.1429	.0788	.0171
270.000		.2771	.2883	.8419	.4634	.1137	-.0644	-.0940	-.1325	-.1185	.1007	.5219	-.2327	-.1317	-.0903
300.000		.2533	.2886	.4919	.4182	.1239	-.0706	-.0979	-.1359	-.1346	.0236	.0662	-.0806	-.1839	-.1133
320.000		.2115	.2833	.6088	.4410	.0000	-.0630	-.0930	-.1312	-.1263	.0064	.0000		-.0342	-.0470

X/LT	.9528	.8340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0897	-.0738	-.0523	-.0359	-.1592
30.000	-.0441	-.0326	-.0707	-.0894	-.0546	-.1648
60.000	-.0306	-.1120	-.0486	.0008	.1688	-.1542
90.000	.0008	-.0245	-.0842	.0117	.6015	-.1529
120.000	.1865	.1744	.0723	.1068	.3420	-.1555
135.000	.0590	.0973	.0585	.3281	.3598	
147.000	.1085	.0733	.1118	.1827	.4168	-.2006
162.000	.0728	.0374	.0855	.0146	.6715	
180.000	.0393	-.0292	.0189	.0875	.5351	-.1978
198.000	.0557	-.1089	-.0064	.0149	.4958	
213.000	-.1412	-.0824	-.0487	.0058	-.0548	.0000
225.000	.0288	-.0215	-.0550	.0373	.1290	
240.000	.0728	-.0387	-.0458	.0313	.0818	-.1398
270.000	-.0772	-.0170	-.0271	.0417	.4730	-.1408
300.000	-.0585	-.0756	-.0382	-.0185	.1825	-.1458
330.000	.0000	-.0927	-.0382	-.0288	-.0108	-.1525

ARC87-010 IAB1 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT37)

ALPHAT(2) = -4.010 BETAT (2) = -4.007

SECTION (1):EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0400	.0844	.1294	.1944	.2106	.2323	.2884	.2821	.3382	.3804	.4446	.4987
PHI															
.000	1.0782	.2000	.3257	.7050	.6243	.1953	-.0363	-.0724	-.1000	-.1133	.0387	-.0781	.0 [illegible]	.0193	-.0238
30.000		.3182	.3113	.7000	.5710	.2040	-.0037	-.0440	-.0856	-.0007	.0706	.0127	.0272	-.1129	-.1230
60.000		.3320	.2004	.0007	.0530	.2733	.0410	-.0003	-.0501	-.0505	.1270	.3130	-.1700	-.2157	-.1'90
90.000		.3404	.2020	1.0210	.7360	.3414	.0034	.0335	-.0102	-.0230	.4000	.5202	-.2102	-.1027	-.1219
120.000		.3024	.3254	1.0007	.7070	.3701	.1102	.0004	.0027	.0007	.2400	.4310	.0430	-.0110	.0410
135.000			.3303	1.0010	.7070	.3700	.1154	.0057	.0005	-.0003	.2350	.2131	.1202	.2050	.1502
147.000		.3720	.3303	1.0773	.7070	.3700	.1141	.0500	.0023	-.0007	.2420	.1507	.2325	.3324	.1010
102.000			.3253	1.0510	.7002	.3505	.0012	.0477	-.0032	-.0123	.2270	.0554	.2711	.2023	.1200
100.000	1.0702	.3713	.3221	1.0041	.7503	.3207	.0722	.0213	-.0170	-.0270	.2000	.0000	.2002	.5040	.1024
10[illegible].000			.3335	.0472	.0315	.3336	.0372	.0121	-.0400	-.0400	.1041	.1147	.2371	.0001	.2200
213.000		.3047	.3044	.0720	.0000	.0502	-.0405	.0134	-.0020	-.0432	.0510	.0704	.2140	.2007	.1500
225.000			.3042	.0350	.5000	.2405	.0207	-.0437	-.0711	-.0500	.0054	.1170	.0070	.1050	.0400
240.000		.3105	.2001	.7030	.0300	.1021	-.0150	-.0400	-.0047	-.0044	.0700	.1130	.1103	.0700	.0253
270.000		.2710	.2050	.7025	.5125	.1540	-.0307	-.0740	-.1107	-.1143	.1301	.5071	-.2300	-.1451	-.0050
300.000		.2420	.3000	.5707	.4704	.1307	-.0047	-.0032	-.1230	-.1230	.0330	.1072	-.0007	-.1010	-.1350
330.000		.0237	.3120	.0200	.4704	.0000	-.0520	-.0050	-.1243	-.1100	.0272	.0000		-.0223	-.0334

X/LT	.0000	.0340	.7423	.0500	.0004	.0030
PHI						
.000	.0000	-.0704	-.0030	-.0340	-.3107	-.1407
30.000	-.0407	-.0100	-.0070	-.0420	-.0030	-.1701
60.000	-.0337	-.0712	-.0400	-.0004	.1020	-.1513
90.000	-.0000	-.0375	-.0204	.0001	.0200	-.1474
100.000	.1374	.1254	.0420	.0772	.2004	-.1474
135.000	.0400	.0021	.0270	.2002	.3200	
147.000	.0000	.0703	.0700	.1424	.3030	-.1002
102.000	.0000	-.0130	.0010	.0300	.0004	
100.000	.0017	.0377	-.0103	.0002	.5100	-.1002
100.000	.0402	-.0100	.0040	.0300	.4410	
213.000	-.1172	-.0030	-.0370	.0301	.0130	.0000
225.000	.0400	.0302	-.0302	.0500	.1207	
240.000	.0007	.0102	-.0370	.0130	.0704	-.1414
270.000	-.0000	-.0013	-.0347	.0402	.4030	-.1471
300.000	-.0003	-.0000	-.0000	-.0170	.1713	-.1400
330.000	.0000	-.0704	-.0400	-.0034	-.0007	-.1370

ARC87-019 1AB1 LVAP(ALL+L SEALED) EXTERNAL TANK (RETT37)

ALPHAT(2) = -4.780 BETAT (3) = -.156

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1284	.1944	.2108	.2328	.2594	.2881	.3382	.3804	.4446	.4987
PHI															
.000	1.0000	.2705	.3381	.6870	.6883	.1600	-.0373	-.0730	-.1080	-.1128	.0498	-.0827	.0397	.0832	.0058
30.000		.2881	.3295	.7278	.9413	.1741	-.0281	-.0681	-.1053	-.1068	.0588	.0090	-.0494	-.0442	-.0680
60.000		.3108	.3240	.7802	.5795	.1995	-.0111	-.0513	-.0938	-.0973	.0719	.2586	-.1877	-.2220	-.1457
90.000		.3220	.3164	.8624	.6259	.2478	.0139	-.0291	-.0739	-.0750	.3661	.4389	-.2409	-.1567	-.1209
120.000		.3423	.3256	.9536	.6871	.2812	.0486	.0037	-.0471	-.0553	.1623	.2473	.0604	-.0078	.0137
135.000			.3272	1.0157	.7065	.2995	.0659	.0112	-.0413	-.0417	.1640	.1724	.0870	.2588	.1081
147.000		.3587	.3345	1.0445	.7302	.3191	.0682	.0194	-.0295	-.0370	.1838	.1297	.2309	.2988	.1303
162.000			.3431	1.0564	.7441	.3429	.0807	.0303	-.0311	-.0271	.1966	-.0057	.2463	.1460	.1126
180.000	1.0000	.3882	.3494	1.0525	.8816	.3080	.0653	.0391	-.0275	-.0257	.1979	.0065	.2722	.6211	.1695
198.000			.3579	1.0362	.8082	.3743	.0534	.0290	-.0265	-.0327	.1732	.1353	.2158	.1335	.2554
213.000		.3325	.4025	.8956	.0000	.1233	-.0186	.0479	-.0357	-.0360	.0759	.1412	.2374	.2306	.2325
225.000			.4761	.9950	.7062	.3317	.0715	-.0083	-.0374	-.0314	.1514	.1764	.1224	.2338	.1215
240.000		.2838	.3585	.9389	.7757	.2570	.0385	-.0135	-.0597	-.0583	.1452	.1810	.0915	.0450	.0447
270.000		.2885	.3330	.8487	.8071	.2231	.0040	-.0357	-.0863	-.0790	.2461	.6373	-.2298	-.1699	-.1229
300.000		.2858	.3366	.7720	.5617	.1868	-.0205	-.0582	-.1039	-.1016	.0728	.2028	-.1018	-.2038	-.1591
330.000		.2988	.3389	.7038	.5401	.0000	-.0383	-.0723	-.1142	-.1088	.0489	.0000		-.0383	-.0586

X/LT	.0000	.0140	.7423	.8506	.9884	.9838
PHI						
.000	.0000	-.0862	-.0417	-.0152	-.0062	-.1358
30.000	-.0918	-.0282	-.0479	-.0217	-.0145	-.1450
60.000	-.0458	-.0048	-.0089	- 0172	.1334	-.1440
90.000	-.0255	-.0814	-.0316	-.0090	.6047	-.1434
120.000	.0082	.0936	-.0057	.0175	.2879	-.1450
135.000	-.0285	.0425	-.0298	.1987	.2789	
147.000	.0718	.0055	.0294	.1274	.2699	-.1727
162.000	.0000	.0094	.0015	.0417	.4314	
180.000	.0718	-.0001	.0577	.1270	.3705	-.1780
198.000	.0104	.0415	.0175	.0849	.3399	
213.000	-.0486	-.0098	.0165	.0885	.0934	.0000
225.000	.0401	.0619	-.0332	.0941	.1600	
240.000	.1143	.0605	-.0060	.0408	.1723	-.1444
270.000	-.0258	-.0781	-.0087	-.0118	.5057	-.1444
300.000	-.0746	-.0985	-.0145	-.0135	.1377	-.1457
330.000	.0000	-.0257	-.0944	-.0235	-.0084	-.1500

ARC87-018 IA81 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT37)

ALPHA(I,2) = -4.739 BETAT . 4) = 4.803

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0450	.0844	.1294	.1944	.2100	.2323	.2594	.2821	.3382	.3804	.4445	.4887
PHI															
.000	1.0043	.2506	.3172	.7013	.6438	.1515	-.0488	-.0751	-.1119	-.1147	.0428	-.0882	.0383	.0240	-.0248
30.000		.2878	.3080	.6080	.4890	.1486	-.0490	-.0858	-.1207	-.1223	.0280	.0076	-.0574	-.0206	-.0333
60.000		.2821	.3130	.6348	.4900	.1420	-.0477	-.0852	-.1152	-.1200	.0418	.1832	-.1794	-.2072	-.1186
90.000		.2926	.3061	.7066	.5173	.1629	-.0377	-.0734	-.1073	-.1083	.2661	.4944	-.2530	-.1465	-.0950
120.000		.3015	.2929	.7781	.5706	.1917	-.0078	-.0498	-.0929	-.0903	.1013	.1330	.0890	.0356	-.0258
135.000			.2900	.8435	.5876	.2312	.0030	-.0344	-.0753	-.0807	.1000	.1416	.1520	.2321	.0478
147.000		.3153	.2877	.9086	.6404	.2632	.0258	-.0160	-.0661	-.0660	.1234	.1186	.2327	.2931	.0337
162.000			.2868	.9571	.7326	.2900	.0458	-.0020	-.0422	-.0550	.1495	.1077	.2219	.0284	.1017
180.000	1.0043	.3176	.3270	.9316	.8225	.2820	.0873	.0281	-.0249	-.0354	.1756	.0939	.3095	.5504	.0726
198.000			.3837	1.0311	.7428	.3903	.1014	.0317	.0013	-.0150	.1895	.0686	.2718	.1435	.2860
213.000		.3054	.3884	1.0315	.0000	.1887	.0141	.0850	-.0038	-.0170	.1195	.1452	.2708	.2990	.2654
225.000			.5442	1.0503	.8107	.4168	.1184	.0451	.0093	.0113	.1769	.1834	.1199	.2314	.1834
240.000		.3381	.3771	1.0540	.8538	.3272	.1112	.0418	-.0087	-.0120	.2221	.2965	.0671	.0105	.0628
270.000		.3514	.3332	1.0088	.7270	.3161	.0672	.0229	-.0247	-.0314	.3832	.6978	-.2085	-.1911	-.1329
300.000		.3188	.3224	.9174	.6375	.2541	.0263	-.0170	-.0704	-.0670	.1234	.2633	-.1055	-.2052	-.1516
330.000		.2880	.3214	.7086	.5622	.0000	-.0151	-.0514	-.0977	-.0328	.0686	.0000		-.1071	-.1186

X/LT	.9838	.9340	.7423	.9508	.9284	.9838
PHI						
.000	.0000	-.0015	-.0588	-.6285	-.0198	-.1478
30.000	-.0006	-.0870	-.0483	-.0200	-.0185	-.1568
60.000	-.0513	-.0887	-.0348	-.0285	.1500	-.1482
90.000	-.0506	-.1175	-.0506	-.0053	.5000	-.1436
120.000	.0818	.0462	-.0473	.0841	.0858	-.1333
135.000	.0829	-.0449	-.0279	.0819	.1910	
147.000	.0826	-.0184	.0181	.0909	.1606	-.1571
162.000	.0179	-.0437	.0229	.0500	.3084	
180.000	.0232	-.0184	-.0388	.0716	.4529	-.1854
198.000	-.0818	-.1033	.0716	.0815	.4861	
213.000	.0729	.0581	.0877	.0695	.1987	.0638
225.000	.0381	.0748	.0238	.1483	.2257	
240.000	.1313	.0858	.0448	.0859	.2147	-.1884
270.000	-.0124	-.0411	-.0046	.0288	.0195	-.1955
300.000	-.0378	-.0713	-.0448	-.0005	.1823	-.1851
330.000	.0000	-.0253	-.0534	-.0418	-.0375	-.1080

ARC97-019 !AB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(2) = -4.731 BETAT (5) = 6.358

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2584	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6851	.2101	.3422	.7139	.6382	.1546	-.0407	-.0744	-.1098	-.1163	.0333	-.0928	.0258	-.0018	-.0340
30.000		.2495	.3162	.5883	.4725	.1295	-.0603	-.0957	-.1287	-.1303	.0175	.0072	-.0531	-.0287	-.0393
60.000		.2659	.3126	.5286	.4419	.1220	-.0600	-.0984	-.1287	-.1327	.0251	.1455	-.1797	-.1983	-.0984
90.000		.2942	.3110	.6362	.4709	.1288	-.0593	-.0911	-.1222	-.1087	.2053	.5611	-.2543	-.1471	-.0869
120.000		.3041	.2880	.7235	.5153	.1546	-.0337	-.0711	-.1039	-.1093	.0703	.0879	.1015	.0582	-.0272
135.000			.2659	.7956	.5483	.2030	-.0157	-.0501	-.0911	-.0950	.0647	.1166	.1409	.1940	.0120
147.000		.2939	.2551	.8477	.6040	.2458	.0125	-.0331	-.0800	-.0787	.0957	.0857	.2143	.3098	.0150
162.000			.2634	.9085	.7015	.2654	.0286	-.0068	-.0523	-.0610	.1244	.0860	.1852	.0100	.0434
180.000	1.6851	.2834	.3152	.9719	.7776	.3043	.0813	.0180	-.0238	-.0347	.1779	.0900	.2934	.5669	.0591
198.000			.4515	1.0417	.6926	.3984	.1259	.0324	.0131	-.0064	.1947	.0571	.2780	.1816	.3461
213.000		.2962	.4127	1.0427	.0000	.1961	.0122	.0935	-.0026	-.0137	.1502	.1623	.2744	.3069	.2795
225.000			.6149	1.0800	.8602	.4653	.1279	.0641	.0233	.0219	.2300	.2057	.1041	.2099	.1933
240.000		.3603	.4094	1.0885	.8952	.3713	.1390	.0647	.0033	.0079	.2565	.3737	.0684	.0075	.0581
270.000		.3954	.3394	1.0589	.8131	.3739	.0994	.0504	-.0157	-.0091	.4386	.7301	-.1967	-.1862	-.1189
300.000		.3767	.3119	.9633	.6926	.2899	.0505	.0040	-.0524	-.0514	.1475	.2721	-.0986	-.1977	-.1291
330.000		.3382	.3237	.8428	.5898	.0000	-.0016	-.0411	-.0900	-.0882	.0772	.0000		-.1208	-.1319

X/LT	.9528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0793	-.0714	-.0472	-.0360	-.1580
30.000	-.0953	-.0783	-.0442	-.0283	-.0270	-.1584
60.000	-.0498	-.0718	-.0377	-.0214	.1782	-.1518
90.000	-.0695	-.0770	-.0462	-.0231	.6139	-.1471
120.000	.0573	.0059	-.0439	.0463	.0726	-.1379
135.000	.0210	-.0449	-.0406	.0574	.1479	
147.000	-.0319	-.0367	-.0216	.0963	.2208	-.1475
162.000	-.0378	-.0819	-.0554	.0211	.2885	
180.000	-.0509	-.0524	-.0541	-.0038	.3858	-.1613
198.000	-.0960	-.1636	.0780	-.0332	.6031	
213.000	.1079	.0522	.0822	.0884	.2108	.0000
225.000	.0988	.1036	.0489	.1439	.2318	
240.000	.1887	.1253	.0649	.0942	.3178	-.1805
270.000	-.0025	-.0184	-.0848	.0339	.8130	-.1647
300.000	-.0273	-.0977	-.0378	.0078	.1709	-.1594
330.000	.0000	-.0347	-.0685	-.0997	-.0809	-.1703

ARC97-019 1AB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(3) = -2.882 BETAT (1) = -8.705

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0184	.0430	.0844	.1894	.1944	.2108	.2323	.2594	.2821	.3382	.3804	.4445	.4987
PHI															
.000	1.0001	.2185	.3418	.7676	.8000	.1803	-.0204	-.0882	-.0838	-.1002	.0840	-.0744	-.0033	.0115	-.0288
30.000		.3244	.2954	.8083	.6348	.2542	.0298	-.0191	-.0834	-.0888	.1196	.0438	.0873	-.0979	-.1090
60.000		.3441	.2811	1.0011	.7278	.3324	.0780	.0265	-.0251	-.0295	.1876	.4072	-.1374	-.1762	-.0760
90.000		.3560	.3152	1.0703	.7882	.3827	.1089	.0567	.0024	.0019	.5574	.5585	-.2375	-.1745	-.0419
120.000		.3812	.3308	1.0748	.7977	.3755	.1148	.0607	.0043	-.0005	.2527	.4659	-.0069	-.0378	-.0604
135.000			.3188	1.0589	.7746	.3713	.1004	.0505	-.0038	-.0045	.2256	.1778	.0794	.1019	.1527
147.000		.3548	.3065	1.0333	.7522	.3484	.0912	.0430	-.0117	-.0188	.2117	.1335	.1918	.2906	.1920
162.000			.2976	.9934	.7084	.2971	.0656	.0168	-.0339	-.0345	.1760	.0475	.2590	.3064	.1491
180.000	1.0001	.3425	.2996	.9312	.6579	.2948	.0433	-.0097	-.0591	-.0555	.1384	.1075	.2699	.5303	.0744
198.000			.3242	.8494	.7631	.2840	.0059	-.0297	-.0804	-.0842	.0987	.0900	.2140	.0477	.2251
213.000		.3316	.3438	.5840	.0000	.0165	-.0821	-.0313	-.0951	-.0765	.0082	.0920	.1726	.1604	.0544
225.000			.3442	.7357	.5105	.1970	-.0132	-.0785	-.1028	-.0945	.0448	.0706	.0424	.1422	-.0032
240.000		.2934	.2894	.7018	.4490	.1349	-.0478	-.0788	-.1222	-.1209	.0468	.0893	.0792	.0295	-.0255
270.000		.2569	.2930	.6061	.3834	.1091	-.0693	-.0985	-.1345	-.1309	.1205	.5615	-.2334	-.1621	-.0845
300.000		.2428	.2987	.5507	.4554	.1333	-.0677	-.0981	-.1325	-.1309	.0210	.0982	-.0457	-.1529	-.1097
330.000		.1994	.2980	.6790	.4914	.0000	-.0478	-.0804	-.1229	-.1181	.0207	.0000		-.0262	-.0239

X/LT	.9528	.8340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0619	-.0535	-.0535	-.0388	-.1513
30.000	-.0367	-.0122	-.0503	-.0486	-.0462	-.1675
60.000	-.0053	-.0292	-.0877	.0055	.2160	-.1507
90.000	-.0344	-.0493	-.0949	.0205	.6917	-.1480
120.000	.1043	.1498	.0672	.0975	.3408	-.1497
135.000	.0358	.0822	.0482	.3247	.3607	
147.000	.0743	.0488	.0955	.1715	.4222	-.1956
162.000	.0259	.0072	.0454	.0189	.0501	
180.000	.0405	-.0581	-.0024	.0539	.5102	-.1884
198.000	.0373	-.1225	-.0319	.0398	.4819	
213.000	-.1634	-.1067	-.0620	.0159	-.0572	.0000
225.000	-.0053	-.0191	-.0853	.0280	.1229	
240.000	.0553	-.0427	-.0630	.0300	.0821	-.1381
270.000	-.0787	-.1021	-.0538	.0884	.4617	-.1397
300.000	.0016	-.0315	-.0510	-.0188	.1718	-.1440
330.000	.0000	-.0899	-.0371	-.0341	-.0058	-.1474

ARC97-019 IABI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(3) = -2.666 BETAT (2) = -2.352

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2884	.2821	.3382	.3804	.4445	.4987
PHI															
.000	1.0910	.2363	.3354	.7826	.6412	.1955	-.0169	-.0552	-.0932	-.0975	.0813	-.0682	.0252	.0553	.0145
30.000		.2995	.3318	.8279	.6098	.2305	.0057	-.0381	-.0804	-.0862	.0976	.0304	-.0150	-.0443	-.0715
60.000		.3143	.3259	.8825	.6571	.2823	.0277	-.0183	-.0627	-.0675	.1300	.3530	-.1515	-.1870	-.1430
90.000		.3252	.3279	.9431	.6958	.2912	.0481	-.0019	-.0463	-.0531	.4390	.4725	-.2494	-.1762	-.0629
120.000		.3358	.3361	.9800	.7110	.3066	.0577	.0100	-.0378	-.0444	.1788	.3516	-.0068	-.0690	-.0213
135.000			.3374	.9914	.7050	.3115	.0600	.0139	-.0382	-.0437	.1651	.1452	.0799	.1553	.0982
147.000		.3331	.3354	.9934	.7086	.3007	.0603	.0080	-.0440	-.0414	.1766	.1294	.2022	.2912	.1244
162.000			.3402	.9717	.6931	.2997	.0442	.0080	-.0431	-.0524	.1664	.0918	.2260	.1935	.0867
180.000	1.0910	.3269	.3398	.9334	.7156	.2758	.0338	-.0011	-.0447	-.0581	.1541	.1277	.2326	.5394	.1221
198.000			.3412	.8921	.7797	.2994	.0179	-.0087	-.0591	-.0648	.1313	.1142	.2172	.0882	.2350
213.000		.3097	.3668	.7528	.0000	.0811	-.0498	.0087	-.0630	-.0648	.0380	.0842	.2010	.2043	.1825
225.000			.4180	.8511	.8426	.2640	.0284	-.0404	-.0675	-.0611	.1105	.1557	.0858	.1958	.0798
240.000		.2781	.3392	.8228	.6887	.1985	.0004	-.0434	-.0648	-.0818	.0976	.1488	.0488	-.0121	-.0131
270.000		.2829	.3484	.7810	.5813	.1762	-.0228	-.0506	-.1005	-.0995	.2230	.8245	-.2357	-.1729	-.1040
300.000		.2837	.3310	.7192	.5504	.1935	-.0311	-.0585	-.1022	-.1045	.0731	.1511	-.0545	-.1633	-.1384
330.000		.2751	.3514	.7536	.5534	.0000	-.0252	-.0821	-.1076	-.1004	.0664	.0000		-.0170	-.0130

X/LT	.5528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0785	-.0361	-.0224	-.0181	-.1498
30.000	-.0729	-.0044	-.0358	-.0191	.0308	-.1513
60.000	-.0110	-.0064	-.0308	-.0283	.1746	-.1433
90.000	-.0513	-.0693	-.0466	-.0001	.6676	-.1438
120.000	.0559	.0878	.0138	.0442	.2267	-.1460
135.000	-.0080	.0527	-.0177	.2609	.3069	
147.000	.0123	.0014	.0148	.1393	.4165	-.1652
162.000	.0906	-.0545	.0045	.0635	.4980	
180.000	.0221	-.0387	-.0667	.1380	.4406	-.1688
198.000	.0195	.0133	-.0109	.0678	.3550	
213.000	-.1139	-.0917	-.0381	.0612	.0494	.0000
225.000	-.0087	.0254	-.0657	.0711	.1582	
240.000	.0752	.0340	-.0473	.0604	.1335	-.1377
270.000	-.0538	-.0979	-.0450	.0073	.5195	-.1387
300.000	.0002	-.0048	-.0431	-.0181	.1786	-.1423
330.000	.0000	-.0588	-.0411	-.0258	.0083	-.1499

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(3) = -2.571 BETAT (3) = 2.023

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1884	.1944	.2108	.2323	.2584	.2881	.3382	.3804	.4446	.4887
PHI															
.000	1.0031	.2860	.3678	.7806	.8482	.1983	-.0180	-.0886	-.0860	-.0883	.0802	-.0087	.0384	.0080	.0157
30.000		.2883	.3480	.7820	.5882	.1881	-.0209	-.0634	-.1009	-.1030	.0890	.0216	-.0371	-.0137	-.0198
60.000		.3081	.3400	.7716	.5679	.1867	-.0190	-.0588	-.0999	-.1023	.0798	.2479	-.1506	-.1788	-.1306
90.000		.3114	.3354	.8049	.5851	.1895	-.0150	-.0542	-.0937	-.0823	.3283	.4940	-.2442	-.1735	-.0755
120.000		.3157	.3325	.8389	.6151	.2185	.0040	-.0354	-.0792	-.0839	.1139	.2065	.0186	-.0522	-.0257
135.000			.3312	.8762	.8254	.2297	.0133	-.0298	-.0730	-.0732	.1089	.1287	.0539	.2168	.0708
147.000		.3176	.3292	.8981	.8492	.2483	.0172	-.0223	-.0619	-.0709	.1265	.1231	.1890	.2323	.0839
162.000			.3330	.9141	.8624	.2788	.0376	-.0120	-.0822	-.0612	.1384	.1116	.2126	.1428	.1199
180.000	1.0033	.3127	.3386	.9384	.8107	.2546	.0458	.0109	-.0553	-.0539	.1510	.1336	.2372	.4970	.1035
198.000			.3645	.9697	.7622	.3417	.0494	.0099	-.0389	-.0498	.1443	.1162	.2323	.1231	.2193
213.000		.2857	.3879	.8494	.0000	.1408	-.0186	.0411	-.0402	-.0482	.0673	.1191	.2124	.2392	.2108
225.000			.4783	.9891	.7853	.3453	.0711	.0004	-.0332	-.0301	.1152	.1211	.0797	.1816	.1508
240.000		.2952	.3842	.9895	.8216	.2768	.0616	.0001	-.0519	-.0519	.1592	.2210	.0 59	-.0407	.0025
270.000		.3018	.3547	.9472	.6708	.2683	.0327	-.0055	-.0619	-.0605	.3216	.6769	-.2360	-.1847	-.1194
300.000		.2883	.3599	.8782	.8313	.2508	.0179	-.0198	-.0722	-.0756	.1215	.2510	-.0716	-.1713	-.1450
330.000		.2781	.3553	.8435	.5976	.0000	-.0006	-.0392	-.0883	-.0836	.0947	.0000		-.0398	-.0818

X/LT	.5528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0783	-.0332	-.0225	-.0173	-.1407
30.000	-.0835	-.0452	-.0392	-.0166	.0061	-.1550
60.000	-.0144	-.0036	-.0240	-.0173	.1785	-.1464
90.000	-.0619	-.0917	-.0513	-.0245	.0545	-.1444
120.000	.0721	.0385	-.0451	.0401	.1000	-.1430
135.000	-.0286	-.0040	-.0756	.1469	.2316	
147.000	.0258	-.0431	-.0152	.1247	.2029	-.1543
162.000	.0171	-.0533	.0306	.1220	.2975	
180.000	.0283	-.0188	-.0206	.1014	.3139	-.1662
198.000	-.0288	.0182	.0004	.0922	.3199	
213.000	-.0209	.0013	.0319	.1066	.1738	.0000
225.000	-.0019	.0549	-.0215	.1270	.2149	
240.000	.0750	.0588	.0139	.0612	.1581	-.1705
270.000	-.0489	-.0608	-.0186	.0208	.0512	-.1513
300.000	-.0049	-.0129	-.0251	-.0421	.1785	-.1503
330.000	.0000	-.0058	-.0346	-.0263	.0398	-.1543

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(3) = -2.545 BETAT (4) = 8.324

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1894	.1944	.2108	.2323	.2984	.2821	.3382	.3804	.4445	.4987
PHI															
.000	1.0039	.2049	.3558	.7849	.6487	.1887	-.0183	-.0571	-.0928	-.0990	.0653	-.0807	.0313	.0171	-.0193
30.000		.2125	.3324	.6907	.4984	.1487	-.0406	-.0811	-.1154	-.1203	.0328	.0189	-.0422	-.0224	-.0236
60.000		.2715	.3100	.5835	.4779	.1392	-.0507	-.0884	-.1223	-.1260	.0378	.1706	-.1443	-.1693	-.0842
90.000		.2840	.3183	.6277	.4825	.1383	-.0601	-.0920	-.1220	-.1217	.2361	.6332	-.2395	-.1838	-.0747
120.000		.2989	.3081	.7003	.5014	.1500	-.0404	-.0772	-.1115	-.1130	.0810	.1061	.0484	.0026	-.0583
135.000			.2992	.7502	.5245	.1792	-.0315	-.0657	-.1000	-.1050	.0517	.1031	.1100	.1742	-.0082
147.000		.2870	.2932	.7979	.5615	.2126	-.0085	-.0509	-.0935	-.0929	.0706	.0853	.1911	.2554	.0085
162.000			.2945	.8648	.6335	.2303	.0014	-.0290	-.0699	-.0806	.0881	.0834	.1807	-.0105	.0413
180.000	1.0039	.2876	.3116	.9247	.7527	.2545	.0514	-.0077	-.0470	-.0585	.1368	.0929	.2751	.5023	.0576
198.000			.3678	.9906	.8391	.3482	.0932	.0047	-.0142	-.0308	.1626	.0819	.2508	.1545	.3623
213.000		.3137	.3481	.9856	.0000	.1487	-.0200	.0634	-.0280	-.0398	.1275	.1380	.2392	.2609	.2581
225.000			.5102	1.0476	.8729	.4079	.0889	.0470	.0032	.0002	.2063	.1591	.0585	.1451	.1631
240.000		.3842	.3768	1.0727	.8937	.3557	.1103	.0545	-.0158	-.0068	.2335	.3539	.0131	-.0357	-.0095
270.000		.4023	.3655	1.0773	.7880	.3626	.0899	.0480	-.0141	-.0128	.4410	.7281	-.2258	-.1772	-.0393
300.000		.3684	.3566	1.0040	.7213	.3204	.0682	.0211	-.0388	-.0408	.1765	.3311	-.0668	-.1674	-.1209
330.000		.3196	.3382	.9244	.6372	.0000	.0221	-.0185	-.0719	-.0691	.1103	.0000		-.0855	-.1094

X/LT	.8528	.8340	.7423	.8508	.9264	.9838
PHI						
.000	.0000	-.0666	-.0593	-.0513	-.0464	-.1530
30.000	-.0783	-.0630	-.0488	-.0277	-.0048	-.1516
60.000	-.0017	-.0423	-.0373	-.0240	.1822	-.1487
90.000	-.0819	-.1235	-.0662	-.0126	.6426	-.1414
120.000	.0457	-.0113	-.0669	.0478	.0899	-.1328
135.000	-.0298	-.0755	-.0755	.0547	.1601	
147.000	-.0522	-.0659	-.0379	.0733	.1989	-.1460
162.000	-.0463	-.1011	-.0913	.0530	.2577	
180.000	-.0623	-.0574	-.0788	-.0332	.3716	-.1583
198.000	-.1045	-.1784	.0573	-.0309	.6281	
213.000	.0729	.0252	.0681	.0897	.2179	.0000
225.000	.0713	.0815	.0317	.1548	.2410	
240.000	.1351	.1085	.0524	.0896	.3416	-.1788
270.000	-.0332	-.0412	-.0952	.0338	.6904	-.1540
300.000	-.0030	-.0442	-.0739	.0097	.2219	-.1538
330.000	.0000	-.0222	-.0467	-.0494	-.0256	-.1751

ARC87-018 IAB1 LVAP(ALL)HL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(4) = -.412 BETAT (1) = -8.708

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0400	.0844	.1284	.1944	.2108	.2323	.2884	.2821	.3382	.3884	.4446	.4887
PHI															
.000	1.0804	.2141	.3586	.8458	.8880	.8218	.0040	-.0371	-.0784	-.0827	.0048	-.0588	.0094	.0327	-.0117
30.000		.3374	.3087	.9703	.8871	.2955	.0570	.0088	-.0439	-.0498	.1582	.0671	.0560	-.0817	-.0782
60.000		.3578	.3130	1.0388	.7502	.3528	.0983	.0425	-.0138	-.0158	.2155	.4872	-.0981	-.1324	-.0919
90.000		.3844	.3228	1.0735	.7838	.3781	.1106	.0553	.0017	-.0002	.5509	.6730	-.2343	-.1554	.0014
120.000		.3585	.3145	1.0372	.7635	.3462	.0961	.0448	-.0118	-.0145	.2225	.3884	-.0483	-.0782	-.0821
135.000			.2981	1.0098	.7215	.3345	.0784	.0267	-.0268	-.0252	.1950	.1336	.0255	.0333	.1148
147.000		.3438	.2888	.9836	.6953	.3138	.0588	.0162	-.0338	-.0409	.1731	.0990	.1353	.2605	.1633
162.000			.2925	.9337	.6510	.2548	.0373	-.0101	-.0803	-.0587	.1357	.0614	.2257	.2201	.1315
180.000	1.0804	.3334	.3027	.8441	.5998	.2473	.0129	-.0357	-.0830	-.0791	.1002	.0970	.2559	.4717	.0585
198.000			.3270	.7686	.7142	.2188	-.0223	-.0518	-.0994	-.1028	.0701	.0759	.1898	.0389	.2135
213.000		.3120	.3386	.5768	.0000	.0174	-.0867	-.0485	-.1069	-.0938	-.0084	.0700	.1497	.1320	.0650
225.000			.3379	.6993	.5015	.1743	-.0295	-.0892	-.1132	-.1075	.0293	.0748	.0485	.1152	-.0172
240.000		.2888	.2939	.8580	.5584	.1258	-.0585	-.0909	-.1299	-.1265	.0416	.0941	.0185	-.0117	-.0504
270.000		.2589	.3024	.5419	.4585	.1160	-.0637	-.0981	-.1342	-.1332	.1933	.5282	-.2209	-.1690	-.0120
300.000		.2441	.2985	.8401	.4853	.1405	-.0621	-.0935	-.1309	-.1265	.0303	.0621	.0011	-.1202	-.1074
330.000		.2088	.3021	.7384	.5170	.0000	-.0331	-.0692	-.1132	-.1095	.0399	.0000		-.0274	-.0103

X/LT	.5828	.6340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0548	-.0401	-.0498	-.0424	-.1354
30.000	-.0421	.0084	-.0329	-.0334	.0284	-.1542
60.000	.0221	.0110	-.0298	-.0348	.1875	-.1423
90.000	.0893	-.0734	-.1007	-.0885	.8987	-.1423
120.000	.1630	.1119	.0578	.0978	.3588	-.1440
135.000	.0473	.0514	.0738	.3158	.3849	
147.000	.0847	.0320	.0823	.1844	.4439	-.1830
162.000	.0277	.0053	.0184	.0145	.6261	
180.000	.0218	-.0744	-.0233	.0519	.4891	-.1850
198.000	.0175	-.1389	-.0302	.0584	.4541	
213.000	-.1782	-.1182	-.0594	.0250	-.0548	.0000
225.000	-.0221	-.0398	-.0587	.0385	.1300	
240.000	.0355	-.0848	-.0849	.0421	.0772	-.1317
270.000	-.0885	-.0487	-.0863	.0241	.4422	-.1354
300.000	.0195	-.0214	-.0521	-.0039	.1584	-.1373
330.000	.0000	-.0550	-.0318	-.0384	-.0023	-.1373

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(4) = -.408 BETAT (2) = -4.583

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.6714	.2108	.3442	.8347	.7580	.2252	.0091	-.0334	-.0785	-.0808	.1035	-.0530	.0138	.0513	.0119
30.000		.3178	.3211	.9231	.6717	.2796	.0422	-.0054	-.0532	-.0580	.1498	.0531	.0153	-.0370	-.0698
60.000		.3448	.3181	1.0125	.7213	.3193	.0737	.0184	-.0325	-.0338	.1871	.4581	-.1087	-.1431	-.1054
90.000		.3544	.3191	1.0478	.7445	.3317	.0780	.0315	-.0194	-.0222	.4955	.5242	-.2389	-.1728	-.0141
120.000		.3521	.3161	1.0185	.7233	.3130	.0691	.0220	-.0286	-.0346	.1947	.3904	-.0541	-.0881	-.1008
135.000			.3125	.9898	.6935	.3134	.0549	.0101	-.0381	-.0383	.1689	.1210	.0500	.0451	.0898
147.000		.3425	.3125	.9541	.6755	.2868	.0480	.0045	-.0473	-.0527	.1586	.0998	.1557	.2586	.1312
162.000			.3153	.9018	.8412	.2439	.0250	-.0180	-.0594	-.0637	.1287	.0807	.2141	.2184	.1022
180.000	1.6714	.3187	.3177	.8420	.6128	.2547	.0131	-.0341	-.0729	-.0775	.1105	.1118	.2075	.4782	.0654
198.000			.3190	.7907	.7071	.2452	-.0148	-.0407	-.0874	-.0925	.0886	.1115	.1884	.0731	.2127
213.000		.2956	.3381	.6289	.0000	.0475	-.0752	-.0315	-.0930	-.0895	.0014	.0606	.1617	.1653	.1443
225.000			.3746	.7454	.5727	.2124	-.0110	-.0723	-.0972	-.0929	.0624	.1187	.0629	.1492	.0339
240.000		.2628	.3265	.7150	.6045	.1530	-.0337	-.0742	-.1126	-.1096	.0555	.1052	.0058	-.0423	-.0528
270.000		.2666	.3173	.6452	.5218	.1442	-.0449	-.0765	-.1170	-.1186	.1951	.5966	-.2205	-.1800	-.0239
300.000		.2586	.3479	.7054	.5284	.1701	-.0416	-.0746	-.1146	-.1109	.0588	.1029	.0009	-.1264	-.1307
330.000		.2181	.3404	.7719	.5534	.0000	-.0199	-.0562	-.1016	-.0971	.0667	.0000		-.0085	-.0017

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0562	-.0352	-.0385	-.0301	-.1427
30.000	-.0542	.0056	-.0244	-.0260	.0322	-.1467
60.000	.0118	.0026	-.0187	-.0194	.1334	-.1394
90.000	-.0227	-.0936	-.0738	-.0194	.8581	-.1407
120.000	.1110	.0709	.0300	.0559	.3126	-.1430
135.000	.0220	.0175	.0162	.2802	.3585	
147.000	.0236	.0175	.0452	.1319	.3846	-.1676
162.000	.0177	-.0445	.0125	.0812	.5737	
180.000	.0121	-.0250	-.0563	.0312	.4724	-.1778
198.000	.0108	-.0702	-.0500	.0487	.4337	
213.000	-.1600	-.1206	-.0642	.0450	.0047	.0000
225.000	-.0191	-.0122	-.0602	.0553	.1555	
240.000	.0446	-.0220	-.0714	.0586	.0992	-.1351
270.000	-.0765	-.1328	-.0652	.0838	.4397	-.1404
300.000	.0203	-.0052	-.0405	-.0228	.1782	-.1424
330.000	.0000	-.0811	-.0342	-.0318	-.0003	-.1434

ARC87-019 IAB1 LVAP(ALL%L SEALED) EXTERNAL TANK (RETT37)

ALPHAT(4) = -.401 BETAT (3) = -.183

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1284	.1944	.2108	.2323	.2984	.2821	.3382	.3804	.4445	.4987
PHI															
.000	1.0000	.2816	.3820	.8729	.7773	.2380	.0130	-.0286	-.0737	-.0772	.1186	-.0523	.0181	.0755	.0380
30.000		.3025	.3501	.8775	.8347	.2435	.0199	-.0246	-.0682	-.0742	.1173	.0318	-.0119	-.0089	-.0130
60.000		.3278	.3835	.8805	.8428	.2448	.0228	-.0249	-.0708	-.0742	.1232	.2911	-.1114	-.1450	-.1336
90.000		.3384	.3492	.8862	.8479	.2451	.0188	-.0256	-.0692	-.0726	.3775	.4842	-.2348	-.2007	-.0379
120.000		.3436	.3525	.8762	.8482	.2520	.0185	-.0259	-.0892	-.0719	.1298	.2784	-.0443	-.1117	-.0567
135.000			.3509	.8868	.8383	.2507	.0202	-.0219	-.0692	-.0756	.1150	.0994	.0383	.1273	.0488
147.000		.3384	.3502	.8902	.8432	.2422	.0192	-.0275	-.0708	-.0716	.1226	.1090	.1757	.2519	.1070
162.000			.3550	.8898	.8399	.2503	.0142	-.0210	-.0715	-.0748	.1192	.0981	.1903	.0914	.0830
180.000	1.0000	.3242	.3578	.8822	.8809	.2320	.0034	-.0190	-.0692	-.0722	.1239	.0885	.2117	.5053	.1445
198.000			.3684	.8778	.7549	.2860	.0044	-.0220	-.0669	-.0752	.0881	.0805	.1751	.1039	.2537
213.000		.2939	.3839	.8353	.0000	.0853	-.0512	-.0020	-.0892	-.0756	.0275	.1066	.1745	.2203	.1741
225.000			.4459	.8776	.7119	.2778	.0231	-.0390	-.0682	-.0812	.0782	.1136	.0851	.1774	.0952
240.000		.3048	.3813	.8788	.6901	.2186	.0109	-.0351	-.0838	-.0779	.1166	.1806	-.0102	-.0774	-.0462
270.000		.3252	.3773	.8855	.6267	.2130	.0014	-.0377	-.0819	-.0813	.2702	.6572	-.2344	-.1691	-.0406
300.000		.3288	.3793	.8740	.6284	.2405	.0031	-.0331	-.0806	-.0813	.1146	.1929	-.0151	-.1313	-.1306
330.000		.3005	.3822	.8819	.6318	.0000	.0119	-.0282	-.0792	-.0768	.1060	.0000		-.0097	-.0043

X/LT	.5528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0555	-.0204	-.0140	-.0049	-.1338
30.000	-.0434	-.0161	-.0263	-.0131	-.0619	-.1458
60.000	.0072	.0016	-.0201	-.0187	.1808	-.1361
90.000	-.0493	-.1256	-.0739	-.0305	.6760	-.1358
120.000	.0381	.0393	-.0267	.0247	.3331	-.1484
135.000	-.0381	-.0069	-.0445	.2488	.2849	
147.000	.0272	-.0398	-.0204	.1512	.2578	-.1718
162.000	.0278	-.0352	-.0328	.1716	.3584	
180.000	.0180	-.0616	-.0052	.1468	.2945	-.1743
198.000	.0118	.0284	-.0276	.1108	.2580	
213.000	-.1215	-.0849	-.0134	.1147	.1322	.0000
225.000	-.0197	.0145	-.0519	.1076	.1758	
240.000	.0742	.0208	-.0305	.0880	.1778	-.1440
270.000	-.0444	-.1111	-.0483	-.0049	.6388	-.1386
300.000	.0170	.0083	-.0238	-.0095	.1814	-.1481
330.000	.0000	-.0187	-.0882	-.0122	.0181	-.1488

ARC97-01B IAS1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(4) = -.378 BETAT (4) = 4.159

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1384	.1944	.2108	.2323	.2684	.2821	.3382	.3804	.4448	.4887
PHI															
.000	1.0075	.2038	.3788	.8567	.8078	.2286	.0088	-.0338	-.0770	-.0798	.1067	-.0575	.0371	.0535	.0167
30.000		.2199	.3706	.7913	.5684	.2009	-.0089	-.0523	-.0947	-.0988	.0752	.0287	-.0164	-.0025	.0029
60.000		.2830	.3451	.7340	.5416	.1793	-.0280	-.0687	-.1055	-.1057	.0735	.1585	-.0991	-.1369	-.1393
90.000		.3141	.3425	.7023	.5380	.1701	-.0351	-.0727	-.1085	-.1080	.2952	.5890	-.2336	-.1715	-.0283
120.000		.3091	.3392	.7266	.5479	.1717	-.0312	-.0654	-.1042	-.1093	.0782	.1769	-.0201	-.0819	-.0674
135.000			.3362	.7600	.5482	.1750	-.0262	-.0654	-.1028	-.1020	.0652	.0963	.0374	.1898	.0154
147.000		.3052	.3323	.7890	.5648	.1934	-.0216	-.0562	-.0957	-.1000	.0772	.1035	.1607	.2461	.0121
162.000			.3331	.8197	.5810	.2242	-.0038	-.0490	-.0861	-.0906	.0815	.0777	.1865	.0047	.0765
180.000	1.0075	.2844	.3394	.8514	.7345	.1993	.0212	-.0270	-.0747	-.0809	.1051	.0837	.2702	.5072	.0426
198.000			.3601	.9011	.8728	.2996	.0448	-.0205	-.0481	-.0645	.1226	.0447	.2348	.1292	.2498
213.000		.2929	.3568	.9214	.0000	.1114	-.0407	.0268	-.0543	-.0615	.0759	.1062	.2083	.2392	.1976
225.000			.4614	.6897	.0480	.3344	.0479	.0078	-.0294	-.0314	.1485	.1078	.0307	.1024	.1040
240.000		.3329	.3683	1.0158	.7713	.2993	.0614	.0239	-.0451	-.0387	.1767	.2883	-.0351	-.0858	-.0589
270.000		.3382	.3723	1.0479	.7312	.3048	.0657	.0183	-.0330	-.0350	.3824	.7135	-.2397	-.1827	-.0273
300.000		.3250	.3736	1.0251	.7127	.2975	.0548	.0134	-.0407	-.0431	.1737	.3411	-.0308	-.1331	-.1180
330.000		.2887	.3674	.9559	.8689	.0000	.0344	-.0098	-.0815	-.0598	.1382	.0000		-.0290	-.0648

X/LT	.8588	.8340	.7423	.8808	.9884	.9838
PHI						
.000	.0000	-.0815	-.0370	-.0300	-.0282	-.1488
30.000	-.0517	-.0422	-.0383	-.0201	-.0182	-.1450
60.000	.0080	-.0081	-.0347	-.0284	.1874	-.1433
90.000	-.0878	-.1240	-.0808	-.0057	.6103	-.1393
120.000	.0038	-.0047	-.0802	.0722	.0938	-.1267
135.000	-.0842	-.0819	-.0983	.0994	.2052	
147.000	-.0178	-.0723	-.0344	.1037	.1556	-.1583
162.000	-.0018	-.0888	-.0358	.1014	.2403	
180.000	-.0087	-.0941	-.0714	.0787	.4028	-.1899
198.000	-.0818	-.1184	.0311	.0577	.4760	
213.000	-.0148	.0101	.0469	.0912	.1984	.0000
225.000	.0205	.0240	.0209	.1214	.2222	
240.000	.1032	.0434	.0298	.0788	.2085	-.1678
270.000	-.0310	-.0943	-.0386	.0032	.6708	-.1480
300.000	.9071	-.0047	-.0201	-.0018	.1573	-.1480
330.000	.0000	.0058	-.0188	-.0278	.0403	-.1578

ARC87-019 IAB1 LVAP(ALL HL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(4) = -.349 BETAT (5) = 8.293

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0008	.0184	.0408	.0844	.1284	.1944	.2108	.2323	.2884	.3821	.3382	.3804	.4448	.4887
PHI															
.000	1.7038	.1637	.3878	.8775	.8907	.2353	.0083	-.0388	-.0783	-.0732	.1008	-.0877	.0272	.0298	-.0110
30.000		.2112	.3408	.7504	.5383	.1825	-.0229	-.0838	-.1086	-.1020	.0805	.0277	-.0331	-.0174	-.0120
60.000		.2819	.3231	.6885	.5010	.1488	-.0485	-.0866	-.1212	-.1133	.0502	.0515	-.0981	-.1361	-.0956
90.000		.2828	.3222	.5983	.4809	.1390	-.0577	-.0925	-.1295	-.1190	.2870	.6284	-.2402	-.1111	-.0461
120.000		.2848	.3202	.6585	.5006	.1377	-.0511	-.0856	-.1222	-.1163	.0505	.1258	-.0114	-.0510	-.0763
135.000			.3120	.7081	.4983	.1472	-.0465	-.0826	-.1150	-.1097	.0376	.0853	.0721	.1844	-.0336
147.000		.2828	.3108	.7484	.5247	.1780	-.0310	-.0669	-.1124	-.1024	.0498	.0853	.1631	.2104	.0109
162.000			.3089	.7903	.5611	.1970	-.0215	-.0579	-.0920	-.0937	.0575	.0868	.1664	-.0135	.0319
180.000	1.7039	.2751	.3135	.8595	.7209	.2068	.0173	-.0376	-.0743	-.0765	.0992	.0873	.2529	.4077	.0437
198.000			.3269	.9483	.9051	.2963	.0636	-.0278	-.0379	-.0466	.1260	.0807	.2177	.1108	.3696
213.000		.3172	.3260	.9221	.0000	.0977	-.0603	.0322	-.0606	-.0632	.0959	.1103	.1989	.2029	.2349
225.000			.4639	1.0029	.8784	.3595	.0541	.0244	-.0121	-.0174	.1797	.1189	.0184	.0683	.1401
240.000		.3884	.3791	1.0498	.8523	.3359	.0797	.0385	-.0227	-.0138	.2072	.3336	-.0316	-.0779	-.0635
270.000		.3938	.3811	1.0920	.7922	.3500	.0918	.0385	-.0088	-.0085	.4372	.7438	-.2414	-.1782	-.0107
300.000		.3719	.3805	1.0583	.7608	.3493	.0830	.0335	-.0181	-.0197	.2045	.4005	-.0298	-.1323	-.1051
330.000		.3274	.3571	.9870	.6918	.0000	.0482	.0047	-.0440	-.0518	.1495	.0000		-.0487	-.0828

X/LT	.9528	.8340	.7423	.8508	.9284	.9838
PHI						
.000	.0805	-.0625	-.0483	-.0478	-.0425	-.1448
30.000	-.0841	-.0552	-.0387	-.0322	-.0024	-.1513
60.000	.0034	-.0188	-.0486	-.0328	.1738	-.1463
90.000	-.1138	-.0810	-.0808	-.0092	.6434	-.1427
120.000	.0004	-.0348	-.0735	.0622	.1286	-.1347
135.000	-.0353	-.0999	-.0886	.0672	.1935	
147.000	-.0890	-.0903	-.0581	.0780	.1822	-.1463
162.000	-.0710	-.1156	-.1220	.1055	.2473	
180.000	-.0788	-.0574	-.0854	-.0328	.3744	-.1848
198.000	-.1182	-.1862	.0337	-.0318	.6884	
213.000	.0484	.0060	.0511	.0953	.2416	.0000
225.000	.0862	.0483	.0252	.1812	.2722	
240.000	.1244	.0758	.0485	.0878	.3518	-.1983
270.000	-.0884	-.0778	-.1010	.0128	.6847	-.1528
300.000	.0087	-.0045	-.0315	-.0158	.1888	-.1516
330.000	.0000	-.0039	-.0288	-.0278	.0308	-.1701

ARC97-019 IAB1 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT37)

ALPHAT(5) = 1.781 BETAT (1) = -8.705

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1284	.1944	.2108	.2323	.2584	.2821	.3382	.3804	.4446	.4987
PHI															
.000	1.0826	.2067	.3599	.0307	.7296	.2605	.0298	-.0137	-.0617	-.0676	.1274	-.0435	.0042	.0372	.0032
30.000		.3487	.3255	1.0258	.7422	.3374	.0825	.0303	-.0226	-.0286	.1929	.0785	.0456	-.0183	-.0538
60.000		.3678	.3324	1.0780	.7909	.3776	.1115	.0554	-.0041	-.0058	.2384	.5310	-.0561	-.0943	-.0910
90.000		.3586	.3228	1.0713	.7876	.3718	.1033	.0521	-.0024	-.0085	.5247	.5830	-.2382	-.1749	-.0034
120.000		.3391	.2944	.9983	.7282	.3180	.0768	.0270	-.0268	-.0313	.1905	.3082	-.0842	-.1323	-.0508
135.000			.2785	.9542	.6778	.2820	.0514	.0025	-.0479	-.0508	.1570	.0923	-.0263	-.0252	.0674
147.000		.3245	.2725	.9167	.6457	.2726	.0263	-.0160	-.0594	-.0839	.1310	.0612	.0320	.2315	.1339
162.000			.2834	.8424	.5959	.2144	.0075	-.0360	-.0835	-.0874	.0901	.0585	.1736	.2054	.1059
180.000	1.0826	.3132	.3055	.7678	.5462	.1988	-.0196	-.0594	-.1042	-.1025	.0652	.0751	.2414	.4184	.0414
198.000			.3204	.7015	.6443	.1809	-.0474	-.0719	-.1147	-.1203	.0436	.0718	.1601	.0167	.2024
213.000		.2984	.3230	.5094	.0000	.0115	-.1016	-.0947	-.1207	-.1149	-.0259	.0453	.1360	.1257	.0759
225.000			.3253	.6483	.4948	.1588	-.0470	-.1019	-.1257	-.1213	.0183	.0718	.0620	.0967	-.0274
240.000		.2705	.2920	.5867	.5167	.1131	-.0652	-.1008	-.1371	-.1331	.0173	.1360	-.0385	-.0[illegible]	-.[illegible]
270.000		.2560	.2949	.5701	.4616	.1128	-.0685	-.0999	-.1384	-.1384	.1121	.5824	-.2334	-.1[illegible]0	.0[illegible]
300.000		.2447	.2834	.6918	.4872	.1447	-.0510	-.0848	-.1290	-.1263	.0330	.0390	.0626	-.[illegible]74	-.[illegible]
330.000		.1868	.2788	.7879	.5536	.0000	-.0180	-.0558	-.1022	-.0990	.0616	.0000		.[illegible]69	.00[illegible]

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0436	-.0297	-.0371	-.0460	-.1356
30.000	-.0453	.0159	-.0069	-.0148	.0296	-.1386
60.000	.0370	.0357	.0057	.0073	.1364	-.1372
90.000	.0982	-.0042	-.0987	-.0829	.5174	-.1409
120.000	.1693	.0889	.0605	.1090	.3863	-.1382
135.000	.0600	.0324	.0526	.3219	.3839	
147.000	.0814	.0113	.0549	.1498	.4481	-.1731
162.000	.0057	-.0075	.0007	-.0082	.6153	
180.000	.0041	-.0795	-.0325	.0744	.4716	-.1795
198.000	-.0094	-.1244	-.0207	.0544	.4351	
213.000	-.1809	-.1284	-.0437	.0378	-.0410	.0000
225.000	-.0377	-.0521	-.0437	.0521	.1428	
240.000	.0087	-.0567	-.0622	.0554	.1015	-.1358
270.000	.0235	.0001	-.0645	.0387	.2845	-.1329
300.000	.0348	-.0022	-.0510	-.0094	.0833	-.1326
330.000	.0000	-.0485	-.0243	-.0423	.0148	-.1338

ARC97-818 !AB! LVAP(ALUM. SEALED) EXTERNAL TANK (RETT37)

ALPHAT(5) = 1.774 BETAT (2) = -2.387

SECTION ( ):EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0500	.0082	.0184	.0400	.0844	.1294	.1944	.2186	.2323	.2884	.3021	.3362	.3804	.4446	.4887
PHI															
.000	:.0022	.2001	.3838	.0188	.0000	.2738	.0386	-.0050	-.0033	-.0003	.1438	-.0370	.0190	.0026	.0519
30.000		.3083	.3304	.0877	.0001	.3028	.0575	.0075	-.0431	-.0488	.1881	.0498	.0213	.0096	-.0132
60.000		.3252	.3308	.0747	.7017	.3000	.0002	.0000	-.0427	-.0456	.1717	.3727	-.0834	-.1020	-.1208
90.000		.3236	.3285	.9388	.6901	.2934	.0442	-.0011	-.0470	-.0528	.4170	.5075	-.2329	-.1756	-.0316
120.000		.3198	.3240	.0825	.6543	.2549	.0270	-.0199	-.0851	-.0853	.1388	.2987	-.0800	-.1403	-.0695
135.000			.3252	.0621	.6248	.2578	.0105	-.0298	-.0707	-.0707	.1149	.0718	.0408	.0100	.0276
147.000		.3148	.3272	.0454	.6109	.2338	.0085	-.0314	-.0798	-.0845	.1089	.0852	.1853	.2134	.0713
162.000			.3347	.0170	.5878	.1950	-.0103	-.0484	-.0855	-.0925	.0886	.0911	.1837	.1860	.0582
180.000	1.0022	.3030	.3383	.7839	.5790	.2078	-.0182	-.0559	-.0908	-.0989	.0833	.0901	.1922	.4723	.0812
198.000			.3428	.7568	.0818	.2249	-.0298	-.0559	-.0984	-.1028	.0584	.0441	.1847	.0935	.2542
213.000		.2742	.3574	.6717	.0000	.0434	-.0808	-.0401	-.0987	-.1083	-.0874	.0739	.1888	.1777	.1545
225.000			.3900	.7455	.6032	.2174	-.0182	-.0700	-.0940	-.0888	.0381	.0805	.0585	.1611	.0559
240.000		.2951	.3429	.7282	.6085	.1746	-.0268	-.0822	-.1073	-.1016	.0790	.1573	-.0571	-.1102	-.0750
270.000		.2828	.3541	.7816	.5618	.1779	-.0209	-.0582	-.1016	-.0882	.2119	.6429	-.2238	-.1543	-.0270
300.000		.2670	.3528	.8181	.5848	.2157	-.0063	-.0434	-.0905	-.0882	.0976	.1342	.0519	-.0915	-.1165
330.000		.2024	.3736	.8625	.6238	.0000	.0181	-.0238	-.0751	-.0719	.1129	.0000		.0128	.0150

X/LT	.9520	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0340	-.0181	-.0084	-.0142	-.1283
30.000	-.0317	.0082	-.0032	-.0038	.0143	-.1277
60.000	.0178	.0358	.0877	.0003	.1442	-.1237
90.000	.0488	-.0227	-.0448	-.0304	.4288	-.1244
120.000	.0381	.0413	.0040	.0502	.3584	-.1353
135.000	.0188	.0014	-.0028	.2209	.3388	
147.000	-.0034	-.0131	.0113	.1278	.4152	-.1708
162.000	.0482	-.0028	-.0087	.0783	.4035	
180.000	-.0148	-.0722	-.0831	.1342	.4421	-.1885
198.000	.0187	-.0151	-.0281	.0835	.3295	
213.000	-.1448	-.1205	-.0488	.0778	.1008	.0000
225.000	-.0172	-.0138	-.0878	.0888	.1748	
240.000	.0097	-.0105	-.0528	.0784	.1805	-.1287
270.000	.0327	-.0178	-.0502	.0885	.4381	-.1323
300.000	.0381	.0288	-.0158	-.0287	.1488	-.1323
330.000	.0000	-.0462	-.0183	-.0286	.0062	-.1387

ARC87-018 IABI LVAP(ALUM. SEALED) EXTERNAL TANK (RETT37)

ALPHAT(6) = 1.784 BETAT (3) = 2.008

SECTION : 1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2694	.2921	.3382	.3904	.4445	.4987
PHI															
.000	1.7010	.1999	.4018	.9528	.7498	.2830	.0389	-.0058	-.0554	-.0594	.1487	-.0370	.0191	.0838	.0514
30.000		.1863	.4214	.8795	.6435	.2573	.0224	-.0233	-.0689	-.0725	.1248	.0298	0157	.0144	.3191
60.000		.2724	.3519	.8468	.6117	.2234	.0047	-.0388	-.0830	-.0866	.1068	.1793	-.0515	-.0956	-.1230
90.000		.3189	.3489	.8070	.5869	.1970	-.0127	-.0530	-.0916	-.0950	.3128	.5076	-.2239	-.1726	-.0254
120.000		.3281	.3516	.7665	.5709	.1865	-.0239	-.0616	-.0995	-.1011	.0802	.2143	-.0737	-.1448	-.0449
135.000			.3539	.7675	.5626	.1878	-.0216	-.0578	-.1015	-.1064	.0679	.0784	.0307	.1 35	.0092
147.000		.3320	.3529	.7712	.5715	.1739	-.0246	-.0675	-.1002	-.1028	.0729	.1049	.1424	.2295	.0543
162.000			.3547	.7772	.5722	.1986	-.0200	-.0557	-.1035	-.1014	.0755	.0890	.1548	.1191	.0946
180.000	1.7010	.3105	.3560	.7919	.6250	.1792	-.0183	-.0448	-.0975	-.0974	.0795	.0980	.2235	.4522	.0929
198.000			.3848	.8250	.6625	.2573	-.0077	-.0458	-.0804	-.0920	.0832	.0581	.2050	.0762	.1935
213.000		.3008	.3725	.8197	.0000	.0837	-.0642	-.0122	-.0811	-.0850	.0226	.0791	.1783	.2060	.1694
225.000			.4294	.9563	.7547	.2734	.0055	-.0330	-.0681	-.0658	.0908	.0651	.0085	.0652	.0656
240.000		.3161	.3752	.1911	.6462	.2527	.0111	-.0188	-.0809	-.0752	.1218	.2223	-.0784	-.1349	-.0901
270.000		.3142	.3755	.1569	.6684	.2652	.0302	-.0125	-.0678	-.0638	.3031	.6879	-.2284	-.1890	-.0442
300.000		.3228	.3753	.9997	.6874	.3027	.0471	.0026	-.0524	-.0517	.1587	.2455	.0299	-.0963	-.1138
330.000		.2923	.3864	1.0123	.6930	.0000	.0517	.0069	-.0510	-.0469	.1607	.0000		.0055	-.0077

X/LT	.9528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0314	-.0184	-.0032	-.0140	-.1305
30.000	-.0251	-.0409	-.0120	-.0101	-.0052	-.1362
60.000	.0200	.0335	-.0118	-.0246	.1611	-.1319
90.000	.0384	.0150	-.0362	-.0121	.5131	-.1352
120.000	-.0014	.0015	-.0515	.0789	.1739	-.1239
135.000	.0131	-.0521	-.0534	.1598	.2387	
147.000	-.0142	-.0624	-.0247	.1543	.2125	-.1651
162.000	-.0108	-.0739	.0156	.1553	.2653	
180.000	-.0030	-.0439	-.0302	.1415	.2750	-.1638
198.000	-.0524	-.0409	-.0197	.1122	.2834	
213.000	-.0626	-.0386	.0281	.1240	.1880	.0000
225.000	.0114	.0048	-.0239	.1356	.2273	
240.000	.0493	.0173	.0098	.0734	.1880	-.1551
270.000	.0447	-.0250	-.0373	-.0089	.4822	-.1349
300.000	.0282	.0286	.0084	-.0048	.1517	-.1338
330.000	.0008	-.0012	-.0038	-.0108	.0378	-.1412

ARC97-019 (AS) LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(5) = 1.816 BETAT (4) = 8.284

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1294	.1744	.2106	.2323	.2584	.2821	.3382	.3884	.4445	.4987
PHI															
.000	1.8932	.1984	.4058	.9509	.9470	.2778	.0354	-.0107	-.0581	-.0878	.1418	-.0458	.0183	.0406	.0115
30.000		.1414	.3502	.8003	.5710	.2124	-.0015	-.0462	-.0804	-.0934	.0778	.0198	-.0006	.0141	.0032
60.000		.2163	.3184	.7032	.5058	.1838	-.0574	-.0766	-.1135	-.1146	.0585	.0605	-.0178	-.0881	-.1098
90.000		.2537	.3187	.6256	.4840	.1326	-.0584	-.0925	-.1254	-.1283	.2081	.6158	-.2262	-.1155	-.0149
120.000		.2706	.3154	.5810	.4790	.1280	-.0597	-.0915	-.1257	-.1287	.0373	.1763	-.0517	-.0881	-.0030
135.000			.3184	.8423	.4859	.1227	-.0584	-.0988	-.1260	-.1243	.0280	.0688	.0303	.1270	-.0489
147.000		.2723	.3081	.6758	.4982	.1442	-.0528	-.0849	-.1234	-.1230	.0358	.0811	.1424	.1821	.0817
162.000			.3094	.7223	.5185	.1888	-.0439	-.0786	-.1098	-.1138	.0300	.0761	.1332	.0072	.0220
180.000	1.8932	.2758	.3044	.7775	.8494	.1836	-.0124	-.0608	-.0957	-.1018	.0712	.0817	.2355	.3420	.0055
198.000			.2995	.8589	.5454	.2450	.0373	-.0528	-.0804	-.0710	.0991	.0857	.1987	.0965	.3224
213.000		.3180	.3021	.8401	.0000	.0488	-.0988	.0006	-.0891	-.0971	.0545	.0781	.1710	.1561	.2146
225.000			.4076	.9477	.8883	.3033	.0363	-.0007	-.0397	-.0458	.1508	.0827	-.0249	-.0109	.0868
240.000		.3777	.3801	1.0062	.7401	.3254	.0611	.0243	-.0397	-.0381	.1829	.2984	-.0646	-.1263	-.0419
270.000		.3949	.3847	1.0859	.7888	.3550	.0972	.0434	-.0198	-.0109	.4338	.7469	-.2230	-.1741	-.0050
300.000		.3933	.3903	1.0932	.7972	.3798	.1035	.0513	-.0085	-.0109	.2304	.4122	.0254	-.0911	-.0914
330.000		.3844	.3850	1.0484	.7552	.0000	.0820	.0322	-.0270	-.0252	.1928	.0000		-.0063	-.0477

X/LT	.9628	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0401	-.0385	-.0315	-.0393	-.1406
30.000	-.0444	-.0484	-.0282	-.0325	.0112	-.1410
60.000	.0238	.0043	-.0418	-.0342	.0990	-.1383
90.000	.0267	.0184	-.0487	.0825	.4142	-.1350
120.000	-.0214	-.0325	-.0652	.0894	.1669	-.1247
135.000	-.0424	-.1045	-.0973	.0897	.1834	
147.000	-.0688	-.1018	-.0702	.0973	.1827	-.1420
162.000	-.0793	-.1231	-.1255	.1010	.2379	
180.000	-.0828	-.0838	-.0915	.0360	.3452	-.1598
198.000	-.1330	-.1820	.0100	-.0345	.6231	
213.000	.0618	-.0074	.0406	.0977	.2537	.0000
225.000	.0000	:0373	.0192	.1787	.2910	
240.000	.1258	.0972	.0423	.1080	.3888	-.1330
270.000	.0801	.0108	-.0838	-.0531	.4770	-.1488
300.000	.0847	.0837	.0110	.0108	.1338	-.1373
330.000	.0000	.0075	-.0018	-.0130	.0402	-.1438

ARC97-019 IASI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(8) = 3.998 BETAT (1) = -6.682

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1284	.1944	.2106	.2323	.2884	.2821	.3382	.3804	.4445	.4887
PHI															
.000	1.0874	.2074	.4190	.9908	.8380	.3056	.0567	.0118	-.0410	-.0382	.1880	-.0249	.0201	.0484	.0235
30.000		.3753	.3700	1.0826	.7928	.3838	.1072	.0558	-.0023	-.0007	.2359	.0830	.0665	.0230	-.0197
60.000		.3855	.3811	1.1036	.8202	.4026	.1288	.0715	.0101	.0100	.2531	.5169	-.0079	-.0552	-.0711
90.000		.3549	.3259	1.0573	.7829	.3678	.1027	.0485	-.0085	-.0043	.4969	.6188	-.2285	-.1888	-.0194
120.000		.3163	.2686	.9479	.6882	.2883	.0548	.0082	-.0438	-.0405	.1538	.2390	-.1149	-.1674	-.0734
135.000			.2515	.8877	.6294	.2516	.0272	-.0194	-.0675	-.0664	.1161	.0576	-.0649	-.0730	-.0053
147.000		.3035	.2545	.8385	.5914	.2290	-.0030	-.0424	-.0852	-.0794	.0929	.0332	.0395	.1691	.0988
162.000			.2772	.7700	.5406	.1776	-.0230	-.0610	-.1046	-.1036	.0502	.0543	.1345	.2029	.0840
180.000	1.6674	.2958	.3051	.6978	.4931	.1550	-.0473	-.0833	-.1223	-.1152	.0327	.0642	.2519	.3726	.0284
198.000			.3179	.6422	.5891	.1520	-.0687	-.0905	-.1288	-.1255	.0201	.0448	.1434	.0010	.1865
213.000		.2847	.3218	.4137	.0000	-.0038	-.1160	-.0810	-.1328	-.1248	-.0312	.0234	.1256	.1112	.0490
225.000			.3224	.5545	.4403	.1393	-.0615	-.1128	-.1265	-.1228	.0029	.0648	.0408	.0768	-.0429
240.000		.2581	.2906	.4957	.4644	.1075	-.0703	-.1062	-.1365	-.1338	.0294	.0991	-.0835	-.1143	-.0724
270.000		.2090	.2775	.6159	.4558	.1095	-.0710	-.1029	-.1335	-.1298	.1005	.5345	-.2496	-.1575	.0042
300.000		.1369	.2867	.6928	.4951	.1566	-.0441	-.0803	-.1162	-.1179	.0403	.0273	.1105	-.0501	-.0593
330.000		.1142	.3845	.8542	.5972	.0000	.0038	-.0387	-.0820	-.0861	.0856	.0000		.0408	.0256

X/LT	.9528	.8340	.7423	.8508	.9264	.9838
PHI						
.000	.0000	-.0222	-.0223	-.0201	-.0242	-.1302
30.000	-.0258	.0106	.0201	.0071	.0535	-.1332
60.000	.0233	.0803	.0299	.0254	.1534	-.1269
90.000	.1188	.0788	.0318	.0126	.4530	-.1378
120.000	.0898	.0799	.0711	.1057	.4980	-.1378
138.000	.0810	.0313	.0434	.3183	.4208	
147.000	.0774	-.0085	.0348	.1584	.4917	-.1534
162.000	-.0104	-.0293	-.0024	.0251	.6632	
180.000	-.0091	-.0881	-.0498	.0981	.4891	-.1511
198.000	-.0277	-.1092	-.0123	.0706	.4458	
213.000	-.1882	-.1256	-.0231	.0641	-.0086	.0000
225.000	-.0516	-.0549	-.0188	.0863	.1766	
240.000	-.0078	-.0546	-.0338	.0898	.1335	-.1372
270.000	.0780	.0234	-.0729	.0727	.3157	-.1418
300.000	.0097	.0079	-.0421	-.0232	.1388	-.1372
330.000	.0000	-.0473	-.0175	-.0322	-.0115	-.1339

ARC97-019 IASI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(8) = 4.010 BETAT (2) = -4.543

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1284	.1944	.2108	.2323	.2804	.3881	.3382	.3884	.4446	.4907
PHI															
.000	1.6772	.2098	.3937	1.0011	.8979	.3135	.0833	.0172	-.0349	-.0483	.1783	-.0197	.0820	.0770	.0497
30.000		.3941	.3585	1.0537	.7393	.3580	.0940	.0435	-.0100	-.0186	.2173	.0856	.0845	.0277	-.0041
60.000		.3730	.3237	1.0573	.7840	.3816	.0983	.0431	-.0110	-.0130	.2208	.4342	-.0123	-.0594	-.0810
90.000		.3526	.2981	1.0151	.7274	.3246	.0674	.0185	-.0284	-.0316	.4440	.5782	-.2409	-.1829	-.0385
120.000		.3332	.2878	.9127	.6456	.2566	.0318	-.0130	-.0627	-.0870	.1241	.2352	-.1207	-.1757	-.1020
135.000			.2924	.8445	.5975	.2301	.0074	-.0353	-.0820	-.0860	.0983	.0411	-.0428	-.0719	.0123
147.000		.3181	.2984	.8009	.5678	.2184	-.0143	-.0514	-.0876	-.0947	.0798	.0523	.0777	.1942	.0742
162.000			.3110	.7487	.5309	.1644	-.0258	-.0847	-.1050	-.1057	.0540	.0741	.1417	.1918	.0700
180.000	1.6772	.3040	.3123	.6995	.5019	.1627	-.0409	-.0781	-.1137	-.1171	.0405	.0681	.2110	.3938	.0949
198.000			.3060	.6506	.6249	.1755	-.0580	-.0823	-.1183	-.1241	.0292	.0454	.1535	.0513	.2174
213.000		.2819	.3175	.4998	.0000	.0132	-.1072	-.0889	-.1218	-.1284	-.0388	.0424	.1437	.1519	.1060
225.000			.3372	.5728	.4732	.1708	-.0468	-.0957	-.1177	-.1154	-.0045	.0885	.0338	.1080	-.0116
240.000		.2658	.3116	.5708	.5210	.1300	-.0547	-.0895	-.1311	-.1277	.0329	.1225	-.0913	-.1387	-.1040
270.000		.2251	.3139	.6888	.5042	.1428	-.0452	-.0797	-.1224	-.1201	.1472	.5828	-.2483	-.1754	-.0362
300.000		.1638	.3392	.7512	.5474	.1944	-.0176	-.0542	-.1027	-.1017	.0719	.0728	.1126	-.0529	-.0758
330.000		.1176	.3918	.8989	.8323	.0000	.0205	-.0208	-.0729	-.0872	.1175	.0000		.0487	.0363

X/LT	.5[illegible]9	.6340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0114	-.0208	-.0045	-.0128	-.1240
30.000	-.0127	.0043	.0204	.0095	.0528	-.1243
60.000	.0092	.0527	.0313	.0177	.1392	-.1210
90.000	.1109	.0589	.0224	.0171	.4484	-.1293
120.000	.0867	.0444	.0425	.0770	.4656	-.1293
135.000	.0200	-.0085	.0185	.3187	.4290	
147.000	.0402	-.0018	.0234	.1746	.4356	-.1498
162.000	-.0006	-.0439	-.0016	.1801	.6188	
180.000	-.0202	-.0853	-.0848	.1608	.5532	-.1501
198.000	-.0091	-.0837	-.0180	.1002	.4422	
213.000	-.1670	-.1359	-.0226	.0953	.0585	.0000
225.000	-.0336	-.0249	-.0180	.1158	.1899	
240.000	-.0023	-.0269	-.0471	.1135	.1595	-.1306
270.000	.1122	.0385	-.0494	.0885	.3357	-.1349
300.000	-.0193	.0375	-.0203	-.0300	.1242	-.1326
330.000	.0000	-.0462	-.0101	-.0233	.0109	-.1293

ARC87-018 [A8] LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(8) = 4.013 BETAT (3) = -.181

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1844	.2108	.2323	.2594	.2821	.3382	.3904	.4446	.4987
PHI															
.000	1.8858	.1880	.4345	1.0279	1.0210	.3201	.0672	.0198	-.0352	-.0388	.1882	-.0170	.0181	.1039	.0787
30.000		.1958	.5088	1.0109	.7341	.3158	.0833	.0120	-.0378	-.0398	.1788	.0293	.0843	.0877	.0279
60.000		.2498	.3542	.9421	.6781	.2882	.0437	-.0054	-.0582	-.0583	.1458	.2087	-.0038	-.0802	-.0880
90.000		.3088	.3230	.8584	.6248	.2404	.0097	-.0387	-.0788	-.0788	.3318	.4885	-.2433	-.1873	-.0812
120.000		.3187	.3315	.7853	.5781	.1988	-.0138	-.0570	-.0994	-.0987	.0788	.2170	-.1234	-.1878	-.0504
135.000			.3335	.7850	.5530	.1930	-.0268	-.0822	-.1024	-.1060	.0833	.0379	.0244	-.0284	-.0284
147.000		.3095	.3332	.7504	.5520	.1724	-.0278	-.0668	-.1089	-.1104	.0810	.0757	.1310	.1689	.0381
162.000			.3398	.7298	.5389	.1545	-.0412	-.0735	-.1122	-.1151	.0511	.0688	.1580	.1289	.0593
180.000	1.8858	.3049	.3458	.7075	.5800	.1545	-.0468	-.0716	-.1128	-.1181	.0514	.0849	.1689	.3304	.1189
198.000			.3429	.7095	.5511	.2032	-.0458	-.0722	-.1128	-.1191	.0385	.0629	.1482	.0428	.2498
213.000		.3009	.3494	.7045	.0000	.0460	-.0888	-.0526	-.1115	-.1151	-.0187	.0777	.1448	.1607	.1140
225.000			.3882	.7460	.6793	.2019	-.0320	-.0739	-.1000	-.0960	.0388	.0563	.0057	.0348	.0417
240.000		.3125	.3578	.7869	.5682	.1989	-.0301	-.0821	-.1084	-.1057	.0745	.1715	-.1029	-.1689	-.0320
270.000		.3026	.3589	.8617	.6094	.2156	.0001	-.0414	-.0927	-.0884	.2365	.6537	-.2191	-.1859	-.0802
300.000		.2328	.3902	.9399	.6615	.2675	.0294	-.0149	-.0687	-.0693	.1297	.1774	.0947	-.0549	-.0864
330.000		.1608	.5045	1.0197	.7105	.0000	.0550	.0081	-.0468	-.0434	.1651	.0000		.0250	.0165

X/LT	.9528	.6340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0051	-.0090	.0152	.0012	-.1303
30.000	-.0015	-.0159	.0097	.0076	.0046	-.1319
60.000	-.0283	.0564	.0182	-.0022	.1468	-.1379
90.000	.0963	.0599	.0067	.0047	.3828	-.1435
120.000	.0100	.0192	-.0067	.0600	.3181	-.1309
135.000	.0100	-.0189	-.0215	.2082	.3518	
147.000	-.0041	-.0412	-.0015	.2052	.3391	-.1564
162.000	-.0247	-.0576	.0139	.1951	.3565	
180.000	-.0178	-.0931	.0248	.1853	.2428	-.1571
198.000	.0080	.0143	-.0097	.1673	.2118	
213.000	-.1483	-.0816	-.0005	.1725	.1645	.0000
225.000	-.0145	-.0094	-.0385	.1581	.1982	
240.000	.0283	.0024	-.0212	.0937	.2540	-.1352
270.000	.1163	.0548	-.0130	.0793	.3845	-.1323
300.000	-.0309	.0619	.0119	-.0182	.1481	-.1309
330.000	.0000	-.0195	.0083	-.0031	.0102	-.1362

ARC97-019 IAS1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(8) = 4.038 BETAT (4) = 4.148

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2884	.2821	.3382	.3884	.4448	.4987
PHI															
.000	1.7003	.2148	.4233	1.0194	1.0870	.3208	.0881	.8181	-.0335	-.0302	.1883	-.8177	.0277	.0834	.0587
30.000		.1084	.4488	.8105	.8494	.2858	.0344	-.0148	-.0819	-.0588	.1385	.0193	.0415	.0488	.0328
60.000		.1584	.3558	.7817	.5828	.2087	-.0054	-.0478	-.0913	-.0857	.0978	.1031	.0583	-.0578	-.0798
90.000		.2427	.3133	.7113	.5147	.1628	-.0412	-.0758	-.1118	-.1888	.2487	.5185	-.2384	-.1395	-.0080
120.000		.2718	.3232	.6366	.4939	.1388	-.0582	-.0918	-.1211	-.1138	.0384	.1778	-.1029	-.1638	-.0578
135.000			.3222	.6854	.4795	.1388	-.0528	-.0884	-.1268	-.1188	.0341	.0849	.0688	.0988	-.0397
147.000		.2885	.3183	.6127	.4988	.1235	-.0589	-.0948	-.1258	-.1195	.0285	.0598	.1382	.1935	.0015
162.000			.3268	.8592	.4959	.1552	-.0514	-.0881	-.1234	-.1172	.0245	.0558	.1433	.0443	.0785
188.000	1.7003	.2775	.3243	.7853	.6018	.1288	-.0348	-.0753	-.1152	-.1115	.0381	.0731	.2292	.3893	.0417
198.000			.3155	.7631	.5012	.2898	-.0032	-.0768	-.0884	-.0928	.0578	.0798	.1892	.1298	.2081
213.000		.3035	.3287	.7512	.0000	.0315	-.1123	-.0348	-.1847	-.1838	.0137	.0491	.1424	.1325	.1687
225.000			.3928	.8488	.7548	.2384	-.0045	-.0381	-.0638	-.0785	.0982	.0458	-.0494	-.0514	.0388
248.000		.3225	.3648	.9383	.6389	.2772	.0221	-.0178	-.0628	-.0833	.1229	.2224	-.1858	-.1685	-.0928
278.000		.3488	.3695	1.0188	.7215	.3882	.0688	.0198	-.0328	-.0335	.3568	.7187	-.2877	-.1928	-.0534
388.000		.3777	.3883	1.0888	.7726	.3539	.0878	.0384	-.0113	-.0123	.2143	.3388	.0784	-.0593	-.0828
338.000		.3448	.4145	1.0883	.7778	.0000	.0918	.0424	-.0117	-.0184	.2128	.0000		.0382	.0051

X/LT	.5828	.6348	.7423	.8588	.9284	.9838
PHI						
.000	.0888	-.0128	-.0185	.0035	-.0848	-.1287
30.000	-.0138	-.0377	-.0188	-.0145	.0284	-.1244
68.888	.0851	.0374	-.0132	-.0388	.1227	-.1515
98.888	.0824	.0688	-.0283	.1815	.3872	-.1483
128.888	-.0135	-.0148	-.0884	.1383	.1958	-.1448
135.888	-.0158	-.0898	-.0585	.1538	.2388	
147.888	-.0485	-.0858	-.0857	.1548	.1888	-.1462
162.888	-.0442	-.0878	-.0287	.1457	.2234	
188.888	-.0452	-.0798	-.0823	.1313	.3793	-.1588
198.888	-.0838	-.1847	.0118	.1887	.5148	
213.888	-.0344	-.0175	.0358	.1247	.2432	.0888
225.888	.0578	-.0884	.0818	.1818	.2787	
248.888	.0738	.0178	.0312	.0828	.3588	-.1488
278.888	.0878	.0588	.0198	.0548	.3388	-.1317
388.888	-.0148	.0485	.0342	.0278	.1318	-.1287
338.888	.0888	-.0888	.0281	.8128	.8485	-.1337

ARC97-019 IA3I LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(8) = 4.047 BETAT (5) = 8.293

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2584	.2821	.3362	.3804	.4446	.4987
PHI															
.000	1.0005	.2118	.4448	1.0149	1.1007	.3285	.0700	.0215	-.0328	-.0385	.1807	-.0246	.0203	.0547	.0318
30.000		.1086	.4257	.8894	.6183	.2458	.0187	-.0284	-.0750	-.0812	.1017	.0039	.0315	.0422	.0769
60.000		.1513	.2900	.7172	.5168	.1739	-.0318	-.0727	-.1098	-.1122	.0873	.0511	.0818	-.0536	-.0672
90.000		.2131	.2972	.6351	.4690	.1298	-.0815	-.0924	-.1253	-.1222	.1781	.5654	-.2384	-.1382	.0119
120.000		.2811	.3005	.5318	.4347	.1187	-.0734	-.1003	-.1312	-.1389	.0227	.1498	-.0941	-.1385	-.0656
135.000			.3051	.5411	.4380	.1099	-.0704	-.1049	-.1332	-.1345	.0144	.0687	.0233	.1016	-.0728
147.000		.2890	.3045	.5910	.4581	.1043	-.0753	-.1019	-.1345	-.1328	.0217	.0572	.1246	.1721	.0207
162.000			.3001	.8514	.4677	.1370	-.0652	-.0956	-.1244	-.1299	.0081	.0562	.1154	-.0044	.0086
180.000	1.0005	.2828	.2955	.7149	.5820	.1285	-.0409	-.0825	-.1155	-.1202	.0378	.0680	.2233	.3059	-.0192
198.000			.2817	.7923	.4789	.2004	.0025	-.0799	-.0855	-.0882	.0600	.0720	.1767	.0688	.3353
213.000		.3291	.2873	.7567	.0000	-.0015	-.1184	-.0331	-.1108	-.1202	.0220	.0621	.1331	.1193	.1768
225.000			.3683	.9027	.7827	.2402	.0148	-.0224	-.0659	-.0705	.1188	.0457	-.0687	-.0809	-.0038
240.000		.3731	.3698	.9725	.6812	.3108	.0458	-.0011	-.0555	-.0539	.1500	.2324	-.1001	-.1613	-.0737
270.000		.4014	.3833	1.0787	.7817	.3549	.0951	.0424	-.0208	-.0188	.4144	.7459	-.2002	-.1871	-.0284
300.000		.4139	.3878	1.1189	.8252	.4024	.1207	.0669	.0002	.0002	.2518	.4267	.0783	-.0538	-.0715
330.000		.3840	.4056	1.1004	.8035	.0000	.1121	.0639	-.0038	-.0081	.2293	.0000		.0383	-.0141

X/LT	.9528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0190	-.0240	-.0131	-.0218	-.1358
30.000	-.0246	-.0419	-.0185	-.0301	-.0145	-.1297
60.000	.0025	.0159	-.0283	-.0373	.1112	-.1515
90.000	.0852	.0388	-.0434	.1076	.3526	-.1482
120.000	-.0236	-.0332	-.0575	.1354	.1949	-.1432
135.000	-.0484	-.1110	-.0978	.1292	.2203	
147.000	-.0841	-.0988	-.0572	.1406	.1812	-.1489
162.000	-.0870	-.1336	-.1020	.1230	.2536	
180.000	-.0929	-.0667	-.0899	.0900	.3408	-.1604
198.000	-.1419	-.1857	-.0008	.0154	.6831	
213.000	.0692	-.0155	.0402	.1282	.3020	.0000
225.000	.0996	.0334	.0203	.2153	.3246	
240.000	.0682	.0482	.0569	.0922	.4360	-.1393
270.000	.0924	.0737	.0294	.0575	.3456	-.1416
300.000	.0104	.0448	.0363	.0295	.1319	-.1442
330.000	.0000	.0029	.0219	.0075	.0482	-.1419

ARC87-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT37)

ALPHAT(7) = 0.000 BETAT (1) = -4.818

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0400	.0844	.1294	.1944	.2108	.2323	.2804	.3002	.3382	.3804	.4448	.4887
PHI															
.000	1.0750	.1834	.3006	1.0471	.9458	.3634	.0878	.0462	-.0108	-.0176	.2100	.0024	.0401	.0814	.0748
30.000		.2205	.5000	1.0026	.8018	.4818	.1226	.0001	.0103	.0072	.2001	.0058	.0006	.0514	.0200
60.000		.3205	.3052	1.0020	.7916	.3840	.1119	.0503	-.0024	-.0026	.2373	.4125	.0301	-.0194	-.0337
90.000		.3314	.2701	.9701	.7105	.3203	.0626	.0140	-.0331	-.0300	.4416	.0575	-.2427	-.1702	-.1524
120.000		.3044	.2410	.8453	.6071	.2308	.0117	-.0320	-.0770	-.0015	.0003	.1603	-.1671	-.2025	-.1205
135.000			.2535	.7753	.5517	.1005	-.0139	-.0549	-.0006	-.1039	.0609	.0092	-.0056	-.1220	-.0219
147.000		.2002	.2729	.7310	.5104	.1770	-.0401	-.0750	-.1100	-.1132	.0450	.0307	.0424	.1347	.0450
162.000			.2052	.6760	.4700	.1334	-.0513	-.0041	-.1230	-.1255	.0245	.0014	.1039	.1052	.0500
180.000	1.0750	.2004	.2000	.6299	.4545	.1202	-.0041	-.0950	-.1206	-.1345	.0136	.0417	.2311	.3325	.0311
198.000			.2995	.5055	.5073	.1449	-.0702	-.0000	-.1206	-.1349	.0001	.0427	.1334	-.0044	.2105
213.000		.2033	.3113	.4503	.0000	-.0005	-.1100	-.0015	-.1335	-.1430	-.0435	.0400	.1403	.1321	.1109
225.000			.3244	.4700	.4493	.1405	-.0057	-.1054	-.1295	-.1202	-.0000	.0490	.0032	.0314	-.0310
240.000		.2540	.2933	.5517	.5020	.1000	-.0723	-.0002	-.1410	-.1355	.0100	.1111	-.1300	-.1703	-.0073
270.000		.2205	.2020	.0005	.4702	.1303	-.0400	-.0005	-.1235	-.1245	.1310	.5540	-.2333	-.1040	-.1272
300.000		.1000	.2700	.7000	.5030	.2000	-.0073	-.0402	-.0050	-.0000	.0751	.0005	.1072	-.0000	-.0300
330.000		.1301	.4032	.0440	.0730	.0000	.0435	.0010	-.0545	-.0534	.1401	.0000		.0007	.0500

X/LT	.5520	.0340	.7423	.0500	.0204	.0030
PHI						
.000	.0000	.0140	-.0040	.0120	.0055	-.1270
30.000	.0170	.0207	.0371	.0200	.0210	-.1271
60.000	-.0005	.0500	.0500	.0329	.2170	-.1205
90.000	.0021	.0004	.0437	.0532	.5200	-.1334
120.000	.0130	.0340	.0227	.1004	.4130	-.1201
135.000	-.0254	.0110	.0070	.3343	.4021	
147.000	.0250	-.0075	.0300	.2075	.5000	-.1433
162.000	.0040	-.0430	.0077	.2320	.0100	
180.000	-.0320	-.0712	-.0402	.2575	.5171	-.1443
190.000	-.0210	-.0013	.0000	.1450	.4344	
213.000	-.1700	-.1345	.0035	.1355	.0000	.0000
225.000	-.0520	-.0220	.0015	.1500	.2133	
240.000	-.0200	-.0240	-.0312	.1542	.2002	-.1270
270.000	.1270	.0542	-.0000	.1100	.4410	-.1301
300.000	-.0044	.0522	-.0003	-.0202	.1470	-.1300
330.000	.0000	-.0230	.0050	-.0135	-.0055	-.1300

ARC87-019 IA81 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT37)

ALPHAT(7) = 6.256 BETAT (2) = -2.338

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3388	.3804	.4446	.4887
PHI															
.000	1.8613	.1869	.4687	1.0748	.9867	.3837	.0978	.0487	-.0078	-.0125	.2298	.0043	.0348	.1156	.0983
30.000		.1581	.9206	1.0855	.7895	.3771	.1092	.0556	-.0026	-.0071	.2328	.0586	.0955	.0545	.0391
60.000		.2455	.3977	1.0160	.7437	.3450	.0954	.0314	-.0252	-.0285	.1953	.2861	.0455	-.0224	-.0401
90.000		.2991	.2754	.9307	.6656	.2751	.0317	-.0113	-.0578	-.0561	.3780	.5217	-.2482	-.1869	-.1386
120.000		.3218	.2886	.7856	.5747	.1964	-.0113	-.0498	-.0929	-.0944	.0684	.1688	-.1647	-.2152	-.1549
135.000			.3027	.7378	.5295	.1755	-.0319	-.0719	-.1102	-.1101	.0489	.0136	-.0482	-.1081	-.0591
147.000		.3037	.3053	.7063	.5061	.1589	-.0434	-.0785	-.1155	-.1204	.0321	.0580	.0645	.1258	.0221
162.000			.3145	.6838	.4841	.1242	-.0578	-.0890	-.1249	-.1277	.0219	.0409	.1376	.1455	.0181
180.000	1.8913	.2955	.3167	.6083	.5009	.1190	-.0687	-.0948	-.1298	-.1304	.0278	.0560	.1566	.3107	.0774
198.000			.3236	.5476	.4528	.1579	-.0693	-.0929	-.1285	-.1340	.0152	.0537	.1356	.0463	.2337
213.000		.2777	.3295	.5373	.0000	.0132	-.1113	-.0749	-.1272	-.1307	-.0376	.0540	.1205	.1290	.0849
225.000			.3492	.5806	.5776	.1566	-.0591	-.0975	-.1184	-.1124	.0040	.0405	-.0171	.0060	.0077
240.000		.2628	.3259	.8547	.4745	.1455	-.0569	-.0847	-.1270	-.1224	.0341	.1343	-.1396	-.1948	-.0352
270.000		.2084	.3338	.7529	.5208	.1804	-.0286	-.0515	-.1024	-.1057	.1748	.5986	-.2148	-.1798	-.1618
300.000		.1216	.3633	.8696	.6119	.2451	.0160	-.0229	-.0731	-.0714	.1150	.1428	.1639	-.0103	-.0460
330.000		.1081	.4868	.9951	.7150	.0000	.0632	.0180	-.0374	-.0360	.1755	.0000		.0656	.0604

X/LT	.9528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	.0205	.0020	.0258	.0153	-.1267
30.000	.0215	.0172	.0315	.0301	.0186	-.1353
60.000	-.0089	.0604	.0509	.0248	.2008	-.1214
90.000	.0806	.0735	.0315	.0242	.4926	-.1284
120.000	.0259	.0364	.0177	.1001	.3918	-.1373
135.000	-.0115	-.0184	-.0164	.2923	.4211	
147.000	.0189	-.0275	.0171	.1939	.4409	-.1647
162.000	-.0066	-.0738	-.0013	.1367	.5407	
180.000	-.0413	-.1069	.0382	.1713	.4995	-.1818
198.000	-.0203	-.0505	.0105	.1429	.3238	
213.000	-.1654	-.1214	.0075	.1426	.1671	.0000
225.000	-.0409	-.0141	-.0157	.1647	.2184	
240.000	-.0034	-.0075	-.0324	.1584	.2274	-.1241
270.000	.1228	.0798	-.0327	.1347	.4564	-.1267
300.000	-.0056	.0712	.0157	-.0234	.1564	-.1271
330.000	.0000	-.0105	.0163	.0006	.0038	-.1294

ARC87-019 IAB1 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT37)

ALPHAT(7) = 8.252 BETAT (3) = -.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0894	.1294	.1944	.2108	.2323	.2584	.2821	.3382	.3804	.4445	.4887
PHI															
.000	1.0079	.1510	.5437	1.0814	1.0445	.3741	.0988	.0481	-.0058	-.0148	.2295	.0090	.0341	.1186	.1047
30.000		.1385	.5421	1.0482	.7894	.3575	.0894	.0358	-.0158	-.0205	.2156	.0377	.0933	.0685	.0481
60.000		.1042	.4500	.9585	.7045	.3062	.0555	.0081	-.0450	-.0489	.1585	.1978	.0601	-.0238	-.0363
90.000		.2566	.2941	.8525	.6079	.2341	.0041	-.0379	-.0780	-.0819	.3095	.4812	-.2479	-.1577	-.1079
120.000		.3013	.3043	.7385	.5345	.1724	-.0294	-.0691	-.1068	-.1122	.0443	.1590	-.1605	-.2116	-.1007
135.000			.3158	.7013	.5015	.1573	-.0461	-.0803	-.1143	-.1189	.0364	.0184	-.0119	-.0721	-.0448
147.000		.3079	.3188	.6740	.4986	.1391	-.0504	-.0858	-.1199	-.1256	.0311	.0824	.1124	.1367	.0134
162.000			.3268	.6345	.4837	.1257	-.0616	-.0908	-.1281	-.1289	.0288	.0483	.1193	.1006	.0507
180.000	1.0079	.2944	.3305	.5830	.5266	.1218	-.0648	-.0872	-.1281	-.1322	.0268	.0535	.1574	.2500	.0814
198.000			.3291	.5978	.4378	.1733	-.0645	-.0914	-.1248	-.1346	.0186	.0456	.1512	.0120	.2201
213.000		.2948	.3341	.5886	.0000	.0156	-.1121	-.0708	-.1257	-.1309	-.0306	.0588	.1203	.1279	.0952
225.000			.3629	.6771	.8356	.1635	-.0583	-.0859	-.1136	-.1119	.0249	.0243	-.0471	-.0258	-.0042
240.000		.3108	.3534	.7374	.5177	.1758	-.0412	-.0725	-.1169	-.1156	.0440	.1433	-.1478	-.2047	-.0742
270.000		.2507	.3448	.8505	.5948	.2190	-.0110	-.0444	-.0909	-.0895	.2123	.6350	-.1919	-.1860	-.1560
300.000		.1553	.4730	.9480	.6864	.2873	.0435	-.0006	-.0572	-.0595	.1440	.1860	.1564	-.0121	-.0484
330.000		.1385	.5088	1.0448	.7620	.0000	.0798	.0337	-.0255	-.0223	.1991	.0000		.0566	.0529

X/LT	.5528	.6340	.7423	.8506	.9284	.9839
PHI						
.000	.0000	.0281	.0051	.0314	.0178	-.1245
30.000	.0228	.0097	.0258	.0229	.0085	-.1321
60.000	-.0063	.0810	.0379	.0105	.1955	-.1209
90.000	.0761	.0773	.0045	.0585	.4975	-.1215
120.000	.0084	.0058	-.0027	.1207	.3002	-.1245
135.000	.0048	-.0279	-.0152	.2448	.3679	
147.000	-.0184	-.0408	.0078	.2577	.3719	-.1854
162.000	-.0445	-.0585	.0484	.2302	.3485	
180.000	-.0337	-.0982	.0278	.2204	.2435	-.1818
198.000	-.0017	-.0031	.0176	.2001	.2082	
213.000	-.1579	-.0808	.0183	.2018	.1935	.0000
225.000	-.0286	-.0237	-.0095	.1922	.2222	
240.000	.0958	.0055	-.0194	.1418	.2518	-.1298
270.000	.1887	.0782	-.0151	.1345	.4047	-.1295
300.000	-.0083	.0710	.0275	-.0878	.1832	-.1258
330.000	.0000	.0041	.0278	.0108	.0129	-.1304

ARC97-019 IASI LVAP(ALLML SEALED) EXTERNAL TANK (RETT37)

ALPHAT(7) = 8.288 BETAT (4) = 2.020

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.0000	.1605	.5216	1.0876	1.0727	.3643	.0990	.0494	-.0097	-.0135	.2282	.0040	.0346	.1144	.0978
30.000		.1025	.5244	.9995	.7618	.3260	.0698	.0175	-.0346	-.0379	.1815	.0182	.0862	.0747	.0612
60.000		.1078	.3872	.8807	.6390	.2583	.0211	-.0229	-.0709	-.0725	.1227	.1485	.0868	-.0181	-.0274
90.000		.1855	.3000	.7560	.5526	.1817	-.0223	-.0617	-.1014	-.1022	.2376	.4526	-.2489	-.1451	-.1161
120.000		.2678	.2938	.6732	.4905	.1346	-.0518	-.0890	-.1257	-.1249	.0228	.1401	-.1546	-.2113	-.0118
135.000			.3063	.6357	.4734	.1327	-.0656	-.0982	-.1293	-.1292	.0225	.0222	.0231	-.0106	-.0526
147.000		.2859	.3112	.6111	.4720	.1189	-.0847	-.1008	-.1342	-.1222	.0195	.0573	.1188	.1737	-.0121
162.000			.3206	.5595	.4625	.1209	-.0863	-.0972	-.1339	-.1342	.0202	.0567	.1022	.0537	.0481
180.000	1.0000	.2829	.3203	.5795	.5407	.1117	-.0807	-.0916	-.1319	-.1329	.0169	.0369	.2000	.3124	.0376
198.000			.3209	.6803	.4555	.1739	-.0463	-.0975	-.1158	-.1259	.0215	.0373	.1445	.0924	.1789
213.000		.3072	.3216	.6367	.0000	.0094	-.1186	-.0634	-.1227	-.1299	-.0225	.0310	.1153	.1098	.0978
225.000			.3603	.7334	.6743	.1749	-.0430	-.0696	-.1009	-.1059	.0430	.0084	-.0782	-.0798	.0111
240.000		.3217	.3423	.7981	.5555	.2082	-.0173	-.0555	-.1012	-.1029	.0645	.1592	-.1510	-.2014	-.1442
270.000		.3059	.3258	.9337	.6506	.2848	.0224	-.0195	-.0692	-.0719	.2892	.6648	-.1844	-.1857	-.1588
300.000		.2474	.4172	1.0083	.7344	.3371	.0753	.0257	-.0335	-.0372	.1789	.2482	.1413	-.0187	-.0503
330.000		.1831	.8722	1.0730	.7889	.0000	.1010	.0513	-.0092	-.0093	.2278	.0000		.0481	.0381

X/LT	.6528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	.0233	.0008	.0271	.0148	-.1275
30.000	.0237	.0008	.0163	.0088	.0028	-.1318
60.000	-.0015	.0826	.0186	-.0056	.1569	-.1252
90.000	.0889	.0895	-.0153	.1370	.5098	-.1288
120.000	-.0285	-.0090	-.0199	.1547	.2669	-.1219
135.000	-.0187	-.0469	-.0185	.2538	.2852	
147.000	-.0445	-.0540	.0388	.2293	.2609	-.1586
162.000	-.0438	-.0954	.0379	.2188	.2648	
180.000	-.0458	-.0744	.0193	.2103	.2779	-.1576
198.000	-.0884	-.0842	.0118	.1612	.3586	
213.000	-.0708	-.0409	.0284	.1707	.2749	.0000
225.000	.0887	-.0103	-.0098	.1842	.2956	
240.000	.0182	.0071	.0141	.1299	.2849	-.1292
270.000	.0788	.0875	.0108	.0288	.5887	-.1246
300.000	-.0886	.0583	.0481	.0132	.1948	-.1272
330.000	.0000	.0156	.0288	.0252	.0227	-.1371

ARC87-019 IAS1 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT37)

ALPHAT(7) = 6.000 BETAT (5) = 4.182

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2884	.2881	.3382	.3804	.4446	.4887
PHI															
.000	1.7814	.1809	.4948	1.0738	1.1085	.3888	.0882	.0490	-.0050	-.0106	.2894	.0081	.0413	.0999	.0839
30.000		.1094	.4871	.9539	.7174	.3026	.0588	.0087	-.0435	-.0472	.1595	.0111	.0718	.0760	.0620
60.000		.1222	.2984	.8089	.8520	.2250	.0018	-.0394	-.0850	-.0884	.1008	.1024	.1217	-.0166	-.0130
90.000		.1957	.2859	.8033	.4983	.1569	-.0423	-.0780	-.1144	-.1104	.2386	.4629	-.2480	-.1286	-.1171
120.000		.2390	.2915	.8003	.4558	.1142	-.0682	-.1006	-.1330	-.1303	.0151	.1411	-.1406	-.1981	-.0509
135.000			.3037	.9529	.4308	.1149	-.0711	-.1022	-.1356	-.1343	.0151	.0393	.0370	.0426	-.0642
147.000		.2676	.3073	.5198	.4289	.1057	-.0714	-.1055	-.1383	-.1388	.0279	.0620	.1175	.1811	-.0036
162.000			.3122	.5360	.4394	.1188	-.0701	-.1013	-.1356	-.1360	.0104	.0580	.1117	.0298	.0748
180.000	1.7814	.2805	.3093	.6082	.5391	.1002	-.0583	-.0971	-.1317	-.1333	.0157	.0584	.2086	.3228	.0203
198.000			.3001	.6080	.4427	.1650	-.0259	-.0974	-.1046	-.1127	.0207	.0620	.1703	.0839	.1925
213.000		.3079	.3037	.6725	.0000	-.0142	-.1343	-.0824	-.1278	-.1333	-.0140	.0436	.1097	.0798	.1185
225.000			.3556	.7928	.6993	.1885	-.0269	-.0549	-.0927	-.0944	.0878	.0124	-.0903	-.1230	-.0443
240.000		.3388	.3582	.8748	.8000	.2485	.0078	-.0337	-.0808	-.0838	.0902	.1726	-.1482	-.1951	-.1487
270.000		.3883	.3302	1.0018	.7112	.3098	.0581	.0168	-.0395	-.0422	.3524	.6856	-.1777	-.1794	-.1481
300.000		.3118	.4125	1.0886	.7945	.3788	.1078	.0568	-.0033	-.0070	.2311	.3516	.1281	-.0178	-.0489
330.000		.2082	.7850	1.1008	.8249	.0000	.1229	.0685	.0070	.0068	.2489	.0000		.0526	.0384

X/LT	.8888	.8340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	.0188	-.0023	.0219	.0087	-.1378
30.000	.0158	-.0121	.0059	-.0018	-.0030	-.1376
60.000	-.0027	.0531	.0036	-.0150	.1490	-.1357
90.000	.1098	.0829	-.0384	.1446	.4504	-.1340
120.000	-.0200	-.0058	-.0410	.1713	.2182	-.1248
135.000	-.0200	-.0911	-.0184	.1886	.2431	
147.000	-.0594	-.0882	.0252	.1899	.2088	-.1383
162.000	-.0389	-.1147	-.0016	.1811	.2122	
180.000	-.0500	-.0878	-.0887	.1814	.3359	-.1848
198.000	-.0842	-.1008	.0082	.1418	.5457	
213.000	-.0288	-.0193	.0323	.1586	.2946	.0000
225.000	.0518	.0010	.0007	.1945	.3199	
240.000	.0224	.0121	.0372	.1024	.3605	-.1347
270.000	.0806	.0560	.0206	.0203	.6285	-.1281
300.000	-.0058	.0478	.0548	.0358	.2172	-.1284
330.000	.0000	.0147	.0385	.0280	.0312	-.1488

ARC87-018 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38) (30 JAN 78)

REFERENCE DATA

SREF = 8888.8888 SQ.FT. XMRP = 876.8888 IN. XT
LREF = 1887.8888 INCHES YMRP = .8888 IN. YT
BREF = 1887.8888 INCHES ZMRP = 488.8888 IN. ZT
SCALE = .8388 SCALE

