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NASA-CR-167,358

RESULTS OF A TEST OF THE FULL-SCALE NASA ORBITER VERTICAL TAIL (MODEL 111-0) IN THE ARNOLD ENGINEERING DEVELOPMENT CENTER 16 FOOT PROPULSION WIND TUNNEL

(OS49)

SPACE SHUTTLE AEROTHERMODYNAMIC DATA REPORT

Data Management Services
HUNTSVILLE ELECTRONICS DIVISION CHRYSLER CORPORATION

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by

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Prepared under NASA Contract Number NAS9-16283

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Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS

Test Number:	AEDC PWT16T TF-556
NASA Series Number:	ØS-49
Model Number:	111-Ø
Test Dates:	January 28 to February 4, 1981
Occupancy Hours:	46.3

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RESULTS OF A TEST OF THE FULL-SCALE NASA ORBITER VERTICAL TAIL (MODEL 111-0) IN THE ARNOLD ENGINEERING DEVELOPMENT CENTER 16 FOOT PROPULSION WIND TUNNEL (OS49)

ABSTRACT

A full-scale model of the upper one-quarter portion of the NASA Orbiter vertical tail was tested during the period of January 28 through February 4, 1981, in the AEDC Propulsion Wind Tunnel (16T) at free-stream Mach numbers from 0.80 to 1.40. Model angle of sideslip was varied from -4 to 4 deg. at zero angle of attack. The speed brakes were deflected 55 deg. during test runs of the NASA Orbiter entry trajectory.

The primary objective of this test was to certify the thermal protection system (TPS) tiles covering the fin/rudder gap region of the NASA Orbiter vertical tail. This certification required that the TPS tiles survive, without damage, the expected air loads encountered during ascent and reentry of the first NASA Space Shuttle mission. Secondary objectives were to apply air loads to the TPS tiles, without damage, for a length of time equivalent to one hundred plus four Space Shuttle missions and to also obtain detailed pressure distributions over the vertical tail.

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NOMENCLATURE

BETA	Model angle of sideslip referenced to the tunnel centerline (positive leading edge left), deg.
IRIG	Inter-Range Instrumentation Group standard time code
LRSI	Low temperature refractory surface insulation
M	Free-stream Mach number
OML	Outer mold lines
POINT	Point number (a single record of test variables)
P^2B	Precision pressure balance transducers
PT	Free-stream total pressure, psfa
Q	Free-stream dynamic pressure, psf
RUN	Run number (a data subset containing variations of only one independent parameter)
SIP	Strain isolation pad that TPS tiles are bonded to
TPS	Thermal Protection System
TRAJECTORY	User designation of flight conditions simulated for either ascent (BOOST) or descent (ENTRY) of the NASA Orbiter Space Shuttle
X/C	Distance aft of the leading edge of the vertical tail divided by the vertical tail local chord
ZV/Z_V	Vertical distance above the bottom of the vertical tail, in.
ΔP	Uncertainty in P^2B pressure, psf
ΔCP	Uncertainty in pressure coefficient

TABULATED DATA NOMENCLATURE

Line 1

RN	Run number (a data subset containing variables of only one independent parameter)
PN	Point number (a single record of test variables)
PROJECT	AEDC project number
TEST	AEDC test number
DATE	Date on which the data were obtained
DAY:HR:MIN:SEC	Day of the year, hour, minute, and second the data were obtained
MODE	Data acquisition selection code
DELPI	Primary input deletion and selection code
PROD:DATE	Date the data were computed
WINDOFF	Wind-off RN/PN used to reduce the data
SET	Constant set that was used to reduce the data
CART	Test section in which the model was installed

Line 2

M	Free-stream Mach number
PT	Free-stream total pressure, psfa
P	Free-stream static pressure, psfa
Q	Free-stream dynamic pressure, psf
REX10-6	Free-stream unit Reynolds number, per ft
TT	Free-stream total temperature, ^{o}F
TTR	Free-stream total temperature, ^{o}R

Line 2 - Concluded

H	Pressure altitude, ft
PC	Plenum chamber pressure, psfa
DP	Selected differential pressure, psf
WA	Test section wall angle, deg.
TPR	Tunnel pressure ratio
SHX10+3	Specific humidity, lb/lb

Line 3

MODEL	User model identification number
TRAJECTORY	User designation of flight conditions simulated for either ascent (BOOST) or descent (ENTRY) of the NASA Orbiter Space Shuttle
ALPHA	Model angle of attack (positive nose up), deg.
BETA	Model angle of sideslip (positive leading edge left), deg.
SPEED BRAKE	Deflection angle between left and right speed brake, deg.

Line 4

X/C	Local distance aft of the leading edge of the vertical tail divided by the vertical tail local chord
ZV	Vertical distance above the bottom of the vertical tail, in.
ORIFICE	User identification number of pressure orifices located on the vertical tail
PRESSURE	Local static pressure for one particular orifice, psfa
COEFFICIENT	Pressure coefficient for one particular orifice, (PRESSURE-P)/Q

CONFIGURATIONS INVESTIGATED

The test article was a full-scale model of the upper one-quarter portion of the NASA Orbiter vertical tail. A photograph of the model installation is shown in Fig. 2a. The model was mounted on the AEDC ALCM strut and Polaris base frame with the base of the model one-half inch above the tunnel floor. The general arrangement of the model showing its primary dimensions is presented in Fig. 1b. Ninety-seven (97) static pressure orifices were connected to the Precision Pressure Balance (P^2B) system to measure the pressure distributions on the vertical tail. The static pressure orifices were distributed over the vertical tail as shown in Figs. 1c through 1f. Thirteen (13) Kulite® transducers used to measure fluctuating pressures were located in the TPS tiles as shown in Fig. 1g. Additional details of the orifice locations are presented in Table IV. Figure 1h gives a brief description of the orifice types presented in Table IV. The speed brakes were deflected 55 deg. (including the angle between inner surfaces) at zero angle of sideslip for all entry simulations of the NASA Orbiters.

The only areas of the model to use tiles were the right- and left-hand sides between $Z_V = 263.5$ and $Z_V = 297$, aft of the 60% chord line, excluding the cone area. Figures 1i and 1j show a number that is used to identify each tile.

Forty-three of the tiles, shaded in Figure 1i and 1j, are made of production refractory surface insulation (RSI) material and were applied to

the model per Drawing VT70-093909. The remaining tiles are constructed of foam and are bonded to the model without the use of a strain isolation pad (SIP).

INSTRUMENTATION

The vertical tail was instrumented with 97 static pressure orifices at various locations on the model and at various levels in the TPS tiles, as described in Table IV and Fig. 1h. Thirteen Kulite® miniature pressure transducers (Model No. XCQH-093-5), supplied by Rockwell International, were used to measure fluctuating pressures over the TPS tiles. The vertical tail also contained three single-axis, Endevco® accelerometers (Model 2225) used to monitor the torsional loads on the ALCM strut. The bending moment on the ALCM strut, which was monitored as a safety precaution against strut failure, used a single-component strain gage mounted at the base of the strut. During tunnel operation, the model was continually filmed by two movie cameras operating at 4 frames per second (fps) and two closed-circuit television cameras. As each nominal test condition was obtained, three high-speed cameras operating at 350 fps were actuated for short periods. One of each of these cameras (low speed, high speed, video tape) was located on each side of the model to monitor both sections of TPS tiles. One high-speed camera was located downstream of the model on the tunnel scavenging scoop. These films were all recorded with inter-range instrumentation group (IRIG) timing marks to enable time correlation of tunnel test conditions. Model angle of sideslip was measured using stereophotographic pictures taken from cameras mounted on the top wall of the tunnel.

TEST FACILITY DESCRIPTION

The AEDC Propulsion Wind Tunnel (16T) is a variable density, continuous-flow tunnel capable of being operated at Mach numbers from 0.2 to 1.5 and stagnation pressures from 120 to 4000 psfa. The maximum attainable Mach number can vary slightly depending upon the tunnel pressure ratio requirements with a particular test installation. The maximum stagnation pressure attainable is a function of Mach number and available electrical power. The tunnel stagnation temperature can be varied from about 80 to 160°F depending upon the cooling water temperature. The tunnel is equipped with a scavenging system which removes combustion products when testing with rocket motors or turbo-engines. The test section is 16 ft square by 40 ft long and enclosed by 60-deg inclined-hole perforated walls of six-percent porosity. The general arrangement of the test section and the test article location are shown in Fig. 1a. Additional information about the tunnel, its capabilities, and operating characteristics is presented in Ref. 1.

TEST PROCEDURES

Data were obtained by continually changing tunnel conditions through the required Mach number sweep and as each nominal test condition was approached, static and fluctuating pressure data were sampled. Mach number sweeps generally took between 15 and 20 minutes to complete. The fluctuating pressure data were recorded on multiplexed magnetic tape for 15 seconds for each test condition. At the end of each Mach number sweep, an extensive model inspection was conducted. A summary of nominal test conditions is presented in Table I and a test program run number summary is presented in Table II.

All steady-state measurements were sequentially recorded by the facility on-line computer system, which reduced the data to engineering units, further processed the data to obtain the required model parameters, tabulated the data to obtain the required model parameters, tabulated the data in the Tunnel 16T control room, recorded the data on magnetic tape, and transmitted the data to the AEDC central computer file. The data stored in the central computer file were generally available for plotting and analysis on the PWT Interactive Graphics System within 30 seconds after data acquisition. The immediate availability of the tabulated and plotted data permitted continual on-line monitoring of the test results.

REMARKS

A significant portion of the tunnel occupancy time was required for model inspections. After each test period, all TPS tiles and associated flight hardware were inspected to determine if there had been any type of tile damage. Inspection requirements before a test run consisted of three steps. First, measurements of the step height and gaps between tiles were made to document any shifts in the tile positions. Next, an alcohol evaporation inspection of the coated surfaces of each TPS tile was performed to visualize any cracks. If cracks were found, an individual tile crack map was drawn. Finally, detailed photographs were taken to show tile conditions before and after each test run.

During the first run of the STS-1 boost trajectory, the model sustained minor damage to some of the tile gap fillers as shown in Fig. 2i. The frayed fillers were trimmed and sprayed with Krylon® clear plastic to hold them in place during further testing. The tiles shifted positions noticeably after each run. There was no major damage incurred by any tile during the test.

DATA REDUCTION

All model static pressures were nondimensionalized using the free-stream dynamic pressure, Q. All fluctuating pressure data taken from the model Kulites® were to be analyzed by Rockwell International after the test. Stereophotographic pictures of the model were analyzed to compute any significant twist of the ALCM strut and the resultant angle of sideslip.

REFERENCES

1. Test Facilities Handbook (Eleventh Edition). "Propulsion Wind Tunnel Facility, Vol. 4." Arnold Engineering Development Center, June 1979.

2. Abnernethy, R. B. and Thompson, J. W., Jr. "Handbook - Uncertainty in Gas Turbine Measurements." AEDC-TR-73-5 (AD755356), February 1973.

3. Kingsland, R. B. "Pretest Information for Test OS-49 of the Full Scale Upper Rudder to Fin Tip Gap Model of the OV-102 Orbiter Vertical Tail in the AEDC/USAF 16T Transonic Wind Tunnel Model 111-0" Rockwell International SOD 80-0461, October 1980.

TABLE I

TEST CONDITIONS

NOMINAL DYNAMIC PRESSURES
(PSF)

TRAJECTORY	MACH NUMBER				
	0.80	0.90	1.10	1.25	1.40
ASCENT					
STS-1 LIMIT	555	608	635	640	655
DESIGN	603	660	754	714	664
ENTRY					
DESIGN	375	375	375	375	375
1.25 DESIGN	468	468	468	468	468
1.40 DESIGN	525	525	525	525	525

TABLE II. SUMMARY

TRAJECTORY	BETA	SPEED BRAKE	MACH NUMBER	RUN/POINT RANGE	REMARKS
STS-1 BOOST	-4.00	0.00	0.79	4.001/4.002	Q = 400PSF mark.
			0.80	4.003/4.005	
			0.90	4.006/4.008	
			1.10	4.009/4.011	
			1.25	4.012/4.014	
			1.40	4.015/4.017	
			0.87	4.018	Q = 400PSF mark.
DESIGN BOOST	-4.00	0.00	0.90	8.001/8.002	Q = 400PSF mark.
			0.90	8.010/8.012	
			1.10	8.013/8.015	
			1.25	8.016/8.018	
			0.82	8.019/8.020	Q = 400PSF mark.
STS-1 BOOST	-4.00	0.00	0.80	12.004	Q = 400PSF mark.
			0.80	12.005/12.006	
			0.90	12.007/12.008	
			1.10	12.009/12.010	
			1.25	12.011/12.012	
			1.40	12.013/12.014	
			0.90	12.017	Q = 400PSF mark.

TABLE II. (Continued)

TRAJECTORY	BETA	SPEED BRAKE	MACH NUMBER	RUN/PONT RANGE	REMARKS
ENTRY NOMINAL	0.00	55.00	0.80	15.004	Q = 250PSF mark.
			0.80	15.005/15.007	
			0.90	15.008/15.010	
			0.96	15.011/15.015	Sweep was terminated early.
ENTRY NOMINAL	0.00	55.00	0.78	17.001	Q = 250PSF mark.
			0.80	17.002/17.004	
			0.90	17.005/17.007	
			1.10	17.008/17.010	
			1.25	17.011/17.013	
			1.40	17.014/17.016	
			0.89	17.017	Q = 250PSF mark.
1.25 ENTRY NOMINAL	0.00	55.00	0.80	20.003	Q = 250PSF mark.
			0.80	20.004/20.006	
			0.86	20.007	
			0.90	20.008/20.011	
			1.10	20.012/20.014	
			1.25	20.015/20.016	
			1.40	20.017/20.018	
			0.80	20.019	Q = 250PSF mark.

TABLE II (Continued)

TRAJECTORY	BETA	SPEED BRAKE	MACH NUMBER	RUN/POINT RANGE	REMARKS
1.40 ENTRY NOMINAL	0.00	55.00	0.79	23.004	Q = 250PSF mark.
			0.80	23.005/23.007	
			0.90	23.008	
			0.93	23.009/23.010	
			1.10	23.011/23.013	
			1.25	23.014/23.016	
			1.40	23.017/23.019	
			0.83	23.020	Q = 250PSF mark.
STS-1 BOOST	-4.00	0.00	0.79	29.002/29.003	Q = 400PSF mark.
			0.80	30.001/30.012	
			0.90	31.001/31.013	
			1.10	32.001/32.016	
			0.85	33.001/33.002	Q = 400PSF mark.
STS-1 BOOST	0.00	0.00	0.80	37.001/37.002	Q = 400PSF mark.
			0.80	37.003/37.005	
			0.90	37.006/37.008	
			1.10	37.009/37.011	
			1.25	37.012/37.014	
			1.40	37.015/37.019	
			1.10	37.020/37.021	Q = 400PSF mark.

TABLE II. (Concluded)

TRAJECTORY	BETA	SPEED BRAKE	MACH NUMBER	RUN/POINT RANGE	REMARKS
STS-1 BOOST	+4.00	0.00	0.76	40.001/40.002	Q = 400PSF mark.
			0.80	41.001/41.010	
			0.90	42.001/42.016	
			1.10	43.001/43.013	
			1.25	44.001/44.012	
			1.40	45.001/45.009	
			1.00	46.001/46.002	Q = 400PSF mark.

Table III. Static Pressure Orifice Locations and Types

ORIFICE NUMBER	ORIFICE TYPE	ZV, in.	X/C	REMARKS
201	D	260.0	0.00	Orifices Located at the OML. (Left Hand Side)
202			0.03	
203			0.06	
204			0.15	
205			0.30	
206			0.52	
207			0.68	
208			0.83	
209	C		1.00	Base Pressure
210	D	268.0	0.00	
211			0.03	
212			0.06	
213			0.15	
214			0.30	
215			0.52	
216			0.68	
217			0.78	
218			0.90	
219	C		1.00	Base Pressure
220	D	278.5	0.00	
221			0.03	
222			0.06	
223			0.15	
224			0.30	
225			0.52	
226		290.0	0.00	
227			0.03	
228			0.06	
229			0.15	
230			0.30	
231			0.52	
232			0.68	
233			0.78	
234			0.90	
235	C		1.00	Base Pressure
236	D	300.0	0.00	
237			0.03	
238			0.06	
239			0.15	
240			0.30	
241			0.52	
242			0.68	
243			0.83	
244	C		1.00	Base Pressure

Table III. Continued

ORIFICE NUMBER	ORIFICE TYPE	ZV, in.	X/C	REMARKS
251	C	286.27	0.78	Orifices Located In Gap
252	C	285.01	0.90	Between Tiles (Left Hand Side)
253	E	288.84	0.68	
254	E	288.85	0.78	
255	E	287.54	0.90	
261	D	276.00	0.78	Orifices Located Inside
262			0.90	Left Hand Speed Brake
271			0.78	Orifices Located at the OML.
272			0.83	(Right Hand Side)
273			0.90	
274	C		1.00	Base Pressure
275	D	277.5	0.78	
276			0.83	
277			0.90	
278		280.00	0.70	
279			0.78	
280			0.83	
281			0.90	
282		282.00	0.68	
283			0.78	
284			0.83	
285			0.90	
286	C		1.00	Base Pressure

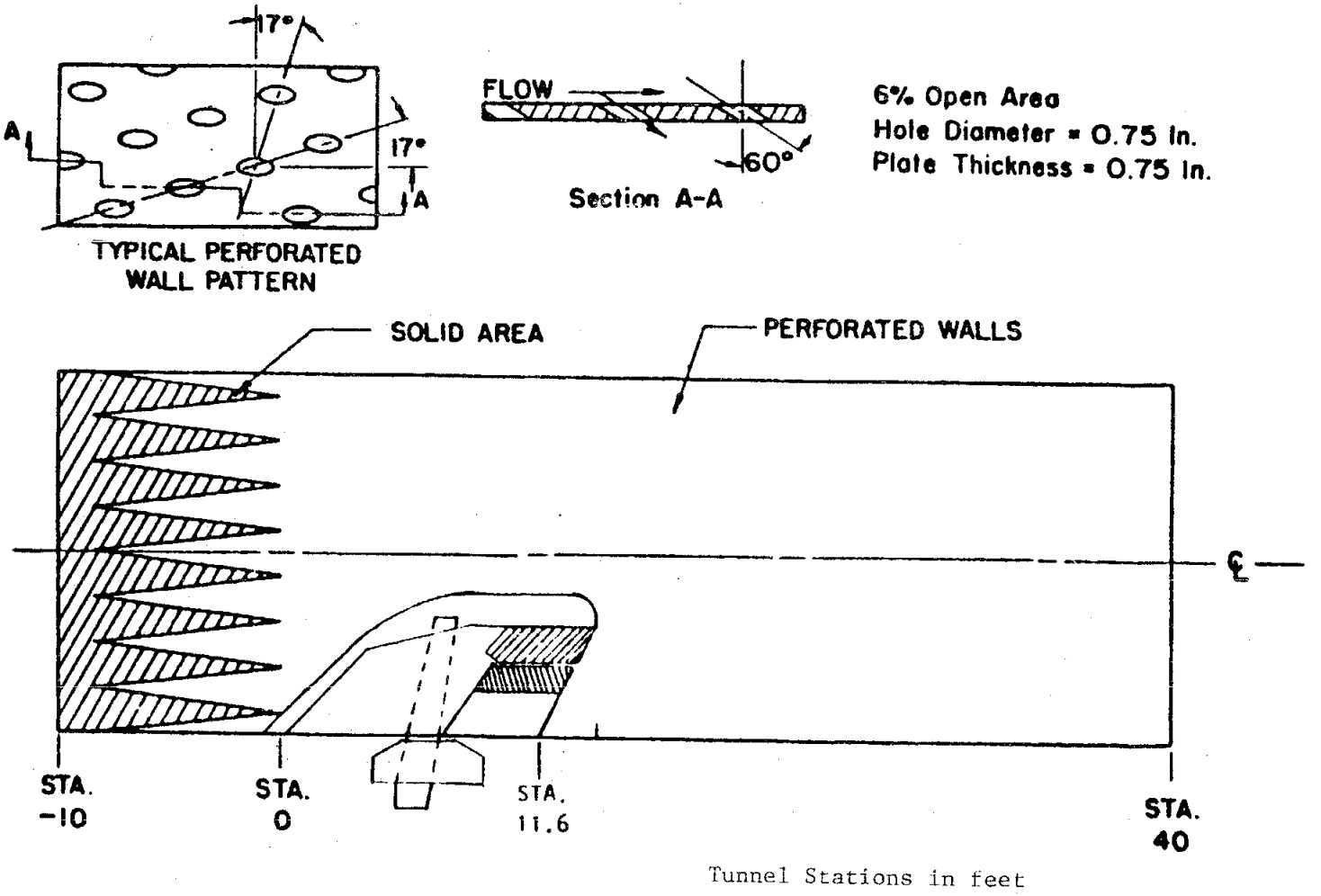
Table III. Concluded

ORIFICE NUMBER	ORIFICE TYPE	ZV, in.	X/C	REMARKS
291	B	275.45	0.15	Orifices Located Under Tiles. (Left Hand Side)
292	A		0.26	
293	B		0.77	
294	B	275.85	0.82	
295	A		0.83	
296	B		0.86	
297	B	275.90	0.95	
298	A		0.97	
299	B		0.98	
301	B	283.00	0.72	
302	A		0.74	
303	B		0.76	
304	B	281.00	0.90	
305	A		0.92	
306	B		0.94	
307	B	282.55	0.95	
308	A		0.97	
309	B		0.98	
310	B	287.65	0.61	
311	A		0.63	
312	B		0.65	
313	B	287.67	0.68	
314	A		0.70	
315	B		0.72	
316	B	287.00	0.89	
317	A		0.90	
318	B		0.91	
319	B	285.23	0.91	
320	A		0.92	
321	B		0.94	

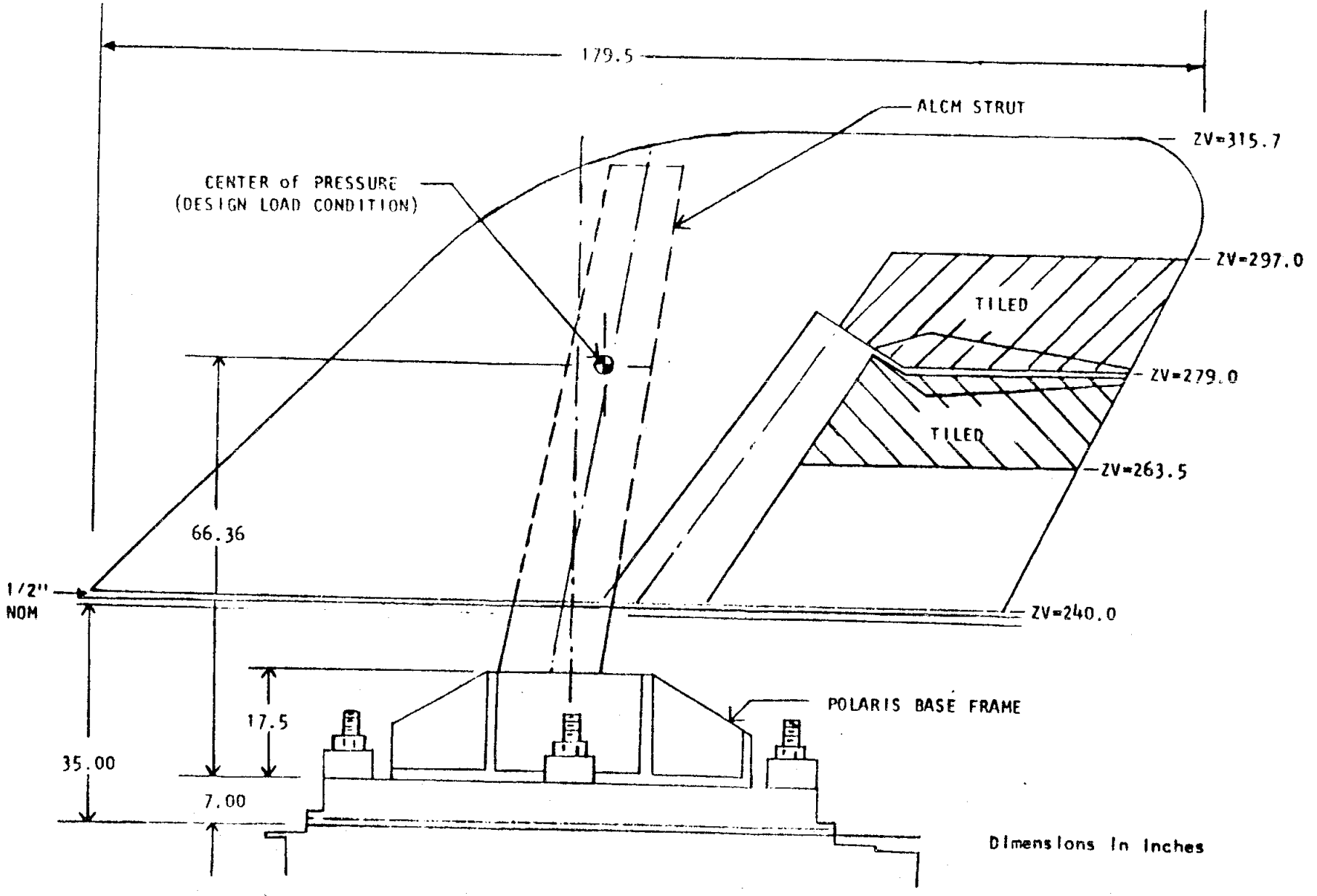
Table IV. Kulite® Pressure Orifice Locations

ORIFICE NUMBER	ORIFICE TYPE	ZV, in.	X/C	REMARKS
401	F*	273.00	0.70	Orfices Located at OML (Left Hand Side)
402			0.77	
403			0.85	
404		271.00	0.94	
405		278.5	0.70	
406			0.77	
407			0.85	
408			0.94	
409		275.00	1.00	
410		287.00	0.70	
411			0.77	
412			0.85	
413			0.94	

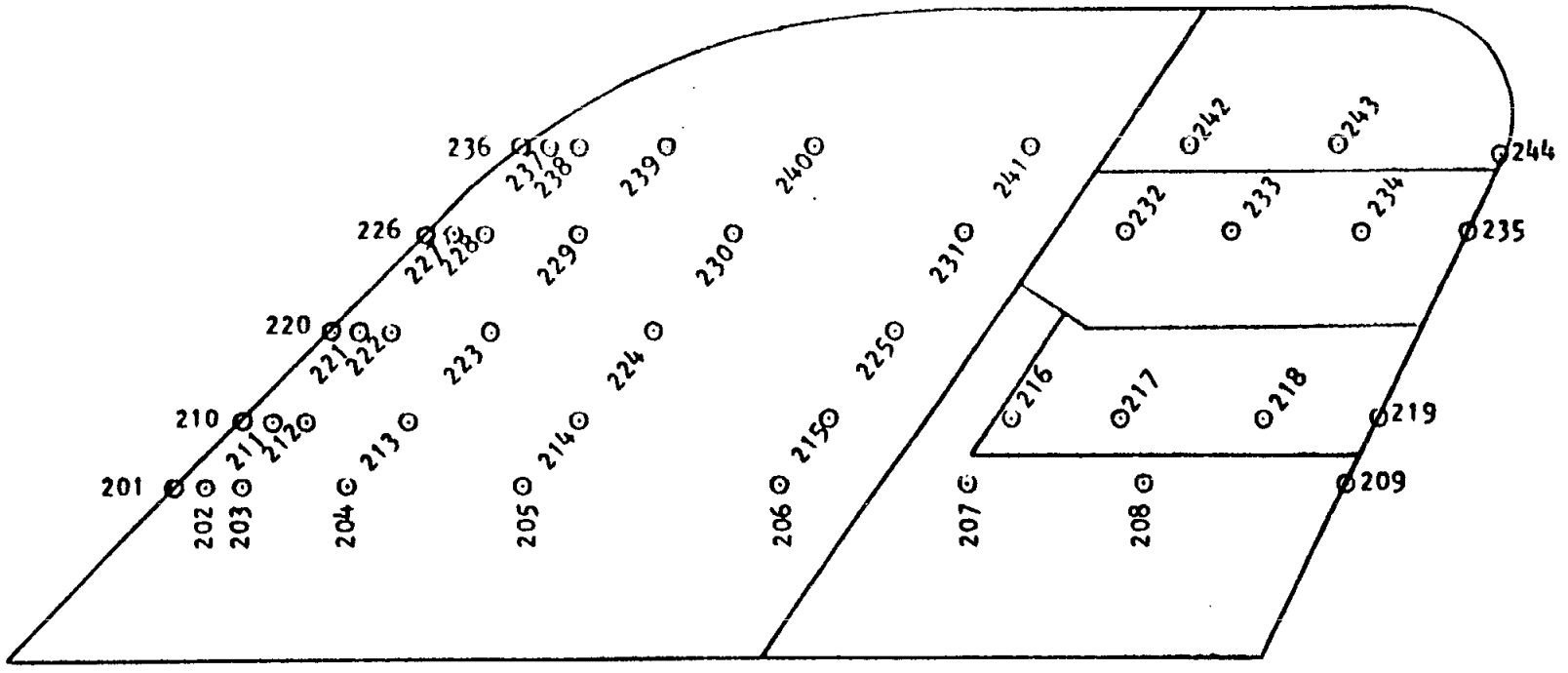
* Orifice Type F indicates a Kulite® Pressure Transducer



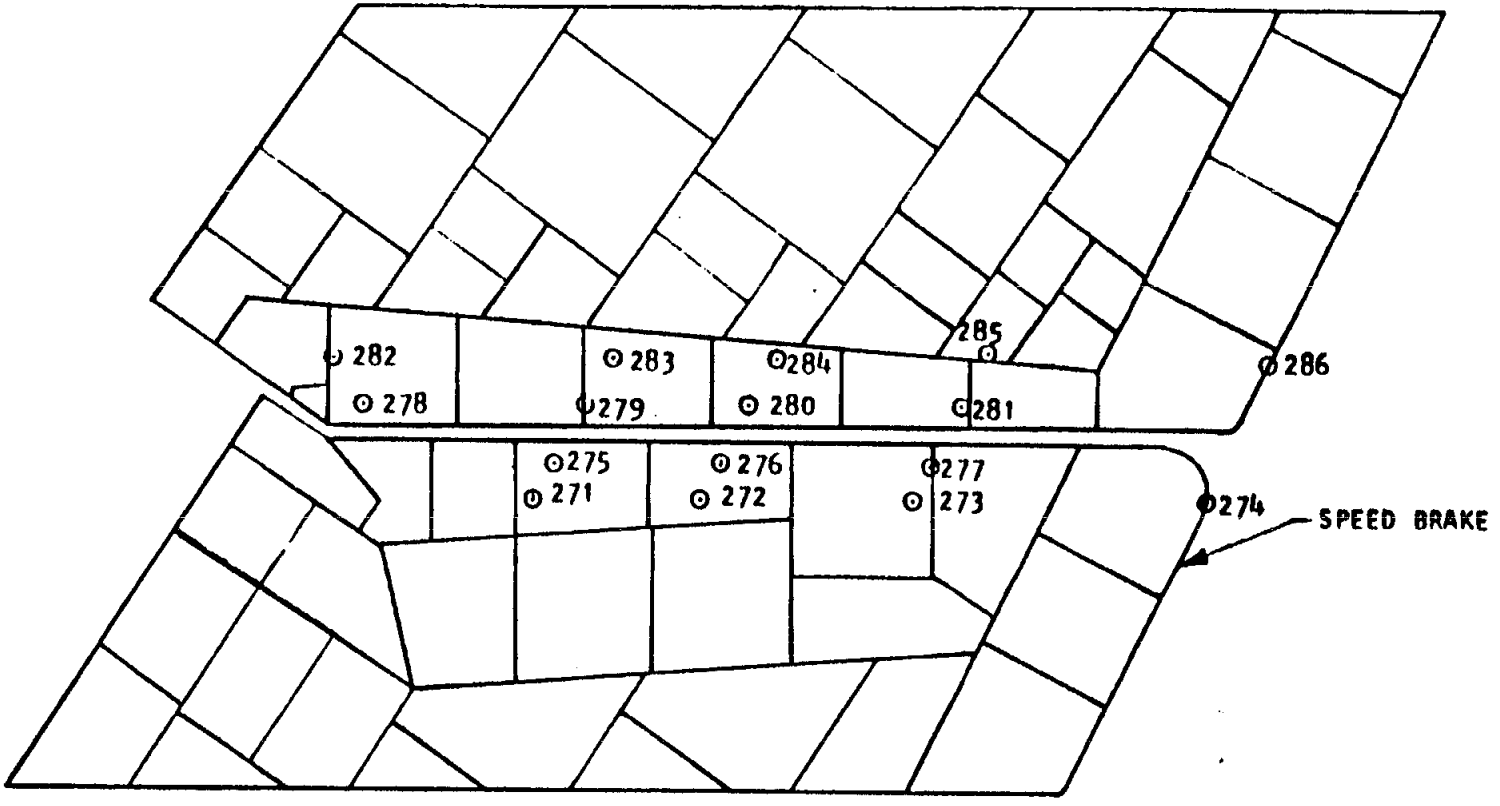
a. Test Article Location in Tunnel 16T
Figure 1. Model Figures



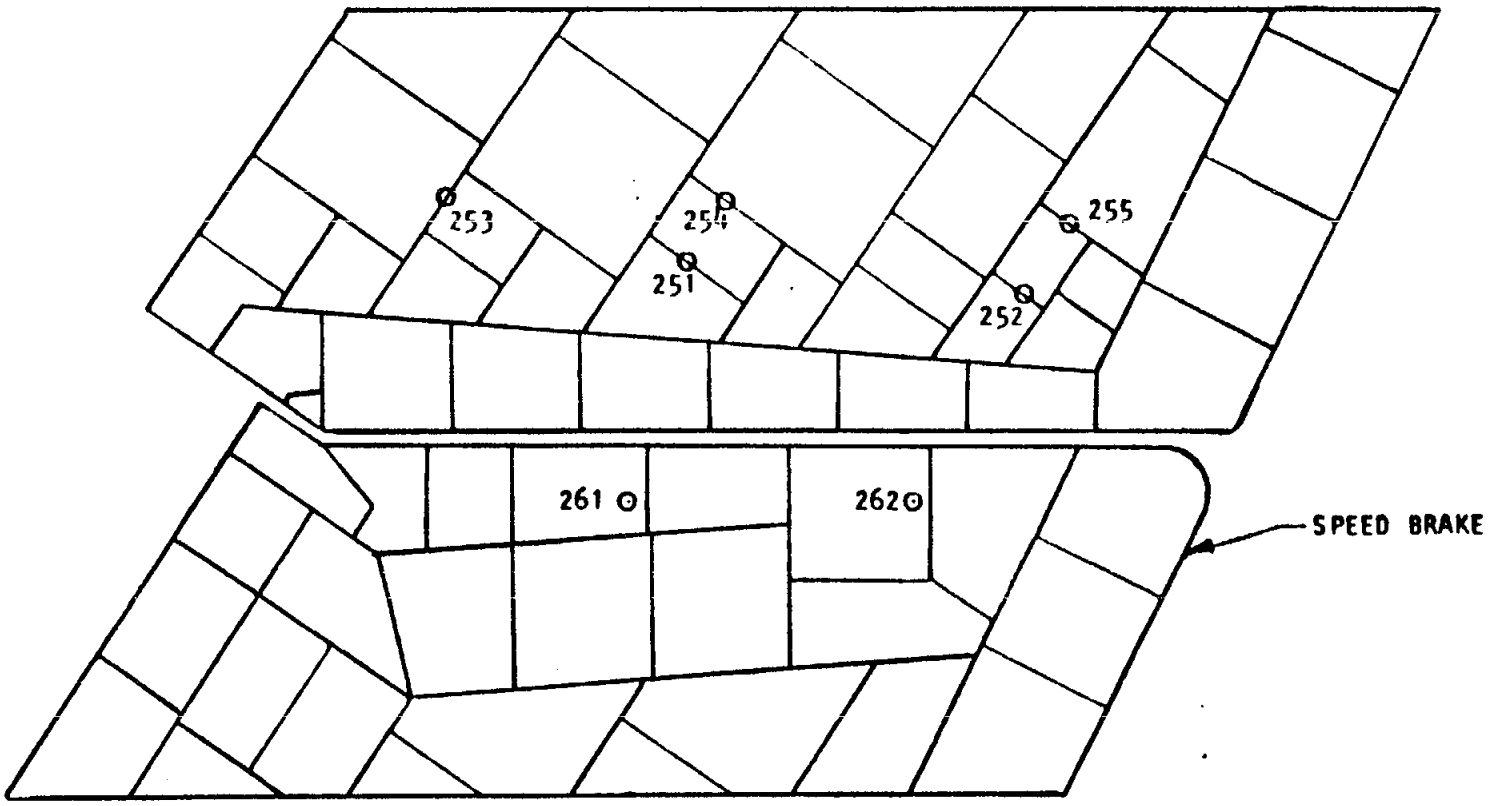
b. Details and Dimensions of the NASA Orbiter Vertical Tail
Figure 1. Continued



c. Static Pressure Orifice Locations on the OML (Left Hand Side)
Figure 1. Continued

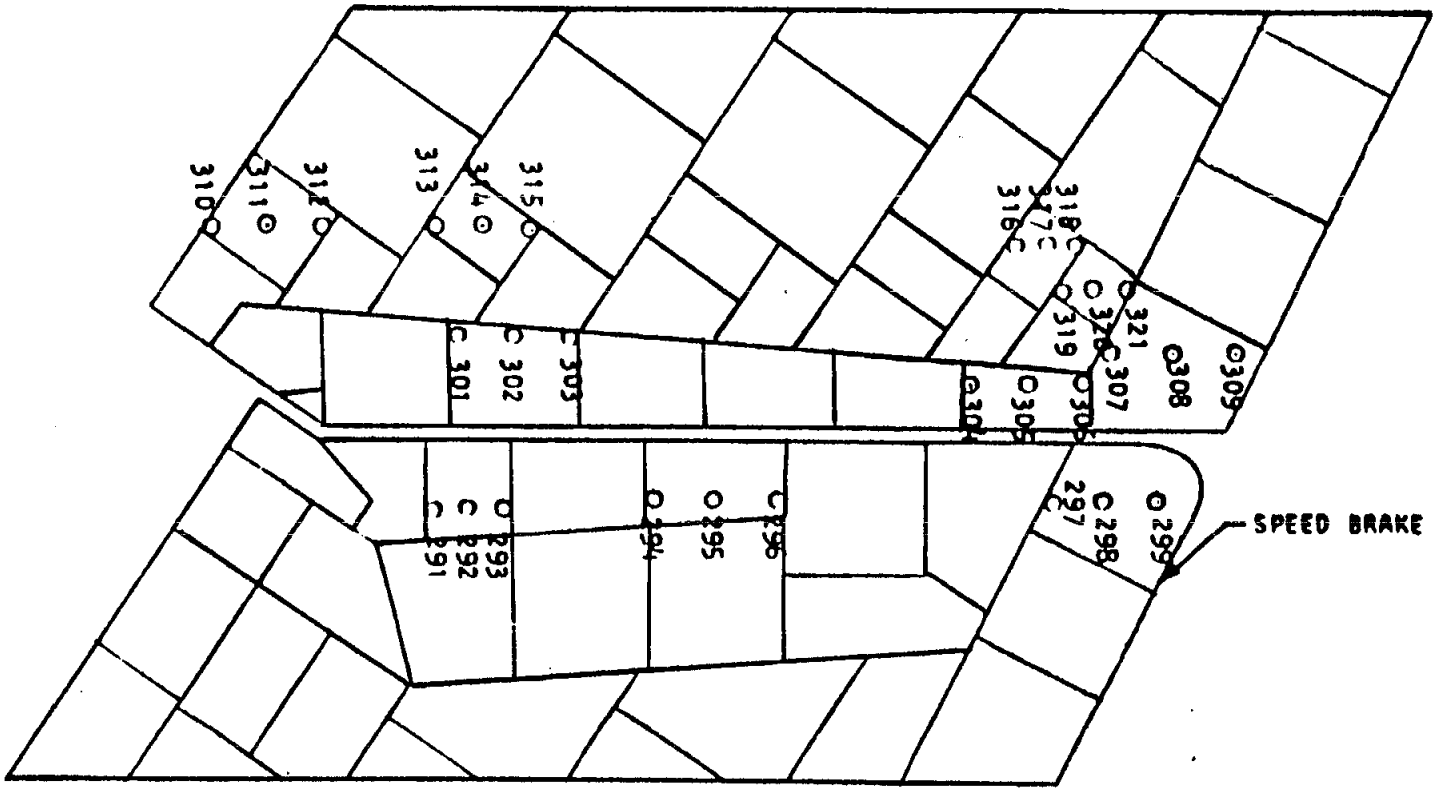


d. Static Pressure Orifice Locations on the OML (Right Hand Side)
Figure 1. Continued



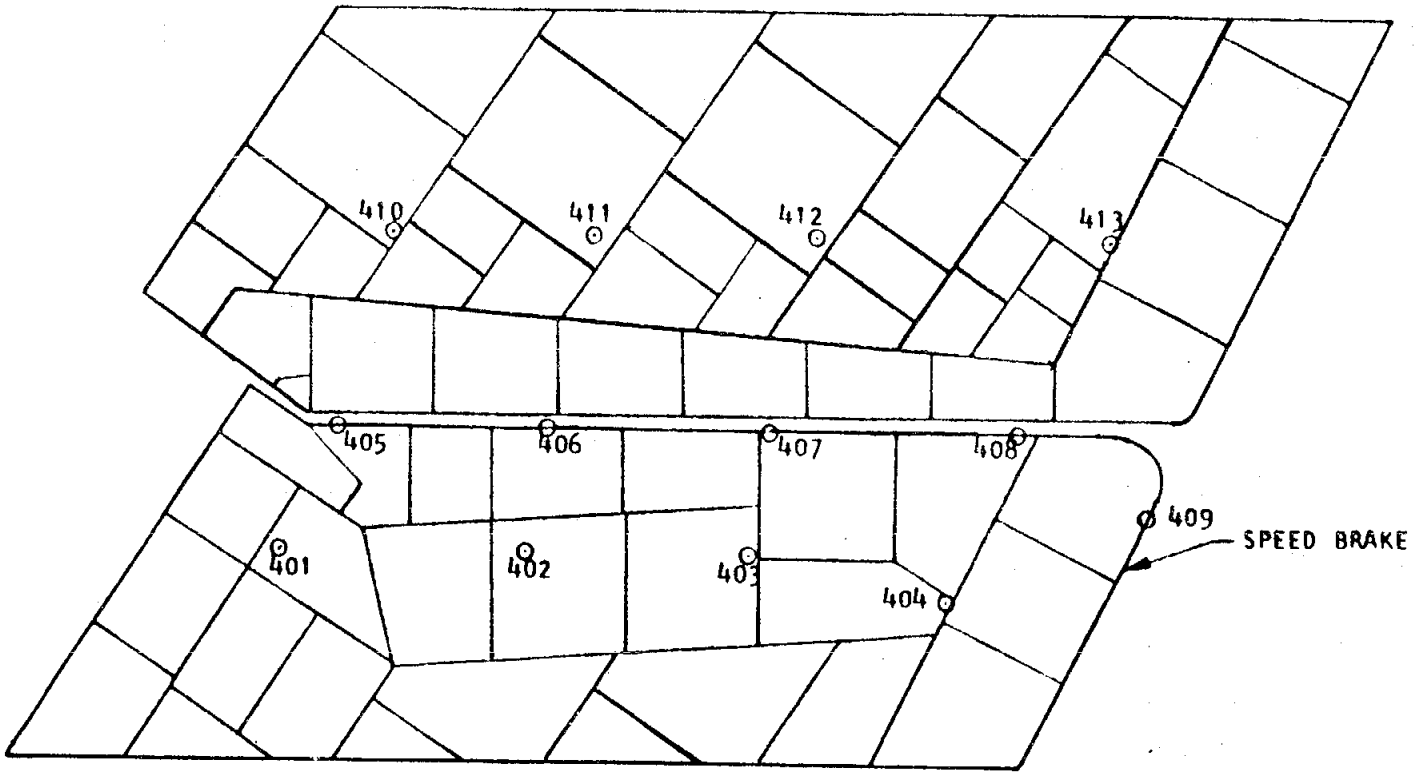
e. Static Pressure Orifice Locations in the Gaps between Tiles and Inside Speed Brake (Left Hand Side)

Figure 1. Continued

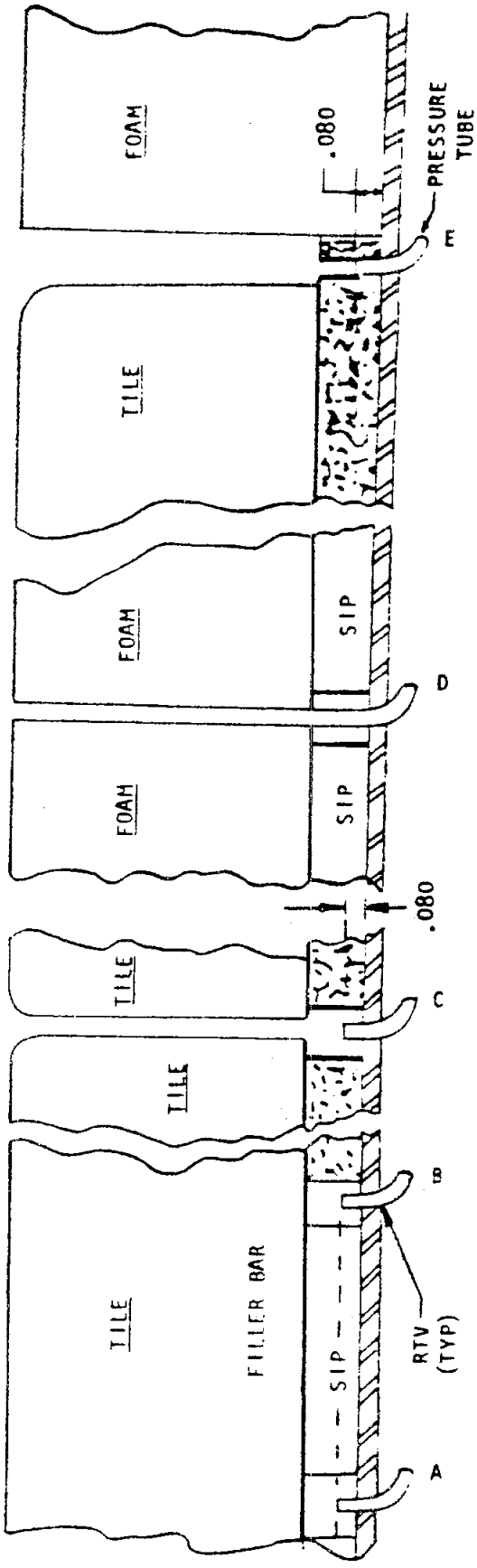


f. Static Pressure Orifice Locations Under TPS Tiles (Left Hand Side)

Figure 1. Continued



g. Kulite Pressure Orifice Locations (Left Hand Side)
Figure 1. Continued



ORIFICE TYPES

E. IN GAP BETWEEN LRSI TILE AND FOAM SIDES OF HOLE THROUGH FILLER BAR SEALED.

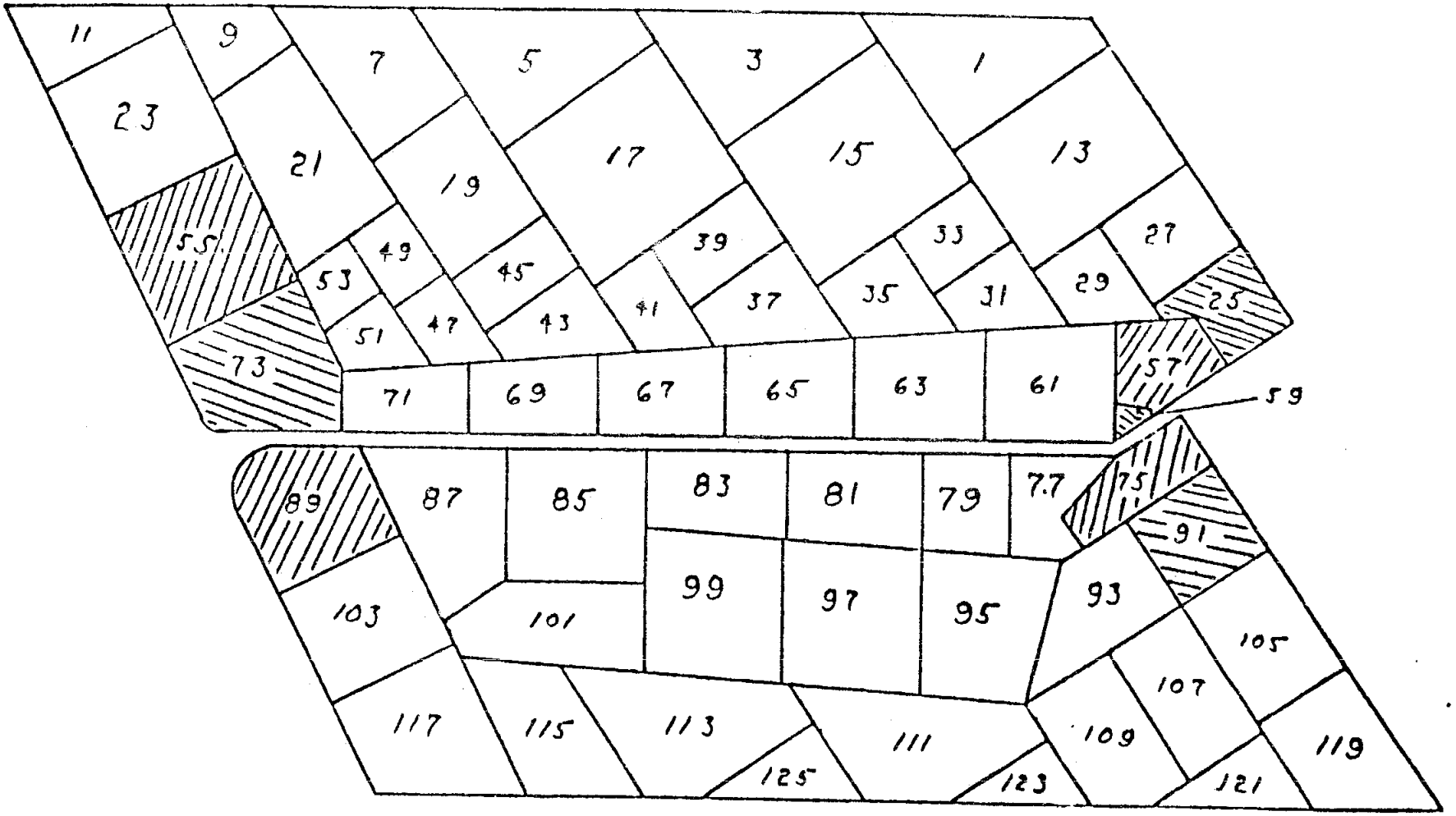
D. FLUSH WITH ML IN FOAM. FOAM AROUND ORIFICE SEALED.

C. IN GAP BETWEEN TWO LRSI TILES SIDES OF HOLE THROUGH FILLER. BAR SEALED.

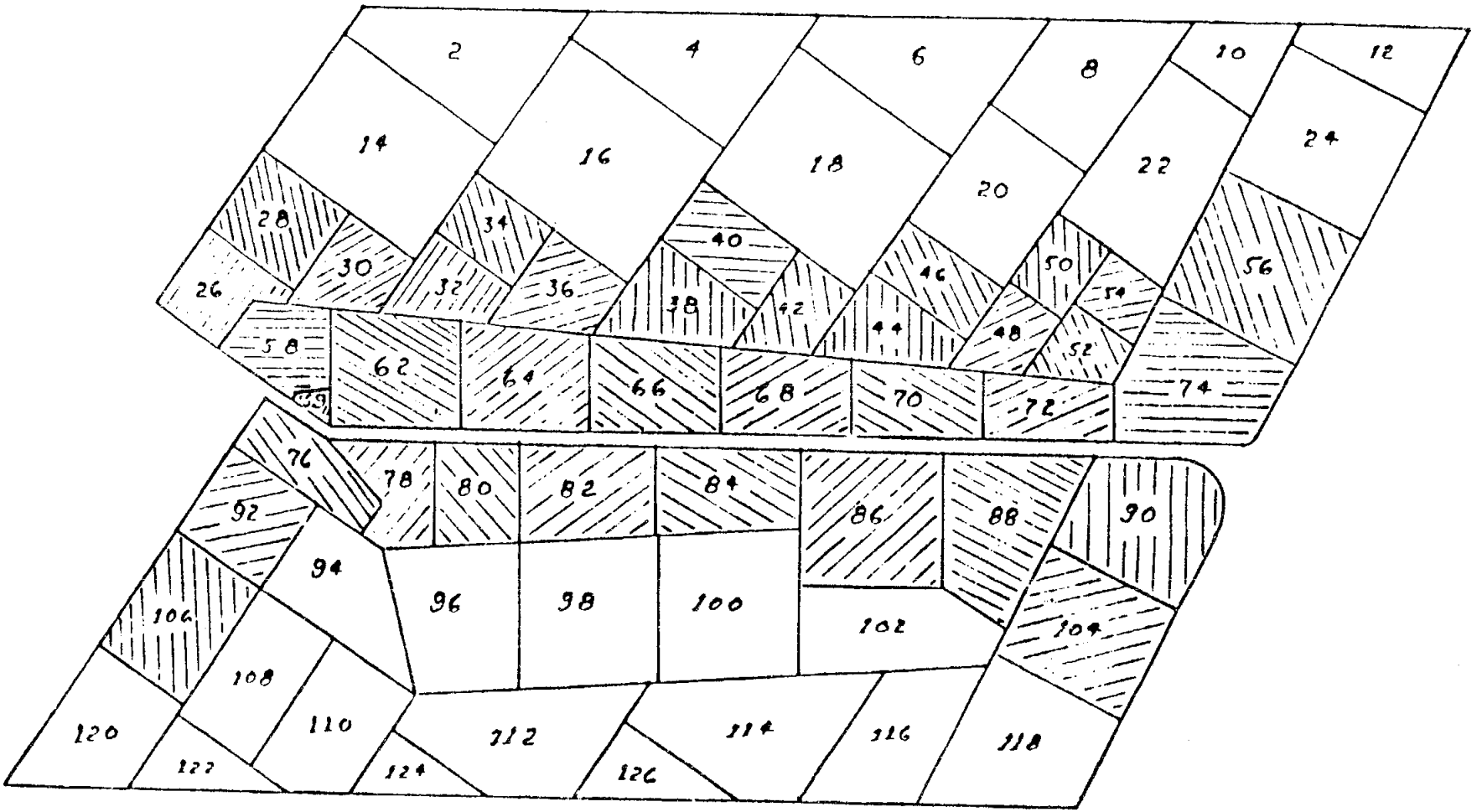
B. IN SPACE BETWEEN SIP AND FILLER BAR, UNDER LRSI TILE.

A. IN CENTER OF SIP UNDER LRSI TILE.

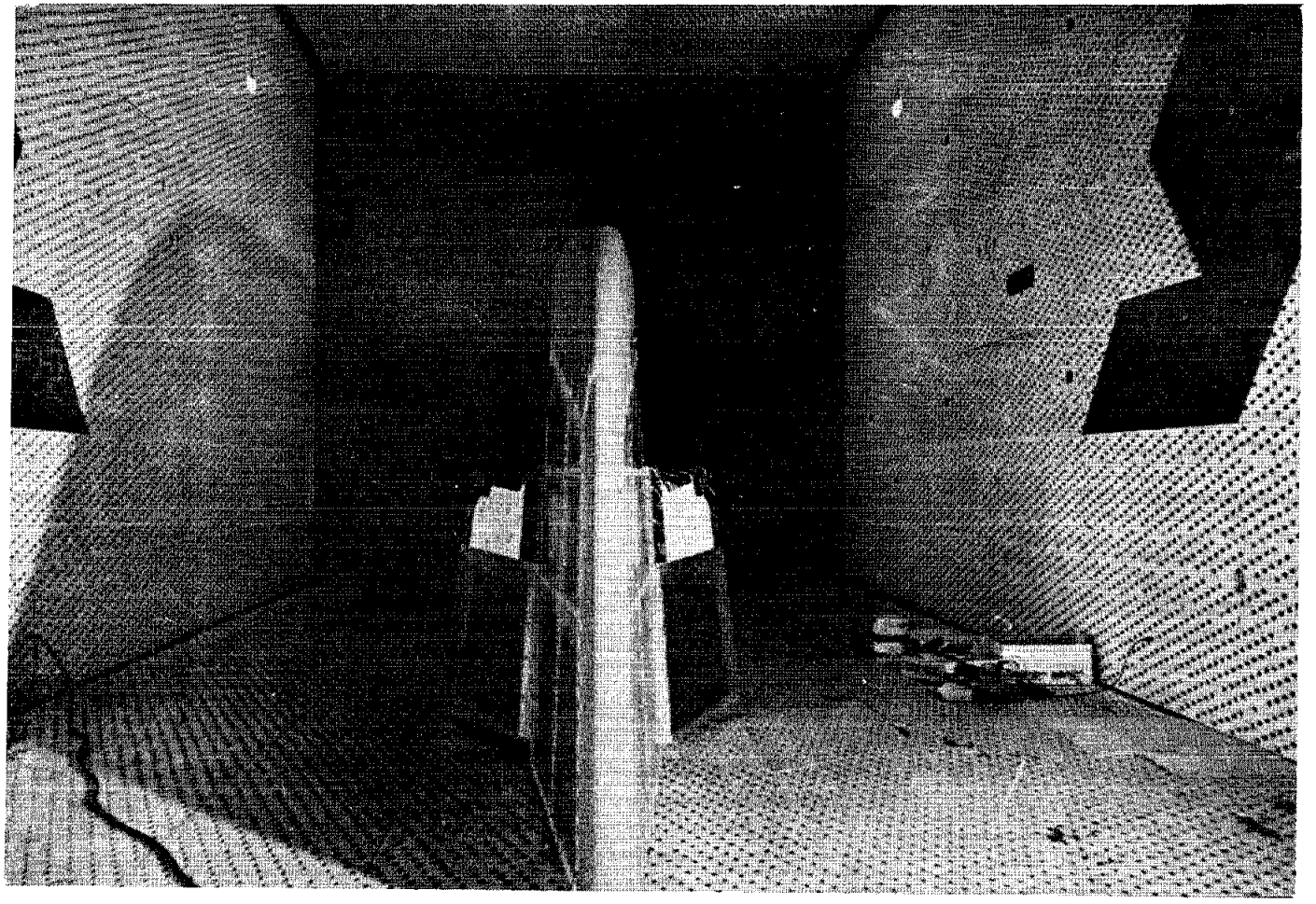
h. Orifice Type Designations
Figure 1. Continued



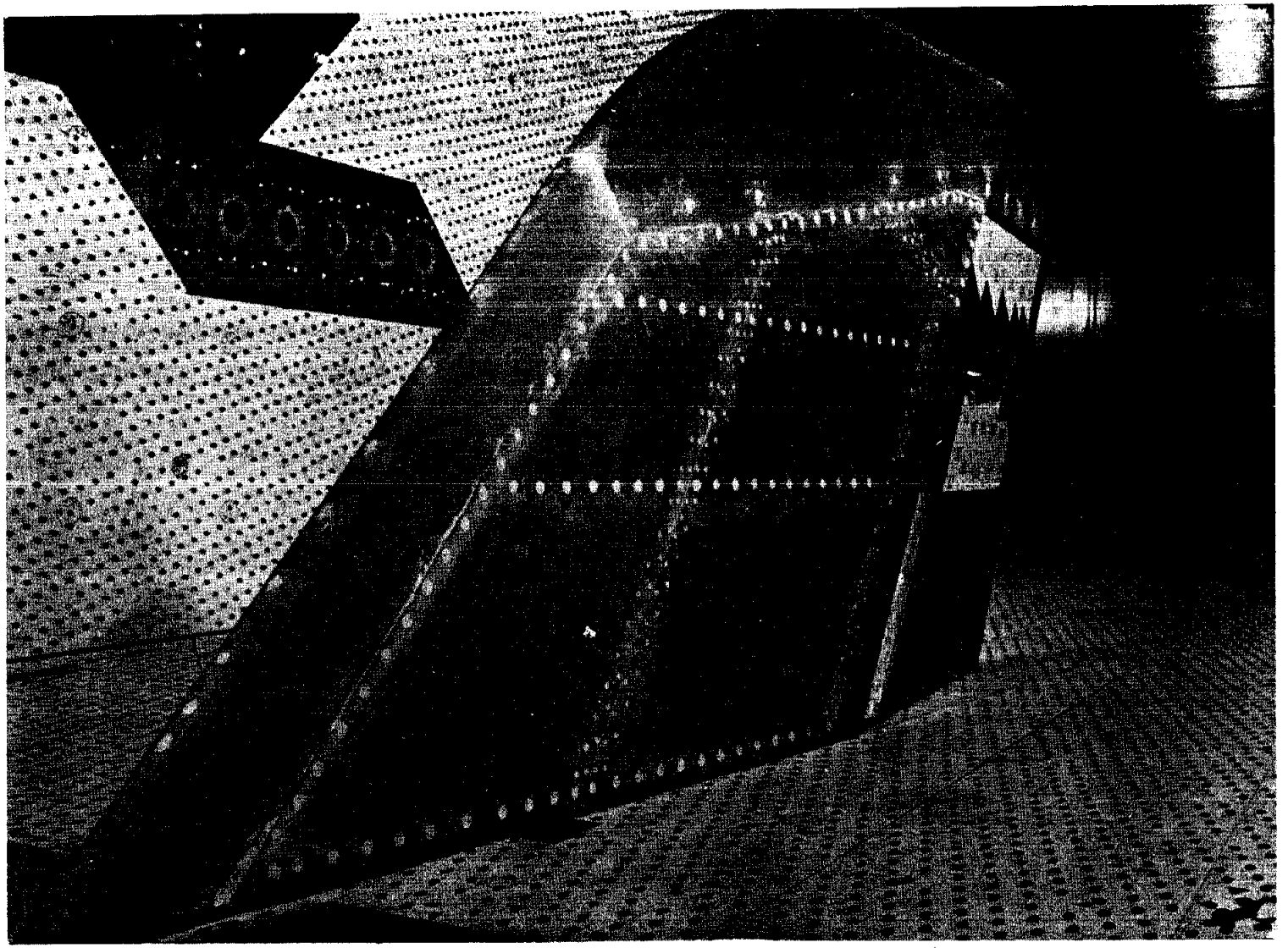
i. Tile Numbers - Right Hand Side
Figure 1. Continued