PARAMETRIC DATA

MACH = 2.588 RN/FT = 2.588
ELV-IB = 8.888 ELV-OB = -4.888
RUDDER = .888 SPOBRK = .888

ALPHAT(1) = -8.886 BETAT (1) = -4.128

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.8888	.8882	.8184	.8488	.8844	.1284	.1844	.2188	.2323	.2584	.2821	.3382	.3884	.4448	.4987
PHI															
.888	1.7738	.1784	.2538	.8338	.4884	.1218	-.8438	-.8781	-.1848	-.1892	.8837	-.8818	-.8883	.8188	-.8288
38.888		.2348	.2385	.7183	.4788	.1825	-.8289	-.8572	-.8888	-.8984	.8277	-.8178	-.8285	-.1114	-.1174
68.888		.2483	.2885	.8344	.5821	.2287	.8234	-.8183	-.8881	-.8673	.8883	.2383	-.1525	-.1892	-.1598
98.888		.2613	.2482	.8882	.6887	.3131	.8731	.8288	-.8228	-.8275	.3881	.6283	-.1488	-.1248	-.1285
128.888		.3828	.3273	1.8719	.7878	.3788	.1185	.8875	.8188	.8858	.2188	.2613	.1252	.8232	.8788
135.888			.3452	1.8953	.8852	.3871	.1382	.8838	.8244	.8152	.2288	.2233	.1828	.2356	.2224
147.888		.3283	.3468	1.1838	.8221	.4838	.1488	.8871	.8244	.8158	.2498	.8922	.2398	.3331	.2483
162.888			.3398	1.8948	.8118	.3981	.1214	.8788	.8272	.8123	.2393	.8271	.2823	.3275	.1758
188.888	1.7888	.3384	.3258	1.8884	.7887	.3821	.1127	.8578	.8158	.8883	.2287	.8173	.2472	.6788	.1745
198.888			.3166	1.8219	.9813	.3728	.8794	.8488	-.8892	-.8148	.1942	.8243	.2378	.1277	.3266
213.888		.3188	.3565	.7848	.8888	.8955	-.8118	.8547	-.8235	-.8872	.8778	.8675	.2328	.2153	.2218
225.888			.3744	.9721	.6388	.2825	.8682	-.8822	-.8328	-.8289	.1899	.1258	.8884	.2283	.1221
248.888		.2434	.2198	.8147	.6483	.2857	.8185	-.8172	-.8838	-.8666	.8778	.1883	.1711	.1278	.8759
278.888		.2195	.2299	.7812	.4887	.1598	-.8253	-.8558	-.8947	-.8936	.8877	.7253	-.1758	-.1268	-.8869
388.888		.2838	.2481	.5932	.4483	.1284	-.8435	-.8717	-.1882	-.1183	.8132	.8693	-.8888	-.1818	-.1684
338.888		.2882	.2481	.4933	.4158	.8888	-.8498	-.8788	-.1124	-.1118	.8138	.8888		-.8238	-.8324

X/LT	.8888	.8348	.7423	.8588	.9284	.9838
PHI						
.888	.8888	-.8872	-.8843	-.8541	-.8288	-.1328
38.888	-.8878	-.8498	-.8584	-.8436	-.8527	-.1528
68.888	-.8884	-.8488	-.8566	-.8335	.8917	-.1461
98.888	.8238	-.8828	-.8573	-.8281	.8849	-.1411
128.888	.8418	.1412	.8883	.8791	.2218	-.1428
135.888	.8522	.8914	.8488	.3283	.3891	
147.888	.8842	.8888	.8479	.1858	.4148	-.1788
162.888	.1148	.8283	.8235	.8731	.5248	
188.888	.1885	.8872	-.8314	.8585	.4787	-.1744
198.888	.1183	.8777	.8868	.8841	.4213	
213.888	-.8727	-.8483	-.8111	.8623	.8888	.8888
225.888	.8438	.8717	-.8183	.8817	.1819	
248.888	.1263	.8885	-.8852	.8587	.8918	-.1488
278.888	-.8111	-.8688	-.8187	-.8274	.3838	-.1388
388.888	-.1288	-.1881	-.8388	-.8852	.1178	-.1387
338.888	.8888	-.8748	-.8733	-.8345	-.8135	-.1443

ARC07-019 (A01 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(1) = -0.000 BETAT (2) = -1.040

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0400	.0844	.1254	.1944	.2108	.2383	.2884	.3881	.3382	.3884	.4446	.4887
PHI															
.000	1.7577	.2128	.2948	.0000	.0485	.1284	-.0488	-.0788	-.1068	-.1118	.0002	-.0887	.0000	.0344	.0035
30.000		.2385	.2524	.0843	.4875	.1408	-.0882	-.0884	-.0000	-.1032	.0174	-.0217	-.0081	-.0887	-.1009
60.000		.2488	.2329	.7700	.8588	.1945	-.0011	-.0420	-.0781	-.0810	.0000	.2048	-.1584	-.1901	-.1808
90.000		.2583	.2102	.9027	.6438	.2833	.0384	-.0048	-.0473	-.0525	.2020	.5752	-.1550	-.1198	-.1198
120.000		.2717	.2752	1.0295	.7384	.3287	.0824	.0370	-.0139	-.0210	.1780	.2071	.1358	.0281	.0784
135.000			.3038	1.0748	.7844	.3824	.1033	.0541	.0004	-.0071	.1953	.1980	.1088	.2756	.1848
147.000		.2883	.3157	1.0946	.7889	.3714	.1138	.0583	.0063	.0038	.2185	.0701	.0253	.3039	.2022
162.000			.3152	1.1027	.7939	.3801	.1120	.0711	.0147	.0014	.2280	.0180	.2522	.2083	.1598
180.000	1.7577	.3408	.3072	1.0884	.8285	.3718	.1068	.0841	.0182	-.0015	.2227	.0128	.3021	.8222	.2053
198.000			.3086	1.0529	.8983	.3823	.0838	.0608	-.0069	-.0110	.1988	.0250	.2630	.1070	.3017
213.000		.3888	.3637	.8182	.0000	.1407	.0097	.0873	-.0142	-.0039	.0858	.0732	.2288	.2271	.2659
225.000			.4184	.9733	.8988	.3315	.0824	.0105	-.0234	-.0185	.1320	.1425	.0906	.2478	.1594
240.000		.2280	.2657	.8887	.7314	.2421	.0363	-.0058	-.0500	-.0500	.1028	.1232	.1870	.1085	.0798
270.000		.2203	.2371	.7752	.5527	.1872	-.0088	-.0411	-.0833	-.0830	.1141	.7447	-.1531	-.1377	-.0911
300.000		.2185	.2488	.6858	.4833	.1480	-.0374	-.0837	-.1014	-.0986	.0212	.1037	-.0892	-.1832	-.1652
330.000		.2217	.2628	.5949	.4566	.0000	-.0482	-.0773	-.1128	-.1103	.0038	.0000		-.0403	-.0472

X/LT	.9888	.8340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0848	-.0881	-.0437	-.0[illegible]9	-.1334
30.000	-.0000	-.0218	-.0843	-.0378	-.0200	-.1438
60.000	-.1254	-.0804	-.0437	-.0295	.0488	-.1377
90.000	.0000	-.0147	-.0718	-.0301	.0183	-.1352
120.000	.0238	.1229	.0460	.0588	.2747	-.1448
135.000	.0346	.0719	.0138	.2458	.3305	
147.000	.0812	.0272	.0383	.1438	.3584	-.1784
162.000	.1888	.0198	.0848	.0882	.4588	
180.000	.1132	.0468	-.0552	.1161	.4125	-.1874
198.000	.0872	.1285	.0358	.0882	.3888	
213.000	-.0881	-.0188	.0000	.0875	.0778	.0000
225.000	.0488	.0831	-.0214	.0873	.1732	
240.000	.1388	.0775	.0148	.0488	.1302	-.1488
270.000	-.0813	-.0343	-.0482	-.0242	.4829	-.1348
300.000	-.1446	-.1111	-.0284	-.0256	.0788	-.1388
330.000	.0000	-.0488	-.0787	-.0324	-.0188	-.1457

ARC97-019 1AB1 LVAP(ALL HL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(1) = -8.000 BETAT (3) = .234

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0460	.0644	.1294	.1944	.2108	.2325	.2584	.2821	.3362	.3804	.4445	.4987
PHI															
.000	1.7480	.2214	.2858	.8467	.8428	.1272	-.0454	-.0788	-.1088	-.1140	.0140	-.0883	.0159	-.1410	.0050
30.000		.2394	.2589	.8404	.4861	.1310	-.0395	-.0781	-.1045	-.1108	.0091	-.0191	-.0615	-.0945	-.0747
60.000		.2403	.2480	.7115	.5087	.1648	-.0221	-.0610	-.0923	-.0884	.0309	.1625	-.1588	-.1311	-.1578
90.000		.2533	.2274	.8154	.5795	.2197	.0075	-.0303	-.0658	-.0735	.2410	.5272	-.1679	-.1182	-.1133
120.000		.2669	.2344	.9463	.6727	.2803	.0543	.0113	-.0334	-.0437	.1354	.1601	.1461	.0340	.0666
135.000			.2494	1.0195	.7124	.3172	.0763	.0298	-.0188	-.0256	.1611	.1734	.1058	.2797	.1630
147.000		.2970	.2617	1.0956	.7485	.3412	.0875	.0407	-.0035	-.0131	.1903	.0533	.2202	.2852	.1734
162.000			.2804	1.0768	.7734	.3648	.1071	.0620	.0031	-.0011	.2089	.0096	.2388	.1394	.1915
180.000	1.7480	.3236	.3023	1.0807	.8975	.3817	.1025	.0759	.0143	.0039	.2251	.0162	.2681	.6740	.2110
198.000			.3310	1.0688	.8680	.4215	.0934	.0704	.0084	.0021	.2037	.0358	.2120	.1411	.2893
213.000		.2705	.4028	.9038	.0000	.1745	.0253	.0832	.0073	.0018	.1020	.1307	.2291	.2448	.2817
225.000			.4926	1.0339	.7309	.3850	.1081	.0317	-.0004	-.0011	.1614	.1657	.0971	.2597	.1825
240.000		.2179	.3132	.9921	.8185	.2852	.0693	.0195	-.0298	-.0316	.1446	.1559	.1669	.0837	.0892
270.000		.2249	.2374	.8473	.6019	.2302	.0186	-.0164	-.0671	-.0671	.1467	.7819	-.1405	-.1411	-.0948
300.000		.2256	.2476	.7383	.5181	.1780	-.0167	-.0474	-.0920	-.0838	.0383	.1324	-.0941	-.1870	-.1690
330.000		.2211	.2657	.8433	.4783	.0000	-.0429	-.0718	-.1083	-.1046	.0151	.0000		-.0684	-.0798

X/LT	.5628	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0854	-.0573	-.0371	-.0194	-.1208
30.000	-.0875	-.0304	-.0692	-.0291	-.0272	-.1296
60.000	-.1331	-.0774	-.0363	-.0218	.0470	-.1261
90.000	.0015	-.0328	-.0758	-.0381	.5328	-.1265
120.000	.0485	.1139	.0175	.0318	.2850	-.1296
135.000	.0018	.0475	-.0126	.1933	.2666	
147.000	.0726	.0066	.0203	.1539	.2652	-.1584
162.000	.1289	.0510	-.0214	.1682	.4745	
180.000	.1237	.0622	.0012	.1546	.5216	-.1472
198.000	.0253	.0967	.0485	.1132	.3606	
213.000	.0513	.0297	.0339	.1298	.1218	.0000
225.000	.0670	.0965	.0033	.1388	.1953	
240.000	.1074	.0972	.0388	.0498	.2251	-.1487
270.000	.0058	-.0181	-.0084	-.0251	.4183	-.1317
300.000	-.1383	-.0775	-.0385	-.0254	.0345	-.1310
330.000	.0000	-.0279	-.0660	-.0428	-.0098	-.1328

ARC97-019 1A81 LVAP(ALL HL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(1) = -8.073 BETAT (4) = 2.421

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0408	.0844	.1284	.1944	.2106	.2323	.2584	.2881	.3362	.3804	.4446	.4987
PHI															
.000	1.7418	.2289	.2853	.5745	.7037	.1205	-.0471	-.0784	-.1081	-.1114	.0088	-.0874	.0171	.0292	-.0142
30.000		.2370	.2853	.5800	.4474	.1222	-.0454	-.0798	-.1091	-.1143	-.0003	-.0178	-.0868	-.0325	-.0445
60.000		.2443	.2586	.6803	.4672	.1389	-.0336	-.0696	-.1011	-.1066	.0145	.1154	-.1571	-.1901	-.1523
90.000		.2478	.2401	.7404	.5276	.1812	-.0156	-.0508	-.0834	-.0891	.1811	.5062	-.1794	-.1161	-.0970
120.000		.2674	.2223	.8584	.6092	.2454	.0291	-.0110	-.0538	-.0611	.0999	.1095	.1501	.0557	.0536
135.000			.2278	.9530	.6526	.2777	.0532	.0081	-.0384	-.0377	.1323	.1452	.0948	.2600	.1287
147.000		.2835	.2446	1.0070	.6978	.3120	.0885	.0270	-.0190	-.0278	.1848	.0308	.2123	.2694	.1169
162.000			.2810	1.0462	.7391	.3572	.0968	.0484	-.0061	-.0090	.1917	-.0035	.2282	.1335	.1799
180.000	1.7418	.2957	.3315	1.0692	.9086	.3388	.1073	.0748	.0038	.0058	.2180	.0116	.2485	.6406	.1806
198.000			.3880	1.0791	.8543	.4436	.1073	.0791	.0217	.0073	.2011	.0343	.2851	.1722	.3225
213.000		.2583	.4559	.9756	.0000	.2010	.0489	.1028	.0221	.0080	.1164	.1284	.2604	.2973	.2932
225.000			.5886	1.0659	.7980	.4182	.1341	.0516	.0207	.0179	.1948	.1882	.1223	.2776	.2334
240.000		.2300	.3737	1.0249	.8512	.3214	.1013	.0402	-.0068	-.0105	.1829	.2011	.1841	.0885	.0981
270.000		.2448	.2511	.9321	.6568	.2735	.0487	.0095	-.0434	-.0431	.2026	.8188	-.1290	-.1356	-.0942
300.000		.2478	.2444	.7797	.5573	.2093	.0015	-.0328	-.0771	-.0785	.0627	.1847	-.0949	-.1884	-.1704
330.000		.2356	.2591	.7058	.4852	.0000	-.0323	-.0628	-.1001	-.0983	.0188	.0000		-.0642	-.1036

X/LT	.5628	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0858	-.087	-.0441	-.0235	-.1201
30.000	-.0717	-.0585	-.0721	-.0285	-.0210	-.1352
60.000	-.1293	-.0727	-.0298	-.0215	.1162	-.1272
90.000	-.0004	-.0537	-.0345	-.0358	.5191	-.1247
120.000	.1059	.0900	-.0007	.0498	.0738	-.1279
135.000	.0044	.0195	-.0228	.1520	.2168	
147.000	.0850	.0184	-.0020	.1419	.2218	-.1358
162.000	.0882	.0342	-.0212	.1308	.3536	
180.000	.1208	.0884	.0317	.0995	.3989	-.1418
198.000	.0178	.0098	.0528	.1037	.3989	
213.000	.1084	.0794	.0567	.1193	.1672	.0000
225.000	.0212	.1057	.0233	.1588	.2303	
240.000	.0488	.1050	.0809	.0704	.2308	-.1581
270.000	.0135	.0011	-.0888	-.0040	.5335	-.1358
300.000	-.1283	-.0701	-.0489	-.0380	.0729	-.1331
330.000	.0000	-.0415	-.0584	-.0485	-.0013	-.1430

ARC87-019 IAB1 LVAP(ALL HL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(1) = -8.857 BETAT (5) = 4.549

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1284	.1944	.2106	.2323	.2584	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7462	.2069	.2580	.6182	.7300	.1160	-.0485	-.0827	-.1108	-.1077	-.0040	-.0948	.0103	.0069	-.0323
30.000		.2265	.2570	.4940	.4118	.1105	-.0551	-.0890	-.1157	-.1116	.0002	-.0209	-.0662	-.0360	-.0392
60.000		.2367	.2566	.5705	.4257	.1091	-.0499	-.0841	-.1119	-.1070	.0030	.0807	-.1564	-.1876	-.1488
90.000		.2318	.2360	.6705	.4708	.1407	-.0387	-.0709	-.1007	-.0984	.1366	.5243	-.1879	-.0942	-.0806
120.000		.2444	.2045	.7792	.5557	.1943	.0004	-.0373	-.0742	-.0704	.0638	.0707	.1529	.0773	.0446
135 000			.2003	.8740	.6086	.2385	.0228	-.0142	-.0526	-.0527	.0955	.1301	.1053	.2349	.0967
147.000		.2545	.2150	.9409	.6609	.2913	.0497	.0109	-.0366	-.0358	.1285	.0505	.2011	.2757	.0738
162.000			.2659	.9943	.7381	.3304	.0808	.0303	-.0147	-.0192	.1665	-.0114	.2007	.0770	.1284
180.000	1.7462	.2615	.3490	1.0304	.8840	.3293	.1203	.0696	.0027	.0037	.2010	.0099	.2359	.6208	.1548
198.000			.4485	1.0799	.8356	.4504	.1294	.0780	.0303	.0223	.2091	.0232	.3008	.2161	.3847
213.000		.2538	.4954	1.0594	.0000	.2444	.0548	.1148	.0317	.0278	.1356	.1389	.2672	.3357	.3082
225.000			.6744	1.1078	.8798	.4840	.1488	.0784	.0448	.0484	.1971	.1987	.1498	.2623	.2720
240.000		.2589	.4118	1.0738	.8814	.3810	.1389	.0881	.0809	.0139	.2231	.2434	.1820	.0533	.0984
270.000		.2708	.2789	1.0098	.7170	.3140	.0783	.0334	-.0188	-.0150	.2988	.3848	-.1178	-.1283	-.0811
300.000		.2689	.2892	.8707	.6013	.2371	.0193	-.0186	-.0670	-.0584	.0858	.2081	-.0931	-.1860	-.1888
330.000		.2348	.2415	.7307	.5006	.0000	-.0893	-.0593	-.0883	-.0979	.0195	.0000		-.1140	-.1185

X/LT	.9528	.8340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0863	-.0725	-.0589	-.0228	-.1265
30.000	-.0721	-.0801	-.0756	-.0255	-.0112	-.1360
60.000	-.1176	-.0858	-.0261	-.0214	.1348	-.1283
90.000	-.0019	-.0749	-.0401	-.0328	.5245	-.1240
120.000	.0946	.0867	-.0104	.0773	.0845	-.1212
135.000	.0038	.0007	-.0362	.1058	.1938	
147.000	.0620	.0960	-.0226	.1294	.2006	-.1384
162.000	.0811	.0098	-.0050	.1018	.3418	
180.000	.0658	.0586	.0127	.0936	.5075	-.1441
198.000	-.0089	-.0816	.0731	.0519	.5808	
213.000	.1377	.0625	.0780	.1211	.2122	.0000
225.000	.1085	.1144	.0499	.1760	.2428	
240.000	.0854	.1291	.0768	.1000	.2078	-.1451
270.000	.0252	.0196	-.0565	.0142	.6252	-.1391
300.000	-.0936	-.0690	-.0578	-.0140	.0789	-.1383
330.000	.0000	-.0484	-.0568	-.0537	-.0583	-.1525

ARC87-019 IAS1 LVAP(ALLHL SCALED) EXTERNAL TANK (RETT3B)

ALPHAT(2) = -4.739 BETAT (1) = -8.277

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1844	.2106	.2323	.2584	.2821	.3382	.3804	.4445	.4987
PHI															
.000	1.7438	.1885	.2794	.6823	.6088	.1522	-.0271	-.0812	-.0835	-.1000	.0845	-.0788	-.0151	.0182	-.0261
30.000		.2598	.2371	.7028	.4981	.2179	.0148	-.0273	-.0878	-.0741	.0881	.0062	.0089	-.0962	-.1068
60.000		.2727	.2350	.9488	.5735	.2944	.0584	.0121	-.0319	-.0388	.1373	.3184	-.1186	-.1842	-.1415
90.000		.2958	.2985	1.0841	.6892	.3853	.1019	.0533	.0040	-.0053	.4440	.6795	-.1707	-.1290	-.1290
120.000		.3185	.3486	1.0917	.7576	.3931	.1294	.0757	.0221	.0139	.2383	.3425	.0814	-.0139	-.0042
135.000			.3451	1.1016	.8109	.4070	.1287	.0760	.0235	.0153	.2337	.2086	.0737	.1298	.1932
147.000		.3234	.3269	1.1030	.8039	.3931	.1273	.0757	.0189	.0096	.2348	.1170	.1985	.3279	.2447
162.000			.3049	1.0765	.7962	.3514	.1088	.0579	.0043	-.0014	.2098	.0083	.2477	.3715	.2047
180.000	1.7438	.3143	.2860	1.0206	.7650	.3434	.0854	.0374	-.0138	-.0186	.1806	-.0008	.2023	.6382	.1428
198.000			.2951	.9383	.8158	.3125	.0512	.0141	-.0371	-.0438	.1388	.0716	.1884	.1248	.2933
213.000		.3028	.3258	.6088	.0000	.0553	-.0395	.0123	-.0539	-.0344	.0325	.0498	.1734	.1884	.1275
225.000			.3220	.7846	.5476	.2426	.0282	-.0381	-.0634	-.0581	.0842	.0751	.0576	.1859	.0723
240.000		.2812	.2348	.7484	.5830	.1606	-.0137	-.0444	-.0888	-.0893	.0385	.0785	.1322	.0782	.0472
270.000		.2200	.2470	.7439	.4628	.1241	-.0430	-.0677	-.1084	-.1078	.0582	.6883	-.1761	-.1258	-.0991
300.000		.2018	.2491	.6917	.4261	.1321	-.0535	-.0789	-.1120	-.1124	.0150	.0230	-.0453	-.1485	-.1311
330.000		.1578	.2477	.5069	.4539	.0000	-.0472	-.0740	-.1088	-.1067	.0078	.0000		-.0285	-.0248

X/LT	.9520	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0755	-.0602	-.0651	-.0484	-.1377
30.000	-.0778	-.0199	-.0599	-.0491	-.0718	-.1560
60.000	-.0388	-.0442	-.0497	-.0115	.1385	-.1418
90.000	-.0004	-.0012	-.0532	-.0338	.0484	-.1402
120.000	.0052	.1958	.0829	.1174	.2482	-.1412
135.000	.0578	.0844	.0581	.2867	.3245	
147.000	.0947	.0570	.0823	.1866	.4422	-.1795
162.000	.1194	.0473	.0090	.0552	.6340	
180.000	.1128	-.0100	-.0286	.0683	.4974	-.1886
198.000	.0947	-.0841	-.0477	.0382	.4922	
213.000	-.1071	-.0809	-.0463	.0350	-.0177	.0000
225.000	.0044	.0283	-.0533	.0404	.1385	
240.000	.1088	.0148	-.0359	.0373	.0887	-.1388
270.000	-.0258	-.0886	-.0341	.0224	.3947	-.1383
300.000	-.0484	-.0892	-.0387	-.0308	.1412	-.1388
330.000	.0000	-.0908	-.0885	-.0347	-.0175	-.1437

ARC97-019 IAB1 LVAP(ALL HL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(2) = -4.730 BETAT (2) = -4.142

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4446	.4987
PHI															
.000	1.7475	.1850	.2681	.7019	.6280	.1635	-.0239	-.0587	-.0918	-.0978	.0315	-.0724	-.0041	.0329	.0007
30.000		.2566	.2650	.7708	.5112	.1986	.0008	-.0387	-.0748	-.0817	.0803	.0024	-.0209	-.0784	-.0977
60.000		.2798	.2444	.8772	.5570	.2524	.0393	-.0067	-.0487	-.0561	.1084	.2840	-.1301	-.1723	-.1530
90.000		.2887	.2548	1.0134	.7101	.3100	.0780	.0282	-.0198	-.0260	.3725	.6280	-.1784	-.1318	-.1348
120.000		.3023	.2901	1.0677	.7829	.3447	.1004	.0557	.0041	-.0073	.2043	.2553	.0761	-.0187	-.0013
135.000			.2987	1.0857	.7854	.3656	.1101	.0598	.0058	-.0009	.2048	.1881	.0558	.1568	.1900
147.000		.3097	.2922	1.0885	.7738	.3611	.1140	.0824	.0031	-.0062	.2127	.0838	.1968	.3181	.2164
162.000			.2897	1.0733	.7580	.3378	.0931	.0479	.0003	-.0104	.1994	.0057	.2427	.3209	.1635
180.000	1.7475	.3125	.2809	1.0321	.7286	.3468	.0840	.0312	-.0115	-.0179	.1797	-.0051	.2148	.6479	.1479
198.000			.2841	.9548	.8340	.3288	.0547	.0226	-.0272	-.0356	.1544	.0505	.1921	.1380	.2881
213.000		.3111	.3050	.6888	.0000	.0903	-.0161	.0309	-.0341	-.0271	.0512	.0551	.2050	.2038	.1983
225.000			.3391	.8487	.5931	.2848	.0495	-.0185	-.0441	-.0427	.0986	.1148	.0651	.2129	.1100
240.000		.2402	.2458	.7920	.6320	.1903	.0129	-.0268	-.0703	-.0714	.0715	.0911	.1288	.0581	.0487
270.000		.2129	.2562	.7185	.5017	.1524	-.0234	-.0525	-.0919	-.0919	.0947	.7358	-.1838	-.1342	-.1140
300.000		.2168	.2677	.6092	.4752	.1490	-.0363	-.0637	-.1004	-.1001	.0301	.0523	-.0470	-.1558	-.1415
330.000		.2119	.2726	.6288	.4746	.0000	-.0366	-.0637	-.1008	-.0988	.0199	.0000		-.0253	-.0167

X/LT	.6528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0713	-.0672	-.0810	-.0329	-.1327
30.000	-.0884	-.0148	-.0523	-.0370	-.0394	-.1483
60.000	-.0974	-.0574	-.0590	-.0214	.1288	-.1405
90.000	-.0143	-.0209	-.0853	-.0067	.6247	-.1373
120.000	.0285	.1180	.0571	.0723	.1735	-.1380
135.000	.0316	.0625	.0372	.3004	.2852	
147.000	.0713	.0326	.0248	.1559	.3941	-.1781
162.000	.0998	.0084	.0117	.0577	.4806	
180.000	.0897	.0841	-.0478	.0713	.4473	-.1721
198.000	.1029	.0651	-.0224	.0622	.3873	
213.000	-.0925	-.0853	-.0325	.0535	.0022	.0000
225.000	.0000	.0441	-.0438	.0501	.1405	
240.000	.1022	.0511	-.0217	.0405	.0830	-.1382
270.000	-.0212	-.0492	-.0182	-.0333	.4138	-.1358
300.000	-.0628	-.0857	-.0383	-.0237	.1258	-.1373
330.000	.0000	-.0884	-.0673	-.0365	-.0155	-.1438

ARC97-819 IABI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(2) = -4.701 BETAT (3) = .230

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0460	.0644	.1294	.1944	.2106	.2323	.2584	.2821	.3362	.3804	.4445	.4987
PHI															
.000	1.7441	.2162	.2884	.6878	.7289	.1552	-.0248	-.0586	-.0914	-.0974	.0412	-.0728	.3071	.0510	.0203
30.000		.2338	.2784	.7082	.5252	.1842	-.0194	-.0576	-.0893	-.0956	.0380	-.0038	-.0416	-.0319	-.0454
60.000		.2483	.2708	.7577	.5123	.1881	-.0063	-.0454	-.0803	-.0868	.0582	.1719	-.1331	-.1738	-.1480
90.000		.2814	.2594	.8234	.5046	.2230	.0138	-.0242	-.0627	-.0688	.2523	.5397	-.1894	-.1218	-.1236
120.000		.2792	.2584	.8975	.6539	.2673	.0421	.0029	-.0398	-.0494	.1237	.1513	.0988	-.0191	.0404
135.000			.2604	.9579	.6768	.2925	.0598	.0187	-.0301	-.0395	.1388	.1489	.0724	.2495	.1459
147.000		.2941	.2811	.9945	.7009	.3012	.0695	.0213	-.0229	-.0293	.1600	.0627	.1945	.2683	.1607
162.000			.2730	1.0261	.7180	.3150	.0733	.0387	-.0153	-.0226	.1687	-.0055	.2290	.1662	.1351
180.000	1.7441	.3035	.2823	1.0345	.7872	.3129	.0723	.0443	-.0077	-.0184	.1845	-.0009	.2027	.6500	.1856
198.000			.2997	1.0240	.8376	.3058	.0702	.0448	-.0083	-.0180	.1955	.1159	.1759	.1610	.2970
213.000		.2804	.3399	.9042	.0000	.1455	.0088	.0843	-.0097	-.0180	.0772	.1239	.1888	.2499	.2430
225.000			.4428	.9906	.7686	.3513	.0883	.0193	-.0124	-.0124	.1464	.1465	.0812	.2465	.1773
240.000		.2193	.3160	.9363	.7532	.2700	.0622	.0103	-.0350	-.0385	.1341	.1426	.1170	.0238	.0504
270.000		.2239	.2798	.8637	.8158	.2306	.0213	-.0115	-.0604	-.0632	.1548	.7986	-.1683	-.1405	-.1139
300.000		.2260	.2841	.7957	.5534	.2047	-.0034	-.0328	-.0773	-.0748	.0660	.1336	-.0555	-.1599	-.1436
330.000		.2214	.2931	.7278	.5242	.0000	-.0201	-.0502	-.0914	-.0892	.0450	.0000		-.0354	-.0526

X/LT	.5528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0871	-.0450	-.0330	-.0158	-.1210
30.000	-.0847	-.0509	-.0350	-.0195	-.0236	-.1308
60.000	-.0720	-.0913	-.0328	-.0150	.0947	-.1249
90.000	-.0191	-.0356	-.0543	-.0347	.5803	-.1249
120.000	-.0080	.0882	.0116	.0237	.3068	-.1266
135.000	-.0135	.0133	-.0186	.2050	.2390	
147.000	.0819	-.0221	.0048	.1652	.2412	-.1583
162.000	.1092	.0438	-.0308	.1562	.4025	
180.000	.1088	.0385	-.0538	.1206	.4434	-.1542
198.000	.0498	.1447	.0208	.1026	.2860	
213.000	-.0180	-.0078	.0068	.1195	.1356	.0000
225.000	.0287	.0622	-.0084	.1288	.1801	
240.000	.0373	.0812	.0237	.0403	.2194	-.1542
270.000	-.0173	-.0120	-.0704	-.0147	.5182	-.1322
300.000	-.0865	-.0907	-.0281	-.0119	.0530	-.1308
330.000	.0000	-.0276	-.0485	-.0388	-.0141	-.1357

ARC97-019 IA8I LVAP(ALUM. SEALED) EXTERNAL TANK (RETT38)

ALPHAT(2) = -4.675 BETAT (4) = 4.545

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.3021	.3382	.3904	.4445	.4987
PHI															
.000	1.7383	.2030	.2721	.7032	.7988	.1541	-.0844	-.0581	-.0908	-.0998	.0240	-.0819	.0103	.0212	-.0227
30.000		.2273	.2614	.5898	.5222	.1320	-.0393	-.0733	-.1009	-.1070	.0121	-.0116	-.0228	-.0271	-.0210
60.000		.2392	.2683	.6124	.4868	.1300	-.0376	-.0716	-.1009	-.1060	.0209	.0859	-.1281	-.1678	-.1356
90.000		.2488	.2600	.6875	.4833	.1448	-.0300	-.0622	-.0938	-.0975	.1502	.6095	-.1904	-.1096	-.1093
120.000		.2457	.2437	.7520	.5441	.1852	-.0050	-.0393	-.0763	-.0820	.0590	.0659	.1125	.0167	.0236
135.000			.2374	.8178	.5798	.2148	.0162	-.0258	-.0611	-.0679	.0798	.1153	.0746	.2325	.0894
147.000		.2852	.2284	.8698	.6203	.2457	.0279	-.0074	-.0480	-.0563	.1019	.0725	.1897	.2550	.0621
162.000			.2461	.9415	.6645	.2923	.0585	.0101	-.0321	-.0426	.1313	.0061	.1832	.0729	.1126
180.000	1.7383	.2499	.2880	1.0019	.8442	.2857	.0911	.0422	-.0179	-.0249	.1568	.0023	.2227	.5943	.1309
198.000			.3832	1.0489	.8425	.4032	.1048	.0547	.0098	-.0084	.1729	.0009	.2665	.2089	.3590
213.000		.2405	.3777	1.0450	.0000	.2146	.0356	.0882	.0136	.0008	.1142	.1083	.2328	.3147	.2905
225.000			.5484	1.0775	.8884	.4298	.1136	.0592	.0233	.0216	.1687	.1710	.1395	.1863	.2452
240.000		.2701	.3628	1.0744	.8960	.3562	.1198	.0630	-.0003	-.0013	.2068	.2294	.1072	.0074	.0274
270.000		.3044	.2873	1.0435	.7298	.3189	.0786	.0398	-.0172	-.0225	.2764	.8557	-.1513	-.1411	-.1034
300.000		.2819	.2683	.9186	.6446	.2678	.0422	.0039	-.0471	-.0517	.1128	.2395	-.0559	-.1598	-.1436
330.000		.2457	.2728	.7989	.5599	.0000	-.0022	-.0376	-.0781	-.0760	.0590	.0000		-.0812	-.1003

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0727	-.0614	-.0616	-.0328	-.1279
30.000	-.0554	-.0782	-.0673	-.0228	-.0204	-.1335
60.000	-.0492	-.0893	-.0326	-.0183	.1289	-.1276
90.000	-.0229	-.0715	-.0319	-.0363	.5868	-.1216
120.000	.0833	.0500	-.0343	.0589	.0661	-.1192
135.000	-.0229	-.0209	-.0524	.0914	.1758	
147.000	.0390	-.0298	-.0458	.1129	.1726	-.1395
162.000	.0584	-.0128	-.0425	.0956	.2813	
180.000	.0546	.0480	-.0010	.0284	.4218	-.1472
198.000	-.0097	-.0808	.0412	.0077	.4854	
213.000	.0938	.0452	.0608	.0877	.1952	.0000
225.000	.0853	.0820	.0367	.1384	.2210	
240.000	.0487	.1111	.0841	.0812	.1440	-.1402
270.000	-.0070	.0011	-.0828	.0038	.6849	-.1374
300.000	-.0575	-.0763	-.0888	-.0074	.1253	-.1348
330.000	.0000	-.0283	-.0470	-.0448	-.0327	-.1458

ARC87-019 IAS1 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(2) = -4.000 BETAT (5) = 0.000

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1284	.1944	.2108	.2323	.2604	.2881	.3382	.3804	.4448	.4887
PHI															
.000	1.7243	.1587	.2803	.0813	.0158	.1478	-.0278	-.0827	-.0938	-.1025	.0167	-.0874	.0088	.0038	-.0282
30.000		.1884	.2460	.5585	.4583	.1101	-.0506	-.0840	-.1088	-.1156	-.0033	-.0124	-.0198	-.0352	-.0283
60.000		.2212	.2488	.4776	.4117	.1087	-.0539	-.0885	-.1141	-.1188	.0129	.0276	-.1309	-.1644	-.1287
90.000		.2271	.2483	.6035	.4308	.1125	-.0518	-.0801	-.1084	-.1108	.1156	.6809	-.1894	-.1088	-.0920
120.000		.2195	.2153	.6789	.4884	.1492	-.0272	-.0806	-.0943	-.0980	.0385	.0261	.1010	.0395	.0150
135.000			.1975	.7437	.5297	.1849	-.0136	-.0460	-.0759	-.0852	.0490	.0999	.0846	.1928	.0606
147.000		.2180	.1853	.8049	.5751	.2244	.0100	-.0255	-.0655	-.0689	.0795	.0630	.1755	.2754	.0402
162.000			.2139	.8944	.6438	.2636	.0358	-.0027	-.0395	-.0513	.1100	.0369	.1542	.0722	.0589
180.000	1.7243	.2027	.3039	.9623	.8107	.2812	.0856	.0302	-.0104	-.0240	.1858	-.0052	.2143	.6285	.0811
198.000			.4860	1.0298	.7352	.4035	.1291	.0498	.0250	.0003	.1875	.0059	.2549	.2435	.4821
213.000		.2298	.4161	1.0178	.9000	.2078	.0400	.1024	.0150	.0014	.1503	.1090	.2407	.3244	.3230
225.000			.8215	1.0740	.9450	.4831	.1312	.0864	.0385	.0322	.2292	.1953	.1403	.1558	.2264
240.000		.2962	.4012	1.0810	.9579	.4001	.1455	.0902	.0191	.0233	.2481	.2740	.1076	.0049	.0298
270.000		.3217	.3102	1.0492	.7838	.3758	.1058	.0635	.0092	.0035	.3341	.8973	-.1411	-.1380	-.0920
300.000		.2986	.2546	.9761	.6821	.3107	.0633	.0236	-.0308	-.0350	.1437	.2601	-.0522	-.1574	-.1373
330.000		.2679	.2514	.8156	.5723	.0000	.0090	-.0267	-.0707	-.0713	.0679	.0000		-.0941	-.1075

X/LT	.5 a	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0775	-.0661	-.0637	-.0489	-.1374
30.000	-.0650	-.0785	-.0609	-.0273	-.0320	-.1328
60.000	-.0321	-.0823	-.0307	-.0248	.1347	-.1283
90.000	-.0339	-.0824	-.0157	-.0453	.6138	-.1185
120.000	.0000	.0280	-.0481	.0844	.0718	-.1178
135.000	-.0384	-.0307	-.0720	.0782	.1512	
147.000	-.0118	-.0251	-.0411	.0821	.2211	-.1485
162.000	-.0085	-.0388	-.0798	.0554	.2956	
180.000	.0142	.0107	-.0211	-.0034	.3811	-.1521
198.000	-.0380	-.1193	.0620	.0121	.6498	
213.000	.1190	.0492	.0824	.1138	.2187	.0000
225.000	.1197	.1024	.0809	.1721	.2395	
240.000	.0723	.1594	.1004	.1084	.2773	-.1437
270.000	-.0041	.0145	-.0356	-.0256	.6203	-.1381
300.000	-.0398	-.0837	-.0505	-.0157	.1502	-.1370
330.000	.0000	-.0418	-.0857	-.0941	-.0589	-.1481

ARC87-019 IAB1 LVAP(ALL HL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(3) = -2.000 BETAT (1) = -8.874

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4448	.4987
PHI															
.000	1.7408	.1807	.2933	.7619	.6911	.1900	-.0018	-.0373	-.0748	-.0821	.0582	-.0623	-.0135	.0275	-.0062
30.000		.2800	.2536	.8674	.5669	.2575	.0373	-.0048	-.0485	-.0542	.1076	.0221	.0280	-.0591	-.0849
60.000		.2947	.2584	1.0031	.6370	.3228	.0781	.0291	-.0181	-.0248	.1826	.3872	-.0911	-.1369	-.1234
90.000		.3048	.2912	1.0695	.7703	.3872	.1052	.0555	.0051	-.0019	.4387	.6838	-.1813	-.1327	-.0987
120.000		.3100	.3041	1.0751	.7797	.3886	.1142	.0845	.0099	.0010	.2194	.3449	.0409	-.0497	-.0436
135.000			.2940	1.0678	.7550	.3679	.1058	.0544	.0054	-.0001	.2029	.1711	.0743	.0671	.1397
147.000		.3037	.2786	1.0519	.7424	.3575	.0975	.0503	-.0008	-.0079	.1980	.0938	.1628	.2823	.2108
162.000			.2692	1.0112	.7019	.3053	.0815	.0352	-.0178	-.0220	.1728	-.0093	.2082	.3483	.1900
180.000	1.7408	.2984	.2657	.9194	.6555	.2963	.0597	.0141	-.0365	-.0368	.1398	.0492	.1697	.5899	.1193
198.000			.2844	.8421	.7851	.2681	.0267	-.0070	-.0535	-.0598	.1051	.0687	.1665	.1384	.2752
213.000		.2860	.3000	.6055	.0000	.0549	-.0411	-.0087	-.0611	-.0524	.0137	.0374	.1505	.1724	.1148
225.000			.3105	.7480	.5383	.2187	.0134	-.0472	-.0708	-.0690	.0551	.0820	.0358	.1803	.0725
240.000		.2448	.2487	.7173	.5819	.1578	-.0171	-.0531	-.0919	-.0912	.0326	.0632	.0904	.0278	.0208
270.000		.2187	.2577	.8374	.4753	.1283	-.0387	-.0687	-.1043	-.1047	.0659	.7481	-.1679	-.1296	-.1078
300.000		.2135	.2629	.5655	.4659	.1450	-.0394	-.0687	-.1050	-.1054	.0190	.0513	-.0128	-.1192	-.1085
330.000		.1595	.2688	.8897	.4933	.0000	-.0289	-.0590	-.0955	-.0935	.0291	.0000		-.0201	-.0018

X/LT	.8528	.8340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0598	-.0429	-.0441	-.0484	-.1272
30.000	-.0858	-.0869	-.0329	-.0389	-.0230	-.1419
60.000	-.0087	-.0121	-.0806	-.0150	.1721	-.1342
90.000	-.0180	-.0242	-.0551	-.0213	.6643	-.1335
120.000	.0582	.1345	.0782	.1148	.2269	-.1331
135.000	.0305	.0409	.0529	.2872	.3114	
147.000	.0582	.0321	.0442	.1776	.4826	-.1727
162.000	.0988	.0387	-.0109	.0425	.6134	
180.000	.0914	-.0117	-.0424	.0885	.4799	-.1825
198.000	.0807	-.0999	-.0757	.0342	.4669	
213.000	-.1129	-.0759	-.0601	.0241	-.0279	.0000
225.000	-.0238	.0050	-.0884	.0300	.1248	
240.000	.0592	.0060	-.0497	.0287	.0594	-.1283
270.000	-.0457	-.0645	-.0420	.0601	.3884	-.1288
300.000	-.0083	-.0099	-.0545	-.0348	.1361	-.1318
330.000	.0000	-.0714	-.0407	-.0353	-.0179	-.1342

ARC87-018 IAB1 LVAP(ALUM. SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(3) = -2.838 BETAT (2) = -1.881

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2984	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.7480	.8008	.2878	.7806	.7886	.1986	-.0038	-.0402	-.0758	-.0830	.0878	-.0830	-.0118	.0581	.0314
30.000		.2418	.2886	.8174	.5776	.2181	.0104	-.0288	-.0858	-.0727	.0800	-.0027	-.0004	-.0248	-.0491
60.000		.2848	.2785	.8585	.6122	.2423	.0316	-.0137	-.0558	-.0625	.1025	.2153	-.1073	-.1473	-.1244
90.000		.2754	.2728	.9150	.6853	.2707	.0419	.0009	-.0419	-.0487	.3107	.5821	-.1878	-.1453	-.1254
120.000		.2885	.2784	.9319	.6908	.2863	.0534	.0120	-.0315	-.0395	.1466	.1874	.0376	-.0580	-.0473
135.000			.2778	.9482	.6898	.3030	.0583	.0144	-.0277	-.0383	.1414	.1384	.0258	.1225	.1373
147.000		.2848	.2775	.9576	.6978	.2953	.0639	.0186	-.0298	-.0377	.1505	.0718	.1651	.2818	.1622
162.000			.2837	.9499	.6884	.2842	.0513	.0132	-.0281	-.0420	.1466	-.0207	.1994	.2529	.1334
180.000	1.7460	.2789	.2889	.9284	.6737	.2988	.0499	.0087	-.0312	-.0445	.1407	-.0175	.2102	.6385	.1570
198.000			.2920	.9030	.8023	.3089	.0329	.0087	-.0388	-.0508	.1165	.0810	.1545	.1375	.2535
213.000		.2418	.3191	.7958	.0000	.1030	-.0266	.0191	-.0419	-.0494	.0362	.0842	.1684	.1977	.2226
225.000			.3958	.8747	.6908	.2777	.0444	-.0215	-.0488	-.0487	.0983	.1162	.0471	.2258	.1414
240.000		.2112	.3146	.8488	.6481	.2101	.0193	-.0235	-.0674	-.0658	.0811	.0970	.0749	-.0154	.0158
270.000		.2314	.3007	.8251	.5695	.1879	-.0057	-.0402	-.0788	-.0795	.1246	.8015	-.1745	-.1421	-.1268
300.000		.2503	.3028	.7674	.5573	.1900	-.0141	-.0454	-.0855	-.0848	.0811	.0917	-.0138	-.1271	-.1209
330.000		.2482	.3028	.7712	.5558	.0000	-.0113	-.0437	-.0858	-.0833	.0552	.0000		-.0234	-.0084

X/LT	.8828	.6348	.7423	.8586	.9284	.9838
PHI						
.000	.0000	-.0481	-.0412	-.0887	-.0833	-.1281
30.000	-.0571	-.0848	-.0883	-.0238	-.0186	-.1286
60.000	-.0388	-.0883	-.0157	-.0328	.1378	-.1267
90.000	-.0342	-.0443	-.0812	-.0301	.0829	-.1267
120.000	-.0833	.0838	.0246	.0483	.2820	-.1334
135.000	-.0882	-.0170	.0038	.2888	.3145	
147.000	.0252	-.0244	-.0175	.1561	.2876	-.1578
162.000	.1181	-.0184	-.0228	.1883	.4753	
180.000	.0884	.0240	-.0858	.1481	.4883	-.1588
198.000	.0884	.0888	-.0235	.0871	.3245	
213.000	-.0884	-.0378	-.0338	.0833	.0782	.0000
225.000	-.0888	.0282	-.0534	.0829	.1588	
240.000	.0854	.0487	-.0135	.0388	.1325	-.1388
270.000	-.0435	-.0318	-.0488	-.0384	.4888	-.1287
300.000	-.0231	-.0815	-.0823	-.0184	.1527	-.1274
330.000	.0000	-.0888	-.0384	-.0338	-.0138	-.1337

ARC97-019 IAB1 LVAP(ALL HL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(3) = -2.520 BETAT (3) = 2.384

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1284	.1944	.2108	.2323	.2564	.2821	.3382	.3804	.4446	.4687
PHI															
.000	1.7489	.2057	.3020	.7889	.8824	.1886	-.0089	-.0455	-.0793	-.0844	.0842	-.0626	-.0038	.0452	.0186
30.000		.2437	.2988	.7435	.5784	.1785	-.0111	-.0515	-.0842	-.0911	.0527	-.0213	-.0128	-.0140	-.0081
60.000		.2846	.2943	.7400	.5388	.1785	-.0121	-.0535	-.0863	-.0911	.0523	.0982	-.1001	-.1476	-.1281
90.000		.2857	.2884	.7682	.5481	.1885	-.0093	-.0452	-.0793	-.0851	.1922	.5964	-.1796	-.1389	-.0987
120.000		.2650	.2845	.8044	.5805	.2163	.0022	-.0323	-.0661	-.0735	.0797	.0980	.0586	-.0481	.0037
135.000			.2817	.8449	.5831	.2267	.0189	-.0208	-.0606	-.0667	.0870	.1043	.0569	.2283	.0918
147.000		.2822	.2789	.8892	.6225	.2332	.0256	-.0159	-.0523	-.0611	.1031	.0715	.1678	.2293	.0987
162.000			.2830	.8928	.8455	.2579	.0384	.0008	-.0471	-.0491	.1158	.0530	.1722	.1886	.1306
180.000	1.7458	.2538	.2924	.9160	.6986	.2589	.0402	.0157	-.0377	-.0402	.1343	.0883	.1796	.5786	.1275
198.000			.3327	.9505	.8227	.3358	.0492	.0230	-.0249	-.0383	.1413	.0081	.2450	.1775	.2999
213.000		.2353	.3497	.9442	.0000	.1549	.0067	.0525	-.0193	-.0273	.0712	.0883	.1910	.2704	.2534
225.000			.4577	.9921	.8440	.3376	.0782	.0198	-.0123	-.0130	.1126	.1183	.1162	.1504	.2101
240.000		.2488	.3198	.9851	.7210	.2901	.0677	.0261	-.0314	-.0307	.1554	.1737	.0567	-.0324	-.0217
270.000		.2611	.3077	.9551	.6728	.2707	.0503	.0074	-.0388	-.0431	.2202	.8468	-.1751	-.1372	-.1323
300.000		.2392	.3108	.8925	.6211	.2568	.0308	-.0054	-.0523	-.0551	.1126	.1901	-.0276	-.1337	-.1247
330.000		.2168	.3077	.8506	.5851	.0000	.0099	-.0249	-.0703	-.0689	.0814	.0000		-.0227	-.0503

X/LT	.9528	.8340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0540	-.0512	-.0314	-.0315	-.1231
30.000	-.0377	-.0627	-.0442	-.0259	-.0212	-.1337
60.000	-.0287	-.0007	-.0449	-.0231	.1615	-.1277
90.000	-.0484	-.0585	-.0777	-.0429	.5418	-.1256
120.000	-.0239	.0533	-.0230	.0234	.0755	-.1252
135.000	-.0215	-.0295	-.0538	.1327	.2008	
147.000	.0524	-.0421	-.0390	.1278	.1909	-.1385
162.000	.0530	-.0045	-.0918	.1118	.3053	
180.000	.0783	.0388	-.0641	.1174	.3237	-.1438
198.000	.0080	.0279	.0095	.0754	.3619	
213.000	.0329	.0233	.0048	.1105	.1803	.0000
225.000	.0298	.0341	.0060	.1463	.2203	
240.000	.0070	.0693	.0320	.0638	.1215	-.1417
270.000	-.0357	-.0331	-.0818	-.0046	.6719	-.1318
300.000	-.0256	-.0198	-.0321	-.0322	.1597	-.1326
330.000	.0000	-.0233	-.0217	-.0378	.0043	-.1403

ARC97-019 IAOI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(3) = -2.502 BETAT (4) = 6.048

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0002	.0104	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7323	.1505	.2863	.7534	.9010	.1851	-.0089	-.0432	-.0776	-.0841	.0614	-.0741	-.0007	.0119	-.0198
30.000		.1509	.2850	.8541	.4744	.1400	-.0353	-.0693	-.0977	-.1048	.0153	-.0058	-.0293	-.0285	-.0120
60.000		.2165	.2458	.5379	.4358	.1192	-.0481	-.0811	-.1078	-.1118	.0128	.0486	-.0990	-.1431	-.1153
90.000		.2273	.2524	.5876	.4425	.1137	-.0505	-.0804	-.1078	-.1109	.1187	.7700	-.1768	-.1504	-.0664
120.000		.2301	.2402	.8678	.4734	.1400	-.0341	-.0844	-.0987	-.1028	.0278	.0363	.0586	-.0020	-.0165
135.000			.2245	.7108	.4981	.1580	-.0254	-.0578	-.0859	-.0929	.0318	.0806	.0555	.1871	.0373
147.000		.2128	.2154	.7523	.5352	.1910	-.0108	-.0407	-.0790	-.0809	.0560	.0579	.1437	.2372	.0245
162.000			.2239	.8111	.5834	.2294	.0148	-.0242	-.0568	-.0689	.0777	.0503	.1533	.0554	.0456
180.000	1.7323	.2067	.2479	.9062	.7625	.2343	.0582	.0085	-.0332	-.0452	.1219	.0325	.1871	.5684	.0859
198.000			.3709	.9945	.6611	.3542	.1031	.0216	.0050	-.0208	.1524	-.0080	.2128	.2261	.4769
213.000		.2308	.3056	.9780	.0000	.1548	.0035	.0733	-.0099	-.0201	.1247	.0959	.2055	.2776	.3044
225.000			.4922	1.0601	.9486	.3965	.1021	.0650	.0188	.0107	.2011	.1545	.0909	.0949	.1622
240.000		.3083	.3396	1.0850	.8356	.3819	.1219	.0772	.0086	.0096	.2257	.2665	.0568	-.0349	-.0185
270.000		.3372	.3084	1.0951	.7912	.3748	.1097	.0615	.0103	.0084	.3351	.9050	-.1668	-.1473	-.1119
300.000		.3107	.2865	1.0286	.7247	.3386	.0798	.0373	-.0162	-.0211	.1724	.2982	-.0198	-.1313	-.1140
330.000		.2761	.2715	.8996	.6264	.0000	.0362	-.0023	-.0515	-.0538	.1044	.0000		-.0612	-.0880

X/LT	.5528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	.0000	-.0686	-.0553	-.0584	-.0578	-.1337
30.000	-.0542	-.0682	-.0511	-.0289	-.0317	-.1305
60.000	-.0041	-.0173	-.0434	-.0279	.1526	-.1273
90.000	-.0513	-.0908	-.0581	-.0498	.5858	-.1231
120.000	.0527	.0120	-.0717	.0516	.0653	-.1194
135.000	-.0048	-.0542	-.0885	.0672	.1473	
147.000	-.0273	-.0563	-.0581	.0585	.1986	-.1337
162.000	-.0218	-.0577	-.0886	.0447	.2048	
180.000	-.0055	-.0027	-.0484	-.0147	.3479	-.1452
198.000	-.0428	-.1288	.0381	.0083	.6820	
213.000	.0905	.0280	.0598	.1086	.2312	.0000
225.000	.1008	.0677	.0484	.1845	.2534	
240.000	.0951	.1343	.0905	.1049	.2970	-.1849
270.000	-.0232	-.0158	-.0400	-.0128	.6885	-.1379
300.000	-.0050	-.0232	-.0895	-.0196	.1787	-.1344
330.000	.0000	-.0323	-.0390	-.0598	-.0389	-.1480

ARC97-019 IABI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(4) = -.372 BETAT (1) = -8.286

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.7387	.1946	.2937	.8368	.7368	.2262	.0218	-.0193	-.0590	-.0849	.0924	-.0505	-.0102	.0439	.0144
30.000		.2878	.2627	.9550	.8131	.2928	.0843	.0183	-.0291	-.0373	.1412	.0229	.0393	-.0181	-.0584
60.000		.3017	.2756	1.0538	.6757	.3479	.0969	.0428	-.0076	-.0126	.1854	.3732	-.0514	-.1062	-.1029
90.000		.3059	.2874	1.0827	.7718	.3690	.1038	.0539	.0046	-.0009	.4286	.7023	-.1775	-.1229	-.0206
120.000		.3007	.2763	1.0509	.7480	.3455	.0978	.0473	-.0016	-.0097	.1963	.3274	.0009	-.0759	-.0716
135.000			.2847	1.0263	.7127	.3302	.0849	.0347	-.0152	-.0188	.1724	.1333	.0585	.0331	.0991
147.000		.2828	.2529	.9789	.8876	.3163	.0658	.0225	-.0215	-.0260	.1584	.0673	.1085	.1892	.2021
162.000			.2561	.9158	.8439	.2681	.0536	.0091	-.0388	-.0454	.1296	-.0102	.1763	.3191	.1785
180.000	1.7387	.2850	.2668	.8396	.5998	.2483	.0264	-.0093	-.0589	-.0610	.1019	.0812	.1488	.5441	.0984
198.000			.2798	.7723	.7141	.2220	-.0026	-.0291	-.0722	-.0749	.0720	.0708	.1456	.1125	.2805
213.000		.2816	.2798	.5892	.0000	.0497	-.0552	-.0253	-.0753	-.0720	-.0073	.0338	.1261	.1592	.1140
225.000			.3031	.7194	.5673	.1950	-.0061	-.0590	-.0829	-.0833	.0360	.0872	.0091	.1736	.0723
240.000		.2396	.2603	.6820	.5149	.1412	-.0294	-.0631	-.0989	-.0989	.0246	.0547	.0460	-.0251	-.0196
270.000		.2309	.2694	.5883	.4730	.1399	-.0381	-.0687	-.1052	-.1059	.0790	.7267	-.1581	-.1344	-.0435
300.000		.2085	.2742	.6627	.4890	.1499	-.0322	-.0628	-.1013	-.1017	.0260	.0393	.0356	-.0879	-.0956
330.000		.1667	.2673	.7375	.5320	.0000	-.0137	[illegible]							

[illegible]

PHI						
000	0000	[illegible]				
30.000	[illegible]					
60.000	0081	[illegible]				
90.000	0152	[illegible]				
120.000	1222	[illegible]				
135.000	0491	[illegible]				
147.000	[illegible]					
162.000	0881	[illegible]				
180.000	[illegible]					
198.000	0897	[illegible]				
213.000	[illegible]					
225.000	[illegible]					
240.000	[illegible]					
270.000	[illegible]					
300.000	0161	[illegible]				
330.000	0000	[illegible]				

ARC87-018 IA81 LVAP(ALUM. SCALED) EXTERNAL TANK (RETT38)

ALPHAT(4) = -.378 BETAT (8) = -4.198

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0460	.0844	.1294	.1944	.2186	.2323	.2884	.3821	.3362	.3804	.4448	.4987
PHI															
.000	1.7450	.1808	.3018	.8414	.7018	.2249	.0187	-.0182	-.0671	-.0881	.0844	-.0441	-.0053	.0609	.0365
30.000		.2683	.2792	.9210	.6378	.2731	.0461	.0027	-.0387	-.0453	.1259	.0103	.0292	-.0051	-.0429
60.000		.2884	.2757	.9843	.7063	.3053	.0738	.0243	-.0231	-.0290	.1547	.2752	-.0600	-.1105	-.1095
90.000		.3025	.2767	1.0142	.7273	.3136	.0754	.0318	-.0138	-.0205	.3832	.8545	-.1747	-.1275	-.0457
120.000		.3011	.2746	.9801	.7182	.3005	.0737	.0257	-.0224	-.0276	.1666	.2582	-.0022	-.0917	-.0883
135.000			.2718	.9667	.6948	.2987	.0626	.0152	-.0294	-.0333	.1494	.1195	.0243	.0189	.0882
147.000		.2958	.2701	.9445	.6815	.2983	.0490	.0117	-.0311	-.0414	.1389	.0641	.1408	.2560	.1499
162.000			.2771	.9048	.6480	.2516	.0388	-.0061	-.0460	-.0492	.1154	.0177	.1693	.2626	.1426
180.000	1.7450	.2732	.2820	.8516	.6106	.2530	.0271	-.0155	-.0592	-.0601	.1031	.0913	.1541	.5532	.1079
198.000			.2837	.8041	.7231	.2433	.0056	-.0190	-.0627	-.0774	.0814	.0689	.1597	.1263	.2282
213.000		.2467	.2976	.6580	.0000	.0704	-.0453	-.0106	-.0616	-.0893	.0085	.0456	.1343	.1684	.1475
225.000			.3487	.7682	.6158	.2215	.0124	-.0422	-.0882	-.0689	.0853	.1066	.0210	.1870	.1090
240.000		.2185	.2997	.7418	.5435	.1684	-.0084	-.0450	-.0838	-.0834	.0485	.0714	.0446	-.0478	-.0183
270.000		.2448	.2886	.6864	.5222	.1648	-.0161	-.0523	-.0805	-.0898	.1038	.7835	-.1585	-.1310	-.0495
300.000		.2184	.3205	.7353	.5232	.1757	-.0109	-.0448	-.0877	-.0880	.0579	.0728	.0373	-.0915	-.1060
330.000		.1764	.3170	.7828	.5519	.0000	-.0029	-.0356	-.0742	-.0728	.0877	.0000		-.0134	-.0008

X/LT	.9528	.8340	.7423	.8508	.9284	.9838
PHI						
.000	.0000	-.0345	-.0349	-.0217	-.0315	-.1287
30.000	-.0468	-.0133	-.0084	-.0203	.0075	-.1271
60.000	-.0053	.0117	-.0210	-.0113	.1424	-.1232
90.000	.0038	-.0457	-.0742	-.0606	.9520	-.1232
120.000	.0575	.0640	.0382	.0608	.2148	-.1215
135.000	-.0038	.0155	.0156	.2808	.2776	
147.000	.0219	.0076	-.0078	.1351	.3871	-.1848
162.000	.0051	-.0198	-.0079	.0317	.5051	
180.000	.0588	.0148	-.0124	.0570	.4094	-.1632
198.000	.0741	.0034	-.0681	.0685	.3354	
213.000	-.1094	-.0826	-.0882	.0431	.0098	.0000
225.000	-.0348	-.0022	-.0807	.0471	.1307	
240.000	.0141	.0159	-.0415	.0372	.0871	-.1298
270.000	-.0185	-.0781	-.0471	-.0509	.4198	-.1271
300.000	.0002	.0158	-.0288	-.0338	.1417	-.1308
330.000	.0000	-.0585	-.0294	-.0288	-.0158	-.1334

ARC87-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(4) = -.385 BETAT (3) = .200

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1284	.1944	.2108	.2323	.2884	.2821	.3362	.3304	.4445	.4987
PHI															
.000	1.7538	.1889	.3384	.8657	.8814	.2325	.0187	-.0210	-.0504	-.0675	.0983	.0482	-.0163	.0666	.0460
30.000		.2001	.3356	.8523	.6104	.2255	.0194	-.0224	-.0615	-.0693	.0916	-.0145	.0050	-.0026	-.0075
60.000		.2689	.3056	.8534	.6059	.2287	.0183	-.0252	-.0642	-.0700	.0899	.1306	-.0687	-.1164	-.1187
90.000		.2860	.3020	.8509	.6108	.2262	.0122	-.0248	-.0625	-.0693	.2473	.5868	-.1722	-.1533	-.0631
120.000		.2920	.3039	.8541	.6104	.2238	.0163	-.0241	-.0632	-.0693	.0962	.1413	-.0017	-.0993	-.0725
135.000			.3025	.8689	.8013	.2401	.0167	-.0210	-.0590	-.0668	.0920	.0906	-.0038	.1023	.0627
147.000		.2884	.3014	.8766	.6143	.2301	.0230	-.0203	-.0608	-.0657	.1018	.0480	.1234	.2406	.1005
162.000			.3085	.8795	.6167	.2266	.0132	-.0163	-.0566	-.0681	.1025	-.0331	.1599	.1919	.0870
180.000	1.7538	.2675	.3095	.8707	.6192	.2422	.0139	-.0142	-.0524	-.0615	.1092	.0860	.1393	.5349	.1672
198.000			.3287	.8671	.7822	.2790	.0139	-.0066	-.0521	-.0622	.0856	.0822	.1341	.1298	.3073
213.000		.236'	.3405	.6386	.0000	.1062	-.0224	.0129	-.0448	-.0572	.0308	.1070	.1550	.2093	.1839
225.000			.4031	.8830	.7673	.2783	.0397	-.0142	-.0424	-.0441	.0646	.0927	.0906	.1043	.1447
240.000		.2543	.3269	.8351	.6339	.2415	.0265	-.0062	-.0604	-.0583	.1088	.1213	.0179	-.0694	-.0565
270.000		.2682	.3290	.9050	.6325	.2335	.0265	-.0142	-.0622	-.0615	.1629	.8387	-.1745	-.1410	-.0763
300.000		.2686	.3325	.8910	.6279	.2420	.0226	-.0138	-.0608	-.0622	.1046	.1266	.0228	-.1000	-.1114
330.000		.2368	.3384	.8886	.6206	.0000	.0198	-.0156	-.0608	-.0616	.0990	.0000		-.0169	-.0090

X/LT	.5529	.6340	.7423	.8506	.9264	.9839
PHI						
.000	.0000	-.0329	-.0411	-.0158	-.0197	-.1255
30.000	-.0243	-.0451	-.0258	-.0188	-.0187	-.1287
60.000	-.0190	.0053	-.0258	-.0224	.1525	-.1206
90.000	-.0058	-.0718	-.0816	-.0586	.5744	-.1199
120.000	-.0055	.0343	-.0083	.0175	.3027	-.1283
135.000	-.0211	-.0303	-.0380	.1924	.2113	
147.000	.0525	-.0603	-.0401	.1441	.1978	-.1498
162.000	.0577	.0042	-.0829	.1257	.2729	
180.000	.0822	-.0184	-.0958	.0961	.2736	-.1519
198.000	.0431	.0643	-.0242	.0895	.1794	
213.000	-.0850	-.0575	-.0384	.1038	.1249	.0000
225.000	-.0100	.0077	-.0336	.1310	.1638	
240.000	-.0020	.0398	-.0044	.0320	.1971	-.1505
270.000	.0087	-.0582	-.0847	-.0452	.5226	-.1301
300.000	-.0166	.0151	-.0238	-.0178	.1447	-.1287
330.000	.0000	-.0471	-.0131	-.0275	-.0018	-.1322

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(4) = -.338 BETAT (4) = 4.498

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2921	.3382	.3804	.4446	.4987
PHI															
.000	1.7406	.1597	.3142	.8468	.9519	.2272	.0189	-.0223	-.0620	-.0705	.0879	-.0545	-.0110	.0428	.0148
30.000		.1555	.3044	.7840	.5502	.1873	-.0063	-.0467	-.0815	-.0875	.0548	-.0207	-.0247	-.0149	.0085
60.000		.2191	.2883	.7079	.5071	.1803	-.0216	-.0600	-.0923	-.0985	.0401	.0629	-.0498	-.1096	-.1093
90.000		.2586	.2862	.6699	.5061	.1502	-.0338	-.0652	-.0954	-.1031	.1606	.6990	-.1736	-.1629	-.0433
120.000		.2551	.2820	.7072	.5064	.1596	-.0314	-.0607	-.0912	-.0971	.0464	.0676	.0124	-.0748	-.0231
135.000			.2775	.7534	.5197	.1689	-.0178	-.0537	-.0895	-.0921	.0450	.0785	.0330	.1976	.0489
147.000		.2443	.2726	.7808	.5414	.1762	-.0174	-.0509	-.0804	-.0879	.0578	.0599	.1253	.2213	.0294
162.000			.2752	.8056	.5639	.2151	.0018	-.0370	-.0756	-.0772	.0633	.0509	.1464	.0694	.0753
180.000	1.7406	.2216	.2849	.8381	.6458	.2061	.0213	-.0147	-.0620	-.0716	.0921	.0250	.1914	.5659	.0843
198.000			.3149	.9023	.6885	.3074	.0478	-.0071	-.0391	-.0599	.1019	-.0271	.1942	.2050	.3231
213.000		.2314	.2978	.9153	.0000	.1214	-.0195	.0308	-.0387	-.0481	.0731	.0617	.1726	.2617	.2466
225.000			.4200	.9967	.8468	.3306	.0524	.0169	-.0155	-.0265	.1359	.1029	.0576	.0589	.1180
240.000		.2890	.3152	1.0282	.7232	.3286	.0649	.0361	-.0258	-.0283	.1617	.2162	.0182	-.0738	-.0651
270.000		.2967	.3173	1.0626	.7418	.3261	.0820	.0347	-.0226	-.0240	.2640	.8929	-.1793	-.1394	-.0439
300.000		.2758	.3191	1.0345	.7201	.3230	.0677	.0270	-.0265	-.0301	.1585	.2449	.0102	-.0985	-.0999
330.000		.2415	.3062	.9498	.6650	.0000	.0443	.0051	-.0471	-.0450	.1241	.0000		-.0054	-.0520

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0427	-.0409	-.0360	-.0418	-.1200
30.000	-.0260	-.0576	-.0416	-.0249	-.0214	-.1252
60.000	.0025	.0021	-.0294	-.0294	.1402	-.1214
90.000	-.0437	-.1016	-.0559	-.0534	.5785	-.1171
120.000	-.0024	.0174	-.0608	.0519	.0623	-.1122
135.000	-.0670	-.0655	-.0782	.0794	.1668	
147.000	.0021	-.0942	-.0768	.0905	.1466	-.1308
162.000	.0202	-.0465	-.1142	.0808	.1973	
180.000	.0115	.0128	-.0308	.0481	.3734	-.1421
198.000	-.0347	-.0740	.0015	-.0134	.4570	
213.000	.0118	.0097	.0272	.0856	.1927	.0000
225.000	.0490	.0317	.0064	.1112	.2065	
240.000	.0479	.0606	.0363	.0693	.2168	-.1414
270.000	.0021	-.0332	-.0798	-.0324	.6450	-.1273
300.000	-.0055	.0038	-.0315	-.0182	.1374	-.1268
330.000	.0000	-.0144	-.0131	-.0334	.0205	-.1347

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(4) = -.331 BETAT (5) = 6.631

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1284	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7350	.1548	.2868	.8263	.9918	.2175	.0152	-.0240	-.0617	-.0680	.0837	-.0578	-.0093	.0286	-.0045
30.000		.1391	.2653	.7003	.5054	.1848	-.0195	-.0579	-.0891	-.0942	.0363	-.0079	-.0386	-.0320	-.0017
60.000		.1835	.2635	.6322	.4573	.1276	-.0407	-.0753	-.1041	-.1078	.0201	.0173	-.0530	-.1051	-.1004
90.000		.2279	.2565	.5563	.4469	.1228	-.0481	-.0792	-.1076	-.1133	.1532	.7601	-.1767	-.1518	-.0347
120.000		.2244	.2534	.6287	.4549	.1315	-.0457	-.0736	-.1034	-.1097	.0230	.0341	.0117	-.0421	-.0372
135.000			.2471	.6837	.4712	.1370	-.0366	-.0705	-.0978	-.1009	.0194	.0624	.0397	.1884	.0111
147.000		.2146	.2377	.7155	.5019	.1547	-.0324	-.0589	-.0902	-.0945	.0303	.0428	.1218	.2117	.0142
162.000			.2396	.7518	.5358	.1977	-.0097	-.0429	-.0749	-.0853	.0405	.0463	.1358	.0265	.0413
180.000	1.7350	.2010	.2476	.8153	.6741	.1915	.0293	-.0203	-.0558	-.0669	.0890	.0411	.1658	.4565	.0729
198.000			.2709	.9240	.5918	.3008	.0782	-.0032	-.0182	-.0414	.1104	.0169	.1727	.1856	.4299
213.000		.2611	.2518	.9124	.0000	.1068	-.0408	.0455	-.0380	-.0464	.0932	.0813	.1752	.2222	.2604
225.000			.4022	1.0161	.9125	.3435	.0782	.0420	.0004	-.0124	.1739	.1180	.0470	.0496	.1229
240.000		.3285	.3106	1.0633	.7693	.3678	.1009	.0597	-.0039	-.0060	.2010	.2662	.0254	-.0677	-.0511
270.000		.3275	.3176	1.1985	.7920	.3803	.1166	.0653	.0057	.0060	.3334	.9286	-.1748	-.1406	-.0264
300.000		.3100	.3124	1.0700	.7570	.3685	.1002	.0524	-.0057	-.0081	.1989	.3110	.0206	-.0965	-.0938
330.000		.2890	.2845	.9951	.6804	.0000	.0614	.0201	-.0329	-.0336	.1392	.0000		-.0226	-.0635

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0562	-.0432	-.0460	-.0537	-.1226
30.000	-.0368	-.0566	-.0425	-.0279	-.0310	-.1275
60.000	.0080	-.0027	-.0370	-.0331	.1344	-.1247
90.000	-.0562	-.1033	-.0656	-.0547	.5855	-.1226
120.000	.0118	-.0101	-.0837	.0479	.0912	-.1159
135.000	-.0812	-.0767	-.1015	.0423	.1425	
147.000	-.0392	-.0750	-.0666	.0277	.1843	-.1258
162.000	-.0378	-.0726	-.1055	.0277	.2350	
180.000	-.0173	-.0223	-.0634	-.0095	.3108	-.1441
198.000	-.0583	-.1340	.0364	-.0060	.6663	
213.000	.0712	.0252	.0427	.1004	.2325	.0000
225.000	.0896	.0835	.0288	.1783	.2591	
240.000	.1226	.0998	.0688	.1021	.3033	-.1799
270.000	.0125	-.0174	-.0620	-.0470	.6047	-.1328
300.000	-.0003	.0098	-.0241	-.0307	.1276	-.1289
330.000	.0000	-.0202	-.0220	-.0410	.0131	-.1430

ARC87-019 IABI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(5) = 1.783 BETAT (1) = -6.278

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.7381	.1912	.2817	.9074	.7855	.2695	.0473	.0048	-.0381	-.0453	.1257	-.0317	-.0034	.0540	.0315
30.000		.2953	.2813	1.0426	.6938	.3344	.0898	.0398	-.0088	-.0170	.1784	.0294	.0563	.0146	-.0273
60.000		.3121	.2948	1.0856	.7740	.3738	.1129	.0583	.0047	-.0010	.2058	.3449	-.0038	-.0666	-.0860
90.000		.3018	.2887	1.0782	.7712	.3688	.1023	.0538	.0047	-.0028	.4057	.7278	-.1792	-.1277	-.0314
120.000		.2866	.2614	1.0094	.7130	.3215	.0792	.0325	-.0131	-.0218	.1706	.2992	-.0363	-.0966	-.0690
135.000			.2429	.9438	.6703	.2962	.0649	.0171	-.0287	-.0386	.1358	.0944	.0231	.0094	.0176
147.000		.2782	.2368	.8905	.6413	.2695	.0391	-.0007	-.0419	-.0488	.1190	.0441	.0577	.1231	.1643
162.000			.2507	.8277	.5940	.2278	.0276	-.0110	-.0572	-.0680	.0848	.0067	.1566	.2622	.1660
180.000	1.7381	.2649	.2667	.7635	.5477	.2014	-.0021	-.0338	-.0743	-.0793	.0649	.0612	.1426	.4725	.0860
198.000			.2832	.7102	.6507	.1858	-.0233	-.0481	-.0864	-.0913	.0431	.0657	.1290	.0708	.2664
213.000		.2492	.2709	.5119	.0000	.0382	-.0719	-.0398	-.0889	-.0910	-.0240	.0287	.1182	.1506	.1288
225.000			.2942	.6610	.5404	.1778	-.0240	-.0704	-.0935	-.0952	.0203	.0787	.0167	.1344	.0502
240.000		.2296	.2612	.6080	.5001	.1354	-.0387	-.0704	-.1056	-.1037	.0094	.0643	-.0070	-.0704	-.0446
270.000		.2233	.2640	.6076	.4760	.1375	-.0401	-.0690	-.1069	-.1062	.0603	.7691	-.1685	-.1336	-.0290
300.000		.1950	.2587	.7134	.5012	.1639	-.0209	-.0520	-.0920	-.0942	.0294	.0378	.0833	-.0526	-.0787
330.000		.1615	.2545	.7848	.5712	.0000	.0039	-.0294	-.0722	-.0718	.0698	.0000		.0005	.0253

X/LT	.5528	.6340	.7423	.8508	.9264	.9838
PHI						
.000	.0000	-.0230	-.0295	-.0202	-.0327	-.1237
30.000	-.0358	-.0063	.0043	-.0077	.0222	-.1262
60.000	.0031	.0388	.0082	-.0003	.1360	-.1255
90.000	.0690	.0207	-.0700	-.0480	.4354	-.1283
120.000	.0412	.0654	.0574	.0592	.3741	-.1206
135.000	.0447	.0462	.0207	.2919	.3192	
147.000	.0353	.0263	.0410	.1277	.4184	-.1841
162.000	.0457	.0022	.0435	.0233	.5768	
180.000	.0558	-.0215	-.0237	.0595	.4684	-.1880
198.000	.0541	-.0994	-.0699	.0223	.4191	
213.000	-.1198	-.0941	-.0644	.0205	-.0083	.0000
225.000	-.0348	-.0257	-.0626	.0350	.1345	
240.000	.0315	-.0117	-.0609	.0353	.0871	-.1237
270.000	.0575	.0082	-.0400	.0559	.3280	-.1223
300.000	-.0316	.0343	-.0198	-.0504	.0871	-.1223
330.000	.0000	-.0477	-.0226	-.0256	-.0172	-.1255

ARC87-019 IA81 LVAP(ALLML SEALED) EXTERNAL TANK (RETT38)

ALPHAT(5) = 1.789 BETAT (2) = -1.969

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1954	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7471	.1618	.3227	.9345	.8941	.2802	.0497	.0061	-.0385	-.0467	.1314	-.0278	-.0060	.0822	.0631
30.000		.1883	.3880	.9457	.6869	.2969	.0607	.0141	-.0316	-.0375	.1427	.0034	.0429	.0151	.0048
60.000		.2749	.2927	.9391	.6901	.2951	.0604	.0108	-.0336	-.0400	.1363	.1826	-.0172	-.0701	-.0966
90.000		.2920	.2881	.9183	.6712	.2746	.0424	.0012	-.0402	-.0471	.2654	.6309	-.1635	-.1282	-.0723
120.000		.2833	.2902	.8608	.6390	.2472	.0329	-.0082	-.0531	-.0602	.1083	.1993	-.0378	-.1218	-.1209
135.000			.2920	.8471	.6169	.2424	.0193	-.0214	-.0587	-.0634	.0974	.0778	-.0049	-.0044	.0499
147.000		.2763	.2951	.8372	.6103	.2427	.0141	-.0227	-.0611	-.0690	.0925	.0562	.1295	.2391	.1026
162.000			.3039	.8179	.5793	.1994	.0037	-.0333	-.0680	-.0743	.0823	.0485	.1469	.2186	.1012
180.000	1.7471	.2665	.3081	.7960	.5585	.2185	.0005	-.0382	-.0712	-.0779	.0771	.0764	.1459	.5262	.1276
198.000			.3147	.7770	.6981	.2306	-.0141	-.0347	-.0736	-.0821	.0487	.0387	.1302	.0972	.2650
213.000		.2477	.3234	.7157	.0000	.0680	-.0504	-.0229	-.0719	-.0807	.0003	.0513	.1487	.1960	.2043
225.000			.3619	.7688	.6649	.2323	-.0002	-.0462	-.0715	-.0704	.0318	.0761	.0742	.1019	.1182
240.000		.2714	.3234	.7783	.5753	.2011	-.0099	-.0409	-.0846	-.0818	.0683	.0942	-.0099	-.0917	-.0664
270.000		.2494	.3240	.8297	.5805	.1994	-.0005	-.0354	-.0797	-.0782	.1220	.8212	-.1577	-.1327	-.0594
300.000		.1981	.3359	.8518	.5994	.2261	.0127	-.0222	-.0673	-.0708	.0904	.1012	.0875	-.0574	-.0886
330.000		.1325	.3998	.8955	.6350	.0000	.0302	-.0072	-.0538	-.0530	.1118	.0000		.0065	.0032

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0068	-.0309	-.0032	-.0089	-.1137
30.000	-.0089	-.0162	.0029	-.0014	-.0074	-.1175
60.000	-.0564	.0393	.0109	-.0032	.1395	-.1098
90.000	.0729	.0049	-.0539	-.0376	.5416	-.1109
120.000	.0497	.0363	.0067	.0242	.3246	-.1158
135.000	-.0214	-.0069	-.0177	.2461	.3044	
147.000	.0070	-.0268	-.0400	.1180	.3356	-.1502
162.000	.0815	-.0254	-.0455	.1385	.4326	
180.000	.0372	-.0250	-.1080	.1281	.3405	-.1474
198.000	.0400	.0286	-.0452	.0902	.2580	
213.000	-.1015	-.0773	-.0567	.0864	.0913	.0000
225.000	-.0328	.0015	-.0685	.0938	.1504	
240.000	.0472	.0227	-.0306	.0354	.1720	-.1217
270.000	.0736	-.0006	-.0337	-.0379	.4464	-.1179
300.000	-.0516	.0426	.0052	-.0195	.1313	-.1186
330.000	.0000	-.0327	-.0101	-.0156	-.0038	-.1221

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(5) = 1.810 BETAT (3) = 2.374

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.7410	.1724	.3317	.9359	1.0062	.2744	.0453	.0014	-.0399	-.0483	.1301	-.0304	-.0039	.0680	.0515
30.000		.1375	.4112	.8591	.6298	.2408	.0291	-.0149	-.0535	-.0607	.1066	-.0252	.0390	.0123	.0265
60.000		.2034	.2986	.8130	.5787	.2120	.0103	-.0327	-.0691	-.0763	.0754	.0982	.0108	-.0768	-.0963
90.000		.2644	.2972	.7728	.5529	.1874	-.0125	-.0473	-.0784	-.0840	.1774	.6012	-.1584	-.1422	-.0627
120.000		.2801	.3031	.7341	.5413	.1697	-.0174	-.0550	-.0878	-.0946	.0519	.1095	-.0335	-.1216	-.0651
135.000			.3056	.7457	.5351	.1909	-.0184	-.0526	-.0843	-.0957	.0446	.0753	.0090	.0982	.0397
147.000		.2815	.3021	.7559	.5445	.1739	-.0142	-.0512	-.0868	-.0922	.0516	.0749	.1126	.2189	.0782
162.000			.3030	.7783	.5508	.1784	-.0160	-.0427	-.0836	-.0908	.0544	.0729	.1083	.1769	.1160
180.000	1.7410	.2519	.3057	.8010	.5623	.1871	-.0125	-.0344	-.0777	-.0854	.0575	.0676	.1608	.6000	.0771
198.000			.3124	.8369	.7119	.2526	-.0006	-.0261	-.0618	-.0784	.0712	-.0060	.1908	.1240	.3106
213.000		.2435	.3162	.8270	.0000	.0887	-.0369	.0020	-.0576	-.0649	.0326	.0422	.1490	.2485	.2169
225.000			.3881	.8769	.7637	.2557	.0161	-.0129	-.0444	-.0497	.0929	.0683	.0367	.0258	.0802
240.000		.2679	.3266	.9084	.6210	.2647	.0297	-.0025	-.0522	-.0554	.1181	.1695	-.0190	-.1092	-.1015
270.000		.2644	.3259	.9807	.6686	.2758	.0544	.0131	-.0405	-.0423	.2103	.8669	-.1665	-.1341	-.0578
300.000		.2763	.3242	1.0080	.6892	.2986	.0642	.0228	-.0327	-.0352	.1521	.1820	.0683	-.0623	-.0915
330.000		.2582	.3259	1.0034	.6913	.0000	.0572	.0173	-.0349	-.0297	.1493	.0000		.0102	.0002

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0137	-.0385	-.0100	-.0154	-.1163
30.000	-.0033	-.0351	-.0158	-.0083	-.0136	-.1177
60.000	-.0578	.0383	-.0002	-.0235	.1211	-.1159
90.000	.0580	.0138	-.0224	-.0482	.4896	-.1152
120.000	.0054	.0134	-.0364	.0302	.1452	-.1166
135.000	-.0504	-.0639	-.0736	.1201	.2032	
147.000	.0172	-.0799	-.0604	.1121	.1745	-.1313
162.000	.0338	-.0315	-.1044	.1055	.2612	
180.000	.0535	-.0117	-.0933	.1014	.2753	-.1334
198.000	-.0185	.0249	-.0124	.0757	.3432	
213.000	-.0244	-.0235	-.0017	.1007	.1901	.0030
225.000	.0040	.0078	-.0215	.1275	.2092	
240.000	.0563	.0374	.0066	.0550	.2053	-.1261
270.000	.0812	.0061	-.0676	-.0193	.3588	-.1170
300.000	-.0324	.0259	.0070	-.0034	.1487	-.1170
330.000	.0000	-.0277	.0101	-.0087	.0156	-.1222

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(5) = 1.030 BETAT (4) = 6.621

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.7317	.1775	.3203	.9204	1.0602	.2678	.0470	.0048	-.0393	-.0384	.1217	-.0373	-.0097	.0341	.0135
30.000		.1043	.2903	.7570	.5951	.1945	.0009	-.0383	-.0739	-.0725	.0587	-.0320	.0210	.0122	.0097
60.000		.1569	.2513	.6652	.4789	.1426	-.0299	-.0844	-.0944	-.0921	.0230	.0412	.0440	-.0665	-.0773
90.000		.2088	.2576	.5780	.4453	.1159	-.0501	-.0786	-.1055	-.1016	.1031	.7488	-.1608	-.1518	-.0284
120.000		.2221	.2548	.5466	.4397	.1166	-.0540	-.0793	-.1051	-.1047	.0100	.0765	-.0327	-.0798	-.0572
135.000			.2520	.6131	.4408	.1246	-.0453	-.0759	-.1051	-.1005	.0076	.0580	.0224	.1354	-.0198
147.000		.2133	.2457	.6578	.4615	.1232	-.0435	-.0703	-.0982	-.0960	.0132	.0458	.1145	.1863	.0423
162.000			.2466	.7004	.4837	.1627	-.0255	-.0583	-.0888	-.0900	.0212	.0500	.1013	.0327	.0381
180.000	1.7317	.2113	.2386	.7475	.6021	.1578	.0002	-.0414	-.0736	-.0746	.0559	.0514	.1341	.3740	.0354
198.000			.2299	.8422	.5113	.2513	.0510	-.0289	-.0372	-.0454	.0797	.0503	.1407	.1800	.3776
213.000		.2820	.2341	.8271	.0000	.0504	-.0627	.0162	-.0611	-.0637	.0548	.0517	.1379	.2009	.2323
225.000			.3539	.9704	.8147	.2853	.0593	.0231	-.0118	-.0219	.1484	.0817	.0070	.0069	.0479
240.000		.3200	.3129	1.0343	.7155	.3452	.0864	.0429	-.0086	-.0100	.1777	.2530	-.0073	-.0950	-.0808
270.000		.3252	.3247	1.1091	.7945	.3798	.1212	.0699	.0167	.0139	.3275	.9267	-.1592	-.1394	-.0371
300.000		.3273	.3299	1.1045	.8014	.3923	.1233	.0716	.0202	.0163	.2274	.3033	.0703	-.0586	-.0836
330.000		.3046	.3132	1.0584	.7436	.0000	.0937	.0487	.0016	-.0106	.1812	.0000		.0156	-.0318

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0322	-.0331	-.0258	-.0300	-.1197
30.000	-.0207	-.0419	-.0268	-.0209	-.0142	-.1197
60.000	-.0131	.0361	-.0282	-.0411	.1025	-.1165
90.000	.0465	.0112	-.0421	-.0438	.3908	-.1116
120.000	-.0173	-.0212	-.0825	.0642	.1693	-.1091
135.000	-.0855	-.0923	-.0965	.0573	.1584	
147.000	-.0436	-.0836	-.0784	.0374	.1848	-.1298
162.000	-.0440	-.0822	-.1189	.0332	.2058	
180.000	-.0283	-.0393	-.0819	.0298	.2836	-.1449
198.000	-.0793	-.1446	.0360	-.0272	.6222	
213.000	.0788	.0178	.0440	.0770	.2302	.0000
225.000	.0978	.0593	.0235	.1708	.2534	
240.000	.0819	.0753	.0603	.0867	.3743	-.1351
270.000	.0736	.0467	-.0529	-.0363	.3423	-.1242
300.000	-.0034	.0328	.0131	.0069	.1584	-.1190
330.000	.0000	-.0198	.0027	-.0096	.0256	-.1249

ARC97-019 1A81 LVAP(ALLML SEALED) EXTERNAL TANK (RETT38)

ALPHAT(6) = 3.370 BETAT (1) = -6.270

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.7378	.1936	.3427	1.0150	.8543	.3177	.0753	.0331	-.0144	-.0231	.1678	-.0088	.0135	.0636	.0484
30.000		.3236	.3208	1.1054	.7890	.3776	.1203	.0685	.0154	.0052	.2186	.0410	.0937	.0413	.0104
60.000		.3274	.3243	1.1195	.8113	.4004	.1324	.0758	.0188	.0119	.2298	.3269	.0452	-.0265	-.0592
90.000		.2981	.2932	1.0730	.7687	.3706	.1047	.0550	.0067	-.0022	.3942	.7450	-.1737	-.1269	-.0696
120.000		.2674	.2382	.9556	.6752	.2972	.0637	.0205	-.0248	-.0358	.1443	.2537	-.0677	-.1287	-.0893
135.000			.2194	.8725	.6200	.2584	.0449	.0025	-.0446	-.0556	.1048	.0574	-.0182	-.0386	-.0371
147.000		.2594	.2232	.8170	.5858	.2273	.0216	-.0198	-.0619	-.0704	.0841	.0257	.0602	.0813	.1135
162.000			.2458	.7544	.5422	.1965	-.0017	-.0311	-.0740	-.0870	.0462	.0288	.1383	.2315	.1481
180.000	1.7378	.2497	.2673	.6938	.4996	.1605	-.0268	-.0539	-.0876	-.0969	.0301	.0484	.1456	.4102	.0786
198.000			.2680	.6488	.6102	.1549	-.0421	-.0629	-.0976	-.1026	.0175	.0445	.1182	.0417	.2475
213.000		.2427	.2701	.4308	.0000	.0216	-.0842	-.0560	-.0993	-.1054	-.0368	.0240	.1112	.1456	.1215
225.000			.2825	.5701	.4769	.1539	-.0382	-.0789	-.1008	-.1026	-.0074	.0669	.0215	.0945	.0381
240.000		.2274	.2576	.5086	.4867	.1265	-.0452	-.0747	-.1118	-.1125	.0200	.0522	-.0383	-.1073	-.0627
270.000		.1747	.2541	.6542	.4641	.1300	-.0421	-.0685	-.1050	-.1061	.0589	.7080	-.1825	-.1225	-.0962
300.000		.1172	.2707	.7087	.5160	.1764	-.0118	-.0439	-.0870	-.0895	.0427	.0383	.1317	-.0166	-.0471
330.000		.0977	.3412	.8557	.6141	.0000	.0247	-.0120	-.0563	-.0547	.0984	.0000		.0422	.0458

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0002	-.0179	-.0003	-.0131	-.1164
30.000	-.0113	-.0006	.0273	.0184	.0357	-.1202
60.000	-.0179	.0479	.0394	.0364	.1226	-.1143
90.000	.0728	.0849	.0391	.0248	.4542	-.1188
120.000	.0199	.0561	.0474	.0627	.4188	-.1171
135.000	.0590	.0387	.0405	.3145	.3432	
147.000	.0465	.0307	.0478	.1379	.4174	-.1535
162.900	.0282	.0015	.0267	.0191	.5736	
180.000	.0445	-.0270	-.0249	.0755	.4641	-.1612
198.000	.0341	-.1013	-.0436	.0502	.4344	
213.000	-.1228	-.0989	-.0415	.0492	.0272	.0000
225.000	-.0501	-.0315	-.0405	.0647	.1682	
240.000	.0112	-.0103	-.0516	.0686	.1325	-.1209
270.000	.0964	.0676	-.0357	.0710	.3156	-.1178
300.000	-.0245	.0481	-.0076	-.0410	.1021	-.1171
330.000	.0000	-.0242	-.0038	-.0177	-.0169	-.1195

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(8) = 3.369 BETAT (2) = -4.206

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7509	.1823	.3104	1.0345	.8990	.3186	.0743	.0292	-.0197	-.0275	.1654	-.0089	.0116	.0807	.0685
30.000		.2500	.3798	1.0733	.7690	.3560	.0969	.0466	.0004	-.0077	.2001	.0233	.0870	.0372	.0182
60.000		.3139	.2891	1.0814	.7739	.3536	.1045	.0508	-.0017	-.0070	.1959	.2453	.0336	-.0318	-.0668
90.000		.3086	.2605	1.0303	.7253	.3141	.0703	.0243	-.0180	-.0240	.3285	.6967	-.1814	-.1240	-.0776
120.000		.2908	.2531	.8884	.6446	.2524	.0362	-.0060	-.0475	-.0508	.1180	.2256	-.0742	-.1324	-.0898
135.000			.2577	.8356	.6048	.2289	.0209	-.0209	-.0617	-.0696	.0858	.0504	-.0023	-.0290	-.0151
147.000		.2727	.2629	.7993	.5779	.2115	-.0007	-.0370	-.0725	-.0766	.0717	.0319	.1090	.1458	.0949
162.000			.2785	.7529	.5422	.1845	-.0112	-.0454	-.0832	-.0894	.0493	.0458	.1280	.2429	.1233
180.000	1.7509	.2615	.2816	.7103	.5041	.1693	-.0255	-.0579	-.0937	-.0982	.0346	.0507	.1179	.4923	.0636
198.000			.2771	.6592	.6394	.1779	-.0408	-.0624	-.0937	-.1010	.0167	.0189	.1176	.0894	.2114
213.000		.2469	.2893	.5349	.0000	.0373	-.0770	-.0475	-.0930	-.1060	-.0303	.0343	.1235	.1559	.0886
225.000			.3119	.5887	.5219	.1779	-.0272	-.0656	-.0894	-.0936	-.0005	.0612	.0483	.0702	.0733
240.000		.2413	.2830	.6051	.5230	.1457	-.0328	-.0614	-.1010	-.1018	.0303	.0633	-.0492	-.1217	-.0738
270.000		.1865	.2837	.7218	.5017	.1596	-.0230	-.0524	-.0919	-.0929	.0893	.7640	-.1777	-.1238	-.1314
300.000		.1233	.3188	.7690	.5576	.2056	.0066	-.0263	-.0721	-.0749	.0763	.0772	.1420	-.0207	-.0568
330.000		.1010	.3522	.9001	.6443	.0000	.0348	-.0006	-.0484	-.0454	.1198	.0000		.0341	.0478

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	.0072	-.0178	.0057	-.0033	-.1082
30.000	-.0011	.0007	.0223	.0161	.0115	-.1085
60.000	-.0302	.0308	.0362	.0217	.1155	-.1120
90.000	.0499	.0599	.0344	.0325	.3420	-.1233
120.000	.0013	.0362	.0205	.0304	.3466	-.1271
135.000	.0260	.0101	.0027	.2811	.3307	
147.000	-.0045	.0111	.0216	.1206	.3682	-.1499
162.000	.0211	-.0255	.0238	.0390	.5331	
180.000	.0353	-.0150	-.0627	.0877	.4159	-.1590
198.000	.0620	-.0425	-.0627	.0706	.3349	
213.000	-.1273	-.0938	-.0714	.0644	.0653	.0000
225.000	-.0572	-.0234	-.0818	.0784	.1872	
240.000	.0149	.0082	-.0391	.0588	.1782	-.1212
270.000	.0929	.0742	-.0089	-.0196	.3158	-.1198
300.000	-.0337	.0515	.0116	-.0288	.1070	-.1194
330.000	.0000	-.0196	.0015	-.0076	-.0068	-.1163

ARC97-019 IABI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(8) = 3.375 & BETAT (3) = .196

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4448	.4987
PHI															
.000	1.7571	.1474	.3898	1.0344	.8908	.3254	.0750	.0284	-.0192	-.0259	.1728	-.0109	.0093	.0888	.0787
30.000		.1226	.6908	.9787	.7055	.3028	.0660	.0183	-.0258	-.0337	.1543	-.0022	.0746	.0359	.0349
60.000		.1655	.3641	.8955	.8524	.2671	.0448	-.0023	-.0442	-.0517	.1133	.1393	.0704	-.0355	-.0748
90.000		.2395	.2755	.8335	.5992	.2255	.0120	-.0267	-.0847	-.0719	.2080	.5970	-.1740	-.1247	-.1362
120.000		.2699	.2929	.7651	.5457	.1839	-.0068	-.0427	-.0796	-.0871	.0596	.1437	-.0798	-.1522	-.1275
135.000			.2957	.7478	.5216	.1790	-.0180	-.0546	-.0848	-.0910	.0449	.0568	-.0001	-.0083	.0138
147.000		.2723	.2968	.7299	.5195	.1766	-.0211	-.0528	-.0873	-.0974	.0428	.0693	.1074	.2034	.0731
162.000			.3030	.7091	.5132	.1457	-.0302	-.0588	-.0897	-.0981	.0389	.0543	.1045	.1589	.1165
180.000	1.7571	.2695	.3065	.6844	.5276	.1700	-.0298	-.0560	-.0883	-.0960	.0452	.0526	.1411	.4417	.1266
198.000			.3072	.7013	.5975	.2068	-.0316	-.0491	-.0868	-.0963	.0403	.0295	.1693	.1122	.2238
213.000		.2681	.3103	.6985	.0000	.0653	-.0581	-.0293	-.0793	-.0882	-.0064	.0299	.1306	.1843	.1537
225.000			.3485	.7555	.6796	.2002	-.0162	-.0442	-.0715	-.0740	.0470	.0355	.0011	.0127	.0967
240.000		.2716	.3214	.8101	.5534	.2227	-.0012	-.0355	-.0779	-.0825	.0708	.1210	-.0585	-.1376	-.1234
270.000		.2360	.3169	.8810	.6136	.2449	.0225	-.0119	-.0588	-.0634	.1473	.8298	-.1526	-.1407	-.1352
300.000		.1481	.3913	.9188	.6754	.2830	.0528	.0124	-.0386	-.0432	.1315	.1458	.1272	-.0293	-.0675
330.000		.1233	.6372	1.0174	.7158	.0000	.0685	.0263	-.0259	-.0243	.1628	.0000		.0256	.0160

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	.0129	-.0211	.0090	.0055	-.1088
30.000	.0129	-.0044	.0030	.0076	-.0037	-.1159
60.000	-.0454	.0347	.0270	-.0029	.1238	-.1102
90.000	.0660	.0800	.0159	-.0202	.4484	-.1141
120.000	.0083	.0187	-.0166	.0524	.1735	-.1215
135.000	-.0311	-.0420	-.0507	.1889	.2489	
147.000	.0136	-.0699	-.0445	.1684	.2153	-.1355
162.000	.0282	-.0270	-.0869	.1524	.2677	
180.000	.0302	-.0075	-.1175	.1285	.2355	-.1355
198.000	.0313	.0330	-.0296	.1125	.1820	
213.000	-.0977	-.0650	-.0390	.1267	.1486	.0000
225.000	-.0367	.0044	-.0355	.1249	.1873	
240.000	.0181	.0218	-.0084	.0491	.2131	-.1464
270.000	.0739	.0779	.0131	-.0066	.3924	-.1148
300.000	-.0409	.0417	.0319	-.0019	.1334	-.1134
330.000	.0000	-.0030	.0110	.0018	.0070	-.1194

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(81) = 3.395 BETAT (4) = 3.898

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7362	.1894	.3410	1.0447	.9397	.3155	.0751	.0292	-.0174	-.0285	.1635	-.0164	.0056	.0613	.0521
30.000		.0924	.3993	.8794	.6300	.2558	.0359	-.0113	-.0511	-.0569	.1041	-.0223	.0560	.0390	.0375
60.000		.1140	.3001	.7500	.5394	.1903	-.0023	-.0440	-.0796	-.0859	.0560	.0623	.1377	-.0335	-.0609
90.000		.1912	.2519	.6914	.4834	.1459	-.0371	-.0674	-.0959	-.1005	.1266	.6260	-.1712	-.1082	-.0978
120.000		.2278	.2687	.6036	.4560	.1243	-.0447	-.0772	-.1063	-.1107	.0188	.0811	-.0706	-.1427	-.0752
135.000			.2673	.5775	.4487	.1410	-.0458	-.0737	-.1043	-.1143	.0145	.0598	.0203	.0645	-.0143
147.000		.2373	.2645	.5955	.4650	.1236	-.0465	-.0789	-.1060	-.1111	.0110	.0469	.1038	.1928	.0194
162.000			.2740	.6481	.4785	.1403	-.0420	-.0705	-.1036	-.1075	.0114	.0423	.0917	.0031	.0949
180.000	1.7362	.2250	.2701	.6950	.5394	.1289	-.0245	-.0559	-.0924	-.1029	.0265	.0444	.1287	.3927	.0855
198.000			.2614	.7503	.5072	.2135	.0062	-.0532	-.0688	-.0849	.0440	.0486	.1234	.1489	.3585
213.000		.2470	.2607	.7362	.0000	.0463	-.0894	-.0236	-.0824	-.0927	.0107	.0217	.1049	.1273	.2184
225.000			.3474	.8396	.7529	.2322	.0079	-.0188	-.0548	-.0647	.0883	.0455	-.0196	-.0324	.0316
240.000		.2750	.3032	.9282	.6496	.2936	.0365	.0035	-.0459	-.0530	.1143	.2049	-.0573	-.1291	-.0964
270.000		.3148	.3067	1.0654	.7438	.3318	.0787	.0393	-.0179	-.0250	.2453	.8863	-.1469	-.1378	-.0856
300.000		.3263	.3237	1.1074	.7851	.3755	.1004	.0563	.0005	-.0048	.2035	.2440	.1182	-.0282	-.0620
330.000		.3001	.3456	1.1025	.7812	.0000	.1035	.0570	-.0030	-.0037	.1993	.0000		.0361	.0145

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0036	-.0191	-.0003	-.0105	-.1164
30.000	.0058	-.0195	-.0062	-.0076	-.0034	-.1125
60.000	-.0379	.0409	.0011	-.0275	.0777	-.1108
90.000	.0811	.0896	-.0090	-.0295	.3236	-.1090
120.000	-.0313	-.0048	-.0599	.0660	.1766	-.1094
135.000	-.0605	-.0874	-.0923	.1123	.1828	
147.000	-.0230	-.0892	-.0616	.1095	.1458	-.1284
162.000	-.0116	-.0683	-.0827	.0942	.1536	
180.000	-.0063	-.0188	-.0535	.0813	.3796	-.1396
198.000	-.0452	-.0578	.0052	.0532	.5915	
213.000	-.0057	-.0003	.0372	.1046	.2166	.0000
225.000	.0513	.0178	.0056	.1543	.2287	
240.000	.0818	.0345	.0257	.0650	.3459	-.1147
270.000	.0704	.0819	.0282	.0377	.3392	-.1199
300.000	-.0303	.0335	.0323	.0182	.1252	-.1203
330.000	.0000	-.0083	.0257	.0097	.0284	-.1227

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(6) = 3.404 BETAT (6) = 6.635

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2881	.3382	.3904	.4445	.4987
PHI															
.000	1.7372	.1808	.3574	1.0082	.9222	.3105	.0714	.0283	-.0172	-.0284	.1587	-.0189	.0032	.0443	.0294
30.000		.0783	.3644	.8309	.5869	.2288	.0186	-.0237	-.0610	-.0678	.0802	-.0316	.0469	.0384	.0340
60.000		.1038	.2410	.6756	.4794	.1545	-.0278	-.0617	-.0934	-.0997	.0289	.0268	.1567	-.0307	-.0505
90.000		.1567	.2340	.6038	.4370	.1096	-.0533	-.0820	-.1087	-.1125	.0939	.6650	-.1764	-.1022	-.0564
120.000		.2128	.2434	.4991	.4095	.1058	-.0624	-.0907	-.1153	-.1203	.0096	.0669	-.0586	-.1204	-.0728
135.000			.2455	.5104	.4113	.1121	-.0600	-.0862	-.1149	-.1196	-.0084	.0448	-.0097	.0907	-.0321
147.000		.2165	.2403	.5630	.4252	.0937	-.0628	-.0893	-.1125	-.1174	-.0028	.0389	.0920	.1678	.0479
162.000			.2415	.6244	.4450	.1274	-.0478	-.0770	-.1045	-.1135	-.0084	.0417	.0778	.0216	.0197
180.000	1.7372	.2140	.2331	.6781	.5487	.1295	-.0265	-.0628	-.0937	-.1015	.0219	.0417	.1385	.3290	.0197
198.000			.2185	.7603	.4488	.2177	.0182	-.0537	-.0607	-.0710	.0444	.0462	.1260	.0698	.4123
213.000		.2780	.2240	.7348	.0000	.0182	-.0834	-.0134	-.0795	-.0937	.0282	.0476	.1026	.0754	.1957
225.000			.3143	.9103	.7551	.2448	.0283	.0033	-.0459	-.0515	.1175	.0466	-.0272	-.0450	-.0366
240.000		.3102	.3125	.9909	.6714	.3296	.0674	.0235	-.0289	-.0342	.1474	.2249	-.0474	-.1236	-.0846
270.000		.3263	.3174	1.0536	.7803	.3811	.1153	.0666	.0062	.0041	.3123	.9278	-.1388	-.1340	-.0575
300.000		.3388	.3481	1.0929	.8276	.4144	.1411	.0906	.0247	.0183	.2469	.3011	.1179	-.0255	-.0551
330.000		.3193	.3407	1.0624	.8001	.0000	.1202	.0708	.0140	.0110	.2188	.0000		.0461	-.0002

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	-.0123	-.0226	-.0075	-.0174	-.1206
30.000	-.0036	-.0301	-.0087	-.0141	-.0252	-.1125
60.000	-.0353	.0287	-.0153	-.0332	.0904	-.1136
90.000	.0916	.0563	-.0380	.0666	.2762	-.1104
120.000	-.0332	-.0198	-.0757	.0913	.2099	-.1094
135.000	-.0838	-.0984	-.0956	.0798	.1904	
147.000	-.0547	-.0903	-.0561	.0628	.1935	-.1301
162.000	-.0572	-.0910	-.1090	.0537	.2077	
180.000	-.0294	-.0554	-.0503	.0600	.2762	-.1350
198.000	-.0950	-.1493	.0325	-.0078	.5592	
213.000	.0798	.0186	.0499	.1135	.2765	.0000
225.000	.1277	.0661	.0348	.1982	.3127	
240.000	.0123	.0615	.0569	.0675	.4378	-.1167
270.000	.0499	.0982	.0464	.0379	.2847	-.1213
300.000	-.0196	.0329	.0429	.0308	.1280	-.1241
330.000	.0000	-.0149	.0210	.0102	.0295	-.1259

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(7) = 8.211 BETAT (1) = -4.185

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2584	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7524	.1701	.3683	1.1136	.8959	.3645	.1033	.0581	.0014	.0013	.2041	.0121	.0291	.0923	.0881
30.000		.1785	.6467	1.1062	.8257	.4002	.1248	.0724	.0207	.0220	.2353	.0388	.1190	.0624	.0382
60.000		.2516	.3871	1.0861	.7936	.3749	.1185	.0627	.0068	.0097	.2108	.2612	.0981	.0054	-.0364
90.000		.2798	.2544	1.0094	.7137	.3087	.0690	.0227	-.0224	-.0194	.3239	.6841	-.1846	-.1344	-.1235
120.000		.2673	.2213	.8419	.6072	.2218	.0185	-.0207	-.0608	-.0576	.0889	.1870	-.1156	-.1625	-.1423
135.000			.2328	.7793	.5510	.1895	-.0006	-.0360	-.0761	-.0744	.0549	.0113	-.0459	-.0895	-.0854
147.000		.2558	.2499	.7381	.5231	.1695	-.0207	-.0544	-.0903	-.0871	.0381	.0186	.0796	.0895	.0604
162.000			.2684	.6857	.4875	.1466	-.0367	-.0643	-.0986	-.0972	.0171	.0395	.0992	.2195	.1138
180.000	1.7524	.2519	.2732	.6357	.4549	.1293	-.0485	-.0768	-.1077	-.1025	.0086	.0388	.1361	.4148	.0604
198.000			.2763	.5601	.6041	.1494	-.0593	-.0789	-.1073	-.1039	.0030	.0305	.1003	.0450	.2040
213.000		.2397	.2843	.4921	.0000	.0271	-.0892	-.0629	-.1059	-.1084	-.0432	.0371	.1166	.1395	.1030
225.000			.3000	.5046	.4990	.1480	-.0458	-.0789	-.0944	-.0962	-.0152	.0507	.0207	.0489	.0413
240.000		.2234	.2708	.5933	.4639	.1258	-.0454	-.0730	-.1007	-.1011	.0167	.0765	-.0860	-.1520	-.0850
270.000		.1575	.2791	.6952	.4899	.1594	-.0256	-.0567	-.0853	-.0878	.0857	.7248	-.1663	-.1270	-.1284
300.000		.1056	.2847	.7968	.5734	.2211	.0168	-.0196	-.0576	-.0622	.0833	.0929	.1906	.0149	-.0208
330.000		.0927	.4156	1.0020	.6919	.0000	.0592	.0189	-.0243	-.0313	.1477	.0000		.0600	.0670

X/LT	.5528	.6340	.7423	.8508	.9264	.9838
PHI						
.000	.0000	.0307	.0041	.0204	.0220	-.1216
30.000	.0258	.0237	.0312	.0333	.0283	-.1195
60.000	-.0029	.0203	.0493	.0312	.1979	-.1044
90.000	.0224	.0802	.0454	.0388	.5128	-.1062
120.000	-.0043	.0270	.0155	.0537	.3710	-.1398
135.000	.0241	-.0071	.0142	.2949	.3847	
147.000	-.0088	.0034	.0232	.1315	.4001	-.1507
162.000	-.0022	-.0363	.0197	.0669	.5943	
180.000	.0158	-.0290	-.0469	.1099	.4731	-.1451
198.000	.0365	-.0502	-.0472	.0843	.3482	
213.000	-.1368	-.1034	-.0458	.0822	.1063	.0000
225.000	-.0659	-.0252	-.0604	.1112	.1972	
240.000	-.0126	.0082	-.0368	.0919	.2133	-.1160
270.000	.0947	.1032	-.0181	-.0128	.4878	-.1171
300.000	-.0105	.0319	.0249	-.0079	.1389	-.1195
330.000	.0000	.0027	.0166	.0122	.0014	-.1223

ARC87-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT3B)

ALPHAT(7) = 6.218 BETAT (2) = -1.956

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1284	.1944	.2184	.2324	.2584	.2824	.3362	.3804	.4445	.4987
PHI															
.000	1.7573	.1518	.4412	1.1273	1.0445	.3711	.1108	.0607	.0063	-.0038	.2127	.0098	.0259	.0884	.0994
30.000		.1497	.7817	1.0862	.8022	.3770	.1132	.0590	.0056	-.0019	.2127	.0243	.1082	.0633	.0436
60.000		.1796	.4198	1.0074	.7382	.3351	.0834	.0343	-.0155	-.0238	.1850	.2067	.1263	.0049	-.0400
90.000		.2326	.2531	.8969	.6464	.2672	.0378	-.0050	-.0464	-.0545	.2589	.6297	-.1871	-.1264	-.1308
120.000		.2663	.2541	.7633	.5626	.1949	-.0039	-.0380	-.0744	-.0821	.0614	.1578	-.1188	-.1684	-.1412
135.000			.2670	.7232	.5231	.1717	-.0189	-.0526	-.0873	-.0951	.0383	.0123	-.0222	-.0729	-.0462
147.000		.2601	.2733	.6972	.5039	.1617	-.0318	-.0634	-.0928	-.1012	.0292	.0364	.0793	.1196	.0488
162.000			.2848	.6627	.4753	.1329	-.0398	-.0689	-.1029	-.1082	.0120	.0378	.1105	.1460	.0731
180.000	1.7573	.2635	.2896	.6068	.4774	.1319	-.0492	-.0731	-.1049	-.1125	.0138	.0413	.1147	.3544	.1324
198.000			.2917	.5842	.4934	.1665	-.0530	-.0703	-.1063	-.1142	.0047	.0378	.1005	.0803	.2815
213.000		.2548	.2952	.5702	.0000	.0329	-.0836	-.0575	-.1025	-.1089	-.0366	.0420	.1203	.1494	.1116
225.000			.3191	.6136	.6045	.1454	-.0432	-.0741	-.0976	-.0873	.0001	.0357	-.0048	-.0046	.0460
240.000		.2263	.2931	.6956	.4875	.1561	-.0342	-.0634	-.1008	-.1022	.0260	.0876	-.0931	-.1624	-.1232
270.000		.1403	.3132	.7707	.5525	.1952	-.0102	-.0436	-.0835	-.0835	.1055	.7649	-.1469	-.1385	-.1256
300.000		.0880	.3736	.8776	.6454	.2603	.0333	-.0051	-.0538	-.0566	.1118	.1319	.1939	.0131	-.0251
330.000		.0835	.4597	1.0431	.7424	.0000	.0781	.0337	-.0220	-.0205	.1692	.0000		.0554	.0637

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	.0370	.0056	.0216	.0159	-.1112
30.000	.0291	.0259	.0150	.0247	.0159	-.1115
60.000	-.0097	.0100	.0449	.0243	.1697	-.0986
90.000	.0014	.0703	.0320	.0122	.4931	-.0971
120.000	-.0104	.0122	.0049	.0292	.3296	-.1255
135.000	-.0066	-.0087	-.0226	.2354	.3437	
147.000	-.0025	-.0209	.0024	.1481	.4052	-.1507
162.000	.0322	-.0393	-.0280	.1474	.5057	
180.000	.0124	-.0522	-.0595	.1578	.3437	-.1581
198.000	.0294	-.0108	-.0377	.1346	.2207	
213.000	-.1247	-.0995	-.0457	.1297	.1439	.0000
225.000	-.0478	-.0087	-.0568	.1330	.1825	
240.000	-.0281	.0195	-.0235	.0898	.2185	-.1168
270.000	.0599	.1110	-.0006	-.0477	.4805	-.1122
300.000	-.0111	.0083	.0399	-.0028	.1503	-.1147
330.000	.0000	.0132	.0150	.0110	.0118	-.1175

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(7) = 6.824 BETAT (3) = .205

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2621	.3362	.3904	.4445	.4987
PHI															
.000	1.7597	.1489	.4923	1.1238	1.0855	.3735	.1083	.0582	.0050	-.0019	.2128	.0128	.0274	.0974	.0995
30.000		.1019	.4940	1.0624	.7613	.3472	.0948	.0443	-.0071	-.0153	.1897	.0111	.0961	.0675	.0537
60.000		.1050	.4529	.9364	.6757	.2876	.0591	.0081	-.0359	-.0432	.1274	.1561	.1655	.0038	-.0406
90.000		.1754	.2542	.8041	.5919	.2211	.0081	-.0302	-.0671	-.0747	.1953	.5847	-.1867	-.1245	-.1360
120.000		.2368	.2525	.7133	.5147	.1320	-.0212	-.0553	-.0896	-.0983	.0279	.1230	-.1194	-.1792	-.1488
135.000			.2685	.6908	.4801	.1536	-.0330	-.0678	-.1000	-.1065	.0146	.0354	-.0026	-.0484	-.0358
147.000		.2539	.2734	.6599	.4725	.1443	-.0431	-.0716	-.1021	-.1111	.0135	.0414	.0902	.1833	.0478
162.000			.2836	.6127	.4600	.1235	-.0483	-.0754	-.1070	-.1125	.0118	.0389	.0786	.1138	.1138
180.000	1.7597	.2553	.2867	.5673	.5066	.1350	-.0469	-.0700	-.1032	-.1125	.0160	.0292	.1419	.3726	.1214
198.000			.2843	.6022	.4680	.1761	-.0511	-.0699	-.1000	-.1093	.0128	.0274	.1284	.0720	.2640
213.000		.2633	.2870	.6015	.0000	.0332	-.0782	-.0487	-.0966	-.1036	-.0191	.0257	.1089	.1416	.1228
225.000			.3207	.6942	.6125	.1561	-.0344	-.0574	-.0856	-.0913	.0279	.0075	-.0379	-.0541	.0236
240.000		.2521	.3051	.7526	.5164	.1851	-.0132	-.0449	-.0874	-.0913	.0436	.1170	-.0988	-.1562	-.1495
270.000		.1754	.2537	.8448	.6048	.2398	.0203	-.0182	-.0641	-.0651	.1403	.7988	-.1343	-.1395	-.1225
300.000		.1134	.4631	.9664	.6956	.3063	.0638	.0234	-.0280	-.0333	.1489	.1756	.1819	.0086	-.0319
330.000		.1047	.4724	1.0852	.7702	.0000	.0975	.0504	-.0051	-.0057	.1964	.0000		.0527	.0353

X/LT	.5528	.6340	.7423	.8508	.9264	.9838
PHI						
.000	.0000	.035	.0028	.0194	.0234	-.1104
30.000	.0290	.014	.0052	.0207	.0107	-.1149
60.000	-.0229	.0041	.0424	.0121	.1653	-.1058
90.000	.0353	.0856	.0181	-.0303	.1843	-.1044
120.000	.0076	.0083	-.0126	.0828	.2340	-.1135
135.000	-.0350	-.0380	-.0421	.1928	.2744	
147.000	-.0104	-.0037	-.0320	.2005	.2502	-.1451
162.000	.0175	-.0484	-.0722	.1876	.2794	
180.000	.0190	-.0091	-.0844	.1647	.2780	-.1412
198.000	.0096	.0452	-.0171	.1422	.2347	
213.000	-.1077	-.0665	-.0094	.1526	.1889	.0000
225.000	-.0371	.0062	-.0237	.1280	.2244	
240.000	.0128	.0233	-.0046	.0882	.2343	-.1153
270.000	.0294	.0876	.0124	-.0252	.5625	-.1128
300.000	-.0158	.0069	.0461	.0167	.1646	-.1142
330.000	.0000	.0191	.0124	.0223	.0187	-.1180

ARC97-019 IASI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(7) = 6.230 BETAT (4) = 2.395

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1894	.1944	.2108	.2323	.2584	.2821	.3362	.3904	.4446	.4987
PHI															
.000	1.7811	.1584	.4413	1.1269	1.1146	.3660	.1070	.0584	.0040	-.0038	.2098	.0117	.0277	.0897	.0899
30.000		.0818	.4538	1.0184	.7288	.3171	.0744	.0271	-.0179	-.0248	.1825	-.0044	.0798	.0842	.0604
60.000		.0891	.3447	.8476	.6198	.2443	.0294	-.0139	-.0553	-.0603	.0973	.1142	.1943	.0084	-.0371
90.000		.1404	.2669	.7314	.5307	.1805	-.0160	-.0508	-.0844	-.0917	.1484	.5585	-.1877	-.1241	-.1377
120.000		.2230	.2526	.8603	.4651	.1337	-.0421	-.0727	-.1018	-.1080	.0142	.3965	-.1186	-.1760	-.1280
135.000			.2680	.8212	.4453	.1264	-.0550	-.0832	-.1083	-.1111	.0082	.0319	.0047	-.0012	-.0225
147.000		.2460	.2757	.5810	.4509	.1257	-.0515	-.0790	-.1101	-.1143	.0058	.0400	.1032	.2081	.0136
162.000			.2847	.5500	.4478	.1081	-.0581	-.0785	-.1080	-.1161	.0058	.0344	.0796	.0523	.0896
180.000	1.7611	.2530	.2830	.5874	.4741	.1268	-.0557	-.0782	-.1070	-.1118	.0047	.0250	.1450	.3776	.0632
198.000			.2792	.8765	.4877	.1850	-.0362	-.0747	-.0945	-.1087	.0135	.0351	.1189	.1151	.2423
213.000		.2656	.2792	.8486	.0000	.0276	-.0912	-.0456	-.0945	-.1069	-.0160	.0071	.0994	.1144	.1531
225.000			.3261	.7407	.6509	.1760	-.0230	-.0439	-.0794	-.0864	.0451	.0096	-.0496	-.0787	.0188
240.000		.2736	.3104	.8012	.5548	.2051	.0048	-.0293	-.0730	-.0765	.0693	.1594	-.0980	-.1596	-.1440
270.000		.2788	.2875	.9612	.6540	.2758	.0478	.0061	-.0426	-.0433	.1955	.8326	-.1273	-.1349	-.1183
300.000		.2122	.4150	1.0451	.7435	.3414	.0925	.0484	-.0070	-.0126	.1864	.2181	.1753	.0084	-.0326
330.000		.1651	.7472	1.1139	.7954	.0000	.1127	.0667	.0082	.0061	.2197	.0000		.0532	.0481

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0000	.0308	.0000	.0148	.0194	-.1099
30.000	.0311	.0092	.0060	.0093	.0021	-.1124
60.000	-.0237	.0065	.0279	-.0036	.1364	-.1084
90.000	.0603	.1123	.0028	-.0418	.4525	-.1054
120.000	-.0369	.0178	-.0383	.0784	.2308	-.1068
135.000	-.0481	-.066	-.0711	.1583	.2393	
147.000	-.0074	-.0979	-.0495	.1451	.2065	-.1359
162.000	.0030	-.0575	-.0630	.1444	.2372	
180.000	.0120	-.0477	-.0474	.1447	.2745	-.1383
198.000	-.0380	.0345	-.0151	.0881	.3912	
213.000	-.0720	-.0512	.0179	.1086	.2386	.0000
225.000	-.0231	.0122	-.0116	.1346	.2583	
240.000	.0530	.0286	.0100	.0655	.2939	-.1113
270.000	.0106	.0823	.0242	.0137	.5743	-.1071
300.000	-.0140	-.0007	.0503	.0271	.1871	-.1078
330.000	.0000	.0175	.0256	.0374	.0248	-.1145

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT38)

ALPHAT(7) = 8.235 BETAT (8) = 3.862

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE C_P

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2383	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.7381	.1681	.3671	1.0744	1.0972	.3675	.1084	.0582	.0054	-.0035	.2048	.0039	.0252	.0758	.0722
30.000		.0799	.4180	.9766	.7245	.2917	.0582	.0102	-.0352	-.0413	.1337	-.0157	.0646	.0619	.0639
60.000		.0960	.2605	.7712	.5550	.2054	.0035	-.0372	-.0740	-.0791	.0600	.0727	.2089	.0091	-.0255
90.000		.1437	.2371	.6598	.4714	.1379	-.0400	-.0702	-.0987	-.1052	.1228	.5651	-.1812	-.1049	-.1337
120.000		.1939	.2396	.5740	.4237	.1008	-.0553	-.0859	-.1150	-.1179	.0022	.0855	-.1090	-.1664	-.0903
135.000			.2519	.5198	.4102	.1116	-.0629	-.0883	-.1153	-.1214	-.0059	.0395	.0039	.0393	-.0481
147.000		.2281	.2577	.5082	.4123	.1105	-.0587	-.0894	-.1174	-.1211	.0025	.0343	.0500	.1699	.0109
162.000			.2642	.5297	.4261	.1036	-.0622	-.0876	-.1157	-.1172	-.0125	.0315	.0775	.0167	.0871
180.000	1.7381	.2431	.2576	.6141	.4888	.0998	-.0469	-.0785	-.1087	-.1147	.0018	.0444	.1365	.3345	.0722
198.000			.2514	.6935	.4493	.1715	-.0187	-.0751	-.0848	-.0974	.0078	.0388	.1174	.0848	.2902
213.000		.2528	.2517	.6686	.0000	-.0107	-.1012	-.0484	-.1018	-.1105	-.0118	.0325	.0789	.0431	.1817
225.000			.3083	.7918	.6823	.1919	-.0184	-.0331	-.0752	-.0791	.0597	.0113	-.0545	-.0886	-.0643
240.000		.2884	.3080	.8964	.6080	.2428	.0234	-.0134	-.0593	-.0667	.0835	.1796	-.0951	-.1534	-.1302
270 000		.3068	.2896	1.0439	.7301	.3301	.0756	.0321	-.0212	-.0265	.2420	.8672	-.1184	-.1281	-.1049
300.000		.2664	.3926	1.0822	.8190	.3956	.1163	.0699	.0131	.0078	.2213	.2605	.1685	.0098	-.0287
330.000		.1883	.6879	1.0979	.8389	.0000	.1313	.0792	.0191	.0162	.2374	.0000		.0521	.0492

X/LT	5528	.6340	.7423	.8508	.9264	.9838
PHI						
.000	.0000	.0222	.0010	.0143	.0049	-.1156
30.000	.0278	.0004	.0087	.0004	.0138	-.1177
60.000	-.0169	.0264	.0139	-.0126	.1319	-.1121
90.000	.0998	.1120	-.0303	.0588	.4065	-.1090
120.000	-.0574	.0052	-.0630	.1073	.2248	-.1034
135.000	-.0685	-.0901	-.0832	.1297	.2033	
147.000	-.0270	-.0995	-.0453	.1283	.1633	-.1268
162.000	-.0380	-.0835	-.0557	.1189	.1448	
180.000	-.0200	-.0313	-.0675	.1108	.3894	-.1391
198.000	-.0498	-.0776	.0098	.0905	.6533	
213.000	-.0103	-.0070	.0410	.1193	.2482	.0000
225.000	.0731	.0121	.0125	.1707	.2665	
240.000	.0039	.0108	.0181	.0764	.3461	-.1254
270.000	.0222	.0716	.0323	.0371	.6211	-.1118
300.000	-.0034	.0111	.0482	.0304	.2086	-.1128
330.000	.0000	.0142	.0340	.0286	.0260	-.1202

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT39) (30 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAT(1) = -7.062 BETAT (1) = .419

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5662	.5407	.8556	.6853	.6183	.1010	-.1431	-.1907	-.2397	-.2241	.0298	.0137	.0582	-.0403	-.1500
30.000		.5993	.6691	.7291	.5021	.1013	-.1367	-.1862	-.2335	-.2185	.0216	-.0365	-.0804	-.1702	-.0961
60.000		.6258	.6714	.7879	.5456	.1325	-.1141	-.1655	-.2220	-.1180	.0314	.0442	-.4590	-.2496	-.0922
90.000		.6659	.6568	.8650	.6135	.1857	-.0744	-.1280	-.1849	.1425	.5008	.0984	-.4892	-.1974	-.1510
120.000		.7257	.6798	.9555	.7043	.2490	-.0176	-.0812	-.1485	-.1308	.1904	.4808	.0796	.0708	.1281
135.000			.7028	.9993	.7459	.2970	.0092	-.0606	-.1269	-.1062	.2099	.1905	.2992	.1542	.0521
147.000		.7988	.7083	1.0314	.7767	.3227	.0244	-.0409	-.1002	-.1010	.2112	.2732	.3715	.2323	-.0896
162.000			.7389	1.0578	.8014	.3486	.0340	-.0055	-.0963	-.0822	.2298	.2826	.4592	-.1401	-.1116
180.000	1.5662	.8528	.7706	1.0722	.7978	.3889	.0631	-.0293	-.0709	-.0806	.2476	.2525	.5459	.3876	.0105
198.000			.7846	1.0706	.7144	.3834	.0821	-.0383	-.0696	-.0645	.2314	.2483	.4372	-.1057	-.0054
213.000		.7717	.8559	.9415	.0000	.0773	-.1284	.0306	-.1092	-.1085	.1326	.2479	.3761	.1299	.1711
225.000			.8957	1.0357	.6391	.2896	.0366	-.0615	-.1190	-.0865	.2031	.2570	.2376	.1362	.0803
240.000		.7041	.7460	.9740	.6881	.3207	-.0260	-.0538	-.1450	-.1259	.2083	.4928	.0856	.0786	.1131
270.000		.6685	.6830	.8896	.6323	.2107	-.0612	-.1131	-.1909	.1166	.4414	.2674	-.4576	-.2195	-.1449
300.000		.6268	.7019	.8075	.5560	.1503	-.1093	-.1640	-.2221	-.1811	.0173	.0345	-.3526	-.2785	-.1087
330.000		.5715	.6588	.7368	.5099	.0000	-.1432	-.1878	-.2389	-.2301	.0160	.0000		-.1765	-.1174

X/LT	.5528	.6340	.7423	.8508	.9264	.9838
PHI						
.000	-.1277	-.0594	.0158	.0069	.0422	-.1984
30.000	-.0887	-.0539	-.0065	-.0025	.0590	-.2115
60.000	-.0765	-.0852	-.0350	.0101	.2108	-.2131
90.000	-.1893	-.0654	-.0618	.0844	.6348	-.2076
120.000	.0302	-.0071	-.0877	.0579	.2924	-.2069
135.000	.0845	-.0291	-.1255	.2449	.2794	
147.000	.1037	.0162	-.0767	.1764	.2268	-.2083
162.000	-.0349	.0456	-.0468	.1529	.3229	
180.000	.0209	.0757	-.1308	.1391	.3535	-.1978
198.000	-.1152	-.1013	-.0649	.1101	.2047	
213.000	.1203	.0226	-.0565	.1207	.0962	.0000
225.000	.0806	.0210	-.0917	.1449	.1446	
240.000	.0380	.0065	-.0771	.0822	.2206	-.2076
270.000	-.2248	-.0731	-.0532	.0415	.5909	-.2017
300.000	-.1413	-.0476	-.0342	.0060	.2056	-.2066
330.000	.0000	-.0579	-.0099	.0014	.0737	-.2131

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT39)

ALPHAT(2) = -4.848 BETAT (1) = -3.960

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5653	.6277	.6725	.7754	.6599	.1291	-.1247	-.1738	-.2284	-.2150	.0339	-.0084	.0475	-.0449	-.1300
30.000		.6571	.7026	.8402	.5911	.1744	-.0932	-.1463	-.2054	-.1962	.0580	-.0209	-.1657	-.2089	-.1064
60.000		.7061	.6920	.9215	.6653	.2325	-.0482	-.1072	-.1735	-.1432	.1322	.1066	-.4176	-.2527	-.1160
90.000		.7516	.7039	.9957	.7428	.2936	-.0030	-.0669	-.1346	.2186	.6078	.1626	-.4340	-.2460	-.1239
120.000		.7936	.7145	1.0436	.7974	.3331	.0300	-.0324	-.1036	-.0935	.2404	.3414	-.1086	.0169	.1857
135.000			.7186	1.0585	.8029	.3533	.0450	-.0183	-.0989	-.0938	.2347	.2289	.2026	.1568	.0569
147.000		.8038	.7305	1.0576	.8029	.3549	.0501	-.0199	-.1049	-.0850	.2337	.2299	.3693	.2278	-.0085
162.000			.7346	1.0453	.7894	.3219	.0252	-.0433	-.0947	-.1000	.2161	.2613	.4472	-.0759	-.1418
180.000	1.5653	.7805	.7463	1.0142	.7556	.2962	.0373	-.0405	-.1324	-.1081	.1941	.2497	.5292	.3448	-.0168
198.000			.7677	.9746	.6496	.3591	-.0222	-.0580	-.1439	-.1344	.1734	.2212	.4060	-.1952	.0556
213.000		.7260	.8279	.7631	.0000	-.0081	-.2144	-.0481	-.1761	-.1442	.0897	.2113	.2868	.0383	.0419
225.000			.8007	.9070	.4764	.1978	-.0423	-.1336	-.1858	-.1539	.1418	.1747	.1957	.0648	.0250
240.000		.6498	.7133	.8661	.5448	.2184	-.1002	-.1279	-.2085	-.0324	.1335	.3818	.0959	.0651	.0457
270.000		.6049	.6919	.6003	.5445	.1117	-.1271	-.1611	-.2296	.0589	.3789	.1981	-.4264	-.2269	-.2126
300.000		.5367	.6537	.7225	.5240	.1194	-.1331	-.1761	-.2371	-.1663	.0161	.1638	-.2841	-.2193	-.0697
330.000		.5466	.6556	.7290	.5188	.0000	-.1370	-.1853	-.2404	-.2143	.0293	.0000		-.0764	-.1327

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1256	-.0584	.0057	-.0018	.0476	-.1767
30.000	-.0639	-.0610	-.0311	-.0318	.0580	-.2066
60.000	-.0785	-.0559	-.0106	-.0053	.2284	-.1889
90.000	-.2212	-.0170	-.0330	-.0168	.7446	-.1850
120.000	.0748	.0124	-.0116	.0342	.3667	-.1860
135.000	.0847	.0169	-.0403	.2601	.4036	
147.000	.1008	.0619	-.0081	.1534	.4289	-.2275
162.000	-.0202	.1088	-.0761	.1220	.5111	
180.000	-.1250	.0514	-.0098	.1274	.5175	-.1780
198.000	-.1266	-.0189	-.0843	.0756	.4010	
213.000	-.0696	-.1065	-.0843	.0645	.0323	.0000
225.000	-.0167	-.0317	-.0907	.0786	.1607	
240.000	-.0326	-.0125	-.0971	.0821	.1287	-.1670
270.000	-.0925	-.0749	-.0480	.0780	.5457	-.1641
300.000	-.0553	-.0474	-.0305	.0161	.1396	-.1712
330.000	.0000	-.0506	.0011	.0021	.1053	-.1822

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT39)

ALPHAT(2) = -4.832 BETA(2) = .393

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5690	.5977	.6981	.7566	.6739	.1352	-.1191	-.1715	-.2238	-.2100	.0535	.0133	.0770	-.0203	-.1277
30.000		.6026	.7042	.7919	.5523	.1297	-.1124	-.1632	-.2182	-.2022	.0571	.0020	-.0770	-.1356	-.1040
60.000		.6446	.7379	.8272	.5781	.1551	-.0942	-.1501	-.2090	-.1658	.0677	.1210	-.4047	-.2585	-.1229
90.000		.6471	.7757	.8832	.6283	.1927	-.0737	-.1277	-.1847	.1495	.5322	.1078	-.3986	-.2643	-.1781
120.000		.6721	.8254	.9376	.6875	.2352	-.0279	-.0906	-.1585	-.1460	.1803	.3827	-.0520	-.0043	.0835
135.000			.8450	.9719	.7126	.2664	-.0052	-.0769	-.1471	-.1220	.1886	.1601	.2640	.1183	.0201
147.000		.6959	.8645	.9952	.7341	.2795	-.0065	-.0657	-.1238	-.1204	.1854	.2098	.3195	.1647	-.0893
162.000			.8832	1.0163	.7499	.2930	-.0046	-.0456	-.1190	-.1103	.1979	.2037	.3752	-..651	-.0964
180.000	1.5690	.7343	.9052	1.0263	.7483	.3348	.0322	-.0631	-.1120	-.1077	.2116	.2259	4190	.3172	-.0456
198.000			.9266	1.0244	.6434	.3429	.0458	-.0695	-.0976	-.0957	.1723	.2050	.3918	-.0837	-.0159
213.000		.7084	.9778	.9428	.0000	.0546	-.1450	.0007	-.1340	-.1363	.1056	.2397	.3311	.1216	.1166
225.000			.9845	1.0025	.6109	.2828	.0172	-.0855	-.1327	-.1038	.1854	.1957	.1478	.1118	.0291
240.000		.6786	.8703	.9723	.6669	.3091	-.0427	-.0702	-.1561	-.1343	.1950	.4456	-.0229	.0061	.0970
270.000		.6567	.8136	.9114	.6466	.2034	-.0670	-.1081	-.1801	.1171	.4876	.2644	-.5133	-.2454	-.1513
300.000		.6609	.7482	.8535	.5980	.1783	-.0893	-.1429	-.2074	-.1843	.0616	.1203	-.3155	-.2467	-.0852
330.000		.5811	.6835	.8001	.5615	.0000	-.1207	-.1678	-.2227	-.2036	.0522	.0000		-.1455	-.1225

X/LT	.5528	.6340	.7423	.8506	.9264	.9839
PHI						
.000	-.1314	-.0578	.0165	.0151	.0527	-.1910
30.000	-.0779	-.0545	.0040	.0115	.0818	-.1974
60.000	-.0486	-.0361	-.0443	.0163	.1746	-.1936
90.000	-.1999	-.0641	-.0475	.1036	.6715	-.1910
120.000	.0355	-.0197	-.0740	.0760	.3134	-.1813
135.000	.0616	-.0357	-.1112	.2482	.3002	
147.000	.0757	.0191	-.0584	.1837	.2614	-.2061
162.000	-.0629	.0584	-.0430	.1611	.3272	
180.000	-.0788	.0804	-.1164	.1503	.3285	-.2019
198.000	-.1167	-.0859	-.0536	.1233	.1936	
213.000	.0607	.0146	-.0456	.1332	.1172	.0000
225.000	.0524	.0082	-.0775	.1484	.1679	
240.000	.0304	.0050	-.0752	.0905	.2414	-.1997
270.000	-.2747	-.0229	-.0350	.0883	.8377	-.1928
300.000	-.0444	-.0373	-.0448	.0144	.1952	-.1987
330.000	.0000	-.0587	-.0035	-.0041	.0825	-.2023

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT39)

ALPHAT(2) = -4.832 BETAT (3) = 4.119

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5563	.6283	.6574	.7729	.6454	.1330	-.1212	-.1717	-.2251	-.2146	.0363	.0036	.0639	-.0582	-.1425
30.000		.5457	.6350	.7072	.5101	.1141	-.1378	-.1848	-.2334	-.2178	.0356	.0324	-.1266	-.0750	-.1460
60.000		.5320	.6465	.6998	.5047	.1007	-.1320	-.1813	-.2350	-.1126	.0241	.1696	-.3822	-.2302	-.1034
90.000		.6121	.6746	.7610	.5296	.1116	-.1280	-.1778	-.2223	.0824	.4744	.1504	-.3598	-.2483	-.2280
120.000		.6184	.7253	.8232	.5776	.1481	-.0997	-.1532	-.2086	-.0090	.1118	.3878	.0769	.0597	.0349
135.000			.7499	.8664	.6080	.1830	-.0806	-.1344	-.1845	-.1754	.1286	.1338	.2175	.0703	-.0427
147.000		.6462	.7796	.9025	.6448	.2233	-.0611	-.1067	-.1705	-.1586	.1321	.1990	.2823	.1568	-.2061
162.000			.7791	.9411	.6851	.2656	-.0155	-.0838	-.1540	-.1433	.1458	.2057	.3163	-.2213	-.1288
180.000	1.5563	.6851	.8193	.9875	.7152	.3303	-.0079	-.0514	-.1295	-.1081	.1791	.2264	.5084	.3266	-.0198
198.000			.8983	1.0300	.6486	.3143	.0695	-.0686	-.0775	-.0673	.1985	.2533	.4464	-.0859	.0152
213.000		.7193	.9137	1.0339	.0000	.1215	-.1143	.0388	-.1048	-.1233	.1470	.2737	.3973	.1801	.1725
225.000			1.0146	1.0559	.7296	.3633	.0845	-.0435	-.0679	-.0456	.2048	.2418	.0476	.1389	.0866
240.000		.7502	.9485	1.0501	.7046	.4017	.0288	-.0111	-.0980	-.0685	.2613	.3833	-.0871	.0292	.2046
270.000		.74 .	.8931	1.0056	.7660	.3104	.0039	-.0307	-.1233	.1956	.5820	.3338	-.4595	-.2312	-.1063
300.000		.6899	.8174	.9225	.6774	.2518	-.0347	-.0933	-.1821	-.1414	.1480	.1150	-.3165	-.2500	-.1005
330.000		.6625	.7330	.8351	.5984	.0000	-.0876	-.1403	-.2003	-.1869	.0673	.0000		-.2134	-.1015

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1342	-.0800	-.0057	.0143	.0463	-.1904
30.000	-.1168	-.0482	-.0041	.0502	.1250	-.1965
60.000	-.0676	-.0346	-.0124	.0873	.1838	-.2219
90.000	-.0692	-.0836	-.0596	.1367	.5639	-.1737
120.000	-.0222	-.0114	-.1250	.1417	.1889	-.1920
135.000	.0118	-.0543	-.1068	.1654	.2443	
147.000	.0058	-.0421	-.1155	.1845	.1768	-.1836
162.000	-.0768	-.0236	-.1771	.1563	.2177	
180.000	-.1127	.0058	-.1850	.1221	.3412	-.1949
198.000	-.2952	-.1199	-.0563	.0711	.4237	
213.000	.1298	.0252	-.0083	.1009	.2216	.0000
225.000	.1250	.0505	-.0394	.1377	.2583	
240.000	.0978	.0361	-.0264	.0818	.2775	-.2071
270.000	-.2222	-.0213	-.0229	.0149	.7449	-.2071
300.000	-.0768	-.0344	-.0188	.0000	.2267	-.2106
330.000	.0000	-.0832	-.0490	-.0223	.0798	-.2341

ARC97-019 1AB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT39)

ALPHAT(3) = -.324 BETAT (1) = -8.124

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5556	.6024	.7154	.8824	.7470	.2014	-.0705	-.1263	-.1850	-.1787	.0873	-.0029	.0532	-.0312	-.0940
30.000		.7309	.6889	.9583	.7132	.2784	-.0195	-.0761	-.1437	-.1366	.1473	.0638	-.1130	-.1736	-.0788
60.000		.7873	.6804	1.0242	.7784	.3388	.0239	-.0383	-.1142	-.0985	.2295	.2355	-.3232	-.1818	-.0683
90.000		.8118	.6979	1.0522	.8049	.3557	.0390	-.0275	-.0965	.2556	.6833	.2092	-.2971	-.2344	-.1934
120.000		.7933	.6947	1.0262	.7883	.3241	.0301	-.0376	-.1126	-.1004	.2292	.1900	-.2495	-.0188	.0196
135.000			.6743	.9998	.7525	.3120	.0104	-.0567	-.1285	-.1095	.1774	.2178	-.0875	.0751	.0241
147.000		.7494	.6724	.9753	.7298	.3065	-.0128	-.0685	-.1342	-.1315	.1625	.1148	.2270	.2258	.0215
162.000			.6810	.9364	.6994	.2653	-.0224	-.0917	-.1701	-.1460	.1336	.1834	.3733	-.0417	-.1509
180.000	1.5556	.7001	.6785	.8891	.6674	.1717	-.0786	-.1018	-.1859	-.1722	.1006	.1505	.4692	.2607	-.0925
198.000			.7087	.8428	.5677	.2493	-.1123	-.1342	-.2110	-.1777	.0831	.1419	.3104	-.2494	-.0032
213.000		.6396	.7476	.6595	.0000	-.0737	-.2474	-.1215	-.2243	-.1034	.0378	.1377	.2281	-.0296	-.0877
225.000			.7286	.7819	.4040	.1289	-.1047	-.1904	-.2236	-.1176	.0927	.0494	.1196	-.0001	-.0756
240.000		.5948	.6830	.7557	.4954	.1324	-.1441	-.1720	-.2388	.0036	.0730	.2854	-.0694	-.0169	-.0639
270.000		.5337	.6617	.6965	.5072	.1040	-.1355	-.1862	-.2314	.0586	.4677	.1888	-.2309	-.1769	-.1366
300.000		.5709	.6637	.7442	.52[illegible]5	.1107	-.1342	-.1793	-.2301	-.1829	.0522	.3597	-.1650	-.1404	-.0394
330.000		.5922	.7074	.8081	.5601	.0000	-.1104	-.1570	-.2136	-.1988	.0513	.0000		-.0521	-.1109

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0874	-.0718	-.0401	.0282	.0757	-.1864
30.000	-.0153	-.0512	-.0401	-.0309	.0676	-.1793
60.000	-.0334	-.0331	-.0101	.0104	.2304	-.1735
90.000	-.2143	-.0420	-.0070	.0069	.7006	-.1938
120.000	.0871	.0192	.0348	.1245	.5872	-.1973
135.000	.0622	-.0114	-.0254	.3623	.5965	
147.000	.0412	.0249	.0465	.2978	.6181	-.2072
162.000	-.1604	.0192	-.0404	.3335	.6085	
180.000	-.1128	-.0563	-.0144	.2877	.5359	-.2047
198.000	-.1382	-.0531	.0231	.1836	.4299	
213.000	-.1982	-.1550	-.0045	.1662	.0750	.0000
225.000	-.0680	-.0827	.0110	.1927	.2478	
240.000	-.0572	-.0646	.0536	.1927	.2236	-.1509
270.000	-.1429	-.0936	.0564	.1231	.6126	-.1941
300.000	-.0464	-.0433	.0418	.0783	.2030	-.1970
330.000	.0000	-.0614	-.0122	.0673	.1248	-.2079

ARC97-0:9 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT39)

ALPHAT(3) = -.323 BETAT (2) = -3.994

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5693	.5955	.7959	.8983	.7560	.2141	-.0652	-.1191	-.1802	-.1699	.1036	-.0196	.0866	-.0011	-.0781
30.000		.6751	.8274	.9494	.7008	.2594	-.0339	-.0889	-.1533	-.1424	.1423	.0630	-.0676	-.1382	-.0740
60.000		.7015	.8519	.9929	.7426	.2943	-.0082	-.0644	-.1330	-.1211	.1820	.2438	-.3155	-.2042	-.0667
90.000		.7062	.8627	1.0147	.7602	.3042	.0042	-.0594	-.1276	.2232	.6403	.2223	-.2502	-.2566	-.2164
120.000		.7037	.8605	.9957	.7503	.2888	-.0028	-.0667	-.1371	-.1217	.1836	.1987	-.2324	-.0274	-.0227
135.000			.8551	.9845	.7283	.2917	-.0168	-.0714	-.1365	-.1288	.1582	.2239	-.0281	.1039	-.0148
147.000		.6884	.8421	.9691	.7187	.2834	-.0193	-.0721	-.1460	-.1450	.1565	.1322	.2940	.1978	-.0158
162.000			.8221	.9420	.6954	.2479	-.0346	-.1049	-.1612	-.1473	.1265	.1873	.3808	-.0757	-.1794
180.000	1.5693	.6697	.8150	.9115	.6705	.1930	-.0479	-.0982	-.1843	-.1615	.1223	.1545	.4690	.2666	-.0560
198.000			.8018	.8816	.5588	.2630	-.0705	-.1270	-.1796	-.1663	.1033	.1567	.2849	-.1934	.0190
213.000		.6547	.8636	.7491	.0000	-.0408	-.2104	-.0922	-.2033	-.1760	.0563	.1535	.2415	.0332	-.0088
225.000			.8047	.8525	.4662	.1732	-.0721	-.1644	-.2038	-.1676	.1119	.0927	.1187	.0181	-.0569
240.000		.6044	.7034	.8317	.5549	.1703	-.1140	-.1530	-.2203	-.1537	.0919	.3141	-.1134	-.0208	-.0256
270.000		.5949	.6822	.7771	.5687	.1397	-.1118	-.1672	-.2144	.0672	.4531	.2144	-.2623	-.2063	-.1085
300.000		.5739	.6616	.8164	.5840	.1563	-.1128	-.1583	-.2125	-.1944	.0783	.3188	-.1858	-.1474	-.0420
330.000		.6086	.7774	.8563	.6037	.0000	-.0886	-.1400	-.2031	-.1871	.0776	.0000		-.0417	-.0877

X/LT	.5528	.6340	.7423	.8506	.9264	.9839
PHI						
.000	-.0901	-.0582	-.0132	-.0061	.0700	-.1640
30.000	-.0281	-.0436	-.0135	-.0032	.0611	-.1855
60.000	-.0291	-.0117	-.0272	.0009	.1928	-.1640
90.000	-.2240	-.0116	-.0214	-.0153	.7448	-.1707
120.000	.0532	.0183	.0151	.0962	.4945	-.1814
135.000	.0412	-.0440	-.0354	.3324	.4824	
147.000	.0190	.0167	.0151	.2711	.4642	-.2040
162.000	-.0803	.0618	-.0704	.2882	.5324	
180.000	-.1677	.0217	-.0270	.2575	.5076	-.1813
198.000	-.1610	-.0805	-.0330	.1707	.4097	
213.000	-.1389	-.0881	-.0213	.1365	.1348	.0000
225.000	-.0439	-.0551	-.0219	.1542	.2295	
240.000	-.0503	-.0507	-.0394	.1651	.2145	-.1659
270.000	-.1316	-.0596	-.0137	.0975	.5551	-.1653
300.000	-.0338	-.0376	-.0096	.0427	.2043	-.1653
330.000	.0000	-.0459	-.0108	.0120	.1020	-.1678

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT39)

ALPHAT(3) = -.327 BETAT (3) = .364

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5699	.7140	.8047	.9189	.7729	.2153	-.0632	-.1153	-.1780	-.1656	.1124	-.0101	.1195	.0182	-.0748
30.000		.7099	.8035	.9106	.6504	.2124	-.0670	-.1194	-.1742	-.1595	.1207	.0688	-.1256	-.0444	-.0751
60.000		.7445	.7889	.9038	.6367	.2042	-.0601	-.1166	-.1796	-.1633	.1226	.2906	-.3111	-.1949	-.0735
90.000		.7543	.7898	.9029	.6489	.2013	-.0640	-.1251	-.1815	.1571	.5592	.2349	-.2655	-.2411	-.2196
120.000		.7546	.7886	.9058	.6424	.1978	-.0602	-.1153	-.1761	-.1624	.1210	.2413	-.1900	-.0201	-.0811
135.000			.7892	.9173	.6428	.2099	-.0608	-.1039	-.1783	-.1643	.1226	.1433	.1309	.0498	-.0893
147.000		.7530	.7895	.9205	.6466	.2121	-.0595	-.1204	-.1736	-.1569	.1305	.1766	.2140	.1128	-.1227
162.000			.7912	.9276	.6469	.1940	-.0691	-.1123	-.1752	-.1636	.1330	.1753	.2633	-.1055	-.1095
180.000	1.5699	.7486	.7973	.9298	.6437	.2239	-.0374	-.1205	-.1673	-.1707	.1358	.1572	.3854	.2403	-.0798
198.000			.8063	.9379	.5282	.2529	-.0266	-.1312	-.1518	-.1450	.1143	.1363	.3467	-.0998	-.0691
213.000		.7340	.8297	.9215	.0000	.0037	-.1796	-.0570	-.1786	-.1836	.0519	.2045	.2829	.0878	.0653
225.000			.8615	.9361	.5728	.2615	-.0225	-.1252	-.1601	-.1341	.0906	.1290	.0055	.0280	-.0335
240.000		.7565	.8175	.9421	.6479	.2484	-.0567	-.1164	-.1717	-.1508	.1339	.2682	-.1861	-.0114	-.0436
270.000		.7648	.8034	.9402	.6695	.2207	-.0557	-.1186	-.1675	.1244	.5136	.2672	-.2718	-.2287	-.1953
300.000		.7730	.8076	.9336	.6695	.2354	-.0621	-.1079	-.1675	-.1572	.1279	.2841	-.2221	-.1754	-.0808
330.000		.7562	.8063	.9304	.6618	.0000	-.0557	-.1123	-.1797	-.1653	.1143	.0000		-.0691	-.0760

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1034	-.0523	-.0012	.0198	.0396	-.1795
30.000	-.0564	-.0517	-.0113	.0258	.1256	-.1964
60.000	-.0299	-.0249	-.0161	.0397	.1980	-.1766
90.000	-.2270	-.0730	-.0680	.1039	.6073	-.1756
120.000	.0139	-.0389	-.0635	.1768	.3639	-.1661
135.000	.0224	-.0569	-.0727	.3166	.3325	
147.000	.0199	-.0157	-.0161	.2664	.3049	-.2324
162.000	-.1280	.0520	-.0672	.2343	.2947	
180.000	-.1939	.0476	-.0647	.2155	.2427	-.2213
198.000	-.1753	-.1082	.0066	.1922	.1922	
213.000	-.0344	-.0173	-.0054	.2041	.1827	.0000
225.000	-.0079	-.0202	-.0436	.2116	.2332	
240.000	-.0060	-.0281	-.0489	.1592	.2805	-.1852
270.000	-.2188	-.0328	-.0382	.0755	.5848	-.1846
300.000	-.0202	-.0180	-.0082	.0242	.1586	-.1827
330.000	.0000	-.0464	-.0007	.0210	.1102	-.1855

ARC97-019 IA81 LVAP(ALLML SEALED) EXTERNAL TANK (RETT39)

ALPHAT(3) = -.273 BETAT (4) = 4.085

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5475	.5946	.8250	.8986	.7469	.2178	-.0615	-.1130	-.1787	-.1659	.1081	-.0053	.1028	-.0078	-.0902
30.000		.6105	.7850	.8331	.5880	.1713	-.0950	-.1457	-.2005	-.1901	.0786	.0723	-.0235	-.0366	-.1041
60.000		.5749	.6626	.7997	.5518	.1413	-.1203	-.1644	-.2154	-.1265	.0742	.3488	-.2872	-.1524	-.0432
90.000		.6076	.6915	.7525	.5390	.1272	-.1235	-.1755	-.2220	.1128	.5420	.2760	-.2700	-.2154	-.1788
120.000		.6028	.6829	.7839	.5543	.1266	-.1175	-.1641	-.2201	-.1140	.0726	.2474	-.1250	-.0366	-.0795
135.000			.6918	.8132	.5498	.1409	-.1076	-.1654	-.2157	-.1924	.1046	.0685	.1697	.0558	-.1782
147.000		.6543	.7099	.8347	.5661	.1534	-.1079	-.1543	-.2018	-.1943	.1062	.1675	.2398	.1247	-.2391
162.000			.7445	.8616	.5788	.1674	-.0810	-.1353	-.2018	-.1849	.0941	.1532	.2569	-.2236	-.1615
180.000	1.5475	.6581	.7721	.8925	.5874	.2319	-.0721	-.1135	-.1869	-.1656	.1128	.1662	.4265	.2460	-.1050
198.000			.8109	.9381	.4957	.2271	-.0007	-.1277	-.1388	-.1265	.1344	.1903	.3666	-.0736	.0186
213.000		.6867	.8177	.9223	.0000	.0296	-.1854	-.0284	-.1666	-.1801	.0751	.1941	.2835	.1273	.0952
225.000			.9271	.9723	.6667	.3499	.0228	-.0793	-.1040	-.0943	.1711	.1897	-.1062	.0511	.0701
240.000		.7293	.9114	1.0035	.7412	.3205	.0149	-.0733	-.1140	-.1072	.1985	.2351	-.2211	-.0085	.0536
270.000		.7379	.9246	1.0238	.7794	.3164	.0168	-.0505	-.1123	.1915	.6069	.3366	-.3221	-.2016	-.1495
300.000		.7296	.9210	1.0031	.7555	.3193	.0050	-.0524	-.1227	-.1094	.1949	.2715	-.2281	-.1722	-.0606
330.000		.7052	.8610	.9560	.7094	.0000	-.0229	-.0825	-.1494	-.1336	.1565	.0000		-.1451	-.0646

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0945	-.0737	-.0236	.0078	.0800	-.1630
30.000	-.0863	-.0532	-.0081	.0429	.1181	-.1693
60.000	-.0425	-.0226	-.0027	.1012	.2511	-.1738
90.000	-.1349	-.0645	-.0527	.1097	.5809	-.1492
120.000	-.0353	-.0319	-.0448	.2238	.2244	-.1700
135.000	-.0006	-.0727	-.0068	.2405	.2861	
147.000	-.0381	-.0224	-.0214	.2515	.3291	-.1722
162.000	-.1756	-.0081	-.1602	.2342	.2434	
180.000	-.1815	-.0467	-.1637	.2154	.3468	-.2077
198.000	-.3083	-.1749	-.0244	.1685	.4543	
213.000	.0294	-.0138	.0050	.1880	.3398	.0000
225.000	.0568	.0267	-.0443	.2059	.3773	
240.000	.0432	.0033	-.0111	.1678	.4056	-.1927
270.000	-.2323	-.0021	-.0244	.0628	.7187	-.1907
300.000	-.0214	-.0183	-.0449	.0190	.2240	-.1901
330.000	.0000	-.0372	-.0383	-.0084	.0748	-.1978

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT39)

ALPHAT(3) = -.248 BETAT (6) = 6.884

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.5563	.5384	.8008	.8782	.7304	.1972	-.0581	-.1113	-.1763	-.1695	.0980	.0005	.0742	-.0337	-.0992
30.000		.5591	.7614	.7970	.5508	.1453	-.1068	-.1560	-.2082	-.1982	.0577	.0675	-.0287	-.0489	-.1166
60.000		.5368	.6159	.7364	.5024	.1033	-.1292	-.1620	-.2341	-.1084	.0471	.3569	-.2699	-.1262	-.0405
90.000		.5406	.6458	.8918	.4827	.0975	-.1428	-.1924	-.2382	.0905	.5491	.2433	-.2585	-.1809	-.1611
120.000		.5489	.6407	.7210	.4996	.0896	-.1309	-.1842	-.2407	-.0488	.0404	.2360	-.0780	-.0638	-.0983
135.000			.6528	.7620	.5050	.1077	-.1265	-.1785	-.2243	-.2172	.0853	.0574	.1394	.0372	-.1819
147.000		.5981	.6823	.7890	.5231	.1176	-.1230	-.1575	-.2155	-.2052	.0856	.1505	.2096	.0888	-.2413
162.000			.7207	.8191	.5435	.1555	-.0824	-.1438	-.2003	-.1975	.0764	.1508	.2344	-.2537	-.2141
180.000	1.5563	.6093	.7502	.8701	.5601	.2237	-.0808	-.1055	-.1905	-.1698	.0907	.1626	.4237	.2209	-.1642
198.000			.8195	.9372	.4907	.2017	-.0012	-.1138	-.1438	-.1174	.1359	.1708	.3691	-.0679	.0416
213.000		.6871	.7774	.9099	.0000	.0003	-.1984	-.0203	-.1795	-.1801	.0913	.1969	.2235	.1334	.1157
225.000			.9308	.9949	.7100	.3886	.0355	-.0465	-.0862	-.0727	.1917	.1883	-.1271	.0262	.1115
240.000		.7468	.9779	1.0373	.7810	.3526	.0504	-.0380	-.0891	-.0891	.2436	.2302	-.2344	-.0240	.0994
270.000		.7688	.9644	1.0618	.8268	.3679	.0530	-.0130	-.0817	.2221	.6485	.3700	-.3278	-.1431	-.1049
300.000		.7462	.9279	1.0357	.7902	.3616	.0425	-.0152	-.0936	-.0833	.2404	.2814	-.2202	-.1696	-.0446
330.000		.7039	.8570	.9631	.7259	.0000	-.0038	-.0661	-.1328	-.1197	.1660	.0000		-.1766	-.0733

X/LT	.5520	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0796	-.0809	-.0098	.0442	.0739	-.1829
30.000	-.0929	-.0521	.0482	.0536	.1105	-.1918
60.000	-.0521	.0031	.0584	.0700	.2154	-.1883
90.000	-.1071	-.0402	.0054	.1283	.6203	-.1746
120.000	-.0809	-.0326	-.0304	.2312	.3012	-.1810
135.000	-.0411	-.0764	.0042	.3007	.2952	
147.000	-.0534	-.0624	-.0095	.2988	.2157	-.1797
162.000	-.1200	-.0792	-.1947	.2689	.2043	
180.000	-.2072	-.0650	-.2229	.2387	.3409	-.2193
198.000	-.3369	-.2542	-.0478	.1780	.5453	
213.000	.0676	.0045	.0154	.2010	.3978	.0000
225.000	.0934	.0713	-.0279	.2208	.4277	
240.000	.0787	.0352	.0268	.1791	.4716	-.1963
270.000	-.2069	-.0276	-.0529	.0467	.7096	-.1985
300.000	-.0237	-.0184	-.0358	.0228	.2465	-.1995
330.000	.0000	-.0463	-.0544	.0100	.0954	-.2088

ARC97-018 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT39)

ALPHAT(4) = 3.538 BETAT (1) = -4.027

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5677	.5662	.8468	.9996	.8322	.3118	.0002	-.0568	-.1271	-.1160	.1844	-.0173	.1212	.0406	-.0208
30.000		.7390	.8528	1.0416	.7970	.3488	.0274	-.0343	-.1034	-.0300	.2224	.1386	-.0420	-.0449	-.0340
60.000		.7685	.8243	1.0397	.7944	.3430	.0277	-.0352	-.1123	-.0977	.2350	.3855	-.2186	-.1449	-.0375
90.000		.7444	.7945	.9948	.7464	.2988	-.0067	-.0689	-.1350	.2127	.6014	.1802	-.2748	-.1518	-.0390
120.000		.6864	.7504	.9185	.6749	.2210	-.0435	-.1037	-.1701	-.1572	.1301	.0523	-.2844	-.1474	-.1074
135.000			.7431	.8835	.6374	.1933	-.0692	-.1294	-.1916	-.1730	.0735	.1142	-.1421	.0504	-.0791
147.000		.6477	.7387	.8553	.6174	.1917	-.0917	-.1393	-.1947	-.1897	.0741	.0663	.1145	.2174	-.0434
162.000			.7200	.8210	.5993	.1688	-.0980	-.1575	-.2184	-.1945	.0691	.1063	.2610	.0514	-.1730
180.000	1.5677	.6214	.7135	.7863	.5894	.1058	-.1148	-.1584	-.2282	-.2090	.0795	.1136	.3117	.1786	-.0557
198.000			.7062	.7645	.4960	.1659	-.1161	-.1837	-.2131	-.1881	.0388	.1059	.2254	-.1559	.0945
213.000		.9526	.7591	.6770	.0000	-.0736	-.2404	-.1347	-.2358	-.2151	.0060	.1190	.1943	.0406	.0218
225.000			.7151	.7156	.4508	.1287	-.1053	-.1938	-.2206	-.1845	.0484	.0621	.0235	.0628	-.0954
240.000		.5586	.6459	.7223	.5201	.1185	-.1336	-.1824	-.2350	-.1836	.0430	.1745	-.2389	-.1184	-.0614
270.000		.5855	.6738	.7941	.5646	.1344	-.1142	-.1695	-.2296	.0531	.3943	.2066	-.2895	-.1575	.0123
300.000		.6103	.7479	.8513	.6050	.1796	-.0850	-.1372	-.2026	-.1839	.1083	.6521	-.0588	-.1207	-.0349
330.000		.5646	.8168	.9241	.6765	.0000	-.0457	-.1009	-.1640	-.1495	.1247	.0000		.0048	-.0668

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0580	-.0353	-.0098	-.0074	.0688	-.1536
30.000	.0025	.0054	.0067	.0340	.0666	-.1520
60.000	.0429	.0303	.0060	.0813	.1203	-.1354
90.000	.0460	.0327	.0060	.1342	.2134	-.1396
120.000	.0423	.0609	.0371	.2267	.5112	-.1520
135.000	-.0205	-.0213	.0098	.3834	.5732	
147.000	-.0110	-.0190	.0599	.3843	.6009	-.1970
162.000	-.0898	.0187	.0454	.3793	.5951	
180.000	-.1510	-.0900	.0075	.3431	.3960	-.1791
198.000	-.1327	-.0814	.0643	.2371	.3396	
213.000	-.1860	-.0687	.0561	.2110	.1518	.0000
225.000	-.0681	-.0466	.0526	.2357	.2336	
240.000	-.0255	-.0440	.0501	.2214	.1893	-.1587
270.000	.0098	-.0399	.0340	.1622	.3056	-.1450
300.000	.0051	-.0266	-.0020	.0710	.1673	-.1456
330.000	.0000	-.0323	-.0219	.0213	.0836	-.1536

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT39)

ALPHAT(4) = 3.552 BETAT (2) = .379

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5842	.5905	.9415	1.0129	.8293	.3135	.0041	-.0548	-.1268	-.1136	.1980	-.0311	.1741	.0692	-.0170
30.000		.6216	.9120	.3841	.7365	.2956	-.0107	-.0725	-.1306	-.1171	.1800	.1396	.0126	.0090	-.0432
60.000		.6721	.8346	.9411	.6835	.2511	-.0448	-.0887	-.1578	-.1438	.1775	.4858	-.1938	-.1261	-.0394
90.000		.6836	.7809	.8799	.6247	.1957	-.0859	-.1245	-.1848	.1394	.5242	.1805	-.2748	-.1720	-.0170
120.000		.8607	.7371	.8280	.5860	.1426	-.0909	-.1483	-.2073	-.1786	.0875	.0802	-.2609	-.1378	-.1444
135.000			.7222	.8187	.5675	.1496	-.1194	-.1533	-.2095	-.2004	.0707	.1379	.0085	.0932	-.1324
147.000		.6346	.7016	.8103	.5637	.1512	-.1150	-.1676	-.2161	-.1940	.0817	.1351	.1871	.1250	-.1504
162.000			.6962	.7911	.5574	.1277	-.1264	-.1691	-.2190	-.2046	.0763	.1379	.2144	-.0401	-.1066
180.000	1.5842	.6289	.7020	.7812	.5431	.1391	-.1036	-.1742	-.2136	-.2120	.0681	.1319	.3805	.1788	-.1053
198.000			.7013	.8001	.4128	.1636	-.0868	-.1881	-.1981	-.1882	.0561	.1097	.3070	-.0824	-.0697
213.000		.6089	.7087	.7876	.0000	-.0328	-.2328	-.1171	-.2228	-.2204	.0044	.1468	.2455	.0919	.0284
225.000			.7449	.8347	.5736	.2260	-.0833	-.1609	-.1914	-.1689	.0586	.0872	-.1052	.0977	-.0555
240.000		.6749	.7683	.8623	.6289	.1604	-.0719	-.1477	-.2024	-.1856	.0726	.1129	-.2824	-.0861	-.0794
270.000		.6997	.8110	.9163	.6698	.2371	-.0557	-.1104	-.1818	.1101	.4809	.2705	-.3254	-.1611	.0091
300.000		.7051	.8729	.9627	.7191	.2750	-.0237	-.0827	-.1538	-.1370	.1835	.5062	-.0970	-.1643	-.0400
330.000		.6486	.9408	1.0040	.7557	.0000	.0000	-.0587	-.1274	-.1128	.1892	.0000		.0054	-.0485

X/LT	.5528	.6340	.7423	.8506	.9264	.9832
PHI						
.000	-.0658	-.0201	-.0039	.0248	.0764	-.1571
30.000	-.0312	-.0145	-.0122	.0369	.0983	-.1667
60.000	.0319	-.0053	-.0106	.0938	.1262	-.1616
90.000	.0401	.0043	-.0024	.1450	.2430	-.1578
120.000	.0130	-.0122	.0049	.2368	.3474	-.1536
135.000	-.0119	-.0343	.0011	.4103	.3801	
147.000	-.0891	-.0276	.0125	.3647	.3665	-.1562
162.000	-.1550	-.0292	-.0395	.3352	.3166	
180.000	-.1796	.0084	.0268	.3217	.2770	-.1687
198.000	-.1654	-.0934	.0907	.2874	.2383	
213.000	-.1017	-.0090	.0712	.2927	.2189	.0000
225.000	-.0529	-.0049	.0362	.2770	.2538	
240.000	.0070	.0097	.0280	.2075	.2373	-.1590
270.000	.0262	-.0008	.0265	.1389	.2240	-.1434
300.000	.0300	-.0049	.0068	.0850	.1078	-.1441
330.000	.0000	-.0122	.0015	.0435	.1009	-.1609

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT39)

ALPHAT(4) = 3.398 BETAT (3) = 4.102

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5495	.4995	.9100	.9823	.8228	.3181	.0130	-.0490	-.1188	-.1091	.1923	-.0010	.1518	.0400	-.0269
30.000		.5052	.8497	.9033	.8647	.2458	-.0409	-.1013	-.1857	-.1515	.1237	.1266	.0513	.0115	-.0581
60.000		.5811	.7078	.8223	.5806	.1896	-.0945	-.1481	-.2089	-.0886	.1149	.5167	-.1417	-.0889	-.0528
90.000		.5950	.6499	.7593	.5297	.1104	-.1310	-.1773	-.2259	.0701	.4618	.2118	-.2428	-.1811	.0018
120.000		.5313	.6182	.6933	.5069	.0933	-.1447	-.1865	-.2291	-.1014	.0286	.1120	-.1162	-.1953	-.1575
135.000			.633	.6901	.4929	.1053	-.1342	-.1827	-.2367	-.2097	.0729	.0736	.1266	.0564	-.2270
147.000		.5370	.6203	.6975	.4992	.0996	-.1402	-.1918	-.2304	-.2174	.0681	.1273	.2083	.1010	-.2386
162.000			.624d	.7343	.5056	.0777	-.1361	-.1736	-.2382	-.2193	.0522	.1241	.1953	-.1231	-.1168
180.000	1.5405	.5903	.6479	.7810	.5019	.1444	-.1307	-.1673	-.2304	-.2110	.0624	.1219	.3493	.1587	-.1130
198.000			.6815	.8207	.3715	.1403	-.0715	-.1806	-.1957	-.1731	.0624	.1269	.2723	-.0531	.0334
213.000		.6267	.6764	.7692	.0000	-.0819	-.2609	-.1018	-.2389	-.2257	.0146	.1346	.1180	.1218	.0962
225.000			.7964	.8693	.6308	.2995	-.0791	-.1087	-.1592	-.1403	.0918	.0806	-.1963	.0448	.0492
240.000		.6711	.8649	.9170	.6962	.2166	-.0129	-.0851	-.1682	-.1393	.1474	.0828	-.3080	-.1077	-.0370
270.000		.7206	.9072	1.0043	.7693	.3240	.0184	-.0368	-.1184	.2024	.5739	.3297	-.3293	-.1424	.0201
300.000		.7523	.9612	1.0554	.8204	.3761	.0514	-.0164	-.0918	-.0760	.2608	.4314	-.1060	-.0702	-.0357
330.000		.7209	.9603	1.0526	.8135	.0000	.0495	-.0104	-.0879	-.0782	.2337	.0000		-.0505	-.0435

X/LT	.5528	.6340	.7123	.8506	.9264	.9838
PHI						
.000	-.0618	-.0331	-.0238	.0[illegible]	.1000	-.1500
30.000	-.0697	-.0357	-.0225	.0520	.1143	-.1478
60.000	-.0104	-.0290	.0022	.0910	.1814	-.1525
90.000	.0098	-.0289	.0196	.1684	.3391	-.1350
120.000	.0085	-.0371	.0314	.2684	.2364	-.1481
135.000	-.0189	-.0495	.0548	.2917	.3038	
147.000	-.1145	-.0170	.0920	.2980	.2612	-.1589
162.000	-.1512	-.0025	.0403	.2967	.2268	
180.000	-.1107	-.1189	.0277	.2971	.3432	-.1599
198.000	-.2637	-.2149	.0359	.2581	.5022	
213.000	-.0139	-.0181	.0470	.3914	.4323	.0000
225.000	.0195	.0222	.0069	.2952	.4618	
240.000	.0435	.0288	.0170	.2497	.3782	-.1525
270.000	.0520	.0307	.0280	.1432	.1683	-.1363
300.000	.0463	.0265	.0100	.0920	.1124	-.1353
330.000	.0300	.0149	-.0108	.0354	.0877	-.1490

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT39)

ALPHAT(5) = 6.379 BETAT (1) = .411

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5631	.5712	.9687	1.0570	.8915	.3639	.0387	-.0209	-.0951	-.0879	.2385	-.0129	.1983	.0975	.0157
30.000		.5931	.9500	1.0179	.7783	.3352	.0198	-.0448	-.1043	-.0934	.2100	.1699	.0494	.0336	-.0213
60.000		.6508	.8221	.9442	.6972	.2658	-.0234	-.0769	-.1503	-.1394	.1964	.5363	-.1206	-.1040	-.0447
90.000		.6299	.7752	.8574	.6110	.1901	-.0744	-.1327	-.1914	.1330	.5012	.1557	-.3064	-.2704	-.0295
120.000		.6030	.7152	.7776	.5471	.1165	-.1099	-.1658	-.2242	-.1417	.0360	-.0054	-.1928	-.1671	-.1038
135.000			.6883	.7577	.5213	.1124	-.1352	-.1767	-.2270	-.2144	.0375	.1114	-.0219	.0469	-.1423
147.000		.6099	.6639	.7449	.5188	.1150	-.1406	-.1837	-.2330	-.2176	.0570	.1165	.1703	.1164	-.2001
162.000			.6418	.7241	.5140	.0920	-.1504	-.1911	-.2387	-.2221	.0503	.1194	.1990	.0219	-.1003
180.000	1.5631	.5573	.6427	.7062	.4959	.1013	-.1298	-.1923	-.2362	-.2286	.0500	.1159	.3875	.1347	-.1180
198.000			.6376	.7379	.3521	.1204	-.1124	-.2125	-.2204	-.2064	.0503	.0942	.2822	-.0818	-.0734
213.000		.5525	.6443	.7065	.0000	-.0723	-.2593	-.1412	-.2450	-.2376	-.0173	.1197	.2186	.0921	-.0014
225.000			.7046	.7732	.5607	.1977	-.1107	-.1759	-.2080	-.1867	.0273	.0580	-.1575	.0485	-.0687
240.000		.6359	.7587	.8110	.6078	.1325	-.0934	-.1560	-.2254	-.1932	.0395	.0354	-.2758	-.1865	-.0687
270.000		.6620	.8276	.8934	.6590	.2130	-.0703	-.1216	-.1819	.1044	.4522	.2536	-.3493	-.2270	.0172
300.000		.6750	.9054	.9678	.7337	.2939	-.0066	-.0670	-.1407	-.1288	.2002	.6081	-.0374	-.1268	-.0570
330.000		.6191	.9846	1.0352	.7971	.0000	.0273	-.0351	-.1088	-.0898	.2214	.0000		.0311	-.0184

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0367	-.0058	.0031	.0197	.0637	-.1594
30.000	-.0153	.0018	-.0093	.0289	.1115	-.1642
60.000	.0441	-.0010	-.0010	.0816	.2001	-.1700
90.000	.0132	-.0166	.0104	.2111	.3852	-.1725
120.000	-.0045	.0025	.0136	.2656	.3173	-.1530
135.000	-.0039	.0104	.0250	.4316	.4056	
147.000	-.0576	.0313	.0243	.4014	.3986	-.1578
162.000	-.1542	.0874	-.0204	.3762	.3272	
180.000	-.1820	.1060	.0674	.3654	.2912	-.1882
198.000	-.1384	-.0477	.1267	.3295	.2613	
213.000	-.1128	.0155	.0999	.3191	.2476	.0000
225.000	-.0500	.0164	.0715	.3110	.2801	
240.000	-.0007	.0129	.0608	.2533	.2511	-.1677
270.000	.0308	-.0239	.0336	.1975	.4235	-.1459
300.000	.0492	.0053	.0086	.0752	.2125	-.1482
330.000	.0000	.0101	.0083	.0444	.1090	-.1655

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT40) (30 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPOBRK = .000

ALPHAT(1) = -7.023 BETAT (1) = .065

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2100	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6704	.3005	.3647	.5796	.5499	.1264	-.0705	-.1077	-.1465	-.1463	.0406	-.0809	.0495	.0354	-.0287
30.000		.3395	.3553	.6771	.4982	.1405	-.0635	-.1022	-.1378	-.1381	.0370	-.0084	-.0176	-.1127	-.1230
60.000		.3563	.3550	.7622	.5421	.1741	-.0366	-.0823	-.1253	-.1263	.0428	.1909	-.2705	-.2617	-.1282
90.000		.3773	.3412	.8718	.6258	.2289	.0014	-.0453	-.0952	-.0793	.4148	.3473	-.2705	-.1745	-.0467
120.000		.3979	.3318	.9715	.7091	.2891	.0525	-.0025	-.0583	-.0577	.1977	.3512	.0856	.0785	.0355
135.000			.3392	1.0258	.7492	.3322	.0689	.0210	-.0353	-.0407	.1974	.2166	.2008	.2668	.0849
147.000		.4276	.3457	1.0576	.7896	.3664	.0873	.0384	-.0244	-.0251	.2314	.1973	.3225	.3327	.0759
162.000			.3609	1.0804	.8261	.3722	.0989	.0378	-.0128	-.0139	.2434	.1115	.3467	.0885	.1026
180.000	1.6704	.4511	.3732	1.0882	.8594	.3419	.1111	.0615	-.0192	-.0087	.2535	.0550	.4103	.6011	.1632
198.000			.3800	1.0671	.7608	.4368	.0924	.0493	-.0157	-.0182	.2344	.1876	.2915	.0814	.2858
213.000		.4008	.4317	.9117	.0000	.1431	-.0189	.0692	-.0295	-.0257	.1177	.1973	.3193	.2375	.2826
225.000			.5130	1.0328	.6607	.3503	.0892	.0003	-.0355	-.0182	.1819	.2273	.1950	.2415	.1071
240.000		.3489	.3690	.9766	.7285	.3051	.0390	-.0039	-.0620	-.0571	.1650	.2618	.1461	.1128	.0710
270.000		.3486	.3420	.8823	.6455	.2305	-.0047	-.0481	-.0960	-.1015	.3112	5408	-.2311	-.1924	-.0665
300.000		.3402	.3511	.7677	.5370	.1661	-.0478	-.0833	-.1293	-.1280	.0412	.1876	-.1799	-.2780	-.1439
330.000		.3196	.3599	.6578	.4985	.0000	-.0697	-.1019	-.1453	-.1373	.0351	.0000		-.0983	-.1078

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1081	-.0783	-.0424	-.0026	.0024	-.1558
30.000	-.0273	-.0610	-.0344	-.0222	.0335	-.1636
60.000	-.1710	-.0674	-.0208	-.0228	.1424	-.1678
90.000	-.0536	-.1236	-.0663	-.0318	.5005	-.1740
120.000	.1092	.0690	-.0006	.0132	.2702	-.1684
135.000	.1012	.0233	.0043	.2248	.3026	
147.000	.1163	.0133	.0400	.1079	.2902	-.1860
162.000	.0749	.0281	.0379	.0430	.4097	
180.000	.0470	-.0057	.0421	.1224	.4391	-.1921
198.000	-.0357	-.0411	.0523	.0742	.3529	
213.000	.0291	.0255	.0356	.0812	.0897	.0000
225.000	.1243	.0635	-.0051	.1054	.1564	
240.000	.1310	.0519	.0093	.0354	.2094	-.1697
270.000	-.0632	-.1071	-.0443	-.0254	.4488	-.1697
300.000	-.1607	-.0617	-.0067	-.0212	.1499	-.1710
330.000	.0000	-.0668	-.0414	-.0189	.0608	-.1753

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT40)

ALPHAT(2) = -4.888 BETAT (1) = -4.398

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6721	.2738	.3774	.7268	.6556	.1518	-.0520	-.0915	-.1322	-.1336	.0420	-.0837	.0308	.0131	-.0416
30.000		.3791	.3803	.8152	.5770	.1975	-.0279	-.0721	-.1170	-.1165	.0729	.0117	.0068	-.1389	-.1445
60.000		.4017	.3580	.9238	.6520	.2606	.0111	-.0372	-.0864	-.0840	.1156	.2785	-.2368	-.2162	-.1007
90.000		.4166	.3506	1.0157	.7309	.3108	.0504	.0000	-.0487	-.0433	.5392	.4027	-.2805	-.1978	-.0929
120.000		.4344	.3697	1.0655	.7851	.3507	.0857	.0314	-.0268	-.0292	.2420	.5916	.0068	-.0043	.0577
135.000			.3739	1.0818	.7864	.3611	.0954	.0362	-.0262	-.0260	.2270	.1857	.1792	.2234	.1154
147.000		.4412	.3771	1.0818	.7907	.3594	.0879	.0304	-.0246	-.0240	.2319	.1860	.2855	.3176	.1476
162.000			.3797	1.0638	.7832	.3614	.0805	.0363	-.0333	-.0371	.2250	.1442	.3333	.1843	.0686
180.000	1.6721	.4428	.3813	1.0233	.8585	.3124	.0501	.0160	-.0371	-.0463	.2035	.1701	.3133	.5169	.0625
198.000			.3948	.9703	.7971	.3487	.0181	.0038	-.0700	-.0660	.1703	.1520	.2726	.0164	.2024
213.000		.4279	.4144	.7196	.0000	.0600	-.0715	.0044	-.0816	-.0637	.0511	.1180	.2415	.1781	.1605
225.000			.4255	.8829	.5812	.2528	.0197	-.0565	-.0906	-.0784	.1013	.1394	.1234	.1621	.0232
240.000		.3761	.3562	.8322	.6539	.2052	-.0268	-.0642	-.1172	-.1116	.1117	.1653	.1131	.0470	.0038
270.000		.3269	.3555	.7413	.5400	.1685	-.0521	-.0929	-.1388	-.1221	.2091	.4938	-.3097	-.1693	-.0794
300.000		.2978	.3722	.6289	.5062	.1386	-.0673	-.1035	-.1496	-.1421	.0335	.1957	-.1318	-.2357	-.1077
330.000		.2923	.3849	.6572	.5082	.0000	-.0695	-.1035	-.1477	-.1391	.0280	.0000		-.0320	-.0582

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0981	-.0769	-.0573	-.0130	-.0010	-.1658
30.000	-.0266	-.0302	-.0560	-.0463	-.0316	-.1579
60.000	-.0559	-.0865	-.0253	-.0030	.1803	-.1700
90.000	-.0215	-.0929	.0116	-.0188	.6335	-.1729
120.000	.1577	.1068	.0466	.0735	.3064	-.1794
135.000	.0933	.0893	.0346	.2239	.3523	
147.000	.0707	.0735	.0647	.1190	.4077	-.1592
162.000	.0591	.0175	.0219	.0509	.5741	
180.000	-.0037	.0045	.0619	-.0117	.5151	-.1684
198.000	.0095	.0252	.0251	.0432	.4239	
213.000	-.1152	-.0864	-.0149	.0270	.0253	.0000
225.000	.0398	.0100	-.0253	.0657	.1464	
240.000	.0878	.0010	-.0463	.0585	.0909	-.1658
270.000	-.1126	-.0525	-.0592	.0699	.5333	-.1690
300.000	-.0563	-.0716	-.0137	-.0076	.1921	-.1716
330.000	.0000	-.0787	-.0282	-.0112	.0125	-.1664

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT40)

ALPHAT(2) = -4.868 BETAT (2) = .032

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6639	.2993	.3827	.6895	.7182	.1542	-.0526	-.0937	-.1350	-.1334	.0586	-.0840	.0608	.0456	-.0142
30.000		.3279	.3788	.7361	.5476	.1723	-.0465	-.0885	-.1269	-.1258	.0651	.0167	-.0479	-.0747	-.0906
60.000		.3509	.3766	.7974	.5746	.1994	-.0203	-.0668	-.1150	-.1149	.0732	.2743	-.2399	-.2338	-.1106
90.000		.3610	.3668	.8829	.6251	.2391	.0042	-.0431	-.0917	-.0837	.4386	.3608	-.3027	-.1868	-.0948
120.000		.3717	.3808	.9515	.6814	.2704	.0393	-.0126	-.0710	-.0698	.1766	.4213	.0269	.0174	-.0152
135.000			.3863	.9905	.7052	.2959	.0457	-.0042	-.0532	-.0553	.1736	.1756	.1486	.2446	.0614
147.000		.3831	.3947	1.0154	.7468	.3211	.0545	.0098	-.0455	-.0494	.1982	.1854	.2807	.3062	.0585
162.000			.4008	1.0291	.7833	.3367	.0672	.0075	-.0422	-.0389	.2031	.1516	.2990	.0712	.0918
180.000	1.6639	.4003	.4060	1.0291	.8298	.2898	.0681	.0311	-.0464	-.0399	.2080	.1133	.3799	.5395	.1410
198.000			.4181	1.0180	.7393	.3784	.0629	.0169	-.0384	-.0415	.1785	.1457	.2747	.0466	.2904
213.000		.3675	.4601	.9010	.0000	.1175	-.0399	.0415	-.0513	-.0540	.0850	.1519	.2754	.2109	.2302
225.000			.5273	.9922	.6739	.3283	.0659	-.0196	-.0511	-.0395	.1694	.2140	.1519	.2063	.0866
240.000		.3383	.4050	.9581	.7432	.2714	.0250	-.0245	-.0734	-.0652	.1635	.2817	.0689	.0511	.0275
270.000		.3415	.3834	.8936	.6619	.2430	.0007	-.0468	-.0972	-.0958	.3324	.5446	-.2856	-.1992	-.0931
300.000		.3344	.3863	.8025	.5662	.1878	-.0344	-.0730	-.1209	-.1173	.0742	.2505	-.1492	-.2503	-.1200
330.000		.3091	.3939	.7380	.5424	.0000	-.0558	-.0927	-.1337	-.1243	.0618	.0000		-.0508	-.0800

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0900	-.0887	-.0423	-.0012	.0031	-.1694
30.000	-.0467	-.0380	-.0355	-.0106	.0599	-.1628
60.000	-.0150	-.0564	-.0371	-.0225	.1889	-.1707
90.000	-.0599	-.1361	-.0430	-.0145	.6218	-.1645
120.000	.0777	.0537	-.0232	.0186	.2700	-.1628
135.000	.0703	.0067	-.0063	.2130	.2934	
147.000	.0622	-.0060	.0336	.1069	.2552	-.1861
162.000	.0477	-.0183	.0435	.1108	.3960	
180.000	.0183	-.0371	.0318	.1104	.3722	-.1952
198.000	-.0519	-.0582	.0367	.0771	.3046	
213.000	-.0147	-.0031	.0250	.0852	.1008	.0000
225.000	.0758	.0430	-.0280	.1100	.1565	
240.000	.1120	.0323	-.0070	.0365	.2030	-.1651
270.000	-.0670	-.1273	-.0212	-.0183	.5433	-.1671
300.000	-.0687	-.1173	-.0109	-.0186	.1684	-.1687
330.000	.0000	-.0400	-.0339	-.0173	.0294	-.1730

ARC97-019 IASI LVAP(ALLML SEALED) EXTERNAL TANK (RETT40)

ALPHAT(2) = -4.813 BETAT (3) = 3.788

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6826	.3172	.3834	.7294	.6643	.1800	-.0546	-.0952	-.1382	-.1380	.0498	-.0840	.0491	.0115	-.0478
30.000		.3175	.3894	.6284	.5151	.1433	-.0852	-.1039	-.1411	-.1429	.0306	.0202	-.0733	-.0208	-.0619
60.000		.3341	.3805	.6832	.5151	.1387	-.0685	-.1088	-.1463	-.1432	.0388	.2314	-.2278	-.2405	-.0938
90.000		.3513	.3894	.7349	.5135	.1568	-.0585	-.0955	-.1333	-.0849	.3214	.4233	-.3174	-.1835	-.0808
120.000		.3646	.3636	.8191	.5928	.1872	-.0274	-.0744	-.1133	-.1152	.1044	.2250	.0770	.0303	-.0618
135.000			.3597	.8876	.5925	.2336	-.0037	-.0482	-.0975	-.1007	.1024	.1520	.1870	.1995	.0066
147.000		.3779	.3659	.9325	.6910	.2678	.0193	-.0342	-.0842	-.0822	.1305	.1406	.2565	.2946	-.0009
162.000			.3808	.9754	.6874	.2769	.0303	-.0100	-.0584	-.0667	.1582	.1383	.2396	-.0147	.0550
180.000	1.6826	.3922	.3984	1.0196	.7404	.3159	.0835	.0101	-.0368	-.0513	.1893	.1575	.3595	.5086	.0259
198.000			.4394	1.0613	.6965	.3934	.1094	.0227	-.0080	-.0265	.1990	.1393	.3178	.0814	.2982
213.000		.3863	.4650	1.0554	.0000	.1859	-.0096	.0837	-.0213	-.0351	.1279	.1906	.3007	.2884	.2601
225.000			.5947	1.0833	.7758	.4344	.1194	.0307	-.0071	-.0008	.1791	.1831	.1060	.2385	.1614
240.000		.4094	.4476	1.0771	.8327	.3517	.1013	.0249	-.0242	-.0272	.2356	.4188	.0368	.0230	.0579
270.000		.4139	.4217	1.0284	.7687	.3325	.0627	.0068	-.0532	-.0496	.4484	.6021	-.2576	-.2347	-.1186
300.000		.3821	.4007	.9373	.6695	.2662	.0151	-.0319	-.0878	-.0852	.1184	.2594	-.1522	-.2505	-.1092
330.000		.3545	.3880	.8411	.5867	.0000	-.0245	-.0658	-.1188	-.1143	.0718	.0000		-.1389	-.1416

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1043	-.0820	-.0526	-.0137	-.0017	-.1684
30.000	-.1026	-.0707	-.0319	-.0088	.0404	-.1737
60.000	-.0272	-.0704	-.0199	-.0043	.1611	-.1645
90.000	-.1068	-.0418	-.0539	-.0240	.6276	-.1583
120.000	.0311	.0047	-.0290	.0690	.0914	-.1492
135.000	.0433	-.0649	-.0186	.0774	.2117	
147.000	.0040	-.0251	-.0144	.0816	.1538	-.1580
162.000	-.0195	-.0659	-.0337	.1080	.3260	
180.000	-.0408	-.0769	-.0308	.0719	.4263	-.1697
198.000	-.1316	-.1590	.0548	.0680	.4964	
213.000	.0846	.0454	.0554	.0990	.2130	.0000
225.000	.1116	.0762	.0067	.1499	.2291	
240.000	.1600	.0749	.0396	.0848	.2104	-.1835
270.000	-.0211	-.0853	.0122	-.0053	.6792	-.1786
300.000	-.0353	-.0950	-.0140	-.0043	.1765	-.1776
330.000	.0000	-.0290	-.0543	-.0464	-.0320	-.1946

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT40)

ALPHAT(3) = -.361 BETAT (1) = -6.518

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6762	.2722	.4172	.8867	.7821	.2231	-.0092	-.0549	-.1011	-.1030	.0978	-.0672	.0346	.0282	-.0208
30.000		.4027	.3745	.9889	.6343	.2979	.0391	-.0125	-.0653	-.0639	.1607	.0723	.0362	-.0892	-.0914
60.000		.4279	.3687	1.0648	.7213	.3523	.0801	.0280	-.0343	-.0348	.2116	.4428	-.1525	-.1736	-.0514
90.000		.4337	.3764	1.0973	.8077	.3783	.0979	.0398	-.0201	-.0198	.5991	.4817	-.2973	-.1685	.0159
120.000		.4263	.3661	1.0645	.7834	.3546	.0810	.0286	-.0324	-.0326	.2213	.3499	-.0944	-.1021	.0056
135.000			.3564	1.0344	.7473	.3354	.0632	.0157	-.0395	-.0438	.1949	.1237	-.0027	.0217	.0852
147.000		.4143	.3528	1.0036	.7213	.3053	.0458	.0037	-.0543	-.0612	.1767	.1114	.1500	.2972	.1142
162.000			.3572	.9522	.6736	.2534	.0196	-.0295	-.0730	-.0750	.1395	.1124	.2832	.1494	.0610
180.000	1.6762	.4001	.3732	.8880	.6512	.2531	-.0011	-.0540	-.0960	-.0958	.1082	.1208	.3781	.4103	.0227
198.000			.3965	.8163	.7148	.2321	-.0380	-.0643	-.1173	-.1175	.0860	.0939	.2299	-.0452	.1612
213.000		.3797	.4079	.6142	.0000	.0047	-.1079	-.0556	-.1250	-.1109	.0016	.0916	.1872	.1177	.0791
225.003			.4053	.7340	.5021	.1774	-.0351	-.1021	-.1297	-.1188	.0459	.1114	.0961	.0945	-.0389
240.000		.3515	.3588	.6866	.5712	.1284	-.0639	-.1014	-.1471	-.1412	.0560	.1759	.0017	-.0331	-.0705
270.000		.3136	.3683	.5771	.4936	.1271	-.0701	-.1047	-.1511	-.1448	.3149	.4322	-.2796	-.1143	-.0021
300.000		.3201	.3627	.6716	.5111	.1413	-.0694	-.1024	-.1474	-.1438	.0512	.1733	-.0278	-.1491	-.0279
330.000		.2900	.3778	.7775	.5444	.0000	-.0439	-.0824	-.1303	-.1272	.0498	.0000		-.0115	-.0035

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0656	-.0463	-.0384	-.0328	-.0102	-.1500
30.000	-.0137	.0043	-.0316	-.0225	.0381	-.1520
60.000	.0153	.0058	-.0157	-.0299	.1989	-.1556
90.000	-.0514	-.1170	-.0733	-.0515	.7351	-.1660
120.000	.1435	.0914	.0846	.1312	.4166	-.1781
135.000	.0494	.0395	.0503	.3397	.4065	
147.000	.0636	.0361	.0697	.1709	.4471	-.1262
162.000	-.0282	-.0060	.0510	.0558	.6214	
180.000	-.0395	-.0574	-.0406	.1180	.4890	-.1409
198.000	-.0440	-.0875	.0030	.0793	.4296	
213.000	-.1774	-.1357	-.0331	.0510	-.0395	.0000
225.000	-.0163	-.0442	-.0406	.0693	.1584	
240.000	.0095	-.0950	-.0431	.0746	.1035	-.1458
270.000	-.1046	-.0377	-.0557	.0407	.4977	-.1484
300.000	.0088	-.0261	-.0325	.0233	.1893	-.1477
330.000	.0000	-.0549	-.0248	-.0197	.0329	-.1474

ARC97-018 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT40)

ALPHAT(3) = -.350 BETAT (2) = -4.378

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2584	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6838	.2629	.4259	.8855	.8081	.2254	-.0048	-.0477	-.0950	-.0936	.1148	-.0652	.0469	.0537	.0016
30.000		.3699	.3987	.9627	.6357	.2750	.0296	-.0202	-.0728	-.0762	.1449	.0719	.0158	-.0653	-.0768
60.000		.4042	.4000	1.0137	.6844	.3101	.0522	-.0037	-.0557	-.0529	.1859	.4824	-.1584	-.1720	-.0594
90.000		.4162	.3981	1.0382	.7490	.3266	.0594	.0060	-.0479	-.0437	.5430	.4255	-.2976	-.1613	.0090
120.000		.4149	.3977	1.0156	.7331	.3108	.0513	.0011	-.0518	-.0513	.1908	.3730	-.0909	-.1041	.0270
135.000			.3968	.9986	.7085	.3014	.0467	-.0029	-.0573	-.0647	.1671	.1060	.0408	.0783	.0677
147.000		.3984	.3929	.9816	.6942	.2821	.0396	-.0157	-.0718	-.0687	.1605	.1238	.1988	.2794	.0906
162.000			.3924	.9466	.6630	.2621	.0121	-.0251	-.0773	-.0838	.1377	.1274	.2684	.1892	.0399
180.000	1.6838	.3803	.3914	.8924	.6916	.2399	-.0079	-.0457	-.0834	-.0923	.1241	.1290	.2732	.4355	.0419
198.000			.3934	.8309	.7007	.2608	-.0241	-.0498	-.1027	-.1028	.1017	.1310	.2328	.0253	.2115
213.000		.3580	.4166	.6710	.0000	.0398	-.0956	-.0380	-.1082	-.1051	.0075	.0855	.1943	.1513	.1415
225.000			.4496	.7799	.5724	.2187	-.0176	-.0837	-.1127	-.1035	.0746	.1212	.1116	.1231	.0006
240.000		.3243	.4039	.7468	.6325	.1623	-.0400	-.0863	-.1301	-.1225	.0804	.2014	-.0245	-.0552	-.0713
270.000		.3204	.3839	.6809	.5526	.1607	-.0526	-.0873	-.1360	-.1294	.2996	.4966	-.2816	-.1648	-.0065
300.000		.3204	.4101	.7416	.5568	.1819	-.0500	-.0831	-.1297	-.1281	.0762	.2160	-.0391	-.1554	-.0652
330.000		.2713	.4209	.7867	.5764	.0000	-.0267	-.0683	-.1209	-.1127	.0791	.0000		.0006	-.0237

X/LT	.5528	.6340	.7423	.8508	.9264	.9838
PHI						
.000	-.0505	-.0508	-.0307	-.0201	-.0054	-.1538
30.000	-.0111	.0089	-.0285	-.0162	.0472	-.1500
60.000	.0118	-.0024	-.0091	-.0158	.1770	-.1480
90.000	-.0782	-.1330	-.0531	-.0298	.6908	-.1565
120.000	.1001	.0647	.0427	.0819	.3530	-.1663
135.000	.0469	.0245	.0094	.2888	.3887	
147.000	.0350	.0223	.0411	.1442	.4040	-.1552
162.000	.0163	-.0214	.0109	.1032	.5591	
180.000	-.0392	-.0424	.0264	.0535	.5045	-.1627
198.000	-.0182	-.0168	.0006	.0780	.4333	
213.000	-.1724	-.1272	-.0253	.0745	.0561	.0000
225.000	-.0098	-.0298	-.0262	.0838	.1816	
240.000	.0298	-.0388	-.0453	.0897	.1200	-.1520
270.000	-.1166	-.1000	-.0614	.0459	.5029	-.1548
300.000	.0169	-.0116	-.0295	.0321	.2148	-.1548
330.000	.0000	-.0405	-.0253	-.0143	.0355	-.1559

ARC97-019 IABI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT40)

ALPHAT(3) = -.360 BETAT (3) = .017

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6601	.3133	.4284	.8784	.0920	.2349	-.0039	-.0462	-.0952	-.0952	.1202	-.0571	.0694	.0784	.0210
30.000		.3477	.4031	.8837	.6456	.2401	.0025	-.0449	-.0923	-.0903	.1251	.0609	-.0287	.0026	-.0269
60.000		.3727	.3970	.8784	.6365	.2407	.0038	-.0365	-.0881	-.0883	.1335	.4383	-.1564	-.1814	-.0854
90.000		.3795	.3947	.8784	.6375	.2410	.0085	-.0397	-.0917	-.0874	.4515	.4191	-.2954	-.1597	-.0334
120.000		.3860	.3960	.8771	.6414	.2352	.0082	-.0349	-.0849	-.0883	.1395	.3928	-.0781	-.1198	-.0731
135.000			.3957	.8870	.6359	.2326	.0095	-.0384	-.0898	-.0841	.1297	.0902	.1155	.1345	.0142
147.000		.3817	.3950	.8945	.6443	.2317	.0024	-.0413	-.0846	-.0877	.1343	.1343	.2227	.2200	.0491
162.000			.3968	.8942	.6440	.2481	.0098	-.0378	-.0940	-.0844	.1379	.1424	.2741	.0629	.0433
180.000	1.6601	.3655	.4014	.8915	.7625	.2062	.0037	-.0300	-.0962	-.0867	.1362	.1207	.2417	.3937	.0983
198.000			.4119	.8928	.6964	.2797	.0017	-.0384	-.0823	-.0867	.1056	.1213	.2119	.0538	.2483
213.000		.3412	.4276	.8673	.0000	.0768	-.0724	-.0087	-.0881	-.0926	.0368	.1519	.2054	.1921	.1380
225.000			.4889	.8950	.7055	.2794	.0192	-.0516	-.0808	-.0703	.0831	.1191	.0545	.1413	.0588
240.000		.3486	.4266	.8973	.7498	.2184	.0095	-.0494	-.0966	-.0867	.1431	.3071	-.0440	-.0864	-.0547
270.000		.3749	.4220	.9077	.6381	.2255	-.0080	-.0436	-.0962	-.0903	.3708	.5519	-.2980	-.2025	-.0085
300.000		.3723	.4243	.8950	.6365	.2333	-.0044	-.0429	-.0946	-.0910	.1346	.3399	-.0615	-.1659	-.1029
330.000		.3594	.4243	.8953	.6375	.0000	-.0018	-.0462	-.1018	-.0953	.1173	.0000		.0012	-.0209

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0477	-.0709	-.0206	-.0087	.0018	-.1520
30.000	-.0657	-.0222	-.0271	-.0058	.0209	-.1601
60.000	.0021	-.0076	-.0148	-.0116	.1834	-.1526
90.000	-.1197	-.1548	-.0780	-.0181	.2182	-.1523
120.000	.0163	.0035	-.0284	.0279	.2743	-.1601
135.000	.0282	-.0167	-.0342	.2272	.2951	
147.000	.0053	-.0407	.0222	.1586	.2542	-.1863
162.000	-.0247	-.0718	.0311	.1541	.3419	
180.000	-.0328	-.0971	.0117	.1521	.2707	-.1951
198.000	-.0228	-.0644	.0062	.1224	.2196	
213.000	-.1329	-.0469	.0078	.1327	.1445	.0000
225.000	.0111	.0043	-.0407	.1336	.1831	
240.000	.0595	.0060	-.0320	.0631	.2266	-.1572
270.000	-.0912	-.1458	-.0491	-.0068	.5932	-.1572
300.000	.0185	.0024	-.0210	-.0071	.1755	-.1572
330.000	.0000	-.0167	-.0271	-.0074	.0673	-.1627

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT40)

ALPHAT(3) = -.320 BETAT (4) = 3.752

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.6739	.2595	.4491	.9135	.9766	.2404	-.0004	-.0452	-.0929	-.0942	.1160	-.0688	.0639	.0451	-.0036
30.000		.2815	.4345	.8214	.5830	.1978	-.0249	-.0675	-.1138	-.1136	.0824	.0502	-.0397	-.0065	-.0237
60.000		.3399	.4037	.7556	.5586	.1716	-.0439	-.0870	-.1274	-.1284	.0785	.3133	-.1435	-.1368	-.1068
90.000		.3700	.4034	.7199	.5563	.1649	-.0572	-.0970	-.1342	-.1117	.3795	.5310	-.1950	-.1738	-.1168
120.000		.3587	.4001	.7490	.5583	.1565	-.0429	-.0873	-.1309	-.1281	.0802	.2807	-.0530	-.0664	-.0557
135.000			.3998	.7821	.5651	.1723	-.0420	-.0821	-.1213	-.1225	.0710	.0756	.0655	.1466	-.0256
147.000		.3616	.3933	.8113	.5840	.2023	-.0274	-.0659	-.1177	-.1136	.0831	.1238	.1983	.2306	-.0098
162.000			.3948	.8516	.6490	.2136	-.0222	-.0642	-.1006	-.1061	.0978	.1013	.2072	-.0405	.0349
180.000	1.6739	.3509	.4030	.8987	.7320	.2162	.0154	-.0471	-.0877	-.0939	.1186	.1069	.3409	.4240	-.0110
198.000			.4142	.9456	.6048	.2978	.0471	-.0393	-.0587	-.0706	.1336	.1078	.2617	.0827	.2166
213.000		.3603	.4214	.9348	.0000	.1081	-.0659	.0194	-.0722	-.0808	.0837	.1401	.2215	.2251	.1720
225.000			.5216	.9919	.7961	.3559	.0461	-.0038	-.0446	-.0410	.1607	.1059	.0075	.1225	.0911
240.000		.3995	.4463	1.0176	.8315	.2985	.0659	.0065	-.0620	-.0512	.1956	.3582	-.0768	-.0903	-.0292
270.000		.4082	.4482	1.0466	.7512	.3250	.0571	.0130	-.0492	-.0485	.4612	.6111	-.3041	-.2038	.0168
300.000		.3959	.4453	1.0235	.7307	.3230	.0565	.0081	-.0538	-.0551	.1884	.4399	-.0697	-.1653	-.0951
330.000		.3684	.4371	.9815	.6896	.0000	.0296	-.0174	-.0742	-.0672	.1496	.0000		-.0592	-.0828

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0637	-.0602	-.0391	-.0194	-.0138	-.1545
30.000	-.0676	-.0531	-.0281	-.0071	.0234	-.1623
60.000	.0003	-.0217	-.0261	-.0012	.2094	-.1600
90.000	-.1271	-.1070	-.0528	.0703	.6376	-.1561
120.000	-.0078	-.0245	-.0616	.1065	.1480	-.1469
135.000	-.0747	-.1113	-.0339	.1075	.2334	
147.000	-.0547	-.0911	-.0193	.1188	.1668	-.1659
162.000	-.0606	-.1148	-.0634	.1356	.2648	
180.000	-.0786	-.1083	-.1048	.0903	.3836	-.1702
198.000	-.1439	-.1752	.0221	.0641	.4787	
213.000	.0126	.0076	.0412	.0952	.2110	.0000
225.000	.0692	.0349	.0085	.1309	.2404	
240.000	.0937	.0362	.0318	.0808	.2852	-.1858
270.000	-.0731	-.1278	-.0346	-.0175	.7041	-.1685
300.000	.0100	-.0080	-.0116	-.0326	.1912	-.1672
330.000	.0000	.0028	-.0216	-.0244	.0511	-.1783

ARC27-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT40)

ALPHAT(3) = -.303 BETAT (5) = 6.530

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6718	.2272	.4279	.8823	.7971	.2248	-.0082	-.0531	-.1003	-.1001	.1005	-.0731	.0523	.0184	-.0250
30.000		.2581	.3922	.7741	.5397	.1715	-.0448	-.0842	-.1248	-.1275	.0537	.0413	-.0453	-.0167	-.0360
60.000		.3055	.3711	.6804	.5010	.1340	-.0679	-.1085	-.1465	-.1443	.0596	.2266	-.1407	-.1250	-.0842
90.000		.3185	.3691	.6037	.4899	.1318	-.0803	-.1157	-.1484	-.1324	.3845	.5309	-.1901	-.1662	-.1101
120.000		.3298	.3675	.6706	.5000	.1195	-.0712	-.1098	-.1465	-.1436	.0551	.2414	-.0287	-.0297	-.0725
135.000			.3630	.7233	.5130	.1457	-.0641	-.0982	-.1394	-.1390	.0453	.0598	.0926	.1118	-.0522
147.000		.3298	.3604	.7617	.5528	.1747	-.0459	-.0917	-.1335	-.1294	.0472	.1099	.1870	.1955	-.0214
162.000			.3618	.8118	.6342	.1789	-.0388	-.0680	-.1174	-.1173	.0537	.0982	.1735	-.0725	-.0314
180.000	1.6718	.3324	.3660	.8741	.6850	.2177	-.0011	-.0534	-.0948	-.0939	.1106	.1092	.3152	.3547	-.0502
198.000			.3706	.9449	.5609	.2794	.0608	-.0453	-.0515	-.0576	.1397	.1252	.2611	.0797	.3204
213.000		.3769	.3801	.9210	.0000	.0953	-.0897	.0264	-.0776	-.0899	.1054	.1288	.2260	.2046	.2026
225.000			.4991	1.0158	.8170	.3915	.0482	.0209	-.0273	-.0254	.1963	.1184	-.0170	.0608	.1288
240.000		.4373	.4509	1.0578	.8548	.3400	.0884	.0364	-.0372	-.0260	.2316	.3618	-.0777	-.0952	-.0165
270.000		.4461	.4519	1.0979	.8235	.3703	.0897	.0445	-.0184	-.0188	.5331	.6432	-.2993	-.2072	.0226
300.000		.4305	.4506	1.0666	.7704	.3589	.0826	.0319	-.0319	-.0329	.2260	.4353	-.0751	-.1674	-.0839
330.000		.3873	.4280	.9900	.7010	.0000	.0427	-.0046	-.0652	-.0620	.1626	.0000		-.0826	-.1027

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0685	-.0520	-.0431	-.0380	-.0333	-.1523
30.000	-.0708	-.0585	-.0325	-.0192	.0195	-.1572
60.000	-.0003	-.0262	-.0377	-.0101	.1938	-.1526
90.000	-.0998	-.0799	-.0608	.0287	.6680	-.1481
120.000	-.0094	-.0494	-.0621	.0919	.1674	-.1402
135.000	-.0598	-.1043	-.0682	.1071	.2179	
147.000	-.0943	-.0946	-.0678	.1527	.1660	-.1477
162.000	-.1263	-.1602	-.1011	.1359	.2452	
180.000	-.1373	-.1332	-.1046	.0019	.3387	-.1762
198.000	-.1835	-.2229	.0119	-.0302	.6670	
213.000	.0542	.0007	.0621	.1064	.2604	.0000
225.000	.0986	.0517	.0252	.1872	.2921	
240.000	.1192	.0754	.0741	.1093	.3905	-.2017
270.000	-.0410	-.1124	-.0480	-.0161	.6885	-.1641
300.000	.0106	-.0068	-.0257	-.0280	.2248	-.1647
330.000	.0000	-.0058	-.0276	-.0300	.0407	-.1929

ARC97-019 IAS1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT40)

ALPHAT(4) = 3.452 BETAT (1) = -4.368

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6669	.2533	.4689	1.0147	.8564	.3178	.0545	.0074	-.0466	-.0481	.1920	-.0229	.0485	.0896	.0508
30.000		.4057	.4280	1.0710	.7839	.3634	.0857	.0323	-.0256	-.0310	.2243	.1108	.0475	.0275	-.0060
60.000		.4491	.3914	1.0737	.7843	.3627	.0864	.0288	-.0317	-.0306	.2305	.5972	-.0562	-.0801	-.0754
90.000		.4313	.3652	1.0239	.7401	.3211	.0582	.0055	-.0495	-.0484	.5006	.4682	-.2974	-.1568	.0250
120.000		.4092	.3632	.9289	.6647	.2566	.0171	-.0321	-.0837	-.0836	.1222	.2203	-.1570	-.1480	-.0218
135.000			.3720	.8821	.6198	.2408	-.0104	-.0538	-.0973	-.0958	.1062	.0482	-.0562	-.0818	.0915
147.000		.3937	.3791	.8428	.5938	.2140	-.0195	-.0596	-.1083	-.1116	.0877	.0786	.0874	.2260	.0447
162.000			.3837	.7855	.5613	.1660	-.0415	-.0795	-.1202	-.1224	.0622	.1000	.1911	.1462	.0221
180.000	1.6669	.3707	.3801	.7305	.5678	.1625	-.0534	-.0886	-.1283	-.1320	.0534	.0887	.2761	.3568	.0276
198.000			.3752	.6853	.6198	.1857	-.0641	-.0937	-.1309	-.1349	.0371	.0702	.1934	-.0210	.2135
213.000		.3415	.3919	.5458	.0000	.0051	-.1247	-.0737	-.1373	-.1445	-.0274	.0699	.1740	.1284	.1157
225.000			.4072	.6204	.4950	.1802	-.0486	-.1063	-.1300	-.1241	.0087	.0790	.0340	.0879	-.0428
240.000		.3140	.3771	.6091	.5444	.1386	-.0567	-.1024	-.1448	-.1386	.0466	.1986	-.1173	-.1513	.0217
270.000		.3188	.3804	.7274	.5314	.1547	-.0521	-.0921	-.1789	-.1320	.2373	.4883	-.3065	-.1565	.0356
300.000		.2990	.3912	.8142	.5753	.2102	-.0259	-.0653	-.1178	-.1155	.1020	.1441	.0877	-.0771	-.0887
330.000		.2096	.4017	.9230	.6560	.0000	.0200	-.0266	-.0839	-.0780	.1297	.0000		.0443	.0295

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0050	-.0182	-.0038	.0018	-.0116	-.1311
30.000	-.0063	.0423	.0160	.0099	.0673	-.1315
60.000	.0578	.0572	.0364	.0160	.1338	-.1279
90.000	.1084	.0503	.0390	.0438	.3513	-.1360
120.000	.0620	.0536	.0257	.1054	.4484	-.1295
135.000	-.0173	-.0009	-.0047	.3220	.4695	
147.000	.0414	.0205	.0196	.2181	.4682	-.1618
162.000	-.0015	-.0138	.0012	.2381	.5844	
180.000	-.0656	-.0572	.0283	.2723	.5315	-.1618
198.000	-.0385	-.0192	.0150	.1513	.4477	
213.000	-.1810	-.1168	.0083	.1393	.1088	.0000
225.000	-.0411	-.0394	.0067	.1630	.2255	
240.000	-.0031	-.0371	-.0143	.1538	.1873	-.1458
270.000	.0852	.0205	-.0518	.1291	.3549	-.1481
300.000	.0559	.0322	-.0243	.0266	.1640	-.1442
330.000	.0000	-.0206	-.0024	-.0188	.0550	-.1373

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT40)

ALPHAT(4) = 3.471 BETAT (2) = .014

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6628	.2111	.5186	1.0154	.9985	.3253	.0580	.0108	-.0442	-.0423	.2032	-.0179	.0670	.1177	.0761
30.000		.2091	.5608	.9918	.7210	.3188	.0580	.0069	-.0497	-.0492	.1941	.0840	.0482	.0360	.0257
60.000		.3107	.4044	.9453	.6796	.2794	.0413	-.0112	-.0639	-.0680	.1699	.3809	-.0514	-.0872	-.0918
90.000		.3600	.3795	.8771	.6279	.2365	.0050	-.0404	-.0875	-.0870	.4194	.3991	-.3038	-.1696	.0105
120.000		.3613	.3853	.7925	.5771	.1923	-.0242	-.0653	-.1104	-.1110	.0821	.2160	-.1535	-.1799	.0143
135.000			.3837	.7676	.5521	.1862	-.0313	-.0724	-.1159	-.1176	.0765	.0485	.0254	-.0084	-.0394
147.000		.3483	.3834	.7505	.5508	.1668	-.0391	-.0818	-.1227	-.1180	.0746	.1035	.1562	.1531	.0111
162.000			.3965	.7332	.5544	.1703	-.0494	-.0843	-.1263	-.1232	.0674	.0843	.1820	.0675	.0302
180.000	1.6628	.3435	.3880	.7079	.6035	.1458	-.0491	-.0804	-.1305	-.1262	.0697	.0940	.2222	.2630	.0454
198.000			.3890	.7181	.5186	.2026	-.0436	-.0852	-.1188	-.1278	.0533	.0804	.2092	.0072	.1894
213.000		.3386	.3949	.7155	.0000	.0335	-.1118	-.0552	-.1256	-.1258	-.0058	.1048	.1683	.1437	.1011
225.000			.4355	.7571	.6617	.2184	-.0368	-.0817	-.1091	-.1002	.0638	.0531	-.0126	.0325	.0140
240.000		.3590	.4119	.8062	.6058	.1952	-.0339	-.0652	-.1193	-.1087	.0938	.2186	-.1404	-.1762	.0554
270.000		.3636	.4145	.9012	.6178	.2197	-.0009	-.0468	-.0989	-.0880	.3443	.5474	-.2763	-.1668	.0156
300.000		.3237	.4352	.9562	.6735	.2826	.0241	-.0232	-.0791	-.0696	.1686	.3201	.0552	-.0769	-.1012
330.000		.2267	.5132	1.0004	.7176	.0000	.0513	.0052	-.0548	-.0515	.1826	.0000		.0338	.0238

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0060	-.0209	.0069	.0125	-.0002	-.1438
30.000	-.0232	-.0044	.0069	.0031	.0457	-.1458
60.000	.0448	.0509	.0063	.0008	.1585	-.1523
90.000	.0830	.0491	.0076	.0898	.3556	-.1595
120.000	-.0008	.0001	-.0203	.0963	.3332	-.1448
135.000	.0076	-.0434	-.0216	.2923	.3201	
147.000	-.0180	-.0550	.0358	.2703	.3063	-.1761
162.000	-.0665	-.0739	.0312	.2350	.2918	
180.000	-.0649	-.1115	.0041	.2224	.2697	-.1680
198.000	-.0335	-.1014	.0348	.2053	.2347	
213.000	-.1474	-.0534	.0196	.2114	.2067	.0000
225.000	-.0144	-.0258	-.0095	.2014	.2397	
240.000	.0289	-.0206	-.0182	.1344	.2868	-.1467
270.000	.0901	.0407	-.0082	.0978	.3667	-.1451
300.000	.0525	.0563	.0050	.0081	.1562	-.1461
330.000	.0000	-.0047	.0050	-.0005	.0581	-.1490