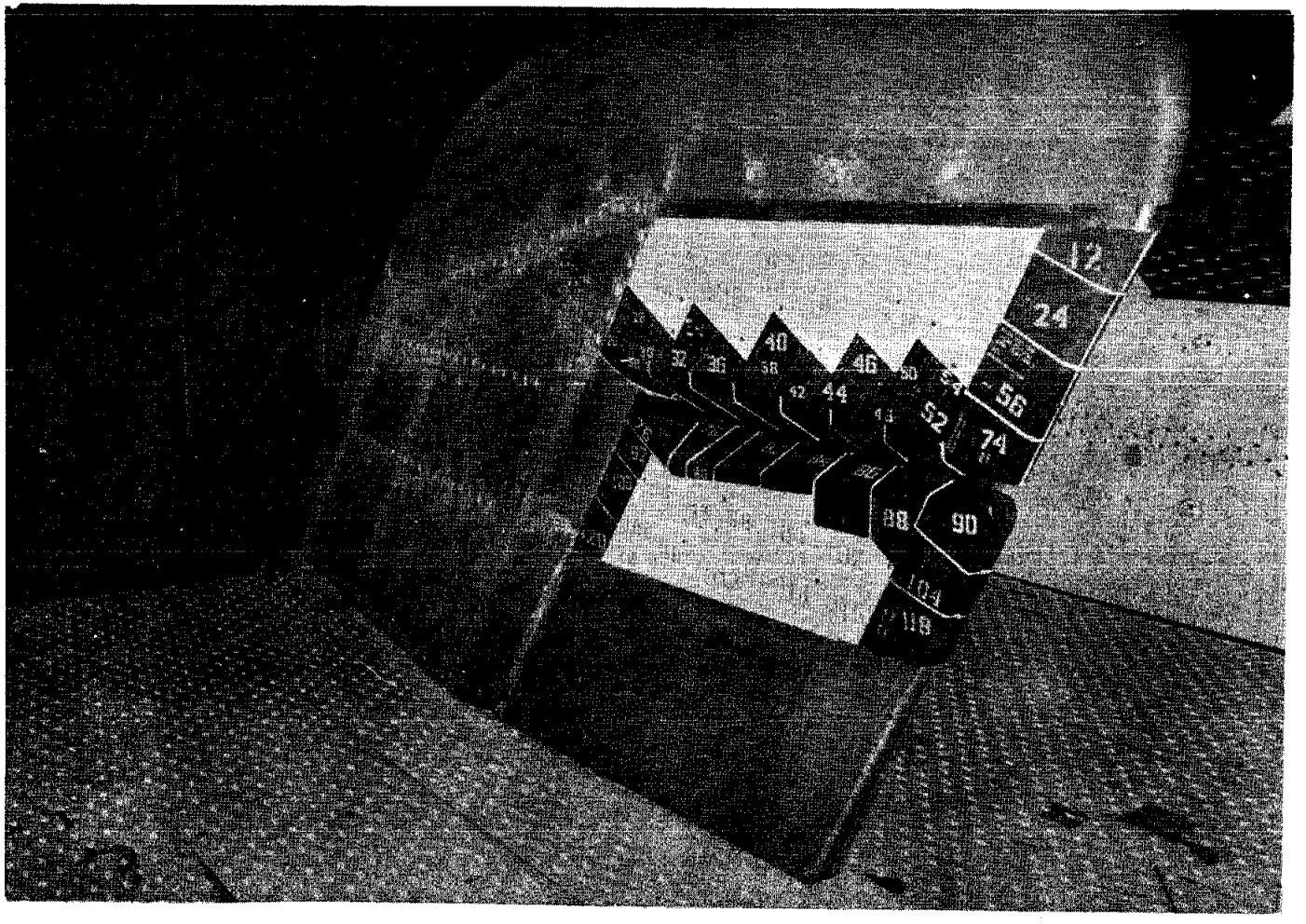
j. Tile Numbers - Left Hand Side
Figure 1. Concluded



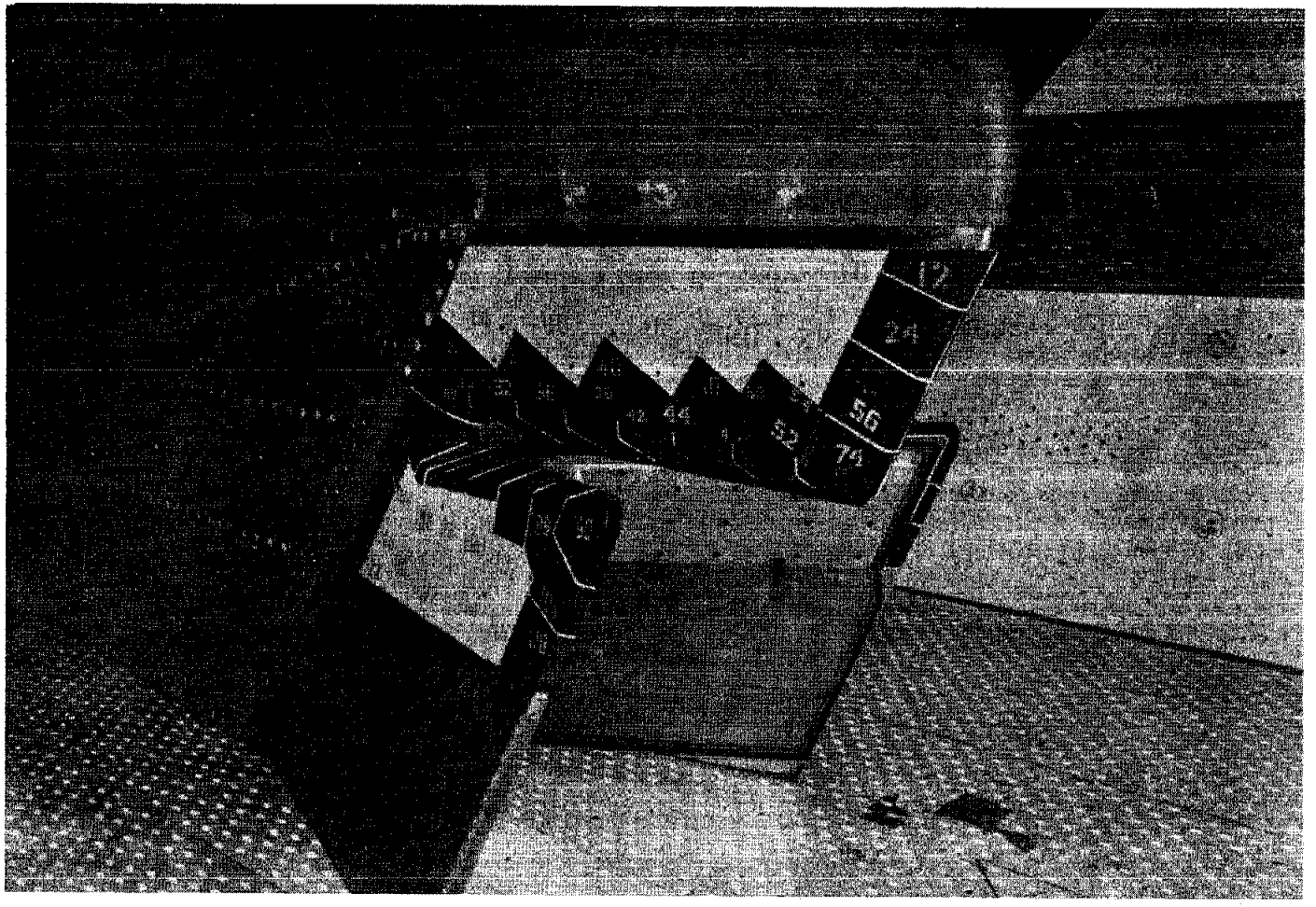
a. General Arrangement in Test Facility - Front View
Figure 2. Model Photographs



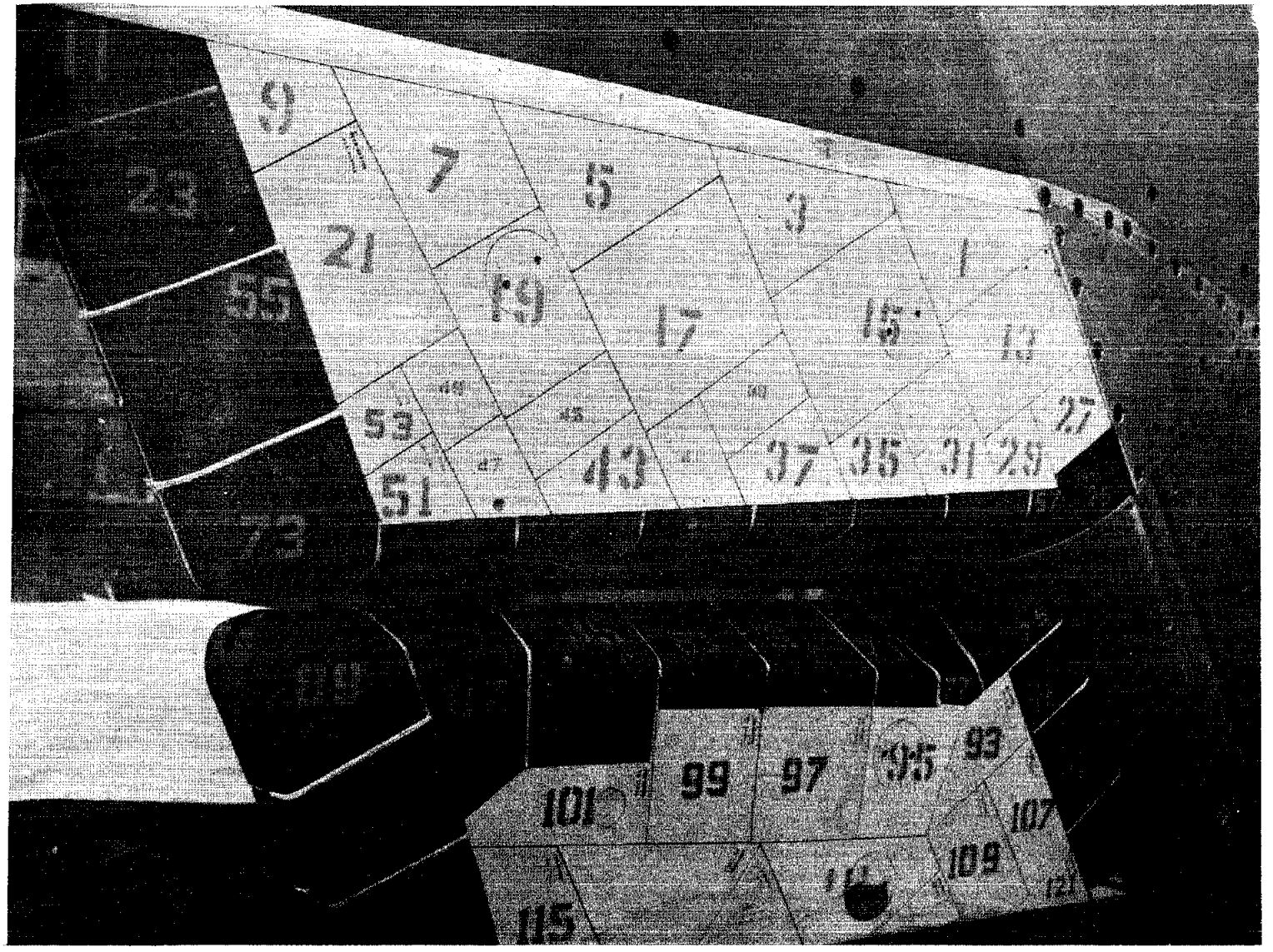
b. General Arrangement in Facility - Front 3/5 View
Figure 2. (Continued)



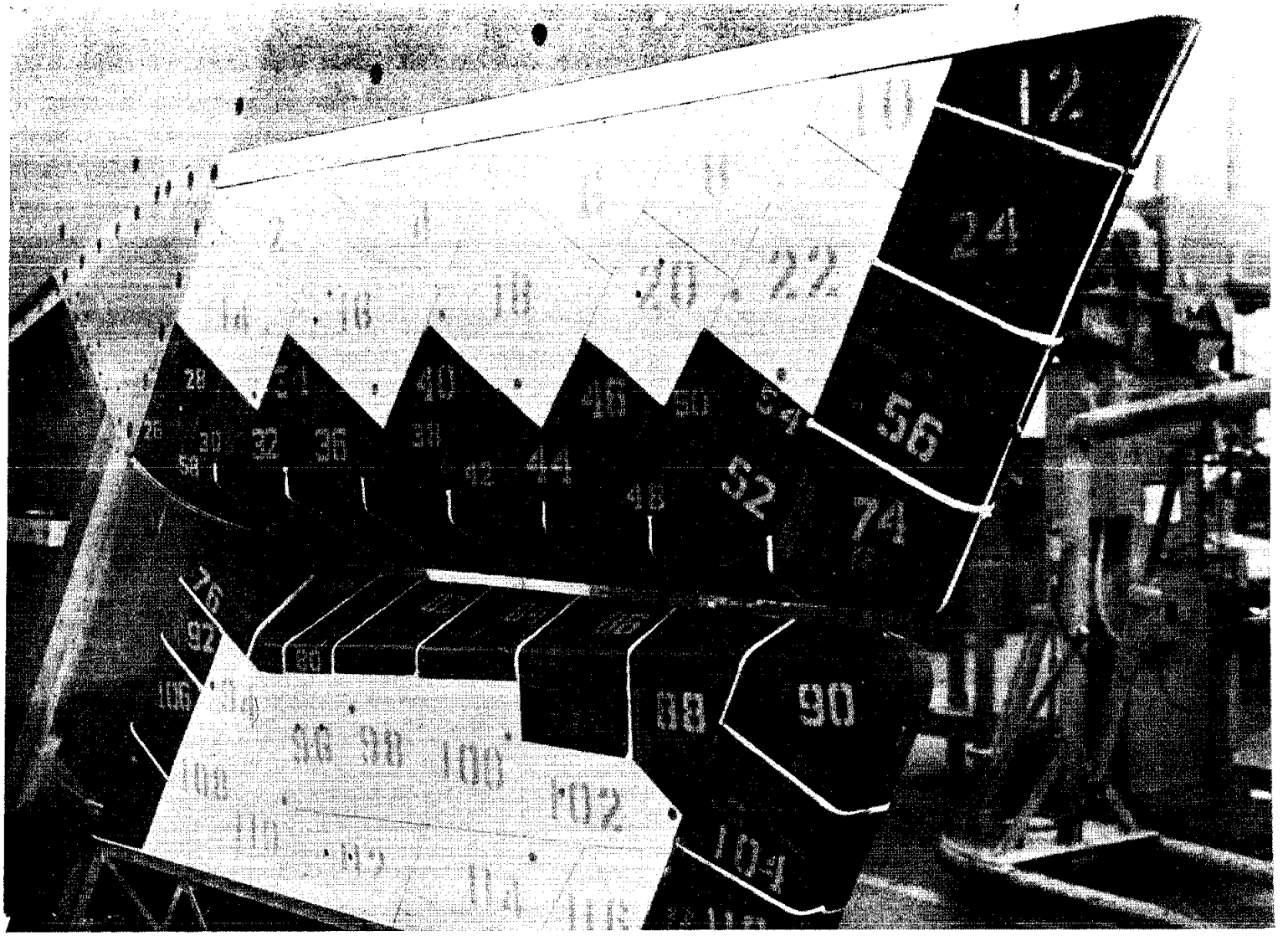
c. General Arrangement in Facility - Rear 3/4 View
Figure 2. (Continued)



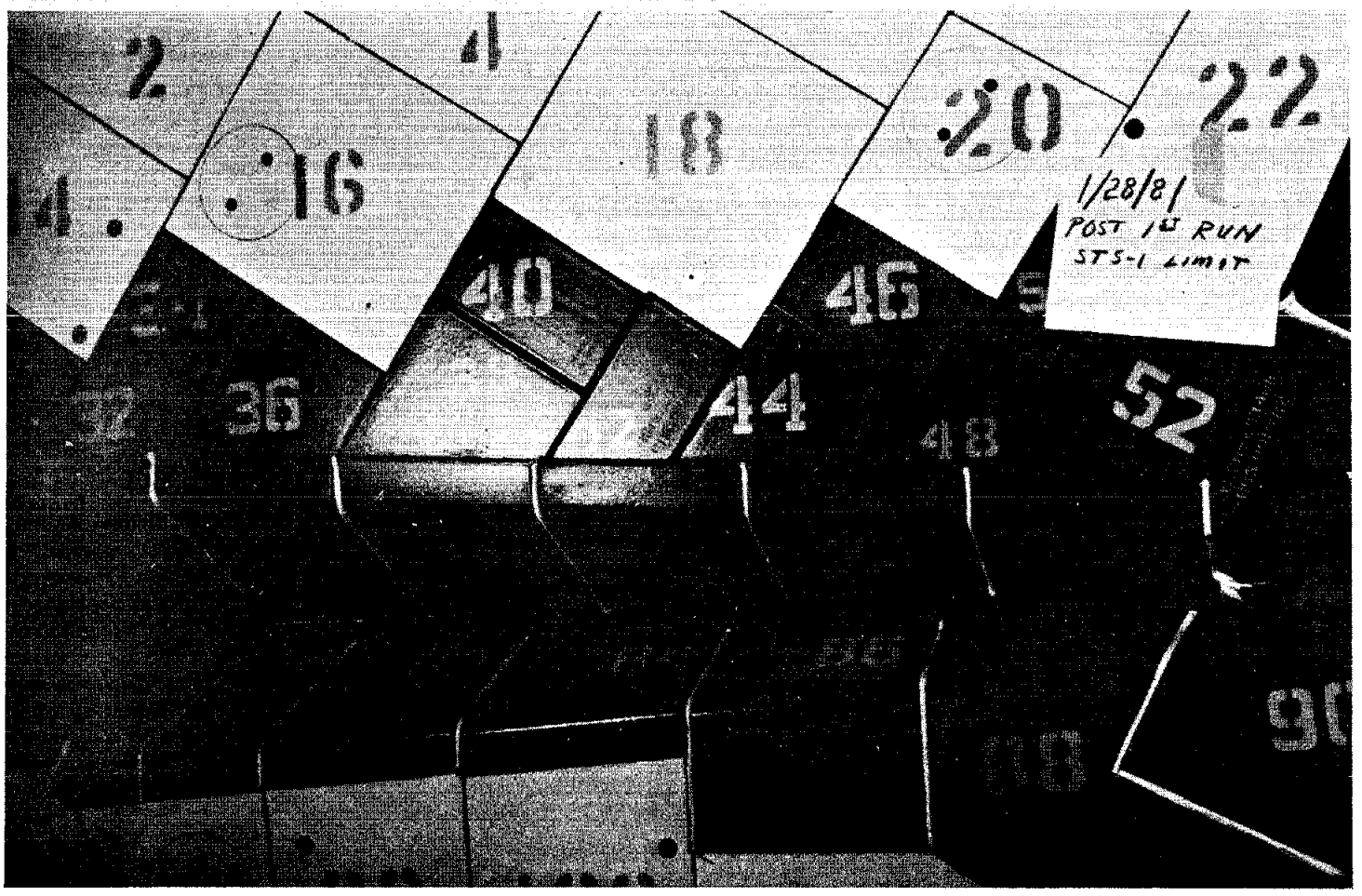
d. General Arrangement - Speed Brake Open
Figure 2. (Continued)



e. TPS General Arrangement - Right Hand Side
Figure 2. (Continued)

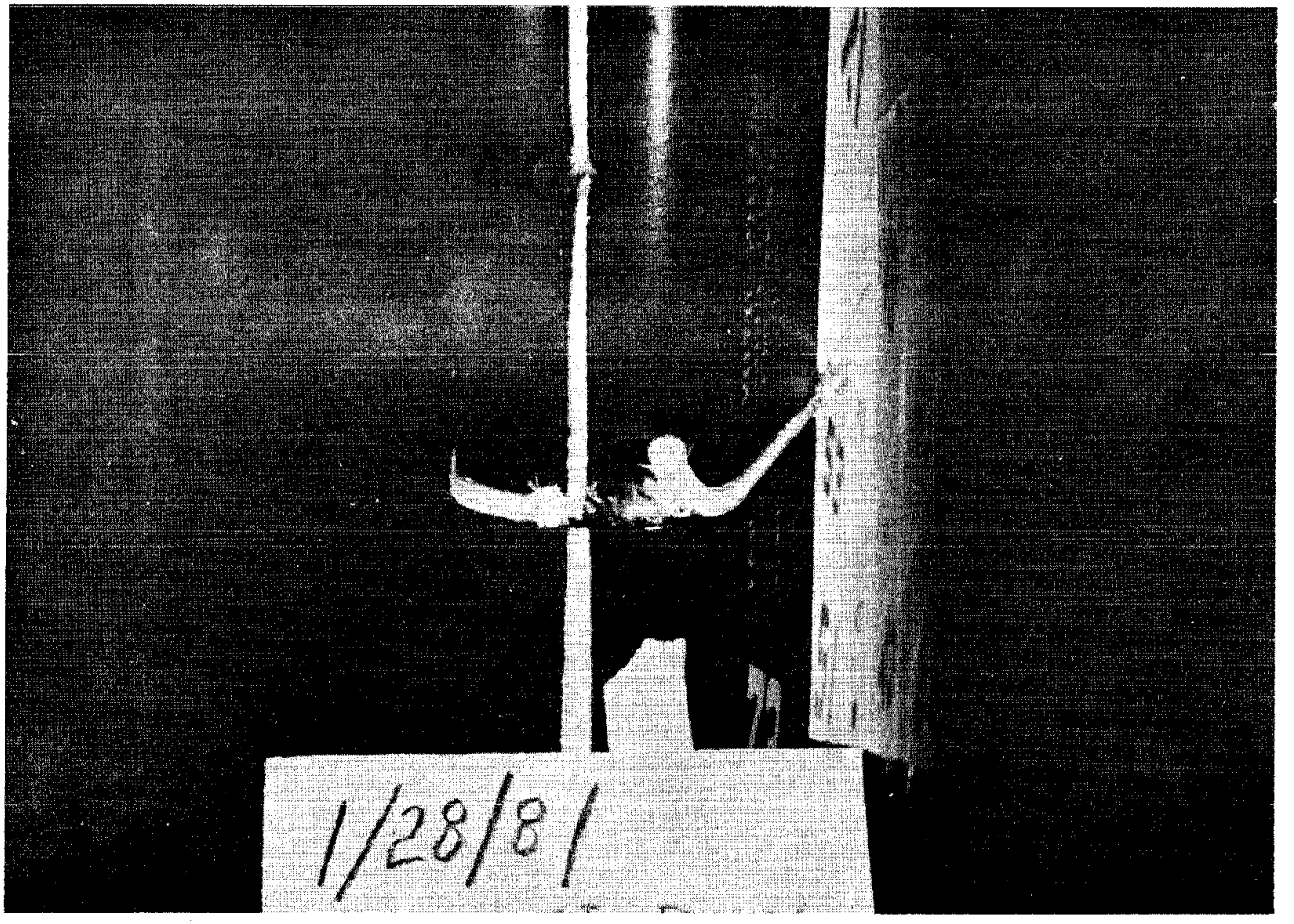


f. TPS General Arrangement - Left Hand Side
Figure 2. (Continued)

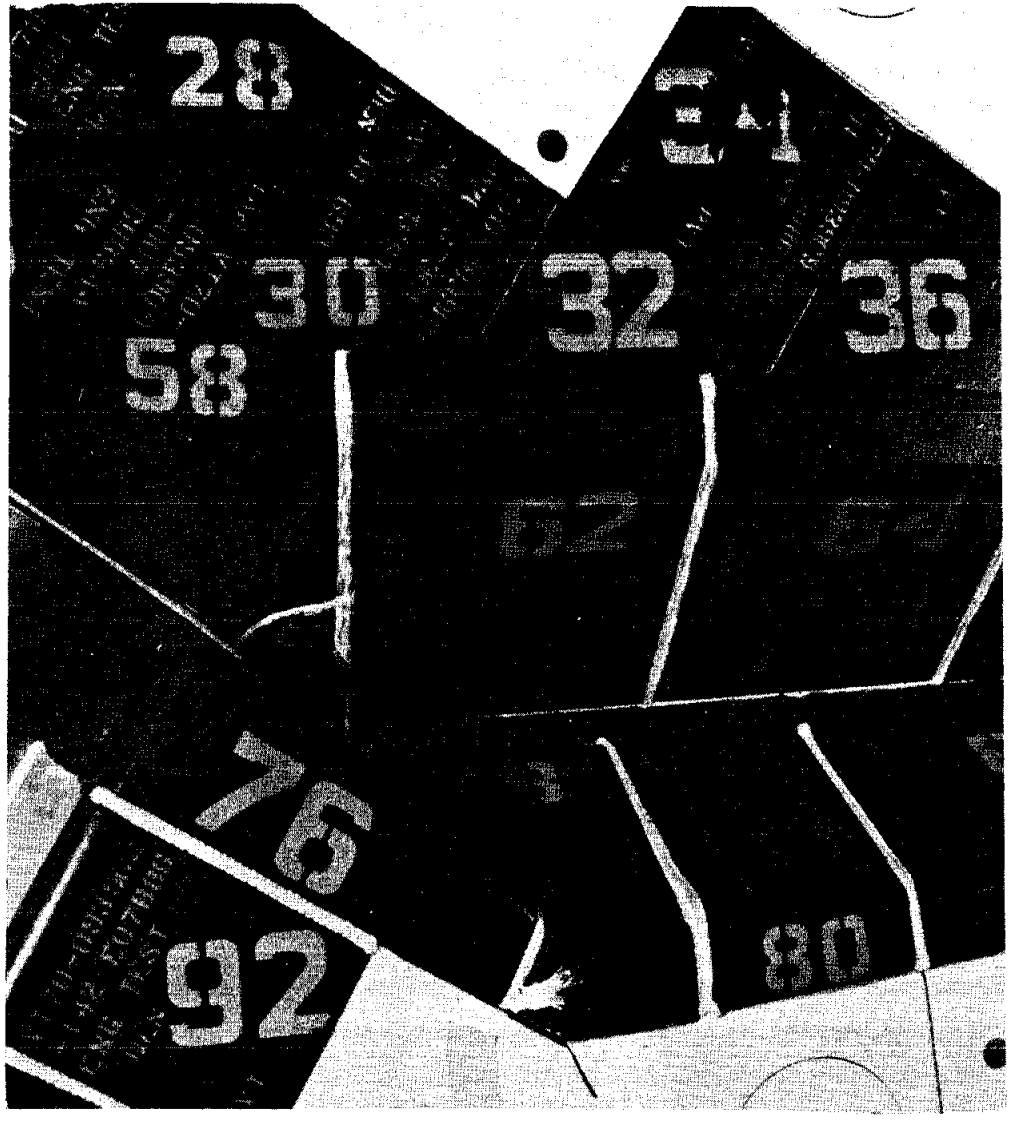


g. Post-STS-1 Limit (Run 1) - Gap Filler Damage
Figure 2. (Continued)

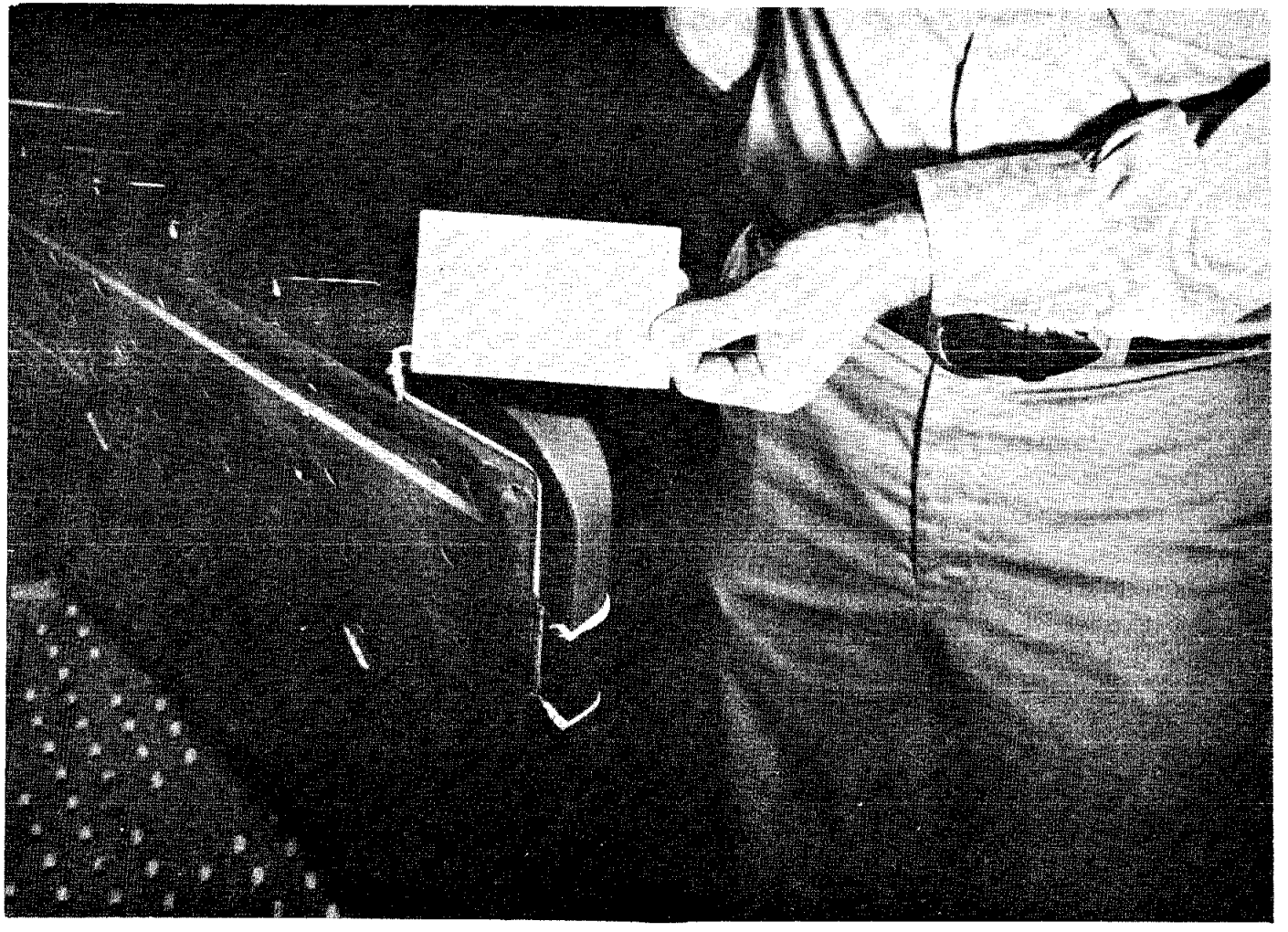
h. Post-STS-1 Limit (Run 1) - Gap Filler Damage Closeup
Figure 2. (Continued)



i. Post-STS-1 Limit (Run 1) - Gap Filler Damage Rear Closeup
Figure 2. (Continued)



j. Post-Design Limit (Run 2) - Gap Filler Damage
Figure 2. (Continued)



k. Post-Entry Design Ultimate (Run 1) - Speed Brake Open
Figure 2. (Concluded)

APPENDIX

TABULATED SOURCE DATA

Volume 1 - Runs 4-31

Volume 2 - Runs 32-46

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	1	P43G-03	TF-556	2/ 3/81	34:21: 4:48	0	286	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.090	1591.0	754.6	627.3	3.282	101.3	561.0	25880.	769.7	821.3	0.50	1.203	0.489

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	949.6	901.9	880.1	862.4	826.2	720.9									
	COEFF.	0.311	0.235	0.200	0.172	0.114	-0.054									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1098.3	918.9	909.4	876.4	857.8	716.6									
	COEFF.	0.548	0.262	0.247	0.194	0.164	-0.061									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							468.1	441.3	439.8	474.2	469.0	509.4			
	COEFF.							-0.457	-0.499	-0.502	-0.447	-0.454	-0.391			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												461.6	469.5	486.5	
	COEFF.												-0.467	-0.454	-0.427	
	ORIFICE	220	221	222												
278.0	PRESSURE	1148.6	908.7	911.8												
	COEFF.	0.628	0.246	0.251												
	ORIFICE				223	224	225									
277.0	PRESSURE				888.8	839.2	763.4									
	COEFF.				0.214	0.135	0.014									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													519.2	529.5	545.9
	COEFF.													-0.375	-0.359	-0.333
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1149.8	899.3	919.3	892.6	862.0	799.6									
	COEFF.	0.630	0.231	0.262	0.220	0.171	0.072									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1172.4	883.1	893.7	882.9	877.5	827.3									
	COEFF.	0.665	0.205	0.222	0.205	0.196	0.116									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	1	P436-03	TF-556	2/ 3/81	34:21: 4:48	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.090	1591.0	754.6	627.3	3.282	101.3	561.0	25280.	769.7	821.3	0.50	1.203	0.489

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 000ST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.60	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	331.6			652.3										787.0
	COEFF.	-0.674			-0.163										0.052
290.0	ORIFICE	232	233					234							
	PRESSURE	403.8	536.8					683.2							
	COEFF.	-0.559	-0.347					-0.114							
288.0	ORIFICE	253	254					255							
	PRESSURE	569.8	551.7					682.1							
	COEFF.	-0.295	-0.323					-0.116							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						670.8	685.3	696.4						
	COEFF.						-0.134	-0.111	-0.093						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		574.7					717.4	708.9	711.6	717.6				
	COEFF.		-0.287					-0.059	-0.073	-0.069	-0.059				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							727.1		734.8	736.5	743.8	759.3	771.9	
	COEFF.							-0.044		-0.032	-0.029	-0.017	0.007	0.027	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			702.2	721.7	740.2						722.3	717.5	726.7	
	COEFF.			-0.084	-0.052	-0.023						-0.052	-0.059	-0.044	
268.0	ORIFICE	216	217					218							
	PRESSURE	444.6	617.7					663.6							
	COEFF.	-0.494	-0.218					-0.145							
260.0	ORIFICE	207			208										209
	PRESSURE	546.6			648.1										654.8
	COEFF.	-0.332			-0.170										-0.159

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	1	P436-03	TF-556	2/ 3/81	34:21: 4:48	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.090	1591.0	754.6	627.3	3.282	101.3	561.0	25880.	769.7	821.3	0.50	1.203	0.484

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			417.1			402.1	467.1		648.3		
	COEFFICIENT			-0.538			-0.562	-0.458		-0.170		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				410.5		651.3	747.6		677.5		
	COEFFICIENT				-0.549		-0.165	-0.011		-0.123		
277.5	ORIFICE							276		277		
	PRESSURE							751.4		786.3		
	COEFFICIENT							-0.005		0.051		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		778.6		746.8
	COEFFICIENT						9.999	9.999		0.038		-0.013
260.0	ORIFICE	291B	292B									
	PRESSURE	782.0	774.6									
	COEFFICIENT	0.044	0.032									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	703.7	703.4
	COEFFICIENT	-0.081	-0.082

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.062	0.082	0.198	0.117		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.058	0.270	0.154	0.120	0.109	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.100	0.068	0.070	0.052		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

PAGE 4-2-1-01 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	2	P436-03	TF-556	2/ 3/81	34:21: 5:33	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.102	1596.2	746.1	633.8	3.292	102.1	561.8	26137.	761.2	835.0	0.50	1.215	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	949.3	900.2	878.7	857.8	818.9	718.8									
	COEFF.	0.321	0.243	0.209	0.176	0.115	-0.043									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1099.7	918.6	907.4	874.4	855.8	719.7									
	COEFF.	0.558	0.272	0.254	0.202	0.173	-0.042									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							464.4	438.0	433.5	462.2	455.7	492.2			
	COEFF.							-0.444	-0.486	-0.493	-0.448	-0.458	-0.401			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												450.3	458.6	474.8	
	COEFF.												-0.467	-0.454	-0.428	
	ORIFICE	220	221	222												
278.0	PRESSURE	1145.6	905.7	910.5												
	COEFF.	0.630	0.252	0.259												
	ORIFICE				223	224	225									
277.0	PRESSURE				886.0	831.5	762.9									
	COEFF.				0.221	0.135	0.026									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													506.5	516.9	533.2
	COEFF.													-0.378	-0.362	-0.336
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1143.9	891.2	913.6	890.3	858.6	794.5									
	COEFF.	0.628	0.229	0.264	0.228	0.177	0.076									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1164.4	870.7	883.7	878.2	873.6	826.0									
	COEFF.	0.660	0.197	0.217	0.208	0.201	0.126									

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	2	P43G-03	TF-556	2/ 3/81	34:21: 5:33	0.	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.102	1596.2	746.1	633.8	3.292	102.1	561.8	26137.	761.2	835.0	0.50	1.215	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	324.1			639.3										773.4
	COEFF.	-0.666			-0.168										0.043
290.0	ORIFICE	232	233					234							
	PRESSURE	385.7	504.1					672.7							
	COEFF.	-0.569	-0.382					-0.116							
288.0	ORIFICE	253	254					255							
	PRESSURE	536.4	531.3					663.7							
	COEFF.	-0.331	-0.339					-0.130							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						651.3	666.6	678.8						
	COEFF.						-0.150	-0.125	-0.106						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		566.5					688.7	690.5	693.5	700.1				
	COEFF.		-0.283					-0.091	-0.088	-0.083	-0.073				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							707.6		715.9	718.4	729.0	748.4	763.4	
	COEFF.							-0.061		-0.048	-0.044	-0.027	0.004	0.027	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			685.2	703.9	723.2						707.3	703.1	718.2	
	COEFF.			-0.096	-0.067	-0.036						-0.061	-0.068	-0.044	
268.0	ORIFICE	216	217					218							
	PRESSURE	437.4	607.9					641.9							
	COEFF.	-0.487	-0.218					-0.164							
260.0	ORIFICE	207			208										209
	PRESSURE	539.8			639.1										636.3
	COEFF.	-0.326			-0.169										-0.173

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	2	P436-03	TF-556	2/ 3/81	34:21: 5:33	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.102	1596.2	746.1	633.8	3.292	102.1	561.8	26137.	761.2	835.0	0.50	1.215	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			408.9			385.7	453.6		621.5		
	COEFFICIENT			-0.532			-0.569	-0.462		-0.197		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				404.8		636.8	732.1		651.6		
	COEFFICIENT				-0.539		-0.172	-0.022		-0.149		
277.5	ORIFICE							276		277		
	PRESSURE							741.8		745.3		
	COEFFICIENT							-0.007		-0.001		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		764.1		741.4
	COEFFICIENT						9.999	9.999		0.028		-0.007
260.0	ORIFICE	291B	292B									
	PRESSURE	774.7	776.2									
	COEFFICIENT	0.045	0.047									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	695.8	695.6
	COEFFICIENT	-0.079	-0.069

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.058	0.064	0.170	0.111	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.057	0.272	0.151	0.126	0.104
273.0	ORIFICE	401	402	403	404	
	VALUE	0.097	0.065	0.069	0.049	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	3	P436-03	TF-556	2/ 3/81	34:21: 6:27	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.103	1598.4	746.3	635.0	3.293	102.6	562.3	26132.	761.4	837.0	0.50	1.223	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	951.2	901.5	879.9	857.4	820.5	721.6									
	COEFF.	0.323	0.244	0.210	0.175	0.117	-0.039									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1101.3	920.4	909.1	875.7	858.2	721.8									
	COEFF.	0.559	0.274	0.256	0.204	0.176	-0.039									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							464.8	438.7	434.1	462.4	454.0	490.7			
	COEFF.							-0.443	-0.484	-0.492	-0.447	-0.459	-0.402			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												450.1	458.0	474.8	
	COEFF.												-0.466	-0.454	-0.428	
	ORIFICE	220	221	222												
278.0	PRESSURE	1146.7	906.0	911.5												
	COEFF.	0.631	0.252	0.260												
	ORIFICE				223	224	225									
277.0	PRESSURE				887.6	831.2	763.6									
	COEFF.				0.223	0.134	0.027									
	ORIFICE												*291*	*292*	*293*	
275.0	PRESSURE												505.3	515.7	532.1	
	COEFF.												-0.380	-0.363	-0.337	
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1144.6	890.9	914.1	891.4	859.8	795.8									
	COEFF.	0.627	0.228	0.264	0.229	0.179	0.078									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1164.8	869.5	883.1	878.4	874.9	827.7									
	COEFF.	0.659	0.194	0.215	0.208	0.203	0.128									

DATE 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	3	P436-03	TF-586	2/ 3/81	34:21: 6:27	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.103	1598.4	746.3	635.0	3.293	102.6	562.3	26132.	761.4	837.0	0.50	1.223	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	322.7			634.9										772.1
	COEFF.	-0.667			-0.175										0.041
290.0	ORIFICE	232	233					234							
	PRESSURE	383.6	496.7					664.0							
	COEFF.	-0.571	-0.393					-0.130							
288.0	ORIFICE	253	254					255							
	PRESSURE	511.0	529.3					657.0							
	COEFF.	-0.370	-0.342					-0.141							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						646.2	661.0	673.9						
	COEFF.						-0.158	-0.134	-0.114						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		566.8					681.4	685.5	688.8	694.7				
	COEFF.		-0.283					-0.102	-0.096	-0.091	-0.081				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							704.6		713.3	716.2	727.9	746.9	762.3	
	COEFF.							-0.066		-0.052	-0.047	-0.029	0.001	0.025	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			682.4	700.8	721.4						703.4	699.9	714.3	
	COEFF.			-0.101	-0.072	-0.039						-0.068	-0.073	-0.050	
268.0	ORIFICE	216	217					218							
	PRESSURE	433.9	607.3					639.9							
	COEFF.	-0.492	-0.219					-0.168							
260.0	ORIFICE	207			208										209
	PRESSURE	541.7			638.8										632.7
	COEFF.	-0.322			-0.169										-0.179

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	3	P436-03	TF-556	2/ 3/81	34:21: 6:27	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.103	1598.4	746.3	635.0	3.293	102.6	562.3	26132.	761.4	837.0	0.50	1.223	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			409.4			383.1	452.0		615.8		
	COEFFICIENT			-0.530			-0.572	-0.463		-0.206		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				405.6		634.6	730.6		647.7		
	COEFFICIENT				-0.536		-0.176	-0.025		-0.155		
277.5	ORIFICE							276		277		
	PRESSURE							741.8		712.9		
	COEFFICIENT							-0.007		-0.053		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		760.8		737.6
	COEFFICIENT						9.999	9.999		0.023		-0.014
260.0	ORIFICE	291B	292B									
	PRESSURE	773.9	761.4									
	COEFFICIENT	0.043	0.024									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	695.6	695.2
	COEFFICIENT	-0.080	-0.080

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.055	0.062	0.161	0.110	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.060	0.271	0.153	0.126	0.106
273.0	ORIFICE	401	402	403	404	
	VALUE	0.096	0.066	0.069	0.053	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE, [illegible] PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	4	P436-03	TF-556	2/ 3/81	34:21: 7:19	0	280	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1600.4	749.6	634.9	3.295	102.8	562.5	26033.	764.7	835.7	0.50	1.223	0.486

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	952.1	903.1	881.5	861.3	821.5	720.1									
	COEFF.	0.319	0.242	0.208	0.176	0.113	-0.046									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	1103.0	921.1	910.0	877.7	858.3	721.3									
	COEFF.	0.557	0.270	0.253	0.202	0.171	-0.044									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							465.7	438.9	435.3	465.1	457.*	494.4			
	COEFF.							-0.447	-0.489	-0.495	-0.448	-0.460	-0.402			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												452.3	460.4	477.0	
	COEFF.												-0.468	-0.455	-0.429	
278.0	ORIFICE	220	221	222												
	PRESSURE	1149.8	908.7	913.5												
	COEFF.	0.630	0.251	0.258												
277.0	ORIFICE				223	224	225									
	PRESSURE				888.7	834.9	765.5									
	COEFF.				0.219	0.134	0.025									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													508.7	519.0	535.4
	COEFF.													-0.379	-0.363	-0.337
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	1148.0	894.7	917.1	893.2	861.4	796.4									
	COEFF.	0.628	0.229	0.264	0.226	0.176	0.074									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1168.8	874.6	887.7	881.2	874.5	828.2									
	COEFF.	0.660	0.197	0.218	0.207	0.200	0.124									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND-TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	4	P436-03	TF-556	2/ 3/81	34:21: 7:19	0.	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1600.4	749.6	634.9	3.295	102.8	562.5	26033.	764.7	835.7	0.50	1.223	0.486

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	324.2			642.1										775.8
	COEFF.	-0.670			-0.169										0.041
290.0	ORIFICE	232	233					234							
	PRESSURE	387.1	510.7					675.1							
	COEFF.	-0.571	-0.376					-0.117							
288.0	ORIFICE	253	254					255							
	PRESSURE	496.5	534.8					670.4							
	COEFF.	-0.399	-0.338					-0.125							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						656.9	673.6	685.1						
	COEFF.						-0.146	-0.120	-0.101						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		568.9					695.8	697.0	699.9	705.7				
	COEFF.		-0.285					-0.085	-0.083	-0.078	-0.069				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							713.1		721.1	724.1	735.3	753.2	767.3	
	COEFF.							-0.058		-0.045	-0.040	-0.022	0.006	0.028	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			688.6	707.4	726.7						712.1	707.9	722.6	
	COEFF.			-0.096	-0.066	-0.036						-0.059	-0.066	-0.042	
268.0	ORIFICE	216	217					218							
	PRESSURE	440.0	610.5					645.9							
	COEFF.	-0.488	-0.219					-0.163							
260.0	ORIFICE	207			208										209
	PRESSURE	541.4			641.6										639.8
	COEFF.	-0.328			-0.170										-0.173

DATE. 2-27-81 PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
32	4	P43G-03	TF-556	2/ 3/81	34:21: 7:19	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1600.4	749.6	634.9	3.295	102.8	562.5	26033.	764.7	835.7	0.50	1.223	0.486

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			410.3			386.3	454.1		627.3		
	COEFFICIENT			-0.534			-0.572	-0.465		-0.193		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				406.0		639.7	735.5		655.9		
	COEFFICIENT				-0.541		-0.173	-0.022		-0.148		
277.5	ORIFICE							276		277		
	PRESSURE							745.5		697.3		
	COEFFICIENT							-0.006		-0.082		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		764.3		745.7
	COEFFICIENT						9.999	9.999		0.023		-0.006
260.0	ORIFICE	291B	292B									
	PRESSURE	777.2	764.3									
	COEFFICIENT	0.044	0.023									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	698.7	698.3
	COEFFICIENT	-0.080	-0.081

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.056	0.064	0.171	0.111		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.060	0.273	0.152	0.126	0.105	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.097	0.066	0.070	0.054		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	5	P436-03	TF-556	2/ 3/81	34:21: 7:47	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1598.6	749.2	634.0	3.298	101.9	561.6	26044.	764.3	834.3	0.50	1.222	0.486

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	951.3	902.6	880.9	860.7	821.3	719.6									
	COEFF.	0.319	0.242	0.208	0.176	0.114	-0.047									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1102.1	920.2	909.3	876.9	857.3	720.6									
	COEFF.	0.557	0.270	0.253	0.201	0.171	-0.045									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							466.0	439.2	435.3	465.1	457.7	494.7			
	COEFF.							-0.447	-0.489	-0.495	-0.448	-0.460	-0.401			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												452.3	460.5	476.8	
	COEFF.												-0.468	-0.455	-0.430	
	ORIFICE	220	221	222												
278.0	PRESSURE	1149.0	908.2	912.7												
	COEFF.	0.631	0.251	0.258												
	ORIFICE				223	224	225									
277.0	PRESSURE				888.1	834.6	765.0									
	COEFF.				0.219	0.135	0.025									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													508.9	519.0	535.5
	COEFF.													-0.379	-0.363	-0.337
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1147.4	894.4	916.6	892.5	860.9	795.9									
	COEFF.	0.628	0.229	0.264	0.226	0.176	0.074									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1168.7	874.7	887.4	881.0	876.1	827.7									
	COEFF.	0.662	0.198	0.218	0.208	0.200	0.124									

DATE 2-27-81 PRODUCT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY	HR	MIN	SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
32	5	P436-03	TF-555	2/ 3/81	34	21	7	47	0.	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1598.6	749.2	634.0	3.298	101.9	561.6	26044.	764.3	834.3	0.50	1.222	0.486

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	324.3			642.6										775.9
	COEFF.	-0.670			-0.168										0.042
290.0	ORIFICE	232	233					234							
	PRESSURE	387.4	512.0					674.7							
	COEFF.	-0.571	-0.374					-0.118							
288.0	ORIFICE	253	254					255							
	PRESSURE	490.6	535.3					671.7							
	COEFF.	-0.408	-0.337					-0.122							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						658.5	674.2	686.0						
	COEFF.						-0.143	-0.118	-0.100						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		568.8					697.6	698.1	701.2	706.6				
	COEFF.		-0.284					-0.081	-0.081	-0.076	-0.067				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							713.7		721.8	724.6	736.0	753.5	767.5	
	COEFF.							-0.056		-0.043	-0.039	-0.021	0.007	0.029	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			689.2	708.0	725.8						712.0	708.6	722.6	
	COEFF.			-0.095	-0.065	-0.037						-0.057	-0.064	-0.042	
268.0	ORIFICE	216	217					218							
	PRESSURE	439.8	610.5					646.3							
	COEFF.	-0.488	-0.219					-0.162							
260.0	ORIFICE	207			208										209
	PRESSURE	541.4			641.5										640.2
	COEFF.	-0.328			-0.170										-0.172

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES. INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION. TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	5	P436-03	TF-556	2/ 3/81	34:21: 7:47	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1598.6	749.2	634.0	3.298	101.9	561.6	26044.	764.3	834.3	0.50	1.222	0.486

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
	ORIFICE			282			283	284		285		
282.0	PRESSURE			409.7			387.1	454.2		628.0		
	COEFFICIENT			-0.536			-0.571	-0.465		-0.191		
	ORIFICE				278		279	280		281		
280.0	PRESSURE				405.3		639.6	735.8		656.8		
	COEFFICIENT				-0.542		-0.173	-0.021		-0.140		
	ORIFICE							276		277		
277.5	PRESSURE							745.0		691.5		
	COEFFICIENT							-0.007		-0.091		
	ORIFICE						271	272		273		274
276.0	PRESSURE						0.0	0.0		764.6		745.3
	COEFFICIENT						9.999	9.999		0.024		-0.006
	ORIFICE	291B	292B									
260.0	PRESSURE	777.3	764.1									
	COEFFICIENT	0.044	0.024									

INSIDE PRESSURE ORIFICES

	ORIFICE	261	262
276.0	PRESSURE	698.4	698.1
	COEFFICIENT	-0.080	-0.081

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.057	0.066	0.176	0.112	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.060	0.270	0.152	0.126	0.105
273.0	ORIFICE	401	402	403	404	
	VALUE	0.098	0.066	0.070	0.053	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE: 2-17-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	6	P436-03	TF-556	2/ 3/81	34:21: 8:17	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.101	1602.7	749.9	636.1	3.313	101.1	560.8	26021.	765.1	837.6	0.50	1.224	0.482

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	952.7	903.9	882.2	861.9	822.1	720.8									
	COEFF.	0.319	0.242	0.298	0.176	0.113	-0.046									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	1103.9	921.9	910.7	878.3	858.9	722.2									
	COEFF.	0.556	0.270	0.253	0.202	0.171	-0.044									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							465.9	439.6	435.4	465.3	457.6	494.2			
	COEFF.							-0.447	-0.488	-0.494	-0.448	-0.460	-0.402			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												451.6	459.7	476.3	
	COEFF.												-0.469	-0.456	-0.430	
278.0	ORIFICE	220	221	222												
	PRESSURE	1150.6	909.1	914.0												
	COEFF.	0.630	0.250	0.258												
277.0	ORIFICE				223	224	225									
	PRESSURE				889.6	835.1	765.7									
	COEFF.				0.220	0.134	0.025									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													508.5	518.8	535.3
	COEFF.													-0.380	-0.363	-0.337
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	1149.0	895.4	917.7	894.0	862.4	797.3									
	COEFF.	0.627	0.229	0.264	0.226	0.177	0.074									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1169.6	874.9	888.1	882.0	877.1	829.1									
	COEFF.	0.660	0.196	0.217	0.208	0.200	0.124									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	6	P436-03	TF-556	2/ 3/81	34:21: 8:17	0.	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.101	1602.7	749.9	636.1	3.313	101.1	560.8	26021.	765.1	837.6	0.50	1.224	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	324.4			641.8										776.3
	COEFF.	-0.669			-0.170										0.041
290.0	ORIFICE	232	233					234							
	PRESSURE	386.7	508.8					675.8							
	COEFF.	-0.571	-0.379					-0.117							
288.0	ORIFICE	253	254					255							
	PRESSURE	486.8	534.3					669.2							
	COEFF.	-0.414	-0.339					-0.127							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						656.5	672.2	684.5						
	COEFF.						-0.147	-0.122	-0.103						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		569.2					694.1	696.3	699.4	704.8				
	COEFF.		-0.284					-0.088	-0.084	-0.079	-0.071				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							711.9		719.8	723.8	735.3	753.0	767.7	
	COEFF.							-0.060		-0.047	-0.041	-0.023	0.005	0.028	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			687.7	706.5	725.6						711.2	707.5	722.1	
	COEFF.			-0.098	-0.068	-0.038						-0.061	-0.067	-0.044	
268.0	ORIFICE	216	217					218							
	PRESSURE	440.1	610.4					645.3							
	COEFF.	-0.487	-0.219					-0.165							
260.0	ORIFICE	207			208										209
	PRESSURE	541.7			642.1										639.7
	COEFF.	-0.327			-0.170										-0.173

DATE, 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEL	CART	
32	6	P436-03	TF-556	2/ 3/81	34:21: 8:17	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.101	1602.7	749.9	636.1	3.313	101.1	560.8	26021.	765.1	837.6	0.50	1.224	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			410.2			386.1	454.3		625.9		
	COEFFICIENT			-0.534			-0.572	-0.465		-0.195		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				405.9		639.0	734.7		654.8		
	COEFFICIENT				-0.541		-0.174	-0.024		-0.150		
277.5	ORIFICE							276		277		
	PRESSURE							745.5		687.1		
	COEFFICIENT							-0.007		-0.099		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		764.5		745.4
	COEFFICIENT						9.999	9.999		0.023		-0.007
260.0	ORIFICE	291B	292B									
	PRESSURE	779.4	764.7									
	COEFFICIENT	0.046	0.023									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	698.6	698.3
	COEFFICIENT	-0.081	-0.081

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.056	0.066	0.169	0.111	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.060	0.277	0.153	0.127	0.105
273.0	ORIFICE	401	402	403	404	
	VALUE	0.098	0.067	0.070	0.053	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
32	7	P436-03	TF-556	2/ 3/81	34:21: 8:47	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	HEX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1603.9	751.4	636.2	3.317	100.9	560.6	25976.	766.6	837.3	0.50	1.223	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	954.5	905.5	883.7	863.4	823.8	721.9									
	COEFF.	0.319	0.242	0.208	0.176	0.114	-0.046									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	1106.0	923.0	912.2	880.0	860.2	723.0									
	COEFF.	0.557	0.270	0.253	0.202	0.171	-0.045									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							466.3	440.2	436.1	466.3	458.9	495.9			
	COEFF.							-0.448	-0.489	-0.496	-0.448	-0.460	-0.402			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												453.6	461.5	478.2	
	COEFF.												-0.468	-0.456	-0.429	
278.0	ORIFICE	220	221	222												
	PRESSURE	1152.4	910.7	915.5												
	COEFF.	0.630	0.250	0.258												
277.0	ORIFICE				223	224	225									
	PRESSURE				890.9	836.8	767.2									
	COEFF.				0.219	0.134	0.025									
275.0	ORIFICE												*291*	*292*	*293*	
	PRESSURE												510.0	520.3	536.8	
	COEFF.												-0.380	-0.363	-0.337	
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	1150.8	896.9	919.0	895.2	863.6	798.5									
	COEFF.	0.628	0.229	0.263	0.226	0.176	0.074									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1171.8	876.7	889.8	883.3	878.7	830.2									
	COEFF.	0.661	0.197	0.217	0.207	0.200	0.124									

DATE 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	7	P436-03	TF-556	2/ 3/81	34:21: 8:47	0.	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1603.9	751.4	636.2	3.317	100.9	560.6	25976.	766.6	837.3	0.50	1.223	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	325.2			643.4										777.8
	COEFF.	-0.670			-0.170										0.041
290.0	ORIFICE	232	233					234							
	PRESSURE	388.0	511.9					676.8							
	COEFF.	-0.571	-0.377					-0.117							
288.0	ORIFICE	253	254					255							
	PRESSURE	483.4	535.8					671.9							
	COEFF.	-0.421	-0.339					-0.125							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						658.4	674.6	686.6						
	COEFF.						-0.146	-0.121	-0.102						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		570.2					697.7	698.7	701.8	708.1				
	COEFF.		-0.285					-0.084	-0.083	-0.078	-0.068				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							714.7		722.8	725.6	737.2	755.5	768.5	
	COEFF.							-0.058		-0.045	-0.041	-0.022	0.006	0.027	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			690.3	709.3	727.9						713.4	709.6	724.3	
	COEFF.			-0.096	-0.066	-0.037						-0.060	-0.066	-0.043	
268.0	ORIFICE	216	217					218							
	PRESSURE	441.1	612.3					647.3							
	COEFF.	-0.488	-0.219					-0.164							
260.0	ORIFICE	207			208										209
	PRESSURE	543.0			643.6										641.6
	COEFF.	-0.328			-0.170										-0.173

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	7	P436-03	TF-556	2/ 3/81	34:21: 8:47	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1603.9	751.4	636.2	3.317	100.9	560.6	25976.	766.6	837.3	0.50	1.223	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	-0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			411.0			387.3	455.5		628.2		
	COEFFICIENT			-0.535			-0.572	-0.465		-0.194		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				406.6		641.0	737.4		657.2		
	COEFFICIENT				-0.542		-0.174	-0.022		-0.148		
277.5	ORIFICE							276		277		
	PRESSURE							747.3		684.5		
	COEFFICIENT							-0.006		-0.105		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		766.1		746.9
	COEFFICIENT						9.999	9.999		0.023		-0.007
260.0	ORIFICE	291B	292B									
	PRESSURE	780.6	766.7									
	COEFFICIENT	0.046	0.024									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	700.2	699.8
	COEFFICIENT	-0.081	-0.081

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.058	0.066	0.174	0.112	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.060	0.277	0.154	0.128	0.105
273.0	ORIFICE	401	402	403	404	
	VALUE	0.098	0.067	0.070	0.054	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	8	P436-03	TF-556	2/ 3/81	34:21: 9:18	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1604.0	751.4	636.2	3.315	101.1	560.8	25976.	766.6	837.4	0.50	1.225	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	954.2	905.4	883.4	863.2	823.5	722.1									
	COEFF.	0.319	0.242	0.208	0.176	0.113	-0.046									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1105.7	923.4	912.2	879.7	860.4	723.3									
	COEFF.	0.557	0.270	0.253	0.202	0.171	-0.044									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							467.2	440.4	436.3	466.8	459.1	495.9			
	COEFF.							-0.447	-0.489	-0.495	-0.447	-0.459	-0.402			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												453.6	461.5	477.6	
	COEFF.												-0.468	-0.456	-0.430	
	ORIFICE	220	221	222												
278.0	PRESSURE	1152.6	910.8	915.5												
	COEFF.	0.631	0.251	0.258												
	ORIFICE				223	224	225									
277.0	PRESSURE				891.1	836.9	767.3									
	COEFF.				0.219	0.134	0.025									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													509.9	520.3	536.8
	COEFF.													-0.380	-0.363	-0.337
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1151.2	897.0	919.7	895.6	863.9	798.7									
	COEFF.	0.628	0.229	0.264	0.227	0.177	0.074									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1171.8	876.4	889.4	883.5	878.8	830.4									
	COEFF.	0.661	0.196	0.217	0.208	0.200	0.124									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	8	P436-03	TF-556	2/ 3/81	34:21: 9:18	0.	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1604.0	751.4	636.2	3.315	101.1	560.8	25976.	766.6	837.4	0.50	1.225	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	325.5			643.7										778.2
	COEFF.	-0.669			-0.169										0.042
290.0	ORIFICE	232	233					234							
	PRESSURE	388.1	511.5					677.0							
	COEFF.	-0.571	-0.377					-0.117							
289.0	ORIFICE	253	254					255							
	PRESSURE	481.1	536.2					671.6							
	COEFF.	-0.425	-0.338					-0.125							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						658.4	673.5	686.6						
	COEFF.						-0.146	-0.122	-0.102						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		570.4					697.6	698.5	701.5	707.6				
	COEFF.		-0.284					-0.085	-0.083	-0.078	-0.069				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							714.7		722.2	725.6	737.4	755.1	769.6	
	COEFF.							-0.058		-0.046	-0.041	-0.022	0.006	0.029	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			690.3	709.1	727.9						713.6	709.6	723.9	
	COEFF.			-0.096	-0.067	-0.037						-0.059	-0.066	-0.043	
268.0	ORIFICE	216	217					218							
	PRESSURE	441.1	612.1					647.4							
	COEFF.	-0.488	-0.219					-0.164							
260.0	ORIFICE	207			208										209
	PRESSURE	543.0			643.7										641.4
	COEFF.	-0.328			-0.169										-0.173

DATE. 6-2/-81 PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	8	P430-03	TF-556	2/ 3/81	34:21: 9:18	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1604.0	751.4	636.2	3.315	101.1	560.8	25976.	766.6	837.4	0.50	1.225	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			411.5			387.2	455.2		628.4		
	COEFFICIENT			-0.534			-0.572	-0.466		-0.193		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				407.1		641.9	737.2		656.9		
	COEFFICIENT				-0.541		-0.172	-0.022		-0.149		
277.5	ORIFICE							276		277		
	PRESSURE							747.0		682.5		
	COEFFICIENT							-0.007		-0.108		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		766.6		747.8
	COEFFICIENT						9.999	9.999		0.024		-0.006
260.0	ORIFICE	291B	292B									
	PRESSURE	779.4	766.4									
	COEFFICIENT	0.044	0.024									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	700.1	699.8
	COEFFICIENT	-0.081	-0.081

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.057	0.065	0.173	0.113	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.060	0.280	0.155	0.126	0.106
273.0	ORIFICE	401	402	403	404	
	VALUE	0.098	0.067	0.070	0.053	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEC	CART	TRANSONIC 16T
32	9	P436-03	TF-556	2/ 3/81	34:21: 9:46	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.101	1601.7	749.6	635.6	3.312	101.0	560.7	26033.	764.7	837.0	0.50	1.225	0.486

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	951.8	903.5	881.7	861.3	821.7	720.4									
	COEFF.	0.318	0.242	0.208	0.176	0.113	-0.046									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	1103.5	921.3	910.4	877.2	858.5	721.8									
	COEFF.	0.557	0.270	0.253	0.201	0.171	-0.044									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							465.3	438.9	434.8	465.1	457.4	494.4			
	COEFF.							-0.447	-0.489	-0.495	-0.448	-0.460	-0.401			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												452.5	460.4	476.8	
	COEFF.												-0.467	-0.455	-0.429	
278.0	ORIFICE	220	221	222												
	PRESSURE	1149.9	909.0	913.6												
	COEFF.	0.630	0.251	0.258												
277.0	ORIFICE				223	224	225									
	PRESSURE				888.9	835.0	765.6									
	COEFF.				0.219	0.134	0.025									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													508.7	519.2	535.6
	COEFF.													-0.379	-0.362	-0.337
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	1148.6	895.0	917.5	893.6	861.8	796.8									
	COEFF.	0.628	0.229	0.264	0.227	0.177	0.074									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1169.1	874.4	887.4	881.5	876.7	828.4									
	COEFF.	0.660	0.196	0.217	0.208	0.200	0.124									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	9	P436-03	TF-556	2/ 3/81	34:21: 9:46	0.	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.101	1601.7	749.6	635.6	3.312	101.0	560.7	26033.	764.7	837.0	0.50	1.225	0.486

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	324.4			642.4										776.3
	COEFF.	-0.669			-0.169										0.042
290.0	ORIFICE	232	233					234							
	PRESSURE	387.2	509.8					675.5							
	COEFF.	-0.570	-0.377					-0.117							
288.0	ORIFICE	253	254					255							
	PRESSURE	478.5	534.6					670.0							
	COEFF.	-0.426	-0.338					-0.125							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						656.5	672.7	684.9						
	COEFF.						-0.146	-0.121	-0.102						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		569.3					695.9	696.8	699.9	706.0				
	COEFF.		-0.284					-0.084	-0.083	-0.078	-0.069				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							713.1		720.9	723.9	735.2	753.0	767.3	
	COEFF.							-0.057		-0.045	-0.040	-0.022	0.005	0.028	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			689.1	708.0	726.9						712.1	708.2	722.8	
	COEFF.			-0.095	-0.065	-0.036						-0.059	-0.065	-0.042	
268.0	ORIFICE	216	217					218							
	PRESSURE	439.9	610.6					645.7							
	COEFF.	-0.487	-0.219					-0.163							
260.0	ORIFICE	207			208										209
	PRESSURE	541.4			642.0										639.8
	COEFF.	-0.327			-0.169										-0.173

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEL	CART	
32	9	P436-03	TF-556	2/ 3/81	34:21: 9:46	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.101	1601.7	749.6	635.6	3.312	101.0	560.7	26033.	764.7	837.0	0.50	1.225	0.486