ARC97-015 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT40)

ALPHAT(4) = 3.498 BETAT (3) = 3.755

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1284	.1944	.2108	.2323	.2584	.2821	.3362	.3804	.4445	.4987
PHI															
.000	1.6762	.2329	.5261	1.0258	.6748	.3276	.0822	.0129	-.0429	-.0486	.1976	-.0254	.0563	.0825	.0472
30.000		.1590	.4805	.9174	.6707	.2858	.0192	-.0283	-.0787	-.0790	.1338	.0603	.0299	.0463	.0175
50.000		.2290	.3979	.8232	.5756	.1986	-.0208	-.0685	-.1158	-.1151	.1050	.1423	-.0058	-.0838	-.0580
90.000		.3130	.3722	.7340	.5278	.1559	-.0578	-.0967	-.1355	-.1026	.2940	.4630	-.2905	-.1747	.0211
120.000		.3260	.3803	.6586	.5096	.1313	-.0704	-.1042	-.1443	-.1434	.0374	.2070	-.1338	-.0997	-.0613
135.000			.3712	.6255	.5076	.1236	-.0672	-.1080	-.1438	-.1421	.0449	.0416	.1040	.0926	-.0238
147.000		.3256	.3715	.6261	.5138	.1313	-.0704	-.1025	-.1423	-.1434	.0361	.0738	.1589	.1673	-.0180
162.000			.3756	.6793	.5214	.1533	-.0659	-.1065	-.1384	-.1414	.0374	.0673	.1622	-.0152	.0253
180.000	1.6762	.3390	.3818	.7258	.6222	.1349	-.0445	-.0942	-.1317	-.1348	.0449	.0917	.2719	.3165	-.0093
198.000			.3749	.7947	.4926	.2037	-.0026	-.0922	-.1019	-.1088	.0635	.0959	.2295	.1010	.1612
213.000		.3608	.3811	.7731	.0000	.0266	-.1395	-.0402	-.1275	-.1352	.0155	.0767	.1667	.1402	.1399
225.000			.4589	.8748	.7589	.2626	-.0137	-.0463	-.0845	-.0845	.1073	.0429	-.0754	-.0735	.0731
240.000		.3849	.4385	.9353	.6964	.2748	.0118	-.0237	-.0855	-.0828	.1309	.2278	-.1437	-.1720	-.0170
270.000		.4034	.4549	1.0281	.7423	.3156	.0622	.0073	-.0562	-.0466	.4418	.6122	-.2599	-.1675	.0175
300.000		.4291	.4835	1.0786	.7905	.3736	.0898	.0367	-.0262	-.0255	.2335	.5072	.0398	-.0803	-.0939
330.000		.3959	.4976	1.0877	.7951	.0000	.0924	.0406	-.0246	-.0228	.2309	.0000		.0269	-.0104

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0120	-.0233	-.0080	.0012	-.0094	-.1408
30.000	-.0343	-.0285	-.0034	-.0147	.0410	-.1353
60.000	.0378	.0197	-.0174	.0005	.1588	-.1562
90.000	.0652	.0419	-.0372	.1440	.3637	-.1441
120.000	-.0378	-.0180	-.0171	.1837	.2293	-.1669
135.000	-.0524	-.0974	-.0008	.1915	.2629	
147.000	-.0782	-.0851	.0212	.2005	.2171	-.1575
162.000	-.0918	-.1218	-.0176	.2002	.2494	
180.000	-.0992	-.1117	-.1129	.1947	.3585	-.1672
198.000	-.1380	-.1334	.0008	.1372	.5494	
213.000	.0068	-.0187	.0273	.1556	.2997	.0000
225.000	.0423	.0118	-.0150	.1845	.3260	
240.000	.0529	.0238	.0441	.1292	.3695	-.1480
270.000	.1011	.0494	.0435	.0755	.3142	-.1470
300.000	.0481	.0462	.0354	.0219	.1308	-.1434
330.000	.0000	.0338	.0218	.0061	.0673	-.1438

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RET740)

ALPHAT(5) = 6.292 BETAT (1) = .032

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0001	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2523	.2574	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.8627	.1829	.6245	1.0720	.9481	.3725	.0945	.0411	-.0178	-.0170	.2484	.3091	.0687	.1432	.1058
30.000		.1638	.6307	1.0337	.7682	.3575	.0923	.0346	-.0269	-.0272	.2311	.0961	.0368	.0644	.0464
60.000		.2364	.4430	.9489	.6905	.2975	.0513	.0033	-.0527	-.0575	.1864	.3378	.0047	-.0427	-.0472
90.000		.3081	.3541	.8595	.6105	.2300	.0022	-.0431	-.0992	-.0858	.3963	.3905	-.3071	-.1959	.0032
120.000		.3460	.3528	.7504	.5357	.1687	-.0389	-.0784	-.1226	-.1236	.0537	.1430	-.1925	-.2189	-.0559
135.000			.3587	.7085	.5071	.1574	-.0512	-.0887	-.1283	-.1322	.0502	.0300	-.0190	-.0582	-.0401
147.000		.3477	.3593	.6823	.5003	.1400	-.0554	-.0962	-.1370	-.1342	.0488	.0839	.1290	.1449	-.0181
162.000			.3712	.6440	.5077	.1303	-.0690	-.1028	-.1399	-.1378	.0508	.0913	.1500	.0621	.0290
180.000	1.8627	.3550	.3682	.5949	.5351	.1145	-.0639	-.0992	-.1441	-.1424	.0508	.0813	.2157	.2189	.0157
198.000			.3679	.6188	.4268	.1678	-.0593	-.1083	-.1338	-.1417	.0332	.0674	.2069	.0159	.1578
213.000		.3327	.3725	.6122	.0000	.0048	-.1337	-.0779	-.1434	-.1431	-.0160	.0836	.1633	.1264	.0816
225.000			.4050	.7022	.6368	.1823	-.0599	-.0950	-.1236	-.1177	.0475	.0216	-.0611	-.0223	.0322
240.000		.3603	.3977	.7669	.5370	.1807	-.0473	-.0776	-.1276	-.1226	.0586	.1624	-.1843	-.1953	-.0475
270.000		.3370	.3860	.6739	.6046	.2010	-.0020	-.0443	-.0996	-.0957	.3133	.5394	-.2415	-.1969	.0093
300.000		.2520	.4564	.9545	.6915	.2968	.0417	-.0063	-.0664	-.0547	.1767	.3074	.1180	-.0007	-.0578
330.000		.1713	.5988	1.0456	.7661	.0000	.0799	.0283	-.0334	-.0284	.2177	.0000		.0629	.0545

X/LT	.5528	.6340	.7423	.8506	.9264	.9839
PHI						
.000	.0390	.0109	.0223	.0312	.0128	-.1374
30.000	.0422	.0103	.0205	.0157	.0256	-.1482
60.000	.0384	.0603	.0233	.0054	.2033	-.1417
90.000	.0813	.0569	.0029	.1556	.4430	-.1472
120.000	.0096	-.0036	-.0059	.1737	.3367	-.1404
135.000	.0025	-.0473	.0165	.3500	.3562	
147.000	-.0315	-.0483	.0696	.3130	.3513	-.1805
162.000	-.0730	-.0645	.0361	.2774	.3109	
180.000	-.0772	-.1107	.0393	.2690	.2705	-.1720
198.000	-.0413	-.1182	.0658	.2503	.2458	
213.000	-.1533	-.0496	.0474	.2487	.2415	.0000
225.000	-.0278	-.0266	.0144	.2494	.2744	
240.000	.0419	-.0013	-.0050	.1833	.2803	-.1433
270.000	.1071	.0657	-.0211	.1500	.4836	-.1427
300.000	.0426	.0751	.0199	.0060	.2089	-.1423
330.000	.0000	.0058	.0280	.0112	.0382	-.1423

ARC87-019 1A81 EVAP(ALLHL SEALED) EXTERNAL TANK (RETT41) (30 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.200 RN/FT = 2.500
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPOBRK = .000

ALPHAT(1) = -7.003 BETAT (1) = -.125

SECTION (1)EXTERNAL TANK DEPENDEN[illegible]E CP

X/LT	.0000	.0092	.0184	.0400	.0844		944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7075	.2699	.3203	.5793	.5549	.13[illegible]	.534	-.0880	-.1214	-.1275	.0217	-.0889	.0378	.0402	-.0095
30.000		.3010	.3137	.6720	.5013	.1460	-.0461	-.0820	-.1171	-.1197	.0277	-.0106	-.0491	-.0922	-.1110
60.000		.3097	.3083	.7549	.5388	.1835	-.0238	-.0640	-.1034	-.1082	.0455	.2158	-.2194	-.2446	-.1423
90.000		.3224	.2823	.8763	.6175	.2427	.0110	-.0316	-.0752	-.0764	.3619	.4290	-.2207	-.1520	-.0776
120.000		.3417	.2896	.9815	.7106	.3002	.0624	.0137	-.0380	-.0442	.1768	.2389	.1092	.0496	.0475
135.000			.3023	1.0385	.7461	.3321	.0824	.0310	-.0220	-.0239	.1872	.2054	.1588	.2795	.1253
147.000		.3745	.3133	1.0722	.7826	.3613	.0947	.0471	-.0064	-.0171	.2161	.1394	.2708	.3153	.1376
162.000			.3253	1.0918	.8472	.3922	.1157	.0590	-.0054	-.0026	.2349	.0073	.3133	.1799	.1249
180.000	1.7075	.4052	.3416	1.0931	.9055	.3487	.1041	.0740	-.0008	-.0002	.2407	.0126	.3230	.6617	.1903
198.000			.3499	1.0749	.8311	.4294	.0881	.0633	-.0101	-.0104	.2225	.1380	.2568	.1465	.2580
213.000		.3571	.4049	.890[illegible]	.0000	.1540	.0020	.0746	-.0147	-.0117	.1029	.1249	.2785	.2508	.2764
225.000			.4686	1.0300	.6995	.3537	.0947	.0132	-.0232	-.0151	.1617	.1923	.1355	.2617	.1316
240.000		.2886	.3333	.9724	.7635	.28[illegible]9	.0454	.0015	-.0517	-.0466	.1392	.1796	.1528	.1059	.0859
270.000		.2936	.2967	.8633	.6165	.2307	.0027	-.0410	-.0838	-.0838	.2218	.6465	-.1924	-.1047	-.0856
300.000		.2916	.3070	.7454	.5315	.1646	-.0346	-.0692	-.1122	-.1072	.0445	.1729	-.1376	-.2347	-.1694
330.000		.2752	.3200	.6369	.5028	.0000	-.0560	-.0878	-.1265	-.1221	.0247	.0000		-.0726	-.0873

X/LT	.9529	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0947	-.1130	-.0549	-.0141	-.0081	-.1425
30.000	-.1010	-.0420	-.0472	-.0305	-.0088	-.1509
60.000	-.1250	-.0643	-.0114	-.0228	.0840	-.1506
90.000	-.0090	-.0790	-.0506	-.0228	.5359	-.1516
120.000	.1054	.1074	.0090	.0222	.2775	-.1492
135.000	.0274	.0619	-.0030	.2075	.3033	
147.000	.0944	.0348	.0565	.1364	.2734	-.1708
162.000	.1147	.0344	.0336	.0293	.4818	
180.000	.0941	.0321	.0977	.1354	.4197	-.1775
198.000	.0030	.0324	.0469	.0860	.3934	
213.000	.0160	.0217	.0346	.0897	.0827	.0000
225.000	.0977	.0850	-.0158	.1037	.1636	
240.000	.1378	.0679	.0179	.0402	.1877	-.1617
270.000	-.0143	-.0747	-.0382	-.0295	.4146	-.1529
300.000	-.1497	-.0917	-.0135	-.0234	.0935	-.1538
330.000	.0000	-.0399	-.0576	-.0350	.0045	-.1573

ARC97-019 IAB1 LVAP(ALL HL SEALED) EXTERNAL TANK (RETT41)

ALPHAT(2) = -1.865 BETAT (1) = -4.538

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6954	.2107	.3232	.7097	.6348	.1569	-.0358	-.0738	-.1120	-.1147	.0384	-.0823	.0123	.0202	-.0236
30.000		.3142	.3146	.7942	.5371	.2035	-.0088	-.0487	-.0883	-.0906	.0771	.0124	.0220	-.1139	-.1245
60.000		.3336	.2874	.9298	.6335	.2720	.0391	-.0099	-.0596	-.0631	.1270	.3230	-.1800	-.2199	-.1212
90.000		.3446	.2904	1.0232	.7386	.3359	.0791	.0289	-.0232	-.0271	.5033	.5112	-.2245	-.1679	-.1259
120.000		.3603	.3202	1.0729	.7882	.3642	.1055	.0547	-.0031	-.0047	.2419	.4390	.0397	-.0185	.0350
135.000			.3229	1.0810	.7879	.3745	.1078	.0594	.0032	-.0054	.2301	.2089	.1273	.1990	.1536
147.000		.3684	.3225	1.0783	.7866	.3652	.1065	.0523	-.0055	-.0050	.2588	.1601	.2303	.3318	.1883
162.000			.3211	1.0550	.7634	.3476	.0844	.0429	-.0098	-.0179	.2233	.0607	.2697	.2627	.1250
180.000	1.6954	.3707	.3181	1.0114	.7594	.3250	.0664	.0169	-.0225	-.0325	.1944	.1086	.2644	.5838	.1003
198.000			.3261	.9613	.8349	.3326	.0316	.0075	-.0506	-.0512	.1593	.1203	.2341	.0659	.2103
213.000		.3637	.3491	.6897	.0000	.0677	-.0500	.0112	-.0649	-.0465	.0481	.0714	.2120	.1997	.1540
225.000			.3635	.8436	.5989	.2507	.0266	-.0465	-.0746	-.0638	.0933	.1213	.0880	.1873	.0470
240.000		.3078	.2877	.7906	.6332	.1822	-.0172	-.0526	-.0964	-.0950	.0774	.1109	.1136	.0707	.0221
270.000		.2649	.2950	.7117	.5187	.1542	-.0433	-.0753	-.1188	-.1157	.1394	.5981	-.2456	-.1562	-.1
300.000		.2432	.3084	.5868	.4838	.1443	-.0550	-.0863	-.1266	-.1253	.0336	.1082	-.0885	-.1952	-.1
330.000		.2264	.3184	.6352	.4804	.0000	-.0554	-.0876	-.1270	-.1203	.0262	.0000		-.0219	-.0344

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0754	-.0787	-.0634	-.0354	-.0195	-.1546
30.000	-.0514	-.0178	-.0590	-.0434	-.0579	-.1758
60.000	-.0341	-.0657	-.0480	-.0044	.1668	-.1586
90.000	-.0058	-.0427	-.0283	.0006	.6291	-.1549
120.000	.1319	.1232	.0426	.0733	.2879	-.1543
135.000	.0421	.0849	.0236	.2521	.3256	
147.000	.0754	.0714	.0724	.1404	.3850	-.2013
162.000	.0644	-.0192	.0570	.0330	.5909	
180.000	.0478	.0296	-.0241	.0056	.5128	-.2070
198.000	.0394	-.0109	.0019	.0366	.4381	
213.000	-.1226	-.0881	-.0411	.0363	.0121	.0000
225.000	.0394	.0279	-.0398	.0524	.1288	
240.000	.0933	.0125	-.0418	.0449	.0789	-.1469
270.000	-.0537	-.0955	-.0378	.0473	.4682	-.1536
300.000	-.0544	-.0975	-.0321	-.0199	.1715	-.1563
330.000	.0000	-.0804	-.0458	-.0236	-.0026	-.1650

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RET741)

ALPHAT(2) = -4.841 BETAT (2) = -.151

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2584	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7146	.2727	.3399	.7017	.7175	.1640	-.0362	-.0722	-.1102	-.1133	.0473	-.0844	.0370	.0523	.0056
30.000		.2964	.3312	.7385	.5479	.1773	-.0273	-.0672	-.1056	-.1078	.0588	.0097	-.0517	-.0450	-.0707
60.000		.3125	.3292	.7942	.5765	.2019	-.0093	-.0511	-.0939	-.0983	.0735	.2611	-.1910	-.2227	-.1463
90.000		.3219	.3189	.8705	.6335	.2495	.0133	-.0301	-.0746	-.0766	.3723	.4447	-.2473	-.1603	-.1280
120.000		.3396	.3296	.9586	.6943	.2791	.0467	.0023	-.0490	-.0563	.1586	.2512	.0547	-.0137	.0122
135.000			.3339	1.0254	.7131	.3011	.0650	.0123	-.0430	-.0444	.1603	.1719	.0825	.2596	.1081
147.000		.3594	.3383	1.0531	.7336	.3203	.0667	.0180	-.0314	-.0383	.1727	.1300	.2285	.3015	.1298
162.000			.3462	1.0625	.7477	.3426	.0764	.0285	-.0324	-.0298	.1912	-.0069	.2462	.1489	.1111
180.000	1.7146	.3714	.3552	1.0585	.8877	.3090	.0640	.0362	-.0290	-.0281	.1955	.0022	2796	.6238	.1658
198.000			.3619	1.0450	.8138	.3759	.0560	.0272	-.0314	-.0359	.1744	.1334	.2146	.1279	.2587
213.000		.3272	.4087	.9076	.0000	.1314	-.0198	.0472	-.0380	-.0390	.0746	.1374	.2402	.2316	.2330
225.000			.4819	1.0068	.7151	.3330	.0710	-.0081	-.0403	-.0339	.1505	.1756	.1203	.2344	.1188
240.000		.2857	.3612	.9474	.7856	.2545	.0360	-.0141	-.0624	-.0600	.1441	.1759	.0916	.0412	.0419
270.000		.2891	.3356	.8605	.6124	.2249	.0038	-.0374	-.0888	-.0804	.2413	.6549	-.2307	-.1756	-.1286
300.000		.2874	.3396	.7839	.5701	.1900	-.0201	-.0587	-.1058	-.1024	.0725	.2000	-.0987	-.2052	-.1629
330.000		.2717	.3416	.7171	.5509	.0000	-.0378	-.0716	-.1163	-.1096	.0494	.0000		-.0357	-.0556

X/LT	.3528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0643	-.0969	-.0420	-.0159	-.0067	-.1415
30.000	-.0909	-.0287	-.0487	-.0209	-.0104	-.1516
60.000	-.0413	-.0856	-.0109	-.0173	.1397	-.1499
90.000	-.0270	-.0828	-.0317	-.0073	.6147	-.1512
120.000	.0887	.0936	-.0073	.0187	.2932	-.1502
135.000	-.0317	.0399	-.0320	.2031	.2891	
147.000	.0687	.0034	.0265	.1312	.2586	-.1741
162.000	.0900	.0061	-.0020	.0513	.4354	
180.000	.0707	-.0013	.0536	.1272	.3745	-.1818
198.000	.0085	.0412	.0157	.0886	.3437	
213.000	-.0490	-.0140	.0134	.0879	.0936	.0000
225.000	.0375	.0599	-.0352	.0943	.1604	
240.000	.1139	.0589	-.0073	.0421	.1749	-.1512
270.000	-.0264	-.0804	-.0103	-.0104	.5040	-.1506
300.000	-.0696	-.1028	-.0159	-.0175	.1404	-.1519
330.000	.0000	-.0286	-.0559	-.0236	-.0090	-.1578

ARC97-019 IABI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT41)

ALPHAT(2) = -4.805 GETAT (3) = 3.571

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7061	.2568	.3186	.7082	.8051	.1507	-.0392	-.0761	-.1106	-.1147	.0450	-.0844	.0390	.0281	-.0256
30.000		.2705	.3103	.6150	.5081	.1478	-.0485	-.0855	-.1189	-.1225	.0309	.0087	-.0594	-.0198	-.0339
60.000		.2832	.3176	.6511	.4984	.1484	-.0479	-.0845	-.1189	-.1218	.0136	.1928	-.1813	-.2080	-.1201
90.000		.2949	.3113	.7143	.5219	.1703	-.0368	-.0728	-.1060	-.1056	.2742	.5033	-.2556	-.1467	-.0971
120.000		.3036	.2976	.7865	.5805	.1966	-.0064	-.0494	-.0903	-.0893	.1038	.1384	.0905	.0348	-.0276
135.000			.2932	.8591	.6070	.2334	.0053	-.0331	-.0737	-.0795	.1004	.1424	.1518	.2343	.0506
147.000		.3173	.2922	.9216	.6475	.2647	.0290	-.0154	-.0644	-.0642	.1250	.1203	.2365	.2916	.0363
162.000			.3005	.9770	.7367	.2949	.0470	.0005	-.0411	-.0537	.1475	.1086	.2263	.0278	.1048
180.000	1.7061	.3203	.3309	1.0094	.8319	.2952	.0881	.0297	-.0245	-.0337	.1791	.0956	.3139	.5531	.0735
198.000			.3878	1.0439	.7518	.3935	.1034	.0414	.0028	-.0123	.1905	.0701	.2746	.1427	.2907
213.000		.3076	.4066	1.0439	.0000	.1926	.0140	.0873	-.0019	-.0150	.1297	.1438	.2743	.3019	.2658
225.000			.5464	1.0662	.8185	.4146	.1191	.0454	.0097	.0107	.1740	.1853	.1261	.2345	.1826
240.000		.3310	.3785	1.0642	.8617	.3327	.1114	.0430	-.0089	-.0120	.2234	.2934	.0688	.0090	.0612
270.000		.3504	.3372	1.0189	.7323	.3188	.0697	.0237	-.0388	-.0317	.3874	.7097	-.2093	-.1929	-.1360
300.000		.3159	.3249	.9281	.6452	.2547	.0270	-.0145	-.0693	-.0662	.1250	.2683	-.1061	-.2069	-.1550
330.000		.2882	.3245	.7994	.5700	.0000	-.0151	-.0494	-.0967	-.0925	.0705	.0000		-.1068	-.1201

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0729	-.0928	-.0580	-.0283	-.0171	-.1525
30.000	-.0865	-.0666	-.0483	-.0184	-.0171	-.1592
60.000	-.0516	-.0812	-.0330	-.0264	.1629	-.1505
90.000	-.0506	-.1178	-.0493	-.0024	.5907	-.1454
120.000	.0607	.0505	-.0477	.0641	.0660	-.1353
135.000	.0062	-.0415	-.0293	.0971	.2079	
147.000	.0059	-.0143	.0125	.0951	.1483	-.1569
162.000	.0205	-.0423	.0269	.0548	.3063	
180.000	.0228	-.0183	-.0363	.0765	.4487	-.1656
198.000	-.0599	-.1041	.0705	.0725	.4783	
213.000	.0704	.0595	.0688	.0967	.2026	.0000
225.000	.0561	.0749	.0236	.1504	.2314	
240.000	.1299	.0873	.0442	.0883	.2270	-.1703
270.000	-.0131	-.0406	-.0037	.0277	.6285	-.1599
300.000	-.0393	-.0740	-.0443	.0016	.1551	-.1595
330.000	.0000	-.0239	-.0523	-.0391	-.0314	-.1710

ARC97-019 (A8) LVAP(ALLHL SEALED) EXTERNAL TANK (RETT41)

ALPHAT(3) = -.425 BETAT (1) = -6.718

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6938	.2162	.3554	.8525	.7401	.2246	.0059	-.0357	-.0788	-.0815	.0968	-.0588	.0079	.0312	-.0127
30.000		.3408	.3127	.9792	.6299	.2970	.0587	.0099	-.0419	-.0493	.1576	.0675	.0538	-.0633	-.0814
60.000		.3635	.3147	1.0497	.7612	.3557	.0965	.0439	-.0116	-.0127	.2184	.4910	-.0981	-.1371	-.0978
90.000		.3678	.3237	1.0827	.8004	.3802	.1136	.0572	.0037	.0015	.5523	.5842	-.2369	-.1588	.0006
120.000		.3598	.3177	1.0473	.7706	.3501	.0986	.0472	-.0103	-.0130	.2261	.3918	-.0492	-.0807	-.0848
135.000			.3040	1.0183	.7321	.3378	.0786	.0279	-.0236	-.0229	.1956	.1319	.0233	.0325	.1147
147.000		.3474	.2927	.9924	.7019	.3162	.0602	.0196	-.0316	-.0391	.1865	.0984	.1349	.2586	.1637
162.000			.2954	.9388	.6561	.2575	.0399	-.0076	-.0585	-.0574	.1408	.0582	.2269	.2259	.1323
180.000	1.6938	.3361	.3070	.8545	.6065	.2502	.0152	-.0336	-.0808	-.0774	.1038	.0970	.2562	.4777	.0596
198.000			.3310	.7797	.7214	.2210	-.0201	-.0492	-.0974	-.1004	.0719	.0766	.1915	.0412	.2131
213.000		.3154	.3386	.5812	.0000	.0212	-.0827	-.0465	-.1050	-.0933	-.0074	.0706	.1511	.1300	.0606
225.000			.3420	.7043	.5100	.1778	-.0281	-.0871	-.1113	-.1052	.0306	.0763	.0466	.1140	-.0197
240.000		.2903	.2967	.6611	.5629	.1287	-.0534	-.0887	-.1275	-.1241	.0430	.0994	.0175	-.0124	-.0514
270.000		.2633	.3054	.5465	.4611	.1194	-.0621	-.0941	-.1319	-.1313	.1946	.5333	-.2262	-.1735	-.0134
300.000		.2479	.2987	.6443	.4893	.1430	-.0594	-.0921	-.1302	-.1238	.0316	.0593	.0015	-.1228	.1111
330.000		.2106	.3054	.7425	.5230	.0000	-.0301	-.0661	-.1113	-.1095	.0417	.0000		-.0308	-.0121

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0537	-.0567	-.0404	-.0502	-.0445	-.1433
30.000	-.0431	.0049	-.0340	-.0339	.0255	-.1631
60.000	.0199	.0099	-.0297	-.0375	.1910	-.1507
90.000	.0059	-.0731	-.1022	-.0085	.7042	-.1500
120.000	.1631	.1124	.0636	.0951	.3618	-.1510
135.000	.0455	.0512	.0709	.3168	.3663	
147.000	.0648	.0315	.0810	.1681	.4478	-.1917
162.000	.0265	.0061	.0181	.0135	.6327	
180.000	.0229	-.0738	-.0235	.0491	.4925	-.1961
198.000	.0202	-.1403	-.0332	.0551	.4576	
213.000	-.1789	-.1183	-.0615	.0251	-.0543	.0000
225.000	-.0218	-.0394	-.0602	.0374	.1322	
240.000	.0349	-.0641	-.0665	.0408	.0788	-.1368
270.000	-.0993	-.0494	-.0672	.0258	.4415	-.1412
300.000	.0189	-.0213	-.0322	-.0027	.1594	-.1443
330.000	.0000	-.0538	-.0329	-.0377	-.0029	-.1449

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT41)

ALPHAT(3) = -.412 BETAT (2) = -4.555

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1744	.2108	.2323	.2594	.2825	.3362	.3904	.4448	.4987
PHI															
.000	1.6891	.2132	.3470	.8487	.7806	.2348	.0108	-.0308	-.0777	-.0803	.1068	-.0537	.0160	.0536	.0158
30.000		.3209	.3238	.9319	.8203	.2805	.0438	-.0031	-.0521	-.0548	.1492	.0544	.0171	-.0357	-.0670
60.000		.3484	.3233	1.0234	.8723	.3217	.0730	.0226	-.0305	-.0331	.1876	.4596	-.1098	-.1447	-.1039
90.000		.3557	.3206	1.0362	.7474	.3347	.0823	.0349	-.0198	-.0223	.5025	.5234	-.2383	-.1757	-.0128
120.000		.3561	.3189	1.0315	.7300	.3148	.0727	.0236	-.0278	-.0324	.1980	.3922	-.0526	-.0877	-.0996
135.000			.3176	1.0025	.7001	.3168	.0573	.0129	-.0351	-.0379	.1785	.1218	.0529	.0486	.0916
147.000		.3457	.3159	.9647	.6823	.2915	.0526	.0082	-.0451	-.0508	.1711	.1024	.1616	.2592	.1352
162.000			.3199	.9110	.6491	.2476	.0269	-.0155	-.0561	-.0626	.1378	.0850	.2153	.2226	.1052
180.000	1.6891	.3229	.3226	.8505	.6213	.2572	.0166	-.0318	-.0701	-.0752	.1149	.1134	.2139	.4851	.0703
198.000			.3249	.7998	.7149	.2496	-.0108	-.0381	-.0850	-.0908	.0914	.1134	.1926	.0706	.2206
213.000		.2978	.3408	.6394	.0000	.0517	-.0723	-.0281	-.0894	-.0874	.0035	.0592	.1666	.1656	.1498
225.000			.3782	.7585	.5753	.2150	-.0081	-.0694	-.0956	-.0908	.0644	.1235	.0649	.1541	.0394
240.000		.2674	.3302	.7218	.6086	.1551	-.0308	-.0717	-.1115	-.1071	.0591	.1084	.0076	-.0401	-.0484
270.000		.2704	.3222	.6511	.5260	.1468	-.0419	-.0747	-.1149	-.1163	.1910	.6147	-.2213	-.1758	-.0205
300.000		.2624	.3492	.7159	.5307	.1728	-.0379	-.0724	-.1132	-.1095	.0611	.1074	.0016	-.1245	-.1282
330.000		.2205	.3466	.7799	.5613	.0000	-.0178	-.0541	-.1007	-.0964	.0685	.0000		-.0058	-.0003

X/LT	.5520	.6340	.7423	.3506	.9264	.9838
PHI						
.000	-.0382	-.0551	-.0342	-.0318	-.0275	-.1438
30.000	-.0538	.0074	-.0218	-.0231	.0363	-.1481
60.000	.0117	.0040	-.0161	-.0175	.1357	-.1414
90.000	-.0275	-.0929	-.0736	-.0151	.6609	-.1434
120.000	.1091	.0723	.0309	.0571	.3370	-.1455
135.000	.0217	.0203	.0146	.2814	.3542	
147.000	.0240	.0183	.0456	.1373	.3071	-.1582
162.000	.0193	-.0439	.0158	.0837	.5762	
180.000	.0144	-.0235	-.0561	.0388	.4746	-.1727
198.000	.0130	-.0692	-.0474	.0494	.4334	
213.000	-.1588	-.1180	-.0607	.0481	.0092	.0000
225.000	-.0202	-.0091	-.0587	.0577	.1601	
240.000	.0483	-.0181	-.0584	.0597	.1045	-.1361
270.000	-.0737	-.1300	-.0621	.0353	.4488	-.1404
300.000	.0230	-.0021	-.0371	-.0207	.1822	-.1434
330.000	.0000	-.0479	-.0318	-.0285	.0006	-.1445

ARC87-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT41)

ALPHAT(3) = -.404 BETAT (3) = -.184

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1204	.1944	.2108	.2323	.2594	.2821	.3332	.3904	.4445	.4987
PHI															
.000	1.7046	.2651	.3698	.8843	.8898	.2399	.0140	-.0276	-.0724	-.0749	.1220	-.0518	.0182	.0786	.0413
30.000		.3077	.3633	.8843	.6455	.2489	.0193	-.0240	-.0678	-.0722	.1193	.0339	-.0105	-.0048	-.0105
60.000		.3327	.3577	.8910	.6478	.2466	.0220	-.0243	-.0704	-.0725	.1250	.2975	-.1100	-.1447	-.1329
90.000		.3413	.3543	.8927	.6531	.2469	.0216	-.0233	-.0688	-.0708	.3826	.4921	-.2328	-.1999	-.0354
120.000		.3490	.3567	.8839	.6511	.2552	.0189	-.0243	-.0678	-.0708	.1334	.2795	-.0422	-.1099	-.0539
135.000			.3550	.8910	.6418	.2525	.0228	-.0206	-.0681	-.0746	.1227	.1013	.0405	.1301	.0512
147.000		.3403	.3527	.9008	.6498	.2446	.0219	-.0263	-.0698	-.0708	.1250	.1113	.1774	.2570	.1100
162.000			.3601	.8971	.6468	.2545	.0176	-.0181	-.0698	-.0729	.1214	.0939	.1942	.1035	.0841
180.000	1.7046	.3287	.3628	.8903	.6892	.2340	.0053	-.0181	-.0675	-.0708	.1260	.0906	.2119	.5149	.1478
198.000			.3744	.8856	.7627	.2890	.0070	-.0191	-.0651	-.0732	.0902	.0816	.1776	.1012	.2596
213.000		.2987	.3897	.8439	.0000	.0905	-.0489	.0001	-.0671	-.0732	.0309	.1086	.1770	.2251	.1783
225.000			.4494	.8846	.7176	.2797	.0256	-.0376	-.0641	-.0590	.0812	.1173	.0902	.1813	.0997
240.000		.3064	.3860	.8879	.6992	.2227	.0136	-.0327	-.0830	-.0756	.1210	.1800	-.0055	-.0728	-.0433
270.000		.3287	.3824	.8929	.6334	.2181	.0046	-.0357	-.0796	-.0790	.2701	.6726	-.2345	-.1661	-.0390
300.000		.3347	.3837	.8832	.6311	.2446	.0070	-.0307	-.0793	-.0779	.1163	.1964	-.0118	-.1286	-.1289
330.000		.3090	.3853	.8866	.6366	.0000	.0123	-.0264	-.0776	-.0752	.1103	.0000		-.0062	-.0024

X/LT	.5520	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0150	-.0531	-.0179	-.0109	-.0088	-.1378
30.000	-.0412	-.0140	-.0212	-.0092	-.0071	-.1482
60.000	.0092	.0036	-.0162	-.0132	.1786	-.1388
90.000	-.0472	-.1210	-.0704	-.0268	.6759	-.1388
120.000	.0397	.0440	-.0235	.0289	.3338	-.1485
135.000	-.0358	-.0042	-.0418	.2534	.2820	
147.000	.0281	-.0378	-.0185	.1585	.2425	-.1747
162.000	.0334	-.0308	-.0315	.1768	.3588	
180.000	.0211	-.0571	-.0049	.1513	.2969	-.1787
198.000	.0138	.0370	-.0235	.1141	.2553	
213.000	-.1194	-.0601	-.0102	.1197	.1299	.0000
225.000	-.0187	.0187	-.0494	.1035	.1721	
240.000	.0778	.0254	-.0265	.0562	.1792	-.1519
270.000	-.0392	-.1047	-.0414	-.0074	.5352	-.1432
300.000	.0191	.0107	-.0205	-.0138	.1799	-.1435
330.000	.0000	-.0149	-.0245	-.0159	.0224	-.1509

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETTY1)

ALPHAT(3) = -.378 BETAT (4) = 3.544

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7106	.2069	.3825	.8668	.9666	.2336	.0089	-.0319	-.0751	-.0778	.1116	-.0556	.0395	.0551	.0181
30.000		.2203	.3705	.7963	.5828	.2027	-.0087	-.0499	-.0927	-.0967	.0794	.0307	-.0152	-.0018	.0049
60.000		.2894	.3482	.7390	.5463	.1815	-.0266	-.0656	-.1040	-.1035	.0773	.1589	-.0983	-.1378	-.1403
90.000		.3154	.3465	.7104	.5396	.1716	-.0319	-.0709	-.1084	-.1069	.2952	.5894	-.2305	-.1664	-.0267
120.000		.3108	.3415	.7289	.5516	.1742	-.0283	-.0626	-.1034	-.1076	.0827	.1827	-.0179	-.0828	-.0656
135.000			.3375	.7647	.5543	.1762	- 0229	-.0632	-.1011	-.1001	.0669	.0976	.0358	.1927	.0171
147.000		.3058	.3345	.7963	.5691	.1968	-.0189	-.0539	-.0941	-.0984	.0720	.1059	.1626	.2490	.0132
162.000			.3377	.8247	.5845	.2270	-.0013	-.0489	-.0844	-.0900	.0881	.0836	.1877	.0038	.0789
180.000	1.7108	.2861	.3450	.8574	.7318	.2027	.0240	-.0266	-.0731	-.0781	.1042	.0836	.2726	.5076	.0437
198.000			.3606	.9140	.6786	.3016	.0490	-.0197	-.0436	-.0622	.1243	.0468	.2350	.1284	.2517
213.000		.2957	.3646	.9295	.0000	.1171	-.0379	.0288	-.0516	-.0595	.0790	.1062	.2100	.2393	.2005
225.000			.4643	.9944	.8554	.3385	.0510	.0102	-.0277	-.0304	.1512	.1109	.0328	.1062	.1052
240.000		.3365	.3739	1.0335	.7841	.3026	.0666	.0275	-.0426	-.0368	.1817	.2891	-.0348	-.0852	-.0573
270.000		.3425	.3749	1.0554	.7375	.3096	.0689	.0209	-.0321	-.0324	.3852	.7218	-.2427	-.1825	-.0260
300.000		.3278	.3753	1.0276	.7194	.3119	.0573	0162	-.0388	-.0405	.1787	.3422	-.0285	-.1320	-.1148
330.000		.2944	.3709	.9626	.6761	.0000	.0370	-.0060	-.0595	-.0559	.1398	.0000		-.0270	-.0657

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0350	-.0594	-.0352	-.0271	-.0269	-.1507
30.000	-.0498	-.0499	-.0346	.0178	-.0140	-.1487
60.000	.0086	-.0050	-.0326	-.0241	.1869	-.1466
90.000	-.0867	-.1203	-.0783	-.0022	.6147	-.1419
120.000	.0030	-.0019	-.0789	.0745	.0961	-.1333
135.000	-.0594	-.0805	-.0749	.1020	.2140	
147.000	-.0173	-.0699	-.0559	.1074	.1425	-.1597
162.000	-.0017	-.0662	-.0324	.1040	.2141	
180.000	-.0077	-.0519	-.0696	.0798	.4076	-.1728
198.000	-.0820	-.1126	.0356	.0582	.4805	
213.000	- 0143	.0114	.0502	.0957	.1937	.0000
225.000	.0222	.0254	.0243	.1252	.2252	
240.000	.1045	.0465	.0333	.0822	.2133	-.1701
270.000	-.0299	-.0919	-.0361	.0070	.6776	-.1520
300.000	.0069	-.0026	-.0165	.0033	.1598	-.1507
330.000	.0000	.0078	-.0128	-.0255	.0433	-.1591

ARC87-019 IAB1 LVAP(ALLML SEALED) EXTERNAL TANK (RETT41)

ALPHAT(3) = -.371 BETAT (5) = 6.329

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2105	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7079	.1940	.3695	.8798	.9919	.2336	.0075	-.0347	-.0788	-.0788	.1029	-.0649	.0296	.0316	-.0088
30.000		.2124	.3398	.7532	.5542	.1821	-.0204	-.0614	-.1031	-.1073	.0532	.0303	-.0307	-.0164	-.0111
60.000		.2659	.3257	.6706	.5016	.1508	-.0467	-.0844	-.1188	-.1198	.0511	.0569	-.0940	-.1350	-.0877
90.000		.2866	.3230	.5983	.4858	.1422	-.0564	-.0901	-.1221	-.1239	.2849	.6296	-.2383	-.1087	-.0434
120.000		.2983	.3217	.6564	.5073	.1402	-.0483	-.0837	-.1201	-.1212	.0559	.1243	-.0072	-.0470	-.0717
135.000			.3150	.7117	.4982	.1468	-.0443	-.0804	-.1121	-.1151	.0414	.0878	.0758	.1579	-.0314
147.000		.2853	.3097	.7448	.5264	.1788	-.0283	-.0647	-.1085	-.1083	.0495	.0875	.1649	.2123	.0169
162.000			.3097	.7930	.5649	.2000	-.0180	-.0526	-.0888	-.0981	.0548	.0644	.1673	-.0134	.0322
180.000	1.7079	.2779	.3150	.8632	.7317	.2120	.0207	-.0339	-.0705	-.0809	.1019	.0902	.2506	.4131	.0462
198.000			.3316	.9530	.5985	.2931	.0685	-.0240	-.0343	-.0517	.1258	.0835	.2193	.1119	.3726
213.000		.3187	.3293	.9216	.0000	.1089	-.0604	.0349	-.0569	-.0683	.0982	.1113	.2033	.2033	.2400
225.000			.4593	1.0090	.8829	.3640	.0575	.0293	-.0168	-.0191	.1823	.1190	.0180	.0702	.1444
240.000		.3899	.3829	1.0520	.8537	.3430	.0845	.0416	-.0269	-.0174	.2123	.3380	-.0290	-.0747	-.0607
270.000		.3959	.3862	1.0942	.7957	.3550	.0958	.0426	-.0124	-.0103	.4419	.7504	-.2383	-.1753	-.0078
300.000		.3735	.3829	1.0604	.7649	.3547	.0865	.0386	-.0232	-.0242	.2062	.3999	-.0270	-.1293	-.1027
330.000		.3331	.3596	.9899	.6971	.0000	.0518	.0087	-.0483	-.0494	.1504	.0000		-.0457	-.0824

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0481	-.0594	-.0444	-.0469	-.0474	-.1482
30.000	-.0611	-.0541	-.0374	-.0292	-.0056	-.1529
60.000	.0035	-.0175	-.0464	-.0292	.1709	-.1475
90.000	-.1114	-.0605	-.0782	-.0069	.6333	-.1441
120.000	.0091	-.0344	-.0725	.0647	.1247	-.1354
135.000	-.0318	-.0975	-.0892	.0687	.1865	
147.000	-.0671	-.0902	- 0595	.0817	.1783	-.1468
162.000	-.0711	-.1146	-.1232	.1067	.2435	
180.000	-.0744	-.0605	- 0908	-.0349	.3735	-.1646
198.000	-.1174	-.1877	.0348	-.0292	.6678	
213.000	.0541	.0090	.0534	.0964	.2381	.0000
225.000	.0634	.0521	.0281	.1794	.2720	
240.000	.1260	.0812	.0487	.0853	.3538	-.1980
270.000	-.0045	-.0762	-.0998	.0100	.6658	-.1569
300.000	.0111	-.0037	-.0292	-.0219	.1885	-.1542
330.000	.0000	-.0023	-.0265	-.0321	.0323	-.1727

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT41)

ALPHAT(4) = 3.378 BETAT (1) = -4.544

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6892	.2147	.3983	1.0077	.9004	.3214	.0676	.0220	-.0311	-.0339	.1838	-.0128	.0295	.0826	.0532
30.000		.3478	.3602	1.0620	.7438	.3660	.1005	.0510	-.0044	-.0108	.2258	.0719	.0703	.0327	.0001
60.000		.3779	.3304	1.0681	.7797	.3690	.1045	.0533	-.0018	-.0064	.2316	.4575	-.0085	-.0551	-.0759
90.000		.3592	.3020	1.0256	.7391	.3327	.0771	.0320	-.0201	-.0244	.4642	.5809	-.2373	-.1742	-.0251
120.000		.3381	.2913	.9263	.6586	.2662	.0400	-.0058	-.0524	-.0597	.1354	.2456	-.1151	-.1692	-.0955
135.000			.2970	.8552	.6106	.2409	.0170	-.0301	-.0760	-.0770	.1082	.0506	-.0383	-.0651	.0207
147.000		.3257	.3050	.8105	.5804	.2259	-.0068	-.0428	-.0840	-.0868	.1008	.0603	.0836	.2023	.0835
162.000			.3150	.7565	.5415	.1730	-.0178	-.0604	-.0996	-.1007	.0668	.0836	.1494	.1900	.0788
180.000	1.6892	.3090	.3186	.7065	.5096	.1677	-.0348	-.0723	-.1083	-.1116	.0473	.0766	.2299	.3993	.0625
198.000			.3126	.6589	.6317	.1807	-.0535	-.0777	-.1133	-.1184	.0359	.0562	.1647	.0477	.2229
213.000		.2876	.3236	.5094	.0000	.0193	-.1029	-.0647	-.1183	-.1228	-.0317	.0492	.1548	.1588	.1173
225.000			.3440	.5804	.4811	.1760	-.0421	-.0916	-.1133	-.1109	.0003	.0766	.0403	.1206	-.0079
240.000		.2712	.3170	.5737	.5254	.1354	-.0512	-.0877	-.1265	-.1231	.0389	.1317	-.0821	-.1291	-.0969
270.000		.2318	.3216	.6938	.5100	.1474	-.0415	-.0763	-.1184	-.1150	.1542	.5946	-.2434	-.1682	-.0241
300.000		.1736	.3470	.7552	.5529	.1996	-.0148	-.0500	-.0980	-.0967	.0746	.0816	.1185	-.0460	-.0686
330.000		.1251	.4010	.9058	.6345	.0000	.0246	-.0171	-.0678	-.0633	.1213	.0000		.0526	.0398

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0136	-.0093	-.0127	-.0018	-.0085	-.1273
30.000	-.0106	.0093	.0246	.0138	.0579	-.1247
60.000	.0156	.0561	.0332	.0201	.1462	-.1210
90.000	.1128	.0595	.0242	.0131	.4591	-.1300
120.000	.3899	.0532	.0469	.0762	.4705	-.1280
135.000	.0189	.0013	.0212	.3182	.4267	
147.000	.0442	.0062	.0259	.1733	.4330	-.1428
162.000	.0017	-.0374	.0011	.1746	.6185	
180.000	-.0159	-.0590	-.0633	.1543	.5560	-.1448
198.000	-.0026	-.0830	-.0155	.1005	.4474	
213.000	-.1633	-.1293	-.0188	.0982	.0557	.0000
225.000	-.0279	-.0197	-.0148	.1174	.1956	
240.000	.0040	-.0207	-.0444	.1164	.1651	-.1297
270.000	.1125	.0442	-.0444	.0924	.3401	-.1334
300.000	-.0103	.0429	-.0158	-.0267	.1293	-.1320
330.000	.0000	-.0404	-.0032	-.0179	.0146	-.1294

ARC37-019 1A01 LVAP(ALLML SEALED) EXTERNAL TANK (RETT41)

ALPHA(4) = 3.390 BETAT (2) = -.185

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7097	.1725	.4481	1.0442	1.0243	.3318	.0722	.0238	-.0291	-.0332	.1933	-.0124	.0201	.1065	.0823
30.000		.1681	.6484	1.0250	.7479	.3264	.0665	.0204	-.0314	-.0345	.1832	.0327	.0575	.0294	.0301
60.000		.2601	.3698	.9659	.6874	.2902	.0486	-.0003	-.0507	-.0531	.1513	.2108	-.0004	-.0584	-.0870
90.000		.3196	.3357	.8732	.6372	.2440	.0141	-.0297	-.0716	-.0731	.3378	.4950	-.2407	-.1635	-.0567
120.000		.3273	.3444	.8013	.5860	.1991	-.0110	-.0530	-.0936	-.0959	.0838	.2205	-.1209	-.1886	-.0471
135.000			.3461	.7798	.5622	.1958	-.0236	-.0584	-.0969	-.1009	.0730	.0418	.0261	-.0237	-.0258
147.000		.3183	.3451	.7659	.5579	.1799	-.0230	-.0630	-.1039	-.1067	.0676	.0776	.1379	.1716	.0420
162.000			.3506	.7423	.5455	.1619	-.0370	-.0670	-.1062	-.1114	.0596	.0716	.1616	.1339	.0603
180.000	1.7097	.3140	.3580	.7217	.5980	.1602	-.0407	-.0663	-.1076	-.1121	.0545	.0682	.1743	.3375	.1259
198.000			.3543	.7177	.5549	.2071	-.0407	-.0653	-.1062	-.1142	.0424	.0656	.1516	.0581	.2549
213.000		.3099	.3606	.7113	.0000	.0479	-.0851	-.0467	-.1056	-.1087	-.0147	.0833	.1496	.1666	.1179
225.000			.3959	.7510	.6820	.2068	-.0277	-.0690	-.0952	-.0901	.0424	.0622	.0107	.0440	.0484
240.000		.3207	.3676	.7914	.5783	.2025	-.0270	-.0570	-.1043	-.1006	.0801	.1774	-.1011	-.1632	-.0265
270.000		.3099	.3683	.8654	.6178	.2187	.0037	-.0367	-.0874	-.0833	.2400	.6629	-.2173	-.1808	-.0747
300.000		.2300	.4023	.9410	.6690	.2716	.0321	-.0101	-.0640	-.0647	.1345	.1814	.1028	-.0481	-.0810
330.000		.1627	.5157	1.0e57	.7201	.0000	.0591	.0142	-.0413	-.0406	.1708	.0000		.0297	.0193

X/LT	.3528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0253	-.0033	-.0075	.0178	.0046	-.1355
30.000	.0000	-.0157	.0122	.0101	.0093	-.1396
60.000	-.0276	.0565	.0202	-.0005	.1492	-.1399
90.000	.0975	.0603	.0092	.0085	.3973	-.1473
120.000	.0070	.0199	-.0065	.0591	.3192	-.1382
135.000	.0103	-.0189	-.0216	.2178	.3393	
147.000	-.0027	-.0413	-.0012	.2115	.3318	-.1675
162.000	-.0236	-.0547	.0171	.1965	.3498	
180.000	-.0152	-.0911	.0234	.1842	.2456	-.1668
198.000	.0090	.0159	-.0056	.1716	.2093	
213.000	-.1461	-.0784	.0015	.1750	.1685	.0000
225.000	-.0117	-.0059	-.0341	.1583	.2021	
240.000	.0293	.0058	-.0182	.0966	.2592	-.1460
270.000	.1204	.0580	-.0105	.0769	.3902	-.1398
300.000	-.0286	.0857	.0148	-.0124	.1549	-.1372
330.000	.0000	-.0179	.0108	.0008	.0118	-.1433

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT41)

ALPHAT(4) = 3.410 BETAT (3) = 3.545

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.600	1.7097	.2208	.4313	1.0265	1.0754	.3271	.0710	.0235	-.0299	-.0331	.1907	-.0163	.0308	.0842	.0600
30.000		.1115	.4560	.9190	.6988	.2723	.0361	-.0099	-.0585	-.0638	.1304	.0221	.0465	.0536	.0361
60.000		.1533	.3595	.7864	.5701	.2079	-.0027	-.0459	-.0897	-.0914	.0985	.1032	.0612	-.0529	-.0765
90.000		.2438	.3187	.7190	.5172	.1624	-.0373	-.0740	-.1077	-.1056	.2475	.5314	-.2310	-.1362	-.0038
120.000		.2759	.3274	.6417	.4387	.1378	-.0573	-.0886	-.1197	-.1212	.0399	.1811	-.0977	-.1592	-.0546
135.000			.3244	.6077	.4860	.1378	-.0486	-.0856	-.1243	-.1250	.0399	.0702	.0639	.1032	-.0367
147.000		.2838	.3244	.6185	.4984	.1258	-.0559	-.0900	-.1220	-.1258	.0312	.0656	.1407	.1948	.0082
162.000			.3323	.6884	.5018	.1557	-.0479	-.0884	-.1193	-.1212	.0281	.0592	.1448	.0433	.0710
180.000	1.7097	.2838	.3298	.7109	.6070	.1325	-.0303	-.0731	-.1120	-.1181	.0393	.0783	.2291	.3935	.0944
198.000			.3220	.7719	.5054	.2089	.0011	-.0724	-.0834	-.0958	.0608	.0829	.1918	.1312	.2132
213.000		.3083	.3260	.7567	.0000	.0388	-.1107	-.0302	-.1010	-.1080	.0160	.0545	.1445	.1372	.1666
225.000			.4006	.8479	.7618	.2427	.0011	-.0322	-.0660	-.0738	.0985	.0502	-.0466	-.0490	.0431
240.000		.3274	.3709	.9313	.6442	.2819	.0285	-.0126	-.0660	-.0673	.1267	.2309	-.0999	-.1622	-.0885
270.000		.3508	.3762	1.0211	.7296	.3138	.0752	.0254	-.0352	-.0368	.3619	.7261	-.2038	-.1875	-.0499
300.000		.3805	.3915	1.0717	.7792	.3590	.0949	.0446	-.0131	-.0141	.2209	.3164	.0856	-.0529	-.0782
330.000		.3528	.4256	1.0761	.7869	.0000	.0976	.0480	-.0135	-.0126	.2186	.0000		.0401	.0064

X/LT	.8528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0190	-.0095	-.0154	.0084	-.0084	-.1311
30.000	-.0118	-.0351	-.0074	-.0099	.0140	-.1260
60.000	.0038	.0410	-.0100	-.0268	.1194	-.1569
90.000	.0844	.0740	-.0247	.1084	.3837	-.1472
120.000	-.0088	-.0120	-.0577	.1357	.1899	-.1475
135.000	-.0132	-.0864	-.0534	.1560	.2305	
147.000	-.0460	-.0848	-.0040	.1596	.1821	-.1445
162.000	-.0434	-.0951	-.0188	.1473	.2163	
180.000	-.0420	-.0754	-.0893	.1327	.3830	-.1579
198.000	-.0822	-.1051	.0171	.1118	.5318	
213.000	-.0278	-.0124	.0400	.1294	.2427	.0000
225.000	.0642	-.0010	.0074	.1838	.2770	
240.000	.0788	.0226	.0367	.0784	.3617	-.1441
270.000	.1017	.0633	.0257	.0533	.3291	-.1347
300.000	-.0135	.0507	.0400	.0255	.1312	-.1341
330.000	.0000	-.0050	.0250	.0103	.0488	-.1358

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT41)

ALPHAT(5) = 6.193 BETAT (1) = -.159

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1284	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7140	.1599	.5529	1.1065	1.0544	.3819	.1038	.0548	-.0025	-.0073	.2373	.0115	.0363	.1245	.1082
30.000		.1506	.5800	1.0589	.8022	.3706	.0939	.0454	-.0088	-.0131	.2195	.0397	.0954	.0702	.0493
60.000		.1863	.4584	.9757	.7054	.3073	.0633	.0124	-.0404	-.0432	.1647	.2033	.0603	-.0217	-.0361
90.000		.2756	.3080	.8703	.6206	.2429	.0121	-.0302	-.0740	-.0753	.3199	.4767	-.2461	-.1482	-.1635
120.000		.3160	.3163	.7550	.5443	.1758	-.0225	-.0625	-.1023	-.1044	.0508	.1659	-.1566	-.2091	-.0920
135.000			.3277	.7193	.5114	.1665	-.0379	-.0732	-.1099	-.1118	.0410	.0216	-.0075	-.0656	-.0418
147.000		.3187	.3310	.6924	.5067	.1516	-.0425	-.0772	-.1156	-.1183	.0384	.0687	.1162	.1422	.0164
162.000			.3387	.6546	.4944	.1334	-.0542	-.0850	-.1215	-.1220	.0337	.0557	.1232	.1169	.0533
180.000	1.7140	.3053	.3420	.6014	.5389	.1287	-.0548	-.0823	-.1219	-.1247	.0323	.0603	.1658	.2837	.0956
198.000			.3394	.6075	.4501	.1792	-.0548	-.0856	-.1189	-.1260	.0212	.0517	.1571	.0286	.2163
213.000		.3020	.3463	.6115	.0000	.0262	.1035	-.0650	-.1202	-.1210	-.0258	.0664	.1288	.1335	.0992
225.000			.3743	.6863	.6478	.1709	-.0502	-.0806	-.1057	-.1040	.0323	.0293	-.0380	-.0195	.0028
240.000		.3177	.3630	.7486	.5265	.1821	-.0335	-.0667	-.1112	-.1081	.0508	.1516	-.1395	-.2008	-.0647
270.000		.2535	.3593	.8604	.6035	.2250	-.0035	-.0404	-.0834	-.0634	.2134	.6455	-.1868	-.1831	-.1529
300.000		.1565	.4855	.9542	.6916	.2920	.0481	.0032	-.0513	-.0526	.1482	.1907	.1618	-.0079	-.0445
330.000		.1406	.5249	1.0534	.7645	.0000	.0871	.0404	-.0191	-.0201	.2020	.0000		.0596	.0557

X/LT	.5528	.6340	.7423	.8506	.9264	.9638
PHI						
.000	.0534	.0258	.0064	.0339	0221	-.1328
30.000	.0228	.0078	.0261	.0266	.0140	-.1395
60.000	-.0085	.0514	.0407	.0133	.2019	-.1284
90.000	.0514	.0758	.0077	.0153	.5748	-.1274
120.000	-.0008	.0101	-.0006	.1157	.3024	-.1338
135.000	.0038	-.0209	-.0153	.2533	.3637	
147.000	-.0095	-.0440	.0101	.2579	.3570	-.1788
162.000	-.0411	-.0506	.0538	.2240	.3536	
180.000	-.0311	-.0940	.0362	.2194	.2452	-.1758
198.000	-.0038	-.0099	.0198	.2034	.2068	
213.000	-.1548	-.0760	.0233	.2014	.1938	.0000
225.000	-.0228	-.0173	-.0066	.1921	.2246	
240.000	.0613	.0091	-.0093	.1409	.2584	-.1371
270.000	.1142	.0858	-.0100	.1369	.4858	-.1345
300.000	-.0055	.0768	.0312	-.0023	.1866	-.1351
330.000	.0000	.0067	.0319	.0157	.0147	-.1388

ARC97-019 IA81 LVAP(ALLML SEALED) EXTERNAL TANK (RETT42) (30 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.500 RN/FT = 2.500
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPOBRK = .000

ALPHAT(1) = -6.879 BETAT (1) = .241

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7480	.2251	.2721	.5595	.6544	.1365	.0370	-.0699	-.0986	-.1056	.0209	-.0793	.0205	.0460	.0114
30.000		.2395	.2653	.6476	.4687	.1376	-.0310	-.0670	-.0964	-.1027	.0158	-.0112	-.0561	-.0492	-.0587
60.000		.2459	.2534	.7120	.5111	.1717	-.0132	-.0570	-.0843	-.0903	.0362	.1697	-.1513	-.1852	-.1513
90.000		.2599	.2344	.8164	.5836	.2262	.0159	-.0216	-.0586	-.0656	.2454	.5321	-.1624	-.1145	-.1082
120.000		.2719	.2420	.9475	.6784	.2859	.0510	.0188	-.0255	-.0373	.1409	.1636	.1507	.0371	.0713
135.000			.2552	1.0172	.7156	.3218	.0835	.0367	-.0123	-.0173	.1647	.1765	.110	.2841	.1674
147.000		.3014	.2663	1.0519	.7531	.3435	.0931	.0460	0023	-.0053	.1957	.0580	.2226	.2872	.1791
162.000			.2850	1.0779	.7761	.3691	.1114	.0676	.0087	.0060	.2166	.0158	.2427	.1420	.1970
80.000	1.7480	.3244	.3078	1.0808	.6953	.3663	.1064	.0797	.0198	.0100	.2231	.0205	.2751	.6756	.2148
138.000			.3356	1.0685	.8695	.4239	.0999	.0761	.0155	.0085	.2227	.0391	.2163	.1481	.2888
213.000		.2756	.4045	.9067	.0000	.1884	.0331	.0904	.0134	.0071	.1074	.1350	.2320	.2473	.2853
225.000			.4925	1.0336	.7352	.3869	.1146	.0383	.0063	.0063	.1694	.1700	.1021	.2683	.1853
240.000		.2240	.3189	.9916	.8231	.2887	.0763	.0251	-.0224	-.0246	.1514	.1600	.1692	.0898	.0937
270.000		.2287	.2465	.8530	.6077	.2379	.0267	-.0098	-.0591	-.0594	.1524	.7915	-.1349	-.1342	-.0890
300.000		.2301	.2558	.7431	.5237	.1852	-.0087	-.0405	-.0838	-.0849	.0461	.1367	-.0874	-.1801	-.1623
330.000		.2255	.2708	.6951	.6822	.0000	-.0334	-.0626	-.1001	-.0977	.0220	.0000		-.0630	-.0728

X/LT	.5528	.6340	.7423	.8596	.9264	.9836
PHI						
.000	-.0500	-.0738	-.0505	-.0312	-.0143	-.1164
30.000	-.0806	-.0237	-.0623	-.0234	-.0226	-.1246
60.000	-.1225	-.0717	-.0301	-.0156	.0518	-.1218
90.000	.0079	-.0258	-.0691	-.0327	.5340	-.1232
120.000	.0478	.1195	.0238	.0371	.2958	-.1246
135.000	.0076	.0531	-.0062	.2005	.2729	
147.000	.0766	.0120	.0238	.1660	.2628	-.1527
162.000	.1345	.0567	-.0156	.1742	.4686	
180.000	.1291	.0681	.0086	.1532	.5204	-.1434
189.000	.0289	.0999	.0417	.1178	.3811	
213.000	.0570	.0338	.0282	.1343	.1255	.0000
225.000	.0705	.1031	.0067	.1440	.1887	
240.000	.1093	.1028	.0425	.0547	.2308	-.1444
270.000	.0115	-.0098	-.0695	-.0194	.4225	-.1286
300.000	-.1321	-.0726	-.0305	-.0204	.0380	-.1272
330.000	.0000	-.0212	-.0594	-.0368	-.0040	-.1286

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT42)

ALPHAT(2) = -4.735 BETAT (1) = -4.139

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2881	.3382	.3904	.4445	.4987
PHI															
.000	1.7499	.1922	.2688	.7060	.6302	.1591	-.0196	-.0528	-.0844	-.0917	.0366	-.0670	.0012	.0370	.0051
30.000		.2585	.2888	.7746	.5129	.2018	.0039	-.0328	-.0680	-.0761	.0650	.0089	-.0158	-.0729	-.0918
60.000		.2832	.2474	.8828	.5610	.2552	.0424	-.0003	-.0431	-.0492	.1142	.2879	-.1234	-.1656	-.1470
90.000		.2917	.2574	1.0177	.7149	.3139	.0812	.0344	-.0125	-.0191	.3753	.6311	-.1710	-.1253	-.1288
120.000		.3039	.2921	1.0722	.7662	.3470	.1055	.0612	.0074	-.0006	.2088	.2558	.0811	-.0144	.0016
135.000			.2957	1.0888	.7726	.3691	.1137	.0651	.0124	.0034	.2070	.1928	.0596	.1608	.1933
147.000		.3125	.2946	1.0910	.7769	.3827	.1190	.0690	.0096	-.0013	.2142	.0908	.2014	.3231	.2200
162.000			.2943	1.0747	.7601	.3417	.0958	.0512	.0071	-.0057	.2023	.0113	.2471	.3228	.1683
180.000	1.7499	.3147	.2861	1.0325	.7314	.3488	.0897	.0370	-.0054	-.0140	.1822	.0012	.2211	.6471	.1519
198.000			.2879	.9532	.8325	.3275	.0594	.0277	-.0221	-.0307	.1606	.0582	.1968	.1387	.2927
213.000		.3118	.3096	.6948	.0000	.1054	-.0110	.0363	-.0285	-.0224	.0560	.0607	.2104	.2033	.2047
225.000			.3456	.8505	.5969	.2662	.0540	-.0114	-.0383	-.0362	.1020	.1198	.0716	.2157	.1135
240.000		.2416	.2505	.7960	.6342	.1926	.0190	-.0207	-.0634	-.0652	.0751	.0958	.1355	.0636	.0536
270.000		.2152	.2626	.7242	.5065	.1545	-.0181	-.0456	-.0855	-.0859	.0970	.7524	-.1781	-.1288	-.1092
300.000		.2205	.2719	.6180	.4787	.1509	-.0313	-.0577	-.0939	-.0953	.0355	.0571	-.0404	-.1488	-.1363
330.000		.2162	.2754	.6292	.4794	.0000	-.0324	-.0574	-.0946	-.0925	.0258	.0000		-.0198	-.0101

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0443	-.0875	-.0502	-.0444	-.0267	-.1312
30.000	-.0789	-.0105	-.0441	-.0308	-.0293	-.1467
60.000	-.0540	-.0511	-.0498	-.0152	.1264	-.1391
90.000	-.0105	-.0127	-.0580	-.0030	.6280	-.1352
120.000	.0337	.1228	.0627	.0789	.1765	-.1362
135.000	.0358	.0584	.0434	.3069	.2880	
147.000	.0743	.0399	.0299	.1609	.3947	-.1747
162.000	.1028	.0120	.0173	.0650	.4778	
180.000	.0921	.0685	-.0422	.0786	.4546	-.1683
198.000	.1057	.0695	-.0173	.0689	.3900	
213.000	-.0878	-.0587	-.0280	.0600	.0081	.0000
225.000	.0045	.0499	-.0387	.0575	.1446	
240.000	.1021	.0574	-.0159	.0466	.0905	-.1362
270.000	-.0169	-.0409	-.0087	-.0289	.4190	-.1344
300.000	-.0593	-.0891	-.0312	-.0187	.1304	-.1362
330.000	.0000	-.0809	-.0608	-.0300	-.0096	-.1424

ARC97-019 IAB1 (VAP(ALLHL SEALED) EXTERNAL TANK (RETT42)

ALPHAT(2) = -4.711 BETAT (2) = .215

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7456	.2217	.2896	.6765	.7340	.1657	-.0195	-.0540	-.0846	-.0912	.0465	-.0678	.0080	.0533	.0227
30.000		.2370	.2817	.7133	.5251	.1685	-.0149	-.0508	-.0825	-.0890	.0440	.0009	-.0386	-.0291	-.0433
60.000		.2538	.2767	.7608	.5491	.1923	-.0003	-.0390	-.0732	-.0803	.0623	.1777	-.1318	-.1716	-.1445
90.000		.2660	.2642	.8293	.6043	.2275	.0199	-.0172	-.0548	-.0618	.2557	.5516	-.1871	-.1195	-.1228
120.000		.2831	.2649	.9053	.6595	.2712	.0477	.0088	-.0324	-.0419	.1299	.1515	.1020	-.0170	.0437
135.000			.2649	.9611	.6799	.2961	.0662	.0224	-.0235	-.0314	.1443	.1515	.0754	.2522	.1482
147.000		.2996	.2674	1.0015	.7075	.3064	.0737	.0273	-.0164	-.0220	.1655	.0650	.1966	.2733	.1649
162.000			.2793	1.0346	.7190	.3213	.0805	.0441	-.0093	-.0158	.1806	-.0045	.2351	.1644	.1411
180.000	1.7456	.3092	.2893	1.0372	.7706	.3185	.0787	.0494	-.0014	-.0122	.1892	.0019	.2076	.6545	.1870
198.000			.3035	1.0325	.8451	.3722	.0755	.0501	-.0011	-.0115	.1611	.1181	.1787	.1637	.2958
213.000		.2667	.3455	.9085	.0000	.1575	.0152	.0711	-.0039	-.0115	.0922	.1274	.1887	.2522	.2466
225.000			.4478	.9949	.7727	.3558	.0941	.0252	-.0060	-.0067	.1522	.1493	.0830	.2505	.1799
240.000		.2242	.3223	.9394	.7537	.2755	.0680	.0167	-.0296	-.0325	.1389	.1446	.1187	.0248	.0530
270.000		.2288	.2850	.9695	.6219	.2360	.0273	-.0043	-.0539	-.0564	.1604	.8058	-.1663	-.1388	-.1124
300.000		.2317	.2907	[illegible]	.5602	.2104	.0024	-.0278	-.0709	-.0752	.0717	.1350	-.0541	-.1577	-.1420
330.000		.2263	.2978	[illegible]	.5312	.0000	-.0147	-.0441	-.0847	-.0832	.0505	.0000		-.0340	-.0500

X/LT	.5528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	-.0319	-.0654	-.0426	-.0308	-.0120	-.1204
30.000	-.0632	-.0490	-.0533	-.0158	-.0196	-.1308
60.000	-.0696	-.0900	-.0308	-.0122	.0956	-.1261
90.000	-.0166	-.0319	-.0522	-.0322	[illegible]0	-.1251
120.000	-.0055	.0918	.0146	.0274	.3125	-.1265
135.000	-.0119	.0167	-.0161	.2092	.2453	
147.000	.0615	-.0197	.0057	.1692	.2456	-.1571
162.000	.1121	.0461	-.0340	.1807	.4120	
180.000	.1099	.0389	-.0539	.1240	.4534	-.1535
198.000	.0508	.1465	.0231	.1051	.29[illegible]	
213.000	-.0158	-.0065	.0092	.1215	.13[illegible]	.0000
225.000	.0308	.0650	-.0040	.1322	.1853	
240.000	.0380	.0836	.0263	.0443	.2198	-.1571
270.000	-.0151	-.0101	-.0675	-.0109	.5226	-.1344
300.000	-.0682	-.0873	-.0233	-.0084	.0589	-.1333
330.000	.0000	-.0265	-.0436	-.0320	-.0102	-.1373

ARC87-019 IAB1 LVAP(ALLML SEALED) EXTERNAL TANK (RETT42)

ALPHAT(2) = -4.888 BETAT (3) = 3.924

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7469	.2040	.2722	.7085	.6942	.1584	-.0233	-.0552	-.0901	-.0978	.0280	-.0802	.0140	.0252	-.0183
30.000		.2286	.2629	.5956	.4676	.1341	-.0371	-.0708	-.0997	-.1059	.0145	-.0092	-.0166	-.0238	-.0166
60.000		.2393	.2682	.6096	.4606	.1320	-.0384	-.0694	-.0994	-.1041	.0249	.0697	-.1221	-.1630	-.1321
90.000		.2465	.2607	.6873	.4875	.1465	-.0278	-.0598	-.0930	-.0962	.1523	.6182	-.1869	-.1048	-.1041
120.000		.2465	.2447	.7574	.5482	.1887	-.0032	-.0385	-.0758	-.0810	.0597	.0678	.1170	.0199	.0277
135.000			.2393	.8182	.5854	.2181	.0158	-.0239	-.0610	-.0665	.0798	.1198	.0774	.2388	.0933
147.000		.2854	.2304	.8729	.6226	.2486	.0302	-.0043	-.0488	-.0549	.1038	.0771	.1932	.2585	.0880
162.000			.2478	.9452	.6702	.2954	.0622	.0114	-.0308	-.0394	.1329	.0147	.1882	.0785	.1142
180.000	1.7469	.2493	.2912	1.0031	.8451	.2876	.0929	.0444	-.0159	-.0224	.1594	.0076	.2290	.5960	.1341
198.000			.3832	1.0513	.8469	.4049	.1082	.0558	.0111	-.0083	.1752	.0040	.2716	.2109	.3606
213.000		.2404	.3807	1.0499	.0000	.2181	.0373	.0892	.0135	.0044	.1150	.1105	.2372	.3185	.2929
225.000			.5481	1.0831	.8931	.4329	.1146	.0597	.0257	.0236	.1724	.1747	.1434	.1908	.2507
240.000		.2707	.3654	1.0816	.8952	.3606	.1206	.0647	.0022	.0004	.2086	.2317	.1118	.0111	.0320
270.000		.3032	.2916	1.0491	.7342	.3206	.0804	.0405	-.0144	-.0199	.2742	.8647	-.1470	-.1371	-.0988
300.000		.2857	.2717	.9235	.6484	.2709	.0427	.0057	-.0455	-.0502	.1150	.2427	-.0522	-.1548	-.1389
330.000		.2458	.2738	.8015	.5654	.0000	.0007	-.0351	-.0759	-.0741	.0597	.0000		-.0765	-.0950

X/LT	.5528	.6340	.7423	.8506	.9264	.9832
PHI						
.000	-.0480	-.0681	-.0567	-.0560	-.0278	-.1268
30.000	-.0511	-.0742	-.0624	-.0182	-.0146	-.1303
60.000	-.0430	-.0855	-.0286	-.0135	.1348	-.1250
90.000	-.0189	-.0670	-.0265	-.0305	.5958	-.1178
120.000	.0880	.0556	-.0290	.0626	.0738	-.1167
135.000	-.0186	-.0162	-.0471	.0980	.1806	
147.000	.0444	-.0240	-.0411	.1168	.1770	-.1361
162.000	.0842	-.0080	-.0352	.1016	.2870	
180.000	.0572	.0521	.0038	.0428	.4284	-.1442
198.000	-.0065	-.0784	.0456	.0148	.4901	
213.000	.0982	.0489	.0658	.1026	.1990	.0000
225.000	.0908	.0865	.0417	.1456	.2275	
240.000	.0538	.1160	.0704	.0868	.1488	-.1368
270.000	-.0023	.0059	-.0571	.0085	.6635	-.1339
300.000	-.0536	-.0713	-.0838	-.0020	.1315	-.1314
330.000	.0000	-.0219	-.0419	-.0388	-.0227	-.1443

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT42)

ALPHAT(3) = -.349 BETAT (1) = -8.300

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.7432	.1989	.2978	.8391	.7427	.2292	.0283	-.0124	-.0510	-.0595	.0978	-.0440	-.0052	.0488	.0193
30.000		.2904	.2681	.9683	.8880	.2995	.0682	.0232	-.0219	-.0302	.1482	.0288	.0454	-.0099	-.0523
60.000		.3054	.2786	1.0841	.7513	.3527	.1036	.0503	.0001	-.0056	.1919	.3816	-.0441	-.0994	-.0956
90.000		.3115	.2911	1.0947	.7785	.3778	.1123	.0803	.0118	.0053	.4385	.7136	-.1718	-.1172	-.0123
120.000		.3043	.2833	1.0572	.7534	.3509	.1055	.0548	.0050	-.0038	.2027	.3287	.0051	-.0708	-.0626
135.000			.2697	1.0299	.7188	.3353	.0920	.0421	-.0085	-.0132	.1783	.1385	.0622	.0377	.1036
147.000		.2954	.2561	.9892	.6926	.3194	.0720	.0293	-.0145	-.0215	.1647	.0708	.1136	.1926	.2089
162.000			.2587	.9165	.6494	.2704	.0592	.0157	-.0322	-.0400	.1313	-.0045	.1816	.3245	.1845
180.000	1.7432	.2886	.2697	.8426	.6018	.2488	.0303	-.0039	-.0510	-.0559	.1059	.0818	.1553	.5399	.1022
198.000			.2847	.7750	.7188	.2218	.0022	-.0230	-.0667	-.0725	.0761	.0754	.1514	.1102	.2855
213.000		.2644	.2847	.5917	.0000	.0554	-.0491	-.0195	-.0691	-.0678	-.0038	.0408	.1290	.1617	.1207
225.000			.3070	.7241	.5679	.1959	-.0003	-.0532	-.0790	-.0783	.0417	.0915	.0143	.1763	.0771
240.000		.2444	.2651	.6844	.5153	.1448	-.0252	-.0581	-.0928	-.0946	.0281	.0593	.0491	-.0194	-.0148
270.000		.2362	.2738	.5879	.4759	.1441	-.0317	-.0624	-.1008	-.1008	.0822	.7346	-.1516	-.1268	-.0360
300.000		.2087	.2751	.6690	.4932	.1547	-.0267	-.0564	-.0953	-.0975	.0302	.0415	.0434	-.0821	-.0885
330.000		.1733	.2683	.7402	.5357	.0000	-.0078	-.0390	-.0805	-.0795	.0525	.0000		-.0190	.0164

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0222	-.0371	-.0297	-.0288	-.0390	-.1251
30.000	-.0488	.0029	-.0094	-.0210	.0160	-.1308
60.000	.0146	.0150	-.0222	-.0124	.1187	-.1262
90.000	.0171	-.0336	-.0681	-.0479	.5828	-.1276
120.000	.1280	.1113	.0696	.0968	.2699	-.1262
135.000	.0327	.0422	.0422	.3205	.3165	
147.000	.0479	.0244	.0301	.1503	.4608	-.1641
162.000	.0738	.0255	-.0132	.0407	.6035	
180.000	.0816	-.0187	-.0412	.0631	.4565	-.1738
198.000	.0748	-.0959	-.0781	.0280	.4521	
213.000	-.1140	-.0849	-.0632	.0188	-.0216	.0000
225.000	-.0318	-.0105	-.0663	.0294	.1263	
240.000	.0440	-.0019	-.0578	.0301	.0652	-.1269
270.000	-.0194	-.0881	-.0440	.0663	.3831	-.1247
300.000	.0217	.0123	-.0302	-.0364	.1343	-.1278
330.000	.0000	-.0553	-.0281	-.0281	-.0148	-.1290

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT42)

ALPHAT(3) = -.352 BETAT (2) = -4.165

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7532	.1834	.3037	.8465	.7875	.2330	.0233	-.0143	-.0518	-.0603	.1004	-.0387	-.0013	.0649	.0411
30.000		.2753	.2810	.9266	.6719	.2768	.0509	.0068	-.0330	-.0405	.1319	.0164	.0329	-.0011	-.0385
60.000		.3009	.2781	.9887	.7151	.3122	.0781	.0290	-.0171	-.0239	.1602	.2800	-.0539	-.1064	-.1043
90.000		.3041	.2799	1.0203	.7354	.3189	.0798	.0361	-.0086	-.0152	.3683	.6624	-.1699	-.1227	-.0403
120.000		.3037	.2767	.9887	.7240	.3044	.0788	.0294	-.0171	-.0225	.1723	.2570	.0009	-.0883	-.0835
135.000			.2724	.9700	.6969	.3026	.0663	.0187	-.0235	-.0286	.1512	.1225	.0272	.0220	.0913
147.000		.2984	.2724	.9478	.6851	.3009	.0514	.0152	-.0259	-.0362	.1426	.0678	.1481	.2613	.1543
162.000			.2806	.9065	.6512	.2542	.0408	-.0012	-.0422	-.0448	.1223	.0226	.1925	.2677	.1465
180.000	1.7532	.2745	.2855	.8551	.6134	.2556	.0315	-.0100	-.0539	-.0560	.1065	.0955	.1588	.5545	.1104
198.000			.2873	.8052	.7240	.2461	.0084	-.0148	-.0567	-.0657	.0858	.0742	.1624	.1266	.2314
213.000		.2478	.3004	.6594	.0000	.0753	-.0413	-.0054	-.0571	-.0647	.0135	.0485	.1361	.1712	.1560
225.000			.3518	.7693	.6166	.2241	.0155	-.0373	-.0625	-.0639	.0708	.1111	.0244	.1904	.1139
240.000		.2201	.3032	.7447	.5463	.1722	-.0054	-.0401	-.0802	-.0787	.0529	.0738	.0471	-.0435	-.0141
270.000		.2482	.2926	.6883	.5235	.1672	-.0122	-.0465	-.0856	-.0852	.1090	.7887	-.1546	-.1263	-.0453
300.000		.2201	.3242	.7390	.5256	.1789	-.0076	-.0401	-.0834	-.0838	.0640	.0759	.0432	-.0867	-.1012
330.000		.1709	.3188	.7854	.5548	.0000	.0013	-.0298	-.0701	-.0673	.0722	.0000		-.0085	.0061

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0066	-.0296	-.0298	-.0168	-.0251	-.1271
30.000	-.0412	-.0073	-.0014	-.0150	.0142	-.1285
60.000	.0008	.0167	-.0156	-.0058	.1483	-.1239
90.000	.0164	-.0394	-.0696	-.0571	.5508	-.1235
120.000	.0640	.0685	.0426	.0639	.2212	-.1210
135.000	.0022	.0199	.0202	.2823	.2796	
147.000	.0347	.0139	-.0035	.1382	.3924	-.1660
162.000	.0704	-.0160	-.0033	.0353	.5099	
180.000	.0648	.0192	-.0674	.0611	.4097	-.1648
198.000	.0803	.0128	-.0610	.0707	.3358	
213.000	-.1037	-.0788	-.0845	.0476	.0175	.0000
225.000	-.0278	.0025	-.0759	.0532	.1368	
240.000	.0220	.0199	-.0373	.0434	.0950	-.1331
270.000	-.0123	-.0738	-.0422	-.0453	.4267	-.1296
300.000	.0051	.0217	-.0214	-.0283	.1462	-.1324
330.000	.0000	-.0504	-.0249	-.0215	-.0088	-.1339

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT42)

ALPHAT(3) = -.347 BETAT (3) = .195

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7583	.1994	.3439	.8742	.8532	.2376	.0260	-.0126	-.0504	-.0578	.1059	-.0390	-.0116	.0716	.0504
30.000		.2136	.3436	.8602	.6098	.2316	.0260	-.0140	-.0521	-.0589	.1006	-.0060	.0102	.0026	-.0025
60.000		.2766	.3130	.8598	.6119	.2348	.0250	-.0172	-.0546	-.0600	.0984	.1374	-.0591	-.1122	-.1139
90.000		.2927	.3101	.8595	.6173	.2334	.0201	-.0165	-.0535	-.0600	.2530	.5901	-.1672	-.1481	-.0589
120.000		.2991	.3108	.8605	.6130	.2295	.0244	-.0150	-.0539	-.0604	.1027	.1422	.0048	-.0948	-.0699
135.000			.3094	.8770	.5080	.2468	.0248	-.0122	-.0496	-.0578	.0999	.0955	.0020	.1092	.0689
147.000		.2923	.3090	.8860	.6205	.2362	.0312	-.0111	-.0525	-.0557	.1088	.0516	.1305	.2443	.1058
162.000			.3161	.8835	.6205	.2338	.0226	-.0072	-.0475	-.0567	.1084	-.0298	.1643	.1977	.0913
180.000	1.7583	.2741	.3171	.8774	.6251	.2483	.0216	-.0054	-.0436	-.0528	.1160	.0883	.1462	.5455	.1690
198.000			.3348	.8724	.7865	.2833	.0233	.0017	-.0433	-.0528	.0934	.0855	.1398	.1362	.3160
213.000		.2425	.3462	.8433	.0000	.1170	-.0140	.0215	-.0362	-.0488	.0383	.1108	.1590	.2151	.1868
225.000			.4088	.8854	.7747	.2833	.0461	-.0051	-.0333	-.0347	.0730	.0962	.0940	.1090	.1498
240.000		.2624	.3334	.8911	.6387	.2483	.0343	.0024	-.0521	-.0492	.1167	.1244	.0225	-.0642	-.0525
270.000		.2756	.3362	.9103	.6380	.2391	.0340	-.0054	-.0535	-.0524	.1711	.8452	-.1701	-.1363	-.0710
300.000		.2738	.3384	.8986	.6319	.2479	.0312	-.0058	-.0521	-.0535	.1124	.1319	.0264	-.0951	-.1058
330.000		.2499	.3444	.8979	.6258	.0000	.0283	-.0068	-.0521	-.0525	.1067	.0000		-.0131	-.0036

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0031	-.0263	-.0346	-.0087	-.0128	-.1258
30.000	-.0178	-.0387	-.0193	-.0108	-.0121	-.1290
60.000	-.0128	.0123	-.0175	-.0147	.1624	-.1208
90.000	.0010	-.0642	-.0738	-.0498	.5837	-.1215
120.000	-.0050	.0409	-.0022	.0253	.3156	-.1283
135.000	-.0174	-.0257	-.0321	.2000	.2155	
147.000	.0583	-.0533	-.0346	.1508	.2011	-.1501
162.000	.0633	.0106	-.0767	.1327	.2812	
180.000	.0675	-.0118	-.0906	.1033	.2802	-.1519
198.000	.0481	.0740	-.0172	.0959	.1855	
213.000	-.0790	-.0521	-.0314	.1093	.1328	.0000
225.000	-.0036	.0142	-.0271	.1368	.1703	
240.000	.0031	.0451	.0023	.0396	.2050	-.1494
270.000	.0169	-.0510	-.0781	-.0381	.5277	-.1304
300.000	-.0104	.0220	-.0165	-.0113	.1523	-.1297
330.000	.0000	-.0410	-.0051	-.0204	.0039	-.1315

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT42)

ALPHAT(3) = -.323 BETAT (4) = 3.895

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7414	.1652	.3185	.8517	.8085	.2306	.0228	-.0141	-.0533	-.0814	.0956	-.0463	-.0032	.0478	.0222
30.000		.1602	.3096	.7682	.5455	.1921	.0002	-.0393	-.0731	-.0791	.0806	-.0120	-.0142	-.0086	.0158
60.000		.2207	.2921	.7115	.5102	.1656	-.0164	-.0532	-.0834	-.0899	.0477	.0695	-.0395	-.1027	-.1025
90.000		.2616	.2911	.6699	.5062	.1557	-.0265	-.0578	-.0865	-.0924	.1660	.7088	-.1659	-.1563	-.0356
120.000		.2580	.2861	.7093	.5112	.1649	-.0237	-.0535	-.0826	-.0881	.0545	.0744	.0189	-.0690	-.0168
135.000			.2808	.7542	.5230	.1726	-.0105	-.0457	-.0805	-.0831	.0527	.0851	.0370	.1980	.0562
147.000		.2495	.2758	.7814	.5451	.1818	-.0098	-.0439	-.0727	-.0787	.0641	.0662	.1303	.2232	.0360
162.000			.2804	.8051	.5701	.2207	.0093	-.0296	-.0667	-.0697	.0677	.0563	.1522	.0706	.0788
180.000	1.7414	.2253	.2892	.8403	.6543	.2090	.0289	-.0077	-.0536	-.0625	.0970	.0331	.1959	.5638	.0894
198.000			.3218	.9066	.6886	.3119	.0559	.0015	-.0296	-.0524	.1092	-.0217	.1966	.2094	.3267
213.000		.2370	.3016	.9170	.0000	.1320	-.0109	.0394	-.0314	-.0394	.0806	.0676	.1767	.2634	.2520
225.000			.4244	.9890	.8516	.3359	.0608	.0263	-.0073	-.0167	.1467	.1086	.0610	.0632	.1220
240.000		.2932	.3200	1.0339	.7289	.3338	.0711	.0436	-.0171	-.0196	.1696	.2200	.0212	-.0685	-.0600
270.000		.3003	.3232	1.0700	.7482	.3338	.0893	.0447	-.0127	-.0149	.2707	.8974	-.1744	-.1280	-.0373
300.000		.2818	.3246	1.0407	.7260	.3281	.0743	.0355	-.0167	-.0207	.1674	.2489	.0209	-.0904	-.0929
330.000		.2466	.3101	.9587	.6716	.0000	.0530	.0136	-.0383	-.0370	.1328	.0000		.0027	-.0442

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0134	-.0346	-.0336	-.0279	-.0330	-.1201
30.000	-.0183	-.0505	-.0345	-.0173	-.0125	-.1251
60.000	.0107	.0103	-.0215	-.0219	.1476	-.1219
90.000	-.0353	-.0943	-.0488	-.0456	.5835	-.1172
120.000	.0064	.0222	-.0545	.0582	.0711	-.1136
135.000	-.0594	-.0584	-.0709	.0868	.1750	
147.000	.0078	-.0862	-.0702	.0985	.1562	-.1308
162.000	.0262	-.0400	-.1076	.0883	.2074	
180.000	.0135	.0197	-.0240	.0589	.3880	-.1412
198.000	-.0290	-.0680	.0082	-.0056	.4627	
213.000	.0170	.0158	.0341	.0922	.2006	.0000
225.000	.0545	.0375	.0142	.1205	.2125	
240.000	.0552	.0674	.0429	.0776	.2229	-.1376
270.000	.0107	-.0257	-.0729	-.0248	.6405	-.1258
300.000	.0008	.0112	-.0233	-.0089	.1443	-.1247
330.000	.0000	-.0076	-.0053	-.0248	.0267	-.1326

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT42)

ALPHAT(3) = -.319 BETAT (5) = 6.687

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7351	.1613	.2925	.8311	.8884	.2311	.0227	-.0184	-.0527	-.0584	.0915	-.0505	-.0022	.0329	.0009
30.000		.1428	.2704	.7017	.5080	.1693	-.0123	-.0491	-.0798	-.0847	.0425	.0006	-.0321	-.0271	.0026
60.000		.1886	.2678	.6303	.4595	.1340	-.0328	-.0685	-.0944	-.0995	.0267	.0253	-.0464	-.1002	-.0945
90.000		.2324	.2816	.5529	.4493	.1301	-.0392	-.0897	-.0986	-.1038	.1594	.7540	-.1712	-.1489	-.0304
120.000		.2288	.2591	.6314	.4595	.1364	-.0374	-.0647	-.0937	-.1006	.0310	.0410	.0167	-.0345	-.0350
135.000			.2516	.6873	.4726	.1442	-.0289	-.0622	-.0895	-.0916	.0264	.0680	.0452	.1941	.0133
147.000		.2192	.2423	.7167	.5023	.1608	-.0243	-.0505	-.0813	-.0851	.0371	.0502	.1258	.2168	.0175
162.000			.2433	.7522	.5376	.2035	-.0015	-.0350	-.0672	-.0772	.0543	.0513	.1369	.0322	.0452
180.000	1.7351	.2078	.2525	.8186	.6770	.1989	.0361	-.0117	-.0474	-.0581	.0940	.0484	.1685	.4622	.0743
198.000			.2755	.9258	.5957	.3003	.0847	.0053	-.0089	-.0322	.1154	.0260	.1739	.1909	.4303
213.000		.2655	.2568	.9158	.0000	.1117	-.0349	.0527	-.0301	-.0394	.0975	.0852	.1796	.2246	.2633
225.000			.4057	1.0213	.9129	.3490	.0872	.0505	.0089	-.0055	.1798	.1219	.0492	.0519	.1257
240.000		.3334	.3173	1.0652	.7700	.3713	.1085	.0689	.0039	.0028	.2077	.2674	.0265	-.0640	-.0484
270.000		.3313	.3244	1.1122	.7996	.3883	.1241	.0735	.0132	.0150	.3414	.9322	-.1723	-.1367	-.0226
300.000		.3149	.3183	1.0730	.7625	.3727	.1098	.0618	.0028	-.0001	.2037	.3162	.0255	-.0913	-.0889
330.000		.2950	.2907	.9971	.6872	.0000	.0694	.0279	-.0239	-.0266	.1462	.0000		-.0165	-.0584

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0325	-.0517	-.0367	-.0391	-.0485	-.1215
30.000	-.0329	-.0527	-.0360	-.0214	-.0264	-.1237
60.000	.0121	.0008	-.0303	-.0267	.1380	-.1208
90.000	-.0517	-.0943	-.0566	-.0487	.5855	-.1187
120.000	.0157	-.0043	-.0762	.0538	.0965	-.1126
135.000	-.0775	-.0701	-.0943	.0499	.1452	
147.000	-.0354	-.0687	-.0605	.0357	.1897	-.1258
162.000	-.0336	-.0666	-.0990	.0332	.2443	
180.000	-.0134	-.0157	-.0572	.0002	.3158	-.1416
198.000	-.0563	-.1277	.0421	-.0001	.6769	
213.000	.0735	.0316	.0485	.1063	.2363	.0000
225.000	.0940	.0682	.0346	.1843	.2681	
240.000	.1312	.1062	.0747	.1073	.3050	-.1731
270.000	.0192	-.0090	-.0558	-.0405	.6026	-.1291
300.000	.0047	.0177	-.0161	-.0243	.1315	-.1258
330.000	.0000	-.0132	-.0157	-.0351	.0206	-.1387

ARC97-019 IABI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT42)

ALPHAT(4) = 3.380 BETAT (1) = -4.144

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2584	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7505	.1961	.3181	1.0339	.9025	.3201	.0790	.0368	-.0121	-.0204	.1727	-.0024	.0187	.0875	.0745
30.000		.2729	.3522	1.0788	.7737	.3579	.1003	.0535	.0080	-.0023	.2083	.0301	.0917	.0431	.0235
60.000		.3227	.2932	1.0849	.7769	.3558	.1081	.0571	.0062	-.0009	.1999	.2528	.0354	-.0275	-.0822
90.000		.3124	.2883	1.0285	.7267	.3169	.0777	.0318	-.0086	-.0153	.3404	.8930	-.1720	-.1141	-.0696
120.000		.2984	.2615	.8950	.6514	.2574	.0439	.0034	-.0369	-.0427	.1252	.2329	-.0687	-.1251	-.0823
135.000			.2647	.8430	.6090	.2351	.0301	-.0115	-.0521	-.0608	.0930	.0596	.0068	-.0201	-.0073
147.000		.2789	.2711	.8060	.5840	.2164	.0084	-.0282	-.0620	-.0673	.0812	.0393	.1173	.1506	.1029
162.000			.2841	.7629	.5473	.1877	-.0026	-.0355	-.0737	-.0917	.0555	.0532	.1350	.2465	.1301
180.000	1.7505	.2683	.2884	.7173	.5112	.1764	-.0161	-.0475	-.0843	-.0893	.0433	.0589	.1272	.5034	.0710
198.000			.2834	.6692	.6464	.1852	-.0314	-.0528	-.0843	-.0932	.0247	.0233	.1240	.0924	.2176
213.000		.2548	.2962	.5447	.0000	.0458	-.0676	-.0369	-.0836	-.0969	-.0221	.0408	.1297	.1638	.0958
225.000			.3199	.5983	.5276	.1834	-.0179	-.0556	-.0813	-.0849	.0079	.0682	.0555	.0784	.0823
240.000		.2484	.2905	.6132	.5319	.1512	-.0239	-.0521	-.0929	-.0932	.0390	.0707	-.0417	-.1128	-.0661
270.000		.1946	.2912	.7306	.5080	.1647	-.0132	-.0426	-.0839	-.0849	.0966	.7738	-.1688	-.1153	-.1238
300.000		.1313	.3270	.7745	.5619	.2111	.0148	-.0178	-.0644	-.0676	.0834	.0842	.1471	-.0151	-.0508
330.000		.1082	.3688	.8993	.6462	.0000	.0421	.0068	-.0417	-.0385	.1259	.0000		.0381	.0531

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0347	.0124	-.0116	.0128	.0042	-.1103
30.000	.0050	.0053	.0278	.0238	.0186	-.1110
60.000	-.0251	.0354	.0421	.0281	.1275	-.1128
90.000	.0563	.0666	.0403	.0401	.3674	-.1239
120.000	.0071	.0435	.0284	.0373	.3944	-.1292
135.000	.0301	.0159	.0078	.2850	.3263	
147.000	.0007	.0175	.0260	.1250	.3728	-.1511
162.000	.0290	-.0194	.0273	.0493	.5340	
180.000	.0421	-.0052	-.0569	.0964	.4183	-.1604
198.000	.0679	-.0383	-.0555	.0790	.3389	
213.000	-.1213	-.0859	-.0640	.0727	.0749	.0000
225.000	-.0499	-.0148	-.0739	.0850	.1730	
240.000	.0219	.0143	-.0307	.0640	.1856	-.1253
270.000	.0994	.0804	-.0003	-.0251	.3234	-.1210
300.000	-.0269	.0598	.0199	-.0207	.1135	-.1203
330.000	.0000	-.0127	.0104	.0002	-.0501	-.1184

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT42)

ALPHAT(4) = 3.375 BETAT (2) = .195

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7605	.1543	.3946	1.0380	1.0118	.3312	.0827	.0372	-.0115	-.0175	.1806	-.0038	.0159	.0964	.0865
30.000		.1326	.8998	.9821	.7090	.3096	.0728	.0269	-.0179	-.0258	.1599	.0048	.0799	.0447	.0422
60.000		.1724	.3687	.9000	.6580	.2732	.0515	.0060	-.0363	-.0445	.1188	.1434	.0757	-.0286	-.0668
90.000		.2474	.2826	.8390	.6074	.2308	.0202	-.0189	-.0565	-.0640	.2114	.6009	-.1649	-.1175	-.1263
120.000		.2769	.3004	.7727	.5515	.1905	.0013	-.0334	-.0703	-.0792	.0673	.1472	-.0731	-.1441	-.1202
135.000			.3029	.7540	.5269	.1845	-.0104	-.0452	-.0763	-.0831	.0512	.0625	.0063	-.0003	.0192
147.000		.2794	.3040	.7386	.5276	.1841	-.0132	-.0434	-.0777	-.0885	.0501	.0757	.1159	.2101	.0811
162.000			.3120	.7153	.5187	.1530	-.0217	-.0505	-.0806	-.0896	.0484	.0614	.1099	.1705	.1102
180.000	1.7605	.2769	.3152	.6913	.5333	.1763	-.0203	-.0473	-.0791	-.0871	.0530	.0607	.1467	.4396	.1328
198.000			.3162	.7078	.6017	.2131	-.0214	-.0406	-.0777	-.0867	.0491	.0355	.1829	.1156	.2263
213.000		.2766	.3183	.7056	.0000	.0735	-.0480	-.0207	-.0703	-.0795	.0026	.0362	.1347	.1945	.1594
225.000			.3569	.7592	.6872	.2060	-.0072	-.0363	-.0633	-.0654	.0548	.0429	.0097	.0171	.1052
240.000		.2769	.3297	.8127	.5590	.2287	.0081	-.0268	-.0694	-.0734	.0791	.1276	-.0502	-.1280	-.1146
270.000		.2435	.3265	.8825	.6206	.2538	.0312	-.0038	-.0510	-.0546	.1560	.8371	-.1437	-.1309	-.1270
300.000		.1550	.4001	.9235	.6805	.2905	.0614	.0214	-.0312	-.0355	.1381	.1525	.1375	-.0201	-.0583
330.000		.1301	.6386	1.0204	.7220	.0000	.0770	.0352	-.0171	-.0167	.1699	.0000		.0334	.0229

X/LT	.5528	6340	.7423	.8506	.9264	.9838
PHI						
.000	.0486	.0201	-.0118	.0186	.0152	-.1082
30.000	.0204	.0024	.0127	.0168	.0059	-.1157
60.000	-.0375	.0424	.0369	.0072	.1321	-.1107
90.000	.0710	.0923	.0252	-.0115	.4547	-.1118
120.000	.0120	.0273	-.0072	.0649	.1869	-.1207
135.000	-.0241	-.0345	-.0416	.1902	.2561	
147.000	.0201	-.0629	-.0359	.1753	.2236	-.1368
162.000	.0360	-.0175	-.0773	.1615	.2719	
180.000	.0385	.0042	-.1074	.1392	.2438	-.1343
198.000	.0353	.0497	-.0204	.1226	.1923	
213.000	-.0909	-.0558	-.0292	.1346	.1580	.0000
225.000	-.0234	.0131	-.0260	.1331	.1948	
240.000	.0257	.0300	.0005	.0599	.2236	-.1461
270.000	.0812	.0876	.0217	.0019	.3963	-.1157
300.000	-.0330	.0507	.0405	.0070	.1414	-.1150
330.000	.0000	.0080	.0196	.0109	.0148	-.1178

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT42)

ALPHAT(4) = 3.387 BETAT (3) = 3.895

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7322	.1938	.3423	1.0427	.9713	.3202	.0793	.0355	-.0091	-.0204	.1692	-.0095	.0139	.0703	.0615
30.000		.0958	.4074	.8806	.6339	.2576	.0383	-.0032	-.0427	-.0496	.1103	-.0138	.0630	.0479	.0466
60.000		.1175	.3042	.7515	.5387	.1907	.0011	-.0386	-.0713	-.0774	.0620	.0699	.1417	-.0248	-.0515
90.000		.1947	.2548	.6909	.4832	.1483	-.0295	-.0593	-.0869	-.0911	.1342	.6326	-.1634	-.0985	-.0887
120.000		.2310	.2719	.6031	.4606	.1270	-.0373	-.0696	-.0979	-.1015	.0273	.0865	-.0627	-.1347	-.0657
135.000			.2712	.5780	.4521	.1440	-.0387	-.0660	-.0954	-.1048	.0218	.0673	.0267	.0717	-.0079
147.000		.2402	.2680	.5984	.4673	.1267	-.0387	-.0714	-.0968	-.1015	.0184	.0530	.1089	.1987	.0225
162.000			.2805	.6490	.4811	.1426	-.0344	-.0621	-.0950	-.0986	.0198	.0470	.1022	.0121	.1057
180.000	1.7322	.2263	.2741	.6945	.5440	.1338	-.0178	-.0487	-.0841	-.0929	.0331	.0506	.1338	.3913	.0994
198.000			.2653	.7522	.5095	.2141	.0135	-.0459	-.0604	-.0783	.0502	.0555	.1281	.1515	.3674
213.000		.2516	.2635	.7397	.0000	.0326	-.0813	-.0158	-.0756	-.0831	.0173	.0296	.1111	.1334	.2222
225.000			.3512	.8400	.7580	.2356	.0149	-.0105	-.0460	-.0554	.0949	.0545	-.0109	-.0221	.0363
240.000		.2815	.3084	.9278	.6521	.2972	.0451	.0107	-.0374	-.0442	.1203	.2108	-.0489	-.1209	-.0872
270.000		.3188	.3106	1.0681	.7477	.3371	.0841	.0468	-.0089	-.0164	.2518	.8692	-.1383	-.1294	-.0763
300.000		.3318	.3282	1.1082	.7901	.3789	.1079	.0620	.0088	.0048	.2100	.2485	.1242	-.0200	-.0536
330.000		.3007	.3495	1.1000	.7824	.0000	.1093	.0648	.0052	.0027	.2060	.0000		.0452	.0214

X/LT	.5828	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0239	.0041	-.0122	.0085	-.0024	-.1183
30.000	.0133	-.0122	.0020	.0007	.0044	-.1130
60.000	-.0303	.0486	.0091	-.0192	.0857	-.1123
90.000	.0883	.1004	-.0023	-.0158	.3287	-.1090
120.000	-.0228	.0023	-.0524	.0754	.1850	-.1090
135.000	-.0540	-.0775	-.0844	.1214	.1907	
147.000	-.0168	-.0787	-.0527	.1207	.1521	-.1302
162.000	-.0055	-.0618	-.0716	.1040	.1680	
180.000	-.0002	-.0128	-.0447	.0916	.3871	-.1405
198.000	-.0377	-.0506	.0134	.0651	.6029	
213.000	-.0055	.0066	.0456	.1140	.2254	.0000
225.000	.0550	.0244	.0141	.1829	.2366	
240.000	.0865	.0414	.0350	.0738	.3498	-.1158
270.000	.0752	.0883	.0368	.0452	.3388	-.1212
300.000	-.0232	.0414	.0414	.0268	.1326	-.1234
330.000	.0000	-.0002	.0343	.0178	.0356	-.1234

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ARC87-019 IAB1 LVAP(ALLML SEALED) EXTERNAL TANK (RETT42)

ALPHAT(6) = 6.157 BETAT (1) = .212

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7563	.1557	.4983	1.1222	.9985	.3729	.1132	.0656	.0133	.0043	.2182	.0198	.0351	.1015	.1037
30.000		.1123	.5030	1.0640	.7590	.3509	.0998	.0511	.0009	-.0087	.1949	.0184	.1014	.0716	.0593
60.000		.1166	.4632	.9373	.8795	.2922	.0634	.0163	-.0281	-.0357	.1327	.1581	.1677	.0072	-.0359
90.000		.1867	.2625	.8060	.5957	.2275	.0166	-.0206	-.0589	-.0671	.2039	.5843	-.1776	-.1199	-.1303
120.000		.2461	.2611	.7188	.5205	.1677	-.0114	-.04[illegible]	-.0798	-.0888	.0412	.1291	-.1092	-.1726	-.1420
135.000			.2785	.6972	.4875	.1610	-.0235	-.0579	-.0901	-.0971	.0237	.0422	.0052	-.0412	-.0305
147.000		.2615	.2814	.6699	.4783	.1514	-.0338	-.0618	-.0922	-.1018	.0216	.0490	.0971	.1884	.0547
162.000			.2912	.6233	.4677	.1306	-.0373	-.0653	-.0964	-.1040	.0177	.0454	.0823	.1154	.1175
180.000	1.7563	.2636	.2948	.5723	.5141	.1433	-.0359	-.0600	-.0932	-.1029	.0244	.0355	.1449	.3809	.1186
198.000			.2934	.6100	.4740	.1797	- 0394	-.0600	-.0886	-.1000	.0219	.0333	.1335	.0766	.2634
213.000		.2703	.2962	.6075	.0000	.0453	-.0675	-.0384	-.0862	-.0931	-.0099	.0333	.1118	.1464	.1278
225.000			.3284	.7009	.6189	.1624	-.0245	-.0472	-.0769	-.0812	.0362	.0155	-.0320	-.0490	.0302
240.000		.2614	.3153	.7572	.5198	.1928	-.0025	-.0341	-.0780	-.0812	.0527	.1235	-.0918	-.1583	-.1416
270.000		.1814	.3132	.8467	.6075	.2452	.0291	-.0090	-.0563	-.0560	.1485	.8066	-.1295	-.1335	-.1161
300.000		.1219	.4662	.9657	.6987	.3120	.0717	.0327	-.0210	-.0253	.1556	.1787	.1859	.0135	-.0256
330.000		.1127	.4754	1.0844	.7706	.0000	.1051	.0586	.0025	.0019	.2028	.0000		.0572	.0371

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0651	.0420	.0082	.0251	.0250	-.1140
30.000	.0325	.0197	.0125	.0268	.0131	-.1154
60.000	-.0186	.0105	.0470	.0179	.1682	-.1068
90.000	.0417	.0948	.0239	-.0222	.4669	-.1065
120.000	.0115	.0153	-.0068	.0893	.2380	-.1233
135.000	-.0307	-.0321	-.0388	.1994	.2749	
147.000	-.0041	-.0602	-.0257	.2040	.2517	-.1509
162.000	.0225	-.0417	-.0662	.1930	.2843	
180.000	.0254	-.0025	-.0776	.1685	.2821	-.1441
198.000	.0126	.0506	-.0115	.1469	.2369	
213.000	-.1016	-.0599	-.0037	.1564	.1913	.0000
225.000	-.0314	.0114	-.0186	.1302	.2257	
240.000	.0176	.0264	.0020	.0897	.2369	-.1244
270.000	.0349	.0930	.0179	-.0220	.5609	-.1161
300.000	-.0108	.0128	.0517	.0178	.1657	-.1176
330.000	.0000	.0239	.0176	.0232	.0250	-.1172

ARC97-019 IA81 LVAPIALLHL SEALED) EXTERNAL TANK (RETT43) (30 JAN 75)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAT(1) = -7.047 BETAT (1) = .420