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			410.2			386.1	453.8		626.5		
	COEFFICIENT			-0.534			-0.572	-0.465		-0.194		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				405.9		639.7	735.8		655.6		
	COEFFICIENT				-0.541		-0.173	-0.022		-0.148		
277.5	ORIFICE							276		277		
	PRESSURE							745.1		680.2		
	COEFFICIENT							-0.007		-0.109		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		765.3		745.8
	COEFFICIENT						9.999	9.999		0.025		-0.006
260.0	ORIFICE	291B	292B									
	PRESSURE	778.0	764.6									
	COEFFICIENT	0.045	0.024									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	698.4	698.1
	COEFFICIENT	-0.080	-0.081

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.056	0.066	0.176	0.113	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.061	0.271	0.154	0.126	0.105
273.0	ORIFICE	401	402	403	404	
	VALUE	0.097	0.066	0.071	0.054	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	10	P436-03	TF-556	2/ 3/81	34:21:10:19	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1598.5	748.7	634.1	3.306	100.8	560.5	26059.	763.8	834.7	0.50	1.225	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	950.9	902.4	880.8	860.2	820.0	719.6									
	COEFF.	0.319	0.242	0.208	0.176	0.112	-0.046									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1102.2	919.9	909.0	876.3	857.4	721.2									
	COEFF.	0.558	0.270	0.253	0.201	0.171	-0.043									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							464.8	438.7	434.6	464.8	457.2	493.8			
	COEFF.							-0.448	-0.489	-0.495	-0.448	-0.460	-0.402			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												452.0	460.0	476.3	
	COEFF.												-0.468	-0.455	-0.430	
	ORIFICE	220	221	222												
278.0	PRESSURE	1148.3	907.9	912.5												
	COEFF.	0.630	0.251	0.258												
	ORIFICE				223	224	225									
277.0	PRESSURE				887.8	834.1	764.7									
	COEFF.				0.219	0.135	0.025									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													508.3	518.6	535.3
	COEFF.													-0.379	-0.363	-0.336
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1146.8	893.9	916.4	692.5	860.9	795.9									
	COEFF.	0.628	0.229	0.265	0.227	0.177	0.075									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1167.3	873.5	880.2	880.6	875.3	827.5									
	COEFF.	0.660	0.197	0.217	0.208	0.200	0.124									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	10	P436-03	TF-556	2/ 3/81	34:21:10:19	0.	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1598.5	748.7	634.1	3.306	100.8	560.5	26059.	763.8	834.7	0.50	1.225	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C →	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	324.5			641.6										775.4
	COEFF.	-0.669			-0.169										0.042
290.0	ORIFICE	232	233					234							
	PRESSURE	387.0	509.5					674.9							
	COEFF.	-0.570	-0.377					-0.116							
288.0	ORIFICE	253	254					255							
	PRESSURE	477.3	534.1					669.2							
	COEFF.	-0.428	-0.338					-0.125							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						655.8	672.0	684.0						
	COEFF.						-0.146	-0.121	-0.102						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		568.0					694.8	695.9	698.7	705.1				
	COEFF.		-0.285					-0.085	-0.083	-0.079	-0.069				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							712.2		720.4	722.8	734.2	752.3	766.8	
	COEFF.							-0.058		-0.045	-0.041	-0.023	0.006	0.029	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			688.0	706.6	725.3						711.0	707.3	721.5	
	COEFF.			-0.096	-0.066	-0.037						-0.059	-0.065	-0.043	
268.0	ORIFICE	216	217					218							
	PRESSURE	439.3	609.9					645.1							
	COEFF.	-0.488	-0.219					-0.163							
260.0	ORIFICE	207			208										209
	PRESSURE	541.0			641.0										639.1
	COEFF.	-0.327			-0.170										-0.173

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	10	P436-03	TF-556	2/ 3/81	34:21:10:19	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1598.5	748.7	634.1	3.305	100.8	560.5	26059.	763.8	834.7	0.50	1.225	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	Y/C	-0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			409.7			386.3	453.7		625.9		
	COEFFICIENT			-0.535			-0.572	-0.465		-0.194		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				405.2		639.1	734.4		654.9		
	COEFFICIENT				-0.542		-0.173	-0.023		-0.148		
277.5	ORIFICE							276		277		
	PRESSURE							744.5		678.9		
	COEFFICIENT							-0.007		-0.110		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		764.4		745.0
	COEFFICIENT						9.999	9.999		0.025		-0.006
260.0	ORIFICE	291B	292B									
	PRESSURE	777.1	763.8									
	COEFFICIENT	0.045	0.024									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	697.6	697.3
	COEFFICIENT	-0.081	-0.081

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.056	0.067	0.175	0.112		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.060	0.271	0.152	0.126	0.105	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.097	0.067	0.069	0.053		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	11	P430-03	TF-556	2/ 3/81	34:21:10:42	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1597.8	748.1	633.9	3.307	100.6	560.3	26077.	763.2	834.6	0.50	1.225	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	950.2	901.5	879.9	859.4	820.1	718.8									
	COEFF.	0.319	0.242	0.208	0.176	0.114	-0.046									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1101.0	919.2	908.3	875.4	856.4	720.0									
	COEFF.	0.557	0.270	0.253	0.201	0.171	-0.044									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							464.9	438.5	434.2	464.5	456.8	493.4			
	COEFF.							-0.447	-0.488	-0.495	-0.447	-0.459	-0.402			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												451.7	458.7	475.7	
	COEFF.												-0.468	-0.456	-0.430	
	ORIFICE	220	221	222												
278.0	PRESSURE	1147.5	906.9	911.7												
	COEFF.	0.630	0.251	0.258												
	ORIFICE				223	224	225									
277.0	PRESSURE				887.2	833.2	764.0									
	COEFF.				0.219	0.134	0.025									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													507.5	517.7	534.4
	COEFF.													-0.379	-0.363	-0.337
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1146.0	893.1	915.5	891.6	859.8	795.0									
	COEFF.	0.628	0.229	0.264	0.226	0.176	0.074									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1166.9	873.0	886.0	879.7	875.1	826.9									
	COEFF.	0.661	0.197	0.217	0.208	0.200	0.124									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN.	PROJECT	TEST	DATE	DAY.HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	11	P436-03	TF-556	2/ 3/81	34:21:10:42	0.	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1597.8	748.1	633.9	3.307	100.6	560.3	26077.	763.2	834.6	0.50	1.225	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	323.9			640.9										774.4
	COEFF.	-0.669			-0.169										0.042
290.0	ORIFICE	232	233					234							
	PRESSURE	386.4	509.4					673.8							
	COEFF.	-0.571	-0.377					-0.117							
288.0	ORIFICE	253	254					255							
	PRESSURE	475.7	533.6					669.2							
	COEFF.	-0.430	-0.338					-0.124							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						655.9	671.6	683.8						
	COEFF.						-0.145	-0.121	-0.101						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		568.0					694.5	696.1	698.8	704.9				
	COEFF.		-0.284					-0.085	-0.082	-0.078	-0.068				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							711.6		719.8	723.0	734.5	751.9	766.4	
	COEFF.							-0.058		-0.045	-0.040	-0.021	0.006	0.029	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			687.2	705.8	724.3						710.4	706.7	721.1	
	COEFF.			-0.096	-0.067	-0.037						-0.059	-0.065	-0.043	
268.0	ORIFICE	216	217					218							
	PRESSURE	438.8	609.5					644.6							
	COEFF.	-0.488	-0.219					-0.163							
260.0	ORIFICE	207			208										209
	PRESSURE	540.6			640.8										638.9
	COEFF.	-0.327			-0.169										-0.172

DATE: 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
32	11	P436-03	TF-556	2/ 3/81	34:21:10:42	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1597.8	748.1	633.9	3.307	100.6	560.3	26077.	763.2	834.6	0.50	1.225	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			409.3			385.5	452.7		625.8		
	COEFFICIENT			-0.534			-0.572	-0.466		-0.193		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				405.0		638.7	733.4		654.3		
	COEFFICIENT				-0.541		-0.173	-0.023		-0.148		
277.5	ORIFICE							276		277		
	PRESSURE							743.6		677.5		
	COEFFICIENT							-0.007		-0.111		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		763.5		744.3
	COEFFICIENT						9.999	9.999		0.024		-0.006
260.0	ORIFICE	2918	2928									
	PRESSURE	777.4	763.1									
	COEFFICIENT	0.046	0.024									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	697.0	696.5
	COEFFICIENT	-0.081	-0.081

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.057	0.066	0.173	0.112	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.060	0.276	0.152	0.127	0.107
273.0	ORIFICE	401	402	403	404	
	VALUE	0.097	0.066	0.070	0.054	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
32	12	P436-03	TF-556	2/ 3/81	34:21:11:20	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1599.2	748.9	633.9	3.306	100.7	560.4	26053.	764.0	834.2	0.50	1.224	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	950.8	902.4	880.6	860.3	820.7	719.3									
	COEFF.	0.319	0.242	0.208	0.176	0.113	-0.047									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1101.8	919.9	908.8	875.8	857.1	721.0									
	COEFF.	0.557	0.270	0.252	0.200	0.171	-0.044									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							465.5	437.6	434.6	464.8	457.*	493.5			
	COEFF.							-0.447	-0.491	-0.496	-0.448	-0.460	-0.403			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												452.0	459.7	476.1	
	COEFF.												-0.468	-0.456	-0.430	
	ORIFICE	220	221	222												
278.0	PRESSURE	1148.5	907.6	912.4												
	COEFF.	0.631	0.250	0.258												
	ORIFICE				223	224	225									
277.0	PRESSURE				887.7	834.0	764.5									
	COEFF.				0.219	0.134	0.025									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													508.2	518.5	534.9
	COEFF.													-0.380	-0.363	-0.338
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1146.8	893.8	916.2	892.2	860.5	795.6									
	COEFF.	0.628	0.229	0.264	0.226	0.176	0.074									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1167.5	873.7	886.4	880.2	875.6	827.3									
	COEFF.	0.660	0.197	0.217	0.207	0.200	0.124									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	12	P436-03	TF-556	2/ 3/81	34:21:11:20	0.	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1590.2	748.9	633.9	3.306	100.7	560.4	26053.	764.0	834.2	0.50	1.224	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	324.4			641.3										774.9
	COEFF.	-0.670			-0.170										0.041
290.0	ORIFICE	232	233					234							
	PRESSURE	386.9	510.0					674.4							
	COEFF.	-0.571	-0.377					-0.118							
288.0	ORIFICE	253	254					255							
	PRESSURE	474.9	534.4					669.9							
	COEFF.	-0.432	-0.338					-0.125							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						656.9	672.9	684.6						
	COEFF.						-0.145	-0.120	-0.101						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		568.5					694.9	696.7	699.6	705.5				
	COEFF.		-0.285					-0.085	-0.082	-0.078	-0.068				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							712.1		720.9	723.4	734.8	752.9	766.8	
	COEFF.							-0.058		-0.044	-0.040	-0.022	0.006	0.028	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			688.9	707.6	726.4						711.0	707.0	721.5	
	COEFF.			-0.095	-0.065	-0.035						-0.060	-0.066	-0.043	
268.0	ORIFICE	216	217					218							
	PRESSURE	439.2	609.8					645.0							
	COEFF.	-0.489	-0.219					-0.164							
260.0	ORIFICE	207			208										209
	PRESSURE	540.9			641.1										639.1
	COEFF.	-0.328			-0.170										-0.173

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	12	P436-03	TF-556	2/ 3/81	34:21:11:20	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1598.2	748.9	633.9	3.306	100.7	560.4	26053.	764.0	834.2	0.50	1.224	0.487

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			409.6			386.1	453.3		626.5		
	COEFFICIENT			-0.535			-0.572	-0.466		-0.193		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				405.2		639.1	735.3		655.2		
	COEFFICIENT				-0.542		-0.173	-0.021		-0.148		
277.5	ORIFICE							276		277		
	PRESSURE							744.9		676.6		
	COEFFICIENT							-0.006		-0.114		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		763.8		744.7
	COEFFICIENT						9.999	9.999		0.024		-0.007
260.0	ORIFICE	291B	292B									
	PRESSURE	778.0	764.0									
	COEFFICIENT	0.046	0.024									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	697.4	697.1
	COEFFICIENT	-0.081	-0.082

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.057	0.064	0.173	0.112	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.060	0.274	0.154	0.126	0.105
273.0	ORIFICE	401	402	403	404	
	VALUE	0.097	0.066	0.070	0.053	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEL	CART	TRANSONIC 16T
32	13	P436-03	TF-556	2/ 3/81	34:21:11:54	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1600.3	749.4	634.9	3.311	100.7	560.4	26039.	764.5	835.8	0.50	1.224	0.486

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	951.8	903.1	881.4	860.9	822.2	719.9									
	COEFF.	0.319	0.242	0.208	0.176	0.115	-0.046									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	1102.8	920.6	909.7	877.2	857.9	721.4									
	COEFF.	0.557	0.270	0.253	0.201	0.171	-0.044									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							466.0	439.2	435.1	465.5	457.7	494.7			
	COEFF.							-0.446	-0.489	-0.495	-0.447	-0.459	-0.401			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												451.9	460.0	476.6	
	COEFF.												-0.469	-0.456	-0.430	
278.0	ORIFICE	220	221	222												
	PRESSURE	1149.6	908.4	913.1												
	COEFF.	0.630	0.250	0.258												
277.0	ORIFICE				223	224	225									
	PRESSURE				888.4	834.5	765.1									
	COEFF.				0.219	0.134	0.025									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													508.7	519.0	535.7
	COEFF.													-0.379	-0.363	-0.337
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	1147.8	894.5	916.8	893.0	861.2	796.3									
	COEFF.	0.628	0.229	0.264	0.226	0.176	0.074									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1168.5	874.5	887.1	881.0	876.5	828.1									
	COEFF.	0.660	0.197	0.217	0.207	0.200	0.124									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	13	P436-03	TF-556	2/ 3/81	34:21:11:54	0.	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1600.3	749.4	634.9	3.311	100.7	560.4	26039.	764.5	835.8	0.50	1.224	0.486

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	324.5			641.9										775.4
	COEFF.	-0.669			-0.169										0.041
290.0	ORIFICE	232	233					234							
	PRESSURE	387.0	510.7					674.9							
	COEFF.	-0.571	-0.376					-0.117							
288.0	ORIFICE	253	254					255							
	PRESSURE	474.1	534.9					669.8							
	COEFF.	-0.434	-0.338					-0.125							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						656.9	672.7	684.7						
	COEFF.						-0.146	-0.121	-0.102						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		568.8					695.7	696.8	699.7	705.8				
	COEFF.		-0.284					-0.084	-0.083	-0.078	-0.069				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							712.2		720.7	723.7	735.3	753.0	767.1	
	COEFF.							-0.059		-0.045	-0.040	-0.022	0.006	0.028	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			689.5	708.1	726.7						711.7	707.7	722.8	
	COEFF.			-0.094	-0.065	-0.036						-0.059	-0.066	-0.042	
268.0	ORIFICE	216	217					218							
	PRESSURE	439.5	610.3					645.7							
	COEFF.	-0.488	-0.219					-0.163							
260.0	ORIFICE	207			208										209
	PRESSURE	541.6			640.4										639.9
	COEFF.	-0.327			-0.172										-0.172

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	13	P436-03	TF-556	2/ 3/81	34:21:11:54	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1600.3	749.4	634.9	3.311	100.7	560.4	26039.	764.5	835.8	0.50	1.224	0.486

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			410.1			386.0	452.6		626.6		
	COEFFICIENT			-0.534			-0.572	-0.467		-0.193		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				405.6		639.7	735.9		655.6		
	COEFFICIENT				-0.541		-0.173	-0.021		-0.148		
277.5	ORIFICE							276		277		
	PRESSURE							745.3		676.0		
	COEFFICIENT							-0.006		-0.116		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		764.3		745.0
	COEFFICIENT						9.999	9.999		0.023		-0.007
260.0	ORIFICE	291B	292B									
	PRESSURE	776.6	764.6									
	COEFFICIENT	0.043	0.024									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	697.9	697.8
	COEFFICIENT	-0.081	-0.081

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.057	0.068	0.174	0.113	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.061	0.274	0.153	0.126	0.107
273.0	ORIFICE	401	402	403	404	
	VALUE	0.098	0.066	0.070	0.054	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
32	14	P436-03	TF-556	2/ 3/81	34:21:12:46	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1602.9	750.3	636.0	3.314	101.0	560.7	26009.	765.5	837.4	0.50	1.225	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	953.1	904.0	832.5	861.8	822.4	720.9									
	COEFF.	0.319	0.242	0.208	0.175	0.113	-0.046									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1104.3	922.0	911.1	873.3	859.5	722.0									
	COEFF.	0.557	0.270	0.253	0.201	0.172	-0.045									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							466.1	439.7	435.8	466.1	458.5	495.2			
	COEFF.							-0.447	-0.488	-0.494	-0.447	-0.459	-0.401			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												453.1	460.4	477.1	
	COEFF.												-0.467	-0.456	-0.430	
	ORIFICE	220	221	222												
278.0	PRESSURE	1150.8	909.6	914.5												
	COEFF.	0.630	0.250	0.258												
	ORIFICE				223	224	225									
277.0	PRESSURE				889.7	835.7	766.1									
	COEFF.				0.219	0.134	0.025									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													509.4	519.6	536.3
	COEFF.													-0.379	-0.363	-0.337
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1149.3	895.8	918.3	894.3	862.2	797.6									
	COEFF.	0.627	0.229	0.264	0.226	0.176	0.074									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1169.9	875.4	888.3	887.0	877.4	829.2									
	COEFF.	0.660	0.197	0.217	0.215	0.200	0.124									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION-WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	14	P436-03	TF-556	2/ 3/81	34:21:12:46	0.	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1602.9	750.3	636.0	3.314	191.0	560.7	26009.	765.5	837.4	0.50	1.225	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	325.0			642.8										776.5
	COEFF.	-0.669			-0.169										0.041
290.0	ORIFICE	232	233					234							
	PRESSURE	387.6	510.7					675.9							
	COEFF.	-0.570	-0.377					-0.117							
288.0	ORIFICE	253	254					255							
	PRESSURE	473.6	535.4					670.6							
	COEFF.	-0.435	-0.338					-0.125							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						657.1	673.1	685.3						
	COEFF.						-0.147	-0.122	-0.102						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		569.6					696.3	697.6	700.7	706.5				
	COEFF.		-0.284					-0.085	-0.083	-0.078	-0.069				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							713.4		721.5	724.5	736.1	754.2	769.0	
	COEFF.							-0.058		-0.045	-0.041	-0.022	0.006	0.029	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			689.7	708.5	726.6						712.7	708.5	723.0	
	COEFF.			-0.095	-0.066	-0.037						-0.059	-0.066	-0.043	
268.0	ORIFICE	216	217					218							
	PRESSURE	440.2	611.3					646.4							
	COEFF.	-0.488	-0.219					-0.163							
260.0	ORIFICE	207			208										209
	PRESSURE	541.9			642.4										639.8
	COEFF.	-0.328			-0.170										-0.174

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	14	P436-03	TF-556	2/ 3/81	34:21:12:46	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1602.9	750.3	636.0	3.314	101.0	560.7	26009.	765.5	837.4	0.50	1.225	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			410.6			386.5	453.6		627.1		
	COEFFICIENT			-0.534			-0.572	-0.467		-0.194		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				406.2		640.1	736.1		656.1		
	COEFFICIENT				-0.541		-0.173	-0.022		-0.148		
277.5	ORIFICE							276		277		
	PRESSURE							746.0		675.8		
	COEFFICIENT							-0.007		-0.117		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		765.4		746.1
	COEFFICIENT						9.999	9.999		0.024		-0.007
260.0	OSIFICE	2918	2928									
	PRESSURE	779.8	765.4									
	COEFFICIENT	0.046	0.024									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	699.1	698.7
	COEFFICIENT	-0.081	-0.081

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.058	0.065	0.175	0.113	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.061	0.275	0.154	0.127	0.105
273.0	ORIFICE	401	402	403	404	
	VALUE	0.097	0.066	0.070	0.053	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE [illegible] PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	15	P436-03	TF-556	2/ 3/81	34:21:13:17	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1602.9	750.4	636.0	3.316	100.8	560.5	26006.	765.6	837.3	0.50	1.225	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	953.0	904.4	882.8	862.2	822.7	721.3									
	COEFF.	0.319	0.242	0.208	0.176	0.114	-0.046									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1104.9	922.0	911.4	878.4	859.5	722.7									
	COEFF.	0.557	0.270	0.253	0.201	0.171	-0.044									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							465.8	439.8	435.7	465.8	458.3	494.7			
	COEFF.							-0.448	-0.488	-0.495	-0.448	-0.459	-0.402			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												453.0	460.5	476.8	
	COEFF.												-0.468	-0.456	-0.430	
	ORIFICE	220	221	222												
278.0	PRESSURE	1151.1	909.7	914.5												
	COEFF.	0.630	0.250	0.258												
	ORIFICE				223	224	225									
277.0	PRESSURE				890.0	835.7	766.2									
	COEFF.				0.219	0.134	0.025									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													509.1	519.6	536.1
	COEFF.													-0.379	-0.363	-0.337
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1149.7	895.8	918.4	894.4	862.6	797.7									
	COEFF.	0.628	0.229	0.264	0.226	0.176	0.074									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1170.4	875.4	888.4	882.3	877.8	829.6									
	COEFF.	0.660	0.197	0.217	0.207	0.200	0.124									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
32	15	P436-03	TF-556	2/ 3/81	34:21:13:17	0.	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1602.9	750.4	636.0	3.316	100.8	560.5	26006.	765.6	837.3	0.50	1.225	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	325.0			642.7										776.6
	COEFF.	-0.669			-0.169										0.041
290.0	ORIFICE	232	233					234							
	PRESSURE	387.4	510.0					675.8							
	COEFF.	-0.571	-0.378					-0.117							
288.0	ORIFICE	253	254					255							
	PRESSURE	473.4	535.2					670.2							
	COEFF.	-0.436	-0.338					-0.126							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						657.0	673.8	685.0						
	COEFF.						-0.147	-0.120	-0.103						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		569.7					695.6	697.0	700.3	706.0				
	COEFF.		-0.284					-0.086	-0.084	-0.079	-0.070				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							712.9		721.2	724.3	735.8	753.9	767.5	
	COEFF.							-0.059		-0.046	-0.041	-0.023	0.005	0.027	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			689.5	708.1	727.1						712.6	708.4	722.9	
	COEFF.			-0.096	-0.066	-0.037						-0.066	-0.066	-0.043	
268.0	ORIFICE	216	217					218							
	PRESSURE	440.3	611.1					645.8							
	COEFF.	-0.488	-0.219					-0.165							
260.0	ORIFICE	207			208										209
	PRESSURE	542.3			642.4										640.5
	COEFF.	-0.327			-0.170										-0.173

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	15	P436-03	TF-556	2/ 3/81	34:21:13:17	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1602.7	750.4	636.0	3.316	100.8	560.5	26006.	765.6	837.3	0.50	1.225	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			410.8			386.5	454.2		627.2		
	COEFFICIENT			-0.534			-0.572	-0.466		-0.194		
230.0	ORIFICE				278		279	280		281		
	PRESSURE				406.8		641.2	735.7		655.9		
	COEFFICIENT				-0.540		-0.172	-0.023		-0.149		
277.5	ORIFICE							276		277		
	PRESSURE							745.9		675.7		
	COEFFICIENT							-0.007		-0.118		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		765.5		746.2
	COEFFICIENT						9.999	9.999		0.024		-0.007
260.0	ORIFICE	291B	292B									
	PRESSURE	779.5	765.5									
	COEFFICIENT	0.046	0.024									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	699.0	698.5
	COEFFICIENT	-0.081	-0.082

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.058	0.064	0.173	0.112		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.060	0.273	0.152	0.126	0.105	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.097	0.066	0.070	0.053		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. [illegible] PROJECT NO. [illegible]
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	16	P436-03	TF-556	2/ 3/81	34:21:13:47	0.	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1602.6	750.7	635.7	3.316	100.7	560.4	25997.	765.9	836.7	0.50	1.224	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	325.0			642.9										776.8
	COEFF.	-0.670			-0.170										0.041
290.0	ORIFICE	232	233					234							
	PRESSURE	387.5	510.7					676.5							
	COEFF.	-0.571	-0.378					-0.117							
288.0	ORIFICE	253	254					255							
	PRESSURE	473.5	535.6					670.9							
	COEFF.	-0.436	-0.338					-0.126							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						657.7	673.5	685.5						
	COEFF.						-0.146	-0.122	-0.103						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		570.1					696.2	697.3	700.2	706.9				
	COEFF.		-0.284					-0.086	-0.084	-0.080	-0.069				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							713.6		722.1	724.9	736.3	754.2	768.5	
	COEFF.							-0.058		-0.045	-0.041	-0.023	0.005	0.028	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			689.8	708.5	726.8						712.4	708.9	725.3	
	COEFF.			-0.096	-0.066	-0.038						-0.060	-0.066	-0.040	
268.0	ORIFICE	216	217					218							
	PRESSURE	440.4	611.5					646.6							
	COEFF.	-0.488	-0.219					-0.164							
260.0	ORIFICE	207			208										209
	PRESSURE	542.5			643.1										641.0
	COEFF.	-0.328			-0.169										-0.173

DATE. 2-27-81 PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	16	P430-03	TF-556	2/ 3/81	34:21:13:47	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1602.6	750.7	635.7	3.316	100.7	560.4	25997.	765.9	836.7	0.50	1.224	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			411.0			386.4	454.2		627.0		
	COEFFICIENT			-0.534			-0.573	-0.467		-0.194		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				406.8		641.2	735.6		656.1		
	COEFFICIENT				-0.541		-0.172	-0.024		-0.149		
277.5	ORIFICE							276		277		
	PRESSURE							746.3		675.7		
	COEFFICIENT							-0.007		-0.118		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		765.8		746.8
	COEFFICIENT						9.999	9.999		0.024		-0.006
260.0	ORIFICE	291B	292B									
	PRESSURE	780.7	765.9									
	COEFFICIENT	0.047	0.024									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	699.3	699.1
	COEFFICIENT	-0.081	-0.001

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.056	0.065	0.171	0.113		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.060	0.278	0.154	0.127	0.106	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.097	0.066	0.071	0.054		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
32	16	P436-03	TF-556	2/ 3/81	34:21:13:47	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1602.6	750.7	635.7	3.316	100.7	560.4	25997.	765.9	836.7	0.50	1.224	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	953.7	904.7	883.0	862.2	822.7	721.3									
	COEFF.	0.319	0.242	0.208	0.175	0.113	-0.046									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1105.1	922.3	911.3	878.4	859.5	722.8									
	COEFF.	0.557	0.270	0.253	0.201	0.171	-0.044									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							466.5	440.1	435.8	465.9	456.4	475.0			
	COEFF.							-0.447	-0.489	-0.495	-0.448	-0.460	-0.402			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												452.9	460.8	477.3	
	COEFF.												-0.469	-0.456	-0.430	
	ORIFICE	220	221	222												
278.0	PRESSURE	1151.5	910.3	914.8												
	COEFF.	0.630	0.251	0.258												
	ORIFICE				223	224	225									
277.0	PRESSURE				890.1	835.9	766.1									
	COEFF.				0.219	0.134	0.024									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													509.3	519.7	536.3
	COEFF.													-0.380	-0.363	-0.337
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1149.6	896.1	918.6	894.6	862.9	797.8									
	COEFF.	0.627	0.229	0.264	0.226	0.176	0.074									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1170.6	876.1	888.8	883.0	870.0	829.6									
	COEFF.	0.660	0.197	0.217	0.208	0.200	0.124									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
33	1	P436-03	TF-556	2/ 3/81	34:21:18: 7	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.865	1244.1	763.9	399.8	2.416	97.6	557.3	25603.	775.5	468.6	0.50	1.200	0.591

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	853.5	839.4	825.1	806.5	755.6	696.0									
	COEFF.	0.224	0.189	0.153	0.107	-0.021	-0.170									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	943.4	850.1	842.9	818.9	783.7	679.8									
	COEFF.	0.449	0.216	0.198	0.138	0.049	-0.210									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							572.4	569.5	579.8	647.1	648.4	664.0			
	COEFF.							-0.479	-0.486	-0.460	-0.292	-0.289	-0.250			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												639.2	647.5	656.0	
	COEFF.												-0.312	-0.291	-0.270	
278.0	ORIFICE	220	221	222												
	PRESSURE	979.8	848.8	846.1												
	COEFF.	0.540	0.212	0.206												
277.0	ORIFICE				223	224	225									
	PRESSURE				826.5	792.2	701.0									
	COEFF.				0.157	0.071	-0.157									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													661.9	664.8	669.7
	COEFF.													-0.255	-0.248	-0.236
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	986.1	846.7	853.6	832.7	807.4	716.9									
	COEFF.	0.556	0.207	0.224	0.172	0.109	-0.118									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1005.7	841.9	843.1	834.3	814.9	740.1									
	COEFF.	0.605	0.195	0.198	0.176	0.128	-0.060									

DATE [illegible] PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
33	1	P436-03	TF-556	2/ 3/81	34:21:18: 7	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.865	1244.1	763.9	399.8	2.416	97.6	557.3	25603.	775.5	468.6	0.50	1.200	0.591

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	657.6			749.0										811.9
	COEFF.	-0.266			-0.037										0.120
290.0	ORIFICE	232	233					234							
	PRESSURE	607.4	706.3					757.3							
	COEFF.	-0.391	-0.144					-0.016							
288.0	ORIFICE	253	254					255							
	PRESSURE	522.8	714.3					759.3							
	COEFF.	-0.603	-0.124					-0.012							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						757.3	761.4	765.2						
	COEFF.						-0.016	-0.006	0.003						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		692.5					775.4	768.8	770.1	772.3				
	COEFF.		-0.179					0.029	0.012	0.016	0.021				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							780.9		782.8	784.2	785.2	790.5	793.5	
	COEFF.							0.043		0.047	0.051	0.053	0.066	0.074	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			734.6	759.3	780.2						773.3	770.5	768.2	
	COEFF.			-0.073	-0.011	0.041						0.024	0.017	0.011	
268.0	ORIFICE	216	217					218							
	PRESSURE	669.3	697.9					737.7							
	COEFF.	-0.236	-0.165					-0.066							
260.0	ORIFICE	207			208										209
	PRESSURE	637.5			701.0										712.5
	COEFF.	-0.316			-0.157										-0.128

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
33	1	P436-03	TF-556	2/ 3/81	34:21:18: 7	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.865	1244.1	763.9	399.8	2.416	97.6	557.3	25603	775.5	468.6	0.50	1.200	0.591

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			575.1			609.7	677.3		756.0		
	COEFFICIENT			-0.472			-0.386	-0.216		-0.020		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				559.7		804.7	808.4		769.3		
	COEFFICIENT				-0.511		0.102	0.111		0.014		
277.5	ORIFICE							276		277		
	PRESSURE							777.0		705.2		
	COEFFICIENT							0.033		-0.147		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		769.8		770.4
	COEFFICIENT						9.999	9.999		0.015		0.016
260.0	ORIFICE	291B	292B									
	PRESSURE	777.9	775.5									
	COEFFICIENT	0.035	0.029									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	718.7	718.0
	COEFFICIENT	-0.113	-0.115

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.140	0.141	0.098	0.061	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.065	0.241	0.152	0.092	0.065
273.0	ORIFICE	401	402	403	404	
	VALUE	0.116	0.067	0.046	0.046	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
33	2	P436-03	TF-556	2/ 3/81	34:21:18:13	0	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.842	1221.7	767.7	381.4	2.348	97.2	556.9	25488.	779.1	442.6	0.50	1.192	0.602

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	851.5	838.3	824.3	806.2	756.6	702.0									
	COEFF.	0.220	0.185	0.148	0.101	-0.029	-0.172									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	936.2	848.5	841.7	818.1	783.9	684.0									
	COEFF.	0.442	0.212	0.194	0.132	0.042	-0.219									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							583.8	577.6	588.4	663.3	663.7	682.5			
	COEFF.							-0.482	-0.499	-0.470	-0.274	-0.273	-0.223			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												654.5	662.3	671.7	
	COEFF.												-0.297	-0.276	-0.252	
	ORIFICE	220	221	222												
278.0	PRESSURE	971.4	847.6	844.8												
	COEFF.	0.534	0.209	0.202												
	ORIFICE				223	224	225									
277.0	PRESSURE				825.8	792.0	703.4									
	COEFF.				0.152	0.064	-0.169									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													671.0	673.4	677.6
	COEFF.													-0.254	-0.247	-0.236
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	977.4	845.7	852.0	831.9	807.0	717.9									
	COEFF.	0.550	0.205	0.221	0.168	0.103	-0.131									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	996.0	841.5	842.3	830.5	813.9	739.7									
	COEFF.	0.599	0.193	0.196	0.164	0.121	-0.073									

DATE. 2/2/81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
33	2	P436-03	TF-556	2/ 3/81	34:21:18:13	0.	288	02-27-81	26/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.842	1221.7	767.7	381.4	2.348	97.2	556.9	25488.	779.1	442.6	0.50	1.192	0.602

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	676.9			751.5										814.8
	COEFF.	-0.238			-0.043										0.123
290.0	ORIFICE	232	233					234							
	PRESSURE	625.9	718.7					761.5							
	COEFF.	-0.372	-0.129					-0.016							
288.0	ORIFICE	253	254					255							
	PRESSURE	533.4	727.5					762.6							
	COEFF.	-0.614	-0.106					-0.014							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						762.8	765.0	767.7						
	COEFF.						-0.013	-0.007	-0.000						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		709.2					774.4	769.8	771.1	772.6				
	COEFF.		-0.154					0.018	0.005	0.009	0.013				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							784.5		786.4	786.7	786.0	791.7	794.3	
	COEFF.							0.044		0.049	0.050	0.048	0.063	0.070	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			739.8	761.8	783.2						777.6	774.3	774.1	
	COEFF.			-0.073	-0.016	0.040						0.020	0.017	0.017	
268.0	ORIFICE	216	217					218							
	PRESSURE	676.2	704.8					744.2							
	COEFF.	-0.240	-0.165					-0.062							
260.0	ORIFICE	207			208										209
	PRESSURE	652.2			708.5										717.9
	COEFF.	-0.303			-0.155										-0.131

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
33	2	P436-03	TF-556	2/ 3/81	34:21:18:13	0	288	02-27-81	26/ 1	3	1.	TRANSONIC 16T

M	PT	P	W	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.842	1221.7	767.7	381.4	2.348	97.2	556.9	25488.	779.1	442.6	0.50	1.192	0.602

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	-4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			595.9			636.3	693.3		759.3		
	COEFFICIENT			-0.450			-0.345	-0.195		-0.022		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				583.1		799.7	816.3		774.8		
	COEFFICIENT				-0.484		0.084	0.127		0.018		
277.5	ORIFICE							276		277		
	PRESSURE							781.8		711.0		
	COEFFICIENT							0.037		-0.149		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		772.9		772.7
	COEFFICIENT						9.999	9.999		0.014		0.013
260.0	ORIFICE	2918	2928									
	PRESSURE	781.8	779.3									
	COEFFICIENT	0.037	0.030									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	724.7	724.0
	COEFFICIENT	-0.113	-0.115

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.122	0.124	0.092	0.054	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.062	0.069	0.140	0.086	0.061
273.0	ORIFICE	401	402	403	404	
	VALUE	0.105	0.060	0.043	0.043	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	1	P436-03	TF-556	2/ 4/81	35: 0:14:47	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1368.3	897.5	402.2	2.529	103.6	563.3	21875.	910.2	458.1	0.50	1.178	0.835

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICE (LEFT HAND SIDE)

ZV	X/C -	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1032.0	888.4	897.7	900.8	860.8	814.4									
	COEFF.	0.334	-0.023	0.001	0.008	-0.091	-0.206									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1104.0	896.6	912.1	909.3	883.4	797.5									
	COEFF.	0.513	-0.002	0.036	0.029	-0.035	-0.249									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							698.9	693.3	706.1	794.0	796.3	818.4			
	COEFF.							-0.494	-0.508	-0.476	-0.257	-0.252	-0.197			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												781.5	793.0	808.2	
	COEFF.												-0.288	-0.260	-0.222	
	ORIFICE	220	221	222												
278.0	PRESSURE	1121.4	889.0	911.1												
	COEFF.	0.557	-0.021	0.034												
	ORIFICE				223	224	225									
277.0	PRESSURE				913.7	889.4	806.1									
	COEFF.				0.040	-0.020	-0.227									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													795.5	798.9	804.9
	COEFF.													-0.253	-0.245	-0.230
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1123.6	892.6	920.8	916.8	902.8	820.5									
	COEFF.	0.562	-0.012	0.058	0.048	0.013	-0.191									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1133.4	892.4	914.3	916.0	908.5	840.9									
	COEFF.	0.586	-0.013	0.042	0.046	0.027	-0.141									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES. INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	1	P436-03	TF-556	2/ 4/81	35: 0:14:47	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1368.3	897.5	402.2	2.529	103.6	563.3	21875.	910.2	458.1	0.50	1.178	0.835

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	813.7			879.8										950.1
	COEFF.	-0.208			-0.044										0.131
290.0	ORIFICE	232	233					234							
	PRESSURE	763.8	857.7					896.0							
	COEFF.	-0.332	-0.099					-0.004							
288.0	ORIFICE	253	254					255							
	PRESSURE	656.5	867.9					897.5							
	COEFF.	-0.599	-0.074					-0.000							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						902.2	901.5	902.2						
	COEFF.						0.012	0.010	0.012						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		857.3					904.5	901.5	902.0	901.4				
	COEFF.		-0.100					0.018	0.010	0.011	0.010				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							918.4		920.3	920.0	916.7	922.1	925.1	
	COEFF.							0.052		0.057	0.056	0.048	0.061	0.069	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			876.0	891.8	912.5						907.2	903.3	902.6	
	COEFF.			-0.053	-0.014	0.037						0.024	0.014	0.013	
268.0	ORIFICE	216	217					218							
	PRESSURE	785.7	828.9					877.6							
	COEFF.	-0.278	-0.171					-0.049							
260.0	ORIFICE	207			208										209
	PRESSURE	783.9			843.9										847.2
	COEFF.	-0.282			-0.133										-0.125

DATE, 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
37	1	P436-03	TF-556	2/ 4/81	35: 0:14:47	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1368.3	897.5	402.2	2.529	103.6	563.3	21875.	910.2	458.1	0.50	1.178	0.835

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			738.2			810.0	855.1		884.4		
	COEFFICIENT			-0.396			-0.218	-0.105		-0.033		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				730.8		863.1	943.0		908.5		
	COEFFICIENT				-0.414		-0.085	0.113		0.027		
277.5	ORIFICE							276		277		
	PRESSURE							916.0		767.0		
	COEFFICIENT							0.046		-0.325		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		871.4		893.8
	COEFFICIENT						9.999	9.999		-0.065		-0.009
260.0	ORIFICE	291B	292B									
	PRESSURE	920.0	909.3									
	COEFFICIENT	0.056	0.029									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	855.1	853.7
	COEFFICIENT	-0.105	-0.109

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.118	0.120	0.093	0.055	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.079	0.220	0.162	0.095	0.066
273.0	ORIFICE	401	402	403	404	
	VALUE	0.098	0.070	0.054	0.046	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	2	P436-03	TF-556	2/ 4/81	35: 0:14:54	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.799	1393.5	914.6	409.2	2.573	103.9	563.6	21430.	927.6	465.9	0.50	1.177	0.829

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1051.5	905.4	914.9	918.0	877.0	829.8									
	COEFF.	0.334	-0.023	0.001	0.008	-0.092	-0.207									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1124.8	913.1	929.5	926.7	900.2	812.6									
	COEFF.	0.514	-0.004	0.036	0.030	-0.035	-0.249									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							712.4	706.8	720.2	809.4	810.9	833.0			
	COEFF.							-0.494	-0.508	-0.475	-0.257	-0.254	-0.200			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												794.4	808.4	823.2	
	COEFF.												-0.294	-0.260	-0.223	
	ORIFICE	220	221	222												
278.0	PRESSURE	1142.8	905.8	928.5												
	COEFF.	0.558	-0.022	0.034												
	ORIFICE				223	224	225									
277.0	PRESSURE				930.8	906.2	821.2									
	COEFF.				0.040	-0.021	-0.228									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													809.9	813.5	819.6
	COEFF.													-0.256	-0.247	-0.232
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1145.2	909.7	938.6	934.5	919.9	836.1									
	COEFF.	0.563	-0.012	0.059	0.049	0.013	-0.192									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1155.2	909.2	931.6	934.1	925.7	856.7									
	COEFF.	0.588	-0.013	0.041	0.048	0.027	-0.141									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	2	P436-03	TF-556	2/ 4/81	35: 0:14:54	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.799	1393.5	914.6	409.2	2.573	103.9	563.6	21430.	927.6	465.9	0.50	1.177	0.820

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.76	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	829.0			896.6										968.2
	COEFF.	-0.209			-0.044										0.131
290.0	ORIFICE	232	233					234							
	PRESSURE	777.9	873.8					912.8							
	COEFF.	-0.334	-0.100					-0.004							
288.0	ORIFICE	253	254					255							
	PRESSURE	666.0	884.3					914.6							
	COEFF.	-0.608	-0.074					-0.000							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						919.1	918.7	919.9						
	COEFF.						0.011	0.010	0.013						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		873.4					922.1	919.4	919.4	917.5				
	COEFF.		-0.101					0.018	0.012	0.012	0.007				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							935.4		937.3	937.6	934.7	940.2	942.8	
	COEFF.							0.051		0.055	0.056	0.049	0.062	0.069	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			891.0	907.3	928.9						924.2	920.2	919.8	
	COEFF.			-0.058	-0.018	0.035						0.023	0.014	0.013	
268.0	ORIFICE	216	217					218							
	PRESSURE	800.6	844.4					894.1							
	COEFF.	-0.279	-0.172					-0.050							
260.0	ORIFICE	207			208										209
	PRESSURE	798.0			859.3										863.3
	COEFF.	-0.285			-0.135										-0.126

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEL	CART	
37	2	P436-03	TF-556	2/ 4/81	35: 0:14:54	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.799	1393.5	914.6	409.2	2.573	103.9	563.6	21430.	927.6	465.9	0.50	1.177	0.820

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			751.5			825.1	870.7		901.0		
	COEFFICIENT			-0.399			-0.219	-0.107		-0.033		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				743.9		879.8	961.0		925.5		
	COEFFICIENT				-0.417		-0.085	0.113		0.027		
277.5	ORIFICE							276		277		
	PRESSURE							933.9		780.6		
	COEFFICIENT							0.047		-0.328		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		889.7		910.8
	COEFFICIENT						9.999	9.999		-0.061		-0.009
260.0	ORIFICE	2918	2928									
	PRESSURE	937.4	926.9									
	COEFFICIENT	0.056	0.030									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	871.4	870.0
	COEFFICIENT	-0.106	-0.109

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.121	0.125	0.094	0.056		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.082	0.230	0.166	0.097	0.068	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.099	0.073	0.056	0.047		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
37	3	P436-03	TF-556	2/ 4/81	35: 0:17:33	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10*3
0.800	1815.8	1191.0	533.8	3.345	105.1	564.8	15050.	1208.4	607.4	0.50	1.182	0.701

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1368.1	1177.9	1189.7	1193.9	1142.1	1083.7									
	COEFF.	0.332	-0.024	-0.002	0.005	-0.092	-0.201									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1466.4	1188.1	1210.3	1205.9	1172.0	1057.0									
	COEFF.	0.516	-0.005	0.036	0.028	-0.036	-0.251									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							933.5	923.2	942.9	1052.1	1056.6	1085.4			
	COEFF.							-0.482	-0.502	-0.465	-0.260	-0.252	-0.198			
	ORIFICE													*301*	*302*	*303*
282.0	PRESSURE													1036.4	1052.9	1074.4
	COEFF.													-0.290	-0.259	-0.218
	ORIFICE	220	221	222												
278.0	PRESSURE	1489.6	1180.3	1209.4												
	COEFF.	0.559	-0.020	0.034												
	ORIFICE				223	224	225									
277.0	PRESSURE				1213.0	1179.6	1072.0									
	COEFF.				0.041	-0.021	-0.223									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													1055.8	1059.7	1067.8
	COEFF.													-0.253	-0.246	-0.231
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1493.8	1185.4	1223.5	1217.9	1198.3	1090.2									
	COEFF.	0.567	-0.010	0.061	0.050	0.014	-0.189									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1506.9	1184.7	1212.4	1217.4	1205.9	1116.3									
	COEFF.	0.592	-0.012	0.040	0.050	0.028	-0.140									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
37	3	P436-03	TF-556	2/ 4/81	35: 0:17:33	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1815.8	1191.0	533.0	3.345	105.1	564.8	15050.	1208.4	607.4	0.50	1.182	0.701

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	1083.9			1173.2										1267.8
	COEFF.	-0.201			-0.033										0.144
290.0	ORIFICE	232	233					234							
	PRESSURE	1012.5	1138.8					1189.4							
	COEFF.	-0.334	-0.098					-0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	896.5	1150.9					1194.0							
	COEFF.	-0.552	-0.075					0.006							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1198.2	1197.6	1198.7						
	COEFF.						0.013	0.012	0.014						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		1139.6					1204.2	1198.0	1198.9	1199.8				
	COEFF.		-0.096					0.025	0.013	0.015	0.016				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1217.5		1220.7	1221.0	1218.3	1224.4	1229.4	
	COEFF.							0.050		0.056	0.056	0.051	0.063	0.072	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1157.4	1179.6	1208.0						1206.9	1200.8	1200.0	
	COEFF.			-0.063	-0.021	0.032						0.030	0.018	0.017	
268.0	ORIFICE	216	217					218							
	PRESSURE	1041.2	1099.7					1164.5							
	COEFF.	-0.281	-0.171					-0.050							
260.0	ORIFICE	207			208										209
	PRESSURE	1035.6			1118.7										1129.6
	COEFF.	-0.291			-0.135										-0.115

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	3	P436-03	TF-556	2/ 4/81	35: 0:17:33	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1815.8	1191.0	533.8	3.345	105.1	564.8	15050.	1208.4	607.4	0.50	1.182	0.701

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
	ORIFICE			282			283	284		285		
282.0	PRESSURE			975.1			1078.2	1138.7		1176.1		
	COEFFICIENT			-0.404			-0.211	-0.098		-0.028		
	ORIFICE				278		279	280		281		
280.0	PRESSURE				964.5		1154.3	1257.6		1207.1		
	COEFFICIENT				-0.424		-0.069	0.125		0.030		
	ORIFICE							276		277		
277.5	PRESSURE							1214.0		1106.0		
	COEFFICIENT							0.043		-0.159		
	ORIFICE						271	272		273		274
276.0	PRESSURE						0.0	0.0		1190.0		1194.2
	COEFFICIENT						9.999	9.999		-0.002		0.006
	ORIFICE	291B	292B									
260.0	PRESSURE	1222.4	1215.3									
	COEFFICIENT	0.059	0.045									

INSIDE PRESSURE ORIFICES

	ORIFICE	261	262
276.0	PRESSURE	1137.2	1136.3
	COEFFICIENT	-0.101	-0.102

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.165	0.172	0.129	0.081	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.114	0.317	0.216	0.134	0.090
273.0	ORIFICE	401	402	403	404	
	VALUE	0.126	0.097	0.076	0.064	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	3	P430-03	TF-556	2/ 4/81	35: 0:17:33	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1815.8	1191.0	533.8	3.345	105.1	564.8	15050.	208.4	607.4	0.50	1.182	0.701

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			975.1			1078.2	1138.7		1176.1		
	COEFFICIENT			-0.404			-0.211	-0.098		-0.028		
280.0	ORIFICE			278		279	280			281		
	PRESSURE			964.5		1154.3	1257.6			1207.1		
	COEFFICIENT			-0.424		-0.069	0.125			0.030		
277.5	ORIFICE							276		277		
	PRESSURE							1214.0		1106.0		
	COEFFICIENT							0.043		-0.159		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1190.0		1194.2
	COEFFICIENT						9.999	9.999		-0.002		0.006
260.0	ORIFICE	2918	2928									
	PRESSURE	1222.4	1215.3									
	COEFFICIENT	0.059	0.045									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1137.2	1136.3
	COEFFICIENT	-0.101	-0.102

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.165	0.172	0.129	0.081	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.114	0.317	0.216	0.134	0.090
273.0	ORIFICE	401	402	403	404	
	VALUE	0.126	0.097	0.076	0.064	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	4	P436-03	TF-556	2/ 4/81	35: 0:18: 0	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1826.6	1196.9	537.8	3.370	104.7	564.4	14927.	1214.4	612.2	0.50	1.190	0.697

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1375.5	1184.5	1196.0	1200.2	1149.1	1092.0									
	COEFF.	0.332	-0.023	-0.002	0.006	-0.089	-0.195									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1475.8	1195.4	1217.8	1212.5	1179.3	1063.3									
	COEFF.	0.519	-0.003	0.039	0.029	-0.033	-0.248									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							942.1	930.1	949.1	1058.1	1063.0	1092.9			
	COEFF.							-0.474	-0.496	-0.461	-0.258	-0.249	-0.193			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												1042.8	1059.3	1081.0	
	COEFF.												-0.287	-0.256	-0.215	
	ORIFICE	220	221	222												
278.0	PRESSURE	1499.5	1188.3	1217.3												
	COEFF.	0.563	-0.016	0.038												
	ORIFICE				223	224	225									
277.0	PRESSURE				1221.0	1187.1	1080.5									
	COEFF.				0.045	-0.018	-0.216									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													1063.0	1066.8	1074.9
	COEFF.													-0.249	-0.242	-0.227
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1504.3	1193.7	1231.8	1226.3	1206.0	1098.1									
	COEFF.	0.572	-0.006	0.065	0.055	0.017	-0.184									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1517.3	1192.8	1220.4	1225.7	1213.5	1123.5									
	COEFF.	0.596	-0.008	0.044	0.054	0.031	-0.136									

ARVIN/CALSPAN FIELD SERVICES, INC.
ASDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
37	4	P436-03	TF-556	2/ 4/81	35: 0:18: 0	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1826.6	1196.9	537.8	3.370	104.7	564.4	14927.	1214.4	612.2	0.50	1.190	0.697

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	1092.1			1183.7										1279.7
	COEFF.	-0.195			-0.025										0.154
290.0	ORIFICE	232	233					234							
	PRESSURE	1018.6	1146.4					1197.5							
	COEFF.	-0.331	-0.094					0.001							
288.0	ORIFICE	253	254					255							
	PRESSURE	934.8	1158.2					1202.1							
	COEFF.	-0.487	-0.072					0.010							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1204.9	1204.0	1205.6						
	COEFF.						0.015	0.013	0.016						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		1147.4					1212.2	1205.1	1206.4	1208.6				
	COEFF.		-0.092					0.029	0.015	0.018	0.022				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1225.4		1228.4	1229.2	1226.3	1232.6	1236.9	
	COEFF.							0.053		0.059	0.060	0.055	0.066	0.074	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1164.9	1187.4	1215.0						1215.7	1210.1	1209.6	
	COEFF.			-0.059	-0.018	0.034						0.035	0.025	0.024	
268.0	ORIFICE	216	217					218							
	PRESSURE	1048.1	1106.8					1171.9							
	COEFF.	-0.277	-0.168					-0.046							
260.0	ORIFICE	207			208										209
	PRESSURE	1040.5			1125.0										1137.7
	COEFF.	-0.291			-0.134										-0.110

DATE [illegible] PROGRAM NO. [illegible]
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
37	4	P436-03	TF-556	2/ 4/81	35: 0:18: 0	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TFR	SHX10+3
0.801	1826.6	1196.9	537.8	3.370	104.7	564.4	14927	1214.4	612.2	0.50	1.190	0.697

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			981.5			1085.4	1147.6		1185.0		
	COEFFICIENT			-0.400			-0.207	-0.092		-0.022		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				970.9		1164.0	1266.9		1216.6		
	COEFFICIENT				-0.420		-0.061	0.130		0.037		
277.5	ORIFICE							276		277		
	PRESSURE							1218.3		1149.6		
	COEFFICIENT							0.040		-0.068		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1211.5		1207.0
	COEFFICIENT						9.999	9.999		0.027		0.019
260.0	ORIFICE	291B	292B									
	PRESSURE	1231.5	1228.4									
	COEFFICIENT	0.064	0.059									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1144.8	1144.6
	COEFFICIENT	-0.097	-0.097

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.179	0.175	0.132	0.082		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.115	0.322	0.222	0.134	0.091	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.127	0.097	0.077	0.065		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE [illegible] PROJECT NO. [illegible]
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
37	5	P436-03	TF-556	2/ 4/81	35: 0:18:17	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1809.5	1186.8	532.0	3.340	104.2	563.9	15138.	1204.1	605.4	0.50	1.191	0.703

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	1363.5	1174.6	1186.1	1190.2	1139.2	1084.3									
	COEFF.	0.332	-0.023	-0.091	0.006	-0.089	-0.193									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	1463.2	1185.7	1207.8	1202.5	1169.8	1054.6									
	COEFF.	0.520	-0.002	0.039	0.030	-0.032	-0.248									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							936.3	923.9	941.2	1049.1	1054.3	1082.8			
	COEFF.							-0.471	-0.494	-0.462	-0.259	-0.249	-0.195			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												1034.4	1051.0	1072.0	
	COEFF.												-0.286	-0.255	-0.216	
278.0	ORIFICE	220	221	222												
	PRESSURE	1486.9	1178.9	1207.4												
	COEFF.	0.564	-0.015	0.039												
277.0	ORIFICE				223	224	225									
	PRESSURE				1211.1	1177.7	1071.6									
	COEFF.				0.046	-0.017	-0.216									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													1054.3	1058.2	1066.3
	COEFF.													-0.249	-0.242	-0.226
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	1491.5	1184.7	1222.1	1216.6	1196.3	1089.7									
	COEFF.	0.573	-0.004	0.066	0.056	0.018	-0.182									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1504.5	1183.8	1210.9	1216.2	1204.2	1115.2									
	COEFF.	0.597	-0.006	0.045	0.055	0.033	-0.135									

DATE [illegible]
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	5	P436-03	TF-556	2/ 4/81	35: 0:18:17	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1809.5	1186.8	532.0	3.340	104.2	563.9	15138.	1204.1	605.4	0.50	1.191	0.703

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	1084.5			1175.2										1271.9
	COEFF.	-0.192			-0.022										0.160
290.0	ORIFICE	232	233					234							
	PRESSURE	1011.3	1136.9					1187.7							
	COEFF.	-0.330	-0.094					0.002							
288.0	ORIFICE	253	254					255							
	PRESSURE	954.0	1149.0					1192.7							
	COEFF.	-0.438	-0.071					0.011							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1195.4	1194.4	1195.3						
	COEFF.						0.016	0.014	0.016						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		1138.2					1203.3	1195.0	1196.5	1198.7				
	COEFF.		-0.091					0.031	0.015	0.018	0.022				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1214.9		1219.0	1218.9	1216.0	1222.5	1227.7	
	COEFF.							0.053		0.061	0.060	0.055	0.067	0.077	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1154.9	1177.5	1205.0						1205.8	1199.8	1199.8	
	COEFF.			-0.060	-0.017	0.034						0.036	0.024	0.024	
268.0	ORIFICE	216	217					218							
	PRESSURE	1039.6	1098.0					1162.5							
	COEFF.	-0.277	-0.167					-0.046							
260.0	ORIFICE	207			208										209
	PRESSURE	1032.4			1116.2										1129.3
	COEFF.	-0.290			-0.133										-0.108

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	5	P436-03	TF-556	2/ 4/81	35: 0:18:17	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	OP	WA	TPR	SHX10+3
0.800	1809.5	1186.8	532.0	3.340	104.2	563.9	15138.	1204.1	605.4	0.50	1.191	0.703

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			974.4			1077.6	1139.4		1175.8		
	COEFFICIENT			-0.399			-0.205	-0.089		-0.021		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				964.1		1155.1	1256.6		1207.0		
	COEFFICIENT				-0.418		-0.059	0.131		0.038		
277.5	ORIFICE							276		277		
	PRESSURE							1207.6		1167.7		
	COEFFICIENT							0.039		-0.038		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1208.6		1198.6
	COEFFICIENT						9.999	9.999		0.041		0.022
260.0	ORIFICE	291B	292B									
	PRESSURE	1221.7	1219.9									
	COEFFICIENT	0.066	0.062									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1135.7	1135.7
	COEFFICIENT	-0.096	-0.096

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.163	0.174	0.129	0.081		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.112	0.315	0.219	0.134	0.088	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.125	0.097	0.077	0.063		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	6	P436-03	TF-556	2/ 4/81	35: 0:20:27	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.902	1810.3	1068.1	608.2	3.540	102.1	561.8	17720.	1065.7	724.6	0.50	1.188	0.703

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1279.9	1068.4	1080.5	1088.4	1025.3	968.3									
	COEFF.	0.348	0.000	0.020	0.033	-0.070	-0.164									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1395.3	1079.3	1105.0	1099.8	1068.2	942.1									
	COEFF.	0.538	0.018	0.061	0.052	0.000	-0.207									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							771.2	761.5	774.0	870.3	877.8	903.1			
	COEFF.							-0.488	-0.504	-0.484	-0.325	-0.313	-0.271			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												859.3	871.4	885.1	
	COEFF.												-0.343	-0.323	-0.301	
	ORIFICE	220	221	222												
278.0	PRESSURE	1422.1	1070.1	1102.7												
	COEFF.	0.582	0.003	0.057												
	ORIFICE				223	224	225									
277.0	PRESSURE				1109.2	1076.0	964.5									
	COEFF.				0.068	0.013	-0.170									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													899.2	902.7	911.2
	COEFF.													-0.278	-0.272	-0.258
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1426.6	1075.7	1119.1	1114.0	1095.1	986.3									
	COEFF.	0.589	0.012	0.084	0.075	0.044	-0.135									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1442.2	1072.2	1104.8	1112.2	1102.1	1016.3									
	COEFF.	0.615	0.007	0.060	0.073	0.056	-0.085									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEL	CART	
37	6	P436-03	TF-556	2/ 4/81	35: 0:20:27	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.902	1810.3	1068.1	608.2	3.540	102.1	561.8	17720.	1085.7	724.6	0.50	1.188	0.703

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	891.5			1066.9										1181.8
	COEFF.	-0.290			-0.002										0.187
290.0	ORIFICE	232	233					234							
	PRESSURE	825.5	975.2					1070.4							
	COEFF.	-0.399	-0.153					0.004							
288.0	ORIFICE	253	254					255							
	PRESSURE	932.7	982.3					1075.3							
	COEFF.	-0.223	-0.141					0.012							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1069.0	1077.0	1083.1						
	COEFF.						0.001	0.015	0.025						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		951.0					1104.6	1090.0	1092.6	1099.3				
	COEFF.		-0.193					0.060	0.036	0.040	0.051				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1108.4		1112.7	1113.7	1115.5	1122.3	1126.2	
	COEFF.							0.066		0.073	0.075	0.078	0.089	0.095	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1018.6	1060.3	1098.1						1094.5	1089.6	1089.8	
	COEFF.			-0.081	-0.013	0.049						0.043	0.035	0.036	
268.0	ORIFICE	216	217					218							
	PRESSURE	900.2	962.3					1027.4							
	COEFF.	-0.276	-0.174					-0.067							
260.0	ORIFICE	207			208										209
	PRESSURE	857.5			989.2										992.4
	COEFF.	-0.346			-0.130										-0.125

DATE. 2-27-81 PROJECT NO. 1478-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND-TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEL	CART	TRANSONIC 16T
37	6	P436-03	TF-556	2/ 4/81	35: 0:20:27	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.902	1810.3	1068.1	608.2	3.540	102.1	561.8	17720.	1085.7	724.6	0.50	1.188	0.703

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
	ORIFICE			282			283	284		285		
282.0	PRESSURE			781.8			889.5	930.7		1057.4		
	COEFFICIENT			-0.471			-0.294	-0.226		-0.018		
	ORIFICE				278		279	280		281		
280.0	PRESSURE				770.4		1023.2	1170.5		1095.5		
	COEFFICIENT				-0.490		-0.074	0.168		0.045		
	ORIFICE							276		277		
277.5	PRESSURE							1083.0		1157.7		
	COEFFICIENT							0.024		0.147		
	ORIFICE						271	272		273		274
276.0	PRESSURE						0.0	0.0		1109.7		1095.8
	COEFFICIENT						9.999	9.999		0.068		0.046
	ORIFICE	291B	292B									
260.0	PRESSURE	1119.2	1124.4									
	COEFFICIENT	0.084	0.093									

INSIDE PRESSURE ORIFICES

	ORIFICE	261	262
276.0	PRESSURE	1004.6	1005.7
	COEFFICIENT	-0.104	-0.103

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.222	0.256	0.198	0.123	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.094	0.439	0.260	0.166	0.095
273.0	ORIFICE	401	402	403	404	
	VALUE	0.193	0.092	0.073	0.068	

ACCELEROMETER RMS VALUES

1	2	3
0.8880	0.8880	0.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
37	7	P436-03	TF-556	2/ 4/81	35: 0:20:44	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.903	1784.0	1050.9	600.4	3.492	101.9	561.6	18114.	1068.2	715.8	0.50	1.191	0.713

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1262.2	1052.3	1064.3	1072.3	1008.1	951.6									
	COEFF.	0.352	0.002	0.022	0.036	-0.071	-0.165									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1375.7	1062.5	1088.0	1083.0	1051.9	927.2									
	COEFF.	0.541	0.019	0.062	0.054	0.002	-0.206									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							748.9	737.9	754.7	853.9	860.1	885.2			
	COEFF.							-0.503	-0.521	-0.493	-0.328	-0.318	-0.276			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												842.7	854.1	867.4	
	COEFF.												-0.347	-0.328	-0.306	
	ORIFICE	220	221	222												
278.0	PRESSURE	1402.5	1051.8	1085.1												
	COEFF.	0.586	0.001	0.057												
	ORIFICE				223	224	225									
277.0	PRESSURE				1091.8	1059.4	947.4									
	COEFF.				0.068	0.014	-0.172									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													880.1	883.7	891.9
	COEFF.													-0.285	-0.278	-0.265
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1407.3	1057.4	1101.1	1095.8	1077.8	969.8									
	COEFF.	0.594	0.011	0.084	0.075	0.045	-0.135									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1422.4	1053.5	1086.5	1093.7	1084.4	1000.0									
	COEFF.	0.619	0.004	0.059	0.071	0.056	-0.085									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
37	7	P436-03	TF-556	2/ 4/81	35: 0:20:44	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.903	1784.0	1050.9	600.4	3.492	101.9	561.6	18114.	1068.2	715.8	0.50	1.191	0.713

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	862.6			1046.8										1159.0
	COEFF.	-0.314			-0.007										0.180
290.0	ORIFICE	232	233					234							
	PRESSURE	806.8	956.0					1052.6							
	COEFF.	-0.407	-0.158					0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	916.4	963.0					1057.0							
	COEFF.	-0.224	-0.146					0.010							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1050.9	1059.3	1065.8						
	COEFF.						-0.000	0.014	0.025						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		930.1					1085.6	1073.4	1074.9	1080.7				
	COEFF.		-0.201					0.058	0.037	0.040	0.050				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1088.3		1093.9	1096.2	1098.0	1104.8	1108.3	
	COEFF.							0.062		0.072	0.075	0.078	0.090	0.096	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1000.6	1041.4	1079.9						1076.2	1071.2	1071.4	
	COEFF.			-0.084	-0.016	0.048						0.042	0.034	0.034	
268.0	ORIFICE	216	217					218							
	PRESSURE	877.3	944.3					1008.6							
	COEFF.	-0.289	-0.178					-0.070							
260.0	ORIFICE	207			208										209
	PRESSURE	838.6			970.7										971.5
	COEFF.	-0.354			-0.134										-0.132

DATE. 2-27-81 PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
37	7	P430-03	TF-556	2/ 4/81	35: 0:20:44	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.903	1784.0	1050.9	500.4	3.492	101.9	561.6	18114.	1068.2	715.8	0.50	1.191	0.713

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			761.5			869.1	906.4		1038.3		
	COEFFICIENT			-0.482			-0.303	-0.241		-0.021		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				749.2		1002.6	1151.3		1076.5		
	COEFFICIENT				-0.502		-0.081	0.167		0.043		
277.5	ORIFICE							276		277		
	PRESSURE							1067.4		1144.7		
	COEFFICIENT							0.027		0.156		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1087.7		1075.0
	COEFFICIENT						9.999	9.999		0.061		0.040
260.0	ORIFICE	291B	292B									
	PRESSURE	1100.7	1103.8									
	COEFFICIENT	0.083	0.088									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	985.6	986.0
	COEFFICIENT	-0.109	-0.108