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.390	.4445	.4987
PHI															
.000	1.5624	.5408	.6534	.6808	.5890	.1007	-.1445	-.1906	-.2389	-.2231	.0359	.0193	.0584	-.0377	-.1489
30.000		.5986	.6725	.7277	.5041	.1004	-.1365	-.1845	-.2331	-.2185	.0317	-.0273	-.0780	-.1681	-.0923
60.000		.6265	.6732	.7851	.5389	.1329	-.1139	-.1641	-.2189	-.1195	.0356	.0548	-.4532	-.2415	-.0936
90.000		.6560	.6579	.8611	.6121	.1853	-.0789	-.1310	-.1863	.1374	.5000	.0977	-.4909	-.1914	-.1528
120.000		.7209	.6842	.9447	.7026	.2497	-.0200	-.0805	-.1511	-.1315	.1920	.4757	.0756	.0699	.1272
135.000			.6946	.9925	.7384	.2937	.0079	-.0611	-.1266	-.1066	.2104	.1977	.2938	.1552	.0480
147.000		.7906	.7163	1.0269	.7736	.3200	.0231	-.0407	-.0995	-.0997	.2130	.2724	.3679	.2254	-.0923
162.000			.7631	1.0558	.7990	.3486	.0322	-.0020	-.0953	-.0820	.2327	.2809	.4589	-.1409	-.1172
180.000	1.5624	.8383	.7490	1.0699	.8026	.3870	.0619	-.0299	-.0717	-.0813	.2505	.2480	.5205	.3847	.0108
198.000			.8116	1.0546	.7043	.3812	.0832	-.0378	-.0688	-.0635	.2365	.2448	.4369	-.1031	-.0092
213.000		.7731	.8552	.9417	.0000	.0870	-.1268	.0303	-.1092	-.1079	.1339	.2477	.3772	.1295	.1629
225.000			.8890	1.0278	.6382	.2894	.0367	-.0617	-.1168	-.0859	.2059	.2562	.2378	.1331	.0760
240.000		.7024	.7290	.9774	.6811	.3213	-.0255	-.0543	-.1441	-.1267	.2098	.4903	.0887	.0702	.1135
270.000		.6593	.6907	.8872	.6320	.2094	-.0605	-.1114	-.1892	.1143	.4410	.2633	-.4512	-.2239	-.1460
300.000		.6261	.6956	.8039	.5552	.1495	-.1116	-.1618	-.2218	-.1826	.0258	.0353	-.3454	-.2763	-.1059
330.000		.5739	.6546	.7342	.5100	.1085	-.1427	-.1963	-.2375	-.2216	.0193	.0000		-.1751	-.1153

X/LT	.5528	.6340	.7423	.8506	.9264	.9638
PHI						
.000	-.1243	-.0587	.0147	.0077	.0411	-.1993
30.000	-.0865	-.0557	-.0057	-.0010	.0591	-.2143
60.000	-.0681	-.0788	-.0320	.0135	.1956	-.2075
90.000	-.1875	-.0685	-.0608	.0853	.6357	-.2033
120.000	.0300	-.0083	-.0876	.0587	.2889	-.1954
135.000	.0825	-.0294	-.1255	.2419	.2846	
147.000	.0994	.0173	-.0770	.1763	.2261	-.2114
162.000	-.0359	.0445	-.0556	.1503	.3256	
180.000	.0300	.0796	-.1317	.1387	.3448	-.2029
198.000	-.1195	-.0967	-.0640	.1085	.2047	
213.000	.1242	.0241	-.0543	.1233	.0951	-.2006
225.000	.0799	.0205	-.0911	.1462	.1439	
240.000	.0335	.0075	-.0769	.0841	.2229	-.2081
270.000	-.2272	-.0708	-.0504	.0427	.5707	-.1993
300.000	-.1433	-.0456	-.0314	.0058	.2063	-.2052
330.000	-.0875	-.0575	-.0075	.0022	.0736	-.2127

ARC97-019 1A81 LVAP(ALLML SEALED) EXTERNAL TANK (RETT43)

ALPHAT(2) = -4.832 BETAT (1) = -3.960

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5581	.6243	.6757	.7785	.7278	.1241	-.1229	-.1738	-.2256	-.2134	.0338	-.0072	.0484	-.0465	-.1.35
30.000		.6573	.6993	.8393	.5488	.1742	-.0923	-.1444	-.2040	-.1947	.0571	-.0219	-.1578	-.2099	-.1059
60.000		.7064	.6941	.9200	.5917	.2726	-.0485	-.1060	-.1718	-.1452	.1300	.1090	-.4142	-.2551	-.1110
90.000		.7510	.7164	.9965	.7421	.2934	-.0033	-.0675	-.1332	.2205	.6078	.1579	-.432	-.2399	-.1258
120.000		.7876	.7180	1.0438	.7980	.3304	.0290	-.0307	-.1010	-.0937	.2354	.3462	-.1061	.0152	.1852
135.000			.7248	1.0582	.7989	.3516	.0429	-.0168	-.0974	-.0924	.2322	.2291	.1986	.1587	.0588
147.000		.7999	.7410	1.0615	.8077	.3519	.0426	-.0201	-.1026	-.0858	.2296	.2349	.3695	.2249	-.0069
162.000			.7344	1.0419	.7895	.3223	.0239	-.0449	-.0945	-.0999	.2151	.2633	.4506	-.0798	-.1422
180.000	1.5581	.7753	.7389	1.0167	.7875	.2927	.0345	-.0401	-.1293	-.1065	.1964	.2491	.5295	.3433	-.0166
198.000			.7471	.9759	.6492	.3619	-.0210	-.0585	-.1415	-.1340	.1709	.2255	.4065	-.1934	.0549
213.000		.7213	.8259	.7641	.0000	-.0012	-.2132	-.0482	-.1744	-.1439	.0990	.2145	.2890	.0355	.0410
225.000			.8010	.9045	.4786	.1979	-.0423	-.1332	-.1865	-.1537	.1419	.1727	.1970	.0663	.0266
240.000		.6427	.7138	.8629	.5468	.2170	-.1008	-.1280	-.2079	-.0366	.1348	.3792	.0952	.0676	.0456
270.000		.6049	.6876	.7954	.5439	.1134	-.1257	-.1602	-.2289	.0578	.3799	.1983	-.4176	-.2279	-.2125
300.000		.5347	.6507	.7213	.5254	.1238	-.1321	-.1747	-.2367	-.1709	.0199	.1753	-.2816	-.2163	-.0694
330.000		.5490	.6540	.7297	.5169	.1170	-.1363	-.1847	-.2404	-.2152	.0334	.0000		-.0740	-.1291

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1227	-.0576	.0074	-.0002	.0497	-.1748
30.000	-.0624	-.0611	-.0297	-.0295	.0552	-.1949
60.000	-.0743	-.0563	-.0097	-.0047	.2274	-.1822
90.000	-.2232	-.0178	-.0330	-.0147	.7453	-.1796
120.000	.0744	.0113	-.0103	.0311	.3567	-.1770
135.000	.0852	.0169	-.0391	.2593	.4050	
147.000	.1008	.0610	-.0084	.1527	.4306	-.2353
162.000	-.0208	.1080	-.0752	.1232	.5100	
180.000	-.1252	.0552	-.0095	.1280	.5148	-.1939
198.000	-.1246	-.0158	-.0814	.0769	.3998	
213.000	-.0699	-.1034	-.0814	.0535	.0307	-.1858
225.000	-.0144	-.0304	-.0991	.0828	.1632	
240.000	-.0334	-.0110	-.0952	.0847	.1285	-.1637
270.000	-.0911	-.0743	-.0459	.0828	.5498	-.1631
300.000	-.0572	-.0456	-.0298	.0199	.1392	-.1699
330.000	-.1072	-.0478	.0014	.0044	.1081	-.1793

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT43)

ALPHAT(2) = -4.816 BETAT (2) = .397

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5645	.5974	.6930	.7516	.7721	.1308	-.1204	-.1704	-.2250	-.2103	.0527	.0127	.0748	-.0223	-.1259
30.000		.6081	.6994	.7892	.5454	.1324	-.1165	-.1630	-.2173	-.2027	.0575	.0039	-.0757	-.1329	-.1043
60.000		.6408	.7360	.8242	.5484	.1568	-.0959	-.1507	-.2044	-.1653	.0617	.1262	-.4022	-.2632	-.1220
90.000		.6447	.7726	.8733	.6201	.1941	-.0757	-.1287	-.1854	.1497	.5315	.1052	-.394	-.2638	-.1826
120.000		.6671	.8177	.9325	.6848	.2335	-.0298	-.0859	-.1570	-.1446	.1772	.3808	-.042	-.0039	.0813
135.000			.8374	.9568	.7069	.2670	-.0065	-.0763	-.1474	-.1239	.1885	.1590	.2592	.1137	.0143
147.000		.6910	.8610	.9924	.7335	.2793	-.0158	-.0860	-.1271	-.1193	.1839	.2080	.3159	.1615	-.0917
162.000			.8778	1.0113	.7458	.2917	-.0045	-.0452	-.1190	-.1101	.1962	.1992	.3689	-.0663	-.0994
180.000	1.5645	.7309	.8994	1.0221	.7445	.3310	.0307	-.0823	-.1107	-.1085	.2123	.2245	.4184	.3122	-.0456
198.000			.9223	1.0189	.6416	.3408	.0446	-.0688	-.0987	-.0937	.1752	.2025	.3919	-.0844	-.0272
213.000		.7037	.9805	.9420	.0000	.0602	-.1446	.0005	-.1345	-.1361	.1037	.2352	.3270	.1193	.1145
225.000			.9803	1.0001	.6088	.2780	.0158	-.0862	-.1308	-.1022	.1846	.1924	.1406	.1093	.0263
240.000		.6761	.9687	.9567	.6611	.3073	-.0440	-.0681	-.1564	-.1334	.1930	.4430	-.0265	.0040	.0924
270.000		.6573	.8052	.9108	.6432	.2013	-.0666	-.1045	-.1784	.1153	.4835	.2628	-.5131	-.2461	-.1526
300.000		.6557	.7372	.8481	.5938	.1769	-.0909	-.1406	-.2057	-.1840	.0630	.1172	-.3146	-.2451	-.0894
330.000		.5770	.6819	.8004	.5625	.1464	-.1193	-.1677	-.2208	-.2019	.0517	.0000		-.1471	-.1211

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1282	-.0621	.0136	.0137	.0495	-.1899
30.000	-.0824	-.0598	.0019	.0073	.0793	-.1997
60.000	-.0505	-.0409	-.0437	.0153	.1751	-.1929
90.000	-.2007	-.0634	-.0488	.1012	.6630	-.1899
120.000	.0321	-.0230	-.0770	.0736	.3121	-.1776
135.000	.0592	-.0382	-.1135	.2389	.2965	
147.000	.0706	.0165	-.0598	.1866	.2563	-.2046
162.000	-.0669	.0540	-.0437	.1586	.3205	
180.000	-.0756	.0762	-.1169	.1474	.3141	-.2101
198.000	-.1237	-.0896	-.0559	.1204	.1884	
213.000	.0573	.0123	-.0472	.1275	.1147	-.2147
225.000	.0469	.0055	-.0795	.1439	.1637	
240.000	.0253	.0029	-.0775	.0891	.2365	-.1961
270.000	-.2772	-.0272	-.0385	.0845	.6296	-.1945
300.000	-.0537	-.0382	-.0466	.0130	.1907	-.1981
330.000	-.0760	-.0595	-.0060	-.0054	.0588	-.1994

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT43)

ALPHAT(2) = -4.754 BETAT (3) = 4.118

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5586	.6318	.6613	.7736	.8377	.1350	-.1180	-.1704	-.2236	-.2109	.0396	.0048	.0604	-.0519	-.1375
30.000		.5452	.6318	.7033	.5487	.1112	-.1329	-.1820	-.2320	-.2161	.0354	.0328	-.1179	-.0741	-.1410
60.000		.5348	.6441	.7040	.5126	.1005	-.1332	-.1804	-.2326	-.1067	.0275	.1704	-.3775	-.2261	-.0927
90.000		.6081	.6714	.7573	.5266	.1154	-.1273	-.1759	-.2204	.0841	.4752	.1470	-.364	-.2510	-.2310
120.000		.6195	.7268	.8168	.5835	.1512	-.0966	-.1493	-.2075	-.0068	.1120	.3923	.082.	.0707	.0381
135.000			.7547	.8652	.6118	.1883	-.0801	-.1351	-.1843	-.1741	.1327	.1363	.2189	.0723	-.0411
147.000		.6548	.7424	.9022	.6472	.2261	-.0603	-.1069	-.1691	-.1583	.1517	.2011	.2908	.1544	-.2039
162.000			.7779	.9460	.6852	.2707	-.0150	-.0818	-.1550	-.1428	.1491	.2040	.3165	-.2193	-.1249
180.000	1.5586	.6992	.8250	.9859	.7099	.3318	-.0063	-.0486	-.1288	-.1060	.1871	.2280	.5091	.3247	-.0170
198.000			.8904	1.0272	.6530	.3152	.0697	-.0644	-.0753	-.0653	.1949	.2513	.4489	-.0812	.0201
213.000		.7223	.9097	1.0471	.0000	.1275	-.1134	.0407	-.1024	-.1215	.1507	.2747	.3983	.1805	.1719
225.000			1.0195	1.0574	.7392	.3670	.0868	-.0402	-.0675	-.0472	.2087	.2449	.0401	.1443	.0874
240.000		.7511	.9405	1.0532	.7909	.4054	.0280	-.0128	-.0975	-.0699	.2639	.3794	-.0835	.0294	.2037
270.000		.7544	.8770	1.0109	.7584	.3094	.0060	-.0363	-.1185	.2010	.5800	.3398	-.4200	-.2284	-.1059
300.000		.6956	.8279	.9251	.6836	.2547	-.0348	-.0924	-.1626	-.1402	.1494	.1152	-.3155	-.2390	-.1066
330.000		.6629	.7321	.8425	.5980	.1831	-.0833	-.1350	-.1987	-.1854	.0729	.0000		-.2052	-.1032

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1309	-.0784	-.0046	.0166	.0451	-.1834
30.000	-.1132	-.0482	-.0007	.0494	.1244	-.1886
60.000	-.0652	-.0346	-.0107	.0898	.1805	-.1942
90.000	-.0939	-.0896	-.0557	.1376	.5734	-.1685
120.000	-.0218	-.0123	-.1216	.1431	.1892	-.1854
135.000	.0121	-.0544	-.1051	.1681	.2389	
147.000	.0111	-.0434	-.1129	.1857	.1743	-.1792
162.000	-.0717	-.0233	-.1737	.1569	.2165	
180.000	-.1016	.0095	-.1840	.1258	.3443	-.1994
198.000	-.2914	-.1216	-.0535	.0725	.4225	
213.000	.1297	.0239	-.0063	.1004	.2223	-.2039
225.000	.1232	.0504	-.0385	.1373	.2700	
240.000	.0994	.0378	-.0275	.0802	.2788	-.2046
270.000	-.2221	-.0301	-.0237	.0159	.7417	-.2023
300.000	-.0810	-.0395	-.0211	.0005	.2278	-.2059
330.000	-.0620	-.0786	-.0469	-.0239	.0810	-.2143

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT43)

ALPHAT(3) = -2.580 BETAT (1) = .395

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5693	.8572	.7684	.8430	.8701	.1691	-.0952	-.1456	-.2040	-.1920	.0760	.0050	.0959	-.0043	-.1031
30.000		.6799	.7644	.8554	.6090	.1762	-.0956	-.1410	-.1979	-.1841	.0844	.0376	-.1076	-.0843	-.0935
60.000		.6967	.7774	.8662	.5986	.1785	-.0766	-.1352	-.1969	-.1706	.0889	.2049	-.3557	-.2360	-.0970
90.000		.6977	.7881	.8946	.6301	.1977	-.0683	-.1268	-.1824	.1543	.5474	.1722	-.325	-.2615	-.2247
120.000		.7026	.8036	.9204	.6648	.2158	-.0439	-.1023	-.1647	-.1572	.1527	.3090	-.1286	-.0240	.0464
135.000			.8095	.9437	.6622	.2386	-.0376	-.0900	-.1631	-.1447	.1627	.1499	.2133	.0705	-.0305
147.000		.7084	.8214	.9590	.6879	.2441	-.0393	-.0997	-.1493	-.1391	.1611	.1832	.2527	.1265	-.1131
162.000			.8256	.9695	.6957	.2382	-.0373	-.0791	-.1451	-.1394	.1640	.1793	.3351	-.0508	-.1165
180.000	1.5693	.7243	.8417	.9773	.6937	.2746	-.0031	-.0933	-.1399	-.1440	.1759	.1948	.3894	.2655	-.0671
198.000			.8531	.9793	.5843	.2960	.0095	-.1010	-.1245	-.1207	.1417	.1664	.3577	-.0840	-.0395
213.000		.7171	.8891	.9368	.0000	.0332	-.1614	-.0273	-.1567	-.1621	.0699	.2217	.2939	.0987	.0846
225.000			.9162	.9702	.5862	.2678	.0005	-.1074	-.1463	-.1201	.1482	.1560	.0722	.0710	.0014
240.000		.7126	.8384	.9591	.6538	.2850	-.0528	-.0897	-.1650	-.1421	.1598	.3611	-.1124	-.0475	.0733
270.000		.7116	.8145	.9312	.6577	.2074	-.0654	-.1110	-.1706	.1141	.4939	.2792	-.3773	-.1983	-.1874
300.000		.6935	.7785	.8977	.6324	.2067	-.0709	-.1216	-.1890	-.1739	.0944	.2097	-.2718	-.1977	-.1051
330.000		.6734	.7560	.8672	.6100	.1801	-.0890	-.1315	-.2031	-.1830	.0821	.0000		-.1109	-.0924

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1223	-.0613	.0096	.0178	.0470	-.1794
30.000	-.0680	-.0577	.0012	.0233	.0998	-.1872
60.000	-.0336	-.0176	-.0366	.0188	.1418	-.1800
90.000	-.1750	-.0650	-.0508	.1348	.6793	-.1761
120.000	.0210	-.0178	-.0727	.1329	.3382	-.1687
135.000	.0413	-.0295	-.1008	.2584	.3098	
147.000	.0529	.0228	-.0366	.2091	.2842	-.1989
162.000	-.0924	.0602	-.0590	.1889	.3059	
180.000	-.1480	.0593	-.0973	.1729	.2664	-.2037
198.000	-.1390	-.0963	-.0340	.1498	.1787	
213.000	.0130	.0031	-.0327	.1572	.1441	-.2093
225.000	.0217	-.0088	-.0551	.1671	.1972	
240.000	.0027	-.0220	-.0680	.1192	.2541	-.1868
270.000	-.2628	-.0124	-.0349	.0923	.6295	-.1872
300.000	-.0336	-.0246	-.0385	.0110	.1716	-.1859
330.000	-.0664	-.0563	.0008	.0038	.0834	-.1907

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT43)

ALPHAT(4) = -.318 BETAT (1) = -6.119

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5635	.6009	.7248	.8882	.8105	.2070	-.0679	-.1219	-.1854	-.1764	.0856	-.0005	.0577	-.0255	-.0908
30.000		.7342	.6873	.9657	.6742	.2794	-.0161	-.0761	-.1439	-.1354	.1478	.0669	-.1083	-.1690	-.0724
60.000		.7860	.6980	1.0307	.7135	.3395	.0248	-.0383	-.1124	-.0971	.2299	.2405	-.3198	-.1764	-.0644
90.000		.8125	.6967	1.0601	.8102	.3593	.0396	-.0260	-.0947	.2582	.6862	.2164	-.291	-.2180	-.1902
120.000		.7963	.6841	1.0326	.7914	.3268	.0308	-.0347	-.1111	-.0977	.2302	.1951	-.2441	-.0175	.0155
135.000			.6711	1.0085	.7576	.3174	.0115	-.0551	-.1265	-.1066	.1790	.2200	-.0843	.0790	.0299
147.000		.7572	.6753	.9800	.7365	.3070	-.0141	-.0651	-.1294	-.1285	.1632	.1217	.2362	.2312	.0277
162.000			.6782	.9448	.7008	.2645	-.0218	-.0921	-.1681	-.1436	.1384	.1880	.3763	-.0465	-.1471
180.000	1.5635	.7080	.6902	.8977	.6998	.1736	-.0780	-.0998	-.1841	-.1699	.1030	.1582	.4759	.2672	-.0869
198.000			.7118	.8510	.5749	.2515	-.1138	-.1333	-.2096	-.1755	.0843	.1476	.3145	-.2444	.0032
213.000		.6430	.7527	.6687	.0000	-.0740	-.2482	-.1211	-.2237	-.0990	.0366	.1453	.2335	-.0233	-.0798
225.000			.7334	.7885	.4083	.1291	-.1038	-.1903	-.2240	-.1158	.0950	.0548	.1247	.0064	-.0682
240.000		.5983	.6867	.7560	.4956	.1337	-.1426	-.1719	-.2398	.0063	.0763	.2899	-.0726	-.0087	-.0611
270.000		.5423	.6667	.7041	.5135	.1051	-.1342	-.1854	-.2309	.0606	.4752	.1948	-.2248	-.1741	-.1246
300.000		.5776	.6661	.7518	.5291	.1138	-.1335	-.1780	-.2302	-.1755	.0560	.3578	-.1658	-.1332	-.0354
330.000		.5980	.7118	.8141	.5612	.1421	-.1080	-.1581	-.2122	-.1985	.0544	.0000		-.0460	-.1034

X/LT	.5528	.6340	.7423	.8505	.9264	.9838
PHI						
.000	-.0848	-.0884	-.0347	.0348	.0813	-.1752
30.000	-.0089	-.0443	-.0340	-.0228	.0708	-.1713
60.000	-.0263	-.0266	-.0072	.0148	.2383	-.1618
90.000	-.2130	-.0395	-.0001	.0148	.7002	-.1706
120.000	.0917	.0257	.0363	.1294	.5895	-.1843
135.000	.0658	-.0053	-.0218	.3334	.5986	
147.000	.0464	.0276	.0509	.3053	.6186	-.2096
162.000	-.1529	.0228	-.0350	.3418	.6144	
180.000	-.1099	-.0537	-.0099	.2954	.5452	-.1966
198.000	-.1336	-.0499	.0287	.1922	.4339	
213.000	-.1911	-.1467	.0004	.1707	.0855	-.2064
225.000	-.0613	-.0747	.0184	.2004	.2525	
240.000	-.0497	-.0605	.0592	.1943	.2279	-.1804
270.000	-.1368	-.0905	.0707	.1253	.6180	-.1814
300.000	-.0417	-.0382	.0480	.0807	.2063	-.1804
330.000	-.0886	-.0569	-.0051	.0716	.1279	-.1911

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT43)

ALPHAT(4) = -.322 BETAT (2) = -3.994

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.5645	.5952	.7935	.8959	.8528	.2128	-.0666	-.1202	-.1799	-.1697	.1038	-.0217	.0825	-.0048	-.0798
30.000		.6737	.8211	.9461	.6948	.2594	-.0328	-.0891	-.1525	-.1424	.1429	.0606	-.0709	-.1395	-.0750
60.000		.7006	.8477	.9908	.7420	.2919	-.0080	-.0655	-.1331	-.1226	.1818	.2408	-.3195	-.1970	-.0686
90.000		.7044	.8595	1.0083	.7564	.3025	.0030	-.0594	-.1267	.2206	.6384	.2194	-.252	-.2536	-.2169
120.000		.7044	.8538	.9921	.7458	.2871	-.0018	-.0661	-.1366	-.1213	.1793	.1938	-.234[illegible]	-.0327	-.0179
135.000			.8409	.9782	.7234	.2906	-.0165	-.0731	-.1373	-.1287	.1582	.2220	-.0292	.0958	-.0157
147.000		.6868	.8284	.9627	.7112	.2816	-.0200	-.0738	-.1468	-.1453	.1541	.1293	.2916	.1952	-.0220
162.000			.8155	.9394	.6919	.2443	-.0360	-.1044	-.1605	-.1486	.1340	.1835	.3743	-.0877	-.1806
180.000	1.5645	.6647	.8094	.9024	.6659	.1916	-.0475	-.0990	-.1844	-.1613	.1218	.1521	.4530	.2655	-.0605
198.000			.8013	.8761	.5554	.2623	-.0731	-.1261	-.1796	-.1674	.1059	.1537	.2814	-.1941	.0162
213.000		.6528	.8590	.7439	.0000	-.0402	-.2107	-.0907	-.2032	-.1798	.0539	.1518	.2383	.0277	-.0128
225.000			.8016	.8460	.4614	.1719	-.0738	-.1650	-.2045	-.1681	.1113	.0905	.1120	.0153	-.0579
240.000		.5955	.7015	.8261	.5509	.1697	-.1147	-.1532	-.2204	-.1512	.0899	.3128	-.1168	-.0220	-.0271
270.000		.5891	.6817	.7702	.5657	.1375	-.1115	-.1659	-.2156	.0652	.4527	.2124	-.2590	-.2093	-.1037
300.000		.5714	.6512	.8174	.5795	.1536	-.1115	-.1580	-.2133	-.1951	.0797	.3295	-.1839	-.1487	-.0431
330.000		.6051	.7718	.8521	.6012	.1671	-.0891	-.1404	-.2022	-.1870	.0737	.0000		-.0434	-.0972

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0909	-.0571	-.0152	-.0068	.0693	-.1611
30.000	-.0306	-.0443	-.0152	-.0052	.0600	-.1756
60.000	-.0325	-.0147	-.0331	-.0020	.1929	-.1595
90.000	-.2273	-.0114	-.0216	-.0157	.7417	-.1614
120.000	.0510	.0155	.0113	.0936	.4901	-.1572
135.000	.0360	-.0450	-.0370	.3292	.4746	
147.000	.0169	.0149	.0117	.2698	.4650	-.2159
162.000	-.0826	.0590	-.0690	.2834	.5247	
180.000	-.1715	.0209	-.0307	.2472	.5042	-.1927
198.000	-.1626	-.0805	-.0330	.1626	.4082	
213.000	-.1380	-.0904	-.0237	.1349	.1335	-.2024
225.000	-.0456	-.0575	-.0237	.1524	.2272	
240.000	-.0507	-.0517	-.0425	.1634	.2128	-.1614
270.000	-.1266	-.0629	-.0167	.0950	.5517	-.1637
300.000	-.0370	-.0379	-.0103	.0397	.2009	-.1624
330.000	-.0778	-.0456	-.0119	.0089	.1008	-.1647

ARC97-019 IA81 LVAP(ALLML SEALED) EXTERNAL TANK (RETT43)

ALPHAT(4) = -.326 BETAT (3) = -1.796

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2564	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5669	.6887	.8106	.9114	.8767	.2070	-.0618	-.1153	-.1767	-.1653	.1133	-.0234	.1034	.0158	-.0754
30.000		.7150	.8173	.9305	.6710	.2359	-.0475	-.1031	-.1678	-.1581	.1257	.0609	-.0585	-.0949	-.0754
60.000		.7211	.8253	.9486	.6874	.2479	-.0402	-.0974	-.1643	-.1490	.1385	.2543	-.3183	-.2017	-.0798
90.000		.7258	.8314	.9561	.6948	.2491	-.0360	-.0968	-.1614	.1845	.5994	.2328	-.264[illegible]	-.2449	-.2292
120.000		.7243	.8275	.9496	.6925	.2433	-.0389	-.0980	-.1608	-.1412	.1382	.2080	-.216[illegible]	-.0274	-.0578
135.000			.8256	.9489	.6822	.2535	-.0392	-.0936	-.1602	-.1549	.1401	.1747	.0549	.0660	-.0594
147.000		.7233	.8253	.9457	.6839	.2491	-.0357	-.0980	-.1697	-.1490	.1433	.1352	.2925	.1419	-.0632
162.000			.8233	.9369	.6726	.2211	-.0587	-.1161	-.1598	-.1614	.1289	.1459	.3708	-.0757	-.1973
180.000	1.5669	.7243	.8271	.9227	.6575	.2173	-.0350	-.1136	-.1755	-.1656	.1372	.1596	.3474	.2479	-.0680
198.000			.8271	.9104	.5392	.2613	-.0414	-.1270	-.1608	-.1510	.0992	.1573	.2793	-.1192	.0475
213.000		.7160	.8502	.8420	.0000	-.0185	-.1940	-.0705	-.1863	-.1880	.0491	.1695	.2437	.0585	.0402
225.000			.8417	.9053	.5148	.2115	-.0459	-.1433	-.1773	-.1539	.1174	.1143	.0592	.0341	-.0524
240.000		.6778	.7698	.8944	.5971	.2092	-.0840	-.1308	-.1965	-.1750	.1136	.3143	-.1541	-.0160	-.0202
270.000		.6919	.7575	.8670	.6148	.1816	-.0814	-.1442	-.1955	.0831	.4525	.2466	-.2839	-.2317	-.1520
300.000		.6789	.7488	.8699	.6170	.1977	-.0817	-.1321	-.1913	-.1789	.1053	.2985	-.2017	-.1628	-.0765
330.000		.6685	.7737	.8992	.6327	.1890	-.0589	-.1238	-.1864	-.1726	.0957	.0000		-.0364	-.0555

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0970	-.0523	-.0037	.0086	.0427	-.1680
30.000	-.0370	-.0431	-.0104	.0213	.0935	-.1715
60.000	-.0303	-.0211	-.0210	.0319	.1571	-.1615
90.000	-.2453	-.0293	-.0345	.1880	.7179	-.1683
120.000	.0166	-.0111	-.0361	.1377	.3760	-.1654
135.000	.0255	-.0389	-.0562	.2350	.4216	
147.000	.0258	.0024	-.0104	.2236	.4589	-.2090
162.000	-.1056	.0832	.0102	.2550	.4508	
180.000	-.2061	.0526	-.0664	.2277	.3814	-.2054
198.000	-.1579	-.0838	-.0342	.1511	.2847	
213.000	-.0989	-.0476	-.0167	.1495	.1462	-.2003
225.000	-.0335	-.0431	-.0326	.1746	.1957	
240.000	-.0333	-.0466	-.0422	.1548	.2121	-.1644
270.000	-.1400	-.0530	-.0234	.0716	.5007	-.1619
300.000	-.0214	-.0281	-.0045	.0355	.1741	-.1670
330.000	-.0747	-.0501	-.0048	.0052	.1114	-.1722

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT43)

ALPHAT(4) = -.318 BETAT (4) = .369

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5697	.7147	.8125	.9186	.9279	.2134	-.0610	-.1149	-.1776	-.1667	.1162	-.0076	.1231	.0208	-.0724
30.000		.7127	.8116	.9066	.6448	.2131	-.0664	-.1184	-.1734	-.1625	.1181	.0712	-.1174	-.0398	-.0740
60.000		.7438	.7886	.9044	.6406	.2047	-.0540	-.1145	-.1782	-.1612	.1213	.3029	-.3067	-.1927	-.0702
90.000		.7530	.7921	.9053	.6400	.2034	-.0631	-.1219	-.1801	.1582	.5588	.2350	-.261	-.2361	-.2217
120.000		.7569	.7927	.9024	.6441	.1996	-.0577	-.1139	-.1747	-.1605	.1235	.2472	-.179.	-.0194	-.0698
135.000			.7905	.9131	.6422	.2137	-.0622	-.1024	-.1766	-.1647	.1327	.1513	.1356	.0552	-.0874
147.000		.7553	.7921	.9215	.6483	.2143	-.0587	-.1133	-.1719	-.1563	.1378	.1789	.2194	.1179	-.1166
162.000			.7894	.9286	.6509	.1938	-.0695	-.1105	-.1741	-.1615	.1388	.1807	.2709	-.1008	-.1049
180.000	1.5697	.7476	.7958	.9321	.6438	.2256	-.0366	-.1222	-.1671	-.1696	.1388	.1599	.3939	.2486	-.0749
198.000			.8084	.9392	.5325	.2525	-.0251	-.1299	-.1509	-.1446	.1146	.1398	.3515	-.0934	-.0667
213.000		.7361	.8268	.9208	.0000	.0073	-.1790	-.0557	-.1776	-.1832	.0528	.2095	.2874	.0917	.0698
225.000			.8520	.9350	.5755	.2618	-.0226	-.1260	-.1599	-.1333	.0958	.1337	.0062	.0317	-.0288
240.000		.7492	.8155	.9398	.6505	.2493	-.0558	-.1159	-.1715	-.1501	.1385	.2718	-.1876	-.0084	-.0355
270.000		.7671	.8084	.9430	.6733	.2233	-.0555	-.1165	-.1667	.1271	.5120	.2721	-.2744	-.2306	-.1918
300.000		.7674	.8075	.9318	.6682	.2400	-.0612	-.1076	-.1670	-.1566	.1286	.2920	-.2173	-.1720	-.0794
330.000		.7607	.8052	.9276	.6615	.2192	-.0539	-.1105	-.1780	-.1621	.1158	.0000		-.0667	-.0717

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1000	-.0475	.0030	.0247	.0425	-.1699
30.000	-.0555	-.0462	-.0082	.0295	.1294	-.1837
60.000	-.0262	-.0227	-.0104	.0435	.2054	-.1674
90.000	-.2241	-.0739	-.0608	.1104	.6230	-.1654
120.000	.0177	-.0353	-.0573	.1830	.3752	-.1567
135.000	.0260	-.0561	-.0582	.3523	.3317	
147.000	.0241	-.0136	-.0111	.2755	.3124	-.2239
162.000	-.1223	.0559	-.0631	.2391	.2993	
180.000	-.1901	.0499	-.0602	.2226	.2528	-.2140
198.000	-.1722	-.1027	.0088	.2035	.1961	
213.000	-.0290	-.0155	-.0017	.2095	.1874	-.2079
225.000	-.0055	-.0133	-.0411	.2153	.2438	
240.000	-.0023	-.0245	-.0462	.1605	.2858	-.1715
270.000	-.2123	-.0305	-.0335	.0794	.5948	-.1751
300.000	-.0166	-.0114	-.0026	.0266	.1631	-.1706
330.000	-.0510	-.0411	.0034	.0231	.1155	-.1735

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT43)

ALPHAT(4) = -.280 BETAT (5) = 2.555

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5549	.6622	.8362	.9073	.9251	.2143	-.0627	-.1133	-.1738	-.1607	.1183	-.0166	.1190	.0109	-.0776
30.000		.6596	.8036	.8677	.6112	.1960	-.0798	-.1270	-.1842	-.1701	.1037	.0719	-.0519	-.0286	-.0890
60.000		.6724	.7436	.8445	.5844	.1720	-.0842	-.1388	-.1992	-.1785	.0983	.3273	-.2936	-.1770	-.0516
90.000		.7047	.7573	.8226	.5728	.1659	-.0910	-.1468	-.2042	-.1165	.5204	.2474	-.263	-.2257	-.2201
120.000		.7078	.7535	.8374	.5850	.1602	-.0914	-.1401	-.1963	-.1750	.0948	.2522	-.158[illegible]	-.0159	-.0716
135.000			.7592	.8593	.5872	.1733	-.0780	-.1363	-.1995	-.1756	.1138	.1040	.1918	.0627	-.1265
147.000		.7158	.7624	.8741	.6029	.1775	-.0802	-.1353	-.1836	-.1776	.1215	.1749	.2573	.1624	-.2106
162.000			.7726	.8922	.6112	.1762	-.0729	-.1157	-.1855	-.1689	.1189	.1663	.2569	-.2120	-.1204
180.000	1.5549	.7158	.7865	.9131	.6116	.2280	-.0522	-.1154	-.1709	-.1579	.1103	.1433	.4343	.2556	-.0855
198.000			.8010	.9421	.5165	.2408	-.0038	-.1316	-.1395	-.1336	.1138	.1880	.3708	-.1117	-.0678
213.000		.7334	.8161	.9318	.0000	.0389	-.1726	-.0302	-.1674	-.1766	.0655	.1953	.3211	.1117	.0942
225.000			.8780	.9552	.6240	.3071	.0073	-.1020	-.1287	-.1168	.1313	.1493	-.0458	.0507	.0081
240.000		.7710	.8422	.9718	.6915	.2780	-.0213	-.0959	-.1413	-.1313	.1599	.2461	-.2085	-.0046	-.0094
270.000		.7707	.8377	.9905	.7181	.2674	-.0226	-.0855	-.1452	.1577	.5563	.2982	-.3148	-.2128	-.1798
300.000		.7685	.8432	.9570	.7075	.2748	-.0302	-.0852	-.1481	-.1365	.1513	.2739	-.2238	-.1706	-.0760
330.000		.7449	.8310	.9408	.6765	.2386	-.0411	-.0976	-.1652	-.1478	.1389	.0000		-.1074	-.0662

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1034	-.0570	-.0109	.0243	.0747	-.1633
30.000	-.0726	-.0538	-.0077	.0224	.0938	-.1765
60.000	-.0370	-.0291	-.0083	.0449	.2118	-.1620
90.000	-.1884	-.0801	-.0782	.0719	.5253	-.1594
120.000	-.0040	-.0434	-.0597	.1691	.2306	-.1684
135.000	.0249	-.0583	-.0619	.2119	.2578	
147.000	.0011	.0028	-.0648	.2207	.2134	-.1909
162.000	-.1507	.0414	-.1247	.2144	.1792	
180.000	-.1421	-.0025	-.1278	.2071	.2808	-.2037
198.000	-.2659	-.1633	-.0195	.1550	.3594	
213.000	.0408	-.0004	-.0015	.1982	.2770	-.2111
225.000	.0217	.0099	-.0421	.2019	.3096	
240.000	.0151	-.0137	-.0415	.1664	.2728	-.1806
270.000	-.2446	-.0227	-.0100	.1609	.6784	-.1803
300.000	-.0205	-.0160	-.0249	.0097	.1840	-.1765
330.000	-.0386	-.0421	-.0170	.0090	.0830	-.1825

ARC97-019 1A81 LVAP(ALLML SEALED) EXTERNAL TANK (RETT43)

ALPHAT(4) = -.257 BETAT (6) = 4.086

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2584	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5455	.5854	.8309	.8928	.8377	.2159	-.0597	-.1124	-.1784	-.1678	.1081	-.0035	.1051	-.0099	-.0880
30.000		.6119	.7758	.8348	.5835	.1753	-.0933	-.1449	-.1998	-.1849	.0838	.0722	-.0232	-.0380	-.1077
60.000		.5752	.6606	.7933	.5512	.1367	-.1164	-.1615	-.2116	-.1374	.0770	.3414	-.2873	-.1535	-.0422
90.000		.6128	.6929	.7469	.5384	.1293	-.1265	-.1714	-.2218	.1104	.5288	.2695	-.269	-.2138	-.1783
120.000		.5930	.6791	.7813	.5496	.1296	-.1153	-.1609	-.2164	-.1092	.0763	.2321	-.130	-.0428	-.0785
135.000			.6919	.8113	.5483	.1440	-.1074	-.1637	-.2145	-.1901	.1043	.0683	.1688	.0543	-.1764
147.000		.6549	.7078	.8310	.5655	.1482	-.1086	-.1545	-.1977	-.1914	.1097	.1668	.2411	.1261	-.2410
162.000			.7324	.8577	.5825	.1654	-.0815	-.1330	-.2002	-.1826	.0909	.1531	.2560	-.2236	-.1624
180.000	1.5455	.6517	.7697	.8938	.5867	.2354	-.0710	-.1117	-.1828	-.1632	.1141	.1652	.4251	.2421	-.0905
198.000			.8039	.9356	.4997	.2278	-.0029	-.1260	-.1368	-.1238	.1338	.1905	.3666	-.0753	.0223
213.000		.6900	.8142	.9263	.0000	.0354	-.1860	-.0274	-.1647	-.1775	.0770	.1934	.2790	.1284	.0962
225.000			.9179	.9765	.6756	.3505	.0210	-.0748	-.1028	-.0924	.1713	.1908	-.1075	.0523	.0655
240.000		.7321	.9173	.9966	.7376	.3198	.0162	-.0692	-.1102	-.1063	.2021	.2359	-.2249	-.0076	.0322
270.000		.7467	.9344	1.0219	.7763	.3185	.0182	-.0486	-.1109	.1941	.6075	.3358	-.3235	-.2041	-.1510
300.000		.7286	.9086	1.0001	.7561	.3208	.0064	-.0505	-.1209	-.1089	.1941	.2747	-.2281	-.1704	-.0616
330.000		.7110	.8654	.9528	.7027	.2693	-.0217	-.0791	-.1497	-.1330	.1602	.0000		-.1481	-.0535

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0887	-.0734	-.0208	.0086	.0798	-.1562
30.000	-.0823	-.0531	-.0077	.0430	.1170	-.1604
60.000	-.0442	-.0248	-.0023	.1004	.2527	-.1665
90.000	-.1367	-.0677	-.0543	.1121	.5914	-.1392
120.000	-.0282	-.0755	-.0447	.2252	.2216	-.1646
135.000	-.0009	-.0709	-.0064	.2417	.2882	
147.000	-.0381	-.0249	-.0202	.2534	.2344	-.1633
162.000	-.1771	-.0752	-.1558	.2344	.2399	
180.000	-.1800	-.0495	-.1670	.2176	.3449	-.2067
198.000	-.3126	-.1765	-.0232	.1701	.4713	
213.000	.0290	-.0135	.0055	.1894	.3401	-.2157
225.000	.0520	.0235	-.0451	.2085	.3753	
240.000	.0433	.0025	-.0099	.1679	.4041	-.1832
270.000	-.2325	-.0039	-.0251	.0696	.7220	-.1816
300.000	-.0219	-.0166	-.0458	.0194	.2248	-.1819
330.000	-.0314	-.0345	-.0372	-.0043	.0758	-.1903

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT43)

ALPHAT(4) = -.236 BETAT (7) = F.857

SECTION (1)EXTERNAL TANK PENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5571	.5390	.8074	.8811	.8351	.2015	-.0565	-.1116	-.1794	-.1655	.0951	.0015	.0755	-.0328	-.0993
30.000		.5509	.7639	.7894	.5541	.1451	-.1086	-.1566	-.2128	-.1979	.0598	.0671	-.0263	-.0477	-.1149
60.000		.5384	.6132	.7478	.5010	.0990	-.1327	-.1830	-.2376	-.0943	.0477	.3658	-.2703	-.1225	-.0358
90.000		.5416	.6483	.6884	.4837	.1025	-.1432	-.1919	-.2395	.0896	.5474	.2499	-.262	-.1823	-.1610
120.000		.5579	.6384	.7242	.4987	.0932	-.1307	-.1833	-.2433	-.0439	.0429	.2416	-.0761	-.0636	-.0981
135.000			.6607	.7591	.5022	.1083	-.1253	-.1795	-.2252	-.2170	.0871	.0525	.1362	.0375	-.1816
147.000		.6026	.6738	.7904	.5259	.1141	-.1215	-.1575	-.2147	-.2053	.0919	.1496	.2103	.0884	-.2410
162.000			.7113	.8249	.5448	.1544	-.0817	-.1461	-.2023	-.1976	.0814	.1519	.2358	-.2526	-.2115
180.000	1.5571	.6119	.7455	.8591	.5627	.2275	-.0791	-.1041	-.1905	-.1710	.0932	.1630	.4273	.2205	-.1629
198.000			.8130	.9346	.4878	.2086	-.0020	-.1137	-.1445	-.1176	.1355	.1716	.3744	-.0687	.0433
213.000		.6844	.7881	.9137	.0000	-.0025	-.2015	-.0219	-.1813	-.1804	.0910	.1972	.2222	.1345	.1208
225.000			.9253	.9964	.7109	.3890	.0347	-.0479	-.0859	-.0742	.1927	.1898	-.1304	.0268	.1105
240.000		.7454	.9614	1.0361	.7778	.3582	.0534	-.0409	-.0859	-.0855	.2411	.2307	-.2297	-.0196	.1016
270.000		.7735	.9789	1.0678	.8245	.3552	.0501	-.0142	-.0813	.2223	.5478	.3709	-.3242	-.1486	-.1032
300.000		.7502	.9409	1.0374	.7985	.3669	.0429	-.0158	-.0946	-.0836	.2424	.2716	-.2221	-.1657	-.0431
330.000		.7090	.859	.9550	.7282	.2874	-.0036	-.0632	-.1344	-.1176	.1679	.0000		-.1724	-.0716

X/LT	.9520	.8340	.7423	.8508	.9284	.9838
PHI						
.000	-.0703	-.0769	-.0086	.0471	.0765	-.1752
30.000	-.0910	-.1485	.0468	.0534	.1119	-.1710
60.000	-.0462	-.0015	.0555	.0717	.2166	-.1855
90.000	-.1047	-.0395	.0050	.1324	.6164	-.1630
120.000	-.0850	-.0328	-.0259	.2330	.3032	-.1819
135.000	-.0402	-.0743	.0028	.3007	.2942	
147.000	-.0520	-.0634	-.0061	.2959	.2160	-.1735
162.000	-.1291	-.0787	-.1951	.2719	.2112	
180.000	-.2113	-.0577	-.2222	.2453	.3450	-.2156
198.000	-.3342	-.2392	-.0459	.1793	.5471	
213.000	.0702	.0038	.0141	.2033	.3967	-.2297
225.000	.0948	.0671	-.0272	.2205	.4287	
240.000	.0807	.0353	.0293	.1771	.4718	-.1893
270.000	-.2047	-.0287	-.0526	.0481	.7106	-.1887
300.000	-.0228	-.0198	-.0345	.0255	.2476	-.1912
330.000	-.0259	-.0443	-.0520	.0059	.0947	-.1957

ARC97-319 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT43)

ALPHAT(51) = 1.927 BETAT (1) = .364

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5694	.6361	.8728	.9665	.9158	.2650	-.0323	-.0876	-.1516	-.1398	.1570	-.0351	.1465	.0426	-.0470
30.000		.6632	.8492	.9507	.6938	.2563	-.0434	-.0988	-.1538	-.1398	.1494	.1027	-.0499	-.0143	-.0556
60.000		.7181	.8049	.9239	.6641	.2266	-.0536	-.1007	-.1696	-.1340	.1548	.3803	-.2573	-.1390	-.0397
90.000		.7174	.7838	.8985	.6356	.1965	-.0603	-.1214	-.1842	.1508	.5444	.2062	-.237	-.2121	-.0575
120.000		.7142	.7765	.8727	.6180	.1738	-.0736	-.1309	-.1899	-.1712	.0922	.1650	-.229_	-.0992	-.1331
135.000			.7746	.8678	.6046	.1837	-.0915	-.1265	-.1918	-.1841	.1004	.1481	.0633	.0867	-.1208
147.000		.7133	.7694	.8711	.6046	.1811	-.0845	-.1475	-.1975	-.1767	.1080	.1590	.1985	.1170	-.1233
162.000			.7656	.8675	.6033	.1562	-.1010	-.1424	-.1991	-.1857	.1046	.1590	.2304	-.0776	-.1034
180.000	1.5694	.7139	.7627	.8633	.5946	.1757	-.0724	-.1506	-.1941	-.1922	.1023	.1418	.3719	.2121	-.0954
198.000			.7660	.8804	.4757	.2077	-.0584	-.1608	-.1776	-.1666	.0801	.1225	.3297	-.1002	-.0657
213.000		.7133	.7772	.8698	.0000	-.0079	-.2045	-.0865	-.2017	-.2032	.0265	.1740	.2681	.0787	.0458
225.000			.8017	.8876	.5707	.2407	-.0507	-.1459	-.1763	-.1524	.0791	.1079	-.0544	.0458	-.0575
240.000		.7187	.7963	.9004	.6385	.2022	-.0638	-.1379	-.1838	-.1679	.1030	.1896	-.2458	-.0385	-.1189
270.000		.7407	.8095	.9334	.6721	.2307	-.0485	-.1125	-.1805	.1154	.5018	.2770	-.2760	-.2220	-.0410
300.000		.7462	.8388	.9513	.6932	.2589	-.0424	-.1008	-.1634	-.1404	.1618	.3937	-.1574	-.1534	-.0337
330.000		.6985	.8617	.9663	.7066	.2560	-.0291	-.0834	-.1527	-.1414	.1497	.0000		-.0274	-.0672

X/LT	.9528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	-.0805	-.0247	-.0051	.0261	.0588	-.1596
30.000	-.0459	-.0294	-.0153	.0251	.0913	-.1789
60.000	.0042	-.0205	-.0198	.0678	.1506	-.1632
90.000	-.0199	-.0395	-.0280	.1287	.4595	-.1593
120.000	.0036	-.0293	-.0163	.2215	.3939	-.1696
135.000	-.0018	-.0624	-.0124	.3878	.3645	
147.000	-.0481	-.0420	.0022	.3269	.3393	-.2154
162.000	-.1531	-.0172	-.0538	.2934	.3046	
180.000	-.2084	.0031	-.0069	.2761	.2609	-.2048
198.000	-.1810	-.1158	.0533	.2480	.2169	
213.000	-.0811	-.0261	.0375	.2527	.2179	-.2051
225.000	-.0450	-.0220	-.0015	.2590	.2721	
240.000	-.0151	-.0169	-.0081	.1962	.3049	-.1689
270.000	-.0478	-.0433	-.0119	.0770	.4889	-.1725
300.000	.0026	-.0169	-.0015	.0484	.1478	-.1696
330.000	-.0383	-.0250	.0007	.0332	.1057	-.1750

DATE 09 OCT 75 IAB1B - PRESSURE SOURCE DATA TABULATION

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT43)

ALPHAT(6) = 3.541 BETAT (1) = -3.965

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	0644	.1294	.1944	.2106	.2323	2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5682	.5656	.8426	.9960	.9224	.3115	-.0002	-.0586	-.1269	-.1156	.1816	-.0180	.1247	.0442	-.0205
30.000		.7424	.8585	1.0391	.7651	.3502	.0267	-.0331	-.1025	-.0901	.2194	.1381	-.0391	-.0427	-.0329
60.000		.7673	.8317	1.0394	.7929	.3441	.0264	-.0363	-.1117	-.0966	.2333	.3848	-.2169	-.1433	-.0386
90.000		.7408	.7820	.9947	.7453	.2995	-.0064	-.0700	-.1349	.2142	.6028	.1834	-.276	-.1512	-.0345
120.000		.6904	.7670	.9165	.6765	.2220	-.0423	-.1024	-.1697	-.1575	.1311	.0551	-.284.	-.1449	-.1052
135.000			.7363	.8769	.6354	.1922	-.0697	-.1295	-.1910	-.1741	.0727	.1135	-.1417	.0523	-.0782
147.000		.6473	.7379	.8515	.6165	.1916	-.0916	-.1387	-.1944	-.1909	.0753	.0665	.1183	.2210	-.0424
162.000			.7244	.8200	.5990	.1718	-.0967	-.1577	-.2182	-.1951	.0651	.1095	.2635	.0545	-.1721
180.000	1.5682	.6211	.7151	.7891	.5865	.1072	-.1148	-.1574	-.2277	-.2080	.0797	.1160	.3194	.1819	-.0532
198.000			.7035	.7640	.4961	.1673	-.1155	-.1833	-.2119	-.1889	.0371	.1094	.2300	-.1035	.1018
213.000		.5554	.7598	.6797	.0000	-.0741	-.2389	-.1342	-.2353	-.2157	.0102	.1218	.1990	.0410	.0245
225.000			.7131	.7172	.4513	.1283	-.1053	-.1932	-.2199	-.1844	.0496	.0650	.0280	.0637	-.0890
240.000		.5541	.6443	.7210	.5198	.1196	-.1327	-.1821	-.2341	-.1839	.0432	.1751	-.2378	-.1059	-.0633
270.000		.5927	.6674	.7904	.5622	.1340	-.1139	-.1691	-.2293	.0525	.3914	.2131	-.2993	-.1521	.0163
300.000		.6131	.7463	.8508	.6057	.1907	-.0837	-.1361	-.2031	-.1844	.1075	.6692	-.0535	-.1225	-.0335
330.000		.5713	.8212	.9235	.6756	.2488	-.0442	-.1010	-.1624	-.1494	.1239	.0000		.0061	-.0652

X/LT	.5528	.6340	.7423	.8505	.9264	.9838
PHI						
.000	-.0560	-.0338	-.0074	-.0037	.0707	-.1438
30.000	.0046	.0081	.0111	.0385	.0710	-.1495
60.000	.0442	.0359	.0098	.0833	.1240	-.1309
90.000	.0461	.0340	.0133	.1348	.2204	-.1377
120.000	.0442	.0516	.0420	.2327	.5122	-.1470
135.000	-.0186	-.0169	.0133	.3849	.5703	
147.000	-.0097	-.0144	.0648	.3845	.6095	-.1787
162.000	-.0883	.0286	.0442	.3817	.5221	
180.000	-.1504	-.0815	.0115	.3441	.3938	-.1742
198.000	-.1301	-.0786	.0656	.2457	.3418	
213.000	-.1812	-.0649	.0584	.2175	.1537	-.1909
225.000	-.0561	-.0433	.0546	.2393	.2351	
240.000	-.0224	-.0411	.0514	.2223	.1946	-.1537
270.000	.0144	-.0360	.0353	.1681	.3143	-.1380
300.000	.0087	-.0229	.0014	.0733	.1780	-.1393
330.000	-.0550	-.0299	-.0189	.0226	.0858	-.1399

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT43)

ALPHAT(6) = 3.554 BETAT (2) = .381

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5626	.5874	.9387	1.0109	1.0040	.3101	.0041	-.0547	-.1257	-.1145	.1965	-.0314	.1739	.0694	-.0170
30.000		.6204	.9136	.9872	.7524	.2968	-.0114	-.0714	-.1336	-.1183	.1769	.1397	.0121	.0103	-.0440
60.000		.6689	.8242	.9383	.6987	.2466	-.0350	-.0898	-.1601	-.1469	.1750	.4626	-.1951	-.1247	-.0387
90.000		.6629	.7792	.8794	.6250	.1927	-.0654	-.1265	-.1843	-.1392	.5229	.1632	-.274	-.1711	-.0195
120.000		.6600	.7364	.8299	.5818	.1422	-.0910	-.1490	-.2082	-.1796	.0649	.0808	-.2631	-.1364	-.1431
135.000			.7206	.8168	.5637	.1492	-.1198	-.1537	-.2079	-.2005	.0693	.1372	.0102	.0921	-.1321
147.000		.6420	.7073	.8126	.5644	.1498	-.1141	-.1657	-.2171	-.1941	.0816	.1369	.1872	.1231	-.1535
162.000			.6911	.7925	.5574	.1273	-.1274	-.1692	-.2199	-.2050	.0696	.1375	.2161	-.0420	-.1035
180.000	1.5626	.5321	.7020	.7778	.5424	.1377	-.1056	-.1742	-.2142	-.2114	.0680	.1331	.3801	.1771	-.1054
198.000			.6994	.8046	.4154	.1622	-.0872	-.1881	-.1978	-.1833	.0541	.1096	.3104	-.0840	-.0648
213.000		.6080	.7052	.7880	.0000	-.0306	-.2328	-.1160	-.2221	-.2211	.0027	.1464	.2462	.0908	.0299
225.000			.7413	.8334	.5694	.2257	-.0841	-.1610	-.1925	-.1694	.0589	.0865	-.1061	.0983	-.0513
240.000		.6727	.7585	.8504	.6272	.1577	-.0730	-.1484	-.2031	-.1864	.0690	.1134	-.2799	-.0900	-.0832
270.000		.6946	.8027	.9118	.6692	.2342	-.0569	-.1093	-.1828	.1056	.4793	.2718	-.3294	-.1608	.0088
300.000		.7107	.8731	.9649	.7165	.2701	-.0246	-.0829	-.1543	-.1366	.1826	.5033	-.0969	-.1655	-.0412
330.000		.6521	.9341	1.0033	.7527	.3006	-.0012	-.0590	-.1302	-.1146	.1861	.0000		.0079	-.0491

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0648	-.0202	-.0046	.0299	.0761	-.1589
30.000	-.0296	-.0142	-.0099	.0365	.0964	-.1697
60.000	.0333	-.0063	-.0096	.0910	.1250	-.1653
90.000	.0416	.0071	-.0208	.1486	.2544	-.1621
120.000	.0126	-.0128	.0055	.2375	.3470	-.1532
135.000	-.0123	-.0365	.0027	.4134	.3796	
147.000	-.0900	-.0270	.0147	.3651	.3676	-.1567
162.000	-.1542	-.0254	-.0393	.3345	.3118	
180.000	-.1756	.0112	.0274	.3204	.2740	-.1729
198.000	-.1645	-.0942	.0907	.2895	.2391	
213.000	-.0973	-.0090	.0703	.2898	.2188	-.1885
225.000	-.0523	-.0024	.0330	.2737	.2540	
240.000	.0065	.0100	.0274	.2055	.2363	-.1595
270.000	.0254	-.0005	.0261	.1358	.2236	-.1427
300.000	.0289	-.0017	.0082	.0822	.1040	-.1433
330.000	-.0372	-.0118	.0032	.0428	.0995	-.1554

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT43)

ALPHAT(6) = 3.599 BETAT (3) = 4.100

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5491	.5007	.9097	.9963	1.0498	.3174	.0097	-.0507	-.1178	-.1099	.1926	-.0030	.1458	.0406	-.0240
30.000		.4981	.8527	.9032	.7057	.2494	-.0423	-.1015	-.1656	-.1519	.1251	.1273	.0495	.0115	-.0612
60.000		.5612	.7038	.8143	.5899	.1718	-.0974	-.1505	-.2084	-.0935	.1141	.5132	-.1402	-.0921	-.0536
90.000		.5925	.6407	.7596	.5287	.1099	-.1328	-.1795	-.2239	.0666	.4595	.2134	-.235	-.1805	.0005
120.000		.5247	.6160	.6991	.5043	.0927	-.1448	-.1877	-.2305	-.1064	.0260	.1097	-.116.	-.1843	-.1586
135.000			.6334	.6866	.4936	.1070	-.1341	-.1827	-.2368	-.2100	.0721	.0729	.1252	.0537	-.2266
147.000		.5339	.6299	.6911	.5024	.0981	-.1423	-.1928	-.2305	-.2177	.0696	.1271	.2073	.0915	-.2392
162.000			.6210	.7394	.5069	.0781	-.1365	-.1725	-.2383	-.2197	.0586	.1230	.1946	-.1303	-.1192
180.000	1.5491	.5815	.6418	.7672	.5005	.1445	-.1309	-.1685	-.2324	-.2107	.0598	.1233	.3515	.1549	-.1126
198.000			.6767	.8207	.3711	.1366	-.0737	-.1833	-.1987	-.1734	.0507	.1198	.2698	-.0536	.0362
213.000		.6287	.6761	.7711	.0000	-.0810	-.2616	-.1035	-.2374	-.2254	.0129	.1335	.1149	.1200	.0962
225.000			.8024	.8716	.6285	.2996	-.0772	-.1090	-.1584	-.1394	.0907	.0808	-.1982	.0450	.0473
240.000		.6680	.8651	.9163	.6949	.2144	-.0141	-.0863	-.1699	-.1423	.1500	.0837	-.3097	-.1025	-.0338
270.000		.7199	.8981	.9991	.7710	.3237	.0163	-.0372	-.1192	.2042	.5763	.3262	-.3341	-.1436	.0198
300.000		.7554	.9531	1.0485	.8170	.3743	.0478	-.0158	-.0938	-.0733	.2595	.4270	-.1022	-.1721	-.0376
330.000		.7221	.9505	1.0476	.8131	.3622	.0468	-.0142	-.0893	-.0798	.2359	.0000		-.0514	-.0464

X/LT	.5528	.6340	.7423	.8506	.9264	.9839
PHI						
.000	-.0681	-.0404	-.0249	.0018	.0972	-.1499
30.000	-.0713	57	-.0236	.0469	.1099	-.1486
60.000	-.0117	.7816	.0023	.0930	.1767	-.1553
90.000	.0072	-.0297	.0150	.1668	.3344	-.1346
120.000	.0053	-.0385	.0301	.2653	.2320	-.1489
135.000	-.0209	-.0515	.0551	.2905	.2997	
147.000	-.1151	-.0199	.0494	.2951	.2577	-.1559
162.000	-.1910	-.0129	.0412	.2929	.2250	
180.000	-.1141	-.1306	.0198	.2933	.3395	-.1661
198.000	-.2675	-.2148	.0343	.2610	.5019	
213.000	-.0161	-.0192	.0449	.2980	.4288	-.1999
225.000	.0191	.0222	.0059	.2908	.4555	
240.000	.0406	.0276	.0163	.2476	.3779	-.1502
270.000	.0495	.0295	.0267	.1366	.1624	-.1365
300.000	.0444	.0244	.0078	.0911	.1099	-.1343
330.000	.0059	.0137	-.0099	.0303	.0838	-.1461

ARC97-019 IA81 LVAP(/LLHL SEALED) EXTERNAL TANK (RETT43)

ALPHAT(7) = 6.382 BETAT (1) = .406

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5619	.5708	.9634	1.0532	.9669	.3619	.0397	-.0207	-.0962	-.0849	.2388	-.0148	.2001	.0995	.0148
30.000		.5974	.9402	1.0129	.7781	.3375	.0185	-.0453	-.1031	-.0939	.2111	.1681	.0517	.0337	-.0204
60.000		.6519	.8230	.9421	.6959	.2688	-.0193	-.0772	-.1526	-.1382	.1950	.5343	-.1195	-.1115	-.0441
90.000		.6294	.7742	.8595	.6087	.1884	-.0754	-.1319	-.1920	.1310	.5015	.1437	-.306	-.2671	-.0091
120.000		.6028	.7133	.7786	.5439	.1182	- 1104	-.1651	-.2247	-.1510	.0359	.0028	-.201_	-.1658	-.1032
135.000			.6870	.7552	.5227	.1137	-.1389	-.1761	-.2260	-.2140	.0381	.1120	-.0234	.0522	-.1420
147.000		.6075	.6728	.7478	.5192	.1153	- 1404	-.1844	-.2332	-.2149	.0570	.1174	.1731	.1177	-.1983
162.000			.6396	.7267	.5138	.0943	-.1496	-.1897	-.2370	-.2207	.0507	.1202	.1990	.0157	-.1035
180.000	1.5619	.5597	.6451	.7049	.4957	.1023	-.1291	-.1935	-.2354	-.2262	.0488	.1208	.3886	.1376	-.1174
198.000			.6383	.7405	.3510	.1210	-.1117	-.2124	-.2197	-.2050	.0428	.0980	.2828	-.0825	-.0699
213.000		.5483	.6412	.7049	.0000	-.0725	-.2599	-.1406	-.2443	-.2365	-.0177	.1205	.2201	.0841	-.0015
225.000			.7004	.7715	.5611	.1976	-.1174	-.1749	-.2072	-.1850	.0295	.0500	-.1579	.0499	-.0664
240.000		.6344	.7661	.8089	.6080	.1325	-.0937	-.1554	-.2252	-.1928	.0384	.0394	-.2816	-.1892	-.0970
270.000		.6639	.8282	.8908	.6588	.2151	-.0706	-.1195	-.1795	.1037	.4500	.2552	-.3479	-.2225	.0 99
300.000		.6763	.9015	.9717	.7321	.2930	-.0052	-.0662	-.1392	-.1295	.1972	.6157	-.0398	-.1256	-.0551
330.000		.6170	.9844	1.0333	.7967	.3473	.0273	-.0350	-.1080	-.0907	.2205	.0000		.0318	-.0186

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0340	-.0075	.0046	.0202	.0638	-.1572
30.000	-.0141	.0010	-.0058	.0296	.1139	-.1616
60.000	.0432	.0000	-.0014	.0829	.2056	-.1670
90.000	.0145	-.0159	.0119	.2127	.4049	-.1693
120.000	-.0041	.0021	.0154	.2660	.3180	-.1543
135.000	-.0034	.0105	.0280	.4322	.4075	
147.000	-.0566	.0324	.0255	.4009	.4005	-.1508
162.000	-.1498	.0818	-.0167	.3761	.3319	
180.000	-.1740	.1098	.0662	.3542	.2901	-.1903
198.000	-.1413	-.0482	.1271	.3281	.2602	
213.000	-.1117	.0166	.1002	.3250	.2475	-.1957
225.000	-.0507	.0176	.0738	.3101	.2770	
240.000	.0003	.0144	.0610	.2517	.2520	-.1616
270.000	.0309	-.0213	.0334	.1974	.4129	-.1409
300.000	.0495	.0075	.0107	.0749	.2126	-.1428
330.000	-.0261	.0112	.0098	.0486	.1113	-.1597

ARC97-019 IA81 (VAPIALLHL SEALED) EXTERNAL TANK (RETTAN) (30 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAT(1) = -7.017 BETAT (1) = .064

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3901	.4445	.4987
PHI															
.000	1.6622	.2993	.3620	.5704	.5896	.1312	-.0727	-.1110	-.1480	-.1470	.0391	-.0835	.0507	.0360	-.0299
30.000		.3381	.3523	.6705	.5030	.1347	-.0625	-.1026	-.1399	-.1424	.0290	-.0100	-.0169	-.1106	-.1231
60.000		.3562	.3533	.7549	.5469	.1737	-.0390	-.0842	-.1281	-.1286	.0424	.1864	-.2729	-.2604	-.1279
90.000		.3752	.3361	.8673	.6220	.2311	-.0025	-.0530	-.0969	-.0755	.4171	.3416	-.2726	-.1691	-.0495
120.000		.3985	.3316	.9674	.7186	.2905	.0494	-.0045	-.0603	-.0595	.1975	.3568	.0833	.0829	.0383
135.000			.3384	1.0215	.7536	.3330	.0629	.0135	-.0352	-.0405	.1972	.2184	.2039	.2671	.0855
147.000		.4289	.3455	1.0550	.7898	.3673	.0872	.0378	-.0243	-.0264	.2205	.1981	.3251	.3345	.0765
162.000			.3505	1.0778	.8247	.3709	.0995	.0390	-.0102	-.0162	.2479	.1082	.3478	.0893	.1035
180.000	1.6622	.4515	.3739	1.0021	.8535	.3378	.1140	.0618	-.0189	-.0123	.2505	.0552	.4101	.5944	.1646
198.000			.3782	1.0635	.7575	.4350	.0907	.0502	-.0163	-.0178	.2343	.1906	.2948	.0813	.2951
213.000		.4024	.4271	.9019	.0000	.1373	-.0219	.0542	-.0291	-.0270	.1165	.1987	.3218	.2407	.2803
225.000			.5030	1.0249	.6549	.3492	.0878	.0017	-.0356	-.0215	.1780	.2278	.1980	.2392	.1074
240.000		.3448	.3585	.9575	.7199	.3051	.0355	-.0025	-.0521	-.0595	.1643	.2647	.1485	.1144	.0739
270.000		.3459	.3404	.8719	.6391	.2292	-.0059	-.0503	-.0994	-.1037	.3153	.5310	-.2350	-.1889	-.0556
300.000		.3355	.3492	.7568	.5347	.1645	-.0503	-.0837	-.1302	-.1211	.0398	.1851	-.1806	-.2799	-.1417
330.000		.3148	.3585	.6511	.4059	.1290	-.0590	-.1027	-.1470	-.1417	.0316	.0000		-.0980	-.1072

X/LT	.5528	.6340	.7423	.8586	.9264	.9838
PHI						
.000	-.1117	-.0754	-.0378	.0030	.0106	-.1468
30.000	-.0283	-.0591	-.0317	-.0146	.0424	-.1562
60.000	-.1727	-.0587	-.0198	-.0169	.1550	-.1598
90.000	-.0549	-.1233	-.0553	-.0220	.5201	-.1650
120.000	.1146	.0712	.0044	.0159	.2709	-.1609
135.000	.1018	.0252	.0054	.2308	.3054	
147.000	.1130	.0157	.0415	.1110	.2989	-.1844
162.000	.0735	.0315	.0438	.0458	.4137	
180.000	.0443	-.0065	.0393	.1168	.4302	-.1851
198.000	-.0356	-.0417	.0522	.0766	.3481	
213.000	.0321	.0267	.0361	.0824	.0892	-.2026
225.000	.1268	.0631	-.0027	.1046	.1563	
240.000	.1313	.0522	.0114	.0348	.2067	-.1604
270.000	-.0668	-.1027	-.0471	-.0238	.4551	-.1617
300.000	-.1554	-.0524	-.0076	-.0202	.1550	-.1627
330.000	-.0347	-.0599	-.0378	-.0153	.0589	-.1669

ARC97-C19 1AB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHAT(2) = -4.830 BETAT (1) = -4.341

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6678	.2741	.3769	.7227	.6110	.1549	-.0538	-.0929	-.1324	-.1358	.0405	-.0827	.0338	.0160	-.0382
30.000		.3782	.3798	.8102	.5738	.1979	-.0291	-.0733	-.1173	-.1139	.0736	.0113	.0058	-.1368	-.1404
60.000		.4027	.3586	.9172	.6504	.2585	.0107	-.0372	-.0833	-.0848	.1138	.2750	-.2338	-.2123	-.0988
90.000		.4169	.3498	1.0126	.7305	.3199	.0529	.0001	-.0468	-.0442	.5372	.4011	-.280	-.1946	-.0904
120.000		.4356	.3702	1.0643	.7835	.3513	.0877	.0330	-.0272	-.0272	.2422	.5959	.009	.0038	.0605
135.000			.3756	1.0803	.7874	.3646	.0951	.0378	-.0246	-.0226	.2289	.1886	.1838	.2295	.1172
147.000		.4430	.3776	1.0812	.7916	.3600	.0883	.0307	-.0221	-.0240	.2344	.1883	.2909	.3214	.1518
162.000			.3807	1.0817	.7815	.3638	.0813	.0372	-.0320	-.0357	.2283	.1451	.3410	.1852	.0711
180.000	1.6678	.4443	.3833	1.0207	.8571	.3122	.0516	.0177	-.0355	-.0485	.2030	.1738	.3250	.5170	.0640
198.000			.3933	.9870	.7964	.3513	.0178	.0033	-.0705	-.0842	.1725	.1548	.2751	.0157	.2079
213.000		.4282	.4138	.7139	.0000	.0562	-.0768	.0042	-.0811	-.0635	.0519	.1193	.2440	.1846	.1659
225.000			.4252	.8778	.5835	.2543	.0194	-.0564	-.0906	-.0776	.1034	.1416	.1281	.1627	.0278
240.000		.3779	.3553	.8294	.6533	.2065	-.0272	-.0644	-.1165	-.1109	.1118	.1693	.1159	.0464	.0089
270.000		.3253	.3575	.7402	.5418	.1678	-.0514	-.0939	-.1397	-.1174	.2202	.4859	-.3070	-.1651	-.0767
300.000		.2970	.3722	.6275	.5066	.1370	-.0681	-.1035	-.1501	-.1348	.0334	.1967	-.1298	-.2330	-.1023
330.000		.2921	.3836	.6507	.5075	.1360	-.0691	-.1054	-.1475	-.1401	.0262	.0000		-.0283	-.0553

X/LT	.5528	.6340	.7423	.8508	.9264	.9838
PHI						
.000	-.0992	-.0745	-.0518	-.0087	.0009	-.1496
30.000	-.0248	-.0271	-.0512	-.0434	-.0278	-.1451
60.000	-.0515	-.0835	-.0200	.0021	.1847	-.1748
90.000	-.0210	-.0910	.0108	-.0171	.6441	-.1759
120.000	.1631	.1094	.0477	.0784	.3057	-.1772
135.000	.0994	.0924	.0391	.2284	.3547	
147.000	.0728	.0779	.0699	.1214	.4115	-.1538
162.000	.0584	.0285	.0217	.0550	.5773	
180.000	-.0012	.0082	.0519	-.0097	.5118	-.1597
198.000	.0129	.0237	.0252	.0480	.4276	
213.000	-.1123	-.0814	-.0132	.0291	.0286	-.1755
225.000	.0446	.0137	-.0238	.0671	.1488	
240.000	.0914	.0063	-.0443	.0577	.0939	-.1616
270.000	-.1117	-.0467	-.0578	.0698	.5354	-.1639
300.000	-.0547	-.0602	-.0094	-.0054	.1978	-.1658
330.000	-.1168	-.0749	-.0261	-.0080	.0131	-.1571

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHAT(2) = -4.811 BETAT (2) = .032

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6581	.3005	.3843	.6819	.6774	.1608	-.0518	-.0911	-.1300	-.1303	.0605	-.0807	.0625	.0492	-.0129
30.000		.3314	.3811	.7417	.5446	.1740	-.0451	-.0849	-.1223	-.1222	.0667	.0174	-.0441	-.0775	-.0876
60.000		.3563	.3785	.7947	.5768	.1989	-.0201	-.0647	-.1121	-.1133	.0757	.2720	-.2391	-.2308	-.1084
90.000		.3630	.3714	.8760	.6336	.2406	.0063	-.0419	-.0874	-.0826	.4423	.3599	-.3011	-.1797	-.0921
120.000		.3753	.3953	.9494	.6839	.2732	.0436	-.0104	-.0675	-.0663	.1826	.4203	.0291	.0228	-.0119
135.000			.3898	.9930	.7042	.3012	.0481	-.0001	-.0506	-.0519	.1765	.1788	.1565	.2478	.0646
147.000		.3885	.3953	1.0151	.7503	.3244	.0591	.0137	-.0410	-.0454	.1995	.1885	.2860	.3087	.0605
162.000			.4056	1.0284	.7848	.3377	.0726	.0144	-.0378	-.0359	.2102	.1513	.2983	.0675	.0967
180.000	1.6581	.4052	.4140	1.0281	.8280	.2921	.0726	.0369	-.0419	-.0366	.2105	.1245	.3843	.5403	.1428
198.000			.4202	1.0148	.7396	.3803	.0668	.0209	-.0352	-.0379	.1859	.1374	.2783	.0424	.2931
213.000		.3724	.4683	.9613	.0000	.1179	-.0370	.0465	-.0470	-.0503	.0906	.1533	.2793	.2111	.2367
225.000			.5262	.9911	.6719	.3322	.0697	-.0147	-.0473	-.0330	.1716	.2172	.1552	.2088	.0890
240.000		.3414	.4075	.9566	.7406	.2755	.0272	-.0189	-.0669	-.0630	.1677	.2876	.0729	.0557	.0294
270.000		.3440	.3867	.8905	.6539	.2435	.0051	-.0429	-.0957	-.0944	.3415	.5382	-.2845	-.1959	-.0856
300.000		.3372	.3974	.7983	.5655	.1893	-.0329	-.0698	-.1176	-.1120	.0764	.2514	-.1485	-.2475	-.1170
330.000		.3095	.3926	.7316	.5464	.1628	-.0534	-.0864	-.1303	-.1209	.0534	.0000		-.0507	-.0786

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0930	-.0860	-.0375	.0044	.0113	-.1568
30.000	-.0443	-.0337	-.0298	-.0020	.0708	-.1584
60.000	-.0103	-.0552	-.0317	-.0103	.1996	-.1610
90.000	-.0587	-.1343	-.0388	-.0049	.6302	-.1538
120.000	.0911	.0557	-.0150	.0217	.2738	-.1542
135.000	.0750	.0123	-.0015	.2193	.2999	
147.000	.0638	-.0015	.0371	.1125	.2630	-.1840
152.000	.0494	-.0134	.0464	.1030	.4059	
180.000	.0183	-.0369	.0339	.1148	.3703	-.1882
198.000	-.0507	-.0555	.0387	.0804	.3067	
213.000	-.0119	-.0002	.0272	.0869	.1012	-.2037
225.000	.0798	.0458	-.0238	.1084	.1571	
240.000	.1125	.0342	-.0046	.0385	.2039	-.1551
270.000	-.0671	-.1257	-.0184	-.0151	.5488	-.1561
300.000	-.0658	-.1128	-.0087	-.0155	.1722	-.1574
330.000	-.0597	-.0375	-.0302	-.0142	.0348	-.1636

AR397-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHAT(2) = -4.814 BETAT (3) = 3.776

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2921	.3362	.3904	.4445	.4987
PHI															
.000	1.6695	.3166	.3768	.7205	.6525	.1567	-.0546	-.0935	-.1343	-.1317	.0507	-.0913	.0508	.0120	-.0460
30.000		.3137	.3649	.6241	.5152	.1420	-.0648	-.1009	-.1394	-.1398	.0310	.0213	-.0714	-.0207	-.0605
60.000		.3327	.3742	.6705	.5094	.1404	-.0671	-.1073	-.1439	-.1398	.0401	.2310	-.2294	-.2408	-.0906
90.000		.3479	.3649	.7338	.5236	.1570	-.0537	-.0922	-.1317	-.0743	.3204	.4175	-.318	-.1839	-.0790
120.000		.3620	.3556	.8165	.5925	.1902	-.0245	-.0714	-.1103	-.1095	.1061	.2364	.0751	.0294	-.0589
135.000			.3578	.8866	.6357	.2369	-.0040	-.0447	-.0953	-.0948	.1048	.1529	.1913	.2016	.0094
147.000		.3736	.3565	.9255	.6847	.2689	.0220	-.0306	-.0806	-.0776	.1320	.1426	.2577	.2987	.0033
162.000			.3678	.9700	.7392	.2775	.0332	-.0245	-.0547	-.0629	.1627	.1391	.2398	-.0133	.0597
180.000	1.6695	.3862	.3925	1.0144	.7907	.3154	.0849	.0128	-.0345	-.0447	.1902	.1584	.3645	.5077	.0254
198.000			.4346	1.0553	.6937	.3950	.1109	.0240	-.0070	-.0209	.2019	.1407	.3218	.0824	.2935
213.000		.3800	.4599	1.0547	.0000	.1854	-.0046	.0841	-.0198	-.0326	.1287	.1936	.3007	.2883	.2605
225.000			.5894	1.0772	.7724	.4331	.1221	.0332	-.0053	.0003	.1825	.1852	.1059	.2406	.1605
240.000		.4051	.4431	1.0688	.9288	.3560	.1013	.0281	-.0206	-.0225	.2391	.4204	.0390	.0257	.0587
270.000		.4090	.4161	1.0218	.7649	.3306	.0666	.0096	-.0505	- 0473	.4525	.5961	-.2601	-.2321	-.1130
300.000		.3755	.3937	.9267	.6660	.2650	.0156	-.0310	-.0854	-.0799	.1190	.2554	-.1512	-.2529	-.1085
330.000		.3514	.3914	.8278	.5840	.1998	-.0245	-.0652	-.1160	-.1146	.0728	.0000		-.1376	-.1412

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1057	-.0785	-.0463	-.0068	.0087	-.1629
30.000	-.0980	-.0657	-.0274	-.0033	.0478	-.1716
60.000	-.0145	-.0570	-.0120	.0012	.1865	-.1603
90.000	-.1047	-.0235	-.0495	-.0148	.6328	-.1544
120.000	.0326	.0099	-.0242	.0765	.0990	-.1454
135.000	.0492	-.0585	-.0123	.0952	.2191	
147.000	.0095	-.0219	-.0055	.0939	.1594	-.1577
162.000	-.0177	-.0650	-.0273	.1073	.3289	
180.000	-.0404	-.0758	-.0276	.0743	.4333	-.1690
198.000	-.1329	-.1542	.0541	.0779	.4888	
213.000	.0848	.0481	.0563	.1015	.2110	-.1697
225.000	.1129	.0786	.0067	.1532	.2331	
240.000	.1613	.0757	.0400	.0857	.2116	-.1791
270.000	-.0231	-.0852	.0169	-.0070	.6870	-.1736
300.000	-.0340	-.0932	-.0129	-.0044	.1796	-.1729
330.000	-.0311	-.0271	-.0526	-.0390	-.0199	-.1862

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHAT(3) = -2.596 BETAT (1) = .034

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6625	.3148	.4079	.7984	.7271	.1938	-.0305	-.0729	-.1161	-.1174	.0869	-.0740	.0698	.0633	.0030
30.000		.3338	.3924	.8085	.5971	.2038	-.0234	-.0684	-.1106	-.1090	.0944	.0409	-.0484	-.0234	-.0556
60.000		.3560	.3879	.8348	.6045	.2179	-.0036	-.0516	-.1036	-.1044	.1044	.3640	-.1998	-.2267	-.0823
90.000		.3541	.3837	.8761	.6296	.2467	.0066	-.0439	-.0914	-.0822	.4516	.3771	-.313	-.2136	-.0704
120.000		.3686	.3870	.9243	.6609	.2522	.0256	-.0233	-.0770	-.0909	.1611	.4423	-.0241	-.0530	-.0505
135.000			.3879	.9503	.6571	.2640	.0281	-.0217	-.0706	-.0662	.1507	.1366	.1389	.2020	.0380
147.000		.3712	.3876	.9795	.6819	.2826	.0268	-.0150	-.0635	-.0698	.1666	.1686	.2516	.2649	.0630
162.000			.3953	.9880	.7245	.2987	.0416	-.0132	-.0695	-.0503	.1711	.1570	.2890	.0661	.0694
180.000	1.6625	.3725	.4008	.9837	.8064	.2503	.0369	.0012	-.0703	-.0623	.1740	.1379	.3313	.5132	.1297
198.000			.4050	.9824	.7148	.3271	.0333	-.0110	-.0587	-.0639	.1358	.1169	.2604	.0511	.2444
213.000		.3483	.4389	.9080	.0000	.0966	-.0574	.0189	-.0687	-.0747	.0610	.1515	.2437	.2055	.1768
225.000			.5091	.9659	.6893	.3048	.0435	-.0360	-.0642	-.0535	.1403	.1644	.1143	.1919	.0707
240.000		.3354	.4171	.9497	.7564	.2423	.0185	-.0376	-.0802	-.0734	.1556	.3100	.0125	-.0143	-.0092
270.000		.3460	.4115	.8961	.6425	.2371	-.0011	-.0411	-.0979	-.0887	.3624	.5453	-.3028	-.2031	-.0819
300.000		.3344	.4138	.8432	.6080	.2122	-.0156	-.0555	-.1085	-.1034	.1099	.3287	-.1105	-.2067	-.0880
330.000		.3306	.4085	.8135	.5951	.1949	-.0317	-.0722	-.1201	-.1087	.0902	.0000		-.0201	-.0495

X/LT	.5528	.6340	.7487	.8506	.9264	.9838
P						
.00	-.0729	-.0797	-.0283	-.0031	.0109	-.1484
30.000	-.0556	-.0274	-.0308	-.0050	.0780	-.1500
60.000	-.0072	-.0399	-.0209	-.0300	.1760	-.1617
90.000	-.0748	-.1424	-.0415	.0030	.6886	-.1558
120.000	.0604	.0450	-.0319	.0259	.2899	-.1623
135.000	.0415	-.0029	-.0161	.2230	.3026	
147.000	.0354	-.0193	.0334	.1274	.2592	-.1818
162.000	.0204	-.0418	.0479	.1460	.3767	
180.000	-.0078	-.0546	.0299	.1335	.3213	-.1880
198.000	-.0460	-.0534	.0271	.0921	.2729	
213.000	-.0857	-.0228	.0206	.1063	.1289	-.2048
225.000	.0216	.0289	-.0332	.1292	.1747	
240.000	.0915	.0193	-.0194	.0472	.2313	-.1565
270.000	-.0688	-.1339	-.0255	-.0052	.6054	-.1584
300.000	.0008	-.0055	-.0162	-.0356	.1632	-.1581
330.000	-.0781	-.0257	-.0374	-.0049	.0791	-.1623

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHAT(4) = -.378 BETAT (1) = -6.520

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6763	.2769	.4185	.8872	.7288	.2230	-.0103	-.0546	-.1005	-.1026	.0990	-.0659	.0346	.0297	-.0204
30.000		.4047	.3767	.9861	.7111	.2984	.0389	-.0113	-.0632	-.0623	.1632	.0716	.0359	-.0900	-.0890
60.000		.4316	.3716	1.0638	.7774	.3506	.0811	.0284	-.0316	-.0317	.2129	.4441	-.1520	-.1749	-.0495
90.000		.4358	.3777	1.0979	.8079	.3790	.0988	.0409	-.0179	-.0181	.5982	.4661	-.297	-.1669	.0163
120.000		.4316	.3693	1.0658	.7851	.3568	.0841	.0303	-.0300	-.0304	.2252	.3545	-.093	-.1006	.0059
135.000			.3594	1.0363	.7500	.3384	.0655	.0178	-.0377	-.0412	.1974	.1252	-.0010	.0227	.0865
147.000		.4194	.3555	1.0055	.7246	.3084	.0575	.0056	-.0517	-.0577	.1793	.1130	.1525	.2995	.1168
162.000			.3610	.9563	.6786	.2555	.0220	-.0259	-.0696	-.0730	.1438	.1130	.2657	.1482	.0619
180.000	1.6763	.4040	.3772	.8908	.6535	.2568	.0021	-.0514	-.0935	-.0939	.1106	.1227	.3948	.4137	.0252
198.000			.3999	.8228	.7143	.2386	-.0360	-.0613	-.1142	-.1153	.0867	.0941	.2340	-.0410	.1643
213.000		.3812	.4122	.6163	.0000	.0015	-.1074	-.0533	-.1241	-.1095	.0054	.0947	.1885	.1203	.0814
225.000			.4090	.7349	.5033	.1773	-.0344	-.1005	-.1277	-.1163	.0512	.1137	.0970	.0960	-.0376
240.000		.3543	.3710	.6896	.5747	.1306	-.0623	-.0993	-.1440	-.1384	.0654	.1808	-.0004	-.0284	-.0702
270.000		.3128	.3727	.5751	.4927	.1281	-.0699	-.1018	-.1485	-.1433	.3134	.4365	-.2796	-.1139	-.0032
300.000		.3238	.3659	.6712	.5165	.1421	-.0696	-.1005	-.1456	-.1420	.0535	.1805	-.0311	-.1493	-.0271
330.000		.2917	.3824	.7796	.5466	.1667	-.0424	-.0798	-.1287	-.1263	.0496	.0000		-.0112	-.0304

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0678	-.0467	-.0366	-.0338	-.0091	-.1533
30.000	-.0119	.0044	-.0321	-.0242	.0384	-.1562
60.000	.0153	.0015	-.0158	-.0277	.2064	-.1530
90.000	-.0512	-.1161	-.0642	-.0546	.7386	-.1568
120.000	.1440	.0923	.0846	.1312	.4116	-.1662
135.000	.0533	.0410	.0496	.3407	.4048	
147.000	.0635	.0384	.0698	.1714	.4444	-.1433
162.000	-.0291	-.0058	.0522	.0563	.6202	
180.000	-.0390	-.0546	-.0393	.1142	.4939	-.1484
198.000	-.0422	-.0905	.0014	.0790	.4296	
213.000	-.1777	-.1338	-.0325	.0487	-.0384	-.1623
225.000	-.0167	-.0427	-.0409	.0726	.1585	
240.000	.0108	-.0953	-.0434	.0742	.1022	-.1446
270.000	-.1100	-.0369	-.0562	.0453	.5019	-.1472
300.000	.0082	-.0264	-.0319	.0241	.1911	-.1465
330.000	-.0838	-.0546	-.0239	-.0182	.0333	-.1494

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHAT(4) = -.373 BETAT (2) = -4.376

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6660	.2630	.4249	.8832	.7636	.2297	-.0049	-.0477	-.0939	-.0919	.1129	-.0655	.0470	.0522	-.0001
30.000		.3703	.4002	.9611	.6832	.2747	.0289	-.0205	-.0734	-.0753	.1446	.0709	.0145	-.0657	-.0788
60.000		.4057	.4018	1.0149	.7270	.3093	.0522	-.0032	-.0565	-.0519	.1860	.4754	-.1593	-.1725	-.0615
90.000		.4172	.3970	1.0389	.7475	.3280	.0593	.0068	-.04[illegible]3	-.0418	.5404	.4242	-.299[illegible]	-.1625	.0079
120.000		.4166	.3992	1.0162	.7327	.3110	.0526	.0029	-.0524	-.0503	.1921	.3734	-.092	-.1039	.0262
135.000			.3954	.9990	.7096	.3010	.0462	-.0016	-.0578	-.0623	.1688	.1062	.0399	.0775	.0674
147.000		.4031	.3951	.9815	.6938	.2824	.0395	-.0150	-.0712	-.0552	.1624	.1246	.1967	.2775	.0992
162.000			.3951	.9478	.6633	.2626	.0122	-.0249	-.0770	-.0828	.1443	.1275	.2910	.1830	.0380
180.000	1.6660	.3793	.3941	.8894	.6932	.2409	-.0060	-.0434	-.0830	-.0926	.1236	.1275	.2644	.4362	.0415
198.000			.3951	.8330	.7009	.2603	-.0240	-.0492	-.1038	-.1020	.1019	.1326	.2330	.0291	.2075
213.000		.3581	.4191	.6760	.0000	.0385	-.0948	-.0370	-.1076	-.1040	.0099	.0843	.1952	.1519	.1423
225.000			.4509	.7839	.5717	.2185	-.0176	-.0840	-.1108	-.1023	.0741	.1217	.1118	.1215	-.0017
240.000		.3238	.4065	.7501	.6340	.1620	-.0400	-.0849	-.1284	-.1222	.0796	.2022	-.0250	-.0541	-.0736
270.000		.3202	.3854	.6816	.5543	.1604	-.0528	-.0872	-.1349	-.1280	.2996	.4934	-.2831	-.1610	-.0094
300.000		.3189	.4094	.7411	.5562	.1828	-.0483	-.0833	-.1293	-.1277	.0754	.2147	-.0414	-.1584	-.0660
330.000		.2724	.4227	.8099	.5779	.1927	-.0255	-.0683	-.1189	-.1130	.0793	.0000		.0002	-.0250

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0570	-.0519	-.0309	-.0201	-.0024	-.1532
30.000	-.0125	.0076	-.0286	-.[illegible]169	.047[illegible]	-.1438
60.000	.0112	-.0026	-.0084	-.022[illegible]	.1767	-.1435
90.000	-.0787	-.1315	-.0520	-.0326	.6976	-.1512
120.000	.0985	.0650	.0415	.0823	.3553	-.1677
135.000	.0463	.0243	.011[illegible]	.2846	.3852	
147.000	.0335	.0233	.0425	.1412	.4068	-.1577
162.000	.0159	-.0261	.0116	.[illegible]078	.5580	
180.000	-.0394	-.0424	.0276	.05[illegible]3	.5062	-.1642
198.000	-.0154	-.0225	.0007	.0789	.4357	
213.000	-.1731	-.1354	-.0259	.0734	.[illegible]589	-.1855
225.000	-.0103	-.0293	-.0[illegible]74	.0894	.[illegible]803	
240.000	.0297	-.0386	-.0465	.0907	.[illegible]220	-.1493
270.000	-.1190	-.0982	-.0533	.0477	.5033	-.1529
300.000	.0166	-.012[illegible]	-.0306	.0328	.215[illegible]	-.1522
330.000	-.0790	-.040[illegible]	-.0255	-.0129	.0361	-.1539

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHAT(4) = -.372 BETAT (3) = -2.171

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6609	.2782	.4233	.8746	.7159	.2252	-.0015	-.0437	-.0927	-.0970	.1159	-.0582	.0636	.0729	.0188
30.000		.3594	.4005	.9187	.6619	.2530	.0148	-.0341	-.0838	-.0823	.1376	.0717	-.0145	-.0238	-.0482
60.000		.3729	.3986	.9546	.6802	.2715	.0269	-.0174	-.0704	-.0703	.1589	.4939	-.1605	-.1749	-.0724
90.000		.3761	.3960	.9750	.6892	.2817	.0325	-.0149	-.0669	-.0631	.5009	.4029	-.296	-.1640	-.0102
120.000		.3783	.3973	.9660	.6838	.2709	.0265	-.0197	-.0665	-.0680	.1666	.3971	-.0841	-.1099	-.0421
135.000			.3963	.9527	.6683	.2626	.0284	-.0206	-.0755	-.0732	.1518	.0990	.1045	.1040	.0329
147.000		.3726	.3970	.9465	.6674	.2514	.0178	-.0321	-.0767	-.0735	.1521	.1412	.2248	.2513	.0616
162.000			.3989	.9200	.6539	.2543	.0127	-.0276	-.0853	-.0800	.1376	.1482	.2836	.1456	.0243
180.000	1.6609	.3703	.4048	.8995	.7285	.2223	-.0056	-.0295	-.0863	-.0882	.1311	.1321	.2683	.4478	.0892
198.000			.4073	.8626	.7047	.2786	-.0091	-.0436	-.0905	-.0921	.1027	.0788	.2641	.0368	.2211
213.000		.3494	.4281	.7725	.0000	.0630	-.0834	-.0209	-.0968	-.1022	.0187	.1029	.2228	.1732	.1586
225.000			.4790	.8408	.6449	.2568	.0063	-.0655	-.0950	-.0882	.0898	.1135	.0944	.1487	.0322
240.000		.3177	.4372	.8253	.6851	.1910	-.0120	-.0659	-.1123	-.1058	.1101	.2572	-.0366	-.0763	-.0590
270.000		.3543	.4028	.8028	.5999	.1898	-.0289	-.0640	-.1162	-.1094	.3316	.5286	-.2883	-.1943	-.0051
300.000		.3491	.4106	.8182	.6024	.2089	-.0248	-.0609	-.1110	-.1100	.1062	.2827	-.0513	-.1624	-.0807
330.000		.2897	.4320	.8472	.6125	.2144	-.0142	-.0576	-.1119	-.1047	.0955	.0000		.0026	-.0130

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0456	-.0606	-.0220	-.0087	.0013	-.1417
30.000	-.0398	.0007	-.0278	-.0055	.0625	-.1446
60.000	.0055	-.0041	-.0079	-.0052	.1533	-.1388
90.000	-.1056	-.1425	-.0602	-.0305	.7206	-.1494
120.000	.0451	.0398	.0078	.0488	.2761	-.1459
135.000	.0291	.0079	-.0131	.1961	.3135	
147.000	.0074	-.0147	.0263	.1325	.4174	-.1[illegible]5
162.000	.0288	-.0717	-.0222	.0552	.4498	
180.000	-.0341	-.1009	.0535	.1312	.4383	-.1775
198.000	-.0258	-.0099	.0037	.0795	.3465	
213.000	-.1347	-.0954	-.0078	.0775	.1058	-.1904
225.000	.0010	-.0086	-.0327	.1048	.1898	
240.000	.0425	-.0137	-.0420	.0863	.1875	-.1439
270.000	-.1133	-.1550	-.0589	.0433	.5505	-.1462
300.000	.0202	-.0022	-.0209	.0004	.2090	-.1459
330.000	-.0699	-.0342	-.0250	-.0117	.0469	-.1494

ARC97-019 IA81 LVAP(ALLML SEALED) EXTERNAL TANK (RETT44)

ALPHAT(4) = -.363 BETAT (4) = .010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6617	.3119	.4294	.8770	.7073	.2330	-.0020	-.0457	-.0925	-.0918	.1217	-.0557	.0698	.0794	.0221
30.000		.3492	.4034	.8773	.6391	.2410	.0031	-.0425	-.0899	-.0883	.1265	.0610	-.0283	.0032	-.0242
60.000		.3716	.3970	.8799	.6359	.2435	.0072	-.0352	-.0861	-.0983	.1333	.4355	-.1550	-.1803	-.0827
90.000		.3832	.3957	.8851	.6372	.2429	.0087	-.0390	-.0896	-.0844	.4524	.4148	-.296	-.1595	-.0344
120.000		.3880	.3960	.8793	.6407	.2356	.0103	-.0332	-.0826	-.0866	.1381	.3952	-.079	-.1185	-.0705
135.000			.3960	.8877	.6365	.2343	.0119	-.0374	-.0874	-.0827	.1298	.0894	.1148	.1338	.0167
147.000		.3832	.3957	.8945	.6443	.2330	.0026	-.0396	-.0832	-.0857	.1356	.1351	.2235	.2193	.0502
162.000			.3989	.8945	.6456	.2512	.0109	-.0367	-.0925	-.0818	.1378	.1431	.2741	.0646	.0445
180.000	1.6617	.3678	.4028	.8819	.7626	.2081	.0049	-.0287	-.0941	-.0824	.1378	.1209	.2437	.3878	.0994
198.000			.4128	.8951	.6951	.2828	.0039	-.0354	-.0800	-.0940	.1095	.1216	.2116	.0560	.2460
213.000		.3392	.4319	.8676	.0000	.0771	-.0713	-.0067	-.0861	-.0896	.0391	.1531	.2055	.1905	.1403
225.000			.4899	.8981	.7067	.2815	.0221	-.0504	-.0785	-.0958	.0843	.1177	.0544	.1390	.0614
240.000		.3511	.4207	.9000	.7495	.2187	.0113	-.0478	-.0931	-.0827	.1443	.3113	-.0423	-.0855	-.0546
270.000		.3710	.4244	.9093	.6378	.2295	-.0060	-.0424	-.0938	-.0973	.3722	.5502	-.2975	-.2012	-.0073
300.000		.3761	.4224	.8984	.6359	.2327	-.0032	-.0396	-.0922	-.0889	.1352	.3422	-.0615	-.1654	-.1031
330.000		.3607	.4264	.9939	.6414	.2263	-.0006	-.0434	-.0996	-.0944	.1191	.0000		.0023	-.0194

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0472	-.0698	-.0198	-.0084	.0030	-.1447
30.000	-.0647	-.0204	-.0268	-.0040	.0206	-.1527
60.000	.0029	-.0057	-.0134	-.0094	.1869	-.1443
90.000	-.1196	-.1540	-.0768	-.0167	.7171	-.1437
120.000	.0183	.0113	-.0287	.0299	.2751	-.1518
135.000	.0301	-.0143	-.0352	.2291	.2933	
147.000	.0061	-.0406	.0239	.1595	.2556	-.1789
162.000	-.0261	-.0710	.0315	.1570	.3399	
180.000	-.0315	-.0951	.0142	.1531	.2728	-.1856
198.000	-.0210	-.0646	.0082	.1222	.2191	
213.000	-.1295	-.0441	.0107	.1352	.1449	-.1956
225.000	.0128	.0055	-.0403	.1342	.1843	
240.000	.0620	.0059	-.0308	.0622	.2302	-.1489
270.000	-.0909	-.1451	-.0474	-.0058	.5991	-.1489
300.000	.0189	.0043	-.0183	-.0064	.1762	-.1492
330.000	-.0663	-.0140	-.0250	-.0064	.0700	-.1550

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHAT(4) = -.345 BETAT (5) = 2.213

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1284	.1944	.2106	.2323	.2584	.2821	.3382	.3804	.4445	.4987
PHI															
.000	1.6623	.2894	.4439	.8061	.7159	.2384	.0076	-.0456	-.0953	-.0959	.1191	-.0625	.0697	.0674	.0141
30.000		.3158	.4336	.8556	.6172	.2224	-.0103	-.0545	-.1001	-.1018	.1043	.0517	-.0322	.0047	-.0169
60.000		.3777	.4108	.8268	.6060	.2065	-.0173	-.0629	-.1099	-.1186	.1072	.3674	-.1456	-.1770	-.0670
90.000		.3941	.4118	.8197	.6156	.2029	-.0302	-.0709	-.1144	-.1311	.3968	.4574	-.295	-.1402	-.0388
120.000		.3845	.4076	.8181	.6092	.1950	-.0187	-.0603	-.1096	-.1112	.1065	.3486	-.082.	-.1083	-.0986
135.000			.4073	.8408	.6076	.2010	-.0125	-.0613	-.1068	-.1031	.0972	.0909	.0938	.1599	-.0131
147.000		.3800	.4037	.8605	.6221	.2288	-.0126	-.0507	-.0997	-.1034	.1111	.1445	.2091	.2274	.0125
162.000			.4079	.8796	.6452	.2470	-.0017	-.0556	-.0940	-.0956	.1169	.1317	.2251	.0917	.0842
180.000	1.0823	.3895	.4112	.9120	.7648	.2090	.0127	-.0330	-.0940	-.0907	.1259	.1179	.3316	.4353	.0278
198.000			.4231	.9489	.6732	.2952	.0223	-.0314	-.0707	-.0816	.1235	.1237	.2659	.0761	.1452
213.000		.3628	.4371	.9372	.0000	.1053	-.0641	.0099	-.0784	-.0810	.0517	.1420	.2251	.2280	.1650
225.000			.4995	.9717	.7583	.3210	.0335	-.0295	-.0582	-.0530	.1140	.0944	.0367	.1328	.0778
240.000		.3912	.4270	.9859	.8043	.2543	.0364	-.0212	-.0774	-.0596	.1688	.3453	-.0666	-.0842	-.0335
270.000		.3928	.4306	1.0013	.6928	.2735	.0230	-.0199	-.0780	-.0712	.4137	.5763	-.2970	-.1972	.0083
300.000		.3800	.4329	.9871	.6815	.2780	.0252	-.0199	-.0790	-.0774	.1582	.4105	-.0589	-.1640	-.0941
330.000		.3498	.4345	.9711	.6817	.2582	.0140	-.0317	-.0871	-.0809	.1345	.0000		-.0242	-.0505

X/LT	.9528	.8340	.7423	.6506	.9284	.9838
PHI						
.000	-.0528	-.0671	-.0238	-.0116	-.0081	-.1448
30.000	-.0716	-.0362	-.0203	-.0046	.0284	-.1444
60.000	-.0010	-.0084	-.0222	.0005	.2169	-.1422
90.000	-.1374	-.1093	-.0709	.0200	.6303	-.1432
120.000	.0054	-.0126	-.0404	.0982	.1462	-.1338
135.000	.0201	-.0667	-.0155	.1429	.2494	
147.000	-.0384	-.0638	.0210	.1324	.1898	-.1735
162.000	-.0403	-.0943	.0028	.1378	.2296	
180.000	-.0454	-.0827	-.0305	.1317	.3303	-.1877
198.000	-.0917	-.1244	.0066	.1071	.3007	
213.000	-.0323	-.0135	.0308	.1161	.1928	-.1890
225.000	.0357	.0012	-.0218	.1452	.2357	
240.000	.0818	.0099	-.0004	.0743	.1534	-.1703
270.000	-.0924	-.1356	-.0338	-.0195	.7052	-.1573
300.000	.0143	-.0033	-.0094	-.0165	.1697	-.1551
330.000	-.0521	.0054	-.0250	-.0081	.0659	-.1615

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHA(4) = -.327 BETAT (8) = 3.758

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6742	.2599	.4505	.9082	.7200	.2364	-.0017	-.0444	-.0936	-.0943	.1149	-.0677	.0642	.0457	-.0030
30.000		.2846	.4358	.8151	.5808	.19	-.0247	-.0685	-.1134	-.1141	.0823	.0504	-.0399	-.0058	-.0228
60.000		.3392	.4047	.7498	.5592	.1743	-.0406	-.0859	-.1287	-.1268	.0794	.3070	-.1440	-.1344	-.1067
90.000		.3652	.4027	.7191	.5592	.1673	-.0553	-.0970	-.1325	-.1128	.3751	.5275	-.198	-.1712	-.1166
120.000		.3597	.4014	.7499	.5592	.1568	-.0435	-.0874	-.1703	-.1271	.0901	.2824	-.0501	-.0695	-.0547
135.000			.3982	.7782	.5550	.1718	-.0406	-.0816	-.1198	-.1226	.0701	.0758	.0735	.1484	-.0244
147.000		.3626	.3976	.8141	.5885	.2021	-.0287	-.0572	-.1165	-.1115	.0836	.1253	.2011	.2331	-.0049
162.000			.3984	.8535	.6537	.2148	-.0217	-.0533	-.0992	-.1053	.0936	.1034	.2098	-.0291	.3365
180.000	1.6742	.3501	.4068	.9010	.7312	.2183	.0161	-.0459	-.0853	-.0927	.1194	.1089	.3433	.4256	-.0081
198.000			.4162	.9457	.6100	.3004	.0482	-.0378	-.0569	-.0712	.1343	.1089	.2632	.0918	.2177
213.000		.3607	.4242	.9330	.0000	.1099	-.0656	.0215	-.0719	-.0800	.0849	.1423	.2219	.2251	.1737
225.000			.5245	.9907	.7981	.3599	.0469	-.0018	-.0439	-.0397	.1617	.1050	.0063	.1233	.0933
240.000		.4008	.4530	1.0195	.8338	.2999	.0592	.0069	-.0611	-.0510	.1956	.3601	-.0727	-.0904	-.0259
270.000		.4092	.4537	1.0466	.7550	.3274	.0594	.0151	-.0491	-.0405	.4604	.6081	-.3014	-.2008	.0187
300.000		.3979	.4475	1.0238	.7299	.3210	.0594	.0089	-.0535	-.0546	.1029	.4417	-.0721	-.1634	-.0904
330.000		.3655	.4378	.9830	.6890	.2828	.0305	-.0164	-.0725	-.0592	.1472	.0000		-.0599	-.0915

X/LT	.5528	.6340	.7423	.8506	.9264	.9939
PHI						
.000	-.0559	-.0598	-.0371	-.0186	-.0133	-.1469
30.000	-.0646	-.0512	-.0265	-.0058	.0234	-.1543
60.000	.0028	-.0202	-.0255	-.0001	.2094	-.1526
90.000	-.1315	-.1024	-.0515	.0640	.6373	-.1484
120.000	-.0051	-.0246	-.0602	.1043	.1421	-.1400
135.000	-.07.3	- 1009	-.0342	.1068	.2312	
147.000	-.0547	-.0884	-.0172	.1180	.1572	-.1600
162.000	-.0591	-.1133	-.0627	.1356	.2673	
180.000	-.0751	-.1057	-.1035	.0902	.3948	-.1771
198.000	-.1409	- 1733	.0232	.0637	4748	
213.000	.0152	.0100	.0423	.0937	.2117	-.1762
225.000	.070	.0357	.0095	.1317	.2400	
240.000	.0957	0385	.0318	.0813	.2849	-.1755
270.000	-.07 9	-.1245	-.0349	-.0156	.7019	-.1597
300.000	.0109	-.0070	-.0119	-.0332	.1942	-.1591
330.000	-.0237	0036	-.0209	-.0218	0515	-.1700

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHAT(4) = -.310 BETAT (7) = 6.539

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6700	.2310	.4287	.8806	.6970	.2311	-.0071	-.0525	-.0985	-.0998	.1002	-.0714	.0515	.0203	-.0252
30.000		.2593	.3931	.7679	.5378	.1695	-.0429	-.0845	-.1231	-.1276	.0554	.0428	-.0457	-.0159	-.0351
60.000		.3045	.3722	.6776	.4992	.1322	-.0677	-.1085	-.1451	-.1416	.0608	.2179	-.1373	-.1244	-.0817
90.000		.3187	.3681	.6015	.4544	.1329	-.0778	-.1133	-.1467	-.1289	.3824	.5248	-.190	-.1628	-.1037
120.000		.3308	.3719	.6675	.5002	.1182	-.0707	-.1098	-.1448	-.1419	.0586	.2444	-.025	-.0293	-.0708
135.000			.3658	.7268	.5127	.1472	-.0621	-.0967	-.1374	-.1367	.0479	.0611	.0949	.1156	-.0510
147.000		.3308	.3594	.7679	.5516	.1762	-.0441	-.0906	-.1304	-.1276	.0518	.1097	.1881	.2056	-.0201
162.000			.3503	.8132	.6314	.1804	-.0368	-.0651	-.1142	-.1156	.0628	.1023	.1749	-.0700	-.0277
180.000	1.6700	.3344	.3678	.6754	.5851	.2206	.0004	-.0517	-.0922	-.0925	.1140	.1090	.3147	.3589	-.0520
198.000			.3730	.9476	.5613	.2824	.0626	-.0431	-.0494	-.0551	.1424	.1251	.2635	.0804	.3251
213.000		.3771	.3914	.9249	.0000	.0940	-.0871	.0296	-.0772	-.0892	.1040	.1296	.2277	.2078	.2052
225.000			.5073	1.0158	8186	.3937	.0498	.0229	-.0242	-.0252	.1979	.1219	-.0149	.0558	.1332
240.000		.4444	.4471	1.0589	.8553	.3412	.0895	.0392	-.0356	-.0239	.2327	.3621	-.0732	-.0935	-.0191
270.000		.4547	.4513	1.0972	.8257	.3728	.0911	.0481	-.0164	-.0174	.5354	.6441	-.2972	-.2036	.0243
300.000		.4335	.4478	1.0531	.7694	.3605	.0837	.0350	-.0301	-.0304	.2243	.4280	-.0710	-.1640	-.0829
330.000		.3873	.4280	.9962	.7015	.2998	.0424	-.0048	-.0636	-.0594	.1650	.0000		-.0810	-.1038