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.230	0.255	0.198	0.124	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.093	0.431	0.258	0.165	0.093
273.0	ORIFICE	401	402	403	404	
	VALUE	0.191	0.088	0.072	0.066	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE: 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	8	P436-03	TF-556	2/ 4/81	35: 0:20:56	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.902	1760.5	1038.7	591.5	3.445	101.8	561.5	18397.	1055.7	704.8	0.50	1.192	0.723

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1246.3	1039.9	1051.8	1059.2	996.8	940.3									
	COEFF.	0.351	0.002	0.022	0.035	-0.071	-0.166									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1359.0	1050.2	1075.3	1070.9	1039.8	916.2									
	COEFF.	0.542	0.019	0.062	0.055	0.002	-0.207									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							741.6	731.9	749.2	845.9	851.5	876.4			
	COEFF.							-0.502	-0.519	-0.489	-0.326	-0.316	-0.274			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												834.5	844.6	859.2	
	COEFF.												-0.345	-0.328	-0.303	
	ORIFICE	220	221	222												
278.0	PRESSURE	1385.0	1039.8	1072.7												
	COEFF.	0.585	0.002	0.057												
	ORIFICE				223	224	225									
277.0	PRESSURE				1079.2	1047.1	936.6									
	COEFF.				0.069	0.014	-0.173									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													871.6	875.1	883.1
	COEFF.													-0.282	-0.277	-0.263
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1389.8	1045.6	1088.3	1083.3	1065.4	958.4									
	COEFF.	0.594	0.012	0.084	0.075	0.045	-0.136									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1404.7	1041.7	1074.3	1081.1	1071.7	987.8									
	COEFF.	0.619	0.005	0.060	0.072	0.056	-0.086									

DATE. 2-27-81 PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	8	P430-03	TF-556	2/ 4/81	35: 0:20:56	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.902	1760.5	1038.7	591.5	3.445	101.8	561.5	18397.	1055.7	704.8	0.50	1.192	0.723

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	851.3			1034.9										1145.8
	COEFF.	-0.317			-0.006										0.181
290.0	ORIFICE	232	233					234							
	PRESSURE	799.2	946.1					1040.5							
	COEFF.	-0.405	-0.156					0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	904.3	952.5					1045.3							
	COEFF.	-0.227	-0.146					0.011							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1039.2	1047.9	1054.0						
	COEFF.						0.001	0.016	0.026						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		920.6					1073.8	1061.5	1062.9	1068.6				
	COEFF.		-0.200					0.059	0.039	0.041	0.051				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1078.2		1082.2	1083.9	1085.7	1091.9	1095.8	
	COEFF.							0.067		0.074	0.077	0.080	0.090	0.097	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			990.8	1030.9	1068.9						1064.5	1059.4	1059.6	
	COEFF.			-0.081	-0.013	0.051						0.044	0.035	0.035	
268.0	ORIFICE	216	217					218							
	PRESSURE	870.3	934.3					997.7							
	COEFF.	-0.285	-0.176					-0.069							
260.0	ORIFICE	207			208										209
	PRESSURE	831.0			960.8										960.7
	COEFF.	-0.351			-0.132										-0.132

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	8	P436-03	TF-556	2/ 4/81	35: 0:20:56	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.902	1760.5	1038.7	591.5	3.445	101.8	561.5	1839[illegible]	1055.7	704.8	0.50	1.192	0.723

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			754.9			859.5	896.7		1026.9		
	COEFFICIENT			-0.480			-0.303	-0.240		-0.020		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				742.8		990.9	1137.5		1064.7		
	COEFFICIENT				-0.500		-0.081	0.167		0.044		
277.5	ORIFICE							276		277		
	PRESSURE							1053.9		1134.3		
	COEFFICIENT							0.026		0.162		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1073.7		1062.8
	COEFFICIENT						9.999	9.999		0.059		0.041
260.0	ORIFICE	291B	292B									
	PRESSURE	1088.2	1090.6									
	COEFFICIENT	0.084	0.088									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE						261			262		
	PRESSURE						974.5			974.9		
	COEFFICIENT						-0.108			-0.106		

KULITE RMS VALUES

287.0	ORIFICE			410	411		412	413	
	VALUE			0.219	0.248		0.194	0.122	
278.0	ORIFICE			405	406		407	408	409
	VALUE			0.091	0.428		0.254	0.161	0.092
273.0	ORIFICE			401	402		403	404	
	VALUE			0.189	0.087		0.070	0.065	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY	HR	MIN	SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	9	P436-03	TF-556	2/ 4/81	35:	0:	23:	37	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1556.6	729.0	617.5	3.207	102.5	562.2	26662.	743.7	812.9	0.50	1.245	0.775

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	970.5	759.1	766.8	770.3	771.7	700.1									
	COEFF.	0.391	0.049	0.061	0.067	0.069	-0.047									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1094.8	745.5	809.0	789.4	790.3	688.4									
	COEFF.	0.592	0.027	0.130	0.098	0.099	-0.066									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							443.2	420.5	412.3	432.8	424.8	450.1			
	COEFF.							-0.463	-0.500	-0.513	-0.480	-0.493	-0.452			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												425.1	433.1	449.3	
	COEFF.												-0.492	-0.479	-0.453	
	ORIFICE	220	221	222												
278.0	PRESSURE	1116.3	741.3	795.4												
	COEFF.	0.627	0.020	0.108												
	ORIFICE				223	224	225									
277.0	PRESSURE				794.4	765.7	729.2									
	COEFF.				0.106	0.059	0.000									
	ORIFICE												*291*	*292*	*293*	
275.0	PRESSURE												474.6	485.1	501.6	
	COEFF.												-0.412	-0.395	-0.368	
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1120.4	722.8	794.8	787.4	781.4	753.2									
	COEFF.	0.634	-0.010	0.107	0.094	0.085	0.039									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1133.4	746.1	761.3	796.9	799.0	776.0									
	COEFF.	0.655	0.028	0.052	0.110	0.112	0.076									

DATE: [illegible] PROJECT NO. [illegible]
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
37	9	P436-03	TF-556	2/ 4/81	35: 0:23:37	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1556.6	729.0	617.5	3.207	102.5	562.2	26562.	743.7	812.9	0.50	1.245	0.775

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	312.1			579.3										771.7
	COEFF.	-0.675			-0.242										0.069
290.0	ORIFICE	232	233					234							
	PRESSURE	355.0	435.2					635.9							
	COEFF.	-0.606	-0.476					-0.151							
288.0	ORIFICE	253	254					255							
	PRESSURE	599.3	493.3					641.0							
	COEFF.	-0.210	-0.382					-0.143							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						645.7	646.1	648.4						
	COEFF.						-0.135	-0.134	-0.130						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		523.8					647.3	653.9	658.3	664.5				
	COEFF.		-0.332					-0.132	-0.122	-0.115	-0.104				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							674.3		680.1	682.7	697.5	718.1	737.4	
	COEFF.							-0.089		-0.079	-0.075	-0.051	-0.018	0.014	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			642.0	661.0	685.6						678.0	674.6	685.4	
	COEFF.			-0.141	-0.110	-0.070						-0.083	-0.088	-0.071	
268.0	ORIFICE	216	217					218							
	PRESSURE	409.5	573.9					634.3							
	COEFF.	-0.517	-0.251					-0.153							
260.0	ORIFICE	207			208										209
	PRESSURE	511.8			606.6										588.9
	COEFF.	-0.352			-0.198										-0.227

DATE [illegible] PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	9	P436-03	TF-556	2/ 4/81	35: 0:23:37	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1556.6	729.0	617.5	3.207	102.5	562.2	26662.	743.7	812.9	0.50	1.245	0.775

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			389.1			391.5	469.9		575.7		
	COEFFICIENT			-0.550			-0.547	-0.420		-0.248		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				386.3		560.0	708.1		644.8		
	COEFFICIENT				-0.555		-0.274	-0.034		-0.138		
277.5	ORIFICE							276		277		
	PRESSURE							724.8		826.8		
	COEFFICIENT							-0.007		0.156		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		750.7		697.0
	COEFFICIENT						9.999	9.999		0.035		-0.052
260.0	ORIFICE	291B	292B									
	PRESSURE	791.7	799.9									
	COEFFICIENT	0.102	0.115									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	675.8	675.2
	COEFFICIENT	-0.086	-0.087

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.040	0.046	0.116	0.129	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.054	0.241	0.138	0.133	0.115
273.0	ORIFICE	401	402	403	404	
	VALUE	0.094	0.063	0.066	0.059	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE [illegible] PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
37	10	P43G-03	TF-556	2/ 4/81	35: 0:24: 4	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1539.3	721.1	610.6	3.176	101.8	561.5	26908.	735.6	803.7	0.50	1.238	0.784

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	958.6	746.2	753.5	764.9	759.6	690.0									
	COEFF.	0.389	0.041	0.053	0.072	0.063	-0.051									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	1080.7	733.6	798.9	775.5	783.3	680.4									
	COEFF.	0.589	0.020	0.128	0.089	0.102	-0.067									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							438.8	415.9	407.5	428.9	421.4	447.2			
	COEFF.							-0.462	-0.500	-0.514	-0.479	-0.491	-0.449			
282.0	ORIFICE													*301*	*302*	*303*
	PRESSURE													421.3	429.6	446.2
	COEFF.													-0.491	-0.477	-0.450
278.0	ORIFICE	220	221	222												
	PRESSURE	1103.0	730.4	783.6												
	COEFF.	0.626	0.015	0.102												
277.0	ORIFICE				223	224	225									
	PRESSURE				785.7	759.1	721.7									
	COEFF.				0.106	0.062	0.001									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													471.9	482.1	498.5
	COEFF.													-0.408	-0.391	-0.365
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	1107.7	718.7	790.5	776.3	772.0	746.3									
	COEFF.	0.633	-0.004	0.114	0.090	0.083	0.041									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1120.0	748.1	750.9	791.2	784.2	766.5									
	COEFF.	0.653	0.044	0.049	0.115	0.103	0.074									

DATE [illegible] PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
37	10	P43G-03	TF-556	2/ 4/81	35: 0:24: 4	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1539.3	721.1	610.6	3.176	101.8	561.5	26908.	735.6	803.7	0.50	1.238	0.784

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	309.9			589.5										767.9
	COEFF.	-0.673			-0.215										0.077
290.0	ORIFICE	232	233					234							
	PRESSURE	352.9	440.9					640.4							
	COEFF.	-0.603	-0.459					-0.132							
288.0	ORIFICE	253	254					255							
	PRESSURE	564.2	492.2					638.7							
	COEFF.	-0.257	-0.375					-0.135							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						640.2	641.9	643.6						
	COEFF.						-0.132	-0.130	-0.127						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		525.5					643.2	650.2	655.2	661.8				
	COEFF.		-0.320					-0.127	-0.116	-0.108	-0.097				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							669.5		675.9	678.0	692.0	714.8	734.1	
	COEFF.							-0.084		-0.074	-0.070	-0.047	-0.010	0.021	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			638.0	656.8	679.8						676.1	673.6	686.2	
	COEFF.			-0.136	-0.105	-0.068						-0.074	-0.078	-0.057	
268.0	ORIFICE	216	217					218							
	PRESSURE	411.3	571.5					632.3							
	COEFF.	-0.507	-0.245					-0.145							
260.0	ORIFICE	207			208										209
	PRESSURE	513.5			601.4										592.1
	COEFF.	-0.340			-0.196										-0.211

DATE. [illegible] PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	10	P43G-03	TF-556	2/ 4/81	35: 0:24: 4	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1539.3	721.1	610.6	3.176	101.8	561.5	26908.	735.6	803.7	0.50	1.238	0.784

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
	ORIFICE			282			283	284		285		
282.0	PRESSURE			387.5			385.8	463.8		573.1		
	COEFFICIENT			-0.546			-0.549	-0.421		-0.242		
	ORIFICE				278		279	280		281		
280.0	PRESSURE				385.0		560.5	702.0		638.0		
	COEFFICIENT				-0.550		-0.263	-0.031		-0.136		
	ORIFICE							276		277		
277.5	PRESSURE							716.6		788.4		
	COEFFICIENT							-0.007		0.110		
	ORIFICE						271	272		273		274
276.0	PRESSURE						0.0	0.0		741.9		707.3
	COEFFICIENT						9.999	9.999		0.034		-0.023
	ORIFICE	291B	292B									
260.0	PRESSURE	784.9	793.5									
	COEFFICIENT	0.105	0.119									

INSIDE PRESSURE ORIFICES

	ORIFICE						261			262		
276.0	PRESSURE						669.8			669.6		
	COEFFICIENT						-0.084			-0.084		

KULITE RMS VALUES

287.0	ORIFICE				410	411			412		413	
	VALUE				0.109	0.045			0.117		0.130	
278.0	ORIFICE				405	406			407		408	409
	VALUE				0.054	0.237			0.136		0.130	0.113
273.0	ORIFICE				401	402			403		404	
	VALUE				0.093	0.062			0.066		0.058	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	11	P436-03	TF-556	2/ 4/81	35: 0:24:17	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.101	1536.0	718.6	609.6	3.171	101.7	561.4	26986.	733.1	802.9	0.50	1.239	0.785

MODEL	TRAJECTORY	ALPHA	BETA	SPEED	BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0	

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	955.6	744.1	751.6	762.4	757.1	688.0									
	COEFF.	0.389	0.042	0.054	0.072	0.063	-0.050									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	1078.0	731.7	796.6	773.6	781.4	677.7									
	COEFF.	0.590	0.022	0.128	0.090	0.103	-0.067									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							438.0	414.9	406.5	427.0	419.8	445.5			
	COEFF.							-0.460	-0.498	-0.512	-0.478	-0.490	-0.448			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												419.8	427.7	444.1	
	COEFF.												-0.490	-0.477	-0.450	
278.0	ORIFICE	220	221	222												
	PRESSURE	1100.2	729.3	781.4												
	COEFF.	0.626	0.018	0.103												
277.0	ORIFICE				223	224	225									
	PRESSURE				783.0	756.7	719.5									
	COEFF.				0.106	0.062	0.001									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													469.9	480.2	496.5
	COEFF.													-0.408	-0.391	-0.364
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	1104.6	716.6	787.4	773.5	769.5	743.8									
	COEFF.	0.633	-0.003	0.113	0.090	0.083	0.041									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1117.2	745.3	748.4	789.9	782.1	764.5									
	COEFF.	0.654	0.044	0.049	0.117	0.104	0.075									

DATE: 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOEF	SET	CART	
37	11	P436-03	TF-556	2/ 4/81	35: 0:24:17	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.101	1536.0	718.6	609.6	3.171	101.7	561.4	26986.	733.1	802.9	0.50	1.239	0.785

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-I 900ST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	308.4			586.6										765.1
	COEFF.	-0.673			-0.216										0.076
290.0	ORIFICE	232	233					234							
	PRESSURE	350.8	438.5					637.0							
	COEFF.	-0.603	-0.459					-0.134							
288.0	ORIFICE	253	254					255							
	PRESSURE	549.9	490.0					635.9							
	COEFF.	-0.277	-0.375					-0.136							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						638.3	639.4	641.7						
	COEFF.						-0.132	-0.130	-0.126						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		522.9					640.9	647.9	652.4	658.6				
	COEFF.		-0.321					-0.127	-0.116	-0.109	-0.098				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							667.0		673.6	676.2	691.8	712.3	731.8	
	COEFF.							-0.085		-0.074	-0.070	-0.044	-0.010	0.022	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			635.5	654.2	677.1						673.4	670.9	683.2	
	COEFF.			-0.136	-0.106	-0.068						-0.074	-0.078	-0.058	
268.0	ORIFICE	216	217					218							
	PRESSURE	409.4	569.7					629.2							
	COEFF.	-0.507	-0.244					-0.147							
260.0	ORIFICE	207			208										209
	PRESSURE	511.3			599.6										589.3
	COEFF.	-0.340			-0.195										-0.212

DATE: 3-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
37	11	P436-03	TF-556	2/ 4/81	35: 0:24:17	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.101	1536.0	718.6	609.6	3.171	101.7	561.4	26986.	733.1	802.9	0.50	1.239	0.785

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			385.4			383.6	462.0		570.4		
	COEFFICIENT			-0.547			-0.550	-0.421		-0.243		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				383.0		558.0	699.8		635.4		
	COEFFICIENT				-0.551		-0.263	-0.031		-0.136		
277.5	ORIFICE							276		277		
	PRESSURE							714.3		772.6		
	COEFFICIENT							-0.007		0.069		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		738.3		704.3
	COEFFICIENT						9.999	9.999		0.036		-0.024
260.0	ORIFICE	291B	292B									
	PRESSURE	782.3	790.9									
	COEFFICIENT	0.104	0.119									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	667.4	667.3
	COEFFICIENT	-0.084	-0.084

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.038	0.044	0.116	0.129		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.054	0.241	0.135	0.131	0.112	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.093	0.061	0.066	0.057		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE: [illegible] PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	12	P43G-03	TF-556	2/ 4/81	35: 0:27:36	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.248	1458.4	564.7	615.4	3.035	101.2	560.9	32290.	577.9	880.5	0.50	1.264	0.784

MODEL	TRAJECTORY	ALPHA	BETA	SPEED-BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	812.6	614.0	632.4	623.5	622.7	608.5									
	COEFF.	0.403	0.080	0.110	0.096	0.094	0.071									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	937.3	494.2	650.4	645.4	625.5	586.7									
	COEFF.	0.605	-0.114	0.139	0.131	0.099	0.036									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							369.2	353.4	343.3	321.2	309.2	320.4			
	COEFF.							-0.318	-0.343	-0.360	-0.396	-0.415	-0.397			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												302.6	303.0	317.6	
	COEFF.												-0.426	-0.425	-0.401	
278.0	ORIFICE	220	221	222												
	PRESSURE	951.7	506.2	627.8												
	COEFF.	0.629	-0.095	0.103												
277.0	ORIFICE				223	224	225									
	PRESSURE				635.9	630.3	616.5									
	COEFF.				0.116	0.107	0.084									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													329.2	332.4	339.6
	COEFF.													-0.383	-0.377	-0.366
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	959.8	490.9	647.9	628.6	631.8	620.1									
	COEFF.	0.642	-0.120	0.135	0.104	0.109	0.090									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	974.7	462.7	605.7	607.7	622.3	618.6									
	COEFF.	0.666	-0.166	0.067	0.070	0.094	0.088									

DATE, [illegible] PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
37	12	P436-03	TF-556	2/ 4/81	35: 0:27:36	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA.	TPR	SHX10+3
1.248	1458.4	564.7	615.4	3.035	101.2	560.9	32290.	577.9	880.5	0.50	1.264	0.784

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	259.3			325.8										563.3
	COEFF.	-0.496			-0.388										-0.002
290.0	ORIFICE	232	233					234							
	PRESSURE	263.1	285.6					418.2							
	COEFF.	-0.490	-0.453					-0.238							
288.0	ORIFICE	253	254					255							
	PRESSURE	389.2	358.4					442.6							
	COEFF.	-0.269	-0.335					-0.198							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						448.2	447.4	449.5						
	COEFF.						-0.189	-0.191	-0.187						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		328.4					471.8	452.7	454.1	455.0				
	COEFF.		-0.384					-0.151	-0.182	-0.180	-0.178				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							493.4		498.3	498.2	487.6	504.2	521.8	
	COEFF.							-0.116		-0.108	-0.108	-0.125	-0.098	-0.070	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			423.6	441.1	479.2						490.2	483.0	483.8	
	COEFF.			-0.229	-0.201	-0.139						-0.121	-0.133	-0.131	
268.0	ORIFICE	216	217					218							
	PRESSURE	283.4	411.9					440.6							
	COEFF.	-0.457	-0.248					-0.202							
260.0	ORIFICE	207			208										209
	PRESSURE	348.8			450.4										407.2
	COEFF.	-0.351			-0.186										-0.256

DATE [illegible]
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
37	12	P436-03	TF-556	2/ 4/81	35: 0:27:36	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.248	1458.4	564.7	615.4	3.035	101.2	560.9	32290.	577.9	880.5	0.50	1.264	0.784

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			278.6			316.0	364.1		414.2		
	COEFFICIENT			-0.465			-0.404	-0.326		-0.245		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				276.1		315.9	456.8		499.9		
	COEFFICIENT				-0.469		-0.404	-0.175		-0.105		
277.5	ORIFICE							276		277		
	PRESSURE							553.9		594.0		
	COEFFICIENT							-0.018		0.048		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		582.1		485.6
	COEFFICIENT						9.999	9.999		0.028		-0.128
260.0	ORIFICE	291B	292B									
	PRESSURE	602.5	623.1									
	COEFFICIENT	0.062	0.095									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	538.1	537.6
	COEFFICIENT	-0.043	-0.044

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.0	0.032	0.043	0.106	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.023	0.099	0.135	0.089	0.107
273.0	ORIFICE	401	402	403	404	
	VALUE	0.057	0.030	0.039	0.041	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE, 2-27-81 MODEL 1 NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	13	P436-03	TF-556	2/ 4/81	35: 0:27:59	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.263	1497.4	568.5	634.3	3.109	102.0	561.7	32145.	582.0	915.4	0.50	1.274	0.763

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	804.7	604.9	630.8	620.3	629.1	607.8									
	COEFF.	0.372	0.057	0.098	0.082	0.096	0.062									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	948.3	478.1	647.6	645.7	631.1	601.2									
	COEFF.	0.599	-0.142	0.125	0.122	0.099	0.052									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							375.7	360.8	351.9	334.8	320.2	332.5			
	COEFF.							-0.304	-0.327	-0.341	-0.368	-0.391	-0.372			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												309.9	310.4	324.1	
	COEFF.												-0.408	-0.407	-0.385	
	ORIFICE	220	221	222												
278.0	PRESSURE	971.4	499.4	631.9												
	COEFF.	0.635	-0.109	0.100												
	ORIFICE				223	224	225									
277.0	PRESSURE				633.7	626.9	618.4									
	COEFF.				0.103	0.092	0.079									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													332.6	336.2	343.0
	COEFF.													-0.372	-0.366	-0.355
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	980.9	491.0	647.6	630.4	622.5	619.6									
	COEFF.	0.650	-0.122	0.125	0.098	0.085	0.081									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1000.1	458.7	618.2	606.7	615.0	620.2									
	COEFF.	0.680	-0.173	0.078	0.060	0.073	0.082									

DATE. 4-17-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELRI	PROD DATE	WINDOFF	SET	CART	
37	13	P436-03	TF-556	2/ 4/81	35: 0:27:59	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.263	1497.4	568.5	634.3	3.109	102.0	561.7	32145.	582.0	915.4	0.50	1.274	0.763

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	263.9			327.3										573.6
	COEFF.	-0.480			-0.380										0.008
290.0	ORIFICE	232	233					234							
	PRESSURE	276.2	280.6					421.2							
	COEFF.	-0.461	-0.454					-0.232							
288.0	ORIFICE	253	254					255							
	PRESSURE	393.1	355.6					440.8							
	COEFF.	-0.277	-0.336					-0.201							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						444.9	445.2	448.5						
	COEFF.						-0.195	-0.194	-0.189						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		326.7					469.5	453.3	454.5	455.3				
	COEFF.		-0.381					-0.156	-0.182	-0.180	-0.179				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							494.3		500.9	498.6	488.7	506.2	525.0	
	COEFF.							-0.117		-0.107	-0.110	-0.126	-0.098	-0.068	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			425.9	442.8	480.5						494.1	487.8	487.4	
	COEFF.			-0.225	-0.198	-0.139						-0.117	-0.127	-0.128	
268.0	ORIFICE	216	217					218							
	PRESSURE	291.6	422.5					441.2							
	COEFF.	-0.437	-0.230					-0.201							
260.0	ORIFICE	207			208										209
	PRESSURE	347.9			459.8										408.3
	COEFF.	-0.348			-0.171										-0.253

DATE. 2-27-81 PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
37	13	P430-03	TF-556	2/ 4/81	35: 0:27:59	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA.	TPR	SHX10+3
1.263	1497.4	568.5	634.3	3.109	102.0	561.7	32145.	582.0	915.4	0.50	1.274	0.763

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			283.1			319.8	361.3		410.4		
	COEFFICIENT			-0.450			-0.392	-0.327		-0.249		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				279.7		321.3	453.3		491.3		
	COEFFICIENT				-0.455		-0.390	-0.182		-0.122		
277.5	ORIFICE							276		277		
	PRESSURE							557.8		583.5		
	COEFFICIENT							-0.017		0.024		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		582.6		489.9
	COEFFICIENT						9.999	9.999		0.022		-0.124
260.0	ORIFICE	291B	292B									
	PRESSURE	606.3	623.7									
	COEFFICIENT	0.060	0.087									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	541.3	540.9
	COEFFICIENT	-0.043	-0.043

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.107	0.0	0.041	0.099	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.023	0.085	0.122	0.081	0.107
273.0	ORIFICE	401	402	403	404	
	VALUE	0.057	0.028	0.036	0.041	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE [illegible] PROJECT NO. [illegible]
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	14	P43G-03	TF-556	2/ 4/81	35: 0:28:13	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.245	1477.4	574.1	623.0	3.076	101.0	560.7	31934.	587.5	889.9	0.50	1.263	0.774

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	826.7	623.2	645.8	633.9	630.8	614.2									
	COEFF.	0.405	0.079	0.115	0.096	0.091	0.064									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	957.7	506.6	663.2	659.7	638.1	597.9									
	COEFF.	0.616	-0.108	0.143	0.137	0.103	0.038									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							373.4	358.5	347.7	327.9	315.5	327.6			
	COEFF.							-0.322	-0.346	-0.363	-0.395	-0.415	-0.396			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												308.1	309.2	324.2	
	COEFF.												-0.427	-0.425	-0.401	
	ORIFICE	220	221	222												
278.0	PRESSURE	968.8	514.0	641.3												
	COEFF.	0.634	-0.096	0.108												
	ORIFICE				223	224	225									
277.0	PRESSURE				649.5	640.9	629.3									
	COEFF.				0.121	0.107	0.089									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													333.4	337.1	344.6
	COEFF.													-0.386	-0.380	-0.368
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	976.3	500.8	660.0	637.5	640.0	629.8									
	COEFF.	0.646	-0.118	0.138	0.102	0.106	0.089									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	991.0	472.4	615.8	615.3	631.6	629.4									
	COEFF.	0.669	-0.163	0.067	0.066	0.092	0.089									

DATE [illegible] PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	14	P43G-03	TF-556	2/ 4/81	35: 0:28:13	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10*3
1.245	1477.4	574.1	623.0	3.076	101.0	560.7	31934.	587.5	889.9	0.50	1.263	0.774

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	262.4			326.8										572.4
	COEFF.	-0.500			-0.397										-0.003
290.0	ORIFICE	232	233					234							
	PRESSURE	269.0	286.7					424.0							
	COEFF.	-0.490	-0.461					-0.241							
288.0	ORIFICE	253	254					255							
	PRESSURE	384.8	362.7					451.1							
	COEFF.	-0.304	-0.339					-0.197							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						458.0	456.5	458.9						
	COEFF.						-0.186	-0.189	-0.185						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		332.9					479.7	460.7	462.2	463.8				
	COEFF.		-0.387					-0.151	-0.182	-0.180	-0.177				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							503.2		506.8	506.3	496.6	513.2	530.3	
	COEFF.							-0.114		-0.108	-0.109	-0.124	-0.098	-0.070	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			431.4	449.1	488.2						497.8	491.1	489.0	
	COEFF.			-0.229	-0.201	-0.138						-0.122	-0.133	-0.136	
268.0	ORIFICE	216	217					218							
	PRESSURE	290.3	419.6					451.6							
	COEFF.	-0.455	-0.248					-0.197							
260.0	ORIFICE	207			208										209
	PRESSURE	350.4			458.2										408.4
	COEFF.	-0.359			-0.186										-0.266

DATE [illegible] PROGRAM [illegible]
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	14	P436-03	TF-556	2/ 4/81	35: 0:28:13	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.245	1477.4	574.1	423.0	3.076	101.0	560.7	31934	587.5	889.9	0.50	1.263	0.774

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			282.0			320.3	368.1		417.8		
	COEFFICIENT			-0.469			-0.407	-0.331		-0.251		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				278.8		320.9	465.0		505.1		
	COEFFICIENT				-0.474		-0.406	-0.175		-0.111		
277.5	ORIFICE							276		277		
	PRESSURE							563.6		573.9		
	COEFFICIENT							-0.017		-0.010		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		583.0		491.6
	COEFFICIENT						9.999	9.999		0.014		-0.132
260.0	ORIFICE	291B	292B									
	PRESSURE	612.4	631.5									
	COEFFICIENT	0.062	0.092									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	547.1	546.6
	COEFFICIENT	-0.043	-0.044

KULITE RMS VALUES

237.0	ORIFICE	410	411	412	413	
	VALUE	0.0	0.051	0.044	0.107	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.025	0.106	0.137	0.093	0.110
273.0	ORIFICE	401	402	403	404	
	VALUE	0.057	0.033	0.041	0.042	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE, [illegible] PROGRAM NO. [illegible]
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
37	15	P436-03	TF-556	2/ 4/81	35: 0:30:53	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.396	1519.3	480.4	655.0	3.116	101.4	561.1	35713.	493.3	1026.0	0.50	1.304	0.675

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	733.7	373.9	541.8	536.5	535.0	519.1									
	COEFF.	0.387	-0.163	0.094	0.086	0.083	0.059									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	901.9	295.2	539.6	551.4	534.9	503.7									
	COEFF.	0.644	-0.283	0.090	0.108	0.083	0.036									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							339.8	326.1	315.1	298.9	287.4	301.7			
	COEFF.							-0.215	-0.236	-0.252	-0.277	-0.295	-0.273			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												267.6	265.6	277.3	
	COEFF.												-0.325	-0.328	-0.310	
	ORIFICE	220	221	222												
278.0	PRESSURE	926.7	327.8	549.3												
	COEFF.	0.682	-0.233	0.105												
	ORIFICE				223	224	225									
277.0	PRESSURE				546.4	537.0	523.1									
	COEFF.				0.101	0.086	0.065									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													267.5	268.0	271.0
	COEFF.													-0.325	-0.324	-0.320
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	935.0	318.5	564.5	558.2	537.0	526.4									
	COEFF.	0.694	-0.247	0.129	0.119	0.086	0.070									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	956.0	339.4	545.5	555.9	545.5	519.1									
	COEFF.	0.726	-0.215	0.099	0.115	0.099	0.059									

DATE. 2-27-81 PROGRAM NO. P430-04
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CARI	
37	15	P436-03	TF-556	2/ 4/81	35: 0:30:53	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.396	1519.3	480.4	655.0	3.116	101.4	561.1	35713.	493.3	1026.0	0.50	1.304	0.67[illegible]

MODEL	TRAJECTORY	ALPHA	BETA	SPEED	BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0	

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	239.5			272.6										477.7
	COEFF.	-0.368			-0.317										-0.004
290.0	ORIFICE	232	233					234							
	PRESSURE	246.4	251.0					311.8							
	COEFF.	-0.357	-0.350					-0.257							
288.0	ORIFICE	253	254					255							
	PRESSURE	345.8	294.6					354.3							
	COEFF.	-0.205	-0.284					-0.192							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						356.0	355.6	356.7						
	COEFF.						-0.190	-0.190	-0.189						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		275.5					365.6	362.4	361.7	362.0				
	COEFF.		-0.313					-0.175	-0.180	-0.181	-0.181				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							394.8		398.8	397.7	378.4	385.0	392.6	
	COEFF.							-0.131		-0.125	-0.126	-0.156	-0.146	-0.134	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			340.5	356.9	392.5						395.9	384.1	380.2	
	COEFF.			-0.214	-0.189	-0.134						-0.129	-0.147	-0.153	
268.0	ORIFICE	216	217					218							
	PRESSURE	257.9	323.3					367.9							
	COEFF.	-0.340	-0.240					-0.172							
260.0	ORIFICE	207			208										209
	PRESSURE	291.3			386.5										312.1
	COEFF.	-0.289			-0.143										-0.257