X/LT	.5528	.6540	.7423	.8506	.9264	.9838
PHI						
.000	-.0700	-.0531	-.0481	-.0376	-.0293	-.1490
30.000	-.0709	-.0595	-.0315	-.0195	.0223	-.1519
60.000	-.0007	-.0275	-.0375	-.0108	.1951	-.1473
90.000	-.0930	-.0776	-.0609	.0195	.6731	-.1419
120.000	-.0097	-.0497	-.0603	.0869	.1695	-.1351
135.000	- 0563	-.1019	-.0696	.1064	.2175	
147.000	-.0946	-.0933	-.0667	.1519	.1669	-.1435
162.000	-.1246	-.1577	-.1006	.1262	.2447	
180.000	-.1399	-.1330	-.1012	-.0140	.3359	-.1751
198.000	-.1838	-.2204	.0128	-.0312	.6671	
213.000	.0535	.0044	.0627	.1064	.2516	-.1738
225.000	.0976	.0547	.0285	.1015	.2981	
240.000	.1203	.0777	.0761	.1143	.3929	-.1983
270.000	-.0419	-.1093	-.0427	-.0141	.6930	-.1548
300.000	.0105	-.0059	-.0249	-.0283	.2304	-.1593
330.000	-.0250	-.0049	-.0274	-.0257	.0398	-.1870

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHAT(5) = 1.836 BETAT (1) = .019

S CTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6619	.2400	.4654	.9696	.8044	.2779	.0248	-.0189	-.0707	-.0688	.1593	-.0425	.0672	.0958	.0462
30.000		.2698	.4573	.9647	.6732	.2850	.0270	-.0211	-.0726	-.0698	.1599	.0747	.0051	.0170	.0002
60.000		.3562	.3992	.9233	.6558	.2620	.0210	-.0233	-.0777	-.0786	.1551	.4487	-.1074	-.1321	-.1231
90.000		.3745	.3951	.8770	.6397	.2415	.0106	-.0374	-.0883	-.0893	.4385	.4013	-.286	-.1532	-.0039
120.000		.3710	.3973	.8372	.6182	.2160	-.0092	-.0489	-.0953	-.0962	.1139	.2971	-.118	-.1600	.0498
135.000			.3973	.8317	.6037	.2068	-.0067	-.0528	-.1029	-.1030	.1057	.0604	.0769	.0545	-.0170
147.000		.3684	.3973	.8271	.6037	.1953	-.0185	-.0637	-.1039	-.1014	.1070	.1216	.1884	.1772	.0268
162.000			.4021	.8232	.5998	.2032	-.0214	-.0624	-.1128	-.1024	.1067	.1026	.2388	.0827	.0386
180.000	1.6619	.3636	.4063	.8158	.6729	.1752	-.0278	-.0579	-.1141	-.1046	.1021	.1080	.2295	.3200	.0744
198.000			.4109	.8226	.6394	.2409	-.0233	-.0624	-.0997	-.1069	.0973	.1032	.2000	.0259	.2310
213.000		.3623	.4219	.8087	.0000	.0628	-.0893	-.0321	-.1055	-.1069	.0172	.1293	.1804	.1647	.1197
225.000			.4668	.8372	.6783	.2546	-.0073	-.0659	-.0939	-.0825	.0711	.0916	.0295	.0964	.0357
240.000		.3623	.4254	.8610	.6780	.2058	-.0108	-.0541	-.1092	-.0955	.1241	.2753	-.1007	-.1362	.0402
270.000		.3629	.4280	.9083	.6339	.2218	-.0051	-.0480	-.0939	-.0906	.3521	.5524	-.2914	-.1605	.0066
300.000		.3530	.4322	.9508	.6536	.2533	.0093	-.0337	-.0838	-.0773	.1535	.3383	-.0077	-.1231	-.1270
330.000		.2830	.4698	.9772	.6729	.2639	.0266	-.0193	-.0776	-.0742	.1473	.0000		.0130	.0059

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0210	-.0520	-.0042	-.0012	.0020	-.1407
30.000	-.0453	-.0091	-.0103	-.0034	.0322	-.1478
60.000	.0343	.0270	-.0074	-.0124	.1616	-.1391
90.000	.0164	-.0142	-.0289	-.0028	.5592	-.1375
120.000	-.0146	-.0020	-.0289	.0385	.3170	-.1323
135.000	.0132	-.0453	-.0469	.2530	.2962	
147.000	.0065	-.0542	-.0065	.2114	.2703	-.1804
162.000	-.0478	-.0770	.0100	.1878	.2981	
180.000	-.0475	-.1097	-.0137	.1823	.2573	-.1788
198.000	-.0338	-.0837	.0014	.1615	.2174	
213.000	-.1361	-.0584	.0020	.1692	.1700	-.1856
225.000	.0014	-.0174	-.0380	.1619	.2070	
240.000	.0187	-.0126	-.0274	.0951	.2680	-.1391
270.000	.0318	-.0254	-.0328	.0292	.5141	-.1394
300.000	.0420	.0301	-.0092	.0010	.1590	-.1397
330.000	-.0434	-.0097	-.0133	.0001	.0575	-.1500

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHAT(6) = 3.455 BETAT (1) = -4.413

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6680	.2528	.4599	1.0130	.8819	.3203	.0538	.0062	-.0472	-.0499	.1907	-.0232	.0465	.0879	.0494
30.000		.4047	.4223	1.0684	.7811	.3612	.0828	.0289	-.0268	-.0304	.2230	.1104	.0452	.0258	-.0065
60.000		.4458	.3906	1.0719	.7795	.3592	.0837	.0280	-.0313	-.0324	.2288	.5926	-.0597	-.0912	-.0764
90.000		.4310	.3678	1.0201	.7367	.3200	.0565	.0033	-.0504	-.0486	.5032	.4577	-.301	-.1569	.0238
120.000		.4066	.3665	.9271	.6616	.2550	.0161	-.0329	-.0842	-.0834	.1230	.2199	-.1581	-.1482	-.0222
135.000			.3735	.8792	.6172	.2413	-.0111	-.0541	-.0964	-.0948	.1072	.0449	-.0568	-.0808	.0886
147.000		.3918	.3771	.8390	.5921	.2126	-.0182	-.0595	-.1075	-.1111	.0881	.0771	.0880	.2225	.0430
162.000			.3817	.7853	.5602	.1663	-.0413	-.0791	-.1184	-.1225	.0662	.0967	.1911	.1497	.0222
180.000	1.6680	.3694	.3782	.7348	.5657	.1635	-.0541	-.0881	-.1273	-.1303	.0536	.0854	.2760	.3599	.0270
198.000			.3740	.6894	.6198	.1881	-.0630	-.0932	-.1299	-.1335	.0388	.0648	.1940	-.0101	.2064
213.000		.3376	.3918	.6514	.0060	.0043	-.1246	-.0724	-.1363	-.1433	-.0267	.0677	.1735	.1270	.1161
225.000			.4082	.6220	.4961	.1813	-.0483	-.1047	-.1290	-.1235	.0104	.0774	.0339	.0902	-.0394
240.000		.3132	.3756	.6153	.5486	.1386	-.0570	-.1012	-.1433	-.1371	.0485	.1955	-.1162	-.1502	.0162
270.000		.3183	.3827	.7318	.5341	.1539	-.0522	-.0913	-.1391	-.1316	.2349	.4959	-.3065	-.1594	.0340
300.000		.2965	.3898	.8165	.5754	.2113	-.0265	-.0641	-.1159	-.1160	.1004	.1395	.0853	-.0774	-.0914
330.000		.2191	.3982	.9218	.6561	.2566	.0183	-.0262	-.0834	-.0790	.1310	.0000		.0439	.0277

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0001	-.0208	-.0044	.0012	-.0089	-.1323
30.000	-.0087	.0415	.0151	.0089	.0699	-.1294
60.000	.0552	.0549	.0347	.0156	.1351	-.1220
90.000	.1047	.0478	.0372	.0405	.3519	-.1342
120.000	.0610	.0513	.0251	.1006	.4454	-.1426
135.000	-.0189	-.0019	-.0067	.3200	.4569	
147.000	.0367	.0180	.0187	.2156	.4582	-.1662
162.000	-.0010	-.0134	-.0020	.2325	.5860	
180.000	-.0675	-.0582	.0242	.2607	.5296	-.1626
198.000	-.0387	-.0140	.0124	.1463	.4476	
213.000	-.1819	-.1162	.0065	.1383	.1150	-.1798
225.000	-.0403	-.0393	.0044	.1613	.2278	
240.000	-.0048	-.0371	-.0183	.1562	.1934	-.1420
270.000	.0843	.0203	-.0512	.1296	.3551	-.1439
300.000	.0546	.0328	-.0250	.0287	.1643	-.1407
330.000	-.0387	-.0217	-.0033	-.0150	.0553	-.1355

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHAT(6) = 3.473 BETAT (2) = .010

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6626	.2116	.5192	1.0136	.8596	.3245	.0581	.0102	-.0447	-.0428	.2025	-.0177	.0662	.1158	.0755
30.000		.2090	.5600	.9880	.7193	.3171	.0555	.0063	-.0498	-.0509	.1935	.0837	.0462	.0350	.0250
60.000		.3103	.4061	.9456	.6797	.2798	.0386	-.0113	-.0648	- 0688	.1683	.3790	-.0546	-.0863	-.0952
90.000		.3598	.3787	.8765	.6281	.2348	.0057	-.0408	-.0878	-.0871	.4215	.3979	-.303'	-.1678	.0116
120.000		.3517	.3845	.7910	.5750	.1929	-.0241	-.0664	-.1102	-.1109	.0828	.2169	-.153L	-.1793	.0180
135.000			.3839	.7686	.5531	.1849	-.0312	-.0722	-.1159	-.1174	.0782	.0469	.0266	-.0112	-.0383
147.000		.3476	.3926	.7528	.5525	.1680	-.0392	-.0821	-.1226	-.1183	.0756	.1039	.1577	.1531	.0113
162.000			.3953	.7340	.5570	.1706	-.0482	-.0843	-.1265	-.1229	.0653	.0849	.1929	.1619	.0314
180.000	1.6626	.3447	.3879	.7103	.6069	.1466	-.0475	-.0795	-.1293	-.1271	.0705	.0936	.2262	.2679	.0436
198.000			.3879	.7197	.5177	.2028	-.0437	-.0853	-.1172	-.1275	.0553	.0820	.2082	.0103	.1983
213.000		.3411	.3947	.7152	.0000	.0335	-.1120	-.0539	-.1252	-.1255	-.0038	.1049	.1668	.1454	.1008
225.000			.4362	.7592	.6607	.2201	-.0353	-.0808	-.1095	-.0999	.0540	.0520	-.0125	.0320	.0132
240.000		.3585	.4125	.8091	.6075	.1974	-.0344	-.0648	-.1196	-.1076	.0941	.2189	-.1392	-.1774	.0544
270.000		.3646	.4151	.9025	.6185	.2201	-.0014	-.0469	-.0998	-.0887	.3403	.5538	-.2756	-.1658	.0177
300.000		.3215	.4349	.9543	.5732	.2811	.0233	-.0233	-.0793	-.0705	.1677	.3174	.0528	-.0760	-.1009
330.000		.2267	.5172	1.0016	.7174	.3075	.0509	.0045	-.0559	-.0509	.1812	.0000		.0340	.0234

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0100	-.0216	.0067	.0127	.0052	-.1352
30.000	-.0232	-.0053	.0064	.0035	.0484	-.1368
60.000	.0436	.0506	.0051	.0003	.1619	-.1436
90.000	.0826	.0484	.0073	.0898	.3541	-.1494
120.000	-.0021	-.0010	-.0222	.0930	.3330	-.1362
135.000	.0075	-.0143	-.0231	.2920	.3182	
147.000	-.0165	-.0559	.0337	.2580	.2955	-.1672
162.000	-.0664	-.0738	.0297	.2363	.2923	
180.000	-.0654	-.1114	.0022	.2238	.2793	-.1575
198.000	-.0303	-.1019	.0322	.2034	.2407	
213.000	-.1463	-.0543	.0217	.2094	.2067	-.1652
225.000	-.0149	-.0260	-.0093	.1992	.2459	
240.000	.0295	-.0203	-.0186	.1373	.2869	-.1368
270.000	.0899	.0394	-.0081	.1012	.3714	-.1375
300.000	.0519	.0568	.0053	.0130	.1603	-.1368
330.000	-.0191	-.0042	.0051	.0055	.0566	-.1391

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHAT(8) = 3.496 BETAT (3) = 3.764

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6758	.2354	.5317	1.0325	.9186	.3232	.0623	.0134	-.0421	-.0467	.1986	-.0246	.0536	.0806	.0454
30.000		.1602	.4822	.9138	.6640	.2648	.0192	-.0280	-.0785	-.0782	.1350	.0626	.0281	.0460	.0156
60.000		.2348	.3987	.8210	.5794	.1987	-.0204	-.0674	-.1159	-.1147	.1066	.1411	-.0092	-.0865	-.0596
90.000		.3164	.3762	.7276	.5272	.1546	-.0568	-.0953	-.1357	-.0994	.2933	.4621	-.292	-.1707	.0182
120.000		.3264	.3820	.6585	.5066	.1320	-.0684	-.1030	-.1437	-.1430	.0394	.2096	-.134	-.1125	-.0608
135.000			.3746	.6228	.5089	.1256	-.0668	-.1062	-.1424	-.1410	.0471	.0423	.1041	.0915	-.0320
147.000		.3244	.3730	.6219	.5144	.1332	-.0700	-.1001	-.1418	-.1414	.0368	.0745	.1562	.1639	-.0205
162.000			.3795	.6799	.5279	.1540	-.0655	-.1054	-.1373	-.1401	.0339	.0658	.1520	-.0164	.0223
180.000	1.6758	.3415	.3838	.7325	.6219	.1342	-.0411	-.0926	-.1309	-.1349	.0484	.0919	.2648	.3128	-.0097
198.000			.3750	.8019	.4951	.2057	-.0010	-.0907	-.1012	-.1085	.0559	.0967	.2299	.1005	.1599
213.000		.3645	.3848	.7762	.0000	.0227	-.1395	-.0383	-.1261	-.1335	.0190	.0758	.1661	.1408	.1372
225.000			.4623	.8800	.7618	.2626	-.0123	-.0463	-.0828	-.0831	.1091	.0439	-.0766	-.0727	.0687
240.000		.3871	.4438	.9331	.7001	.2766	.0102	-.0220	-.0844	-.0915	.1309	.2312	-.1432	-.1741	-.0196
270.000		.4090	.4603	1.0319	.7429	.3165	.0631	.0080	-.0542	-.0464	.4417	.6137	-.2591	-.1683	.0159
300.000		.4331	.4840	1.0811	.7940	.3757	.0894	.0374	-.0262	-.0233	.2371	.5049	.0403	-.0813	-.0967
330.000		.4012	.5035	1.0879	.7968	.3641	.0939	.0395	-.0236	-.0220	.2303	.0000		.0262	-.0124

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0082	-.0245	-.0095	-.0045	-.0134	-.1388
30.000	-.0378	-.0296	-.0063	-.0183	.0348	-.1321
60.000	.0382	.0164	-.0217	-.0023	.1554	-.1518
90.000	.0837	.0408	-.0384	.1391	.3554	-.1389
120.000	-.0405	-.0233	-.0217	.1781	.2209	-.1654
135.000	-.0498	-.1009	-.0079	.1861	.2568	
147.000	-.0779	-.0891	.0135	.1928	.2115	-.1508
162.000	-.0929	-.1243	-.0295	.1938	.2480	
180.000	-.0999	-.1125	-.1145	.1871	.3648	-.1689
198.000	-.1383	-.1349	-.0001	.1311	.5596	
213.000	.0087	-.0182	.0274	.1487	.2913	-.1657
225.000	.0433	.0117	-.0141	.1831	.3245	
240.000	.0535	.0242	.0434	.1245	.3680	-.1338
270.000	.0995	.0485	.0425	.0733	.3174	-.1418
300.000	.0471	.0447	.0348	.0211	.1305	-.1385
330.000	-.0191	.0335	.0210	.0048	.0635	-.1447

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT44)

ALPHAT(7) = 8.305 BETAT (1) = .039

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6629	.1797	.6260	1.0729	.8712	.3697	.0935	.0398	-.0209	-.0182	.2467	.0069	.0657	.1420	.1049
30.000		.1627	.6196	1.0327	.7679	.3526	.0874	.0344	-.0263	-.0293	.2261	.0932	.0827	.0612	.0444
60.000		.2235	.4492	.9448	.6932	.2952	.0474	.0001	-.0548	-.0589	.1847	.3301	.0016	-.0455	-.0493
90.000		.3013	.3505	.8571	.6085	.2268	.0011	-.0464	-.0944	-.0873	.3915	.3860	-.310	-.1994	.0031
120.000		.3392	.3502	.7460	.5335	.1663	-.0410	-.0804	-.1251	-.1250	.0473	.1394	-.196.	-.2222	-.0628
135.000			.3560	.7058	.5026	.1532	-.0538	-.0907	-.1319	-.1332	.0467	.0274	-.0228	-.0603	-.0400
147.000		.3460	.3589	.6766	.4948	.1369	-.0579	-.0993	-.1398	-.1361	.0467	.0798	.1252	.1400	-.0225
162.000			.3688	.6381	.5074	.1283	-.0708	-.1050	-.1427	-.1397	.0464	.0766	.1452	.0625	.0274
180.000	1.6629	.3228	.3691	.5914	.5335	.1133	-.0660	-.1018	-.1469	-.1439	.0480	.0782	.2147	.2115	.0115
198.000			.3678	.5215	.4240	.1654	-.0512	-.1104	-.1367	-.1436	.0305	.0654	.2016	.0144	.1563
213.000		.3338	.3724	.6141	.0000	.0004	-.1359	-.0800	-.1462	-.1443	-.0189	.0798	.1518	.1224	.0780
225.000			.4048	.6996	.6352	.1788	-.0515	-.0976	-.1241	-.1192	.0457	.0164	-.0654	-.0257	.0284
240.000		.3605	.3967	.7630	.5348	.1794	-.0486	-.0791	-.1277	-.1241	.0560	.1594	-.1875	-.2064	-.0532
270.000		.3351	.3859	.8751	.6056	.2175	-.0053	-.0464	-.1006	-.0957	.3077	.5411	-.2420	-.2156	.0093
300.000		.2521	.4566	.9562	.6932	.2968	.0412	-.0081	-.0661	-.0723	.1743	.3049	.1199	-.0314	-.0583
330.000		.1691	.6018	1.0457	.7676	.3442	.0803	.0271	-.0338	-.0299	.2157	.0000		.0607	.0527

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0348	.0096	.0194	.0287	.0144	-.1316
30.000	.0080	.0089	.0233	.0136	.0238	-.1426
60.000	.0364	.0579	.0200	.0027	.2021	-.1349
90.000	.0767	.0554	-.0027	.1491	.4501	-.1433
120.000	.0057	-.0076	-.0108	.1590	.3327	-.1342
135.000	-.0023	-.0509	.0149	.3440	.3478	
147.000	-.0371	-.0531	.0666	.3096	.3427	-.1727
162.000	-.0745	-.0595	.0312	.2737	.3054	
180.000	-.0813	-.1116	.0354	.2867	.2725	-.1614
198.000	-.0415	-.1219	.0610	.2487	.2634	
213.000	-.1542	-.0512	.0424	.2500	.2417	-.1792
225.000	-.0289	-.0297	.0107	.2455	.2764	
240.000	.0441	-.0047	-.0079	.1849	.2810	-.1355
270.000	.1055	.0637	-.0210	.1511	.4819	-.1358
300.000	.0460	.0743	.0181	.0095	.2098	-.1336
330.000	.0076	.0046	.0271	.0127	.0356	-.1416

ARC97-019 IA81 L:AP(ALLHL SEALED) EXTERNAL TANK (RETT45) (30 JAN 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	976.0000 IN. XT		
LREF =	1297.0000 INCHES	YMRP =	.0000 IN. YT		
BREF =	1297.0000 INCHES	ZMRP =	400.0000 IN. ZT		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

MACH =	2.200	RN/FT =	2.500
ELV-IB =	8.000	ELV-OB =	.000
RUDDER =	.000	SPDBRK =	.000

ALPHAT(1) = -7.000 BETAT (1) = -.136

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.390	.4445	.4987
PHI															
.000	1.7025	.2659	.3174	.5763	.6144	.1282	-.0567	-.0913	-.1245	-.1301	.0210	-.0916	.0361	.0401	-.0088
30.000		.2948	.3094	.6715	.4972	.1441	-.0487	-.0840	-.1185	-.1227	.0270	-.0131	-.0513	-.0922	-.1088
60.000		.3068	.3028	.7472	.5378	.1794	-.0266	-.0667	-.1043	-.1099	.0434	.2178	-.2191	-.2437	-.1411
90.000		.3201	.2832	.8708	.6148	.2390	.0099	-.0339	-.0766	-.0782	.3595	.4310	-.2197	-.1560	-.0801
120.000		.3397	.2865	.9834	.7087	.2962	.0623	.0129	-.0393	-.0476	.1724	.2420	.1075	.0481	.0463
135.000			.2991	1.0384	.7413	.3306	.0803	.0285	-.0234	-.0277	.1864	.2061	.1540	.2790	.1255
147.000		.3699	.3074	1.0692	.7776	.3584	.0912	.0451	-.0082	-.0206	.2158	.1367	.2699	.3157	.1396
162.000			.3220	1.0893	.8423	.3889	.1121	.0558	-.0079	-.0058	.2285	.0058	.3114	.1811	.1232
180.000	1.7025	.4012	.3372	1.0906	.9052	.3458	.1008	.0717	-.0043	-.0048	.2375	.0068	.3266	.6585	.1895
198.000			.3448	1.0722	.8309	.4253	.0842	.0598	-.0128	-.0159	.2188	.1297	.2568	.1433	.2597
213.000		.3513	.4024	.8906	.0000	.1470	-.0020	.0714	-.0181	-.0162	.1009	.1238	.2770	.2472	.2746
225.000			.4872	1.0288	.5957	.3501	.0915	.0106	-.0273	-.0199	.1604	.1882	.1351	.2617	.1294
240.000		.2848	.3323	.9735	.7620	.2790	.0424	-.0013	-.0543	-.0502	.1370	.1782	.1496	.1030	.0829
270.000		.2892	.2916	.8609	.6111	.2251	-.0004	-.0429	-.0870	-.0873	.2212	.6346	-.1941	-.1830	-.0883
300.000		.2878	.3035	.7443	.5255	.1619	-.0382	-.0726	-.1159	-.1106	.0407	.1699	-.1368	-.2322	-.1652
330.000		.2702	.3177	.6377	.5000	.1358	-.0591	-.0901	-.1301	-.1247	.0220	.0000		-.0599	-.0859

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0849	-.1126	-.0547	-.0135	-.0078	-.1397
30.000	-.0974	-.0416	-.0465	-.0300	-.0061	-.1474
60.000	-.1261	-.0634	-.0117	-.0218	.0818	-.1477
90.000	-.0090	-.0776	-.0491	-.0218	.5385	-.1480
120.000	.1056	.1081	.0115	.0238	.2783	-.1477
135.000	.0277	.0634	-.0021	.2104	.2972	
147.000	.0970	.0360	.0581	.1394	.2689	-.1740
162.000	.1145	.0350	.0291	.0311	.4720	
180.000	.0934	.0320	.0988	.1348	.4068	-.1761
198.000	.0052	.0340	.0473	.0846	.3952	
213.000	.0098	.0204	.0341	.0879	.0774	-.1914
225.000	.0943	.0839	-.0142	.1020	.1656	
240.000	.1369	.0574	.0172	.0404	.1891	-.1547
270.000	-.0152	-.0753	-.0396	-.0290	.4105	-.1500
300.000	-.1492	-.0921	-.0132	-.0232	.0919	-.1507
330.000	-.1024	-.0395	-.0568	-.0340	.0045	-.1537

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT45)

ALPHAT(2) = -4.824 BETAT (1) = -4.536

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6897	.2083	.3201	.7017	.6103	.1511	-.0400	-.0753	-.1127	-.1166	.0362	-.0827	.0093	.0196	-.0235
30.000		.3111	.3092	.7854	.5701	.1960	-.0126	-.0528	-.0909	-.0924	.0746	.0098	.0179	-.1151	-.1243
60.000		.3291	.2806	.9168	.6549	.2653	.0323	-.0134	-.0609	-.0538	.1247	.3181	-.1825	-.2208	-.1193
90.000		.3420	.2859	1.0145	.7364	.3277	.0746	.0253	-.0249	-.0268	.4936	.5088	-.228	-.1681	-.1263
120.000		.3569	.3181	1.0594	.7836	.3597	.0995	.0488	-.0038	-.0076	.2379	.4347	.0381	-.0188	.0364
135.000			.3218	1.0724	.7840	.3686	.1058	.0548	-.0014	-.0069	.2239	.2040	.1376	.1981	.1554
147.000		.3642	.3201	1.0677	.7823	.3610	.1041	.0485	-.0087	-.0066	.2316	.1559	.2280	.3315	.1674
162.000			.3201	1.0463	.7574	.3442	.0829	.0401	-.0107	-.0214	.2152	.0552	.2669	.2636	.1240
180.000	1.6897	.3679	.3164	1.0062	.7587	.3230	.0657	.0164	-.0232	-.0342	.1912	.1033	.2525	.5919	.1002
198.000			.3276	.9577	.8325	.3316	.0316	.0078	-.0510	-.0530	.1568	.1146	.2315	.0575	.2155
213.000		.3606	.3475	.6900	.0000	.0546	-.0495	.0121	-.0652	-.0480	.0459	.0678	.2093	.1971	.1554
225.000			.3616	.8448	.5990	.2491	.0270	-.0463	-.0742	-.0645	.0913	.1213	.0868	.1851	.0460
240.000		.3068	.2847	.7880	.6280	.1791	-.0177	-.0523	-.0967	-.0957	.0749	.1083	.1117	.0708	.0222
270.000		.2637	.2907	.7098	.5162	.1508	-.0425	-.0757	-.1186	-.1163	.1350	.5929	-.2456	-.1573	-.1015
300.000		.2401	.3062	.5894	.4823	.1389	-.0551	-.0856	-.1274	-.1247	.0302	.1033	-.0893	-.1950	-.1449
330.000		.2219	.3131	.6326	.4791	.1333	-.0554	-.0883	-.1277	-.1218	.0231	.0000		-.0235	-.0363

X/LT	.5528	.6340	.7423	.8536	.9264	.9839
PHI						
.000	-.0750	-.0796	-.0631	-.0358	-.0161	-.1498
30.000	-.0525	-.0181	-.0571	-.0444	-.0547	-.1718
60.000	-.0353	-.0670	-.0446	-.0038	.1692	-.1545
90.000	-.0085	-.0399	-.0267	.0025	.6294	-.1501
120.000	.1326	.1257	.0449	.0778	.2957	-.1498
135.000	.0430	.0665	.0277	.2503	.3292	
147.000	.0761	.0727	.0757	.1429	.3908	-.1956
162.000	.0642	-.0187	.0587	.0329	.5955	
180.000	.0463	.0257	-.0229	.0091	.5154	-.1996
198.000	.0404	-.0035	.0015	.0392	.4395	
213.000	-.1236	-.0866	-.0391	.0365	.0199	-.1742
225.000	.0364	.0283	-.0388	.0557	.1306	
240.000	.0929	.0141	-.0418	.0490	.0843	-.1451
270.000	-.0548	-.0972	-.0375	.0541	.4640	-.1501
300.000	-.0598	-.0962	-.0312	-.0157	.1745	-.1531
330.000	-.0928	-.0797	-.0467	-.0201	-.0027	-.1601

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT45)

ALPHAT(2) = -4.859 BETAT (2) = -.162

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7059	.2657	.3333	.6931	.6254	.1605	-.0390	-.0739	-.1110	-.1142	.0464	-.0860	.0367	.0527	.0063
30.000		.2924	.3263	.7394	.5430	.1727	-.0288	-.0686	-.1060	-.1091	.0574	.0096	-.0511	-.0463	-.0713
60.000		.3070	.3223	.7915	.5743	.2015	-.0106	-.0530	-.0945	-.0980	.0741	.2609	-.1907	-.2218	-.1449
90.000		.3156	.3146	.8677	.6267	.2442	.0130	-.0305	-.0753	-.0764	.3742	.4427	-.2[illegible]7	-.1622	-.1254
120.000		.3359	.3236	.9537	.6881	.2769	.0459	.0021	-.0498	-.0565	[illegible]523	.2545	.054[illegible]	-.0138	.0119
135.000			.3295	1.0231	.7064	.2998	.0638	.0107	-.0425	-.0441	.[illegible]0[illegible]	.1737	.0849	.2610	.1087
147.000		.3559	.3326	1.0493	.7295	.3189	.0638	.0173	-.0316	-.0390	.1834	.1321	.2302	.3027	.1312
162.000			.3411	1.0507	.7428	.3401	.0764	.0276	-.0343	-.0292	.1521	-.0045	.2501	.1451	.1107
180.000	1.7059	.3675	.3494	1.0563	.8946	.3074	.0641	.0358	-.0300	-.0295	.1974	.0021	.2858	.6222	.1648
198.000			.3540	1.0406	.8125	.3725	.0545	.0272	-.0320	-.0357	.1717	.1325	.2146	.1246	.2593
213.000		.3266	.3994	.9066	.0000	.1277	-.0222	.0464	-.0389	-.0397	.0731	.1388	.2398	.2299	.2342
225.000			.4789	1.0053	.7131	.3309	.0685	-.0088	-.0410	-.0353	.1476	.1750	.1199	.2345	.1199
240.000		.2810	.3590	.9513	.7838	.2524	.0339	-.0157	-.0630	-.0623	.1409	.1764	.0895	.0420	.0417
270.000		.2854	.3308	.8566	.6087	.2230	.0014	-.0389	-.0889	-.0815	.2412	.6495	-.2340	-.1745	-.1271
300.000		.2824	.3351	.7825	.5643	.1866	-.0225	-.0594	-.1078	-.1017	.0698	.1957	-.1002	-.2054	-.1618
330.000		.2681	.3378	.7134	.5457	.1638	-.0384	-.0740	-.1179	-.1114	.0470	.0000		-.0356	-.0568

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0641	-.0978	-.0401	-.0150	-.0080	-.1378
30.000	-.0915	-.0277	-.0481	-.0213	-.0056	-.1482
60.000	-.0409	-.0842	-.0096	-.0195	.1403	-.1469
90.000	-.0274	-.0806	-.0272	-.0054	.6156	-.1479
120.000	.0903	.0951	-.0033	.0207	.2926	-.1495
135.000	-.0284	.0444	-.0298	.2054	.2876	
147.000	.0708	.0079	.0315	.1330	.2595	-.1789
162.000	.0906	.0055	.0005	.0321	.4345	
180.000	.0708	-.0003	.0510	.1241	.3722	-.1805
198.000	.0077	.0444	.0190	.0894	.3452	
213.000	-.0495	-.0126	.0164	.0894	.0904	-.1900
225.000	.0384	.0523	-.0335	.0945	.1612	
240.000	.1131	.0603	-.0261	.0419	.1730	-.1459
270.000	-.0280	-.0799	-.0094	-.0131	.4957	-.1462
300.000	-.0713	-.0998	-.0150	-.0191	.1393	-.1472
330.000	-.0922	-.0275	-.0547	-.0238	-.0086	-.1519

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (REYT45)

ALPHAT(2) = -4.825 BETAT (3) = 3.569

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7086	.2579	.3187	.7082	.6149	.1497	-.0405	-.0746	-.1113	-.1146	.0442	-.0851	.0389	.0252	-.0250
30.000		.2716	.3111	.6130	.4971	.1460	-.0501	-.0845	-.1189	-.1213	.0308	.0078	-.0595	-.0201	-.0343
60.000		.2802	.3174	.6445	.4974	.1454	-.0475	-.0845	-.1193	-.1203	.0435	.1898	-.1839	-.2115	-.1225
90.000		.2948	.3078	.7190	.5257	.1695	-.0398	-.0729	-.1057	-.1058	.2717	.4888	-.256	-.1486	-.0974
120.000		.3023	.2955	.7931	.5783	.1982	-.0060	-.0474	-.0905	-.0897	.1030	.1389	.092.	.0365	-.0247
135.000			.2908	.8565	.6106	.2378	.0056	-.0325	-.0737	-.0799	.1040	.1439	.1529	.2355	.0499
147.000		.3194	.2898	.9262	.6505	.2659	.0292	-.0136	-.0655	-.0624	.1270	.1193	.2376	.2944	.0357
162.000			.2998	.9752	.7438	.2927	.0474	.0009	-.0410	-.0534	.1501	.1110	.2275	.0305	.1054
180.000	1.7086	.3194	.3315	1.0114	.8346	.2959	.0882	.0296	-.0242	-.0335	.1801	.1004	.3140	.5557	.0734
198.000			.3856	1.0456	.7531	.3942	.0991	.0412	.0012	-.0140	.1915	.0711	.2752	.1408	.2930
213.000		.3064	.4054	1.0419	.0000	.1913	.0139	.0854	-.0034	-.0143	.1207	.1442	.2726	.2997	.2695
225.000			.5456	1.0707	.8200	.4198	.1153	.0431	.0106	.0106	.1755	.1844	.1246	.2355	.1830
240.000		.3274	.3772	1.0620	.8589	.3283	.1097	.0405	-.0095	-.0123	.2209	.2971	.0689	.0080	.0531
270.000		.3483	.3342	1.0191	.7311	.3148	.0673	.0194	-.0395	-.0332	.3025	.7045	-.2125	-.1948	-.1360
300.000		.3157	.3225	.9259	.6419	.2534	.0255	-.0176	-.0709	-.0604	.1220	.2669	-.1075	-.2093	-.1542
330.000		.2859	.3252	.9027	.5594	.1933	-.0163	-.0509	-.0974	-.0944	.0703	.0000		-.1056	-.1203

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0741	-.0939	-.0586	-.0279	-.0174	-.1499
30.000	-.0886	-.0668	-.0479	-.0180	-.0185	-.1599
60.000	-.0553	-.0830	-.0344	-.0286	.1585	-.1519
90.000	-.0503	-.1178	-.0493	-.0041	.5918	-.1462
120.000	.0614	.0502	-.0460	.0633	.0678	-.1365
135.000	.0045	-.0400	-.0287	.0980	.2067	
147.000	.0065	-.0125	.0144	.0950	.1474	-.1586
162.000	.0207	-.0416	.0263	.0547	.3055	
180.000	.0220	-.0184	-.0335	.0789	.4451	-.1679
198.000	-.0585	-.1057	.0712	.0739	.4751	
213.000	.0688	.0592	.0599	.0967	.2003	-.1606
225.000	.0548	.0741	.0210	.1524	.2316	
240.000	.1327	.0957	.0425	.0884	.2256	-.1695
270.000	-.0136	-.0420	-.0041	.0243	.6302	-.1582
300.000	-.0407	-.0745	-.0474	-.0009	.1534	-.1579
330.000	-.0658	-.0247	-.0530	-.0407	-.0303	-.1689

ARC97-019 1A61 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT45)

ALPHAT(3) = -2.604 BETAT (1) = -.179

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7015	.2778	.3655	.7985	.6714	.1984	-.0160	.0553	-.0931	-.0953	.0817	-.0708	.0297	.0638	.0218
30.000		.3007	.3492	.8042	.5904	.2073	-.0081	.0463	-.0892	-.0936	.0867	.0280	-.0371	-.0230	-.0374
60.000		.3137	.3428	.8374	.5114	.2239	.0058	.0794	-.0806	-.0839	.1021	.3024	-.1555	-.1899	-.1332
90.000		.3230	.3383	.8796	.6397	.2420	.0164	-.0071	-.0700	-.0734	.3814	.4652	-.250	-.1744	-.0744
120.000		.3286	.3378	.9128	.6671	.2615	.0343	-.0.	-.0574	-.0630	.1478	.2728	.003	-.0641	-.0159
135.000			.3379	.9396	.6747	.2747	.0445	-.00 9	-.0568	-.0593	.1401	.1364	.0523	.2019	.0816
147.000		.3316	.3376	.9527	.6891	.2807	.0412	-.0069	-.0515	-.0539	.1512	.1288	.1930	.2837	.1183
162.000			.3437	.9617	.6904	.2926	.0436	.0010	-.0528	-.0522	.1608	.0610	.2221	.0979	.0916
180.000	1.7015	.3323	.3497	.9607	.7827	.2665	.0333	.0066	-.0495	-.0516	.1582	.0679	.2715	.5514	.1527
198.000			.3560	.9480	.7887	.3283	.0283	.0000	-.0475	-.0539	.1255	.0819	.1973	.0853	.2724
213.000		.2987	.3839	.8773	.0000	.1086	-.0374	.0221	-.0535	-.0596	.0487	.1005	.1993	.2264	.2033
225.000			.4510	.9240	.7400	.3028	.0472	-.0247	-.0529	-.0482	.1221	.1584	.1026	.2122	.1097
240.000		.2818	.3709	.9057	.7580	.2318	.0276	-.0274	-.0718	-.0694	.1231	.1707	.0433	-.0235	-.0046
270.000		.2981	.3596	.8827	.6218	.2159	-.0002	-.0347	-.0856	-.0802	.2670	.6637	-.2419	-.1838	-.1276
300.000		.2931	.3669	.8343	.5981	.2159	-.0085	-.0432	-.0920	-.0930	.0941	.1936	-.0544	-.1683	-.1429
330.000		.3001	.3613	.7984	.5898	.1974	-.0141	-.0515	-.0990	-.0962	.0764	.0000		-.0132	-.0295

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0441	-.0798	-.0286	-.0184	-.0019	-.1339
30.000	-.0689	-.0230	-.0376	-.0134	.0332	-.1449
60.000	-.0107	-.0081	-.0163	-.0339	.1638	-.1432
90.000	-.0560	-.0853	-.0674	-.0058	.6706	-.1455
120.000	.0630	.0736	-.0190	.0236	.3219	-.1522
135.000	-.0491	.0232	-.0386	.2250	.2908	
147.000	.0445	-.0233	-.0034	.1410	.2536	-.1729
162.000	.0614	-.0213	-.0164	.1496	.4010	
180.000	.0425	-.0296	.0134	.1311	.3390	-.1779
198.000	-.0117	.0384	-.0071	.1013	.3018	
213.000	-.0805	-.0415	-.0012	.1027	.1176	-.1876
225.000	-.0114	.0364	-.0475	.1029	.1729	
240.000	.0901	.0507	-.0210	.0547	.1829	-.1435
270.000	-.0514	-.0784	-.0336	.0034	.5545	-.1429
300.000	-.0048	-.0021	-.0237	-.0230	.1702	-.1435
330.000	-.0686	-.0220	-.0389	-.0120	.0301	-.1479

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT45)

ALPHAT(4) = -.385 BETAT (1) = -6.719

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6912	.2152	.3521	.6505	.7443	.2213	.0043	-.0383	-.0818	-.0839	.0951	-.0617	.0058	.0309	-.0134
30.000		.3399	.3117	.9817	.6395	.2978	.0538	.0077	-.0416	-.0489	.1535	.0631	.0486	-.0610	-.0800
60.000		.3614	.3150	1.0469	.7333	.3542	.0947	.0435	-.0132	-.0183	.2132	.4870	-.0974	-.1365	-.0975
90.000		.3687	.3243	1.0831	.7975	.3737	.1077	.0547	-.0007	-.0028	.5419	.5813	-.235	-.1603	.0002
120.000		.3581	.3153	1.0439	.7696	.3434	.0984	.0428	-.0139	-.0186	.2202	.3876	-.049[illegible]	-.0812	-.0833
135.000			.3011	1.0158	.7270	.3335	.0749	.0249	-.0270	-.0294	.1909	.1308	.0230	.0313	.1143
147.000		.3448	.2905	.9887	.6994	.3130	.0541	.0147	-.0343	-.0435	.1689	.0953	.1345	.2457	.1602
162.000			.2931	.9392	.6505	.2533	.0345	-.0129	-.0617	-.0617	.1335	.0552	.2255	.2212	.1321
180.000	1.5912	.3342	.3053	.8492	.6006	.2447	.0114	-.0360	-.0851	-.0819	.0995	.0953	.2529	.4679	.0569
198.000			.3291	.7742	.7183	.2180	-.0230	-.0524	-.1003	-.1051	.0675	.0744	.1881	.0389	2067
213.000		.3137	.3380	.5791	.0000	.0155	-.0872	-.0485	-.1072	-.0974	-.0113	.0668	.1467	.1282	.0668
225.000			.3390	.7024	.5041	.1722	-.0307	-.0894	-.1145	-.1098	.0274	.0724	.0445	.1123	-.0190
240.000		.2895	.2938	.6578	.5623	.1234	-.0571	-.0910	-.1313	-.1273	.0391	.0950	.0161	-.0160	-.0546
270.000		.2613	.3030	.5417	.4582	.1165	-.0647	-.0957	-.1354	-.1344	.2012	.5322	-.2241	-.1747	-.0124
300.000		.2454	.2977	.6435	.4885	.1402	-.0621	-.0933	-.1327	-.1273	.0304	.0539	.0025	-.1213	-.1140
330.000		.2076	.3044	.7423	.5194	.1643	-.0330	-.0689	-.1135	-.1107	.0401	.0000		-.0299	-.0128

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0557	-.0567	-.0397	-.0493	-.0451	-.1380
30.000	-.0451	.0057	-.0320	-.0325	.0270	-.1543
60.000	.0195	.0109	-.0271	-.0319	.1882	-.1443
90.000	.0113	-.0728	-.0999	-.0074	.7022	-.1440
120.000	.1564	.1094	.0604	.1018	.3670	-.1450
135.000	.0528	.0519	.0740	.3143	.3559	
147.000	.0620	.0326	.0835	.1704	.4512	-.1850
162.000	.0261	-.0029	.0183	.0120	.6337	
180.000	.0218	-.0774	-.0243	.0546	.4957	-.1860
198.000	.0159	-.1370	-.0292	.0586	.4635	
213.000	-.1787	-.1185	-.0596	.0252	-.0549	-.1613
225.000	-.0250	-.0390	-.0573	.0381	.1320	
240.000	.0314	-.0638	-.0649	.0414	.0778	-.1323
270.000	-.0939	-.0555	-.0665	.0152	.4399	-.1363
300.000	.0179	-.0208	-.0523	-.0023	.1572	-.1386
330.000	-.0669	-.0552	-.0332	-.0373	-.0038	-.1380

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT45)

ALPHAT(4) = -.380 BETAT (2) = -4.362

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2884	.2821	.3362	.3804	.4445	.4987
PHI															
.000	1.8877	.2108	.3488	.8419	.7795	.2261	.0077	-.0341	-.0783	-.0811	.1038	-.0533	.0134	.0521	.0134
30.000		.3207	.3217	.9311	.8380	.2788	.0390	-.0060	-.0529	-.0589	.1455	.0509	.0151	-.0345	-.0688
60.000		.3485	.3207	1.0203	.7247	.3144	.0705	.0185	-.0344	-.0357	.1859	.4516	-.1057	-.1422	-.1067
90.000		.3548	.3200	1.0474	.7433	.3273	.0745	.0261	-.0209	-.0256	.4919	.5320	-.239	-.1716	-.0147
120.000		.3545	.3184	1.0226	.7260	.3088	.0655	.0169	-.0334	-.0337	.1945	.3830	-.052_	-.0910	-.1031
135.000			.3154	.9829	.6958	.3121	.0526	.0073	-.0400	-.0414	.1659	.1179	.0519	.0425	.0883
147.000		.3449	.3150	.9568	.6795	.2835	.0470	.0029	-.0483	-.0552	.1555	.0980	.1577	.2524	.1295
162.000			.3193	.9037	.6446	.2429	.0241	-.0186	-.0601	-.0643	.1256	.0838	.2098	.2204	.1008
180.000	1.8877	.3207	.3213	.8479	.6177	.2541	.0116	-.0347	-.0723	-.0784	.1096	.1090	.2105	.4823	.0652
198.000			.3230	.7948	.7134	.2442	-.0153	-.0407	-.0875	-.0922	.0869	.1080	.1873	.0746	.2147
213.000		.2971	.3375	.6330	.0000	.0479	-.0755	-.0308	-.0918	-.0898	.0020	.0549	.1579	.1615	.1474
225.000			.3737	.7520	.5775	.2113	-.0116	-.0717	-.0965	-.0928	.0623	.1206	.0587	.1507	.0388
240.000		.2650	.3272	.7177	.6071	.1523	-.0338	-.0736	-.1127	-.1080	.0563	.1057	.0042	-.0460	-.0549
270.000		.2686	.3207	.6493	.5243	.1441	-.0434	-.0756	-.1154	-.1174	.1932	.6089	-.2232	-.1810	-.0239
300.000		.2600	.3493	.7141	.5309	.1708	-.0398	-.0740	-.1143	-.1093	.0609	.0984	-.0001	-.1265	-.1325
330.000		.2189	.3454	.7766	.5569	.1886	-.0186	-.0539	-.1009	-.0970	.0679	.0000		-.0091	-.0017

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0347	-.0584	-.0348	-.0325	-.0297	-.1410
30.000	-.0545	.0068	-.0212	-.0233	.0383	-.1450
60.000	.0134	.0052	-.0163	-.0127	.1379	-.1380
90.000	-.0199	-.0911	-.0689	-.0190	.8636	-.1400
120.000	.1123	.0745	.0321	.0619	.3132	-.1410
135.000	.0250	.0195	.0188	.2850	.3559	
147.000	.0204	.0185	.0490	.1398	.3887	-.1674
162.000	.0164	-.0431	.0144	.0807	.5791	
180.000	.0111	-.0242	-.0549	.0391	.4731	-.1767
198.000	.0108	-.0535	-.0487	.0497	.4302	
213.000	-.1609	-.1219	-.0609	.0487	.0060	-.1707
225.000	-.0232	-.0110	-.0579	.0581	.1587	
240.000	.0411	-.0186	-.0695	.0595	.1049	-.1330
270.000	-.0742	-.1321	-.0629	.0881	.4455	-.1397
300.000	.0190	-.0033	-.0378	-.0220	.1779	-.1410
330.000	-.0545	-.0504	-.0325	-.0294	-.0009	-.1424

ARC97-019 IA81 LVAP(ALLML SEALED) EXTERNAL TANK (RETT45)

ALPHAT(4) = -.377 BETAT (3) = -2.361

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6984	.2220	.3556	.8538	.8233	.2349	.0080	-.0329	-.0787	-.0806	.1095	-.0539	.0216	.0714	.0336
30.000		.2949	.3360	.8906	.6372	.2618	.0275	-.0160	-.0632	-.0609	.1281	.0395	-.0042	-.0090	-.0423
60.000		.3171	.3327	.9210	.6671	.2801	.0416	-.0081	-.0569	-.0551	.1528	.3817	-.1065	-.1449	-.1254
90.000		.3241	.3284	.9384	.6904	.2910	.0439	-.0028	-.0480	-.0504	.4296	.4939	-.234	-.1877	-.0347
120.000		.3254	.3297	.9227	.6814	.2788	.0389	-.0094	-.0563	-.0541	.1631	.3351	-.050.	-.1103	-.0868
135.000			.3294	.9187	.6568	.2818	.0336	-.0101	-.0573	-.0618	.1405	.1097	.0733	.0737	.0593
147.000		.3201	.3290	.9086	.6625	.2630	.0343	-.0157	-.0655	-.0655	.1405	.1074	.1888	.2697	.0972
162.000			.3322	.8985	.6419	.2415	.0118	-.0204	-.0652	-.0746	.1261	.1064	.2030	.1971	.0702
180.000	1.6984	.3128	.3371	.8595	.6409	.2392	.0051	-.0306	-.0714	-.0803	.1145	.1110	.2020	.5091	.1025
198.000			.3395	.8330	.7289	.2580	-.0074	-.0335	-.0777	-.0846	.0901	.0514	.1967	.0803	.2429
213.000		.2869	.3589	.7304	.0000	.0608	-.0670	-.0187	-.0823	-.0880	.0125	.0709	.1733	.1944	.1717
225.000			.4149	.8097	.6339	.2395	.0058	-.0579	-.0806	-.0752	.0828	.1269	.0678	.1776	.0800
240.000		.2634	.3655	.7950	.6442	.1818	-.0121	-.0540	-.0984	-.0914	.0865	.1418	.0009	-.0673	-.0545
270.000		.2989	.3477	.7718	.5728	.1726	-.0220	-.0553	-.0974	-.0991	.2275	.6468	-.2267	-.1745	-.0301
300.000		.2879	.3622	.7891	.5761	.2043	-.0197	-.0540	-.0967	-.0937	.0898	.1534	-.0047	-.1283	-.1336
330.000		.2455	.3632	.8253	.5887	.2043	-.0055	-.0431	-.0927	-.0898	.0895	.0000		-.0090	-.0021

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0241	-.0544	-.0265	-.0154	-.0169	-.1348
30.000	-.0501	.0061	-.0186	-.0121	.0374	-.1372
60.000	.0124	.0104	-.0087	-.0042	.1521	-.1322
90.000	-.0327	-.1081	-.0573	-.0210	.6557	-.1312
120.000	.0660	.0587	.0115	.0467	.2739	-.1318
135.000	-.0011	.0244	-.0196	.2315	.3225	
147.000	-.0034	-.0063	.0168	.1368	.4208	-.1688
162.000	.0680	-.0635	.0023	.0743	.4970	
180.000	.0006	-.0569	-.0835	.1328	.4377	-.1684
198.000	.0131	-.0007	-.0223	.0756	.3470	
213.000	-.1333	-.1064	-.0460	.0694	.0747	-.1791
225.000	-.0258	.0042	-.0690	.0773	.1682	
240.000	.0578	.0082	-.0519	.0673	.1521	-.1348
270.000	-.0573	-.1196	-.0542	.0327	.4921	-.1375
300.000	.0226	.0042	-.0266	-.0212	.1977	-.1395
330.000	-.0471	-.0443	-.0299	-.0223	.0006	-.1441

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT45)

ALPHAT(4) = -.377 BETAT (4) = -.185

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6981	.2621	.3794	.8748	.8866	.2343	.0102	-.0313	-.0755	-.0796	.1148	-.0542	.0170	.0777	.0413
30.000		.3045	.3532	.8778	.6400	.2422	.0144	-.0286	-.0706	-.0749	.1181	.0311	-.0088	-.0048	-.0110
60.000		.3264	.3476	.8821	.6384	.2449	.0184	-.0276	-.0712	-.0742	.1218	.2901	-.1068	-.1424	-.1332
90.000		.3314	.3459	.8845	.6420	.2422	.0177	-.0256	-.0706	-.0742	.3748	.4909	-.233	-.1995	-.0347
120.000		.3410	.3473	.8738	.6450	.2528	.0147	-.0276	-.0708	-.0732	.1295	.2768	-.043_	-.1117	-.0545
135.000			.3473	.8815	.6360	.2515	.0194	-.0237	-.0709	-.0769	.1145	.1017	.0392	.1279	.0525
147.000		.3343	.3442	.8878	.6433	.2386	.0147	-.0299	-.0732	-.0739	.1205	.1110	.1792	.2547	.1067
162.000			.3507	.8975	.6404	.2449	.0118	-.0238	-.0752	-.0766	.1165	.0964	.1909	.1002	.0821
180.000	1.6981	.3184	.3547	.8795	.6796	.2277	.0008	- 1212	-.0716	-.0759	.1225	.0891	.2098	.4999	.1470
198.000			.3662	.8781	.7564	.2835	-.0002	-.0244	-.0699	-.0769	.0858	.0812	.1741	.1078	.2632
213.000		.2886	.3798	.8441	.0000	.0857	-.0534	-.0040	-.0712	-.0776	.0258	.1090	.1758	.2213	.1746
225.000			.4446	.8807	.7168	.2752	.0220	-.0409	-.0689	-.0638	.0718	.1110	.0876	.1776	.0973
240.000		.2582	.3748	.8813	.6922	.2182	.0091	-.0370	-.0855	-.0806	.1151	.1792	-.0104	-.0759	-.0466
270.000		.3214	.3748	.8910	.6287	.2129	-.0005	-.0396	-.0840	-.0830	.2685	.6520	-.2348	-.1691	-.0407
300.000		.3231	.3741	.8813	.6274	.2416	.0015	-.0343	-.0930	-.0816	.1115	.1947	-.0147	-.1309	-.1299
330.000		.3035	.3758	.8846	.6325	.2307	.0091	-.0307	-.0809	-.0798	.1055	.0000		-.0058	-.0030

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0194	-.0533	-.0172	-.0112	-.0049	-.1319
30.000	-.0415	-.0138	-.0222	-.0109	-.0025	-.1416
60.000	.0102	.0049	-.0169	-.0145	.1826	-.1319
90.000	-.0451	-.1229	-.0691	-.0290	.6907	-.1323
120.000	.8428	.0435	-.0215	.0290	.3270	-.1436
135.000	-.0319	.0019	-.0407	.2526	.2963	
147.000	.0277	-.0361	-.0156	.1574	.2572	-.1685
162.000	.0283	-.0334	-.0300	.1759	.3621	
180.000	.0181	-.0592	-.0004	.1535	.3016	-.1715
198.000	.0142	.0383	-.0234	.1152	.2565	
213.000	-.1238	-.0638	-.0112	.1215	.1348	-.1748
225.000	-.0201	.0171	-.0498	.1094	.1786	
240.000	.0751	.0240	-.0284	.0606	.1876	-.1422
270.000	-.0425	-.1064	-.0442	-.0039	.5319	-.1386
300.000	.0175	.0118	-.0218	-.0099	.1840	-.1372
330.000	-.0428	-.0162	-.0251	-.0116	.0207	-.1439

ARC97-019 IAB1 LVAP(ALL.HL SEALED) EXTERNAL TANK (RETT45)

ALPHAT(4) = -.358 BETAT (5) = 2.013

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE C°

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7048	.2388	.3857	.8696	.9119	.2348	.0110	-.0293	-.0732	-.0775	.1170	-.0510	.0302	.0713	.0367
30.000		.2706	.3738	.8353	.6291	.2252	-.0015	-.0402	-.0834	-.0859	.1014	.0328	-.0056	.0053	.0015
60.000		.3242	.3583	.8106	.5976	.2041	-.0081	-.0487	-.0883	-.0912	.1000	.2135	-.1020	-.1394	-.1403
90.000		.3394	.3586	.8079	.5946	.2018	-.0098	-.0 37	-.0896	-.0926	.3279	.5321	-.231	-.1985	-.0291
120.000		.3358	.3566	.8052	.5983	.2071	-.0091	-.0444	-.0850	-.0899	.1033	.2280	-.031	-.1047	-.0465
135.000			.3533	.8289	.5959	.2087	-.0005	-.0428	-.0857	-.0879	.0940	.1021	.0200	.1684	.0443
147.000		.3315	.3520	.8463	.6079	.2071	-.0035	-.04 4	-.0797	-.0859	.0974	.1194	.1525	.2298	.0752
162.000			.3550	.8610	.6129	.2377	.0100	-.0344	-.0817	-.0805	.1063	.1127	.1892	.1876	.0933
180.000	1.7048	.3159	.3554	.8750	.6934	.2143	.0150	-.0173	-.0759	-.0748	.1160	.0875	.2338	.4270	.0699
198.000			.3718	.8990	.7511	.2954	.0206	-.0163	-.0571	-.0704	.1143	.0958	.2592	.1222	.1962
213.000		.2994	.3835	.8963	.0000	.1204	-.0385	.0170	-.0577	-.0627	.0421	.0985	.1994	.2166	.177:
225.000			.4509	.9245	.8115	.3155	.0391	-.0140	-.0476	-.0443	.0987	.0925	.0466	.1114	.1271
240.000		.3225	.3672	.9487	.7226	.2661	.0397	-.0034	-.0674	-.0614	.1433	.2300	-.0357	-.0880	-.0426
270.000		.3275	.3705	.9623	.6759	.2654	.0364	-.0084	-.0590	-.0614	.3176	.6901	-.2371	-.1745	-.0403
300.000		.3119	.3745	.9404	.6679	.2769	.0331	-.0057	-.0587	-.0604	.1429	.2592	-.0241	-.1330	-.1225
330.000		.2898	.3761	.9139	.6480	.2535	.0255	-.0146	-.0667	-.0630	.1286	.0000		-.0044	-.0314

X/LT	.5528	.6340	.7423	.8506	.9284	.9838
PHI						
.000	-.0802	-.0981	-.0810	-.0141	-.0184	-.1388
30.000	-.0406	-.0304	-.0243	-.0124	-.0131	-.1468
60.000	.0094	.0032	-.0207	-.0216	.2117	-.1392
90.000	- 0505	-.1266	-.0662	-.0276	.6412	-.1388
120.000	357	.0186	-.0451	.0568	.1228	-.1432
135.000	-.0189	-.0217	.0758	.1563	.2463	
147.000	.0005	-.0563	-.0260	.1412	.1983	-.1555
162.000	-.0054	-.0702	.0173	.1507	.2845	
180.000	.0035	-.0316	-.0328	.1323	.2963	-.1624
198.000	-.0403	.0064	-.0109	.1026	.3057	
213.000	-.055'	-.0227	.0308	.1155	.1905	-.1634
225.000	-.0123	.0335	-.0206	.1285	.2299	
240.000	.0920	.0318	.0080	.0678	.1114	-.1618
270.000	-.0334	-.1009	-.0335	-.0050	.6538	-.1438
300.000	.0150	.0057	- 0124	-.0067	.1664	-.1415
330.000	-.0531	.0077	-.0177	-.0184	.0558	-.1465

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT45)

ALPHAT(4) = -.350 BETAT (6) = 3.542

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2103	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7088	.2051	.3805	.8637	.6842	.2309	.0087	-.0316	-.0750	-.0770	.1107	-.0548	.0394	.0565	.0178
30.000		.2193	.3700	.7947	.5696	.2027	-.0081	-.0495	-.0908	-.0954	.0801	.0316	-.0149	-.0002	.0057
60.000		.2851	.3459	.7414	.5475	.1829	-.0245	-.0660	-.1023	-.1028	.0774	.1512	-.0933	-.1363	-.1408
90.000		.3138	.3429	.7010	.5405	.1731	-.0310	-.0708	-.1046	-.1045	.2978	.5863	-.231	-.1776	-.0259
120.000		.3089	.3399	.7267	.5488	.1754	-.0277	-.0633	-.1029	-.1065	.0848	.1797	-.0191	-.0816	-.0677
135.000			.3376	.7637	.5531	.1770	-.0250	-.0650	-.1003	-.1004	.0678	.0983	.0351	.1926	.0169
147.000		.3046	.3336	.7954	.5677	.1948	-.0214	-.0551	-.0940	-.0981	.0808	.1076	.1628	.2500	.0169
162.000			.3338	.8230	.5839	.2253	-.0026	-.0470	-.0842	-.0904	.0854	.0798	.1884	.0084	.0800
180.000	1.7088	.2847	.3424	.8574	.7342	.1997	.0218	-.0250	-.0723	-.0800	.1047	.0841	.2721	.5112	.0429
198.000			.3601	.9077	.6720	.2990	.0462	-.0185	-.0447	-.0639	.1233	.0517	.2348	.1290	.2495
213.000		.2930	.3585	.9204	.0000	.1129	-.0402	.0276	-.0526	-.0595	.0788	.1076	.2101	.2394	.1992
225.000			.4646	.9978	.8567	.3342	.0479	.0092	-.0283	-.0304	.1496	.1079	.0301	.1041	.1044
240.000		.3343	.3720	1.0190	.7829	.3000	.0621	.0230	-.0428	-.0374	.1802	.2906	-.0361	-.0871	-.0588
270.000		.3429	.3746	1.0548	.7382	.3069	.0660	.0190	-.0324	-.0337	.3894	.7144	-.2418	-.1846	-.0282
300.000		.3267	.3753	1.0319	.7167	.3121	.0565	.0141	-.0418	-.0418	.1768	.3438	-.0295	-.1332	-.1151
330.000		.2937	.3674	.9690	.6724	.2717	.0370	-.0066	-.0605	-.0572	.1396	.0000		-.0272	-.0633

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0327	-.0594	-.0346	-.0274	-.0252	-.1456
30.000	-.0492	-.0406	-.0340	-.0182	-.0138	-.1429
60.000	.0126	-.0038	-.0316	-.0248	.1901	-.1416
90.000	-.0837	-.1240	-.0765	-.0040	.6148	-.1376
120.000	.0057	-.0013	-.0772	.0743	.0979	-.1270
135.000	-.0561	-.0795	-.0937	.1049	.2140	
147.000	-.0156	-.0693	-.0323	.1068	.1442	-.1569
162.000	-.0005	-.0663	-.0320	.1072	.2441	
180.000	-.0084	-.0521	-.0698	.0841	.4028	-.1682
198.000	-.0814	-.1122	.0335	.0624	.4786	
213.000	-.0156	.0113	.0488	.0940	.2002	-.1645
225.000	.0222	.0241	.0213	.1247	.2270	
240.000	.1053	.0456	.0318	.0818	.2095	-.1649
270.000	-.0285	-.0937	-.0379	.0050	.6751	-.1453
300.000	.0090	-.0006	-.0162	.0026	.1636	-.1453
330.000	-.0623	.0078	-.0142	-.0259	.0449	-.1529

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT45)

ALPHAT(4) = -.342 BETAT (7) = 6.262

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7083	.1963	.3696	.8884	.6896	.2393	.0086	-.0321	-.0754	-.0765	.1062	-.0637	.0295	.0334	-.0060
30.000		.2155	.3441	.7569	.5414	.1863	-.0210	-.0602	-.1011	-.1060	.0543	.0307	-.0305	-.0154	-.0080
60.000		.2631	.3273	.6720	.5029	.1505	-.0460	-.0823	-.1162	-.1175	.0533	.0620	-.0961	-.1337	-.0902
90.000		.2866	.3253	.5993	.4833	.1416	-.0532	-.0869	-.1202	-.1225	.2864	.6209	-.236	-.1116	-.0396
120.000		.2889	.3233	.6604	.5045	.1426	-.0463	-.0809	-.1175	-.1198	.0543	.1219	-.009.	-.0490	-.0725
135.000			.3180	.7151	.5045	.1478	-.0420	-.0783	-.1110	-.1131	.0407	.0874	.0778	.1685	-.0274
147.000		.2869	.3124	.7475	.5284	.1804	-.0282	-.0628	-.1070	-.1064	.0533	.0871	.1625	.2147	.0170
162.000			.3120	.7926	.5636	.2005	-.0179	-.0527	-.0869	-.0957	.0620	.0603	.1676	-.0111	.0351
180.000	1.7083	.2796	.3146	.8690	.7261	.2120	.0197	-.0323	-.0695	-.0792	.1019	.0897	.2515	.4143	.0469
198.000			.3301	.9318	.5967	.2976	.0685	-.0238	-.0327	-.0507	.1291	.0818	.2203	.1125	.3663
213.000		.3197	.3271	.9231	.0000	.1074	-.0598	.0354	-.0550	-.0661	.1002	.1116	.2035	.2038	.2397
225.000			.4624	1.0082	.8799	.3653	.0582	.0279	-.0155	-.0209	.1804	.1225	.0182	.0736	.1443
240.000		.3914	.3822	1.0533	.8534	.3370	.0853	.0423	-.0276	-.0175	.2128	.3325	-.0296	-.0738	-.0590
270.000		.3967	.3952	1.0965	.7970	.3525	.0955	.0443	-.0125	-.0111	.4378	.7491	-.2392	-.1741	-.0047
300.000		.3775	.3812	1.0643	.7665	.3522	.0873	.0390	-.0219	-.0219	.2083	.3997	-.0273	-.1274	-.1001
330.000		.3296	.3610	.9920	.6949	.3008	.0530	.0088	-.0474	-.0474	.1524	.0000		-.0422	-.0794

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0502	-.0567	-.0453	-.0437	-.0469	-.1405
30.000	-.0587	-.0505	-.0364	-.0276	-.0076	-.1469
60.000	.0070	-.0143	-.0436	-.0292	.1702	-.1422
90.000	-.1084	-.0585	-.0783	-.0032	.6371	-.1379
120.000	.0120	-.0327	-.0704	.0672	.1242	-.1302
135.000	-.0291	-.0975	-.0862	.0715	.1917	
147.000	-.0653	-.0875	-.0548	.0826	.1810	-.1425
162.000	-.0686	-.1130	-.1194	.1077	.2450	
180.000	-.0732	-.0552	-.0914	-.0250	.3705	-.1602
198.000	-.1136	-.1847	.0372	-.0276	.6642	
213.000	.0498	.0082	.0560	.0978	.2387	-.1615
225.000	.0642	.0502	.0283	.1776	.2709	
240.000	.1267	.0783	.0491	.0853	.3417	-.1911
270.000	-.0045	-.0757	-.0977	.0091	.6662	-.1479
300.000	.0136	-.0023	-.0263	-.0210	.1833	-.1479
330.000	-.0538	-.0007	-.0260	-.0318	.0330	-.1665

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT45)

ALPHAT(5) = 1.794 BETAT (1) = -.163

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6992	.1871	.4054	.9473	.8330	.2744	.0366	-.0060	-.0537	-.0603	.1514	-.0347	.0112	.0903	.0598
30.000		.2061	.4523	.9196	.6767	.2747	.0359	-.0087	-.0554	-.0613	.1478	.0335	.0222	.0128	.0058
60.000		.2948	.3476	.9019	.6598	.2635	.0300	-.0166	-.0636	-.0687	.1368	.2457	-.0630	-.0987	-.1216
90.000		.3294	.3430	.8714	.6402	.2418	.0135	-.0282	-.0712	-.0757	.3636	.4826	-.226'	-.1772	-.0406
120.000		.3244	.3456	.8266	.6102	.2207	-.0024	-.0450	-.0850	-.0872	.1061	.2512	-.086.	-.1544	-.1019
135.000			.3476	.8240	.5973	.2243	-.0040	-.0431	-.0867	-.0925	.0878	.0613	.0301	.0352	.0199
147.000		.3230	.3480	.8199	.5989	.2013	-.0074	-.0487	-.0919	-.0929	.0915	.0775	.1561	.209/	.0578
162.000			.3534	.8129	.5920	.2000	-.0169	-.0491	-.0933	-.0976	.0838	.0885	.1056	.1355	.0512
180.000	1.6992	.3131	.3564	.8029	.6192	.1894	-.0245	-.0471	-.09'3	-.0976	.0858	.0789	.1684	.3965	.1451
198.000			.3627	.8046	.6903	.2401	-.0239	-.0468	-.0916	-.0993	.0655	.0815	.1437	.0847	.2886
213.000		.3097	.3732	.7872	.0000	.0705	-.0679	-.0277	-.0900	-.0946	.0039	.0984	.1605	.1830	.1398
225.000			.4187	.8157	.7050	.2421	-.0047	-.0557	-.0851	-.0784	.0435	.0885	.0629	.0904	.0710
240.000		.3141	.3729	.8403	.6382	.2098	-.0133	-.0448	-.0999	-.0895	.0958	.1783	-.0644	-.1236	-.0913
270.000		.3134	.3722	.8918	.6259	.2141	.0049	-.0402	-.0902	-.0814	.2480	.6835	- 2303	-.1891	-.0505
300.000		.2832	.3819	.9061	.6485	.2546	.0165	-.0237	-.0767	-.0730	.1254	.1793	.0431	-.0920	-.1164
330.000		.2087	.4465	.9300	.6713	.2665	.0310	-.0102	-.0633	-.0607	.1391	.0000		-.0008	.0132

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0050	-.0292	-.0119	.0023	-.0036	-.1301
30.000	-.0183	-.0305	-.0046	-.0010	-.0026	-.1397
.60.000	.0159	.0399	.0053	-.0102	.1538	-.1307
90.000	.0547	.0139	-.0224	-.0148	.5224	-.1307
120.000	.0211	.0284	-.0145	.0415	.3262	-.1324
135.000	.0241	-.0059	-.0330	.2243	.3034	
147.000	.0113	-.0379	-.0043	.1654	.2783	-.1663
162.000	.0037	-.0501	-.0125	.1614	.3511	
180.000	-.0019	-.0805	.0099	.1542	.2581	-.1673
198.000	.0119	.0244	-.0253	.1374	.2172	
213.000	-.1342	-.0762	-.0125	.1397	.1410	-.1763
225.000	-.0016	.0020	-.0471	.1229	.1759	
240.000	.0517	.0142	-.0280	.0692	.2266	-.1380
270.000	.0662	-.0142	-.0372	.0088	.4365	-.1337
300.000	.0205	.0393	-.0026	-.0170	.1487	-.1340
330.000	-.0190	-.0333	-.0099	-.0100	.0101	-.1427

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT45)

ALPHAT(6) = 3.390 BETAT (1) = -4.591

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6788	.2137	.3904	1.0052	.9092	.3136	.0646	.0196	-.0352	-.0303	.1777	-.0198	.0253	.0804	.0537
30.000		.3468	.3590	1.0540	.7405	.3587	.0939	.0450	-.0111	-.0083	.2180	.0675	.0607	.0296	-.0010
60.000		.3768	.3234	1.0570	.7704	.3607	.0955	.0454	-.0134	-.0052	.2190	.4369	-.0157	-.0581	-.0794
90.000		.3581	.2977	1.0182	.7279	.3228	.0682	.0193	-.0296	-.0279	.4494	.5559	-.244	-.1749	-.0310
120.000		.3379	.2869	.9126	.6469	.2553	.0331	-.0125	-.0632	-.0623	.1241	.2385	-.120.	-.1732	-.0949
135.000			.2938	.8451	.5997	.2306	.0080	-.0343	-.0827	-.0796	.0978	.0439	-.0432	-.0597	.0102
147.000		.3241	.3010	.8017	.5731	.2171	-.0129	-.0498	-.0986	-.0876	.0935	.055.	.0766	.1998	.0768
162.000			.3115	.7515	.5323	.1657	-.0247	-.0652	-.1055	-.0996	.0572	.0776	.1437	.2017	.0715
180.000	1.6788	.3066	.3142	.7007	.5074	.1647	-.0392	-.0771	-.1134	-.1096	.0415	.0720	.2110	.4013	.0606
198.000			.3082	.6553	.6283	.1772	-.0557	-.0824	-.1177	-.1166	.0299	.0482	.1599	.0560	.2158
213.000		.2829	.3204	.5039	.0000	.0145	-.1057	-.0695	-.1213	-.1210	-.0364	.0455	.1470	.1546	.1071
225.000			.3402	.5804	.4795	.1726	-.0448	-.0949	-.1070	-.1083	-.0044	.0710	.0375	.1143	-.0010
240.000		.2681	.3142	.5745	.5223	.1341	-.0521	-.0895	-.1193	-.1230	.0355	.1216	-.0862	-.1357	-.1014
270.000		.2305	.3198	.6953	.5084	.1469	-.0429	-.0791	-.1110	-.1116	.1444	.6076	-.2435	-.1716	-.0379
300.000		.1692	.3422	.7591	.5489	.1973	-.0158	-.0540	-.0909	-.0963	.0732	.0746	.1193	-.0497	-.0741
330.000		.1224	.3949	.9049	.6340	.2569	.0229	-.0194	-.0609	-.0670	.1198	.0000		.0478	.0376

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0113	-.0104	-.0140	-.0018	-.0108	-.1214
30.000	-.0118	.0067	.0243	.0135	.0550	-.1207
60.000	.0132	.0541	.0352	.0195	.1416	-.1184
90.000	.1103	.0579	.0246	.0185	.4455	-.1271
120.000	.0824	.0461	.0457	.0811	.4648	-.1261
135.000	.0169	-.0074	.0180	.3205	.4203	
147.000	.0396	.0012	.0262	.1753	.4289	-.1464
162.000	.0027	-.0401	.0003	.1825	.5130	
180.000	-.0187	-.0635	-.0659	.1647	.5553	-.1467
198.000	-.0035	-.0771	-.0178	.0995	.4409	
213.000	-.1654	-.1326	-.0214	.0975	.0630	-.1723
225.000	-.0315	-.0200	-.0174	.1181	.1926	
240.000	.0001	-.0223	-.0468	.1161	.1651	-.1267
270.000	.1179	.0444	-.0458	.0895	.3413	-.1317
300.000	-.0223	.0444	-.0178	-.0310	.1275	-.1301
330.000	-.0147	-.0421	-.0069	-.0196	.0141	-.1267

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT45)

ALPHAT(6) = 3.391 BETAT (2) = -.177

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.8992	.1688	.4381	1.0305	1.0231	.3262	.0704	.0232	-.0298	-.0360	.1892	-.0144	.0220	.1063	.0817
30.000		.1565	.6167	1.0142	.7331	.3170	.0645	.0153	-.0337	-.0366	.1799	.0352	.0580	.0301	.0306
60.000		.2479	.3573	.9431	.6781	.2861	.0455	-.0042	-.0509	-.0575	.1496	.2082	-.0004	-.0570	-.0847
90.000		.3106	.3251	.8563	.6253	.2401	.0113	-.0293	-.0719	-.0760	.3379	.4913	-.237	-.1616	-.0521
120.000		.3192	.3357	.7835	.5782	.2006	-.0115	-.0547	-.0950	-.0968	.0851	.2217	-.119L	-.1860	-.0465
135.000			.3357	.7665	.5576	.1944	-.0243	-.0594	-.0983	-.1035	.0655	.0388	.0296	-.0227	-.0250
147.000		.3119	.3357	.7511	.5537	.1730	-.0257	-.0637	-.1045	-.1079	.0631	.0788	.1342	.1733	.0425
162.000			.3412	.7331	.5404	.1566	-.0382	-.0683	-.1085	-.1136	.0588	.0758	.1604	.1432	.0622
180.000	1.8992	.3083	.3485	.7110	.5941	.1576	-.0428	-.0670	-.1091	-.1156	.0548	.0695	.1733	.3313	.1222
198.000			.3472	.7144	.5553	.2052	-.0419	-.0667	-.1072	-.1150	.0425	.0692	.1502	.0472	.2615
213.000		.3023	.3511	.7074	.0000	.0468	-.0851	-.0476	-.1055	-.1113	-.0170	.0831	.1482	.1611	.1153
225.000			.3985	.7487	.6847	.2046	-.0288	-.0683	-.0948	-.0935	.0418	.0610	.0083	.0398	.0487
240.000		.3149	.3607	.7922	.5742	.2026	-.0267	-.0565	-.1025	-.1029	.0784	.1725	-.0993	-.1650	-.0346
270.000		.3063	.3527	.8691	.6157	.2207	.0041	-.0350	-.0901	-.0877	.2345	.6585	-.2147	-.1845	-.0797
300.000		.2294	.3919	.9464	.6664	.2713	.0325	-.0104	-.0645	-.0652	.1333	.1798	.0990	-.0511	-.0833
330.000		.1651	.5077	1.0241	.7144	.3081	.0566	.0124	-.0454	-.0410	.1593	.0000		.0286	.0190

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0298	-.0028	-.0065	.0181	.0047	-.1264
30.000	.0015	-.0136	.0133	.0115	.0077	-.1291
60.000	-.0215	.0591	.0219	.0006	.1494	-.1351
90.000	.0983	.0609	.0100	.0109	.3994	-.1411
120.000	.0094	.0206	-.0029	.0638	.3213	-.1287
135.000	.0124	-.0159	-.0194	.2161	.3446	
147.000	-.0011	-.0379	.0001	.2128	.3318	-.1530
162.000	-.0261	-.0554	.0158	.2028	.3402	
180.000	-.0159	-.0898	.0263	.1891	.2487	-.1530
198.000	.0104	.0229	-.0063	.1709	.2167	
213.000	-.1456	-.0785	.0039	.1765	.1669	-.1707
225.000	-.0120	-.0065	-.0326	.1558	.2015	
240.000	.030	.0070	-.0181	.0976	.2544	-.1321
270.000	.1197	.0596	-.0102	.0821	.3851	-.1291
300.000	-.0314	.0655	.0158	-.0142	.1531	-.1271
330.000	-.0018	-.0158	.0118	.0010	.0134	-.1321

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT45)

ALPHAT(6) = 3.404 BETAT (3) = 3.546

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7046	.2188	.4257	1.0222	.8646	.3249	.0681	.0204	-.0301	-.0338	.1869	-.0154	.0306	.0852	.0604
30.000		.1098	.4492	.9104	.6504	.2670	.0363	-.0109	-.0594	-.0644	.1317	.0242	.0435	.0509	.0344
60.000		.1570	.3610	.7818	.5655	.2065	-.0019	-.0466	-.0874	-.0909	.1007	.1057	.0524	-.0547	-.0799
90.000		.2463	.3177	.7171	.5151	.1668	-.0364	-.0734	-.1062	-.1056	.2521	.5314	-.231	-.1356	-.0032
120.000		.2760	.3243	.6423	.4932	.1434	-.0572	-.0872	-.1174	-.1177	.0452	.1789	-.098_	-.1596	-.0493
135.000			.3253	.6079	.4816	.1398	-.0483	-.0846	-.1226	-.1224	.0398	.0726	.0620	.1027	-.0355
147.000		.2839	.3210	.6169	.4916	.1260	-.0552	-.0895	-.1200	-.1234	.0319	.0637	.1402	.1950	.0048
162.000			.3330	.6660	.5028	.1552	-.0479	-.0841	-.1180	-.1204	.0352	.0574	.1472	.0433	.0746
180.000	1.7046	.2823	.3284	.7087	.6093	.1326	-.0304	-.0700	-.1105	-.1144	.0435	.0789	.2313	.3899	.0473
198.000			.3211	.7691	.5055	.2105	.0010	-.0709	-.0828	-.0946	.0641	.0822	.1924	.1317	.2127
213.000		.3068	.3251	.7561	.0000	.0409	-.1097	-.0304	-.0996	-.1056	.0172	.0504	.1459	.1370	.1652
225.000			.3999	.8523	.7618	.2424	.0003	-.0334	-.0644	-.0727	.1011	.0501	-.0465	-.0463	.0420
240.000		.3269	.3699	.9339	.6451	.2815	.0267	-.0123	-.0664	-.0681	.1277	.2252	-.1016	-.1630	-.0892
270.000		.3504	.3735	1.0194	.7263	.3104	.0720	.0229	-.0362	-.0355	.3619	.7253	-.2062	-.1900	-.0503
300.000		.3755	.3922	1.0629	.7761	.3574	.0918	.0426	-.0157	-.0137	.2199	.3407	.0786	-.0582	-.0809
330.000		.3491	.4182	1.0578	.7804	.3528	.0951	.0453	-.0171	-.0154	.2142	.0000		.0384	.0041

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0114	-.0107	-.0171	.0076	-.0089	-.1241
30.000	-.0143	-.0351	-.0078	-.0105	.0150	-.1204
60.000	.0094	.0394	-.0091	-.0280	.1198	-.1484
90.000	.0809	.0721	-.0247	.1057	.3881	-.1351
120.000	-.0104	-.0115	-.0567	.1324	.1904	-.1411
135.000	-.0140	-.0845	-.0544	.1571	.2337	
147.000	-.0450	-.0828	-.0032	.1584	.1813	-.1421
162.000	-.0410	-.0951	-.0178	.1456	.2179	
180.000	-.0427	-.0759	-.0889	.1354	.3759	-.1527
198.000	-.0825	-.1010	.0145	.1143	.5169	
213.000	-.0309	-.0131	.0389	.1301	.2401	-.1560
225.000	.0605	-.0035	.0056	.1779	.2744	
240.000	.0783	.0205	.0346	.0778	.3631	-.1377
270.000	.0997	.0516	.0224	.0482	.3372	-.1267
300.000	-.0133	.0497	.0372	.0214	.1252	-.1257
330.000	-.0137	-.0058	.0230	.0089	.0513	-.1294

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT45)

ALPHAT(7) = 6.190 BETAT (1) = -.166

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.7026	.1537	.5440	1.0893	1.0456	.3765	.1010	.0510	-.0041	-.0103	.2311	.0096	.0349	.1206	.1059
30.000		.1415	.5499	1.0429	.7741	.3568	.0902	.0388	-.0133	-.0167	.2155	.0375	.0945	.0680	.0486
60.000		.1709	.4496	.9821	.6942	.3068	.0586	.0100	-.0430	-.0448	.1603	.1999	.0611	-.0228	-.0364
90.000		.2623	.2997	.8552	.6096	.2374	.0077	-.0329	-.0756	-.0773	.3090	.4855	-.245	-.1585	-.1050
120.000		.3053	.3106	.7443	.5390	.1753	-.0259	-.0649	-.1039	-.1062	.0472	.1644	-.1561	-.2090	-.0984
135.000			.3199	.7075	.5088	.1628	-.0405	-.0751	-.1111	-.1135	.0392	.0203	-.0095	-.0664	-.0434
147.000		.3110	.3212	.6815	.5032	.1434	-.0464	-.0804	-.1164	-.1202	.0385	.0657	.1144	.1420	.0189
162.000			.3300	.6414	.4922	.1286	-.0566	-.0871	-.1230	-.1243	.0319	.0515	.1229	.1014	.0539
180.000	1.7026	.2967	.3327	.5906	.5340	.1257	-.0596	-.0838	-.1233	-.1266	.0315	.0581	.1608	.2523	.0852
198.000			.3320	.6026	.4461	.1766	-.0583	-.0874	-.1207	-.1290	.0192	.0501	.1532	.0106	.2282
213.000		.2994	.3383	.6083	.0000	.0218	-.1055	-.0873	-.1226	-.1243	-.0270	.0624	.1242	.1334	.0974
225.000			.3650	.6839	.6438	.1677	-.0524	-.0818	-.1066	-.1062	.0305	.0279	-.0436	-.0216	.0015
240.000		.3149	.3577	.7479	.5234	.1806	-.0358	-.0690	-.1122	-.1102	.0482	.1475	-.1436	-.2019	-.0697
270.000		.2583	.3491	.8563	.6013	.2236	-.0051	-.0416	-.0857	-.0640	.2148	.6428	-.1919	-.1828	-.1551
300.000		.1653	.4754	.9525	.6892	.2907	.0473	.0025	-.0532	-.0549	.1476	.1880	.1552	-.0111	-.0486
330.000		.1425	.5111	1.0463	.7618	.3439	.0840	.0361	-.0217	-.0217	.2002	.0000		.0568	.0535

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0562	.0275	.0065	.0329	.0209	-.1214
30.000	.0256	.0118	.0284	.0250	.0105	-.1301
60.000	-.0040	.0624	.0393	.0122	.1963	-.1188
90.000	.0808	.0809	.0082	.0662	.4932	-.1198
120.000	.0118	.0095	-.0001	.1212	.3027	-.1211
135.000	.0114	-.0245	-.0128	.2543	.3624	
147.000	-.0155	-.0384	.0098	.2612	.3554	-.1610
162.000	-.0405	-.0533	.0481	.2322	.3453	
180.000	-.0307	-.0950	.0316	.2250	.2527	-.1570
198.000	.0009	-.0001	.0194	.2029	.2208	
213.000	-.1553	-.0771	.0204	.2019	.1957	-.1720
225.000	-.0244	-.0192	-.0069	.1917	.2272	
240.000	.0608	.0092	-.0122	.1453	.2517	-.1224
270.000	.1121	.0813	-.0112	.1376	.4819	-.1227
300.000	-.0067	.0746	.0296	-.0033	.1866	-.1234
330.000	.0272	.0069	.0313	.0152	.0150	-.1281

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT46) (30 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = 10.000 ELV-OB = -4.000
RUDDER = .000 SPDBRK = .000

ALPHAT(1) = -7.029 BETAT (1) = .432

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.19[illegible]	.2106	.2323	.2594	.2821	.3362	.390[illegible]	.4445	.4987
PHI															
.000	1.5697	.5416	.6527	.6838	.7415	.1026	-.1455	-.1945	-.2412	-.2276	.0321	.0148	.0573	-.0394	-.1496
30.000		.5960	.6731	.7276	.5107	.0987	-.1381	-.1897	-.2373	-.2223	.0269	-.0308	-.0811	-.1713	-.0977
60.000		.6288	.6751	.7893	.5432	.1316	-.1175	-.1687	-.2212	-.1267	.0367	.0516	-.4559	-.2457	-.0986
90.000		.6569	.6592	.8668	.6120	.1832	-.0824	-.1328	-.1897	.1364	.5012	.0981	-.4938	-.1910	-.1541
120.000		.7275	.6741	.9461	.7013	.2459	-.0216	-.0853	-.1529	-.1343	.1929	.4796	.0751	.0666	.1261
135.000			.7010	.9961	.7393	.2927	.0058	-.0637	-.1313	-.1087	.2094	.1954	.2913	.1541	.0490
147.000		.7852	.7165	1.0301	.7733	.3184	.0201	-.0449	-.1014	-.1027	.2113	.2709	.3636	.2258	-.0909
162.000			.7256	1.0569	.7987	.3457	.0297	-.0034	-.0985	-.0860	.2326	.2741	.4548	-.1377	-.1186
180.000	1.5697	.8458	.7828	1.0719	.8022	.3883	.0598	-.0321	-.0737	-.0840	.2497	.2482	.5499	.3821	.0091
198.000			.7759	1.0680	.7126	.3811	.0792	-.0395	-.0714	-.0666	.2332	.2359	.4391	-.0995	-.0090
213.000		.7722	.8540	.9429	.0000	.0839	-.1325	.0301	-.1114	-.1113	.1344	.2469	.3791	.1293	.1660
225.000			.9027	1.0363	.6389	.2895	.0339	-.0643	-.1205	-.0883	.2045	.2657	.2324	.1306	.0761
240.000		.7058	.7328	.9782	.6934	.3213	-.0291	-.0560	-.1491	-.1215	.2094	.4939	.0850	.0774	.1119
270.000		.6663	.6917	.8970	.6318	.2089	-.0633	-.1156	-.1947	.1137	.4408	.2644	-.4567	-.2221	-.1460
300.000		.6278	.6933	.8074	.5542	.1494	-.1131	-.1642	-.2253	-.1895	.0294	.0349	-.3507	-.2779	-.1077
330.000		.5724	.6600	.7535	.5118	.1080	-.1461	-.1897	-.2427	-.2261	.0184	.0000		-.1731	-.1186

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1238	-.0603	.0115	.0058	.0391	-.2025
30.000	-.0880	-.0577	-.0089	-.0036	.0569	-.2178
60.000	-.0831	-.0841	-.0335	.0112	.1952	-.2119
90.000	-.1956	-.0723	-.0652	.0861	.6334	-.2051
120.000	.0284	-.0102	-.0904	.0567	.2877	-.1979
135.000	.0916	-.0328	-.1296	.2405	.2857	
147.000	.1016	.0139	-.0788	.1746	.2237	-.2145
162.000	-.0380	.0413	-.0516	.1489	.3240	
180.000	.0278	.0759	-.1326	.1367	.3507	-.2100
198.000	-.1196	-.0985	-.0668	.1090	.1991	
213.000	.1209	.0205	-.0581	.1209	.0910	-.2080
225.000	.0790	.0177	-.0935	.1497	.1442	
240.000	.0348	.0037	-.0794	.0802	.2218	-.2132
270.000	-.2305	-.0739	-.0536	.0447	.5789	-.2031
300.000	-.1475	-.0477	-.0352	.0039	.2029	-.2083
330.000	-.0896	-.0610	-.0110	-.0010	.0695	-.2171

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT46)

ALPHAT(2) = -4.878 BETAT (1) = -4.002

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4997
PHI															
.000	1.5662	.6288	.6744	.7780	.7100	.1264	-.1253	-.1757	-.2293	-.2165	.0320	-.0110	.0464	-.0478	-.1279
30.000		.6539	.7029	.8414	.5631	.1730	-.0956	-.1475	-.2070	-.1979	.0578	-.0226	-.1596	-.2102	-.1068
60.000		.7058	.6991	.9216	.6662	.2288	-.0499	-.1100	-.1757	-.1472	.1299	.1063	-.4186	-.2595	-.1129
90.000		.7488	.6939	.9970	.7416	.2922	-.0054	-.0712	-.1374	.2169	.6076	.1751	-.435	-.2527	-.1269
120.000		.7837	.7231	1.0407	.7963	.3302	.0266	-.0365	-.1064	-.0971	.2332	.3397	-.108	.0101	.1829
135.000			.7372	1.0565	.8041	.3515	.0385	-.0215	-.1000	-.0968	.2310	.2293	.2014	.1536	.0578
147.000		.8007	.7485	1.0575	.8044	.3557	.0446	-.0240	-.1080	-.0880	.2307	.2300	.3676	.2237	-.0114
162.000			.7472	1.0462	.7899	.3186	.0234	-.0476	-.0975	-.1030	.2121	.2505	.4469	-.0773	-.1460
180.000	1.5662	.7789	.7437	1.0135	.7564	.2932	.0356	-.0435	-.1342	-.1121	.1910	.2470	.5257	.3421	-.0194
198.000			.7653	.9753	.6472	.3595	-.0237	-.0617	-.1444	-.1368	.1708	.2191	.4034	-.1957	.0508
213.000		.7196	.8330	.7644	.0000	-.0081	-.2193	-.0515	-.1782	-.1475	.0899	.2123	.2856	.0361	.0393
225.000			.8142	.9087	.4755	.1985	-.0439	-.1345	-.1878	-.1566	.1388	.1745	.1944	.0645	.0230
240.000		.6462	.7249	.8707	.5448	.2149	-.1032	-.1297	-.2096	-.0454	.1315	.3756	.0999	.0613	.0450
270.000		.6083	.6925	.8008	.5441	.1123	-.1286	-.1620	-.2314	.0583	.3804	.1995	-.4195	-.2322	-.2137
300.000		.5355	.6511	.7290	.5225	.1209	-.1350	-.1789	-.2392	-.1696	.0162	.1690	-.2854	-.2223	-.0692
330.000		.5455	.6544	.7222	.5171	.1104	-.1398	-.1862	-.2434	-.2174	.0281	.0000		-.0746	-.1363

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1219	-.0594	.0039	-.0030	.0460	-.1767
30.000	-.0635	-.0629	-.0317	-.0327	.0567	-.1964
60.000	-.0744	-.0565	-.0138	-.0078	.2262	-.1867
90.000	-.2237	-.0208	-.0388	-.0152	.7466	-.1818
120.000	.0734	.0080	-.0134	.0283	.3679	-.1789
135.000	.0846	.0151	-.0404	.2552	.4042	
147.000	.1005	.0577	-.0106	.1509	.4292	-.2428
162.000	-.0220	.1049	-.0797	.1174	.5089	
180.000	-.1280	.0526	-.0171	.1270	.5150	-.1893
198.000	-.1270	-.0208	-.0842	.0752	.3974	
213.000	-.0721	-.1026	-.0842	.0634	.0284	-.1899
225.000	-.0182	-.0340	-.0925	.0821	.1607	
240.000	-.0342	-.0131	-.0982	.0827	.1292	-.1663
270.000	-.0922	-.0756	-.0497	.0821	.5468	-.1650
300.000	-.0594	-.0503	-.0346	.0148	.1414	-.1744
330.000	-.1101	-.0503	-.0024	.0011	.1047	-.1834

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT48)

ALPHAT(2) = -4.863 BETAT (2) = .402

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5668	.5968	.6921	.7500	.7809	.1331	-.1232	-.1739	-.2280	-.2142	.0519	.0091	.0735	-.0223	-.1300
30.000		.6038	.6994	.7868	.5485	.1331	-.1181	-.1643	-.2201	-.2064	.0551	.0027	-.0788	-.1384	-.1059
60.000		.6409	.7317	.8229	.5758	.1536	-.0994	-.1550	-.2087	-.1717	.0637	.1276	-.4062	-.2628	-.1231
90.000		.6412	.7672	.8751	.6193	.1914	-.0774	-.1327	-.1867	.1462	.5290	.1055	-.399	-.2615	-.1838
120.000		.6630	.8180	.9328	.6844	.2299	-.0346	-.0937	-.1588	-.1487	.1763	.3807	-.044	-.0057	.0783
135.000			.8381	.9711	.7103	.2636	-.0107	-.0809	-.1502	-.1273	.1861	.1542	.2601	.1139	.0156
147.000		.6901	.8599	.9918	.7324	.2748	-.0161	-.0672	-.1254	-.1256	.1849	.2063	.3174	.1609	-.0916
162.000			.8777	1.0133	.7452	.2905	-.0065	-.0486	-.1201	-.1153	.1985	.2006	.3726	-.0592	-.0998
180.000	1.5668	.7215	.8941	1.0224	.7459	.3319	.0289	-.0648	-.1137	-.1120	.2103	.2233	.4147	.3103	-.0473
198.000			.9176	1.0256	.6408	.3399	.0420	-.0721	-.1004	-.0981	.1731	.2006	.3901	-.0867	-.0276
213.000		.7045	.9772	.9447	.0000	.0504	-.1474	-.0019	-.1353	-.1415	.1016	.2345	.3277	.1174	.1155
225.000			.9808	1.0021	.6098	.2771	.0152	-.0880	-.1357	-.1065	.1836	.1926	.1399	.1092	.0246
240.000		.6761	.8631	.9640	.6671	.3066	-.0465	-.0709	-.1597	-.1354	.1928	.4444	-.0283	.0039	.0914
270.000		.6537	.8084	.9057	.6456	.1975	-.0694	-.1096	-.1834	.1166	.4828	.2630	-.5182	-.2490	-.1552
300.000		.6537	.7413	.8509	.5937	.1764	-.0918	-.1442	-.2109	-.1876	.0602	.1196	-.3164	-.2465	-.0903
330.000		.5741	.6875	.8000	.5602	.1446	-.1231	-.1695	-.2265	-.2053	.0522	.0000		-.1475	-.1250

X/LT	.5528	.6340	.7423	.8505	.9264	.9838
PHI						
.000	-.1297	-.0616	.0125	.0118	.0486	-.1930
30.000	-.0820	-.0597	.0004	.0076	.0803	-.2027
60.000	-.0521	-.0403	-.0458	.0121	.1715	-.1959
90.000	-.2035	-.0672	-.0503	.1009	.6713	-.1908
120.000	.0322	-.0245	-.0787	.0742	.3110	-.1792
135.000	.0580	-.0391	-.1150	.2392	.2937	
147.000	.0707	.0151	-.0615	.1825	.2572	-.2062
162.000	-.0664	.0536	-.0487	.1571	.3183	
180.000	-.0788	.0763	-.1209	.1460	.3065	-.2110
198.000	-.1234	-.0895	-.0573	.1213	.1868	
213.000	.0585	.0112	-.0480	.1282	.1150	-.2207
225.000	.048.	.0035	-.0808	.1433	.1641	
240.000	.0274	.0020	-.0783	.0858	.2364	-.1982
270.000	-.2789	-.0283	-.0398	.0826	.6329	-.1969
300.000	-.0518	-.0407	-.0474	.0094	.1913	-.1995
330.000	-.0765	-.0647	-.0080	-.0062	.0594	-.2030

ARC97-019 1AB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT48)

ALPHAT(2) = -4.810 BETAT (3) = 4.107

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.9553	.6208	.6403	.7712	.8530	.1252	-.1218	-.1723	-.2292	-.2173	.0344	-.0014	.0569	-.0555	-.1442
30.000		.5372	.6237	.7028	.5118	.1090	-.1359	-.1860	-.2374	-.2202	.0353	.0282	-.1300	-.0765	-.1442
60.000		.5376	.6388	.7102	.5069	.1020	-.1388	-.1841	-.2374	-.1073	.0202	.1709	-.3848	-.2302	-.1050
90.000		.6054	.6853	.7525	.5248	.1151	-.1311	-.1768	-.2266	.0814	.4702	.1406	-.360	-.2566	-.2343
120.000		.6122	.7092	.8199	.5878	.1477	-.0985	-.1550	-.2094	-.0410	.1085	.3845	.0656	.0628	.0351
135.000			.7207	.8664	.6142	.1830	-.0954	-.1349	-.1894	-.1797	.1662	.1284	.2108	.0704	-.0423
147.000		.6467	.7437	.9015	.6472	.2212	-.0643	-.1087	-.1712	-.1621	.1402	.1989	.2768	.1527	-.2085
162.000			.7663	.9396	.6851	.2696	-.0176	-.0352	-.1591	-.1459	.1437	.1996	.3109	-.2222	-.1295
180.000	1.9553	.6858	.7825	.9909	.7124	.3248	-.0131	-.0519	-.1330	-.1125	.1827	.2236	.5041	.3223	-.0205
198.000			.8783	1.0329	.6434	.3113	.0674	-.0695	-.0789	-.0712	.1929	.2480	.4424	-.0851	.0150
213.000		.7124	.9238	1.0319	.0000	.1151	-.1167	.0345	-.1078	-.1251	.1431	.2701	.3930	.1775	.1702
225.000			1.0174	1.0572	.7227	.3623	.0872	-.0451	-.0732	-.0521	.2034	.2409	.0433	.1400	.0883
240.000		.7530	.9325	1.0514	.7685	.3976	.0207	-.0168	-.1024	-.0686	.2602	.3813	-.0902	.0275	.1939
270.000		.7476	.8828	1.0029	.7530	.3046	.0016	-.0432	-.1232	.1971	.5783	.3339	-.4504	-.2340	-.1136
300.000		.6826	.8054	.9192	.6816	.2494	-.0394	-.0964	-.1657	-.1453	.1485	.1156	-.3191	-.2499	-.0993
330.000		.6586	.7305	.8344	.5937	.1843	-.0892	-.1413	-.2053	-.1895	.0685	.0000		-.2168	-.1035

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1299	-.0812	-.0103	.0125	.0447	-.1892
30.000	-.1140	-.0507	-.0062	.0459	.1210	-.1950
60.000	-.0678	-.0360	-.0148	.0832	.1720	-.2163
90.000	-.0739	-.0900	-.0615	.1344	.5681	-.1689
120.000	-.0259	-.0145	-.1277	.1370	.1874	-.1915
135.000	.0066	-.0561	-.1098	.1624	.2349	
147.000	.0047	-.0484	-.1181	.1801	.1672	-.1841
162.000	-.0793	-.0263	-.1812	.1538	.2144	
180.000	-.1133	.0015	-.1885	.1201	.3404	-.2047
198.000	-.2962	-.1267	-.0589	.0711	.4193	
213.000	.1287	.0203	-.0114	.0978	.2185	-.2092
225.000	.1189	.0462	-.0439	.1387	.2673	
240.000	.0979	.0322	-.0315	.0784	.2750	-.2105
270.000	-.2243	-.0267	-.0264	.0106	.7429	-.2089
300.000	-.0037	-.0452	-.0226	-.0040	.2224	-.2118
330.000	-.0672	-.0804	-.0519	-.0258	.0775	-.2179

ARC97-019 (A8) LVAP(ALLHL SEALED) EXTERNAL TANK (RETT46)

ALPHAT(3) = -2.575 BETAT (1) = .401

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.064.	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5718	.6564	.7678	.8444	.8644	.1710	-.0953	-.1469	-.2072	-.1948	.0737	.0009	.0941	-.0068	-.1056
30.000		.6752	.7583	.8569	.5960	.1675	-.0968	-.1431	-.1990	-.1861	.0824	.0320	-.1313	-.0875	-.0958
60.000		.6920	.7748	.8676	.6075	.1723	-.0800	-.1371	-.1964	-.1732	.0891	.2047	-.3587	-.2364	-.0980
90.000		.6975	.7857	.8926	.6327	.1963	-.0726	-.1307	-.1873	.1575	.5476	.1677	-.333	-.2643	-.2294
120.000		.7026	.8003	.9222	.6636	.2161	-.0478	-.1050	-.1695	-.1580	.1494	.3067	-.127	-.0290	.0490
135.000			.8067	.9457	.6719	.2385	-.0329	-.0920	-.1676	-.1473	.1583	.1448	.2098	.0726	-.0343
147.000		.7076	.8191	.9598	.6895	.2426	-.0408	-.0964	-.1531	-.1435	.1567	.1820	.2515	.1253	-.1195
162.000			.8270	.9694	.6949	.2359	-.0392	-.0828	-.1508	-.1409	.1656	.1785	.3377	-.0671	-.1167
180.000	1.5718	.7252	.8434	.9788	.6901	.2759	-.0059	-.0961	-.1429	-.1461	.1732	.1926	.3860	.2705	-.0682
198.000			.8582	.9833	.5826	.2979	.0071	-.1040	-.1268	-.1231	.1393	.1642	.3590	-.0846	-.0384
213.000		.7143	.8942	.9444	.0000	.0248	-.1634	-.0205	-.1597	-.1657	.0692	.2206	.2936	.0999	.0863
225.000			.9187	.9732	.5999	.2679	-.0021	-.1097	-.1493	-.1215	.1488	.1537	.0713	.0108	.0015
240.000		.7115	.8402	.9607	.6515	.2851	-.0554	-.0951	-.1667	-.1441	.1663	.3602	-.1157	-.0502	.0743
270.000		.7147	.8123	.9311	.6601	.2078	-.0672	-.1138	-.1735	.1160	.4942	.2742	-.3821	-.2000	-.1940
300.000		.7026	.7753	.9017	.6340	.2075	- 0745	-.1246	-.1928	-.1741	.0910	.2053	-.2764	-.2012	-.1069
330.000		.6694	.7538	.8660	.6109	.1787	-.0897	-.1461	-.2070	-.1882	.0799	.0000		-.1103	-.0951

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1268	-.0654	.0061	.0151	.0440	-.1843
30.000	-.0711	-.0609	-.0006	.0221	.0982	-.1936
60.000	-.0359	-.0194	-.0397	.0179	.1378	-.1856
90.000	-.1838	-.0661	-.0540	.1395	.6879	-.1827
120.000	.0195	-.0216	-.0763	.1316	.3400	-.1690
135.000	.0401	-.0327	-.1014	.2584	.3093	
147.000	.0525	.0191	-.0385	.2095	.2841	-.2017
162.000	-.0951	.0588	-.0606	.1859	.3017	
180.000	-.1518	.0573	-.1005	.1754	.2720	-.2068
198.000	-.1423	-.0986	-.0375	.1474	.1789	
213.000	.0138	-.0022	-.0340	.1612	.1438	-.2151
225.000	.0208	-.0118	-.0682	.1671	.1971	
240.000	.0024	-.0232	-.0698	.1186	.2532	-.1908
270.000	-.2703	-.0143	-.0356	.0956	.6314	-.1904
300.000	-.0353	-.0283	-.0349	.0091	.1744	-.1904
330.000	-.0679	-.0585	.0002	.0030	.0837	-.1955

ARC97-019 1A81 LVAP(ALLML SEALED) EXTERNAL TANK (RETT46)

ALPHAT(4) = -.306 BETAT (1) = -6.101

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5631	.6032	.7216	.8870	.7844	.2099	-.0696	-.1240	-.1877	-.1792	.0864	-.0055	.0543	-.0267	-.0928
30.000		.7368	.6980	.9616	.7135	.2804	-.0180	-.0780	-.1453	-.1378	.1491	.0619	-.1139	-.1709	-.0771
60.000		.7864	.6850	1.0266	.7818	.3372	.0223	-.0398	-.1154	-.1003	.2287	.2382	-.3226	-.1904	-.0670
90.000		.8104	.6929	1.0559	.8072	.3575	.0384	-.0294	-.0981	.2540	.6812	.2111	-.297	-.2191	-.1942
120.000		.7935	.6888	1.0281	.7860	.3226	.0286	-.0382	-.1138	-.1019	.2269	.1912	-.248_	-.0172	.0127
135.000			.6897	1.0033	.7556	.3143	.0097	-.0593	-.1292	-.1106	.1755	.2181	-.0864	.0788	.0266
147.000		.7501	.6740	.9813	.7337	.3029	-.0133	-.0694	-.1330	-.1321	.1592	.1176	.2349	.2257	.0218
162.000			.6809	.9424	.6999	.2639	-.0221	-.0927	-.1707	-.1471	.1384	.1852	.3713	-.0446	-.1511
180.000	1.5631	.7033	.7022	.8940	.6673	.1712	-.0789	-.1019	-.1868	-.1715	.1017	.1542	.4696	.2634	-.0915
198.000			.7169	.8443	.5695	.2496	-.1142	-.1349	-.2122	-.1798	.0832	.1425	.3125	-.2468	-.0031
213.000		.6329	.7497	.6621	.0000	-.0775	-.2451	-.1220	-.2264	-.1026	.0384	.1394	.2286	-.0251	-.0783
225.000			.7360	.7834	.4062	.1293	-.1051	-.1902	-.2240	-.1202	.0972	.0496	.1195	.0048	-.0717
240.000		.5953	.6856	.7584	.4958	.1318	-.1429	-.1735	-.2404	.0019	.0753	.2854	-.0767	-.0130	-.0635
270.000		.5356	.6643	.6986	.5125	.1041	-.1363	-.1864	-.2323	.0570	.4725	.1874	-.2298	-.1791	-.1394
300.000		.5713	.6530	.7442	.5268	.1116	-.1344	-.1786	-.2317	-.1836	.0524	.3490	-.1652	-.1369	-.0371
330.000		.5878	.7210	.8122	.5622	.1410	-.1111	-.1594	-.2150	-.2016	.0517	.0000		-.0494	-.1062

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0867	-.0691	-.0390	.0285	.0788	-.1784
30.000	-.0135	-.0193	-.0381	-.0301	.0682	-.1753
60.000	-.0289	-.0301	-.0134	.0108	.2349	-.1622
90.000	-.2149	-.0431	-.0056	.0108	.6970	-.1813
120.000	.0865	.0238	.0326	.1273	.5844	-.1654
135.000	.0629	-.0_7	-.0283	.3641	.5930	
147.000	.0431	.0238	.0506	.3014	.6151	-.2207
162.000	-.1571	.0172	-.0386	.3162	.6110	
180.000	-.1118	-.0586	-.0137	.2301	.5395	-.1994
198.000	-.1357	-.0475	.0193	.1822	.4304	
213.000	-.1951	-.1502	-.0040	.1658	.0990	-.2048
225.000	-.0647	-.0798	.0115	.1970	.2460	
240.000	-.0534	-.0624	.0499	.1966	.2270	-.1822
270.000	-.1389	-.0943	.0483	.1195	.6145	-.1835
300.000	-.0446	-.0412	.04_1	.0759	.2052	-.1832
330.000	-.0908	-.0608	-.0112	.0659	.1242	-.1953

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT46)

ALPHAT(4) = -.308 BETAT (2) = -4.047

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0744	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5666	.5908	.7912	.8958	.8030	.2106	-.0685	-.1235	-.1841	-.1734	.1020	-.0252	.0808	-.0064	-.0840
30.000		.6[illegible]2	.8227	.9457	.6983	.2574	-.0362	-.0932	-.1568	-.1453	.1398	.0563	-.0748	-.1426	-.0764
60.000		.6976	.8507	.9883	.7404	.2891	-.0127	-.0680	-.1380	-.1255	.1791	.2416	-.3236	-.2070	-.0705
90.000		.7048	.8586	1.0093	.7575	.2992	.0013	-.0630	-.1314	.2189	.5353	.2152	-.259	-.2618	-.2210
120.000		.7023	.8564	.9943	.7464	.2840	-.0063	-.0693	-.1399	-.1264	.1782	.1902	-.240.	-.0392	-.0255
135.000			.8450	.9794	.7255	.2865	-.0214	-.0762	-.1414	-.1331	.1530	.2199	-.0356	.0976	-.0180
147.000		.6837	.8353	.9648	.7135	.2808	-.0220	-.0784	-.1502	-.1495	.1508	.1254	.2908	.1897	-.0233
162.000			.8195	.9428	.6916	.2419	-.0394	-.1098	-.1653	-.1523	.1320	.1817	.3773	-.0846	-.1945
180.000	1.5666	.6667	.8058	.9063	.6692	.1913	-.0485	-.1031	-.1892	-.1654	.1200	.1469	.4562	.2535	-.0626
198.000			.8023	.8770	.5527	.2596	-.0743	-.1308	-.1844	-.1693	.1023	.1510	.2786	-.1956	.0157
213.000		.6528	.8538	.7476	.0000	-.0441	-.2145	-.0947	-.2074	-.1830	.0490	.1475	.2341	.0254	-.0139
225.000			.8010	.8521	.4625	.1704	-.0762	-.1691	-.2083	-.1722	.1099	.0906	.1093	.0125	-.0610
240.000		.5990	.7025	.8287	.5498	.1678	-.1178	-.1546	-.2236	-.1565	.0883	.3113	-.1199	-.0239	-.0321
270.000		.5835	.6790	.7733	.5657	.1381	-.1140	-.1716	-.2185	.0641	.4550	.2073	-.2672	-.2138	-.1157
300.000		.5706	.6491	.8160	.5802	.1530	-.1128	-.1609	-.2166	-.1977	.0772	.3214	-.1865	-.1541	-.0478
330.000		.6021	.7708	.8543	.6008	.1659	-.0936	-.1440	-.2051	-.1918	.0725	.0000		-.0456	-.1017

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0948	-.0614	-.0180	-.0105	.0636	-.1650
30.000	-.0334	-.0467	-.0205	-.0077	.0571	-.1784
60.000	-.0338	-.0180	-.0353	-.0055	.1899	-.1621
90.000	-.2316	-.0142	-.0255	-.0209	.7447	-.1685
120.000	.0477	.0124	.0067	.0889	.4994	-.1593
135.000	.0323	-.0492	-.0413	.3271	.4757	
147.000	.0125	.0089	.0082	.2551	.4637	-.2219
162.000	-.0863	.0518	-.0744	.2842	.5284	
180.000	-.1743	.0199	-.0363	.2475	.5043	-.1981
198.000	-.1649	-.0858	-.0401	.1623	.4030	
213.000	-.1413	-.0941	-.0269	.1332	.1308	-.2044
225.000	-.0485	-.0615	-.0278	.1528	.2264	
240.000	-.0548	-.0562	-.0461	.1629	.2118	-.1560
270.000	-.1328	-.0628	-.0197	.0953	.5484	-.1675
300.000	-.0388	-.0426	-.0143	.0375	.1972	-.1666
330.000	-.0812	-.0517	-.0153	.0088	.0971	-.1682

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT46)

ALPHAT(4) = -.317 BETAT (3) = -1.786

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.5678	.6876	.8100	.9119	.7788	.2079	-.0642	-.1187	-.1800	-.1690	.1110	-.0233	.1012	.0124	-.0794
30.000		.7121	.8210	.9281	.6706	.2328	-.0517	-.1065	-.1715	-.1636	.1236	.0600	-.0630	-.1006	-.0781
60.00		.7260	.8248	.9471	.6864	.2451	-.0420	-.1002	-.1671	-.1524	.1361	.2562	-.3231	-.2082	-.0831
90.000		.7184	.8263	.9551	.6946	.2470	-.0388	-.1005	-.1640	.1848	.5954	.2300	-.269	-.2492	-.2349
120.000		.7241	.8326	.9471	.6943	.2404	-.0423	-.1017	-.1637	-.1473	.1380	.2057	-.222.	-.0326	-.0631
135.000			.8270	.9471	.6835	.2514	-.0448	-.0961	-.1630	-.1582	.1383	.1766	.0491	.0644	-.0634
147.000		.7247	.8244	.9440	.6819	.2458	-.0388	-.1008	-.1731	-.1527	.1396	.1318	.2921	.1377	-.0668
162.000			.8233	.9363	.6734	.2167	-.0627	-.1185	-.1624	-.1655	.1308	.1413	.3703	-.0855	-.2001
180.000	1.5678	.7241	.8233	.9233	.6567	.2151	-.0375	-.1163	-.1794	-.1700	.1364	.1539	.3470	.2449	-.0703
198.000			.8246	.9119	.5375	.2609	-.0438	-.1310	-.1640	-.1543	.0999	.1545	.2787	-.1226	.0477
213.000		.7153	.8614	.8449	.0000	-.0213	-.1968	-.0730	-.1916	-.1920	.0461	.1684	.2401	.0553	.0357
225.000			.8436	.9069	.5160	.2110	-.0492	-.1455	-.1818	-.1563	.1148	.1132	.0581	.0310	-.0574
240.000		.6775	.7661	.8939	.5977	.2082	-.0882	-.1339	-.1997	-.1796	.1122	.3123	-.1572	-.0195	-.0226
270.000		.6936	.7553	.8662	.6163	.1792	-.0863	-.1470	-.1993	.0806	.4618	.2451	-.2819	-.2384	-.1339
300.000		.6819	.7493	.8734	.6192	.1981	-.0854	-.1354	-.1942	-.1815	.1040	.3003	-.2082	-.1675	-.0791
330.000		.6575	.7858	.8999	.6314	.1889	-.0722	-.1276	-.1910	-.1774	.0951	.0000		-.0373	-.0899

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1034	-.0575	-.0075	.0036	.0415	-.1746
30.000	-.0430	-.0503	-.0163	.0155	.0923	-.1838
60.000	-.0323	-.0245	-.0261	.0271	.1580	-.1724
90.000	-.2527	-.0308	-.0374	.1664	.7186	-.1752
120.000	.0117	-.0144	-.0403	.1379	.3729	-.1628
135.000	.0239	-.0424	-.0585	.2343	.4209	
147.000	.0211	-.0040	-.0147	.2239	.4589	-.2143
162.000	-.1106	.0891	.0029	.2505	.4469	
180.000	-.2112	.0445	-.0715	.2264	.3770	-.2114
198.000	-.1625	-.0878	-.0357	.1504	.2819	
213.000	-.1015	-.0516	-.0203	.1492	.1476	-.2064
225.000	-.0380	-.0462	-.0359	.1767	.1950	
240.000	-.0339	-.0510	-.0473	.1539	.2124	-.1695
270.000	-.1493	-.0610	-.0303	.0738	.4958	-.1589
300.000	-.0207	-.0336	-.0071	.0351	.1732	-.1698
330.000	-.0773	-.0532	-.0093	.0028	.1109	-.1778

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT46)

ALPHAT(4) = -.307 BETAT (4) = .376

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0082	.0184	.0400	.0844	.1294	.1744	.2106	.2323	.2594	.2821	.3382	.3904	.4445	.4907
PHI															
.000	1.5702	.7125	.8058	.9165	.7299	.2125	-.0845	-.1158	-.1806	-.1705	.1122	-.0111	.1173	.0146	-.0779
30.000		.7078	.8017	.9092	.6431	.2071	-.0733	-.1227	-.1756	-.1663	.1163	.0660	-.1257	-.0444	-.0788
60.000		.7402	.7866	.9009	.6365	.1995	-.0614	-.1196	-.1843	-.1650	.1179	.2924	-.3159	-.1973	-.0738
90.000		.7487	.7853	.9038	.6337	.1976	-.0664	-.1271	-.1837	.1567	.5576	.2299	-.268	-.2434	-.2239
120.000		.7513	.7875	.9025	.6422	.1953	-.0614	-.1208	-.1796	-.1657	.1204	.2400	-.191[illegible]	-.0224	-.0704
135.000			.7856	.9133	.6365	.2096	-.0570	-.1073	-.1803	-.1689	.1311	.1469	.1293	.0492	-.0913
147.000		.7500	.7862	.9190	.6450	.2118	-.0523	-.1221	-.1762	-.1595	.1351	.1735	.2104	.1104	-.1277
162.000			.7894	.9251	.6485	.1938	-.0730	-.1142	-.1749	-.1656	.1352	.1731	.2597	-.1090	-.1123
180.000	1.5702	.7465	.7941	.9292	.6387	.2197	-.0403	-.1242	-.1705	-.1735	.1390	.1558	.3920	.2417	-.0807
198.000			.8072	.9371	.5289	.2491	-.0293	-.1330	-.1552	-.1468	.1141	.1319	.3428	-.1005	-.0688
213.000		.7349	.8211	.9193	.0000	.0023	-.1931	-.0609	-.1812	-.1871	.0495	.2028	.2824	.0946	.0628
225.000			.8561	.9370	.5737	.2564	-.0259	-.1292	-.1641	-.1379	.0923	.1261	.0027	.0258	-.0359
240.000		.7503	.8142	.9392	.6453	.2450	-.0599	-.1192	-.1756	-.1542	.1358	.2671	-.1898	-.0137	-.0437
270.000		.7667	.8069	.9433	.5712	.2197	-.0601	-.1207	-.1714	.1236	.5106	.2627	-.2951	-.2307	-.2000
300.000		.7654	.8084	.9351	.6668	.2349	-.0532	-.1114	-.1721	-.1593	.1264	.2823	-.2239	-.1772	-.0857
330.000		.7560	.8088	.9272	.6586	.2155	-.0598	-.1154	-.1816	-.1673	.1141	.0000		-.0594	-.0770

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0996	-.0551	-.0042	.0184	.0369	-.1762
30.000	-.0604	-.0538	-.0146	.0228	.1255	-.1914
60.000	-.0335	-.0263	-.0193	.0366	.1942	-.1730
90.000	-.2316	-.0785	-.0715	.1000	.6145	-.1720
120.000	.0107	-.0407	-.0665	.1742	.3653	-.1651
135.000	.0211	-.0505	-.0753	.3174	.3265	
147.000	.0161	-.0155	-.0190	.2652	.3045	-.2330
162.000	-.1297	.0509	-.0698	.2127	.2941	
180.000	-.1949	.0437	-.0645	.2183	.2547	-.2228
198.000	-.1795	-.1118	.0015	.1923	.1991	
213.000	-.0382	-.0219	-.0080	.2020	.1841	-.2089
225.000	-.0109	-.0212	-.0463	.2058	.2359	
240.000	-.0084	-.0309	-.0535	.1555	.2809	-.1787
270.000	-.2206	-.0353	-.0405	.0739	.5918	-.1825
300.000	-.0222	-.0199	-.0114	.0235	.1576	-.1759
330.000	-.0595	-.0470	-.0032	.0174	.1090	-.1806

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT46)

ALPHAT(4) = -.283 BETAT (5) = 2.558

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5689	.6714	.8358	.9127	.8051	.2195	-.0624	-.1148	-.1736	-.1621	.1183	-.0184	.1174	.0091	-.0806
30.000		.6605	.8042	.8776	.6211	.1931	-.0789	-.1279	-.1873	-.1710	.1038	.0729	-.0568	-.0312	-.0896
60.000		.6730	.7444	.8453	.5928	.1727	-.0836	-.1370	-.2023	-.1779	.1007	.3239	-.2989	-.1814	-.0506
90.000		.7074	.7644	.8229	.5793	.1686	-.0945	-.1498	-.2060	.1199	.5260	.2514	-.267	-.2263	-.2330
120.000		.7103	.7619	.8453	.5894	.1645	-.0895	-.1401	-.1973	-.1783	.0969	.2449	-.156	-.0137	-.0740
135.000			.7644	.8624	.5909	.1759	-.0776	-.1363	-.2007	-.1760	.1161	.0999	.1923	.0574	-.1329
147.000		.7196	.7682	.8763	.6067	.1825	-.0795	-.1370	-.1864	-.1795	.1224	.1731	.2552	.1658	-.2130
162.000			.7767	.8966	.6161	.1771	-.0716	-.1093	-.1882	-.1681	.1227	.1656	.2532	-.2238	-.1239
180.000	1.5689	.7190	.7947	.9190	.6170	.2331	-.0520	-.1164	-.1717	-.1589	.1136	.1440	.4303	.2579	-.0871
198.000			.8099	.9427	.5227	.2440	-.0020	-.1317	-.1417	-.1332	.1149	.1989	.3737	-.1133	-.0647
213.000		.7378	.8232	.9367	.0000	.0367	-.1723	-.0393	-.1698	-.1786	.0663	.1919	.3224	.1093	.0915
225.000			.8890	.9682	.6328	.3082	.0052	-.1021	-.1309	-.1147	.1333	.1503	-.0478	.0479	.0058
240.000		.7729	.8526	.9921	.6963	.2843	-.0207	-.0971	-.1424	-.1316	.1593	.2449	-.2089	-.0067	-.0089
270.000		.7863	.8466	.9931	.7290	.2720	-.0201	-.0855	-.1446	.1566	.5591	.2994	-.3178	-.2199	-.1893
300.000		.7710	.8447	.9758	.7136	.2755	-.0282	-.0840	-.1465	-.1373	.1527	.2731	-.2207	-.1725	-.0774
330.000		.7578	.8431	.9505	.6875	.2406	-.0404	-.0990	-.1659	-.1482	.1412	.0000		-.1099	-.0679

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1015	-.0579	-.0115	.0250	.0720	-.1656
30.000	-.0763	-.0554	-.0090	.0206	.0949	-.1646
60.000	-.0392	-.0305	-.0096	.0418	.2213	-.1615
90.000	-.1912	-.0837	-.0759	.0724	.5198	-.1527
120.000	-.0062	-.0468	-.0622	.1873	.2313	-.1561
135.000	.0252	-.0647	-.0618	.2131	.2590	
147.000	.0006	.0038	-.0658	.2215	.2141	-.1672
162.000	-.1507	.0429	-.1252	.2141	.1761	
180.000	-.1445	-.0027	-.1320	.2069	.2875	-.1984
198.000	-.2684	-.1538	-.0206	.1646	.3626	
213.000	.0427	-.0027	-.0031	.1873	.2750	-.2202
225.000	.0230	.0104	-.0453	.2025	.3105	
240.000	.0134	-.0146	-.0437	.1676	.2744	-.1855
270.000	-.2454	-.0224	-.0147	.1733	.6793	-.1848
300.000	-.0218	-.0171	-.0297	.0981	.1799	-.1823
330.000	-.0395	-.0431	-.0197	.0997	.0815	-.1877

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT46)

ALPHAT(4) = -.257 BETAT (6) = 4.090

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5503	.5915	.8199	.8932	.8009	.2116	-.0638	-.1146	-.1778	-.1701	.1082	-.0081	.1001	-.0088	-.0890
30.000		.6109	.7754	.8410	.5905	.1736	-.0974	-.1496	-.2049	-.1917	.0789	.0713	-.0265	-.0402	-.1064
60.000		.5712	.6579	.7933	.5538	.1352	-.1242	-.1646	-.2192	-.1206	.0725	.3551	-.2857	-.1550	-.0441
90.000		.6100	.6930	.7460	.5365	.1248	-.1281	-.1787	-.2258	.1069	.5393	.2726	-.270	-.2114	-.1979
120.000		.5997	.6836	.7829	.5497	.1264	-.1209	-.1652	-.2217	-.1124	.0691	.2451	-.130	-.0365	-.0832
135.000			.6955	.8076	.5500	.1399	-.1121	-.1668	-.2186	-.1936	.1006	.0638	.1657	.0531	-.1793
147.000		.6542	.7149	.8275	.5626	.1456	-.1118	-.1568	-.2040	-.1955	.1082	.1620	.2392	.1249	-.2410
162.000			.7374	.8600	.5786	.1635	-.0837	-.1373	-.2046	-.1866	.0858	.1504	.2498	-.2272	-.1663
180.000	1.5503	.6479	.7709	.8938	.5852	.2298	-.0768	-.1161	-.1887	-.1676	.1107	.1620	.4229	.2413	-.0931
198.000			.8050	.9402	.4939	.2213	-.0071	-.1336	-.1426	-.1282	.1285	.1876	.3530	-.0769	.0177
213.000		.6913	.8126	.9239	.0000	.0294	-.1906	-.0295	-.1672	-.1844	.0744	.1885	.2731	.1227	.0958
225.000			.9169	.9724	.6717	.3461	.0201	-.0812	-.1073	-.0965	.1691	.1879	-.1115	.0518	.0676
240.000		.7337	.9194	1.0013	.7391	.3122	.0107	-.0747	-.1162	-.1086	.1972	.2288	-.2275	-.0118	.0350
270.000		.7428	.9225	1.0264	.7777	.3169	.0154	-.0541	-.1165	.1875	.6049	.3360	-.3262	-.2016	-.1517
300.000		.7290	.9061	1.0051	.7567	.3137	.0041	-.0538	-.1270	-.1095	.1900	.2726	-.2282	-.1737	-.0505
330.000		.7099	.8619	.9543	.7069	.2666	-.0290	-.0846	-.1535	-.1358	.1529	.0000		-.1483	-.0529

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0904	-.0736	-.0242	.0035	.0809	-.1576
30.000	-.0857	-.0547	-.0121	.0409	.1135	-.1642
60.000	-.0473	-.0237	-.0046	.0998	.2508	-.1686
90.000	-.1356	-.0698	-.0566	.1082	.5773	-.1438
120.000	-.0290	-.0364	-.0476	.2203	.2208	-.1679
135.000	.0004	-.0721	-.0109	.2383	.2849	
147.000	-.0423	-.0264	-.0252	.2513	.2311	-.1673
162.000	-.1780	-.0111	-.1622	.2318	.2386	
180.000	-.1835	-.0554	-.1672	.2116	.3440	-.2085
198.000	-.3107	-.1797	-.0267	.1649	.4569	
213.000	.0283	-.0164	.0029	.1832	.3399	-.2169
225.000	.0531	.0207	-.0481	.2042	.3740	
240.000	.0435	.0004	-.0149	.1657	.4012	-.1849
270.000	-.2320	-.0052	-.0288	.0708	.7202	-.1837
300.000	-.0216	-.0199	-.0494	.0148	.2220	-.1840
330.000	-.0318	-.0395	-.0403	-.0103	.0724	-.1918

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT46)

ALPHAT(4) = -.235 BETAT (7) = 6.788

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5539	.5300	.8134	.8727	.7493	.2015	-.0579	-.1163	-.1788	-.1725	.0947	-.0022	.0685	-.0405	-.1018
30.000		.5503	.7522	.7958	.5512	.1417	-.1094	-.1606	-.2149	-.1984	.0553	.0651	-.0362	-.0498	-.1189
60.000		.5303	.6096	.7341	.5056	.0986	-.1334	-.1849	-.2375	-.1111	.0396	.3571	-.2751	-.1268	-.0425
90.000		.5396	.6455	.6790	.4815	.0964	-.1487	-.1958	-.2422	.0841	.5462	.2435	-.264	-.1857	-.1767
120.000		.5499	.6345	.7234	.4915	.0908	-.1337	-.1864	-.2447	-.0599	.0368	.2320	-.0806	-.0751	-.1034
135.000			.6508	.7605	.5006	.1070	-.1303	-.1811	-.2270	-.2196	.0840	.0479	.1304	.0281	-.1944
147.000		.6052	.6767	.7870	.5234	.1163	-.1247	-.1593	-.2176	-.2093	.0871	.1479	.2095	.0955	-.2444
162.000			.7092	.8226	.5397	.1524	-.0851	-.1487	-.2030	-.2003	.0821	.1488	.2339	-.2549	-.2158
180.000	1.5539	.6089	.7517	.8664	.5572	.2206	-.0807	-.1067	-.1950	-.1750	.0915	.1576	.4244	.2184	-.1630
198.000			.8024	.9351	.4905	.2050	-.0043	-.1151	-.1471	-.1200	.1331	.1673	.3697	-.0735	.0377
213.000		.6867	.7870	.9114	.0000	.0027	-.2001	-.0241	-.1819	-.1833	.0874	.1954	.2206	.1319	.1176
225.000			.9146	.9912	.7152	.3870	.0312	-.0499	-.0874	-.0757	.1898	.1892	-.1327	.0243	.1079
240.000		.7594	.9618	1.0309	.7715	.3572	.0512	-.0396	-.0896	-.0639	.2390	.2298	-.2347	-.0254	.0993
270.000		.7716	.9725	1.0684	.8288	.3672	.0577	-.0151	-.0852	.2204	.6427	.3648	-.3344	-.1475	-.1043
300.000		.7510	.9464	1.0318	.7934	.3650	.0421	-.0188	-.0953	-.0871	.2415	.2701	-.2309	-.1723	-.0474
330.000		.7032	.8702	.9642	.7246	.2855	-.0059	-.0642	-.1339	-.1198	.1662	.0000		-.1748	-.0757

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0850	-.0838	-.0149	.0410	.0723	-.1782
30.000	-.0950	-.0521	.0443	.0519	.1085	-.1769
60.000	-.0527	-.0036	.0555	.0684	.2153	-.1911
90.000	-.1102	-.0427	.0038	.1247	.6160	-.1747
120.000	-.0919	-.0371	-.0287	.2312	.2998	-.1838
135.000	-.0437	-.0782	-.0009	.2981	.2873	
147.000	-.0555	-.0564	-.0091	.2919	.2112	-.1766
162.000	-.1279	-.0792	-.2078	.2569	.2034	
180.000	-.2130	-.0673	-.2267	.2355	.3396	-.2206
198.000	-.3364	-.2507	-.0501	.1798	.5427	
213.000	.0654	.0022	.0096	.1996	.3946	-.2376
225.000	.0927	.0727	-.0314	.2156	.4278	
240.000	.0747	.0324	.0243	.1736	.4648	-.1923
270.000	-.2081	-.0324	-.0597	.0397	.7021	-.1936
300.000	-.0251	-.0221	-.0392	.0188	.2456	-.1933
330.000	-.0294	-.0486	-.0585	.0036	.0931	-.2021

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT46)

ALPHAT(5) = 1.933 BETAT (1) = .377

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5661	.6306	.8758	.9630	.7661	.2591	-.0356	-.0894	-.1548	-.1440	.1541	-.0385	.1434	.0395	-.0504
30.000		.6558	.8421	.9435	.6883	.2535	-.0436	-.1031	-.1564	-.1440	.1451	.1016	-.0500	-.0165	-.0597
60.000		.7169	.8001	.9183	.6630	.2263	-.0498	-.1065	-.1728	-.1588	.1498	.3833	-.2665	-.1405	-.0429
90.000		.7175	.7814	.8910	.6320	.1944	-.0639	-.1264	-.1871	.1447	.5413	.2055	-.244	-.2161	-.0609
120.000		.7110	.7758	.8671	.6136	.1722	-.0705	-.1345	-.1942	-.1749	.0900	.1615	-.230[illegible]	-.1035	-.1325
135.000			.7686	.8655	.6021	.1813	-.0950	-.1295	-.1964	-.1882	.1006	.1440	.0576	.0842	-.1256
147.000		.7113	.7664	.8658	.6021	.1779	-.0872	-.1451	-.2017	-.1799	.1075	.1556	.1958	.1154	-.1278
162.000			.7598	.8595	.5992	.1529	-.1012	-.1465	-.2035	-.1882	.1050	.1568	.2272	-.0821	-.1040
180.000	1.5661	.7119	.7620	.8624	.5902	.1732	-.0754	-.1551	-.1983	-.1951	.1093	.1372	.3715	.2077	-.0987
198.000			.7649	.8771	.4752	.2041	-.0611	-.1648	-.1812	-.1705	.0784	.1178	.3265	-.1017	-.0699
213.000		.7050	.7755	.8649	.0000	-.0142	-.2061	-.0906	-.2051	-.2059	.0210	.1705	.2644	.0765	.0428
225.000			.7989	.8876	.5689	.2429	-.0549	-.1493	-.1797	-.1556	.0762	.1047	-.0594	.0413	-.0605
240.000		.7044	.7944	.9045	.6342	.1982	-.0661	-.1424	-.1863	-.1708	.1013	.1833	-.2496	-.0420	-.1238
270.000		.7421	.8098	.9307	.6708	.2279	-.0517	-.1164	-.1838	.1125	.4991	.2719	-.2817	-.2223	-.0392
300.000		.7409	.8353	.9491	.6923	.2560	-.0458	-.1049	-.1673	-.1414	.1603	.3929	-.1626	-.1566	-.0364
330.000		.6907	.8624	.9660	.7055	.2563	-.0321	-.0894	-.1556	-.1439	.1467	.0000		-.0324	-.0708

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0876	-.0285	-.0087	.0229	.0560	-.1630
30.000	-.0492	-.0300	-.0190	.0232	.0901	-.1818
60.000	.0013	-.0251	-.0240	.0525	.1478	-.1649
90.000	-.0275	-.0426	-.0302	.1206	.4539	-.1546
120.000	-.0009	-.0324	-.0218	.2185	.3940	-.1718
135.000	-.0062	-.0700	-.0178	.3273	.3597	
147.000	-.0529	-.0470	-.0010	.3242	.3394	-.2188
162.000	-.1568	-.0221	-.0094	.2890	.3172	
180.000	-.2082	.0009	-.0094	.2714	.2576	-.2097
198.000	-.1884	-.1163	.0505	.2454	.2135	
213.000	-.0830	-.0293	.0334	.2541	.2135	-.2126
225.000	-.0483	-.0249	-.0063	.2557	.2714	
240.000	-.0179	-.0195	-.0132	.1940	.3035	-.1721
270.000	-.0477	-.0454	-.0187	.0706	.4689	-.1762
300.000	-.0006	-.0190	-.0060	.0446	.1450	-.1715
330.000	-.0415	-.0299	-.0042	.0298	.1016	-.1815

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT46)

ALPHAT(6) = 3.556 BETAT (1) = -4.014

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5682	.5602	.8448	.9973	.8720	.3106	-.0012	-.0588	-.1313	-.1218	.1812	-.0218	.1202	.0395	-.0255
30.000		.7379	.8545	1.0398	.7960	.3484	.0261	-.0364	-.1071	-.0942	.2182	.1360	-.0448	-.0456	-.0369
60.000		.7672	.8192	1.0414	.7904	.3403	.0245	-.0392	-.1149	-.1006	.2316	.3879	-.2242	-.1490	-.0431
90.000		.7292	.7741	.9932	.7469	.2961	-.0103	-.0713	-.1394	.2099	.5999	.1797	-.273	-.1540	-.0403
120.000		.6821	.7594	.9163	.6759	.2194	-.0484	-.1065	-.1745	-.1616	.1276	.0494	-.286L	-.1465	-.1102
135.000			.7376	.8788	.6356	.1903	-.0719	-.1326	-.1951	-.1768	.0681	.1114	-.1472	.0507	-.0847
147.000		.6394	.7332	.8540	.6165	.1872	-.0934	-.1423	-.1988	-.1958	.0718	.0653	.1127	.2163	-.0472
162.000			.7198	.8187	.5962	.1690	-.0990	-.1621	-.2237	-.1983	.0646	.1052	.2564	.0497	-.1772
180.000	1.5682	.6182	.7109	.7875	.5871	.1037	-.1161	-.1609	-.2324	-.2129	.0769	.1102	.3176	.1768	-.0621
198.000			.7027	.7645	.4945	.1634	-.1192	-.1879	-.2165	-.1942	.0363	.1049	.2232	-.1603	.1012
213.000		.5549	.7604	.6807	.0000	-.0760	-.2422	-.1372	-.2401	-.2205	.0049	.1152	.1951	.0363	.0209
225.000			.7125	.7141	.4514	.1268	-.1062	-.1966	-.2237	-.1882	.0461	.0625	.0208	.0618	-.0959
240.000		.5546	.6448	.7250	.5155	.1177	-.1342	-.1857	-.2382	-.1892	.0391	.1766	-.2419	-.1114	-.0683
270.000		.5861	.6747	.7935	.5614	.1333	-.1151	-.1714	-.2332	.0497	.3898	.2078	-.3036	-.1598	.0115
300.000		.6123	.7462	.8517	.6055	.1803	-.0862	-.1404	-.2059	-.1863	.1067	.6506	-.0577	-.1269	-.0389
330.000		.5680	.8158	.9248	.6772	.2442	-.0470	-.1024	-.1661	-.1532	.1223	.0000		.0028	-.0698

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0584	-.0390	-.0114	-.0076	.0656	-.1468
30.000	-.0011	.0005	.0042	.0297	.0668	-.1509
60.000	.0400	.0294	.0033	.0788	.1186	-.1430
90.000	.0434	.0307	.0061	.1281	.2083	-.1452
120.000	.0393	.0572	.0348	.2281	.5088	-.1556
135.000	-.0240	-.0225	.0070	.3775	.5684	
147.000	-.0144	-.0195	.0597	.3818	.6118	-.1848
162.000	-.0948	.0198	.0412	.3744	.5172	
180.000	-.1558	-.0902	.0087	.3404	.3876	-.1782
198.000	-.1328	-.0840	.0602	.2398	.3370	
213.000	-.1869	-.0696	.0533	.2135	.1499	-.1958
225.000	-.0719	-.0475	.0498	.2367	.2295	
240.000	-.0275	-.0453	.0477	.2180	.1886	-.1587
270.000	.0095	-.0397	.0303	.1658	.3054	-.1424
300.000	.0036	-.0282	-.0045	.0675	.1702	-.1436
330.000	-.0623	-.0353	-.0250	.0181	.0816	-.1515

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT46)

ALPHAT(6) = 3.564 BETAT (21) = .389

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5642	.5842	.9399	1.0103	.8472	.3101	.0013	-.0589	-.1278	-.1170	.1926	-.0346	.1708	.0675	-.0183
30.000		.6203	.9068	.9820	.7331	.2926	-.0123	-.0745	-.1328	-.1227	.1786	.1376	.0061	.0072	-.0469
60.000		.6696	.8294	.9341	.6809	.2466	-.0421	-.0932	-.1651	-.1509	.1767	.4659	-.1926	-.1273	-.0416
90.000		.6622	.7742	.8765	.6218	.1928	-.0670	-.1268	-.1865	.1408	.5250	.1570	-.277	-.1721	-.0205
120.000		.6600	.7345	.8268	.5815	.1399	-.0941	-.1511	-.2104	-.1797	.0647	.0786	-.2641	-.1407	-.1471
135.000			.7193	.8158	.5634	.1474	-.1200	-.1542	-.2129	-.2034	.0684	.1327	.0099	.0837	-.1335
147.000		.6306	.7033	.8095	.5621	.1477	-.1159	-.1714	-.2209	-.1958	.0803	.1349	.1852	.1184	-.1558
162.000			.6898	.7858	.5559	.1233	-.1293	-.1703	-.2212	-.2072	.0690	.1367	.2102	-.0442	-.1065
180.000	1.5642	.6297	.6989	.7795	.5412	.1355	-.1063	-.1781	-.2163	-.2148	.0653	.1280	.3858	.1739	-.1083
198.000			.6996	.8035	.4127	.1602	-.0879	-.1915	-.2008	-.1914	.0527	.1080	.3050	-.0877	-.0698
213.000		.6060	.7056	.7906	.0000	-.0384	-.2340	-.1185	-.2250	-.2240	.0022	.1445	.2442	.0881	.0258
225.000			.7414	.8337	.5712	.2225	-.0863	-.1635	-.1942	-.1734	.0571	.0861	-.1098	.0950	-.0552
240.000		.6684	.7698	.8631	.6268	.1565	-.0748	-.1505	-.2050	-.1860	.0706	.1064	-.2860	-.0903	-.0819
270.000		.6990	.8053	.9156	.6691	.2378	-.0589	-.1126	-.1857	.1045	.4762	.2707	-.3355	-.1642	.0078
300.000		.7069	.8724	.9653	.7155	.2707	-.0244	-.0847	-.1578	-.1328	.1923	.5097	-.0986	-.1704	-.0422
330.000		.6453	.9351	1.0025	.7513	.2976	-.0035	-.0627	-.1322	-.1171	.1942	.0000		.0043	-.0522

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0678	-.0221	-.0075	.0264	.0738	-.1620
30.000	-.0342	-.0162	-.0137	.0341	.0981	-.1724
60.000	.0294	-.0100	-.0118	.0903	.1299	-.1693
90.000	.0372	.0022	-.0037	.1439	.2500	-.1680
120.000	.0102	-.0156	.0025	.2370	.3494	-.1605
135.000	-.0165	-.0399	-.0016	.4154	.3798	
147.000	-.0923	-.0277	.0092	.3532	.3597	-.1602
162.000	-.1603	-.0333	-.0432	.3350	.3113	
180.000	-.1796	.0031	.0239	.3202	.2747	-.1799
198.000	-.1684	-.0955	.0888	.2908	.2368	
213.000	-.1001	-.0125	.0695	.2908	.2193	-.1931
225.000	-.0544	-.0065	.0316	.2741	.2550	
240.000	.0040	.0078	.0248	.2059	.2346	-.1624
270.000	.0229	-.0034	.0223	.1371	.2290	-.1473
300.000	.0276	-.0065	.0065	.0823	.1042	-.1470
330.000	-.0407	-.0150	.0009	.0392	.0979	-.1639

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT46)

ALPHAT(6) = 3.603 BETAT (3) = 4.094

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5513	.4929	.9144	.9919	.8497	.3136	.0081	-.0533	-.1236	-.1106	.1892	-.0061	.1474	.0377	-.0244
30.000		.4992	.8429	.9037	.6690	.2419	-.0468	-.1063	-.1705	-.1533	.1233	.1233	.0499	.0094	-.0622
60.000		.5626	.6981	.8168	.5856	.1684	-.0986	-.1536	-.2112	-.1150	.1099	.5119	-.1420	-.0932	-.0548
90.000		.5925	.6487	.7598	.5284	.1083	-.1337	-.1820	-.2292	.0672	.4599	.2083	-.237	-.1831	.0026
120.000		.5270	.6209	.6971	.5034	.0906	-.1486	-.1898	-.2342	-.1147	.0235	.1077	-.124.	-.1953	-.1626
135.000			.6353	.6908	.4937	.1031	-.1371	-.1857	-.2404	-.2146	.0703	.0733	.1258	.0545	-.2299
147.000		.5398	.6303	.6961	.5056	.0956	-.1458	-.1950	-.2342	-.2203	.0690	.1246	.2055	.0959	-.2414
162.000			.6240	.7456	.5068	.0758	-.1396	-.1773	-.2416	-.2222	.0543	.1227	.1956	-.1290	-.1149
180.000	1.5513	.5869	.6489	.7771	.5012	.1437	-.1346	-.1711	-.2342	-.2137	.0599	.1208	.3475	.1575	-.1133
198.000			.6838	.8221	.3709	.1383	-.0770	-.1845	-.1997	-.1767	.0574	.1189	.2728	-.0584	.0339
213.000		.6231	.6782	.7821	.0000	-.0759	-.2651	-.1065	-.2416	-.2285	.0118	.1317	.1168	.1149	.0965
225.000			.7963	.8659	.6309	.2989	-.0811	-.1128	-.1634	-.1431	.0888	.0783	-.1987	.0423	.0494
240.000		.6690	.8628	.9234	.6959	.2134	-.0125	-.0907	-.1722	-.1435	.1491	.0880	-.3141	-.1078	-.0334
270.000		.7174	.8971	1.0072	.7712	.3230	.0143	-.0416	-.1239	.2011	.5732	.3288	-.3377	-.1450	.0209
300.000		.7514	.9463	1.0519	.8181	.3743	.0466	-.0193	-.0951	-.0736	.2580	.4310	-.1041	-.1744	-.0380
330.000		.7180	.9554	1.0503	.8108	.3583	.0479	-.0171	-.0900	-.0855	.2315	.0000		-.0535	-.0464

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
000	-.0662	-.0405	-.0257	-.0004	.0962	-.1548
30.000	-.0721	-.0368	-.0251	.0449	.1114	-.1504
60.000	-.0123	-.0330	.0002	.1002	.1862	-.1598
90.000	.0085	-.0332	.0130	.1622	.3469	-.1359
120.000	.0048	-.0375	.0245	.2649	.2340	-.1523
135.000	-.0194	-.0497	.0535	.2900	.3003	
147.000	-.1155	-.0207	0485	.2965	.2590	-.1595
162.000	-.1918	-.0036	.0353	.2940	.2275	
180.000	-.1140	-.1276	.0046	.2937	.3407	-.1715
198.000	-.2646	-.2136	.0338	.2555	.5048	
213.000	-.0169	-.0216	.0437	.2887	.4357	-.2007
225.000	.0175	.0214	.0049	.2925	.4554	
240.000	.0404	.0257	.0136	.2468	.3782	-.1551
270.000	.0488	.0279	.0248	.1365	.1715	-.1397
300.000	.0442	.0239	.0061	.0899	.1121	-.1375
330.000	.0042	.0126	-.0138	.0320	.0834	-.1510

DATE 09 OCT 75 IA81B - PRESSURE SOURCE DATA TABULATION

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT46)

ALPHAT(7) = 6.447 BETAT (1) = .411

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.5621	.5699	.9612	1.0522	.9160	.3622	.0376	-.0253	-.0977	-.0903	.2375	-.0178	.1985	.0971	.0147
30.000		.5961	.9353	1.0110	.7761	.3372	.0156	-.0480	-.1104	-.0992	.2102	.1658	.0484	.0328	-.0237
60.000		.6444	.8120	.9412	.6940	.2665	-.0151	-.0804	-.1522	-.1431	.1969	.5326	-.1242	-.1135	-.0464
90.000		.6248	.7749	.8573	.6088	.1884	-.0754	-.1365	-.1922	-.1523	.4982	.1411	-.307	-.2685	-.0089
120.000		.5999	.7083	.7775	.5438	.1174	-.1131	-.1676	-.2259	-.1523	.0374	-.0034	-.204	-.1695	-.1093
135.000			.6777	.7548	.5201	.1127	-.1390	-.1801	-.2293	-.2168	.0359	.1114	-.0243	.0453	-.1443
147.000		.6055	.6581	.7454	.5163	.1139	-.1440	-.1844	-.2343	-.2187	.0547	.1161	.1693	.1111	-.1971
162.000			.6395	.7250	.5142	.0919	-.1530	-.1937	-.2371	-.2229	.0503	.1189	.1993	.0220	-.1059
180.000	1.5621	.5572	.6389	.7058	.4970	.0995	-.1324	-.1937	-.2368	-.2307	.0462	.1189	.3928	.1341	-.1217
198.000			.6385	.7391	.3512	.1199	-.1147	-.2135	-.2210	-.2083	.0412	.0990	.2908	-.0821	-.0774
213.000		.5450	.6395	.7055	.0000	-.0761	-.2629	-.1432	-.2455	-.2402	-.0200	.1208	.2185	.0779	-.0024
225.000			.6998	.7680	.5597	.1959	-.1212	-.1770	-.2111	-.1887	.0268	.0549	-.1604	.0507	-.0678
240.000		.6288	.7643	.8092	.6100	.1308	-.0969	-.1562	-.2295	-.1963	.0352	.0356	-.2859	-.1893	-.0687
270.000		.6637	.8309	.8979	.6590	.2140	-.0745	-.1225	-.1843	.1019	.4498	.2553	-.3605	-.2250	.0166
300.000		.6771	.8947	.9700	.7299	.2937	-.0094	-.0689	-.1435	-.1318	.1959	.6094	-.0405	-.1304	-.0569
330.000		.6204	9940	1.0340	.7954	.3447	.0252	-.0373	-.1109	-.0924	.2189	.0000		.0290	-.0222

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0417	-.0095	.0021	.0181	.0633	-.1606
30.000	-.0151	.0008	-.0097	.0280	.1121	-.1613
60.000	.0420	-.0017	-.0069	.0823	.1990	-.1744
90.000	.0119	-.0169	.0093	.2093	.4099	-.1791
120.000	-.0067	-.0010	.0105	.2640	.3159	-.1603
135.000	-.0064	.0049	.0230	.3209	.4118	
147.000	-.0582	.0305	.0214	.3163	.3980	-.1540
162.000	-.1508	.0825	-.0222	.3762	.3311	
180.000	-.1753	.1049	.0646	.3947	.2888	-.1914
198.000	-.1334	-.0505	.1259	.3270	.2575	
213.000	-.1149	.0143	.0987	.3221	.2475	-.2042
225.000	-.0516	.0143	.0708	.3117	.2799	
240.000	-.0005	.0118	.0597	.2541	.2491	-.1653
270.000	.0268	-.0244	.0295	.1965	.4159	-.1446
300.000	.0473	.0049	.0078	.0731	.2103	-.1468
330.000	-.0293	.0093	.0082	.0471	.1086	-.1638

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47) (30 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-IB = 10.000 ELV-OB = -4.000
RUDDER = .000 SPDBRK = .000

ALPHAT(1) = -7.019 BETAT (1) = .064

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3901	.4445	.4987
PHI															
.000	1.6659	.3002	.3624	.5772	.5588	.1299	-.0722	-.1107	-.1486	-.1488	.0381	-.0862	.0498	.0342	-.0302
30.000		.3407	.3549	.6715	.5000	.1349	-.0625	-.1026	-.1414	-.1437	.0312	-.0100	-.0193	-.1138	-.1223
60.000		.3564	.3558	.7585	.5472	.1724	-.0391	-.0853	-.1302	-.1291	.0400	.1925	-.2750	-.2653	-.1288
90.000		.3759	.3464	.8708	.6270	.2299	-.0029	-.0403	-.0983	-.0801	.4166	.3429	-.2728	-.1749	-.0489
120.000		.3982	.3329	.9695	.7162	.2918	.0500	-.0058	-.0605	-.0591	.1976	.3420	.0787	.0792	.0381
135.000			.3382	1.0233	.7564	.3364	.0698	.0181	-.0374	-.0416	.1979	.2185	.2044	.2673	.0846
147.000		.4286	.3476	1.0588	.7913	.3678	.0879	.0381	-.0252	-.0273	.2302	.1959	.3238	.3320	.0759
162.000			.3631	1.0803	.8281	.3709	.0995	.0372	-.0103	-.0165	.2466	.0998	.3483	.0936	.1024
180.000	1.6659	.4547	.3748	1.0847	.8598	.3402	.1142	.0622	-.0190	-.0126	.2523	.0508	.4059	.5971	.1655
198.000			.3776	1.0676	.7602	.4377	.0923	.0488	-.0162	-.0174	.2346	.1890	.2932	.0833	.2840
213.000		.4026	.4232	9069	.0000	.1384	-.0224	.0678	-.0306	-.0266	.1166	.1984	.3208	.2357	.2825
225.000			.5007	1.0301	.6578	.3511	.0882	.0004	-.0365	-.0203	.1802	.2273	.1956	.2394	.1084
240.000		.3458	.3621	.9701	.7260	.3068	.0369	-.0040	-.0616	-.0534	.1647	.2609	.1471	.1127	.0728
270.000		.3473	.3440	.8762	.6399	.2299	-.0058	-.0515	-.0998	-.1043	.3121	.5339	-.2352	-.1925	-.0617
300.000		.3382	.3493	.7574	.5365	.1646	-.0493	-.0855	-.1310	-.1275	.0391	.1830	-.1939	-.2802	-.1422
330.000		.3162	.3502	.6587	.4960	.1278	-.0694	-.1040	-.1475	-.1425	.0328	.0000		-.0992	-.1101

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.1138	-.0773	-.0397	-.0011	.0059	-.1520
30.000	-.0271	-.0614	-.0328	-.0180	.0394	-.1609
60.000	-.1772	-.0623	-.0215	-.0195	.1511	-.1647
90.000	-.0561	-.1236	-.0669	-.0255	.5048	-.1704
120.000	.1134	.0702	.0029	.0124	.2708	-.1625
135.000	.1012	.0220	.0045	.2264	.3013	
147.000	.1146	.0139	.0405	.1070	.2946	-.1903
162.000	.0737	.0280	.0361	.0455	.4074	
180.000	.0447	-.0062	.0405	.1186	.4281	-.1903
198.000	-.0371	-.0425	.0502	.0749	.3513	
213.000	.0300	.0261	.0345	.0795	.0858	-.2058
225.000	.1240	.0633	-.0051	.1027	.1546	
240.000	.1302	.0521	.0086	.0320	.2062	-.1640
270.000	-.0676	-.1064	-.0480	-.0253	.4517	-.1656
300.000	-.1584	-.0616	-.0105	-.0249	.1492	-.1669
330.000	-.0352	-.0691	-.0408	-.0249	.0615	-.1710

ARC97-019 IABI LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(2) = -4.905 BETAT (1) = -4.400

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0164	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6690	.2720	.3750	.7238	.5876	.1532	-.0550	-.0932	-.1358	-.1379	.0377	-.0862	.0304	.0121	-.0408
30.000		.3765	.3781	.8094	.5751	.1951	-.0297	-.0738	-.1195	-.1166	.0700	.0086	.0021	-.1394	-.1434
60.000		.4001	.3555	.9189	.6477	.2584	.0099	-.0384	-.0864	-.0877	.1111	.2736	-.2375	-.2180	-.1023
90.000		.4154	.3508	1.0110	.7314	.3181	.0518	-.0002	-.0496	-.0482	.5362	.4020	-.282	-.2026	-.0929
120.000		.4324	.3687	1.0638	.7849	.3499	.0847	.0324	-.0274	-.0301	.2407	.5901	.005_	-.0004	.0571
135.000			.3743	1.0800	.7864	.3630	.0944	.0352	-.0283	-.0259	.2274	.1853	.1790	.2291	.1141
147.000		.4412	.3759	1.0812	.7908	.3593	.0859	.0305	-.0249	-.0253	.2309	.1859	.2877	.3189	.1488
162.000			.3732	1.0610	.7833	.3618	.0812	.0348	-.0343	-.0394	.2252	.1416	.3370	.1835	.0674
180.000	1.6690	.4424	.3814	1.0217	.8566	.3124	.0509	.0157	-.0389	-.0485	.2012	.1677	.3170	.5157	.0639
198.000			.3916	.9682	.7949	.3499	.0164	.0017	-.0727	-.0651	.1693	.1523	.2726	.0130	.2058
213.000		.4258	.4140	.7147	.0000	.0546	-.0769	.0020	-.0827	-.0644	.0507	.1152	.2428	.1774	.1644
225.000			.4245	.8792	.5817	.2547	.0186	-.0586	-.0924	-.0788	.1010	.1394	.1245	.1622	.0231
240.000		.3737	.3540	.8314	.6521	.2069	-.0284	-.0655	-.1185	-.1058	.1104	.1677	.1123	.0462	.0053
270.000		.3235	.3565	.7380	.5392	.1663	-.0528	-.0955	-.1414	-.1192	.2154	.4795	-.3125	-.1693	-.0908
300.000		.2943	.3716	.6244	.5052	.1357	-.0681	-.1051	-.1526	-.1424	.0305	.1947	-.1353	-.2367	-.1045
330.000		.2893	.3833	.6493	.5060	.1329	-.0706	-.1070	-.1494	-.1434	.0244	.0000		-.0306	-.0584

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0993	-.0778	-.0567	-.0132	-.0036	-.1542
30.000	-.0269	-.0297	-.0567	-.0479	-.0305	-.1488
60.000	-.0525	-.0887	-.0263	-.0032	.1801	-.1804
90.000	-.0241	-.0956	.0060	-.0229	.6416	-.1788
120.000	.1585	.1054	.0424	.0730	.3013	-.1807
135.000	.0945	.0879	.0333	.2265	.3504	
147.000	.0699	.0721	.0652	.1169	.4099	-.1586
162.000	.0577	.0214	.0187	.0483	.5740	
180.000	-.0044	.0044	.0593	-.0132	.5117	-.1659
198.000	.0199	.0226	.0212	.0405	.4215	
213.000	-.1140	-.0871	-.0176	.0246	.0238	-.1776
225.000	.0411	.0085	-.0282	.0520	.1422	
240.000	.0896	.0016	-.0485	.0537	.0891	-.1652
270.000	-.1150	-.0539	-.0613	.0614	.5227	-.1703
300.000	-.0550	-.0642	-.0148	-.0102	.1912	-.1706
330.000	-.1184	-.0802	-.0295	-.0125	.0091	-.1614

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(2) = -4.874 BETAT (2) = .042

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	87
PHI															
.000	1.[illegible]38	.2974	.3815	.6816	.6134	.1547	-.0573	-.0973	-.1370	-.1310	.0544	-.0877	.0598	.0445	-.0155
30.000		.3296	.3780	.7361	.5432	.1698	-.0513	-.0910	-.1292	-.1234	.0582	.0117	-.0459	-.0766	-.0899
60.000		.3499	.3736	.7894	.5738	.1974	-.0252	-.0708	-.1201	-.1151	.0678	.2692	-.2410	-.2355	-.1119
90.000		.3600	.3685	.8695	.6283	.2352	.0001	-.0465	-.0968	-.0829	.4351	.3515	-.303[illegible]	-.1883	-.0962
120.000		.3704	.3815	.9463	.6839	.2713	.0358	-.0159	-.0748	-.0673	.1758	.4112	.028[illegible]	.0193	-.0159
135.000			.3869	.9891	.7026	.2959	.0434	-.0040	-.0562	-.0530	.1704	.1769	.1510	.2455	.0607
147.000		.3844	.3923	1.0136	.7485	.3194	.0531	.0090	-.0474	-.0459	.1959	.1829	.2836	.3050	.0573
162.000			.4018	1.0264	.7801	.3336	.0670	.0070	-.0446	-.0361	.2045	.1428	.2987	.0728	.0924
180.000	1.6598	.4002	.4117	1.0270	.8250	.2889	.0683	.0306	-.0477	-.0364	.2070	.1195	.3740	.5449	.1413
198.000			.4149	1.0143	.7367	.3781	.0607	.0140	-.0417	-.0396	.1793	.1397	.2741	.0495	.2888
213.000		.3673	.4653	.8991	.0000	.1144	-.0424	.0394	-.0537	-.0514	.0831	.1520	.2745	.2093	.2314
225.000			.5256	.9898	.6700	.3295	.0635	-.0225	-.0488	-.0335	.1575	.2142	.1518	.2060	.0858
240.000		.3379	.4031	.9572	.7380	.2723	.0232	-.0260	-.0631	-.0577	.1605	.2890	.0709	.0516	.0278
270.000		.3401	.3827	.8917	.5605	.2411	-.0014	-.0496	-.0963	-.0931	.3367	.5371	-.2896	-.2007	-.0915
300.000		.3328	.3852	.7950	.5628	.1849	-.0371	-.0760	-.1183	-.1122	.0707	.2473	-.1525	-.2512	-.1203
330.000		.3065	.3894	.7295	.5430	.1578	-.0576	-.0943	-.1304	-.1285	.0582	.0000		-.0532	-.0817

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0961	-.0889	-.0422	-.0016	.0104	-.1598
30.000	-.0471	-.0383	-.0343	-.0079	.0715	-.1618
60.000	-.0132	-.0575	-.0403	-.0158	.1984	-.1643
90.000	-.0631	-.1386	-.0438	-.0114	.6284	-.1576
120.000	.0781	.0524	-.0214	.0163	.2725	-.1554
135.000	.0728	.0[illegible]2	-.0078	.2123	.2970	
147.000	.0609	-.0078	.0332	.1046	.2646	-.1907
162.000	.0480	-.0189	.0389	.1011	.3952	
180.000	.0150	-.0397	.0288	.1109	.3805	-.1919
198.000	-.0528	-.0592	.0332	.0772	.3091	
213.000	-.0145	-.0050	.0219	.0835	.1033	-.2085
225.000	.0775	.0417	-.0302	.1113	.1580	
240.000	.1101	.0300	-.0085	.0391	.2057	-.1586
270.000	-.0710	-.1301	-.0214	-.0141	.5448	-.1592
300.000	-.0691	-.1181	-.0139	-.0147	.1723	-.1608
330.000	-.0619	-.0403	-.0346	-.0128	.0318	-.1665

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ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RET747)

ALPHAT(2) = -4.812 BETAT (3) = 3.775

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6696	.3199	.3756	.7221	[illegible]	.1553	-.0564	-.0984	-.1392	.1376	.0456	-.0973	.0483	.0099	-.0485
30.000		.3111	.3636	.6175		.1402	-.0633	-.1069	-.1449	-.1449	.0297	.0169	-.0725	-.0216	-.0620
60.000		.3285	.3721	.6641		.1371	-.0680	-.1132	-.1483	-.1465	.0348	.2251	-.2332	-.2424	-.0934
90.000		.3465	.3648	.7288		.1436	-.0592	-.0981	-.1370	-.0763	.3177	.4126	-.319	-.1845	-.0812
120.000		.3588	.3550	.8166		.1380	-.0318	-.0760	-.1150	-.1154	.1029	.2380	.0756	.0297	-.0604
135.000			.3550	.8826	.6[illegible]	.1348	-.0087	-.0494	-.0993	-.1004	.1006	.1501	.1874	.1988	.0068
147.000		.3708	.3588	.9247	.6839	.2662	.0188	-.0340	-.0848	-.0827	.1271	.1413	.2576	.2977	.0009
162.000			.3623	.9594	.7377	.2756	.0289	-.0071	-.0590	-.0587	.1586	.1343	.2385	-.0153	.0565
180.000	1.6696	.3863	.3980	1.0153	.7883	.3149	.0813	.0076	-.0380	-.0497	.1875	.1558	.3617	.5066	.0247
198.000			.4318	1.0514	.6927	.3943	.1069	.0193	-.0122	-.0260	.1977	.1375	.3201	.0804	.2947
213.000		.3794	.4526	1.0520	.0000	.1785	-.0100	.0809	-.0251	-.0375	.1252	.1890	.3015	.2851	.2614
225.000			.5878	1.0770	.7703	.4285	.1192	.0281	-.0087	-.0023	.1793	.1830	.1059	.2394	.1593
240.000		.4002	.4443	1.0643	.8279	.3538	.0974	.0237	-.0250	-.0250	.2359	.4214	.0382	.0232	.0565
270.000		.4069	.4098	1.0187	.7614	.3306	.0639	.0064	-.0569	-.0507	.4500	.5985	-.2623	-.2333	-.1154
300.000		.3734	.3933	.9254	.6614	.2634	.0106	-.0354	-.0907	-.0799	.1156	.2545	-.1527	-.2544	-.1098
330.000		.3525	.3782	.8289	.5812	.1987	-.0273	-.0694	-.1206	-.1187	.0685	.0000		-.1406	-.1437

X/LT	.5528	.6340	.7423	.8506	.9254	.9838
PHI						
.00[illegible]	-.1041	-.0802	-.0478	-.0087	.0069	-.1661
30.000	-.0997	-.0657	-.0265	-.0062	.0457	-.1734
60.000	-.0224	-.0563	-.0143	-.0002	.1851	-.1635
90.000	-.1091	-.0216	-.0529	-.0172	.6335	-.1565
120.000	.0314	.0055	-.0269	.07[illegible]	.0992	-.1485
135.000	.0446	-.0[illegible]	-.0159	.0239	.2178	
147.000	.0050	-.0250	-.0099	.0214	.1553	-.1606
162.000	-.0171	-.0654	-.0309	.[illegible]038	.3293	
180.000	-.0416	-.0791	-.0329	.0729	.4294	-.1721
198.000	-.1352	-.1587	.0521	.0735	.4807	
213.000	.0816	.0442	.0537	.0993	.2094	-.1686
225.000	.1102	.0754	.0033	.1502	.2315	
240.000	.1590	.0726	.0360	.0825	.2053	-.1804
270.000	-.0243	-.0888	.0118	-.0113	.6896	-.1750
300.000	-.0362	-.0990	-.0169	-.0078	.1771	-.1747
330.000	-.0328	-.0310	-.0559	-.0431	-.0217	-.1868

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(3) = -2.585 BETAT (1) = .033

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6585	.3155	.4075	.7959	.6700	.1932	-.0306	-.0738	-.1171	-.1138	.0844	-.0757	.0684	.0618	.0014
30.000		.3338	.3936	.8071	.5987	.2045	-.0246	-.0685	-.1114	-.1058	.0930	.0389	-.0500	-.0229	-.0558
60.000		.3553	.3882	.8335	.6056	.2184	-.0032	-.0533	-.1045	-.0988	.1032	.3601	-.2015	-.2261	-.0834
90.000		.3642	.3844	.8766	.6291	.2463	.0048	-.0461	-.0929	-.0787	.4509	.3743	-.313	-.2144	-.0728
120.000		.3686	.3873	.9238	.6579	.2523	.0246	-.0221	-.0790	-.0765	.1589	.4392	-.026L	-.0535	-.0523
135.000			.3873	.9572	.6652	.2627	.0287	-.0224	-.0718	-.0618	.1487	.1351	.1348	.2004	.0366
147.000		.3718	.3876	.9780	.6935	.2809	.0275	-.0142	-.0636	-.0641	.1646	.1652	.2500	.2653	.0617
162.000			.3926	.9856	.7257	.2966	.0414	-.0145	-.0705	-.0555	.1694	.1538	.2858	.0716	.0686
180.000	1 .75	.3727	.4018	.9834	.8062	.2476	.0360	.0009	-.0711	-.0580	.1735	.1358	.3273	.5082	.1292
198.000			.4066	.9780	.7153	.3284	.0325	-.0116	-.0598	-.0590	.1347	.1165	.2543	.0574	.2414
213.000		.3471	.4391	.9081	.0000	.0930	-.0584	.0173	-.0702	-.0685	.0602	.1494	.2420	.2023	.1745
225.000			.5051	.9631	.6925	.3054	.0420	-.0375	-.0605	-.0481	.1401	.1607	.1128	.1886	.0705
240.000		.3357	.4178	.9501	.7581	.2441	.0186	-.0393	-.0758	-.0685	.1528	.3098	.0102	-.0159	-.0105
270.000		.3449	.4111	.9000	.6449	.2369	-.0006	-.0428	-.0931	-.0832	.3591	.5436	-.3042	-.2041	-.0822
300.000		.3329	.4139	.8449	.6088	.2143	-.0164	-.0579	-.1048	-.0994	.1061	.3272	-.1127	-.2082	-.0882
330.000		.3354	.4076	.8113	.5918	.1970	-.0328	-.0727	-.1157	-.1114	.0879	.0000		-.0209	-.0501

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0693	-.0806	-.0310	-.0051	.0143	-.1473
30.000	-.0567	-.0288	-.0320	-.0080	.0819	-.1616
60.000	-.0074	-.0391	-.0244	-.0313	.1788	-.1601
90.000	-.0753	-.1457	-.0452	.0021	.6890	-.1540
120.000	.0595	.0394	-.0355	.0232	.2884	-.1629
135.000	.0410	-.0029	-.0203	.2170	.3024	
147.000	.0328	-.0212	.0322	.1263	.2597	-.1827
162.000	.0190	-.0446	.0462	.1461	.3793	
180.000	-.0084	-.0664	.0264	.1268	.3196	-.1871
198.000	-.0451	-.0670	.0220	.0938	.2737	
213.000	-.0891	-.0269	.0166	.1048	.1303	-.1996
225.000	.0322	.0258	-.0370	.1252	.1746	
240.000	.0903	.0170	-.0225	.0481	.2294	-.1559
270.000	-.0693	-.1378	-.0288	-.0032	.6031	-.1572
300.000	.0001	-.0092	-.0193	-.0335	.1638	-.1575
330.000	-.0787	-.0279	-.0407	-.0029	.0764	-.1618

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(4) = -.363 BETAT (1) = -6.508

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6731	.2744	.4214	.8933	.7205	.2184	-.0120	-.0568	-.1045	-.1065	.0971	-.0703	.0334	.0284	-.0217
30.000		.4047	.3756	.9840	.7084	.2978	.0365	-.0151	-.0664	-.0645	.1608	.0694	.0315	-.0899	-.0921
60.000		.4284	.3712	1.0634	.7756	.3494	.0799	.0237	-.0362	-.0362	.2105	.4443	-.1550	-.1756	-.0531
90.000		.4375	.3759	1.0966	.8050	.3731	.0956	.0353	-.0236	-.0215	.5969	.4667	-.300	-.1709	.0154
120.000		.4284	.3686	1.0621	.7829	.3525	.0811	.0256	-.0349	-.0340	.2213	.3525	-.0941	-.1019	.0066
135.000			.3591	1.0347	.7458	.3352	.0638	.0145	-.0425	-.0436	.1945	.1242	-.0024	.0211	.0852
147.000		.4167	.3544	1.0038	.7192	.3053	.0527	.0022	-.0560	-.0622	.1754	.1106	.1483	.2970	.1159
162.000			.3614	.9534	.6752	.2543	.0190	-.0308	-.0727	-.0754	.1360	.1078	.2639	.1432	.0598
180.000	1.6731	.4047	.3792	.8884	.6495	.2537	-.0016	-.0570	-.0979	-.0962	.1089	.1173	.3760	.4109	.0223
198.000			.3985	.8214	.7154	.2367	-.0391	-.0561	-.1184	-.1177	.0822	.0916	.2311	-.0416	.1632
213.000		.3810	.4092	.6116	.0000	-.0026	-.1104	-.0567	-.1275	-.1122	.0016	.0888	.1964	.1135	.0830
225.000			.4076	.7335	.5020	.1752	-.0366	-.1054	-.1315	-.1196	.0498	.1113	.0927	.0928	-.0396
240.000		.3528	.3517	.6866	.5732	.1278	-.0656	-.1036	-.1481	-.1417	.0612	.1822	-.0041	-.0321	-.0720
270.000		.3114	.3709	.5754	.4950	.1246	-.0726	-.1064	-.1523	-.1420	.3037	.4316	-.2844	-.1157	-.0060
300.000		.3221	.3639	.6688	.5099	.1435	-.0726	-.1051	-.1488	-.1420	.0497	.1755	-.0313	-.1588	-.0295
330.000		.2896	.3789	.7794	.5433	.1630	-.0445	-.0844	-.1327	-.1308	.0475	.0000		-.0149	-.0322

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0662	-.0482	-.0404	-.0369	-.0065	-.1543
30.000	-.0136	.0025	-.0350	-.0274	.0346	-.1556
60.000	.0147	.0009	-.0199	-.0309	.2015	-.1517
90.000	-.0535	-.1204	-.0699	-.0574	.7396	-.1572
120.000	.1422	.0979	.0810	.1265	.4092	-.1661
135.000	.0522	.0364	.0449	.3399	.4026	
147.000	.0320	.0342	.0071	.1690	.4419	-.1476
162.000	-.0319	-.0094	.0492	.0533	.6204	
180.000	-.0416	-.0591	-.0432	.1164	.4875	-.1524
198.000	-.0460	-.0872	-.0016	.0754	.4296	
213.000	-.1814	-.1381	-.0372	.0470	-.0412	-.1591
225.000	-.0196	-.0461	-.0444	.0554	.1543	
240.000	.0091	-.0973	-.0478	.0705	.0997	-.1463
270.000	-.1134	-.0407	-.0608	.0378	.4989	-.1476
300.000	.0059	-.0294	-.0347	.0195	.1873	-.1479
330.000	-.0860	-.0575	-.0277	-.0219	.0298	-.1502

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(4) = -.381 BETAT (2) = -4.439

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4907
PHI															
.000	1.6685	.2610	.4269	.8803	.7268	.2269	-.0078	-.0505	-.0968	-.0982	.1096	-.0695	.0461	.0507	-.0006
30.000		.3686	.4000	.9640	.6814	.2738	.0261	-.0240	-.0777	-.0805	.1421	.0675	.0113	-.0674	-.0802
60.000		.4019	.4028	1.0157	.7255	.3069	.0484	-.0050	-.0585	-.0567	.1845	.4788	-.1591	-.1722	-.0651
90.000		.4136	.3984	1.0378	.7468	.3245	.0554	.0038	-.0513	-.0465	.5368	.4243	-.300	-.1675	.0073
120.000		.4104	.3984	1.0148	.7309	.3094	.0494	-.0012	-.0551	-.0555	.1893	.3727	-.093.	-.1026	.0261
135.000			.3974	.9994	.7068	.2981	.0424	-.0037	-.0604	-.0677	.1660	.1068	.0382	.0795	.0651
147.000		.3984	.3930	.9816	.6925	.2773	.0361	-.0186	-.0749	-.0712	.1593	.1236	.1979	.2792	.0897
162.000			.3936	.9451	.6640	.2600	.0093	-.0286	-.0800	-.0886	.1421	.1267	.2977	.1807	.0362
180.000	1.6685	.3784	.3945	.8883	.6922	.2379	-.0091	-.0463	-.0866	-.0979	.1195	.1267	.2688	.4325	.0422
198.000			.3939	.8346	.7001	.2600	-.0281	-.0535	-.1058	-.1072	.1007	.1311	.2348	.0280	.2164
213.000		.3572	.4188	.6743	.0000	.0361	-.0986	-.0406	-.1108	-.1098	.0070	.0837	.1942	.1498	.1419
225.000			.4504	.7788	.5739	.2172	-.0205	-.0875	-.1168	-.1075	.0713	.1217	.1130	.1211	-.0022
240.000		.3237	.4076	.7487	.6326	.1592	-.0429	-.0881	-.1348	-.1242	.0771	.2048	-.0274	-.0556	-.0758
270.000		.3199	.3846	.6795	.5536	.1592	-.0550	-.0907	-.1403	-.1342	.2931	.4903	-.2846	-.1592	-.0113
300.000		.3180	.4092	.7426	.5569	.1797	-.0512	-.0866	-.1352	-.1339	.0742	.2184	-.0419	-.1507	-.0649
330.000		.2699	.4230	.8080	.5751	.1907	-.0306	-.0718	-.1236	-.1170	.0749	.0000		-.0034	-.0255

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0570	-.0526	-.0325	-.0224	- 0036	-.1512
30.000	-.0148	.0065	-.0306	-.0187	.0444	-.1454
60.000	.0122	-.0035	-.0110	-.0227	.1748	-.1416
90.000	-.0790	-.1353	-.0552	-.0338	.8968	-.1588
120.000	.0986	.0631	.0395	.0811	.3520	-.1652
135.000	.0455	.0209	.0089	.2815	.3829	
147.000	.0307	.0195	.0395	.1402	.4038	-.1632
162.000	.0175	-.0205	.0097	.1012	.5592	
180.000	-.0412	-.0451	.0288	.0487	.5044	-.1671
198.000	-.0205	-.0249	-.0028	.0767	.4322	
213.000	-.1748	-.1297	-.0271	.0716	.0572	-.1823
225.000	-.0117	-.0322	-.0284	.0803	.1768	
240.000	.0273	-.0418	-.0485	.0857	.1172	-.1483
270.000	-.1204	-.0994	-.0658	.0492	.5063	-.1518
300.000	.0158	-.0148	-.0319	.0294	.2123	-.1521
330.000	-.0793	-.0432	-.0271	-.0155	.0346	-.1515

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(4) = -.357 BETAT (3) = -2.167

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6612	.2768	.4247	.8746	.7579	.2297	-.0037	-.0484	-.0977	-.1003	.1132	-.0619	.0603	.0708	.0150
30.000		.3547	.3996	.9154	.6579	.2505	.0108	-.0377	-.0886	-.0852	.1358	.0680	-.0182	-.0264	-.0524
60.000		.3702	.3965	.9557	.6773	.2691	.0290	-.0203	-.0753	-.0740	.1359	.4907	-.1620	-.1791	-.0794
90.000		.3731	.3952	.9733	.6859	.2807	.0299	-.0187	-.0719	-.0637	.5017	.3987	-.300	-.1712	-.0127
120.000		.3753	.3974	.9608	.6805	.2684	.0220	-.0216	-.0709	-.0721	.1639	.3965	-.0881	-.1126	-.0401
135.000			.3943	.9515	.6671	.2587	.0249	-.0241	-.0794	-.0762	.1492	.0970	.1002	.1045	.0289
147.000		.3705	.3943	.9436	.6659	.2492	.0148	-.0348	-.0820	-.0743	.1495	.1385	.2230	.2490	.0566
162.000			.3981	.9164	.6516	.2549	.0100	-.0318	-.0892	-.0830	.1413	.1467	.2844	.1405	.0185
180.000	1.6612	.3696	.4013	.8854	.7268	.2193	-.0095	-.0343	-.0914	-.0920	.1272	.1312	.2654	.4425	.0695
198.000			.4044	.8605	.7033	.2757	-.0137	-.0485	-.0952	-.0955	.1002	.0736	.2516	.0316	.2184
213.000		.3487	.4258	.7714	.0000	.0599	-.0873	-.0255	-.1021	-.1051	.0159	.0986	.2209	.1711	.1542
225.000			.4769	.8362	.6402	.2565	.0025	-.0712	-.0990	-.0897	.0893	.1103	.0894	.1466	.0270
240.000		.3154	.4415	.8280	.6827	.1878	-.0152	-.0712	-.1167	-.1042	.1075	.2550	-.0412	-.0804	-.0735
270.000		.3550	.4016	.8045	.5983	.1865	-.0313	-.0690	-.1199	-.1045	.3279	.5259	-.2927	-.1991	-.0099
300.000		.3449	.4070	.8188	.5980	.2057	-.0279	-.0652	-.1141	-.1122	.1030	.2805	-.0548	-.1673	-.0826
330.000		.2828	.4357	.8454	.6098	.2136	-.0187	-.0643	-.1141	-.1084	.0957	.0000		-.0014	-.0173

X/LT	.5528	.6340	.7423	.8506	.9264	.9839
PHI						
.000	-.0504	-.0852	-.0260	-.0138	-.0028	-.1431
30.000	-.0444	-.0025	-.0323	-.0101	.0931	-.1483
60.000	.0022	-.0078	-.0121	-.0078	.1439	-.1398
90.000	-.1098	-.1488	-.0639	-.0325	.7238	-.1457
120.000	.0451	.0347	.0024	.0457	.2762	-.1489
135.000	.0265	.0071	-.0165	.1952	.3089	
147.000	.0013	-.0200	.0227	.1285	.4150	-.1769
162.000	.0259	-.0740	-.0255	.0511	.4502	
180.000	-.0403	-.1069	.0486	.1255	.4315	-.1794
198.000	-.0315	-.0143	-.0003	.0744	.3420	
213.000	-.1398	-.1012	-.0126	.0732	.1020	-.1932
225.000	-.0015	-.0130	-.0372	.0985	.1833	
240.000	.0397	-.0190	-.0467	.0808	.1949	-.1438
270.000	-.1165	-.1598	-.0640	.0413	.5454	-.1473
300.000	.0161	-.0051	-.0277	-.0050	.2051	-.1466
330.000	-.0734	-.0393	-.0293	-.0166	.0430	-.1501

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(4) = -.356 BETAT (4) = .015

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6612	.3142	.4272	.8777	.7528	.2296	-.0042	-.0491	-.0977	-.0983	.1165	-.0592	.0694	.0789	.0210
30.000		.3455	.4012	.8745	.6370	.2388	-.0008	-.0476	-.0929	-.0941	.1229	.0572	-.0293	.0038	-.0255
60.000		.3712	.3962	.8787	.6335	.2403	.0093	-.0393	-.0926	-.0934	.1273	.4359	-.1572	-.1809	-.0821
90.000		.3772	.3930	.8809	.6357	.2425	.0049	-.0444	-.0964	-.0893	.4495	.4148	-.297	-.1576	-.0330
120.000		.3845	.3952	.8755	.6398	.2321	.0059	-.0365	-.0898	-.0925	.1353	.3939	-.080.	-.1191	-.0720
135.000			.3949	.8876	.6335	.2312	.0097	-.0400	-.0920	-.0883	.1245	.0893	.1149	.1325	.0144
147.000		.3791	.3949	.8956	.6411	.2306	-.0004	-.0428	-.0866	-.0899	.1318	.1333	.2228	.2198	.0484
162.000			.3971	.8950	.6417	.2492	.0068	-.0416	-.0961	-.0838	.1308	.1418	.2740	.0609	.0437
180.000	1.6612	.3670	.4009	.8930	.7572	.2041	-.0001	-.0337	-.0983	-.0867	.1343	.1209	.2406	.3901	.0983
198.000			.4099	.8946	.6922	.2819	.0005	-.0416	-.0854	-.0886	.1031	.1203	.2135	.0536	.2479
213.000		.3385	.4287	.8684	.0000	.0720	-.0757	-.0119	-.0901	-.0941	.0374	.1513	.2091	.1905	.1386
225.000			.4881	.8955	.7042	.2810	.0157	-.0561	-.0829	-.0707	.0817	.1152	.0536	.1398	.0594
240.000		.3493	.4265	.9015	.7512	.2183	.0071	-.0526	-.0973	-.0838	.1404	.3114	-.0447	-.0861	-.0547
270.000		.3689	.4230	.9050	.6405	.2262	-.0102	-.0466	-.0976	-.0928	.3715	.5473	-.3001	-.2008	-.0076
300.000		.3715	.4230	.8920	.6376	.2343	-.0049	-.0450	-.0963	-.0941	.1302	.3440	-.0621	-.1663	-.1025
330.000		.3591	.4226	.8917	.6392	.2262	-.0036	-.0479	-.1056	-.0993	.1165	.0000		.0022	-.0211

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
000	-.0450	-.0698	-.0221	-.0094	.0066	-.1431
30.000	-.0648	-.0195	-.0265	-.0018	.0332	-.1507
60.000	.0038	-.0057	-.0133	-.0015	.1864	-.1434
90.000	-.1219	-.1561	-.0746	-.0094	.7327	-.1421
120.000	.0166	.0095	-.0281	.0297	.2799	-.1494
135.000	.0289	-.0164	-.0357	.2298	.3042	
147.000	.0038	-.0411	.0231	.1595	.2693	-.1784
162.000	-.0258	-.0736	.0319	.1600	.3395	
180.000	-.0324	-.0996	.0108	.1543	.2715	-.1841
198.000	-.0230	-.0638	.0070	.1244	.2199	
213.000	-.1301	-.0477	.0083	.1338	.1432	-.1905
225.000	.0135	.0035	-.0421	.1352	.1830	
240.000	.0597	.0035	-.0323	.0614	.2314	-.1472
270.000	-.0915	-.1491	-.0493	-.0075	.5961	-.1469
300.000	.0192	.0016	-.0204	-.0075	.1750	-.1478
330.000	-.0673	-.0174	-.0270	-.0088	.0681	-.1523

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(4) = -.339 BETAT (5) = 2.206

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6591	.2879	.4424	.9043	.7375	.2451	-.0022	-.0493	-.0978	-.0983	.1171	-.0666	.0689	.0676	.0134
30.000		.3214	.4342	.8503	.6194	.2228	-.0110	-.0553	-.1031	-.1054	.1002	.0485	-.0349	.0030	-.0186
60.000		.3724	.4092	.8283	.6111	.2054	-.0185	-.0663	-.1135	-.1105	.1075	.3683	-.1500	-.1788	-.0664
90.000		.3895	.4108	.8155	.6134	.2051	-.0316	-.0736	-.1167	-.1025	.3989	.4575	-.295	-.1369	-.0406
120.000		.3861	.4092	.8235	.6111	.1950	-.0199	-.0629	-.1126	-.1140	.1047	.3493	-.062.	-.1044	-.0925
135.000			.4051	.8427	.6083	.2020	-.0173	-.0657	-.1098	-.1060	.0951	.0913	.0992	.1600	-.0139
147.000		.3775	.4041	.8625	.6226	.2284	-.0145	-.0546	-.1022	-.1070	.1069	.1441	.2093	.2274	.0078
162.000			.4044	.8778	.6448	.2476	-.0037	-.0552	-.0965	-.0983	.1181	.1296	.2255	.0891	.0615
180.000	1.6591	.3683	.4098	.9087	.7686	.2095	.0111	-.0370	-.0965	-.0925	.1257	.1201	.3333	.4341	.0276
198.000			.4201	.9471	.6730	.2955	.0206	-.0341	-.0738	-.0842	.1209	.1226	.2668	.0828	.1335
213.000		.3636	.4338	.9349	.0000	.1012	-.0648	.0075	-.0792	-.0845	.0489	.1409	.2262	.2255	.1668
225.000			.4979	.9676	.7543	.3192	.0342	-.0325	-.0627	-.0556	.1133	.0929	.0352	.1313	.0766
240.000		.3899	.4264	.9822	.8025	.2527	.0354	-.0256	-.0794	-.0672	.1655	.3446	-.0707	-.0859	-.0350
270.000		.3892	.4296	.9977	.6914	.2732	.0190	-.0231	-.0820	-.0672	.4173	.5744	-.2998	-.1997	.0075
300.000		.3791	.4347	.9847	.6778	.2779	.0247	-.0234	-.0836	-.0678	.1585	.4113	-.0679	-.1670	-.0944
330.000		.3503	.4354	.9595	.6654	.2546	.0111	-.0335	-.0897	-.0857	.1295	.0000		-.0255	-.0518

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0544	-.0669	-.0241	-.0054	.0013	-.1416
30.000	-.0729	-.0327	-.0196	.0027	.0381	-.1428
60.000	.0004	-.0037	-.0146	.0090	.2180	-.1400
90.000	-.1386	-.0895	-.0620	.0172	.6486	-.1413
120.000	.0073	-.0124	-.0323	.1040	.1638	-.1317
135.000	.0214	-.0643	-.0111	.1607	.2568	
147.000	-.0390	-.0535	.0243	.1437	.2010	-.1747
162.000	-.0402	-.0955	.0068	.1478	.2302	
180.000	-.0468	-.0947	-.0071	.1412	.3254	-.1880
198.000	-.0905	-.1252	.0062	.1126	.2949	
213.000	-.0333	-.0159	.0285	.1213	.1920	-.1931
225.000	.0359	-.0010	-.0256	.1475	.2356	
240.000	.0802	.0072	-.0045	.0750	.1561	-.1680
270.000	-.0534	-.1387	-.0344	-.0202	.6986	-.1562
300.000	.0151	-.0051	-.0127	-.0173	.1685	-.1546
330.000	-.0515	.0031	-.0268	-.0080	.0701	-.1597

ARC97-019 IAB1 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(4) = -.319 BETAT (81 = 3.741

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6715	.2577	.4457	.9026	.7046	.2343	-.0036	-.0484	-.0984	-.0904	.1087	-.0720	.0657	.0450	-.0023
30.000		.2780	.4308	.8195	.5814	.1962	-.0285	-.0725	-.1176	-.1184	.0771	.0471	-.0413	-.0055	-.0231
60.000		.3379	.4016	.7558	.5525	.1716	-.0449	-.0908	-.1318	-.1316	.0749	.3163	-.1432	-.1342	-.1074
90.000		.3636	.3991	.7277	.5544	.1660	-.0604	-.1010	-.1371	-.1132	.3762	.5348	-.196'	-.1762	-.1197
120.000		.3556	.3984	.7603	.5538	.1543	-.0465	-.0905	-.1337	-.1322	.0771	.2886	-.049L	-.0620	-.0546
135.000			.3953	.7856	.5608	.1663	-.0459	-.0842	-.1236	-.1264	.0679	.0730	.0720	.1481	-.0234
147.000		.3594	.3921	.8160	.5836	.1987	-.0310	-.0715	-.1211	-.1161	.0813	.1246	.1996	.2333	-.0096
162.000			.3955	.8502	.6522	.2113	-.0253	-.0653	-.1037	-.1103	.0953	.1028	.2081	-.0424	.0361
180.000	1.6715	.3468	.4016	.8984	.7312	.2151	.0123	-.0505	-.0902	-.0975	.1148	.1075	.3406	.4253	-.0080
198.000			.4102	.9442	.8093	.2983	.0421	-.0423	-.0612	-.0760	.1279	.1075	.2552	.0771	.2138
213.000		.3588	.4208	.9333	.0000	.1039	-.0693	.0182	-.0757	-.0850	.0803	.1417	.2232	.2241	.1726
225.000			.5205	.9901	.7926	.3579	.0427	-.0079	-.0480	-.0438	.1595	.1062	.0062	.1223	.0908
240.000		.3972	.4451	1.0177	.8297	.2974	.0652	.0034	-.0654	-.0525	.1940	.3614	-.0762	-.0904	-.0284
270.000		.4026	.4486	1.0441	.7500	.3248	.0544	.0103	-.0541	-.0525	.4604	.6111	-.3049	-.2012	.0178
300.000		.3937	.4467	1.0199	.7246	.3194	.0541	.0044	-.0583	-.0525	.1851	.4370	-.0733	-.1569	-.0914
330.000		.3617	.4349	.9774	.6815	.2823	.0269	-.0190	-.0782	-.0768	.1432	.0000		-.0577	-.0813

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0615	-.0571	-.0285	-.0122	-.0069	-.1456
30.000	-.0634	-.0424	-.0210	-.0002	.0265	-.1555
60.000	.0054	-.0109	-.0213	.0070	.2163	-.1533
90.000	-.1273	-.0936	-.0468	.0444	.6462	-.1498
120.000	.0004	-.0150	-.0484	.1153	.1483	-.1405
135.000	-.0634	-.1021	-.0254	.1165	.2410	
147.000	-.0549	-.0306	-.0033	.1228	.1714	-.1628
162.000	-.0578	-.1116	-.0497	.1470	.2718	
180.000	-.0747	-.1084	-.0981	.1042	.3820	-.1797
198.000	-.1427	-.1731	.0230	.0762	.4665	
213.000	.0143	.0109	0407	.0992	.2138	-.1838
225.000	.0690	.0345	.0070	.1323	.2455	
240.000	.0947	.0365	.0306	.0823	.2747	-.1730
270.000	-.0747	-.1267	-.0342	-.0217	.7216	-.1593
300.000	.0105	-.0077	-.0116	-.0329	.1949	-.1587
330.000	-.0225	.0040	-.0204	-.0159	.0604	-.1657

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ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(4) = -.284 BETAT (7) = 6.428

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2108	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6660	.2282	.4240	.8755	.6965	.2298	-.0076	-.0530	-.0991	-.0936	.1023	-.0726	.0594	.0263	-.0209
30.000		.2595	.3901	.7667	.5410	.1719	-.0419	-.0833	-.1277	-.1219	.0520	.0453	-.0439	-.0099	-.0275
60.000		.3089	.3762	.6763	.5026	.1376	-.0661	-.1064	-.1438	-.1347	.0625	.2667	-.1349	-.1185	-.0808
90.000		.3168	.3690	.6042	.4924	.1354	-.0780	-.1143	-.1460	-.1222	.3879	.5290	-.185	-.1620	-.0965
120.000		.3285	.3709	.6728	.4975	.1190	-.0707	-.1083	-.1453	-.1366	.0587	.2590	-.0251	-.0241	-.0682
135.000			.3661	.7268	.5080	.1473	-.0644	-.0998	-.1384	-.1302	.0488	.0552	.0682	.1181	-.0386
147.000		.3326	.3611	.7711	.5499	.1734	-.0464	-.0915	-.1324	-.1216	.0532	.1085	.1871	.1973	-.0212
162.000			.3598	.8177	.6314	.1797	-.0381	-.0692	-.1167	-.1101	.0628	.0983	.1816	-.0705	-.0219
180.000	1.6660	.3310	.3690	.8739	.6847	.2213	-.0002	-.0541	-.0921	-.0865	.1115	.1101	.3191	.3557	-.0389
198.000			.3767	.9432	.5607	.2849	.0586	-.0459	-.0528	-.0499	.1405	.1272	.2664	.0819	.3154
213.000		.3686	.3911	.9231	.0000	.0859	-.0897	.0262	-.0780	-.0840	.1007	.1288	.2295	.2090	.2022
225.000			.5053	1.0116	.8171	.3890	.0475	.0183	-.0225	-.0170	.1995	.1202	-.0153	.0642	.1269
240.000		.4319	.4507	1.0488	.8526	.3393	.0854	.0350	-.0355	-.0209	.2323	.3601	-.0752	-.0956	-.0143
270.000		.4512	.4501	1.0897	.8149	.3702	.0893	.0457	-.0135	-.0142	.5352	.6389	-.3005	-.2065	.0248
300.000		.4256	.4497	1.0595	.7644	.3533	.0817	.0328	-.0269	-.0257	.2237	.4298	-.0737	-.1678	-.0811
330.000		.3819	.4233	.9840	.6960	.2968	.0415	-.0072	-.0614	-.0637	.1613	.0000		-.0839	-.1020

X/LT	.5528	.6340	.7423	.8516	.9264	.9838
PHI						
.000	-.0684	-.0442	-.0408	-.0289	-.0131	-.1481
30.000	-.0848	-.0536	-.0259	-.0147	.0322	-.1551
60.000	.0068	-.0158	-.0335	-.0087	.1945	-.1506
90.000	-.0936	-.0660	-.0581	.0411	.6739	-.1458
120.000	-.0045	-.0408	-.0540	.0944	.1604	-.1391
135.000	-.0331	-.0967	-.0613	.1057	.2293	
147.000	-.0802	-.0853	-.0556	.1548	.1725	-.1506
162.000	-.1162	-.1491	-.0957	.1454	.2628	
180.000	-.1319	-.1087	-.0980	.0055	.3633	-.1774
198.000	-.1801	-.2145	.0152	-.0144	.6522	
213.000	.0543	.0057	.0619	.1139	.2653	-.1777
225.000	.0962	.0540	.0247	.1948	.2926	
240.000	.1169	.0730	.0754	.1180	.3938	-.1956
270.000	-.0413	-.1137	-.0387	-.0112	.7095	-.1535
300.000	.0131	-.0047	-.0223	-.0204	.2280	-.1589
330.000	-.0180	.0009	-.0220	-.0182	.0424	-.1867

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(51 = 1.049 BETAT (1, = .007

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.0563	.2393	.4688	.9706	.7904	.2757	.0270	-.0201	-.0717	-.0870	.1599	-.0440	.0642	.0978	.0458
30.000		.2681	.4686	.9671	.6719	.2830	.0280	-.0223	-.0727	-.0854	.1599	.0733	.0037	.0184	.0008
60.000		.3538	.3993	.9273	.6529	.2625	.0242	-.0273	-.0799	-.0759	.1548	.4504	-.1093	-.1324	-.1248
90.000		.3762	.3952	.8810	.6354	.2417	.0090	-.0384	-.0906	-.0852	.4387	.4028	-.290'	-.1536	-.0002
120.000		.3724	.3987	.8351	.6120	.2150	-.0109	-.0510	-.0969	-.0948	.1106	.2891	-.123.	-.1595	.0489
135.000			.3977	.8310	.5980	.2058	-.0077	-.0545	-.1057	-.1002	.1035	.0502	.0715	.0518	-.0200
147.000		.3674	.3980	.8240	.6044	.1939	-.0220	-.0649	-.1051	-.0986	.1042	.1187	.1865	.1768	.0244
162.000			.4018	.8160	.5971	.2071	-.0245	-.0623	-.1130	-.0992	.0981	.1048	.2355	.0768	.0360
180.000	1.0563	.3639	.4072	.8118	.6668	.1740	-.0305	-.0592	-.1142	-.1008	.1007	.1067	.2257	.3178	.0706
198.000			.4127	.8185	.6329	.2402	-.0261	-.0636	-.1020	-.1053	.0838	.1013	.2023	.0272	.2280
213.000		.3833	.4235	.8090	.0000	.0598	-.0917	-.0340	-.1087	-.1053	.0150	.1276	.1812	.1632	.1197
225.000			.4659	.8328	.6696	.2537	-.0096	-.0699	-.0903	-.0794	.0675	.0864	.0279	.0942	.0338
240.000		.3639	.4280	.8588	.6725	.2058	-.0134	-.0551	-.1059	-.0922	.1201	.2739	-.1037	-.1374	.0404
270.000		.3636	.4267	.9082	.6304	.2235	-.0077	-.0491	-.0913	-.0877	.3534	.5599	-.2930	-.1613	.0074
300.000		.3500	.4340	.9516	.6544	.2653	.0071	-.0355	-.0801	-.0737	.1517	.3442	-.0059	-.1235	-.1289
330.000		.2880	.4729	.9726	.6722	.2631	.0260	-.0223	-.0740	-.0781	.1475	.0000		.0137	.0052

X/LT	.9520	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0196	-.0507	-.0047	-.0008	.0051	-.1383
30.000	-.0444	-.0082	-.0104	.0020	.0477	-.1486
60.000	.0358	.0311	-.0041	-.0008	.1619	-.1376
90.000	.0201	-.0097	-.02_*	.0178	.5541	-.1376
120.000	-.0142	-.0028	-.0274	.0513	.3310	-.1258
13_.000	.0135	-.0467	-.0477	.2550	.3136	
147.000	.0056	-.0644	-.0015	.2178	.2855	-.1785
162.000	-.0495	-.0768	.0118	.1916	.3126	
180.000	-.0489	-.1131	-.0150	.1866	.2571	-.1740
198.000	-.0359	-.0875	.0008	.1655	.2181	
213.000	-.1367	-.0606	.0008	.1730	.1691	-.1794
225.000	.0012	-.0211	-.0371	.1649	.2061	
240.000	.0173	-.0161	-.0304	.0961	.2813	-.1351
270.000	.0346	-.0252	-.0352	.0364	.5031	-.1364
300.000	.0431	.0285	-.0128	-.0010	.1545	-.1383
330.000	-.0410	-.0113	-.0166	-.0032	.0559	-.1475

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(8) = 3.467 BETAT (1) = -4.411

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.6683	.2514	.4624	1.0102	.8346	.3214	.0515	.0041	-.0495	-.0536	.1888	-.0280	.0451	.0886	.0473
30.000		.4070	.4237	1.0671	.7797	.3598	.0813	.0262	-.0315	-.0334	.2204	.1079	.0438	.0236	-.0075
60.000		.4478	.3895	1.0712	.7791	.3566	.0823	.0250	-.0350	-.0337	.2287	.5922	-.0611	-.0834	-.0775
90.000		.4310	.3687	1.0195	.7353	.3192	.0525	.0000	-.0548	-.0501	.4994	.4596	-.303	-.1592	.0237
120.000		.4079	.3661	.9273	.6614	.2535	.0126	-.0355	-.0879	-.0864	.1193	.2194	-.1601	-.1494	-.0239
135.000			.3734	.8823	.6164	.2398	-.0133	-.0564	-.1002	-.0989	.1037	.0463	-.0599	-.0812	.0854
147.000		.3905	.3785	.8372	.5910	.2108	-.0225	-.0621	-.1116	-.1146	.0887	.0748	.0856	.2262	.0426
162.000			.3930	.7814	.5580	.1651	-.0459	-.0826	-.1226	-.1255	.0642	.0970	.1934	.1505	.0183
180.000	1.6683	.3686	.3773	.7348	.5644	.1607	-.0575	-.0914	-.1311	-.1342	.0508	.0844	.2026	.3598	.0265
198.000			.3741	.6888	.6157	.1850	-.0678	-.0954	-.1333	-.1365	.0352	.0669	.1921	-.0216	.2092
213.000		.3366	.3926	.5490	.0000	.0016	-.1291	-.0775	-.1396	-.1474	-.0308	.0582	.1723	.1240	.1179
225.000			.4092	.6161	.4949	.1793	-.0507	-.1094	-.1333	-.1275	.0055	.0761	.0330	.0892	-.0428
240.000		.3142	.3757	.6167	.5441	.1377	-.0595	-.1050	-.1474	-.1426	.0441	.1953	-.1182	-.1515	.0155
270.000		.3176	.3827	.7290	.5345	.1535	-.0554	-.0952	-.1429	-.1349	.2325	.4941	-.3095	-.1600	.0341
300.000		.2913	.3910	.8137	.5790	.2105	-.0291	-.0668	-.1204	-.1175	.0980	.1439	.0820	-.0793	-.0913
330.000		.2242	.4006	.9187	.6572	.2580	.0161	-.0302	-.0867	-.0825	.1270	.0000		.0423	.0252

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	-.0032	-.0221	-.0068	-.0010	-.0140	-.1293
30.000	-.0101	-.0416	.0122	.0055	.0654	-.1261
60.000	.0539	.0529	.0318	.0151	.1312	-.1181
90.000	.1040	.0457	.0335	.0416	.3507	-.1175
120.000	.0580	.0476	.0223	.1016	.4464	-.1172
135.000	-.0199	-.0043	-.0096	.3200	.4626	
147.000	.0362	.0147	.0172	.2168	.4610	-.1724
162.000	-.0054	-.0166	-.0016	.2310	.5954	
180.000	-.0704	-.0512	.0246	.2657	.5251	-.1622
198.000	-.0414	-.0194	.0091	.1455	.4416	
213.000	-.1955	-.1194	.0059	.1347	.1046	-.1755
225.000	-.0426	-.0416	.0025	.1592	.2219	
243.000	-.0057	-.0403	-.0212	.1508	.1900	-.1414
270.000	.0629	.0165	-.0540	.1277	.3526	-.1430
300.000	.0535	.0290	-.0298	.0268	.1592	-.1395
330.000	-.0385	-.0236	-.0057	-.0217	.0541	-.1360

ARC97-019 1A81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(6) = 3.478 BETAT (21) = .008

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6581	.2098	.5181	1.0138	.8333	.3267	.0569	.0072	-.0485	-.0456	.1995	-.0224	.0677	.1175	.0736
30.000		.2099	.5618	.9918	.7241	.3191	.0550	.0031	-.0548	-.0488	.1923	.0796	.0468	.0348	.0232
60.000		.3110	.4073	.9451	.6784	.2807	.0396	-.0130	-.0700	-.0710	.1686	.3860	-.0561	-.0870	-.0935
90.000		.3582	.3807	.8752	.6283	.2337	.0044	-.0418	-.0921	-.0909	.4198	.3921	-.305	-.1693	.0118
120.000		.3591	.3854	.7922	.5784	.1927	-.0263	-.0693	-.1161	-.1130	.0800	.2122	-.1545	-.1763	.0153
135.000			.3857	.7698	.5527	.1817	-.0333	-.0747	-.1212	-.1211	.0739	.0481	.0272	-.0081	-.0377
147.000		.3442	.3835	.7487	.5480	.1644	-.0409	-.0836	-.1269	-.1214	.0749	.1029	.1564	.1522	.0096
162.000			.3965	.7321	.5556	.1697	-.0500	-.0851	-.1316	-.1262	.0701	.0858	.1822	.0610	.0307
180.000	1.6581	.3465	.3862	.7104	.6038	.1423	-.0513	-.0851	-.1351	-.1291	.0675	.0334	.2206	.2642	.0418
198.000			.3875	.7216	.5118	.2022	-.0462	-.0989	-.1240	-.1316	.0528	.0829	.2118	.0070	.1949
213.000		.3379	.3933	.7168	.0000	.0320	-.1159	-.0592	-.1306	-.1297	-.0062	.1045	.1686	.1437	.1010
225.000			.4364	.7616	.6613	.2183	-.0393	-.0855	-.1108	-.1027	.0637	.0522	-.0135	.0310	.0124
240.000		.3569	.4143	.8076	.6092	.1946	-.0367	-.0678	-.1227	-.1108	.0905	.2194	-.1412	-.1789	.0569
270.000		.3651	.4147	.9015	.6181	.2205	-.0041	-.0517	-.1015	-.0928	.3384	.5517	-.2779	-.1685	.0172
300.000		.3233	.4332	.9565	.6749	.2857	.0202	-.0276	-.0812	-.0700	.1658	.3240	.0550	-.0793	-.1035
330.000		.2289	.5124	.9999	.7177	.3103	.0506	.0018	-.0568	-.0547	.1820	.0000		.0323	.0237

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0092	-.0242	.0069	.0128	.0033	-.1331
30.000	-.0245	-.0053	.0057	.0090	.0637	-.1331
60.000	.0423	.0515	.0076	.0080	.1593	-.1420
90.000	.0802	.0469	.0098	.1030	.3636	-.1500
120.000	-.0018	-.0032	-.0184	.1131	.3455	-.1334
135.000	.0061	-.0447	-.0218	.2983	.3372	
147.000	-.0220	-.0567	.0395	.2781	.3230	-.1644
162.000	-.0684	-.0757	.0304	.2440	.2970	
180.000	-.0684	-.1146	.0046	.2311	.2783	-.1551
198.000	-.0345	-.1045	.0352	.2087	.2375	
213.000	-.1473	-.0551	.0210	.2140	.2040	-.1637
225.000	-.0163	-.0288	-.0099	.2043	.2378	
240.000	.0281	-.0228	-.0200	.1342	.2825	-.1341
270.000	.0897	.0373	-.0087	.0982	.3652	-.1353
300.000	.0506	.0541	.0036	.0091	.1564	-.1350
330.000	-.0201	-.0060	.0027	-.0003	.0571	-.1363

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(6) = 3.495 BETAT (3) = 3.673

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0694	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.6689	.2305	.5244	1.0211	.8652	.3267	.0611	.0104	-.0434	-.0489	.1948	-.0292	.0569	.0816	.0462
30.000		.1597	.4772	.9152	.6657	.2616	.0193	-.0311	-.0799	-.0810	.1316	.0627	.0318	.0459	.0169
60.000		.2315	.3977	.8274	.5769	.1977	-.0235	-.0713	-.1165	-.1173	.1045	.1511	-.0132	-.0878	-.0483
90.000		.3142	.3718	.7359	.5237	.1540	-.0599	-.1004	-.1388	-.1058	.3026	.4574	-.291[illegible]	-.1826	.0112
120.000		.3237	.3797	.6584	.5065	.1323	-.0719	-.1080	-.1458	-.1452	.0378	.2078	-.139[illegible]	-.0790	-.0653
135.000			.3727	.6277	.5050	.1241	-.0710	-.1096	-.1464	-.1459	.0432	.0394	.1063	.0905	-.0[illegible]
147.000		.3227	.3696	.6245	.5107	.1307	-.0729	-.1055	-.1451	-.1462	.0384	.0724	.1558	.1609	-.0200
162.000			.3754	.6762	.5272	.1524	-.0688	-.1076	-.1407	-.1446	.0391	.0658	.1841	-.0164	.0265
180.000	1.6689	.3398	.3814	.7247	.6207	.1316	-.0466	-.0969	-.1341	-.1369	.0461	.0905	.2690	.3130	-.0105
198.000			.3750	.7924	.4910	.2059	-.0070	-.0963	-.1054	-.1115	.0621	.0949	.2311	.0993	.1601
213.000		.3566	.3801	.7745	.0000	.0165	-.1435	-.0434	-.1309	-.1369	.0148	.0746	.1666	.1385	.1384
225.000			.4605	.8718	.7570	.2638	-.0169	-.0505	-.0878	-.0855	.1058	.0423	-.0799	-.0732	.0698
240.000		.3625	.4385	.9270	.6930	.2745	.0066	-.0261	-.0887	-.0862	.1284	.2262	-.1450	-.1739	-.0168
270.000		.4025	.4532	1.0275	.7383	.3126	.0591	.0042	-.0586	-.0480	.4391	.6112	-.2651	-.1693	.0184
300.000		.4215	.4727	1.0760	.7887	.3728	.0857	.0325	-.0300	-.0258	.2327	.5040	.0355	-.0829	-.0959
330.000		.3927	.4982	1.0792	.7946	.3626	.0901	.0369	-.0287	-.0257	.2286	.0000		.0254	-.0120

X/LT	.5528	.6340	.7423	.8505	.9264	.9838
PHI						
.000	-.0076	-.0233	.0009	.0090	-.0083	-.1384
30.000	-.0331	-.0214	.0019	-.0[illegible]2	.0380	-.1307
60.000	.0409	.0265	-.0139	.0043	.1691	-.1530
90.000	.0674	.0443	-.0335	.1454	.3620	-.1384
120.000	-.0334	-.0114	-.0082	.1846	.2329	-.1702
135.000	-.0504	-.0822	.0085	.1997	.2626	
147.000	-.0759	-.0771	.0297	.2073	.2263	-.1444
162.000	-.0848	-.1208	-.0071	.2029	.2539	
180.000	-.0967	-.1138	-.0854	.1975	.3626	-.1661
198.000	-.1374	-.1347	-.0007	.1472	.5353	
213.000	.0041	-.0171	.0258	.1590	.2370	-.1639
225.000	.0387	.0107	-.0168	.1846	.3221	
240.000	.0520	.0199	.0428	.1354	.3558	-.1384
270.000	.0999	.0474	.0409	.0811	.3109	-.1377
300.000	.0466	.0452	.0330	.0210	.1322	-.1384
330.000	-.0161	.0326	.0204	.0110	.0734	-.1435

ARC97-019 IA81 LVAP(ALLHL SEALED) EXTERNAL TANK (RETT47)

ALPHAT(71) = 6.164 BETAT (1) = .033

SECTION (1)EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0134	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2931	.3362	.3904	.4445	.4987
PHI															
.000	1.0504	.1821	.6196	1.0687	.9301	.3652	.0920	.0387	-.0190	-.0189	.2440	.0055	.0677	.1403	.1037
30.000		.1634	.6345	1.0307	.7662	.3560	.0901	.0324	-.0287	-.0285	.2242	.0919	.0832	.0624	.0432
60.000		.2364	.4741	.9483	.6936	.2965	.0518	.0014	-.0558	-.0625	.1841	.3238	-.0006	-.0476	-.0512
90.000		.3089	.3531	.8560	.6128	.2317	-.0002	-.0444	-.0923	-.0895	.3945	.3854	-.312	-.1977	.0061
120.000		.3459	.3528	.7481	.5363	.1675	-.0409	-.0813	-.1266	-.1254	.0463	.1392	-.1941	-.2195	-.0625
135.000			.3582	.7088	.5050	.1528	-.0535	-.0895	-.1313	-.1350	.0450	.0307	-.0193	-.0542	-.0420
147.000		.3427	.3588	.6813	.4999	.1351	-.0589	-.0993	-.1391	-.1379	.0463	.0804	.1260	.1419	-.0213
162.000			.3674	.6437	.5078	.1320	-.0709	-.1020	-.1432	-.1407	.0374	.0782	.1482	.0631	.0250
180.000	1.0604	.3225	.3674	.5935	.5319	.1134	-.0677	-.1033	-.1473	-.1433	.0463	.0791	.2185	.2169	.0127
198.000			.3668	.6194	.4254	.1602	.0611	-.1108	-.1376	-.1436	.0304	.0649	.2056	.0142	.1559
213.000		.3316	3706	.6104	.0000	-.0008	-.1369	-.0803	-.1454	-.1449	-.0206	.0820	.1640	.1233	.0772
225.000			.4025	.6952	.6343	.1820	-.0633	-.0982	-.1254	-.1177	.0457	.0177	-.0650	-.0228	.0288
240.000		.3610	.3955	.7599	.5379	.1795	-.0494	-.0794	-.1312	-.1244	.0562	.1608	-.1873	-.2034	-.0495
270.000		.3383	.3869	.8724	.6045	.2204	-.0046	-.0467	-.1010	-.0971	.3090	.5366	-.2450	-.2053	.0108
300.000		.2583	.4523	.9532	.6920	.2988	.0393	-.0102	-.0583	-.0638	.1729	.3066	.1160	-.0342	-.0612
330.000		.1716	.6015	1.0398	.7651	.3459	.0785	.0260	-.0343	-.0337	.2166	.0000		.0599	.0522

X/LT	.5528	.6340	.7423	.8506	.9264	.9838
PHI						
.000	.0365	.0081	.0209	.0294	.0149	-.1258
30.000	.0069	.0103	.0234	.0193	0447	-.1338
60.000	.0399	.0616	.0231	.0073	.2118	-.1300
90.000	.0706	.0670	.0035	.1637	.4472	-.1412
120.000	.0091	-.0066	-.0072	.1804	.3440	-.1319
135.000	-.0001	-.0459	.0190	.3607	.3625	
147.000	-.0369	-.0524	.0680	.3305	.3667	-.1692
162.000	-.0734	-.0685	.0347	.2882	.3215	
180.000	-.0813	-.1118	.0410	.2737	.2715	-.1574
198.000	-.0441	-.1245	.0644	.2570	.2423	
213.000	-.0543	-.0537	.0454	.2504	.2362	-.1695
225.000	-.0297	-.0306	.0120	.2580	.2699	
240.000	.0431	-.0056	-.0082	.1836	.2779	-.1316
270.000	.1054	.0511	-.0217	.1493	.4738	-.1316
300.000	.0424	.0728	.0161	.0072	.2080	-.1294
330.000	.0072	.0035	.0231	.0097	.0371	-.1364

ARC97-019 IAB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC30) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.500 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = 55.000

BETAO (1) = .230 ALPHAO(1) = -6.381

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.000	03.0000	204.0000
	.000	-.1135	-.1238	-.1217	-.1259	-.1301	-.1310	-.1194	-.1155	-.0601	-.0640	-.1140	-.1100	-.0805	-.0748	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1235	-.0865	-.1028	-.1206	-.1079	-.1209	-.1215	-.1019	-.1198	-.1957	-.1957	-.2020	-.2065	-.1914	-.2014

BETAO (1) = .215 ALPHAO(2) = -4.330

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1128	-.1231	-.1177	-.1237	-.1315	-.1318	-.1703	-.1198	-.1149	-.0701	-.0809	-.1018	-.0748	-.0748	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1141	-.0784	-.0969	-.1255	-.1095	-.1145	-.1208	-.1012	-.1240	-.1991	-.1994	-.2054	-.2096	-.1952	-.2027

BETAO (1) = .182 ALPHAO(3) = -.116

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1170	-.1278	-.1233	-.1266	-.1358	-.1367	-.1209	-.1150	-.0958	-.0898	-.1132	-.1069	-.0815	-.1084	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1194	-.0898	-.0977	-.1197	-.1110	-.1110	-.1187	-.0893	-.1328	-.2064	-.2082	-.2130	-.2154	-.2019	-.2043

ARC97-019 IA81 EVAP(ALLHL SEALED) MISC. ORIFICES (RETC30)

BETAO (1) = .188 ALPHAO(4) = 4.056

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1169	-.1279	-.1267	-.1253	-.1345	-.1359	-.1214	-.1181	-.1098	-.0980	-.1172	-.1074	-.0763	-.1568	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1204	-.0807	-.1151	-.1157	-.1207	-.1321	-.1312	-.0931	-.1359	-.2045	-.2081	-.2120	-.2131	-.2010	-.2027

BETAO (1) = .209 ALPHAO(5) = 8.267

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1202	-.1309	-.1335	-.1329	-.1388	-.1394	-.1271	-.1271	-.1230	-.1033	-.1236	-.1122	-.0603	-.1398	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1269	-.0688	-.1160	-.1062	-.1110	-.1264	-.1264	-.0818	-.1400	-.2050	-.2091	-.2126	-.2144	-.2044	-.2058

BETAO (1) = .218 ALPHAO(6) = 10.355

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1160	-.1248	-.1239	-.1248	-.1307	-.1307	-.1217	-.1188	-.1247	-.1121	-.1182	-.1109	-.0569	-.1215	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1268	-.0669	-.0919	-.1042	-.1066	-.1186	-.1229	-.0795	-.1440	-.2050	-.2091	-.2130	-.2147	-.2047	-.2056

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC31) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.200 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPOBRK = 55.000

BETAO (1) = -.117 ALPHAO(1) = -6.403

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.000.	03.0000	204.0000
.000	-.1239	-.1370	-.1283	-.1359	-.1436	-.1442	-.1420	-.1384	-.0823	-.0966	-.1397	-.1399	-.0892	-.0908	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.1457	-.0994	-.0950	-.1481	-.1465	-.1646	-.1627	-.1311	-.1694	-.2347	-.2309	-.2408	-.2465	-.2254	-.2372

BETAO (1) = -.139 ALPHAO(2) = -4.308

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1310	-.1423	-.1357	-.1407	-.1511	-.1514	-.1483	-.1436	-.1016	-.1079	-.1444	-.1427	-.0901	-.0992	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.1507	-.1083	-.1143	-.1500	-.1419	-.1515	-.1542	-.1265	-.1770	-.2438	-.2410	-.2498	-.2559	-.2342	-.2443

BETAO (1) = -.174 ALPHAO(3) = -.147

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1344	-.1465	-.1440	-.1499	-.1539	-.1542	-.1496	-.1411	-.1223	-.1228	-.1438	-.1432	-.0776	-.1007	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.1506	-.1049	-.1115	-.1405	-.1424	-.1388	-.1498	-.1158	-.1842	-.2498	-.2487	-.2572	-.2619	-.2421	-.2465

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC31)

BETAO (1) = -.167 ALPHAO(4) = 4.050

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1294	-.1390	-.1302	-.1346	-.1478	-.1478	-.1411	-.1367	-.1428	-.1323	-.1386	-.1368	-.0769	-.1523	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1443	-.1064	-.1064	-.1332	-.1527	-.1582	-.1604	-.1191	-.1920	-.2530	-.2522	-.2596	-.2635	-.2423	-.2461

BETAO (1) = -.139 ALPHAO(5) = 8.292

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1375	-.1447	-.1469	-.1447	-.1513	-.1519	-.1480	-.1438	-.1571	-.1438	-.1471	-.1412	-.0750	-.1760	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1531	-.0932	-.1388	-.1302	-.1502	-.1524	-.1615	-.1129	-.1997	-.2596	-.2610	-.2671	-.2707	-.2513	-.2538

BETAO (1) = -.118 ALPHAO(6) = 10.383

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1309	-.1389	-.1375	-.1381	-.1433	-.1442	-.1421	-.1388	-.1634	-.1446	-.1440	-.1342	-.0729	-.1549	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1486	-.0892	-.0966	-.1268	-.1430	-.1458	-.1553	-.1088	-.2016	-.2593	-.2304	-.2671	-.2707	-.2453	-.2491

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC32) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = 55.000

BETAO (1) = .079 ALPHAO(1) = -6.373

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1159	-.1402	-.1288	-.1212	-.1415	-.1420	-.1310	-.1291	-.0877	-.1232	-.1462	-.1511	-.1183	-.1247	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1546	-.1231	-.1140	-.1575	-.1675	-.1826	-.1839	-.1455	-.2191	-.2745	-.2647	-.2840	-.2908	-.2452	-.2565

BETAO (1) = .053 ALPHAO(2) = -4.277

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1305	-.1510	-.1425	-.1279	-.1531	-.1547	-.1459	-.1398	-.1077	-.1355	-.1545	-.1591	-.1098	-.1202	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1612	-.1199	-.1119	-.1579	-.1579	-.1703	-.1700	-.1314	-.2310	-.2851	-.2764	-.2944	-.3016	-.2552	-.2655

BETAO (1) = .011 ALPHAO(3) = -.098

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1346	-.1494	-.1465	-.1247	-.1552	-.1563	-.1554	-.1452	-.1364	-.1455	-.1487	-.1561	-.0980	-.0948	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1601	-.1062	-.0961	-.1446	-.1514	-.1458	-.1603	-.1139	-.2364	-.2915	-.2836	-.3021	-.3101	-.2647	-.2605

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC32)

BETAO (1) = .020 ALPHAO(4) = 4.129

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1323	-.1437	-.1408	-.1256	-.1483	-.1482	-.1468	-.1401	-.1607	-.1399	-.1439	-.1438	-.0944	-.1300	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1490	-.1082	-.1242	-.1384	-.1670	-.1588	-.1726	-.1263	-.2423	-.2945	-.2873	-.3040	-.3102	-.2642	-.2588

BETAO (1) = .053 ALPHAO(5) = 8.392

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1372	-.1489	-.1391	-.1452	-.1500	-.1508	-.1525	-.1496	-.1814	-.1597	-.1536	-.1502	-.0766	-.1438	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1592	-.0969	-.0892	-.1394	-.1686	-.1581	-.1732	-.1201	-.2508	-.3029	-.2982	-.3125	-.3178	-.2750	-.2702

BETAO (1) = .074 ALPHAO(6) = 10.494

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1382	-.1504	-.1387	-.1424	-.1496	-.1499	-.1494	-.1446	-.1833	-.1569	-.1491	-.1492	-.0787	-.0931	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1546	-.0885	-.0904	-.1371	-.1606	-.1596	-.1680	-.1167	-.2532	-.3021	-.2373	-.3122	-.3173	-.2747	-.2654

ARC97-019 IA81 LVAP(ALLML SEALED) MISC. ORIFICES (RETC33) (12 OCT 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 3.000
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = 55.000

BETAO (1) = .428 ALPHAO(1) = -8.390

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.000	03.0000	204.0000
	.000	-.1342	-.1687	-.1692	-.1622	-.1653	-.1656	-.1641	-.1759	-.1365	-.1976	-.1892	-.1891	-.1504	-.1399	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1909	-.1373	-.1467	-.1900	-.1799	-.1917	-.2023	-.1283	-.4189	-.4539	-.4272	-.4863	-.4933	-.3952	-.3885

BETAO (1) = .401 ALPHAO(2) = -4.271

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1283	-.1622	-.1562	-.1591	-.1622	-.1629	-.1662	-.1694	-.1578	-.2014	-.1909	-.1855	-.1361	-.1293	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1870	-.1285	-.1387	-.1837	-.1571	-.1768	-.1844	-.1087	-.4207	-.4453	-.4504	-.4788	-.4894	-.3967	-.3967

BETAO (1) = .348 ALPHAO(3) = -.036

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1389	-.1514	-.1410	-.1467	-.1534	-.1542	-.1581	-.1524	-.1909	-.1870	-.1597	-.1637	-.1253	-.1107	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1752	-.1206	-.1227	-.1776	-.1417	-.1546	-.1645	-.0885	-.4218	-.4465	-.4457	-.4830	-.4936	-.3884	-.3992

ARC97-019 1AB1 LVAP(ALLML SEALED) MISC. ORIFICES (RETC33)

BETAO (1) = .366 ALPHAO(41) = 4.233

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1314	-.1462	-.1296	-.1376	-.1425	-.1430	-.1473	-.1452	-.1941	-.1826	-.1517	-.1535	-.1107	-.1007	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1657	-.1073	-.1141	-.1472	-.1747	-.1607	-.1804	-.1304	-.4239	-.4459	-.4428	-.4845	-.4921	-.3843	-.3796

BETAO (1) = .403 ALPHAO(51) = 8.510

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1501	-.1672	-.1573	-.1485	-.1584	-.1578	-.1701	-.1589	-.2290	-.1960	-.1793	-.1782	-.1085	-.1020	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.1860	-.1072	-.1036	-.1470	-.1846	-.1685	-.1908	-.1151	-.4277	-.4510	-.4469	-.4889	-.4892	-.3906	-.3813

ARC97-019 IA81 LVAP(ALLML SEALED) MISC. ORIFICES (RETC34) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = -4.000
RUDDER = .000 SPDBRK = .000

BETAO (1) = .403 ALPHAO(1) = -6.292

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.000	03.0000	204.0000
	.000	-.1527	-.1767	-.1628	-.1673	-.1839	-.1839	-.1791	-.1715	-.1460	-.1820	-.2036	-.1791	-.1480	-.1464	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1843	-.1411	-.1523	-.1902	-.1806	-.1893	-.2023	-.1316

BETAO (1) = .378 ALPHAO(2) = -4.209

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1527	-.1715	-.1566	-.1608	-.1795	-.1808	-.1683	-.1608	-.1624	-.1869	-.1882	-.1723	-.1338	-.1323	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1811	-.1342	-.1410	-.1794	-.1577	-.1700	-.1855	-.1055

BETAO (1) = .358 ALPHAO(3) = -2.124

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1472	-.1702	-.1508	-.1540	-.1753	-.1763	-.1644	-.1556	-.1755	-.1914	-.1706	-.1690	-.1286	-.1188	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1801	-.1293	-.1319	-.1723	-.1534	-.1747	-.1818	-.0995

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC34)

BETAO (11 = .342 ALPHAO(4) = -.027

SECTION (11MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1392	-.1621	-.1418	-.1466	-.1611	-.1611	-.1546	-.1459	-.1884	-.1829	-.1598	-.1636	-.1246	-.1051	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1717	-.1253	-.1201	-.1684	-.1384	-.1515	-.1596	-.0830

BETAO (11 = .348 ALPHAO(5) = 2.059

SECTION (11MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1341	-.1544	-.1283	-.1392	-.1560	-.1550	-.1448	-.1387	-.1879	-.1824	-.1581	-.1577	-.1262	-.1009	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1671	-.1243	-.1139	-.1615	-.1469	-.1459	-.1555	-.0811

BETAO (11 = .356 ALPHAO(6) = 3.707

SECTION (11MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1246	-.1438	-.1204	-.1326	-.1407	-.1420	-.1373	-.1331	-.1859	-.1713	-.1490	-.1474	-.1118	-.0953	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1587	-.1118	-.1151	-.1458	-.1668	-.1514	-.1726	-.1180

ARC97-019 IABI LVAP(ALLHL SEALED) MISC. ORIFICES (RETC34)

BETAO (1) = .369 ALPHAO(7) = 6.242

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1269	-.1550	-.1256	-.1221	-.1408	-.1405	-.1440	-.1310	-.1934	-.1703	-.1557	-.1572	-.1244	-.1169	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1607	-.1289	-.1166	-.1414	-.1735	-.1468	-.1777	-.1175

ARC87-019 IABI LVAP(ALLHL SEALED) MISC. ORIFICES (RETC35) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 876.0000 IN. XT
LREF = 1287.0000 INCHES YMRP = .0000 IN. YT
BREF = 1287.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = -4.000
RUDDER = .000 SPOBRK = .000

ALPHAO(1) = -6.733 BETAO (1) = -3.794

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.000.	03.000	204.0000
	.000	-.1652	-.1915	-.1848	-.1678	-.1940	-.1940	-.1885	-.1778	-.1172	-.0900	-.2075	-.1974	-.1174	-.1245	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2019	-.1162	-.1184	-.1598	-.2060	-.2076	-.2346	-.1598							

ALPHAO(1) = -6.319 BETAO (2) = -1.683

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1635	-.1849	-.1772	-.1658	-.1921	-.1921	-.1724	-.1683	-.1237	-.1166	-.2007	-.1918	-.1383	-.1409	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1982	-.1398	-.1384	-.1748	-.1800	-.1738	-.1982	-.1444							

ALPHAO(1) = -6.080 BETAO (3) = .381

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1525	-.1740	-.1808	-.1665	-.1821	-.1814	-.1710	-.1652	-.1424	-.1785	-.1951	-.1758	-.1458	-.1459	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1832	-.1393	-.1501	-.1889	-.1805	-.1882	-.2007	-.1287							

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC35)

ALPHA0(1) = -6.299 BETA0 (51 = 2.522

SECTION : 1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1453	-.1651	-.1476	-.1505	-.1674	-.1674	-.1590	-.1539	-.1529	-.2166	-.1861	-.1745	-.1363	-.1398	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1722	-.1327	-.1427	-.1794	-.1908	-.1914	-.2132	-.1416						

ALPHA0(1) = -6.042 BETA0 (51 = 4.587

SECTION : 1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1474	-.1746	-.1603	-.1474	-.1681	-.1688	-.1483	-.1492	-.1460	-.1730	-.1842	-.1841	-.1299	-.1334	0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1825	-.1274	-.1331	-.1747	-.1857	-.1780	-.2022	-.1387						

ALPHA0(2) = -4.215 BETA0 (1) = -5.870

SECTION : 1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1765	-.2007	-.1920	-.1714	-.2055	-.2060	-.1900	-.1861	-.1303	-.0927	-.2095	-.2036	-.1298	-.1463	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.2062	-.1317	-.1126	-.1708	-.2067	-.2156	-.2298	-.1508						

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC35)

ALPHAO(2) = -4.211 BETAO (2) = -3.827

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1639	-.1835	-.1716	-.1619	-.1871	-.1877	-.1830	-.1723	-.1376	-.1129	-.1963	-.1864	-.1060	-.1060	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1951	-.1021	-.0995	-.1620	-.1795	-.1869	-.2074	-.1423

ALPHAO(2) = -4.194 BETAO (3) = .385

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1509	-.1699	-.1541	-.1596	-.1776	-.1770	-.1669	-.1600	-.1600	-.1808	-.1863	-.1711	-.1342	-.1293	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1735	-.1310	-.1381	-.1784	-.1584	-.1693	-.1821	-.1086

ALPHAO(2) = -4.155 BETAO (4) = 4.561

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1452	-.1667	-.1477	-.1410	-.1742	-.1693	-.1532	-.1464	-.1594	-.1526	-.1740	-.1715	-.1229	-.1290	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1725	-.1229	-.1333	-.1718	-.1635	-.1635	-.1866	-.1287

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC35)

ALPHAO(2) = -4.139 BETAO (5) = 6.623

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1542	-.1793	-.1655	-.1448	-.1793	-.1793	-.1625	-.1557	-.1875	-.1687	-.1820	-.1848	-.1313	-.1388	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.1842	-.1310	-.1427	-.1857	-.1544	-.1528	-.1734	-.1177

ALPHAO(3) = -2.110 BETAO (1) = -5.871

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1773	-.2010	-.1880	-.1767	-.2036	-.2042	-.1949	-.1824	-.1595	-.1223	-.1968	-.1992	-.1141	-.1452	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.2074	-.1171	-.0919	-.1717	-.1998	-.2118	-.2235	-.1502

ALPHAO(3) = -2.109 BETAO (2) = -1.724

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1538	-.1754	-.1513	-.1577	-.1809	-.1795	-.1648	-.1567	-.1642	-.1580	-.1758	-.1753	-.1199	-.1082	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.1828	-.1176	-.1082	-.1652	-.1597	-.1764	-.1873	-.1154

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC35)

ALPHAO(3) = -2.081 BETAO (3) = 2.471

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1420	-.1661	-.1376	-.1414	-.1620	-.1610	-.1563	-.1439	-.1841	-.1832	-.1717	-.1688	-.1190	-.1155	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1729	-.1174	-.1283	-.2473	-.1407	-.1420	-.1547	-.0982

ALPHAO(3) = -2.052 BETAO (4) = 6.607

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1668	-.1860	-.1681	-.1505	-.1848	-.1854	-.1765	-.1678	-.2011	-.1739	-.1846	-.1903	-.1273	-.1363	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1896	-.1331	-.1428	-.1776	-.1407	-.1420	-.1547	-.0982

ALPHAO(4) = .004 BETAO (1) = -5.872

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1799	-.2027	-.1937	-.1729	-.2065	-.2135	-.2017	-.1911	-.1865	-.1445	-.2037	-.2019	-.0923	-.1400	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.2071	-.1064	-.0661	-.1717	-.2022	-.2141	-.2189	-.1511

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC35)

ALPHAO(4) = .007 BETAO (2) = -3.836

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1516	-.1753	-.1509	-.1618	-.1701	-.1701	-.1658	-.1597	-.1777	-.1497	-.1758	-.1743	-.0973	-.1012	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1837	-.0976	-.0789	-.1572	-.1804	-.1916	-.2015	-.1350

ALPHAO(4) = .019 BETAO (3) = .354

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1451	-.1678	-.1451	-.1409	-.1665	-.1669	-.1590	-.1490	-.1916	-.1865	-.1658	-.1698	-.1354	-.1186	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1750	-.1357	-.1231	-.1688	-.1434	-.1546	-.1620	-.0872

ALPHAO(4) = .011 BETAO (4) = 4.521

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1473	-.1717	-.1582	-.1388	-.1697	-.1694	-.1650	-.1502	-.1886	-.1560	-.1696	-.1722	-.1126	-.1142	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1751	-.1146	-.1274	-.1602	-.1695	-.1733	-.1791	-.1024

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC35)

ALPHAO(4) = .022 BETAO (5) = 6.587

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1671	-.1965	-.1681	-.1578	-.1940	-.1943	-.1869	-.1695	-.1943	-.1898	-.1872	-.2012	-.1239	-.1288	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2018	-.1259	-.1394	-.1694	-.1371	-.1413	-.1464	-.0784							

ALPHAO(5) = 2.066 BETAO (1) = -5.888

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1821	-.1964	-.1793	-.1926	-.2088	-.2085	-.1951	-.1931	-.2066	-.1797	-.2015	-.1985	-.0814	-.1358	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2046	-.0942	-.0770	-.1818	-.2093	-.2077	-.2185	-.1459							

ALPHAO(5) = 2.063 BETAO (2) = -1.746

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1435	-.1590	-.1393	-.1514	-.1625	-.1634	-.1554	-.1519	-.1915	-.1755	-.1643	-.1579	-.1022	-.0933	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1700	-.1019	-.0853	-.1545	-.1680	-.1604	-.1740	-.0991							

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC35)

ALPHAO(5) = 2.078 BETAO (3) = 2.458

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1349	-.1599	-.1333	-.1260	-.1517	-.1523	-.1465	-.1318	-.1919	-.1606	-.1551	-.1617	-.1011	-.0957	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1649	-.1046	-.1101	-.1485	-.1709	-.1659	-.1766	-.1093

ALPHAO(5) = 2.104 BETAO (4) = 6.587

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1667	-.1930	-.1787	-.1534	-.1901	-.1905	-.1872	-.1728	-.2054	-.2064	-.1910	-.1978	-.1088	-.1171	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1998	-.1158	-.1298	-.1633	-.1554	-.1418	-.1614	-.0885

ALPHAO(6) = 4.193 BETAO (1) = -5.872

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1807	-.2075	-.1976	-.1750	-.2113	-.2119	-.2035	-.1900	-.2212	-.1871	-.2044	-.2074	-.0676	-.0872	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.2116	-.1099	-.0862	-.1552	-.2116	-.1973	-.2148	-.1429

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC35)

ALPHAO(6) = 4.191 BETAO (2) = -3.831

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1491	-.1775	-.1593	-.1456	-.1689	-.1708	-.1669	-.1556	-.2183	-.1771	-.1723	-.1746	-.0939	-.0480	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1810	-.0975	-.0878	-.1378	-.2084	-.2020	-.2160	-.1609

ALPHAO(6) = 4.197 BETAO (3) = .361

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1265	-.1460	-.1237	-.1358	-.1464	-.1451	-.1382	-.1356	-.1875	-.1746	-.1537	-.1501	-.1130	-.0976	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1627	-.1121	-.1159	-.1472	-.1674	-.1524	-.1763	-.1229

ALPHAO(6) = 4.208 BETAO (4) = 4.530

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1530	-.1786	-.1699	-.1478	-.1782	-.1789	-.1737	-.1617	-.2063	-.1804	-.1759	-.1788	-.0991	-.1078	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1839	-.1055	-.1223	-.1383	-.1998	-.1785	-.2027	-.1370

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC35)

ALPHAO(6) = 4.216 BETAO (5) = 6.589

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1758	-.2020	-.1889	-.1617	-.1997	-.2004	-.1923	-.1784	-.2126	-.2055	-.1987	-.2092	-.1046	-.1181	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2128	-.1123	-.1274	-.1551	-.1653	-.1448	-.1659	-.0979							

ALPHAO(7) = 6.319 BETAO (1) = -3.811

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1447	-.1732	-.1428	-.1447	-.1723	-.1687	-.1715	-.1515	-.2312	-.1783	-.1663	-.1720	-.1079	-.0663	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1878	-.1124	-.1091	-.1396	-.2241	-.2017	-.2292	-.1745							

ALPHAO(7) = 5.315 BETAO (2) = -1.716

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1427	-.1686	-.1542	-.1333	-.1579	-.1555	-.1571	-.1455	-.2281	-.1790	-.1649	-.1697	-.1060	-.0921	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1726	-.1072	-.1066	-.1376	-.1967	-.1663	-.2027	-.1433							

ARC97-019 IA81 LVAP(ALLML SEALED) MISC. ORIFICES (RETC35)

ALPHAO(7) = 6.318 BETAO (3) = .374

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1289	-.1576	-.1289	-.1234	-.1420	-.1413	-.1452	-.1316	-.1935	-.1703	-.1539	-.1578	-.1224	-.1131	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1598	-.1256	-.1144	-.1404	-.1734	-.1466	-.1776	-.1140

ALPHAO(7) = 6.321 BETAO (4) = 2.475

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1391	-.1692	-.1362	-.1324	-.1561	-.1561	-.1545	-.1396	-.1810	-.1813	-.1651	-.1694	-.0965	-.0897	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1778	-.1007	-.1084	-.1277	-.1982	-.1681	-.1994	-.1454

ALPHAO(7) = 6.324 BETAO (5) = 4.539

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1623	-.1933	-.1714	-.1553	-.1920	-.1917	-.0328	-.0780	-.1770	-.1346	-.0658	-.0054	.0813	-.1685	-.1452

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1535	-.1449	-.1071	.4281	.0760	-.0017	.4007	.3161

ARC97-019 IA81 LVAP(ALLML SEALED) MISC. ORIFICES (RETC36) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = -4.000
RUDDER = .000 SPOBRK = .000

ALPHAO(1) = -6.354 BETAO (1) = -4.160

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.000	03.0000	204.0000
	.000	-.1410	-.1629	-.1558	-.1519	-.1662	-.1642	-.1525	-.1430	-.0742	-.0895	-.1616	-.1603	-.1036	-.1626	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1642	-.1059	-.1583	-.1603	-.1819	-.2071	-.2045	-.1693							

ALPHAO(1) = -6.341 BETAO (2) = -2.050

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1389	-.1589	-.1502	-.1402	-.1589	-.1605	-.1437	-.1349	-.0801	-.0947	-.1561	-.1570	-.0860	-.1130	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1609	-.1169	-.1023	-.1570	-.1788	-.2005	-.1973	-.1536							

ALPHAO(1) = -6.322 BETAO (3) = .062

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1377	-.1549	-.1452	-.1394	-.1559	-.1562	-.1433	-.1348	-.0890	-.1276	-.1508	-.1523	-.1193	-.1373	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1562	-.1258	-.1167	-.1556	-.1702	-.185	-.1873	-.1475							

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC36)

ALPHAO(1) = -6.302 BETAO (4) = 2.174

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1359 -.1528 -.1395 -.1401 -.1547 -.1551 -.1420 -.1368 -.1060 -.1502 -.1538 -.1512 -.1054 -.1198 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1557 -.1061 -.1208 -.1503 -.1627 -.1812 -.1883 -.1485

ALPHAO(1) = -6.286 BETAO (5) = 4.251

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.000(6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1359 -.1602 -.1615 -.1417 -.15[illegible] -.1572 -.1442 -.1429 -.1223 -.1763 -.1593 -.1628 -.1080 -.1158 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1674 -.1109 -.1191 -.1515 -.1421 -.1534 -.1605 -.1246

ALPHAO(2) = -4.273 BETAO (1) = -6.247

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1580 -.1794 -.1826 -.1742 -.1820 -.1820 -.1783 -.1655 -.0790 -.0860 -.1753 -.1724 -.0771 -.2145 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1777 -.1003 -.1852 -.1530 -.1664 -.1807 -.1839 -.1506

ARC97-019 (A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC36)

ALPHAO(2) = -4.265 BETAO (2) = -4.183

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1474	-.1694	-.1668	-.1548	-.1743	-.1730	-.1656	-.1506	-.0951	-.1023	-.1668	-.1640	-.0948	-.1646	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1695	-.0997	-.1454	-.1586	-.1710	-.1901	-.1898	-.1467						

ALPHAO(2) = -4.235 BETAO (3) = .039

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1421	-.1602	-.1557	-.1370	-.1641	-.1641	-.1559	-.1444	-.1069	-.1346	-.1562	-.1571	-.1115	-.1232	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1620	-.1199	-.1095	-.1547	-.1567	-.1670	-.1722	-.1292						

ALPHAO(2) = -4.200 BETAO (4) = 4.234

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1441	-.1659	-.1665	-.1422	-.1675	-.1681	-.1512	-.1469	-.1423	-.1832	-.1643	-.1679	-.1058	-.1169	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1731	-.1091	-.1221	-.1547	-.1303	-.1433	-.1513	-.1135						

ARC97-019 1ABI LVAP(ALLML SEALED) MISC. ORIFICES (RETC36)

ALPHAO(2) = -4.192 BETAO (5) = 6.302

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1437	-.1654	-.1768	-.1411	-.1674	-.1880	-.1522	-.1486	-.1518	-.1992	-.1843	-.1680	-.0988	-.1141	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1748	-.1030	-.1190	-.1529	-.1244	-.1309	-.1325	-.0959							

ALPHAO(3) = -2.186 BETAO (1) = -6.258

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1576	-.1789	-.1802	-.1712	-.1822	-.1832	-.1792	-.1667	-.0942	-.0942	-.1756	-.1722	-.0652	-.1980	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1791	-.0864	-.1481	-.1506	-.1720	-.1766	-.1814	-.1319							

ALPHAO(3) = -2.175 BETAO (2) = -2.080

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1524	-.1726	-.1716	-.1515	-.1797	-.1803	-.1708	-.1585	-.1258	-.1304	-.1686	-.1664	-.0590	-.1086	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1713	-.1207	-.1184	-.1501	-.1678	-.1768	-.1833	-.1248							

ARC87-019 IA81 LVAP(ALL ML SEALED) MISC. ORIFICES (RETC36)

ALPHA0(3) = -2.148 BETA0 (3) = 2.137

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1442	-.1591	-.1481	-.1562	-.1718	-.1724	-.1549	-.1513	-.1386	-.1684	-.1576	-.1563	-.1162	-.1142	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1612	-.1191	-.1129	-.1514	-.1454	-.1567	-.1600	-.1183						

ALPHA0(3) = -2.124 BETA0 (4) = 6.280

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1467	-.1700	-.1717	-.1412	-.1713	-.1729	-.1540	-.1501	-.1651	-.1995	-.1668	-.1700	-.0959	-.1063	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1772	-.0988	-.1145	-.1510	-.1214	-.1214	-.1295	-.0903						

ALPHA0(4) = -.096 BETA0 (1) = -6.268

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1528	-.1768	-.1755	-.1667	-.1791	-.1804	-.1740	-.1648	-.1128	-.1042	-.1753	-.1729	-.0470	-.2011	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1795	-.0765	-.1360	-.1453	-.1755	-.1765	-.1814	-.1376						

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC36)

ALPHAO(4) = -.095 BETAO (2) = -4.207

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1568	-.1789	-.1795	-.1659	-.1847	-.1857	-.1797	-.1689	-.1245	-.1212	-.1758	-.1713	-.0401	-.1762	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1772	-.0969	-.1194	-.1492	-.1754	-.1716	-.1845	-.1327							

ALPHAO(4) = -.084 BETAO (3) = .007

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1432	-.1603	-.1594	-.1396	-.1675	-.1684	-.1610	-.1529	-.1404	-.1470	-.1581	-.1560	-.1018	-.0874	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1616	-.1090	-.1129	-.1431	-.1547	-.1483	-.1651	-.1221							

ALPHAO(4) = -.062 BETAO (4) = 4.192

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1487	-.1681	-.1574	-.1542	-.1752	-.1759	-.1608	-.1563	-.1599	-.1857	-.1654	-.1648	-.1018	-.0982	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1703	-.1086	-.1060	-.1512	-.1325	-.1270	-.1389	-.0952							

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC36)

ALPHAO(4) = -.055 BETAO (5) = 6.267

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1445 -.1692 -.1643 -.1419 -.1715 -.1724 -.1537 -.1479 -.1704 -.1972 -.1652 -.1676 -.0925 -.0961 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1735 -.0958 -.1075 -.1468 -.1169 -.1147 -.1234 -.0804

ALPHAO(5) = 1.985 BETAO (1) = -6.257

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1522 -.1737 -.1707 -.1688 -.1785 -.1789 -.1680 -.1638 -.1310 -.1140 -.1739 -.1717 -.0330 -.2103 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1812 -.0677 -.1406 -.1360 -.1748 -.1809 -.1842 -.1317

ALPHAO(5) = 1.981 BETAO (2) = -2.089

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1541 -.1755 -.1761 -.1632 -.1826 -.1829 -.1741 -.1682 -.1476 -.1430 -.1751 -.1699 -.0468 -.1598 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1751 -.1010 -.0964 -.1284 -.1677 -.1657 -.1767 -.1317

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC36)

ALPHAO(5) = 1.994 BETAO (3) = 2.124

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1431	-.1603	-.1509	-.1544	-.1729	-.1745	-.1558	-.1532	-.1575	-.1715	-.1594	-.1567	-.1074	-.1015	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1632	-.1132	-.1087	-.1338	-.1456	-.1378	-.1540	-.1207

ALPHAO(5) = 2.005 BETAO (4) = 6.266

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1430	-.1677	-.1696	-.1463	-.1634	-.1634	-.1607	-.1574	-.1751	-.1937	-.1659	-.1663	-.0990	-.0921	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1721	-.0983	-.1049	-.1320	-.1232	-.1184	-.1268	-.0850

ALPHAO(6) = 4.105 BETAO (1) = -6.249

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1492	-.1676	-.1624	-.1676	-.1731	-.1738	-.1648	-.1625	-.1433	-.1250	-.1727	-.1679	-.0328	-.2087	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1803	-.0664	-.1300	-.1314	-.1726	-.1790	-.1865	-.1358

AR297-019 TAB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC36)

ALPHAO(6) = 4.105 BETAO (2) = -4.195

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1519	-.1759	-.1743	-.1600	-.1843	-.1856	-.1711	-.1649	-.1528	-.1362	-.1724	-.1709	-.0307	-.1898	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1774	-.0979	-.1321	-.1353	-.1774	-.1793	-.1868	-.1396

ALPHAO(6) = 4.105 BETAO (3) = .015

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1413	-.1585	-.1510	-.1514	-.1676	-.1669	-.1584	-.1522	-.1672	-.1512	-.1607	-.1557	-.1009	-.1267	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1632	-.1061	-.1342	-.1266	-.1645	-.1594	-.1736	-.1316

ALPHAO(6) = 4.102 BETAO (4) = 4.191

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1500	-.1717	-.1648	-.1592	-.1845	-.1858	-.1674	-.1641	-.1797	-.1953	-.1734	-.1674	-.1059	-.1006	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1730	-.1121	-.1121	-.1401	-.1429	-.1314	-.1515	-.1075

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC36)

ALPHAO(6) = 4.104 BETAO (5) = 6.248

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1434 -.1673 -.1654 -.1424 -.1654 -.1660 -.1600 -.1524 -.1812 -.1904 -.1666 -.1639 -.0900 -.0874 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1695 -.0943 -.1009 -.1370 -.1276 -.1210 -.1322 -.0919

ALPHAO(7) = 6.207 BETAO (1) = -4.161

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1515 -.1728 -.1656 -.1633 -.1833 -.1837 -.1666 -.1639 -.1530 -.1365 -.1712 -.1685 -.0160 -.1685 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1754 -.1040 -.1136 -.1338 -.1790 -.1820 -.1869 -.1334

ALPHAO(7) = 6.210 BETAO (2) = -2.065

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1524 -.1757 -.1714 -.1665 -.1869 -.1872 -.1709 -.1669 -.1636 -.1504 -.1732 -.1713 -.0510 -.1716 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1792 -.0731 -.1432 -.1330 -.1778 -.1775 -.1873 -.1335

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ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC36)

ALPHAO(7) = 8.220 BETAO (3) = .028

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1377	-.1577	-.1580	-.1534	-.1606	-.1606	-.1559	-.1506	-.1765	-.1450	-.1599	-.1529	-.0865	-.1159	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1661	-.1010	-.1222	-.1331	-.1729	-.1693	-.1830	-.1296							

ALPHAO(7) = 6.219 BETAO (4) = 2.132

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1458	-.1651	-.1596	-.1524	-.1786	-.1796	-.1626	-.1589	-.1754	-.1655	-.1613	-.0940	-.1234	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1682	-.0986	-.1118	-.1327	-.1591	-.1502	-.1699	-.1243						

ALPHAO(7) = 6.217 BETAO (5) = 4.196

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1507	-.1706	-.1621	-.1657	-.1850	-.1867	-.1706	-.1679	-.1851	-.1934	-.1729	-.1665	-.0884	-.0868	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1744	-.0944	-.1026	-.1399	-.1394	-.1283	-.1483	-.1002							

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC37) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.200 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = -4.000
RUDDER = .000 SPDBRK = .000

ALPHAO(1) = -8.357 BETAO (1) = -4.340

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000 03.0000204.0000

.000 -.1488 -.1576 -.1763 -.1796 -.1715 -.1712 -.1667 -.1684 -.0600 -.0719 -.1619 -.1518 -.1038 -.2281 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1614 -.0997 -.1838 -.1547 -.1558 -.1767 -.1770 -.1551

ALPHAO(1) = -6.346 BETAO (2) = -2.232

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1385 -.1561 -.1578 -.1493 -.1578 -.1578 -.1514 -.1428 -.0740 -.0038 -.1527 -.1465 -.0750 -.1448 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1557 -.1012 -.1417 -.1424 -.1546 -.1748 -.1745 -.1495

ALPHAO(1) = -6.330 BETAO (3) = -.129

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1293 -.1468 -.1495 -.1367 -.1495 -.1505 -.1416 -.1335 -.0883 -.1009 -.1447 -.1398 -.0902 -.1187 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1486 -.1031 -.1099 -.1501 -.1507 -.1673 -.1693 -.1362

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC37)

ALPHAO(1) = -6.316 BETAO (4) = 1.982

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1279	-.1445	-.1360	-.1364	-.1482	-.1482	-.1370	-.1319	-.0988	-.1261	-.1428	-.1391	-.0966	-.1177	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1483	-.0983	-.1099	-.1453	-.1510	-.1713	-.1757	-.1439

ALPHAO(1) = -6.303 BETAO (5) = 4.052

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1266	-.1479	-.1530	-.1371	-.1469	-.1479	-.1375	-.1389	-.1167	-.1457	-.1477	-.1450	-.0961	-.1059	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1538	-.1002	-.1097	-.1440	-.1464	-.1555	-.1636	-.1369

ALPHAO(2) = -4.273 BETAO (1) = -6.424

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1535	-.1691	-.1854	-.1922	-.1806	-.1800	-.1701	-.1807	-.0564	-.0526	-.1656	-.1589	-.1203	-.2343	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1691	-.1066	-.2019	-.1489	-.1449	-.1535	-.1555	-.1309

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC37)

ALPHAO(2) = -4.268 BETAO (2) = -4.362

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1452	-.1545	-.1737	-.1763	-.1697	-.1697	-.1634	-.1690	-.0677	-.0737	-.1584	-.1498	-.1036	-.2267	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1602	-.0916	-.1824	-.1457	-.1491	-.1633	-.1629	-.1276							

ALPHAO(2) = -4.242 BETAO (3) = -.145

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1323	-.1485	-.1501	-.1402	-.1528	-.1538	-.1443	-.1366	-.0996	-.1046	-.1450	-.1404	-.0867	-.1137	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1494	-.1004	-.1104	-.1411	-.1374	-.1489	-.1532	-.1228							

ALPHAO(2) = -4.216 BETAO (4) = 4.041

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1282	-.1460	-.1450	-.1308	-.1494	-.1497	-.1348	-.1316	-.1219	-.1446	-.1443	-.1424	-.0924	-.1041	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1524	-.0977	-.1087	-.1399	-.1237	-.1376	-.1439	-.1135							

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC37)

ALPHAO(2) = -4.212 BETAO (5) = 6.106

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1358	-.1560	-.1696	-.1464	-.1606	-.1616	-.1508	-.1491	-.1320	-.1728	-.1564	-.1528	-.0884	-.1064	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1662	-.0971	-.1108	-.1415	-.1031	-.1107	-.1151	-.0819						

ALPHAO(3) = -2.199 BETAO (1) = -6.426

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1465	-.1628	-.1777	-.1827	-.1754	-.1754	-.1601	-.1725	-.0633	-.0536	-.1591	-.1521	-.0987	-.1922	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1622	-.0904	-.1852	-.1437	-.1508	-.1527	-.1584	-.1166						

ALPHAO(3) = -2.186 BETAO (2) = -2.253

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1433	-.1616	-.1659	-.1586	-.1663	-.1676	-.1599	-.1542	-.1026	-.1026	-.1579	-.1505	-.0720	-.1541	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1598	-.0920	-.1050	-.1410	-.1506	-.1579	-.1628	-.1114						

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC37)

ALPHAO(3) = -2.171 BETAO (3) = 1.947

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1344	-.1494	-.1421	-.1477	-.1567	-.1577	-.1478	-.1439	-.1218	-.1349	-.1479	-.1420	-.1009	-.0912	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1520	-.1042	-.0992	-.1401	-.1338	-.1437	-.1480	-.1149

ALPHAO(3) = -2.158 BETAO (4) = 6.083

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1413	-.1619	-.1666	-.1516	-.1669	-.1673	-.1535	-.1521	-.1427	-.1682	-.1618	-.1567	-.0841	-.0955	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1714	-.0922	-.1012	-.1377	-.1085	-.1121	-.1145	-.0740

ALPHAO(4) = -.138 BETAO (1) = -6.431

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1478	-.1637	-.1786	-.1813	-.1773	-.1773	-.1640	-.1740	-.0773	-.0846	-.1626	-.1538	-.0880	-.1778	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1628	-.0818	-.1778	-.1377	-.1622	-.1635	-.1648	-.1346

ARC87-019 IA81 LVAP(ALLML SEALED) MISC. ORIFICES (RETC37)

ALPHA0(4) = -.135 BETA0 (2) = -4.375

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1483	-.1673	-.1709	-.1708	-.1758	-.1762	-.1862	-.1865	-.0814	-.0877	-.1638	-.1951	-.0572	-.1714	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1868	-.0826	-.1634	-.1391	-.1853	-.1759	-.1753	-.1350							

ALPHA0(4) = -.128 BETA0 (3) = -.174

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1375	-.1552	-.1575	-.1468	-.1635	-.1648	-.1567	-.1483	-.1254	-.1248	-.1540	-.1452	-.0799	-.0990	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1536	-.0994	-.1091	-.1345	-.1437	-.1421	-.1530	-.1118							

ALPHA0(4) = -.113 BETA0 (4) = 4.000

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1362	-.1538	-.1462	-.1475	-.1628	-.1638	-.1484	-.1474	-.1410	-.1551	-.1531	-.1465	-.0989	-.0933	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1555	-.1063	-.1020	-.1410	-.1294	-.1281	-.1384	-.1008							

ARC97-019 IAB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC37)

ALPHAO(4) = -.090 BETAO (5) = 6.061

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1456 -.1685 -.1720 -.1532 -.1738 -.1752 -.1607 -.1573 -.1526 -.1711 -.1677 -.1619 -.0846 -.0873 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1753 -.0943 -.0963 -.1403 -.1082 -.1029 -.1160 -.0796

ALPHAO(5) = 1.916 BETAO (1) = -6.431

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1507 -.1663 -.1790 -.1777 -.1797 -.1803 -.1676 -.1717 -.0927 -.0745 -.1643 -.1577 -.0560 -.1845 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1677 -.0738 -.1755 -.1296 -.1612 -.1680 -.1655 -.1205

ALPHAO(5) = 1.916 BETAO (2) = -2.268

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1468 -.1645 -.1688 -.1681 -.1738 -.1748 -.1659 -.1636 -.1212 -.1155 -.1649 -.1577 -.0627 -.1671 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1681 -.0714 -.1453 -.1283 -.1622 -.1738 -.1728 -.1352

ARC97-019 1A01 LVAP(ALLML SEALED) MISC. ORIFICES (RETC37)

ALPHA0(5) = 1.931 BETA0 (3) = 1.934

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1342 -.1512 -.1449 -.1476 -.1599 -.1599 -.1487 -.1463 -.1450 -.1437 -.1511 -.1439 -.0936 -.1040 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1540 -.1006 -.1090 -.1205 -.1441 -.1448 -.1548 -.1198

ALPHA0(5) = 1.943 BETA0 (4) = 6.065

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1461 -.1682 -.1735 -.1528 -.1752 -.1768 -.1604 -.1591 -.1567 -.1675 -.1678 -.1592 -.0810 -.0776 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1717 -.0897 -.0887 -.1340 -.1069 -.1015 -.1149 -.0842

ALPHA0(6) = 4.018 BETA0 (1) = -6.417

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1424 -.1603 -.1633 -.1630 -.1663 -.1669 -.1578 -.1558 -.1077 -.0880 -.1608 -.1546 .0004 -.1823 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1656 -.0726 -.1746 -.1312 -.1603 -.1729 -.1706 -.1248

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC37)

ALPHAO(6) = 4.022 BETAO (2) = -4.361

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1456	-.1678	-.1698	-.1638	-.1747	-.1757	-.1631	-.1614	-.1192	-.1031	-.1648	-.1605	-.0509	-.1815	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1711	-.0686	-.1561	-.1263	-.1638	-.1734	-.1727	-.1270

ALPHAO(6) = 4.025 BETAO (3) = -.168

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1334	-.1517	-.1500	-.1411	-.1593	-.1596	-.1506	-.1433	-.1439	-.1329	-.1506	-.1442	-.0681	-.1351	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1532	-.1024	-.1064	-.1237	-.1547	-.1623	-.1679	-.1238

ALPHAO(6) = 4.034 BETAO (4) = 3.991

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1405	-.1607	-.1580	-.1530	-.1736	-.1752	-.1571	-.1554	-.1588	-.1681	-.1621	-.1523	-.0946	-.0989	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1603	-.1036	-.1099	-.1274	-.1357	-.1340	-.1503	-.1079

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC37)

ALPHAO(6) = 4.038 BETAO (5) = 6.064

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1458 -.1680 -.1720 -.1538 -.1750 -.1763 -.1662 -.1625 -.1658 -.1692 -.1705 -.1601 -.0844 -.0771 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1711 -.0991 -.0958 -.1287 -.1063 -.1010 -.1156 -.0825

ALPHAO(7) = 6.134 BETAO (1) = -4.334

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1453 -.1641 -.1661 -.1664 -.1790 -.1793 -.1636 -.1636 -.1332 -.1115 -.1642 -.1597 -.0551 -.1921 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1721 -.0591 -.1487 -.1251 -.1546 - 1619 -.1675 -.1272

ALPHAO(7) = 6.130 BETAO (2) = -2.240

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1463 -.1688 -.1695 -.1682 -.1784 -.1794 -.1660 -.1657 -.1429 -.1289 -.1664 -.1606 -.0619 -.1993 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1706 -.0493 -.1460 -.1274 -.1533 -.1622 -.1692 -.1252

ARC97-019 (AB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC37)

ALPHAO(7) = 6.130 BETAO (3) = -.154

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1341	-.1503	-.1526	-.1503	-.1593	-.1586	-.1478	-.1431	-.1508	-.1284	-.1495	-.1423	-.0633	-.1443	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1530	-.0973	-.1186	-.1245	-.1519	-.1605	-.1691	-.1207						

ALPHAO(7) = 6.134 BETAO (4) = 1.951

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1379	-.1594	-.1584	-.1471	-.1677	-.1693	-.1578	-.1515	-.1559	-.1429	-.1596	-.1517	-.0785	-.1411	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1601	-.0841	-.1201	-.1239	-.1444	-.1524	-.1610	-.1117						

ALPHAO(7) = 6.135 BETAO (5) = 3.996

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1435	.1634	-.1597	-.1611	-.1773	-.1783	-.1622	-.1608	-.1615	-.1752	-.1655	-.1560	-.0822	-.0906	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1656	-.0896	-.1013	-.1287	-.1297	-.1287	-.1432	-.1009						

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC38) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.500 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = -4.000
RUDDER = .000 SPDBRK = .000

ALPHAO(1) = -6.289 BETAO (1) = -3.981

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.000(03.0000204.0000

.000 -.1232 -.1388 -.1568 -.1564 -.1465 -.1462 -.1469 -.1508 -.0416 -.0363 -.1369 -.1167 -.1491 -.1879 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1349 -.1071 -.1744 -.1397 -.1283 -.1463 -.1484 -.1311

ALPHAO(1) = -6.280 BETAO (2) = -1.881

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1150 -.1246 -.1362 -.1418 -.1369 -.1369 -.1346 -.1335 -.0548 -.0509 -.1282 -.1128 -.1152 -.1720 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1284 -.0787 -.1532 -.1320 -.1203 -.1382 -.1379 -.1188

ALPHAO(1) = -6.268 BETAO (3) = .215

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1087 -.1239 -.1242 -.1235 -.1288 -.1295 -.1202 -.1156 -.0641 -.0662 -.1191 -.1082 -.0784 -.1313 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1228 -.0859 -.1277 -.1268 -.1170 -.1329 -.1343 -.1128

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC38)

ALPHAO(1) = -6.259 BETAO (4) = 2.322

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1049 -.1200 -.1204 -.1147 -.1246 -.1250 -.1151 -.1105 -.0714 -.0963 -.1173 -.1061 -.0774 -.0901 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1217 -.0781 -.0884 -.1226 -.1171 -.1336 -.1375 -.1153

ALPHAO(1) = -6.250 BETAO (5) = 4.369

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1075 -.1240 -.1325 -.1188 -.1293 -.1300 -.1187 -.1180 -.0789 -.1173 -.1240 -.1090 -.0747 -.0874 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1246 -.0807 -.0849 -.1293 -.1104 -.1217 -.1294 -.1034

ALPHAO(2) = -4.232 BETAO (1) = -6.049

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1264 -.1451 -.1574 -.1655 -.1528 -.1521 -.1500 -.1557 -.0427 -.0320 -.1397 -.1246 -.1572 -.1848 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1444 -.1171 -.1696 -.1384 -.1290 -.1375 -.1421 -.1118

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC38)

ALPHAO(2) = -4.224 BETAO (2) = -3.999

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1274	-.1443	-.1574	-.1574	-.1510	-.1507	-.1493	-.1542	-.0557	-.0465	-.1418	-.1217	-.1440	-.1866	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1391	-.1040	-.1703	-.1373	-.1272	-.1343	-.1389	-.1138							

ALPHAO(2) = -4.198 BETAO (3) = .210

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1081	-.1242	-.1291	-.1204	-.1305	-.1312	-.1239	-.1165	-.0734	-.0691	-.1221	-.1082	-.0762	-.1142	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1237	-.0800	-.0987	-.1242	-.1134	-.1250	-.1281	-.1050							

ALPHAO(2) = -4.182 BETAO (4) = 4.367

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1141	-.1302	-.1389	-.1277	-.1365	-.1368	-.1246	-.1253	-.0893	-.1197	-.1289	-.1148	-.0774	-.0827	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1342	-.0862	-.0781	-.1307	-.0937	-.1071	-.1127	-.0853							

ARC97-019 1AB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC38)

ALPHAO(2) = -4.175 BETAO (5) = 6.419

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1182 -.1364 -.1441 -.1318 -.1423 -.1427 -.1336 -.1326 -.1000 -.1404 -.1368 -.1192 -.0796 -.0814 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1379 -.0885 -.0768 -.1346 -.0868 -.0994 -.1032 -.0752

ALPHAO(3) = -2.171 BETAO (1) = -6.052

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1278 -.1447 -.1597 -.1615 -.1538 -.1531 -.1506 -.1577 -.0564 -.0454 -.1424 -.1235 -.1383 -.1676 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1429 -.0967 -.1669 -.1314 -.1344 -.1410 -.1424 -.1098

ALPHAO(3) = -2.155 BETAO (2) = -1.900

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO !.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1207 -.1358 -.1397 -.1414 -.1439 -.1439 -.1363 -.1358 -.0813 -.0721 -.1331 -.1191 -.0763 -.1463 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1357 -.0763 -.1184 -.1246 -.1201 -.1243 -.1317 -.1029

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC38)

ALPHAO(3) = -2.141 BETAO (3) = 2.289

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1143	-.1318	-.1337	-.1235	-.1383	-.1393	-.1284	-.1221	-.0977	-.1012	-.1282	-.1145	-.0812	-.0809	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1318	-.0837	-.0794	-.1249	-.1110	-.1194	-.1243	-.0977

ALPHAO(3) = -2.131 BETAO (4) = 6.395

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1184	-.1387	-.1496	-.1370	-.1440	-.1447	-.1349	-.1377	-.1150	-.1473	-.1388	-.1216	-.0654	-.0672	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1450	-.0813	-.0739	-.1268	-.0921	-.1019	-.1082	-.0780

ALPHAO(4) = -.107 BETAO (1) = -6.062

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1299	-.1448	-.1597	-.1622	-.1589	-.1566	-.1530	-.1590	-.0834	-.0495	-.1449	-.1285	-.1258	-.1410	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1463	-.0961	-.1435	-.1268	-.1405	-.1545	-.1489	-.1127

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC38)

ALPHAO(4) = -.104 BETAO (2) = -4.014

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1268	-.1384	-.1538	-.1559	-.1538	-.1538	-.1501	-.1547	-.0835	-.0651	-.1434	-.1226	-.1123	-.1587	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1421	-.0770	-.1495	-.1264	-.1415	-.1563	-.1531	-.1162							

ALPHAO(4) = -.095 BETAO (3) = .177

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1164	-.1337	-.1365	-.1302	-.1411	-.1411	-.1355	-.1280	-.1017	-.0968	-.1309	-.1158	-.0804	-.1069	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1321	-.0871	-.0903	-.1213	-.1207	-.1239	-.1313	-.0989							

ALPHAO(4) = -.081 BETAO (4) = 4.323

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1189	-.1368	-.1432	-.1302	-.1442	-.1453	-.1302	-.1326	-.1128	-.1309	-.1358	-.1210	-.0734	-.0727	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1415	-.0862	-.0795	-.1217	-.1021	-.1049	-.1137	-.0938							

ARC97-019 IA81 (VAPIALLHL SEALED) MISC. ORIFICES (RETC38)

ALPHAO(4) = -.076 BETAO (5) = 6.389

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000 97.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1214 -.1411 -.1513 -.1386 -.1492 -.1499 -.1369 -.1390 -.1262 -.1493 -.1408 -.1260 -.0611 -.0597 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1515 -.0781 -.0700 -.1212 -.0957 -.0982 -.1080 -.0791

ALPHAO(5) = 1.937 BETAO (1) = -6.052

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1281 -.1443 -.1583 -.1594 -.1573 -.1569 -.1519 -.1572 -.0742 -.0586 -.1434 -.1244 -.1085 -.1375 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1435 -.0827 -.1379 -.1213 -.1418 -.1524 -.1467 -.1077

ALPHAO(5) = 1.942 BETAO (2) = -1.906

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1202 -.1378 -.1403 -.1396 -.1466 -.1466 -.1387 -.1355 -.1014 -.0879 -.1348 -.1197 -.0613 -.1232 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1378 -.0737 -.1070 -.1154 -.1311 -.1476 -.1458 -.1083

ARC97-019 1A81 LVAR'ALLHL SEALED) MISC. ORIFICES (RETC38)

ALPHAO(5) = 1.953 BETAO (3) = 2.279

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1140	-.1313	-.1281	-.1309	-.1418	-.1422	-.1288	-.1291	-.1178	-.1121	-.1313	-.1144	-.0759	-.0964	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1314	-.0805	-.0840	-.1166	-.1181	-.1286	-.1328	-.0963

ALPHAO(5) = 1.968 BETAO (4) = 6.390

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1229	-.1440	-.1506	-.1398	-.1514	-.1521	-.1357	-.1392	-.1276	-.1431	-.1417	-.1255	-.0597	-.0484	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1481	-.0728	-.0597	-.1186	-.0914	-.0949	-.1047	-.0784

ALPHAO(6) = 3.403 BETAO (1) = -6.044

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1272	-.1441	-.1546	-.1535	-.1578	-.1581	-.1457	-.1478	-.0863	-.0872	-.1422	-.1257	-.0861	-.1528	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1454	-.0639	-.1465	-.1171	-.1333	-.1448	-.1393	-.1025

ARC97-019 IAB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC38)

ALPHAO(6) = 3.401 BETAO (2) = -4.060

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000196	.0000197	.0000198	.0000199	.0000200	.0000201	.0000202	.0000203	.0000204	.0000
	.000	-.1238	-.1410	-.1508	-.1480	-.1536	-.1540	-.1425	-.1421	-.0961	-.0799	-.1400	-.1249	-.0772	-.1443	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1443	-.0517	-.1471	-.1156	-.1331	-.1486	-.1447	-.1057							

ALPHAO(6) = 3.409 BETAO (3) = .180

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000196	.0000197	.0000198	.0000199	.0000200	.0000201	.0000202	.0000203	.0000204	.0000
	.000	-.1194	-.1373	-.1373	-.1345	-.1461	-.1468	-.1369	-.1340	-.1177	-.1081	-.1362	-.1201	-.0751	-.1307	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1374	-.0801	-.1077	-.1099	-.1275	-.1430	-.1416	-.1015							

ALPHAO(6) = 3.415 BETAO (4) = 3.721

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000196	.0000197	.0000198	.0000199	.0000200	.0000201	.0000202	.0000203	.0000204	.0000
	.000	-.1190	-.1394	-.1397	-.1366	-.1503	-.1510	-.1344	-.1362	-.1262	-.1266	-.1380	-.1215	-.0715	-.0747	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1395	-.0832	-.0829	-.1132	-.1029	-.1092	-.1194	-.0860							

ARC97-019 1AB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC38)

ALPHAO(6) = 3.418 BETAO (5) = 6.394

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000186.0000187.0000188.0000189.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1223 -.1445 -.1480 -.1389 -.1526 -.1533 -.1394 -.1411 -.1319 -.1344 -.1426 -.1252 -.0653 -.0437 .0000

TAP NO 205.0000206.0000207.0000787.0000833.0000834.0000835.0000836.0000

.000 -.1462 -.0759 -.0678 -.1132 -.0890 -.0926 -.1021 -.0739

ALPHAO(7) = 6.122 BETAO (1) = -4.040

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1273 -.1473 -.1557 -.1526 -.1585 -.1585 -.1468 -.1486 -.1101 -.0931 -.1475 -.1293 -.0778 -.1558 .0000

TAP NO 205.0000206.0000207.0000787.0000833.0000834.0000835.0000836.0000

.000 -.1494 -.0605 -.1540 -.1150 -.1239 -.1442 -.1418 -.1081

ALPHAO(7) = 6.126 BETAO (2) = -1.890

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1241 -.1385 -.1482 -.1495 -.1508 -.1515 -.1424 -.1414 -.1173 -.1010 -.1407 -.1248 -.0585 -.1584 .0000

TAP NO 205.0000206.0000207.0000787.0000833.0000834.0000835.0000836.0000

.000 -.1446 -.0825 -.1333 -.1070 -.1273 -.1480 -.1491 -.1086

ARC87-018 IAB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC38)

ALPHA0(7) = 6.138 BETA0 (3) = .192

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1209	-.1395	-.1413	-.1394	-.1494	-.1497	-.1403	-.1371	-.1222	-.1108	-.1389	-.1217	-.0647	-.1323	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1401	-.0704	-.1093	-.1090	-.1221	-.1432	-.1435	-.0996							

ALPHA0(7) = 6.133 BETA0 (4) = 2.291

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1187	-.1381	-.1388	-.1317	-.1468	-.1475	-.1378	-.1350	-.1293	-.1212	-.1378	-.1199	-.0613	-.1175	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1369	-.0666	-.0955	-.1078	-.1.59	-.1293	-.1366	-.0969							

ALPHA0(7) = 6.136 BETA0 (5) = 3.707

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1195	-.1377	-.1356	-.1308	-.1520	-.1535	-.1360	-.1371	-.1283	-.1357	-.1305	-.1210	-.0602	-.0697	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1306	-.0715	-.0784	-.1107	-.0981	-.1085	-.1169	-.0822							

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC39) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPOBRK = .000

ALPHAO(1) = -6.293 BETAO (1) = .406

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000 03.0000204.0000

.000 -.1337 -.1729 -.1804 -.1667 -.1739 -.1762 -.1661 -.1782 -.1355 -.1822 -.1855 -.1890 -.1490 -.1392 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1936 -.1359 -.1461 -.1847 -.1772 -.1902 -.2020 -.1229

ALPHAO(2) = -4.229 BETAO (1) = -3.806

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1526 -.1852 -.1784 -.1833 -.1930 -.1930 -.1839 -.1836 - 1344 -.1227 -.2100 -.2035 -.1046 -.1011 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2100 -.0998 -.1111 -.1574 -.1805 -.1885 -.2089 -.1408

ALPHAO(2) = -4.210 BETAO (2) = .382

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1345 -.1717 -.1655 -.1646 -.1727 -.1717 -.1595 -.1687 -.1553 -.1934 -.1915 -.1866 -.1368 -.1254 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1886 -.1280 -.1358 -.1765 -.1537 -.1724 -.1811 -.1030

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC39)

ALPHAO(2) = -4.235 BETAO (3) = 3.933

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1340	-.1685	-.1711	-.1576	-.1704	-.1714	-.1479	-.1606	-.1398	-.1706	-.1869	-.1797	-.1187	-.1203	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1887	-.1177	-.1210	-.1721	-.1743	-.1778	-.1952	-.1309							

ALPHAO(3) = -.028 BETAO (1) = -5.881

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	- 1702	-.1997	-.1859	-.1615	-.2007	-.2007	-.1884	-.1761	-.1819	-.1368	-.2000	-.2050	-.0884	-.0971	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2060	-.1146	-.0949	-.1748	-.1925	-.2093	-.2260	-.1595							

ALPHAO(3) = -.024 BETAO (2) = -3.844

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1515	-.1791	-.1611	-.1695	-.1750	-.1763	-.1744	-.1695	-.1786	-.1530	-.2075	-.1837	-.1018	-.1112	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1957	-.0950	-.0740	-.1509	-.1674	-.1773	-.1998	-.1379							

ARC97-019 (A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC39)

ALPHAO(3) = -.022 BETAO (3) = .347

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1339 -.1544 -.1384 -.1477 -.1592 -.1592 -.1522 -.1474 -.1855 -.1835 -.1790 -.1609 -.1206 -.1051 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1699 -.1174 -.1196 -.1737 -.1403 -.1527 -.1620 -.0844

ALPHAO(3) = .001 BETAO (4) = 3.898

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1329 -.1701 -.1477 -.1374 -.1579 -.1598 -.1388 -.1375 -.1673 -.1530 -.1821 -.1798 -.1078 -.1084 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1776 -.1068 -.1139 -.1623 -.1683 -.1711 -.1782 -.1018

ALPHAO(3) = .014 BETAO (5) = 6.597

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1489 -.1981 -.1524 -.1543 -.1831 -.1869 -.1589 -.1572 -.1572 -.1847 -.2047 -.2028 -.1152 -.1201 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2009 -.1146 -.1230 -.1746 -.1367 -.1406 -.1489 -.0814

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC39)

ALPHAO(4) = 3.553 BETAO (1) = -3.877

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1498	-.1774	-.1550	-.1511	-.1777	-.1767	-.1658	-.1603	-.2171	-.1790	-.1864	-.1838	-.0929	-.0465	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1864	-.0971	-.0755	-.1421	-.2066	-.2015	-.2159	-.1625

ALPHAO(4) = 3.564 BETAO (2) = .361

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1265	-.1479	-.1253	-.1371	-.1486	-.1479	-.1425	-.1387	-.1819	-.1786	-.1570	-.1529	-.1054	-.0947	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1616	-.1037	-.1095	-.1405	-.1746	-.1574	-.1797	-.1284

ALPHAO(4) = 3.575 BETAO (3) = 3.908

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1577	-.1936	-.1737	-.1619	-.1942	-.1961	-.1796	-.1689	-.2022	-.1883	-.2087	-.2050	-.0900	-.1026	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.2034	-.0990	-.1090	-.1321	-.2036	-.1850	-.2077	-.1428

ARC97-018 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC39)

ALPHAO(5) = 8.255 BETAO (1) = .393

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1243	-.1508	-.1083	-.1233	-.1409	-.1383	-.1379	-.1254	-.1634	-.1692	-.1598	-.1537	-.1139	-.1074	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1501	-.1135	-.1004	-.1408	-.1791	-.1532	-.1861	-.1244

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC40) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-1B = .000 ELV-0B = .000
RUDDER = .000 SPDBRK = .000

ALPHAO(1) = -6.299 BETAO (1) = .072

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.000.	03.0000	204.0000
	.000	-.1277	-.1579	-.1439	-.1433	-.1550	-.1557	-.1397	-.1391	-.0934	-.1312	-.1542	-.1564	-.1213	-.1278	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1596	-.1259	-.1177	-.1590	-.1706	-.1862	-.1879	-.1482							

ALPHAO(2) = -4.312 BETAO (1) = -4.221

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1518	-.1711	-.1626	-.1596	-.1753	-.1757	-.1654	-.1552	-.1007	-.1077	-.1750	-.1714	-.0911	-.1516	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1750	-.1046	-.1467	-.1602	-.1726	-.1883	-.1880	-.1478							

ALPHAO(2) = .288 BETAO (2) = .038

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.000.
	.000	-.1352	-.1607	-.1440	-.1450	-.1584	-.1594	-.1466	-.1413	-.1086	-.1364	-.1611	-.1579	-.1095	-.1184	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1599	-.1197	-.1115	-.1583	-.1582	-.1719	-.1732	-.1336							

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC40)

ALPHAO(2) = -4.260 BETAO (3) = 3.604

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1351	-.1688	-.1573	-.1485	-.1648	-.1648	-.1507	-.1493	-.1404	-.1820	-.1705	-.1685	-.1024	-.1093	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1728	-.1050	-.1106	-.1511	-.1316	-.1473	-.1516	-.1140

ALPHAO(3) = -.077 BETAO (1) = -6.251

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1514	-.1733	-.1736	-.1671	-.1808	-.1811	-.1768	-.1679	-.1109	-.1026	-.1771	-.1705	-.0524	-.1725	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1787	-.0731	-.1429	-.1393	-.1747	-.1780	-.1809	-.1379

ALPHAO(3) = -.075 BETAO (2) = -4.195

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1523	-.1735	-.1748	-.1620	-.1816	-.1823	-.1755	-.1679	-.1217	-.1188	-.1761	-.1726	-.0524	-.1680	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1792	-.0876	-.1394	-.1480	-.1738	-.1764	-.1820	-.1372

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC40)

ALPHAO(3) = -.072 BETAO (3) = .017

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	000	-.1355	-.1532	-.1486	-.1329	-.1585	-.1598	-.1520	-.1424	-.1385	-.1441	-.1510	-.1507	-.1002	-.0933

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1550	-.1082	-.0979	-.1474	-.1552	-.1510	-.1654	-.1186

ALPHAO(3) = -.054 BETAO (4) = 3.568

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1361	-.1583	-.1394	-.1437	-.1616	-.1616	-.1473	-.1417	-.1532	-.1786	-.1621	-.1608	-.0964	-.1029

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	000	-.1624	-.1010	-.1069	-.1525	-.1319	-.1276	-.1394	-.0958

ALPHAO(3) = -.044 BETAO (5) = 6.274

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1366	-.1661	-.1533	-.1432	-.1645	-.1651	-.1471	-.1424	-.1659	-.1963	-.1652	-.1673	-.0869	-.0948

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1722	-.0892	-.0981	-.1451	-.1191	-.1194	-.1270	-.0824

ARC97-019 IAB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC40)

ALPHAO(4) = 3.465 BETAO (1) = -4.189

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1442	-.1642	-.1619	-.1491	-.1769	-.1779	-.1630	-.1670	-.1478	-.1313	-.1630	-.1598	-.0284	-.1700	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1670	-.0916	-.1315	-.1357	-.1721	-.1738	-.1774	-.1329

ALPHAO(4) = 3.478 BETAO (2) = .022

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1292	-.1465	-.1406	-.1360	-.1540	-.1540	-.1473	-.1417	-.1632	-.1420	-.1486	-.1444	-.0969	-.1335	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1500	-.1052	-.1217	-.1340	-.1654	-.1608	-.1736	-.1271

ALPHAO(4) = 3.487 BETAO (3) = 3.575

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1389	-.1585	-.1481	-.1474	-.1697	-.1697	-.1557	-.1507	-.1745	-.1861	-.1586	-.1577	-.1000	-.1010	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1623	-.1050	-.1066	-.1395	-.1382	-.1280	-.1464	-.1019

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC40)

ALPHAO(5) = 6.162 BETAO (1) = .040

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1259	-.1446	-.1335	-.1404	-.1479	-.1479	-.1438	-.1405	-.1725	-.1398	-.1457	-.1428	-.0972	-.1359	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.1511	-.1048	-.1197	-.1397	-.1657	-.1630	-.1735	-.1215

ARC97-019 IAB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC41) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.200 RN/FT = 2.500
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAO(1) = -6.332 BETAO (1) = -.112

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.000.	03.0000	204.0000
	.000	-.1309	-.1494	-.1407	-.1481	-.1538	-.1538	-.1467	-.1419	-.0874	-.1010	-.1467	-.1418	-.0921	-.0911	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1489	-.1037	-.0989	-.1472	-.1449	-.1651	-.1631	-.1310

ALPHAO(2) = -4.327 BETAO (1) = -4.351

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1397	-.1552	-.1673	-.1680	-.1669	-.1668	-.1562	-.1626	-.0715	-.0780	-.1565	-.1484	-.1186	-.2228	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1586	-.0965	-.1936	-.1526	-.1537	-.1621	-.1648	-.1331

ALPHAO(2) = -4.302 BETAO (2) = -.140

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1321	-.1493	-.1426	-.1473	-.1544	-.1551	-.1477	-.1416	-.1011	-.1069	-.1473	-.1431	-.0860	-.0905	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1505	-.1057	-.1101	-.1465	-.1400	-.1505	-.1542	-.1265

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC41)

ALPHA0(2) = -4.281 BETA0 (3) = 3.415

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1218	-.1504	-.1420	-.1373	-.1501	-.1508	-.1391	-.1364	-.1228	-.1473	-.1493	-.1474	-.0914	-.0972	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1562	-.0948	-.1019	-.1414	-.1229	-.1381	-.1438	-.1115

ALPHA0(3) = -.145 BETA0 (1) = -6.442

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1457	-.1606	-.1758	-.1727	-.1771	-.1775	-.1593	-.1675	-.0789	-.0659	-.1658	-.1513	-.0993	-.1921	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1622	-.0970	-.2234	-.1446	-.1646	-.1686	-.1683	-.1376

ALPHA0(3) = -.137 BETA0 (2) = -4.372

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1408	-.1569	-.1613	-.1576	-.1687	-.1690	-.1609	-.1541	-.0900	-.0870	-.1572	-.1474	-.0465	-.1972	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1569	-.0891	-.1664	-.1394	-.1608	-.1655	-.1686	-.1319

ARC97-019 1A81 LVAP(ALLML SEALED) MISC. ORIFICES (RETC41)

ALPHA0(3) = -.130 BETA0 (3) = -.176

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1301	-.1465	-.1452	-.1405	-.1529	-.1536	-.1475	-.1380	-.1217	-.1210	-.1434	-.1400	-.0811	-.0926	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1495	-.1007	-.1085	-.1371	-.1400	-.1370	-.1484	-.1135							

ALPHA0(3) = -.117 BETA0 (4) = 3.384

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1275	-.1470	-.1309	-.1410	-.1531	-.1538	-.1405	-.1399	-.1395	-.1531	-.1507	-.1427	-.0986	-.1010	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1491	-.1027	-.1037	-.1430	-.1247	-.1227	-.1331	-.0989							

ALPHA0(3) = -.112 BETA0 (5) = 6.096

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1327	-.1579	-.1428	-.1515	-.1613	-.1620	-.1451	-.1468	-.1471	-.1672	-.1549	-.1522	-.0791	-.0916	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1620	-.0872	-.0984	-.1414	-.1053	-.1012	-.1140	-.0776							

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC41)

ALPHA0(4) = 3.395 BETA0 (1) = -4.359

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1404	-.1583	-.1583	-.1539	-.1711	-.1718	-.1573	-.1518	-.1168	-.1015	-.1590	-.1493	-.0449	-.1740	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1601	-.0757	-.1513	-.1260	-.1582	-.1652	-.1635	-.1232

ALPHA0(4) = 3.403 BETA0 (2) = -.170

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1335	-.1413	-.1366	-.1346	-.1484	-.1491	-.1395	-.1334	-.1426	-.1310	-.1388	-.1335	-.0750	-.1447	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1416	-.1059	-.1[illegible]	-.1308	-.1503	-.1584	-.1607	-.1196

ALPHA0(4) = 3.411 BETA0 (3) = 3.387

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1292	-.1487	-.1373	-.1433	-.1612	-.1609	-.1458	-.1438	-.1567	-.1652	-.1482	-.1418	-.0946	-.1031	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1492	-.1038	-.1051	-.1287	-.1305	-.1325	-.1453	-.1043

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC41)

ALPHAO(5) = 6.079 BETAO (1) = -.145

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1199	-.1344	-.1384	-.1347	418	-.1425	-.1374	-.1323	-.1493	-.1262	-.1401	-.1284	-.0775	-.1743	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1400	-.0996	-.1264	-.1311	-.1475	-.1535	-.1589	-.1155

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC42) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.500 RN/FT = 2.500
ELV-IB = .000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAO(1) = -6.275 BETAO (1) = .222

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.000	03.0000	204.0000
	.000	-.1052	-.1208	-.1190	-.1237	-.1269	-.1269	-.1211	-.1178	-.0606	-.0635	-.1181	-.1034	-.0765	-.0725	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1201	-.0827	-.0980	-.1221	-.1112	-.1260	-.1267	-.1069

ALPHAO(2) = -4.238 BETAO (1) = -3.999

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1147	-.1230	-.1406	-.1442	-.1392	-.1388	-.1373	-.1409	-.0485	-.0402	-.1278	-.1089	-.1561	-.1667	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1260	-.1202	-.1721	-.1348	-.1209	-.1271	-.1310	-.1094

ALPHAO(2) = -4.215 BETAO (2) = .197

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1016	-.1152	-.1116	-.1174	-.1224	-.1232	-.1188	-.1148	-.0701	-.0661	-.1129	-.0998	-.0791	-.0711	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1150	-.0795	-.0950	-.1254	-.1115	-.1187	-.1249	-.1053

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC42)

ALPHAO(2) = -4.201 BETAO (3) = 3.750

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1069	-.1231	-.1220	-.1238	-.1310	-.1313	-.1248	-.1219	-.0882	-.1197	-.1241	-.1087	-.0728	-.0768	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1282	-.0833	-.0808	-.1275	-.0867	-.0999	-.1025	-.0773

ALPHAO(3) = -.088 BETAO (1) = -6.077

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1186	-.1311	-.1476	-.1498	-.1462	-.1459	-.1413	-.1457	-.0563	-.0429	-.1330	-.1138	-.1413	-.1572	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1330	-.1105	-.1637	-.1247	-.1343	-.1440	-.1376	-.1103

ALPHAO(3) = -.087 BETAO (2) = -4.025

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1157	-.1301	-.1383	-.1394	-.1427	-.1427	-.1340	-.1336	-.0800	-.0612	-.1300	-.1148	-.1340	-.1655	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1325	-.0971	-.1691	-.1264	-.1310	-.1428	-.1378	-.1110

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC42)

ALPHAO(3) = -.082 BETAO (3) = .174

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1041	-.1196	-.1167	-.1189	-.1264	-.1268	-.1227	-.1154	-.0973	-.0919	-.1169	-.1032	-.0830	-.1054	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1174	-.0899	-.0924	-.1200	-.1135	-.1164	-.1228	-.0930

ALPHAO(3) = -.071 BETAO (4) = 3.720

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1065	-.1219	-.1151	-.1212	-.1312	-.1312	-.1192	-.1199	-.1065	-.1243	-.1203	-.1056	-.0692	-.0717	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1223	-.0822	-.0778	-.1204	-.0936	-.0950	-.1047	-.0760

ALPHAO(3) = -.067 BETAO (5) = 6.427

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1088	-.1282	-.1257	-.1257	-.1353	-.1357	-.1223	-.1237	-.1186	-.1414	-.1259	-.1129	-.0563	-.0660	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1335	-.0714	-.0721	-.1187	-.0902	-.0894	-.1017	-.0740

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC42)

ALPHAO(4) = 3.400 BETAO (1) = -4.002

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1119	-.1294	-.1366	-.1323	-.1420	-.1423	-.1292	-.1274	-.0891	-.0750	-.1263	-.1115	-.0996	-.1425	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1292	-.0567	-.1523	-.1171	-.1192	-.1332	-.1292	-.0969

ALPHAO(4) = 3.413 BETAO (2) = .178

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1045	-.1210	-.1210	-.1188	-.1296	-.1303	-.1194	-.1150	-.1082	-.0980	-.1176	-.1046	-.0786	-.1529	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1194	-.0818	-.1107	-.1103	-.1159	-.1295	-.1292	-.0915

ALPHAO(4) = 3.420 BETAO (3) = 3.721

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1067	-.1246	-.1221	-.1235	-.1379	-.1390	-.1234	-.1234	-.1209	-.1209	-.1230	-.1083	-.0717	-.0808	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1238	-.0833	-.0844	-.1133	-.0940	-.1019	-.1109	-.0757

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC42)

ALPHAO(5: = 6.075 BETAO (1) = .198

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1041	-.1221	-.1235	-.1185	-.1307	-.1311	-.1209	-.1173	-.1144	-.1010	-.1195	-.1054	-.0700	-.1510	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1210	-.0761	-.1174	-.1100	-.1096	-.1268	-.1290	-.0880

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC43) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAO(1) = -6.289 BETAO (1) = .408

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.000. 03.0000204.0000

.000 -.1482 -.1715 -.1593 -.1629 -.1770 -.1767 -.1691 -.1631 -.1387 -.1741 -.1909 -.1763 -.1430 -.1410 .0000

TAP NO 205.0000206.0000207.0000787.0000933.000934.0000935.0000936.0000

.000 -.1806 -.1361 -.1463 -.1863 -.1770 -.1826 -.1966 -.1266

ALPHAO(2) = -4.227 BETAO (1) = -3.808

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1575 -.1781 -.1680 -.1566 -.1804 -.1810 -.1792 -.1697 -.1371 -.1161 -.1947 -.1811 -.1017 -.0980 .0000

TAP NO 205.0000206.0000207.0000787.0000933.000934.0000935.0000936.0000

.000 -.1897 -.0984 -.0938 -.1565 -.1794 -.1866 -.2062 -.1412

ALPHAO(2) = -4.204 BETAO (2) = .384

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000198.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1488 -.1690 -.1520 -.1582 -.1749 -.1772 -.1672 -.1586 -.1603 -.1867 -.1847 -.1706 -.1331 -.1275 .0000

TAP NO 205.0000206.0000207.0000787.0000933.000934.0000935.0000936.0000

.000 -.1788 -.1304 -.1377 -.1769 -.1580 -.1688 -.1812 -.1114

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC43)

ALPHAO(2) = -4.169 BETAO (3) = 3.933

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1438	-.1664	-.1438	-.1398	-.1650	-.1667	-.1573	-.1475	-.1534	-.1521	-.1755	-.1729	-.1205	-.1268	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1713	-.1222	-.1314	-.1662	-.1636	-.1653	-.1848	-.1248							

ALPHAO(3) = -2.122 BETAO (1) = .375

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1454	-.1666	-.1477	-.1516	-.1706	-.1715	-.1604	-.1518	-.1745	-.1871	-.1693	-.1660	-.1288	-.1160	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1758	-.1259	-.1278	-.1680	-.1511	-.1729	-.1775	-.0935							

ALPHAO(4) = -.030 BETAO (1) = -5.879

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1774	-.2020	-.1948	-.1670	-.2026	-.2033	-.2013	-.1882	-.1852	-.1404	-.2013	-.2001	-.0902	-.1261	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2080	-.1090	-.0882	-.1625	-.1952	-.2079	-.2170	-.1519							

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC43)

ALPHAO(4) = -.027 BETAO (2) = -3.845

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1513 -.1714 -.1468 -.1581 -.1662 -.1678 -.1648 -.1590 -.1753 -.1463 -.1724 -.1714 -.0981 -.0984 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1815 -.0951 -.0899 -.1508 -.1712 -.1799 -.1979 -.1334

ALPHAO(4) = -.030 BETAO (3) = -1.739

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1396 -.1606 -.1366 -.1499 -.1651 -.1645 -.1548 -.1492 -.1796 -.1639 -.1633 -.1606 -.1069 -.0886 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1694 -.1069 -.0919 -.1583 -.1577 -.1664 -.1803 -.1366

ALPHAO(4) = -.019 BETAO (4) = .351

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1349 -.1575 -.1374 -.1420 -.1581 -.1588 -.1495 -.1426 -.1879 -.1807 -.1618 -.1603 -.1229 -.1024 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1891 -.1216 -.1151 -.1622 -.1371 -.1484 -.1535 -.0788

ARC97-019 1AB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC+3)

ALPHAO(4) = -.003 BETAO (5) = 2.455

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1294	-.1568	-.1352	-.1159	-.1510	-.1504	-.1441	-.1302	-.1899	-.1620	-.1548	-.1603	-.1098	-.1030	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1636	-.1114	-.1182	-.1594	-.1609	-.1615	-.1712	-.0963						

ALPHAO(4) = .009 BETAO (6) = 3.897

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1413	-.1670	-.1538	-.1323	-.1641	-.1638	-.1618	-.1455	-.1829	-.1510	-.1660	-.1701	-.1076	-.1101	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1720	-.1118	-.1218	-.1559	-.1656	-.1685	-.1736	-.1002						

ALPHAO(4) = .019 BETAO (7) = 6.597

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1628	-.1857	-.1660	-.1519	-.1860	-.1876	-.1778	-.1635	-.1908	-.1836	-.1889	-.1868	-.1165	-.1207	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1907	-.1175	-.1334	-.1627	-.1327	-.1350	-.1421	-.0759						

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC43)

ALPHAO(5) = 2.072 BETAO (1) = .352

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1278	-.1488	-.1311	-.1343	-.1462	-.1459	-.1407	-.1329	-.1845	-.1771	-.1514	-.1528	-.1189	-.0909	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1606	-.1149	-.1126	-.1593	-.1459	-.1427	-.1514	-.0834							

ALPHAO(6) = 3.555 BETAO (1) = -3.814

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1467	-.1724	-.1528	-.1434	-.1669	-.1660	-.1642	-.1551	-.2161	-.1768	-.1713	-.1726	-.0880	-.0397	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1807	-.0980	-.0864	-.1329	-.2055	-.2014	-.2133	-.1584							

ALPHAO(8) = 3.560 BETAO (2) = .385

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1234	-.1426	-.1198	-.1327	-.1400	-.1416	-.1342	-.1307	-.1835	-.1700	-.1494	-.1484	-.1092	-.0941	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1603	-.1098	-.1111	-.1414	-.1653	-.1500	-.1717	-.1195							

ARC07-010 IAB1 LVAP(ALLML SEALED) MISC. ORIFICES (RETC43)

ALPHAO(6) = 3.578 BETAO (3) = 3.907

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1482	-.1758	-.1894	-.1437	-.1750	-.1753	-.1685	-.1575	-.2028	-.1762	-.1736	-.1754	-.0941	-.1018	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1812	-.1015	-.1166	-.1352	-.1985	-.1771	-.2013	-.1373

ALPHAO(7) = 6.256 BETAO (1) = .389

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1264	-.1523	-.1232	-.1194	-.1411	-.1386	-.1411	-.1291	-.1913	-.1684	-.1526	-.1545	-.1175	-.1108	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1583	-.1217	-.1111	-.1368	-.1728	-.1438	-.1770	-.1177

ARC87-019 IAB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC44) (12 OCT 74)

REFERENCE DATA

SREF = 2888.0000 SQ.FT. XMRP = 876.0000 IN. XT
LREF = 1287.0000 INCHES YMRP = .0000 IN. YT
BREF = 1287.0000 INCHES ZMRP = 480.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAO(1) = -8.289 BETAO (1) = .071

SECTION : 1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.000.	03.0000	204.0000
	.000	-.1330	-.1516	-.1425	-.1369	-.1535	-.1538	-.1433	-.1357	-.0841	-.1233	-.1492	-.1485	-.1088	-.1308	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	833.0000	934.0000	935.0000	936.0000								
	.000	-.1527	-.1157	-.1072	-.1520	-.1660	-.1821	-.1831	-.1395							

ALPHAO(2) = -4.259 BETAO (1) = -4.163

SECTION : 1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1420	-.1638	-.1612	-.1462	-.1674	-.1680	-.1583	-.1455	-.0838	-.1818	-.1998	-.1590	-.0951	-.1550	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	833.0000	934.0000	935.0000	936.0000								
	.000	-.1632	-.0828	-.1377	-.1530	-.1852	-.1850	-.1830	-.1366							

ALPHAO(2) = -4.231 BETAO (2) = .037

SECTION : 1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1381	-.1570	-.1531	-.1372	-.1606	-.1613	-.1536	-.1410	-.0895	-.1300	-.1536	-.1523	-.1032	-.1173	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	833.0000	934.0000	935.0000	936.0000								
	.000	-.1572	-.1134	-.1048	-.1486	-.1524	-.1648	-.1887	-.1252							

ARC97-019 TAB1 LVAP(ALUM SEALED) MISC. ORIFICES (RETC44)

ALPHA0(2) = -4.250 BETA0 (3) = 3.599

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1394	-.1590	-.1520	-.1388	-.1609	-.1619	-.1443	-.1420	-.1331	-.1741	-.1597	-.1613	-.0999	-.1120	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1662	-.1041	-.1172	-.1489	-.1320	-.1466	-.1534	-.1174							

ALPHA0(3) = -2.161 BETA0 (1) = .037

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1385	-.1567	-.1547	-.1313	-.1625	-.1628	-.1562	-.1447	-.1182	-.1346	-.1532	-.1519	-.1032	-.0973	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1568	-.1134	-.1068	-.1448	-.1518	-.1642	-.1694	-.1149							

ALPHA0(4) = -.093 BETA0 (1) = -6.250

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1479	-.1722	-.1722	-.1619	-.1748	-.1748	-.1700	-.1609	-.1102	-.1011	-.1720	-.1683	-.0420	-.1950	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1748	-.0721	-.1275	-.1420	-.1722	-.1735	-.1786	-.1324							

ARC97-019 1A81 EVAP(ALLHL SEALED) MISC. ORIFICES (RETC44)

ALPHAO(4) = -.091 BETAO (2) = -4.198

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1521 -.1728 -.1754 -.1535 -.1793 -.1799 -.1752 -.1647 -.1206 -.1180 -.1722 -.1683 -.0310 -.1690 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1732 -.0956 -.1101 -.1467 -.1728 -.1715 -.1825 -.1246

ALPHAO(4) = -.090 BETAO (3) = -2.083

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1517 -.1715 -.1748 -.1585 -.1796 -.1800 -.1740 -.1642 -.1337 -.1331 -.1717 -.1651 -.0502 -.1302 .0000

TAP NO 205.0000206.0000207.0000787.0000933 [illegible] 0000935.0000936.0000

.000 -.1714 -.1090 -.1109 -.1381 - [illegible] -.1688 -.1174

ALPHAO(4) = -.077 BETAO (4) = .009

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1383 -.1561 -.1558 -.1360 -.1632 -.1636 -.1563 -.1481 -.1354 -.1436 -.1547 -.1509 -.0959 -.0812 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1558 -.1030 -.1089 -.1398 -.1571 -.1471 -.1633 -.1171

ARC97-019 1A01 LVAP(ALLML SEALED) MISC. ORIFICES (RETC44)

ALPHAO(4) = -.067 BETAO (5) = 2.124

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1343 -.1499 -.1395 -.1476 -.1660 -.1657 -.1493 -.1470 -.1454 -.1647 -.1536 -.1482 -.1065 -.1071 .0000

TAP NO 20 0206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1547 -.1120 -.1084 -.1415 -.1436 -.1407 -.1510 -.1116

ALPHAO(4) = -.059 BETAO (6) = 3.572

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1418 -.1625 -.1505 -.1495 -.1696 -.1715 -.1584 -.1538 -.1567 -.1842 -.1626 -.1603 -.0972 -.0939 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1658 -.1047 -.1021 -.1455 -.1285 -.1253 -.1346 -.0910

ALPHAO(4) = -.053 BETAO (7) = 6.276

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1405 -.1652 -.1607 -.1386 -.1678 -.1688 -.1511 -.1455 -.1661 -.1945 -.1618 -.1629 -.0871 -.0 0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1684 -.0916 -.1004 -.1415 -.1147 -.1134 -.1211 -.0772

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC44)

ALPHAO(5) = 1.987 BETAO (1) = .023

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1384	-.1848	-.1518	-.1418	-.1810	-.1819	-.1840	-.1475	-.1478	-.1481	-.1850	-.1810	-.0801	-.0940	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1565	-.0989	-.1191	-.1329	-.1551	-.1493	-.1842	-.1241

ALPHAO(6) = 3.466 BETAO (1) = -4.234

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1473	-.1718	-.1693	-.1560	-.1828	-.1813	-.1684	-.1619	-.1501	-.1338	-.1704	-.1678	-.0251	-.1867	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1750	-.0939	-.1277	-.1333	-.1773	-.1793	-.1861	-.1369

ALPHAO(6) = 3.479 BETAO (2) = .019

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1369	-.1535	-.1489	-.1463	-.1616	-.1628	-.1527	-.1478	-.1635	-.1455	-.1563	-.1496	-.0948	-.1183	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1587	-.1020	-.1330	-.1239	-.1626	-.1577	-.1713	-.1270

ARC97-019 IA81 LVAP(ALLML SEALED) MISC. ORIFICES (RETC44)

ALPHAO(6) = 3.485 BETAO (3) = 3.581

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1443	-.1678	-.1631	-.1517	-.1764	-.1773	-.1622	-.1573	-.1763	-.1883	-.1678	-.1632	-.1006	-.0924	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1677	-.1055	-.1071	-.1366	-.1333	-.1227	-.1411	-.0965						

ALPHAO(7) = 6.167 BETAO (1) = .048

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1359	-.1550	-.1560	-.1521	-.1599	-.1596	-.1538	-.1492	-.1747	-.1434	-.1617	-.1522	-.0880	-.1186	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1665	-.0955	-.1268	-.1332	-.1689	-.1667	-.1783	-.1239						

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC45) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.200 RN/FT = 2.500
ELV-IB = 8.000 ELV-OB = .000
RUDDER = .000 SPDBRK = .000

ALPHAO(1) = -6.332 BETAO (1) = -.120

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1266	-.1434	-.1420	-.1387	-.1467	-.1470	-.1381	-.1330	-.0835	-.0963	-.1401	-.1364	-.0873	-.1256	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1445	-.0994	-.1112	-.1457	-.1457	-.1624	-.1634	-.1290

ALPHAO(2) = -4.288 BETAO (1) = -4.351

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1466	-.1563	-.1764	-.1784	-.1714	-.1710	-.1657	-.1728	-.0690	-.0757	-.1597	-.1511	-.1017	-.2278	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1605	-.0916	-.1787	-.1491	-.1518	-.1652	-.1652	-.1287

ALPHAO(2) = -4.320 BETAO (2) = -.149

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1338	-.1506	-.1499	-.1466	-.1549	-.1560	-.1479	-.1408	-.1009	-.1066	-.1486	-.1439	-.0886	-.1247	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1517	-.1041	-.1186	-.1435	-.1391	-.1508	-.1545	-.1207

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC45)

ALPHAO(2) = -4.300 BETAO (3) = 3.413

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1271	-.1465	-.1452	-.1312	-.1485	-.1502	-.1361	-.1324	-.1212	-.1455	-.1452	-.1420	-.0923	-.1037	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.1518	-.0983	-.1098	-.1419	-.1274	-.1412	-.1475	-.1164							

ALPHAO(3) = -2.199 BETAO (1) = -.165

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1355	-.1539	-.1563	-.1439	-.1600	-.1606	-.1516	-.1428	-.1114	-.1125	-.1506	-.1429	-.0806	-.1035	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.1510	-.1022	-.1113	-.1385	-.1357	-.1428	-.1501	-.1100							

ALPHAO(4) = -.116 BETAO (1) = -6.442

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1507	-.1671	-.1825	-.1855	-.1812	-.1808	-.1671	-.1772	-.0779	-.0644	-.1654	-.1575	-.0879	-.1816	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.1661	-.0859	-.1772	-.1383	-.1641	-.1651	-.1664	-.1340							

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC45)

ALPHAO(4) = -.115 BETAO (2) = -4.378

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1505 -.1696 -.1729 -.1733 -.1776 -.1776 -.1666 -.1673 -.0900 -.0870 -.1653 -.1590 -.0598 -.1752 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1691 -.0826 -.1658 -.1377 -.1631 -.1748 -.1728 -.1327

ALPHAO(4) = -.112 BETAO (3) = -2.264

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1475 -.1655 -.1702 -.1662 -.1726 -.1729 -.1646 -.1622 -.1130 -.1089 -.1622 -.1567 -.0702 -.1658 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1658 -.0813 -.1264 -.1345 -.1526 -.1560 -.1626 -.1216

ALPHAO(4) = -.108 BETAO (4) = -.175

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1348 -.1529 -.1549 -.1442 -.1605 -.1619 -.1546 -.1465 -.1219 -.1223 -.1526 -.1440 -.0768 -.0980 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1520 -.0986 -.1074 -.1316 -.1424 -.1407 -.1514 -.1091

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC45)

ALPHAO(4) = -.100 BETAO (5) = 1.938

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1321 -.1468 -.1408 -.1458 -.1565 -.1568 -.1469 -.1439 -.1325 -.1355 -.1486 -.1421 -.0988 -.0924 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1512 -.1618 -.1031 -.1372 -.1324 -.1334 -.1454 -.1104

ALPHAO(4) = -.095 BETAO (6) = 3.383

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1355 -.1526 -.1445 -.1472 -.1616 -.1629 -.1478 -.1468 -.1397 -.1542 -.1525 -.1451 -.0968 -.0924 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1541 -.1045 -.1005 -.1389 -.1272 -.1285 -.1365 -.0992

ALPHAO(4) = -.089 BETAO (7) = 6.028

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1413 -.1843 -.1693 -.1463 -.1707 -.1717 -.1566 -.1525 -.1485 -.1670 -.1643 -.1587 -.0815 -.0835 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1718 -.0909 -.0925 -.1362 -.1041 -.1008 -.1124 -.0751

ARC97-019 IAB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC45)

ALPHAO(5) = 1.833 BETAO (1) = -.155

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1348 -.1532 -.1542 -.1435 -.1622 -.1635 -.1538 -.1481 -.1339 -.1302 -.1514 -.1445 -.0719 -.1133 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1522 -.0971 -.1058 -.1291 -.1500 -.1543 -.1607 -.1250

ALPHAO(6) = 3.402 BETAO (1) = -4.411

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1420 -.1657 -.1867 -.1610 -.1714 -.1724 -.1582 -.1555 -.1148 -.1000 -.1599 -.1569 -.0494 -.1771 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1680 -.0846 -.1506 -.1231 -.1624 -.1721 -.1704 -.1248

ALPHAO(8) = 3.403 BETAO (2) = -.163

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1273 -.1448 -.1458 -.1373 -.1528 -.1549 -.1470 -.1396 -.1403 -.1298 -.1460 -.1405 -.0659 -.1304 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1492 -.0975 -.1048 -.1198 -.1498 -.1583 -.1629 -.1178

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC45)

ALPHAO(6) = 3.408 BETAO (3) = 3.392

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1345	-.1545	-.1528	-.1485	-.1679	-.1699	-.1536	-.1519	-.1559	-.1644	-.1583	-.1482	-.0915	-.0938	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1566	-.0995	-.1062	-.1231	-.1313	-.1303	-.1453	-.1029

ALPHAO(7) = 6.072 BETAO (1) = -.153

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1314	-.1471	-.1478	-.1454	-.1548	-.1551	-.1471	-.1424	-.1498	-.1279	-.1478	-.1401	-.0628	-.1367	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1498	-.0920	-.1169	-.1221	-.1483	-.1576	-.1643	-.1153

ARC97-819 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC46) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1287.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.550 RN/FT = 2.500
ELV-1B = 10.000 ELV-0B = -4.000
RUDDER = .000 SPDBRK = .000

ALPHAO(1) = -6.268 BETAO (1) = .417

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000 03.0000204.0000

.000 -.1584 -.1797 -.1875 -.1721 -.1856 -.1856 -.1770 -.1697 -.1458 -.1839 -.1987 -.1813 -.1500 -.1428 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

000 -.1873 -.1444 -.1526 -.1897 -.1802 -.1861 -.2027 -.1305

ALPHAO(2) = -4.270 BETAO (1) = -3.851

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1638 -.1862 -.1742 -.1571 -.1855 -.1858 -.1843 -.1732 -.1408 -.1199 -.1899 -.1886 -.1084 -.0980 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1954 -.1038 -.1009 -.1615 -.1835 -.1887 -.2081 -.1434

ALPHAO(2) = -4.251 BETAO (2) = .391

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1540 -.1737 -.1578 -.1621 -.1824 -.1795 -.1713 -.1622 -.1619 -.1895 -.1811 -.1741 -.1352 -.1265 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1816 -.1326 -.1401 -.1782 -.1633 -.1736 -.1865 -.1114

ARC97-019 !AB! LVAPIALLML SEALED! MISC. ORIFICES (RETC46)

ALPHA0(2) = -4.215 BETA0 (3) = 3.923

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1464 -.1719 -.1480 -.1438 -.1700 -.1709 -.1613 -.1518 -.1557 -.1577 -.1775 -.1707 -.1227 -.1276 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1737 -.1257 -.1360 -.1702 -.1701 -.1675 -.1908 -.1298

ALPHA0(3) = -2.110 BETA0 (1) = .382

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1511 -.1742 -.1556 -.1591 -.1774 -.1784 -.1679 -.1589 -.1777 -.1939 -.1748 -.1726 -.1307 -.1143 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1824 -.1301 -.1333 -.1722 -.1570 -.1762 -.1839 -.0996

ALPHA0(4) = -.014 BETA0 (1) = -5.856

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1797 -.2056 -.1992 -.1832 -.2084 -.2068 -.2025 -.1915 -.1870 -.1455 -.2051 -.2023 -.0944 -.1281 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2081 -.2111 -.1102 -.1880 -.1962 -.2115 -.2198 -.1513

ARC87-010 (AB) LVAP(ALLHL SEALED) MISC. ORIFICES (RETC46)

ALPHAO(4) = -.012 BETAO (2) = -3.094

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1549	-.1778	-.1546	-.1628	-.1705	-.1702	-.1711	-.1841	-.1792	-.1503	-.1773	-.1773	-.1013	-.0836	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	833.0000	834.0000	835.0000	836.0000							
	.000	-.1863	-.1013	-.1122	-.1595	-.1750	-.1883	-.2020	-.1345						

ALPHAO(4) = -.017 BETAO (3) = -1.729

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1456	-.1672	-.1453	-.1504	-.1720	-.1888	-.1803	-.1951	-.1841	-.1709	-.1886	-.1866	-.1145	-.0941	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	833.0000	834.0000	835.0000	836.0000							
	.000	-.1756	-.1132	-.1871	-.1628	-.1846	-.1716	-.1840	-.1887						

ALPHAO(4) = -.000 BETAO (4) = .358

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1418	-.1850	-.1448	-.1427	-.1704	-.1723	-.1840	-.1524	-.1919	-.1871	-.1888	-.1860	-.1257	-.1100	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	833.0000	834.0000	835.0000	836.0000							
	.000	-.1775	-.1385	-.1257	-.1882	-.1424	-.1557	-.1662	-.0853						

ARC87-019 IABI LVAPIA LHL SEALED) MISC. ORIFICES (RETC46)

ALPHA0(41 = .002 BETA0 (81 = 2.458

SECTION (11MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1402 -.1674 -.1486 -.1247 -.1509 -.1595 -.1551 -.1404 -.1983 -.1720 -.1596 -.1894 -.1175 -.1105 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1718 -.1197 -.1258 -.1503 -.1672 -.1712 -.1763 -.0975

ALPHA0(41 = .017 BETA0 (81 = 3.885

SECTION (11MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1487 -.1746 -.1614 -.1409 -.1718 -.1712 -.1675 -.1526 -.1853 -.1577 -.1704 -.1754 -.1119 -.1103 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1788 -.1157 -.1262 -.1591 -.1675 -.1741 -.1782 -.1002

ALPHA0(41 = .028 BETA0 (71 = 6.518

SECTION (11MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1617 -.1919 -.1674 -.1500 -.1926 -.1907 -.1836 -.1683 -.1931 -.1880 -.1864 -.1925 -.1221 -.1237 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1947 -.1260 -.1373 -.1670 -.1383 -.1414 -.1452 -.0776

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC46)

ALPHAO(5) = 2.074 BETAO (1) = .362

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1334	-.1528	-.1356	-.1412	-.1541	-.1547	-.1503	-.1408	-.1902	-.1845	-.1595	-.1590	-.1188	-.0916	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1672	-.1188	-.1147	-.1635	-.1497	-.1481	-.1563	-.0862						

ALPHAO(6) = 3.563 BETAO (1) = -3.860

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1495	-.1759	-.1524	-.1527	-.1675	-.1703	-.1676	-.1600	-.2196	-.1787	-.1755	-.1743	-.0981	-.0284	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1826	-.0965	-.1034	-.1392	-.2066	-.2009	-.2160	-.1581						

ALPHAO(6) = 3.565 BETAO (2) = .374

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1253	-.1464	-.1250	-.1354	-.1470	-.1461	-.1423	-.1366	-.1897	-.1766	-.1569	-.1510	-.1127	-.0952	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.1640	-.1139	-.1162	-.1454	-.1688	-.1531	-.1732	-.1201						

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC46)

ALPHAO(6) = 3.578 BETAO (3) = 3.899

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1544	-.1808	-.1704	-.1481	-.1789	-.1796	-.1730	-.1619	-.2060	-.1797	-.1787	-.1799	-.0994	-.1067	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1853	-.1077	-.1229	-.1403	-.1981	-.1772	-.2031	-.1311

ALPHAO(7) = 6.314 BETAO (1) = .393

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1317	-.1610	-.1345	-.1267	-.1468	-.1462	-.1496	-.1357	-.2008	-.1731	-.1592	-.1617	-.1262	-.1135	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1689	-.1274	-.1167	-.1393	-.1712	-.1455	-.1762	-.1128

ARC97-019 IAB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC47) (12 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 2.000 RN/FT = 2.500
ELV-IB = 10.000 ELV-OB = -4.000
RUDDER = .000 SPDBRK = .000

ALPHAO(1) = -6.283 BETAO (1) = .072

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.000. 03.0000204.0000

.000 -.1389 -.1560 -.1477 -.1421 -.1588 -.1585 -.1475 -.1379 -.0878 -.1277 -.1523 -.1539 -.1173 -.1278 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1571 -.1233 -.1255 -.1568 -.1686 -.1835 -.1850 -.1414

ALPHAO(2) = -4.315 BETAO (1) = -4.217

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.000020C.0000201.0000202.0000203.0000204.0000

.000 -.1448 -.1673 -.1663 -.1502 -.1717 -.1720 -.1647 -.1500 -.0979 -.1062 -.1650 -.1636 -.0980 -.1534 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1672 -.0954 -.1356 -.1592 -.1672 -.1843 -.1843 -.1387

ALPHAO(2) = -4.282 BETAO (2) = .044

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1435 -.1616 -.1571 -.1435 -.1644 -.1651 -.1576 -.1467 -.1034 -.1342 -.1579 -.1579 -.1079 -.1153 .0000

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1624 -.1172 -.1294 -.1535 -.1539 -.1657 -.1711 -.1285

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC47)

ALPHAO(2) = -4.245 BETAO (3) = 3.589

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1411	-.1630	-.1525	-.1436	-.1649	-.1656	-.1481	-.1443	-.1359	-.1771	-.1610	-.1661	-.1038	-.1124	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1696	-.1063	-.1208	-.1514	-.1353	-.1445	-.1547	-.1213							

ALPHAO(3) = -2.148 BETAO (1) = .035

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1423	-.1618	-.1586	-.1372	-.1659	-.1678	-.1604	-.1498	-.1205	-.1382	-.1578	-.1568	-.1045	-.0952	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1600	-.1148	-.1283	-.1445	-.1540	-.1639	-.1712	-.1180							

ALPHAO(4) = -.077 BETAO (1) = -6.234

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1512	-.1751	-.1751	-.1649	-.1774	-.1780	-.1719	-.1626	-.1133	-.1327	-.1732	-.1706	-.0433	-.2114	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1767	-.0716	-.1174	-.1431	-.1732	-.1716	-.1779	-.1295							

ARC97-019 IA81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC47)

ALPHAO(4) = -.078 BETAO (2) = -4.257

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1569	-.1789	-.1824	-.1849	-.1853	-.1856	-.1809	-.1705	-.1257	-.1228	-.1776	-.1722	-.0254	-.1828	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1760	-.1022	-.1169	-.1457	-.1741	-.1694	-.1827	-.1241							

ALPHAO(4) = -.074 BETAO (3) = -2.080

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1556	-.1751	-.1779	-.1642	-.1827	-.1834	-.1777	-.1674	-.1322	-.1342	-.1745	-.1705	-.0480	-.1448	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1780	-.1098	-.1133	-.1399	-.1613	-.1600	-.1721	-.1223							

ALPHAO(4) = -.070 BETAO (4) = .011

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1418	-.1610	-.1597	-.1422	-.1681	-.1670	-.1608	-.1515	-.1322	-.1435	-.1593	-.1554	-.0950	-.0771	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1599	-.1040	-.1268	-.1386	-.1549	-.1486	-.1645	-.1183							

ARC97-019 IAB1 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC47)

ALPHAO(4) = -.060 BETAO (5) = 2.115

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1403	-.1560	-.1467	-.1550	-.1729	-.1729	-.1561	-.1538	-.1470	-.1673	-.1602	-.1536	-.1083	-.1038	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1609	-.1144	-.1179	-.1403	-.1478	-.1441	-.1553	-.1184							

ALPHAO(4) = -.050 BETAO (6) = 3.551

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1479	-.1674	-.1540	-.1566	-.1750	-.1760	-.1626	-.1584	-.1558	-.1835	-.1655	-.1641	-.1015	-.0925	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1699	-.1086	-.1044	-.1469	-.1330	-.1310	-.1396	-.0970							

ALPHAO(4) = -.026 BETAO (7) = 6.169

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1457	-.1703	-.1626	-.1467	-.1747	-.1754	-.1599	-.1545	-.1690	-.1995	-.1696	-.1696	-.0903	-.0916	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1741	-.0954	-.1044	-.1449	-.1181	-.1152	-.1239	-.0808							

ARC97-015 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC47)

ALPHAO(5) = 1.992 BETAO (1) = .010

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1413	-.1601	-.1544	-.1471	-.1659	-.1675	-.1581	-.1507	-.1439	-.1443	-.1591	-.1568	-.0881	-.1032	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1613	-.0974	-.1257	-.1309	-.1591	-.1511	-.1667	-.1252							

ALPHAO(6) = 3.472 BETAO (1) = -4.227

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1467	-.1719	-.1719	-.1563	-.1808	-.1812	-.1700	-.1635	-.1477	-.1268	-.1722	-.1699	-.0311	-.2037	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1770	-.0941	-.1249	-.1309	-.1753	-.1769	-.1849	-.1354							

ALPHAO(6) = 3.475 BETAO (2) = .017

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1399	-.1584	-.1527	-.1473	-.1652	-.1658	-.1577	-.1499	-.1615	-.1409	-.1586	-.1548	-.0909	-.1204	.0000
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.1619	-.0995	-.1256	-.1210	-.1642	-.1559	-.1721	-.1313							

ARC97-019 1A81 LVAP(ALLHL SEALED) MISC. ORIFICES (RETC47)

ALPHAO(6) = 3.480 BETAO (3) = 3.492

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1477	-.1703	-.1633	-.1585	-.1850	-.1853	-.1668	-.1633	-.1762	-.1926	-.1713	-.1677	-.1024	-.0918	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1722	-.1082	-.1131	-.1355	-.1396	-.1294	-.1489	-.1017

ALPHAO(7) = 6.220 BETAO (1) = .042

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1390	-.1588	-.1601	-.1537	-.1620	-.1623	-.1562	-.1497	-.1723	-.1404	-.1613	-.1555	-.0816	-.1173	.0000

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.1667	-.0938	-.1112	-.1271	-.1693	-.1636	-.1792	-.1253