DATE: 02-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
37	15	P436-03	TF-556	2/ 4/81	35: 0:30:53	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA.	TPR	SHX10+3
1.396	1519.3	480.4	655.0	3.116	101.4	561.1	35713.	493.3	1026.0	0.50	1.304	0.675

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			242.2			272.2	304.3		331.1		
	COEFFICIENT			-0.364			-0.318	-0.269		-0.228		
280.0	ORIFICE			278		279	280			281		
	PRESSURE			236.7		276.3	347.7			385.9		
	COEFFICIENT			-0.372		-0.312	-0.203			-0.144		
277.5	ORIFICE						276			277		
	PRESSURE						468.1			497.6		
	COEFFICIENT						-0.019			0.029		
276.0	ORIFICE					271	272			273		274
	PRESSURE					0.0	0.0			510.0		390.9
	COEFFICIENT					9.999	9.999			0.045		-0.137
260.0	ORIFICE	291B	292B									
	PRESSURE	544.4	552.5									
	COEFFICIENT	0.098	0.110									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	468.1	468.4
	COEFFICIENT	-0.019	-0.018

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.0	0.0	0.037	0.030	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.021	0.055	0.090	0.066	0.103
273.0	ORIFICE	401	402	403	404	
	VALUE	0.055	0.024	0.025	0.031	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE: [illegible] PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOEF	SEI	CART	
37	16	P436-03	TF-556	2/ 4/81	35: 0:31:24	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.400	1516.7	476.6	653.9	3.107	101.7	561.4	35876.	489.5	1027.2	0.50	1.309	0.676

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	731.6	283.9	531.5	531.8	532.7	517.1									
	COEFF.	0.390	-0.295	0.084	0.084	0.086	0.062									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	897.5	292.8	528.5	548.0	526.4	497.9									
	COEFF.	0.644	-0.281	0.079	0.109	0.076	0.033									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							336.2	323.4	313.0	294.7	282.7	296.1			
	COEFF.							-0.215	-0.234	-0.250	-0.278	-0.297	-0.276			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												265.7	262.4	273.8	
	COEFF.												-0.323	-0.328	-0.310	
278.0	ORIFICE	220	221	222												
	PRESSURE	917.8	324.0	543.6												
	COEFF.	0.675	-0.233	0.102												
277.0	ORIFICE				223	224	225									
	PRESSURE				543.0	531.6	520.7									
	COEFF.				0.102	0.084	0.067									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													263.3	263.8	266.6
	COEFF.													-0.326	-0.325	-0.321
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	929.5	314.7	550.0	548.2	529.7	523.8									
	COEFF.	0.693	-0.248	0.112	0.109	0.081	0.072									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	950.3	335.2	532.6	546.5	541.2	518.5									
	COEFF.	0.724	-0.216	0.086	0.107	0.099	0.064									

DATE, 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	16	P436-03	TF-556	2/ 4/81	35: 0:31:24	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.400	1516.7	476.6	653.9	3.107	101.7	561.4	35876.	489.5	1027.2	0.50	1.309	0.676

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.66	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	238.9			266.9										462.7
	COEFF.	-0.364			-0.321										-0.021
290.0	ORIFICE	232	233					234							
	PRESSURE	243.0	250.3					305.1							
	COEFF.	-0.357	-0.346					-0.262							
288.0	ORIFICE	253	254					255							
	PRESSURE	339.3	291.1					349.1							
	COEFF.	-0.210	-0.284					-0.195							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						350.9	351.2	352.5						
	COEFF.						-0.192	-0.192	-0.190						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		272.6					360.7	358.2	356.6	357.2				
	COEFF.		-0.312					-0.177	-0.181	-0.184	-0.183				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							392.3		396.1	394.2	373.1	378.6	383.8	
	COEFF.							-0.129		-0.123	-0.126	-0.156	-0.150	-0.142	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			335.9	352.2	388.4						391.6	378.4	380.3	
	COEFF.			-0.215	-0.190	-0.135						-0.130	-0.150	-0.147	
268.0	ORIFICE	216	217					218							
	PRESSURE	257.2	318.2					365.2							
	COEFF.	-0.336	-0.242					-0.170							
260.0	ORIFICE	207			208										209
	PRESSURE	288.8			383.4										306.3
	COEFF.	-0.287			-0.142										-0.261

DATE: [illegible] PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
37	16	P436-03	TF-556	2/ 4/81	35: 0:31:24	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.400	1516.7	476.6	653.9	3.197	101.7	561.4	35876.	489.5	1027.2	0.50	1.309	0.676

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			238.1			269.3	298.4		325.3		
	COEFFICIENT			-0.365			-0.317	-0.273		-0.231		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				232.8		272.3	341.8		381.5		
	COEFFICIENT				-0.373		-0.312	-0.206		-0.146		
277.5	ORIFICE							276		277		
	PRESSURE							464.8		485.3		
	COEFFICIENT							-0.018		0.013		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		500.1		383.1
	COEFFICIENT						9.999	9.999		0.036		-0.143
260.0	ORIFICE	291B	292B									
	PRESSURE	532.2	544.7									
	COEFFICIENT	0.085	0.104									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	463.1	463.5
	COEFFICIENT	-0.021	-0.020

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.079	0.0	0.037	0.028	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.020	0.052	0.090	0.064	0.101
273.0	ORIFICE	401	402	403	404	
	VALUE	0.055	0.024	0.024	0.032	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	RN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	17	P436-03	TF-556	2/ 4/81	35: 0:32:26	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.403	1519.1	475.4	655.0	3.110	101.7	561.4	35940.	488.3	1030.8	0.50	1.326	0.639

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	732.4	261.3	519.2	538.2	532.2	521.2									
	COEFF.	0.392	-0.327	0.067	0.096	0.087	0.070									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	892.7	291.2	503.8	551.5	528.8	508.3									
	COEFF.	0.637	-0.281	0.043	0.116	0.082	0.050									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							337.6	324.6	314.2	295.0	282.8	296.9			
	COEFF.							-0.210	-0.230	-0.246	-0.275	-0.294	-0.273			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												264.9	263.6	274.9	
	COEFF.												-0.321	-0.323	-0.306	
278.0	ORIFICE	220	221	222												
	PRESSURE	909.9	315.4	504.1												
	COEFF.	0.663	-0.244	0.044												
277.0	ORIFICE				223	224	225									
	PRESSURE				540.7	525.6	519.7									
	COEFF.				0.100	0.077	0.068									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													262.3	262.9	266.2
	COEFF.													-0.325	-0.324	-0.319
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	915.7	308.0	526.0	535.3	527.6	521.7									
	COEFF.	0.672	-0.256	0.077	0.091	0.080	0.071									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	934.9	328.7	511.6	527.8	523.9	520.1									
	COEFF.	0.701	-0.224	0.055	0.080	0.074	0.068									

DATE. [illegible]
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	17	P436-03	TF-556	2/ 4/81	35: 0:32:26	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.403	1519.1	475.4	655.0	3.110	101.7	561.4	35940.	488.3	1030.8	0.50	1.326	0.639

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	239.1			263.5										441.0
	COEFF.	-0.361			-0.324										-0.053
290.0	ORIFICE	232	233					234							
	PRESSURE	243.0	248.2					305.6							
	COEFF.	-0.355	-0.347					-0.259							
288.0	ORIFICE	253	254					255							
	PRESSURE	327.4	290.7					349.3							
	COEFF.	-0.226	-0.282					-0.193							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						352.3	351.7	352.4						
	COEFF.						-0.188	-0.189	-0.188						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		271.2					359.1	355.7	356.2	355.5				
	COEFF.		-0.312					-0.178	-0.183	-0.182	-0.183				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							392.6		396.0	394.0	370.8	374.5	375.3	
	COEFF.							-0.126		-0.121	-0.124	-0.160	-0.154	-0.153	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			337.8	354.1	390.7						389.4	374.6	373.4	
	COEFF.			-0.210	-0.185	-0.129						-0.131	-0.154	-0.156	
268.0	ORIFICE	216	217					218							
	PRESSURE	255.5	317.2					367.6							
	COEFF.	-0.336	-0.242					-0.165							
260.0	ORIFICE	207			208										209
	PRESSURE	286.9			383.5										304.2
	COEFF.	-0.288			-0.140										-0.261

DATE: [illegible] PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	17	P43G-03	TF-556	2/ 4/81	35: 0:32:26	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.403	1519.1	475.4	655.0	3.110	101.7	561.4	35940.	488.3	1030.8	0.50	1.326	0.639

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 800ST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			236.8			270.2	299.9		323.6		
	COEFFICIENT			-0.364			-0.313	-0.268		-0.232		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				231.3		271.3	341.5		381.2		
	COEFFICIENT				-0.373		-0.312	-0.204		-0.144		
277.5	ORIFICE							276		277		
	PRESSURE							464.9		463.5		
	COEFFICIENT							-0.016		-0.018		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		490.7		375.6
	COEFFICIENT						9.999	9.999		0.023		-0.152
260.0	ORIFICE	2918	2928									
	PRESSURE	522.3	533.4									
	COEFFICIENT	0.072	0.088									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	459.7	459.5
	COEFFICIENT	-0.024	-0.024

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.0	0.0	0.038	0.030	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.020	0.054	0.092	0.061	0.102
273.0	ORIFICE	401	402	403	404	
	VALUE	0.055	0.024	0.024	0.031	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. [illegible] PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	18	P436-03	TF-556	2/ 4/81	35: 0:32:54	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1513.5	475.3	652.5	3.038	101.9	561.6	35948.	488.1	1025.4	0.50	1.329	0.641

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	734.0	260.8	519.4	538.4	532.9	527.1									
	COEFF.	0.397	-0.329	0.068	0.097	0.088	0.080									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	890.1	289.8	501.6	553.9	531.5	512.3									
	COEFF.	0.636	-0.284	0.040	0.121	0.086	0.057									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							339.6	325.7	315.5	298.5	286.3	300.1			
	COEFF.							-0.208	-0.229	-0.245	-0.271	-0.290	-0.268			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												268.6	267.1	278.2	
	COEFF.												-0.317	-0.319	-0.302	
278.0	ORIFICE	220	221	222												
	PRESSURE	909.0	315.0	500.6												
	COEFF.	0.665	-0.246	0.039												
277.0	ORIFICE				223	224	225									
	PRESSURE				540.7	526.1	523.6									
	COEFF.				0.100	0.078	0.074									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													264.6	265.6	269.2
	COEFF.													-0.323	-0.321	-0.316
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	910.6	307.6	523.1	535.4	525.7	528.5									
	COEFF.	0.667	-0.257	0.073	0.092	0.077	0.082									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	927.6	326.4	503.9	527.9	521.7	523.0									
	COEFF.	0.693	-0.228	0.044	0.081	0.071	0.073									

DATE. [illegible] PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEL	CART	TRANSONIC 16T
37	18	P430-03	TF-556	2/ 4/81	35: 0:32:54	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1513.5	475.3	652.5	3.098	101.9	561.6	35948.	488.1	1025.4	0.50	1.329	0.641

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	242.1			264.9										438.6
	COEFF.	-0.357			-0.322										-0.056
290.0	ORIFICE	232	233					234							
	PRESSURE	246.0	249.2					309.0							
	COEFF.	-0.351	-0.346					-0.255							
288.0	ORIFICE	253	254					255							
	PRESSURE	324.9	293.0					352.1							
	COEFF.	-0.230	-0.279					-0.189							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						355.2	353.9	354.1						
	COEFF.						-0.184	-0.186	-0.186						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		273.3					361.6	357.9	356.9	357.0				
	COEFF.		-0.310					-0.174	-0.180	-0.181	-0.181				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							394.3		397.3	395.1	371.3	374.1	374.6	
	COEFF.							-0.124		-0.119	-0.123	-0.159	-0.155	-0.154	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			342.8	359.0	394.3						389.8	374.6	370.2	
	COEFF.			-0.203	-0.178	-0.124						-0.131	-0.154	-0.161	
268.0	ORIFICE	216	217					218							
	PRESSURE	256.7	320.1					369.3							
	COEFF.	-0.335	-0.238					-0.162							
260.0	ORIFICE	207			208										209
	PRESSURE	287.9			387.4										305.6
	COEFF.	-0.287			-0.135										-0.260

PAGE [illegible] PROJECT NO. [illegible]
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	18	P43G-03	TF-556	2/ 4/81	35: 0:32:54	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1513.5	475.3	652.5	3.098	101.9	561.6	35948.	486.1	1025.4	0.50	1.329	0.641

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			238.6			273.5	304.2		325.2		
	COEFFICIENT			-0.363			-0.309	-0.262		-0.230		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				232.8		275.2	348.2		383.9		
	COEFFICIENT				-0.372		-0.307	-0.195		-0.140		
277.5	ORIFICE							276		277		
	PRESSURE							465.4		456.6		
	COEFFICIENT							-0.015		-0.029		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		489.8		374.9
	COEFFICIENT						9.999	9.999		0.022		-0.154
260.0	ORIFICE	291B	292B									
	PRESSURE	522.5	533.1									
	COEFFICIENT	0.072	0.089									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	460.0	459.9
	COEFFICIENT	-0.023	-0.024

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.0	0.0	0.039	0.029	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.021	0.056	0.093	0.061	0.102
273.0	ORIFICE	401	402	403	404	
	VALUE	0.055	0.024	0.023	0.031	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-01
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	19	P436-03	TF-556	2/ 4/81	35: 0:33:24	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.398	1514.6	477.2	653.0	3.103	101.7	561.4	35850.	490.1	1024.5	0.50	1.330	0.641

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	735.8	261.8	521.2	540.6	536.6	528.4									
	COEFF.	0.396	-0.330	0.067	0.097	0.091	0.078									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	892.6	290.3	503.5	555.9	533.6	514.9									
	COEFF.	0.636	-0.286	0.040	0.121	0.086	0.058									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							340.1	326.8	316.6	300.2	287.9	301.5			
	COEFF.							-0.210	-0.230	-0.246	-0.271	-0.290	-0.269			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												268.9	267.6	278.7	
	COEFF.												-0.319	-0.321	-0.304	
278.0	ORIFICE	220	221	222												
	PRESSURE	911.2	315.9	501.7												
	COEFF.	0.665	-0.247	0.037												
277.0	ORIFICE				223	224	225									
	PRESSURE				542.1	527.4	524.8									
	COEFF.				0.099	0.077	0.073									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													265.5	266.4	270.0
	COEFF.													-0.324	-0.323	-0.317
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	912.3	308.5	525.2	536.3	527.3	530.4									
	COEFF.	0.666	-0.258	0.073	0.091	0.077	0.081									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	930.1	327.4	505.4	525.7	523.4	524.7									
	COEFF.	0.694	-0.229	0.043	0.074	0.071	0.073									

DATE, [illegible] PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
37	19	P436-03	TF-556	2/ 4/81	35: 0:33:24	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.398	1514.6	477.2	653.0	3.103	101.7	561.4	35850.	490.1	1024.5	0.50	1.330	0.641

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	243.5			265.4										439.1
	COEFF.	-0.358			-0.324										-0.058
290.0	ORIFICE	232	233					234							
	PRESSURE	246.8	250.3					310.2							
	COEFF.	-0.353	-0.348					-0.256							
288.0	ORIFICE	253	254					255							
	PRESSURE	323.5	294.0					353.1							
	COEFF.	-0.235	-0.281					-0.190							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						356.7	355.5	355.3						
	COEFF.						-0.185	-0.186	-0.187						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		274.1					362.9	358.4	358.0	357.8				
	COEFF.		-0.311					-0.175	-0.182	-0.183	-0.183				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							395.0		398.2	396.3	372.0	374.6	375.8	
	COEFF.							-0.126		-0.121	-0.124	-0.161	-0.157	-0.155	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			344.1	360.2	395.2						390.7	375.1	371.6	
	COEFF.			-0.204	-0.179	-0.126						-0.132	-0.156	-0.162	
268.0	ORIFICE	216	217					218							
	PRESSURE	258.0	320.9					370.5							
	COEFF.	-0.336	-0.239					-0.163							
260.0	ORIFICE	207			208										209
	PRESSURE	289.1			388.9										307.2
	COEFF.	-0.288			-0.135										-0.260

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	19	P436-03	TF-556	2/ 4/81	35: 0:33:24	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.398	1514.6	477.2	653.0	3.103	101.7	561.4	35850.	490.1	1024.5	0.50	1.330	0.641

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			239.4			274.2	304.6		325.8		
	COEFFICIENT			-0.364			-0.311	-0.264		-0.232		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				233.7		275.9	349.4		384.9		
	COEFFICIENT				-0.373		-0.308	-0.196		-0.141		
277.5	ORIFICE							276		277		
	PRESSURE							467.7		450.7		
	COEFFICIENT							-0.015		-0.041		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		489.7		375.3
	COEFFICIENT						9.999	9.999		0.019		-0.156
260.0	ORIFICE	291B	292B									
	PRESSURE	524.0	533.9									
	COEFFICIENT	0.072	0.087									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	461.3	460.9
	COEFFICIENT	-0.024	-0.025

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.074	0.0	0.040	0.030	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.021	0.057	0.093	0.061	0.102
273.0	ORIFICE	401	402	403	404	
	VALUE	0.055	0.023	0.024	0.031	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE [illegible] PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
37	20	P430-03	TF-556	2/ 4/81	35: 0:36:49	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1010.6	474.0	400.6	2.101	98.5	558.2	36005.	483.4	527.2	0.50	1.242	0.814

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	618.8	468.7	483.3	478.9	484.8	462.1									
	COEFF.	0.361	-0.013	0.023	0.012	0.027	-0.030									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	715.5	462.1	509.7	498.5	489.5	455.3									
	COEFF.	0.603	-0.030	0.089	0.061	0.039	-0.047									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							286.0	273.9	268.2	276.2	268.2	284.6			
	COEFF.							-0.469	-0.500	-0.514	-0.494	-0.514	-0.473			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												272.1	274.7	285.0	
	COEFF.												-0.504	-0.497	-0.472	
278.0	ORIFICE	220	221	222												
	PRESSURE	742.2	469.2	505.0												
	COEFF.	0.669	-0.012	0.077												
277.0	ORIFICE				223	224	225									
	PRESSURE				503.4	488.1	472.6									
	COEFF.				0.073	0.035	-0.004									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													294.9	301.4	310.5
	COEFF.													-0.447	-0.431	-0.408
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	755.4	473.2	525.9	510.9	502.3	486.0									
	COEFF.	0.702	-0.002	0.129	0.092	0.071	0.030									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	768.2	483.5	505.0	510.0	505.1	492.1									
	COEFF.	0.734	0.024	0.077	0.090	0.078	0.045									

DATE: [illegible] PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	20	P430-03	TF-556	2/ 4/81	35: 0:36:49	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1010.6	474.0	400.6	2.101	98.5	558.2	36005.	483.4	527.2	0.50	1.242	0.814

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	212.5			317.0										469.5
	COEFF.	-0.653			-0.392										-0.011
290.0	ORIFICE	232	233					234							
	PRESSURE	228.6	265.7					389.6							
	COEFF.	-0.613	-0.520					-0.211							
288.0	ORIFICE	253	254					255							
	PRESSURE	297.3	309.4					397.1							
	COEFF.	-0.441	-0.411					-0.192							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						407.5	406.8	407.9						
	COEFF.						-0.166	-0.168	-0.165						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		312.2					405.4	410.1	411.4	408.7				
	COEFF.		-0.404					-0.171	-0.160	-0.156	-0.163				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							429.6		432.5	433.0	438.0	452.8	462.6	
	COEFF.							-0.111		-0.104	-0.102	-0.090	-0.053	-0.028	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			396.8	407.7	429.6						427.1	423.2	426.4	
	COEFF.			-0.193	-0.166	-0.111						-0.117	-0.127	-0.119	
268.0	ORIFICE	216	217					218							
	PRESSURE	246.3	362.7					396.2							
	COEFF.	-0.568	-0.278					-0.194							
260.0	ORIFICE	207			208										209
	PRESSURE	310.5			383.4										357.7
	COEFF.	-0.408			-0.226										-0.290

ARNOLD ENGINEERING DEVELOPMENT CENTER
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
37	20	P43G-03	TF-556	2/ 4/81	35: 0:36:49	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1010.6	474.0	400.6	2.101	98.5	558.2	36005	483.4	527.2	0.50	1.242	0.81

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			243.4			259.5	296.2		359.3		
	COEFFICIENT			-0.576			-0.535	-0.444		-0.286		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				240.9		327.2	437.2		413.0		
	COEFFICIENT				-0.582		-0.367	-0.092		-0.152		
277.5	ORIFICE							276		277		
	PRESSURE							476.7		418.1		
	COEFFICIENT							0.007		-0.139		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		465.7		417.1
	COEFFICIENT						9.999	9.999		-0.021		-0.142
260.0	ORIFICE	2918	2928									
	PRESSURE	509.9	509.8									
	COEFFICIENT	0.090	0.089									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	437.0	436.0
	COEFFICIENT	-0.092	-0.095

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.0	0.0	0.064	0.076		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.034	0.157	0.093	0.074	0.073	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.073	0.038	0.041	0.040		

ACCELEROMETER RMS VALUES

1	2	3
0.0000	0.0000	0.0000

DATE: [illegible] PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
37	21	P436-03	TF-556	2/ 4/81	35: 0:36:55	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.057	983.9	485.8	379.8	2.034	98.0	557.7	35477.	495.0	488.9	0.50	1.230	0.836

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	631.8	496.5	507.2	505.9	495.7	460.4									
	COEFF.	0.384	0.028	0.056	0.053	0.026	-0.067									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	710.1	480.4	518.6	518.4	510.5	451.6									
	COEFF.	0.590	-0.014	0.086	0.086	0.065	-0.090									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							289.6	275.7	271.8	287.4	280.6	300.3			
	COEFF.							-0.517	-0.553	-0.563	-0.522	-0.540	-0.488			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												283.9	287.6	298.5	
	COEFF.												-0.532	-0.522	-0.493	
	ORIFICE	220	221	222												
278.0	PRESSURE	733.4	475.6	510.3												
	COEFF.	0.652	-0.027	0.064												
	ORIFICE				223	224	225									
277.0	PRESSURE				514.2	501.3	472.8									
	COEFF.				0.075	0.041	-0.034									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													309.9	317.2	327.2
	COEFF.													-0.463	-0.444	-0.418
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	742.6	484.2	527.8	514.5	514.2	490.0									
	COEFF.	0.676	-0.004	0.110	0.075	0.075	0.011									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	756.8	490.6	504.4	514.9	516.2	502.8									
	COEFF.	0.713	0.012	0.049	0.076	0.080	0.045									

DATA [illegible]
ARNOLD ENGINEERING DEVELOPMENT CENTER
AEDC DIVISION
PROPULSION WIND-TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOEF	SET	CART	TRANSONIC 16T
37	2)	P436-03	TF-556	2/ 4/81	35: 0:39:55	0	288	02-27-81	35/ 3	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX1043
1.057	983.9	485.8	379.8	2.034	98.0	557.7	35477.	495.0	488.9	0.50	1.230	0.836

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	214.1			350.8										493.5
	COEFF.	-0.716			-0.355										0.020
290.0	ORIFICE	232	233					234							
	PRESSURE	237.0	289.8					426.3							
	COEFF.	-0.655	-0.516					-0.157							
288.0	ORIFICE	253	254					255							
	PRESSURE	299.2	326.8					428.1							
	COEFF.	-0.491	-0.419					-0.152							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						435.4	439.6	442.1						
	COEFF.						-0.133	-0.122	-0.115						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		335.8					430.5	445.5	445.8	441.4				
	COEFF.		-0.395					-0.146	-0.106	-0.105	-0.117				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							454.2		456.2	458.3	468.9	482.6	490.2	
	COEFF.							-0.083		-0.078	-0.073	-0.045	-0.008	0.012	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			418.3	428.7	449.1						455.6	452.3	457.6	
	COEFF.			-0.178	-0.151	-0.097						-0.079	-0.088	-0.074	
268.0	ORIFICE	216	217					218							
	PRESSURE	261.4	377.8					414.8							
	COEFF.	-0.591	-0.284					-0.187							
260.0	ORIFICE	207			208										209
	PRESSURE	331.0			396.4										380.9
	COEFF.	-0.408			-0.235										-0.276

[illegible]
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
37	21	P436-03	TF-556	2/ 4/81	35: 0:36:55	0	288	02-27-81	35/ 3	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.057	983.9	485.8	379.8	2.034	98.0	557.7	35477.	495.0	488.9	0.50	1.230	0.836

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	0.0	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			254.5			265.8	303.4		386.3		
	COEFFICIENT			-0.609			-0.579	-0.480		-0.262		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				251.7		358.9	455.4		431.8		
	COEFFICIENT				-0.617		-0.334	-0.080		-0.142		
277.5	ORIFICE							276		277		
	PRESSURE							488.4		420.7		
	COEFFICIENT							0.007		-0.172		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		471.6		442.7
	COEFFICIENT						9.999	9.999		-0.038		-0.114
260.0	ORIFICE	2918	2928									
	PRESSURE	513.8	515.3									
	COEFFICIENT	0.074	0.077									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE						261			262		
	PRESSURE						445.0			444.2		
	COEFFICIENT						-0.107			-0.110		

KULITE RMS VALUES

287.0	ORIFICE			410	411			412		413		
	VALUE			0.023	0.0			0.107		0.087		
278.0	ORIFICE			405	406			407		408	409	
	VALUE			0.036	0.171			0.100		0.082	0.064	
273.0	ORIFICE			401	402			403		404		
	VALUE			0.075	0.042			0.042		0.040		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

ARNOLD ENGINEERING DEVELOPMENT CENTER
ARNOLD ENGINEERING DEVELOPMENT CENTER
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	OPT	CART	TRANSONIC 16T
40	1	P436-03	TF-556	2/ 4/81	35: 2:19:31	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+2
0.761	1448.7	987.5	399.9	2.622	101.3	561.0	19610.	1020.9	447.8	0.50	1.170	0.789

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 800ST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1059.5	875.8	923.5	958.3	936.6	903.0									
	COEFF.	0.180	-0.279	-0.160	-0.073	-0.127	-0.211									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1150.7	894.5	943.0	963.6	954.4	887.2									
	COEFF.	0.408	-0.233	-0.111	-0.060	-0.083	-0.251									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							806.5	808.5	811.0	895.5	898.3	916.2			
	COEFF.							-0.453	-0.448	-0.441	-0.230	-0.223	-0.178			
	ORIFICE													*301*	*302*	*303*
282.0	PRESSURE													883.4	895.8	911.2
	COEFF.													-0.260	-0.229	-0.191
	ORIFICE	220	221	222												
278.0	PRESSURE	1160.9	874.2	935.0												
	COEFF.	0.434	-0.283	-0.131												
	ORIFICE				223	224	225									
277.0	PRESSURE				969.4	959.8	896.2									
	COEFF.				-0.045	-0.069	-0.228									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													899.7	904.8	913.5
	COEFF.													-0.220	-0.207	-0.185
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1177.2	900.5	954.2	970.8	970.9	908.1									
	COEFF.	0.474	-0.218	-0.083	-0.042	-0.042	-0.199									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1189.0	909.2	953.8	972.9	975.3	926.3									
	COEFF.	0.504	-0.196	-0.084	-0.037	-0.031	-0.153									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
40	1	P436-03	TF-556	2/ 4/81	35: 2:19:31	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.761	1448.7	987.5	399.9	2.622	101.3	561.0	19610.	1000.9	447.8	0.50	1.170	0.789

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	913.7			979.6										1036.7
	COEFF.	-0.185			-0.020										0.123
290.0	ORIFICE	232	233					234							
	PRESSURE	863.9	953.4					988.3							
	COEFF.	-0.309	-0.085					0.002							
288.0	ORIFICE	253	254					255							
	PRESSURE	802.6	961.2					990.7							
	COEFF.	-0.462	-0.066					0.008							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						994.4	993.8	994.7						
	COEFF.						0.017	0.016	0.018						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		954.8					1000.0	994.4	995.3	995.9				
	COEFF.		-0.082					0.031	0.017	0.019	0.021				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1009.8		1012.1	1012.4	1007.6	1011.1	1013.9	
	COEFF.							0.056		0.061	0.062	0.050	0.059	0.066	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			995.6	1006.5	1016.3						996.6	992.2	992.7	
	COEFF.			0.020	0.047	0.072						0.023	0.012	0.013	
258.0	ORIFICE	216	217					218							
	PRESSURE	892.4	931.5					970.0							
	COEFF.	-0.238	-0.140					-0.044							
250.0	ORIFICE	207			208										209
	PRESSURE	893.1			943.4										938.1
	COEFF.	-0.236			-0.110										-0.124

DATE: 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
40	1	P436-03	TF-556	2/ 4/81	35: 2:19:31	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.761	1448.7	987.5	399.9	2.622	101.3	561.0	19610.	1000.9	447.8	0.50	1.170	0.788

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			856.5			921.0	952.1		971.2		
	COEFFICIENT			-0.328			-0.165	-0.089		-0.041		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				852.3		963.9	1028.5		992.1		
	COEFFICIENT				-0.338		-0.059	0.103		0.011		
277.5	ORIFICE							276		277		
	PRESSURE							1002.7		564.3		
	COEFFICIENT							0.038		-0.308		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		979.4		988.0
	COEFFICIENT						9.999	9.999		-0.020		0.001
260.0	ORIFICE	2918	2928									
	PRESSURE	1047.6	1025.6									
	COEFFICIENT	0.150	0.095									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	949.1	948.8
	COEFFICIENT	-0.096	-0.097

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.109	0.091	0.074	0.042	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.062	0.172	0.131	0.078	0.064
273.0	ORIFICE	401	402	403	404	
	VALUE	0.111	0.067	0.049	0.043	

ACCELEROMETER RMS VALUES

1	2	3
[illegible]	[illegible]	[illegible]

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
40	2	P436-03	TF-556	2/ 4/81	35: 2:19:40	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.775	1477.2	992.7	417.9	2.700	101.5	561.2	19485.	006.4	470.8	0.50	1.170	0.774

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1068.1	875.7	925.4	962.2	937.8	903.7									
	COEFF.	0.181	-0.280	-0.161	-0.073	-0.131	-0.213									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1164.9	890.9	943.9	966.7	957.9	886.5									
	COEFF.	0.412	-0.243	-0.117	-0.062	-0.083	-0.254									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							800.3	800.1	805.1	894.0	897.7	917.6			
	COEFF.							-0.460	-0.461	-0.449	-0.236	-0.227	-0.180			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												882.6	896.8	913.4	
	COEFF.												-0.263	-0.230	-0.190	
	ORIFICE	220	221	222												
278.0	PRESSURE	1176.2	864.0	936.8												
	COEFF.	0.439	-0.308	-0.134												
	ORIFICE				223	224	225									
277.0	PRESSURE				974.1	964.0	896.8									
	COEFF.				-0.045	-0.069	-0.229									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													899.9	905.6	915.1
	COEFF.													-0.222	-0.208	-0.186
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1193.0	901.5	957.3	975.1	975.7	910.2									
	COEFF.	0.479	-0.218	-0.085	-0.042	-0.041	-0.197									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1205.0	911.1	957.0	976.5	979.9	928.6									
	COEFF.	0.508	-0.195	-0.085	-0.039	-0.031	-0.153									

[illegible] PROJECT NO. P-10-03
ARVIN/CALSPAN FIELD SERVICES, INC.
ASDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOWF	SHT	CART	
40	2	P430-03	TF-556	2/ 4/81	35: 2:19:40	0	288	02-27-81	39/)	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX
0.775	1477.2	992.7	417.9	2.700	101.5	561.2	19485.	1006.4	470.8	0.50	1.170	0.774

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	915.3			984.3										1043.1
	COEFF.	-0.185			-0.020										0.121
290.0	ORIFICE	232	233				234								
	PRESSURE	862.1	956.6				992.5								
	COEFF.	-0.312	-0.086				-0.000								
288.0	ORIFICE	253	254				255								
	PRESSURE	811.5	964.9				996.0								
	COEFF.	-0.434	-0.066				0.008								
287.0	ORIFICE					*316*	*317*	*318*							
	PRESSURE					1000.1	998.8	999.7							
	COEFF.					0.018	0.015	0.017							
285.0	ORIFICE		251				252	*319*	*320*	*321*					
	PRESSURE		959.9				1005.7	999.3	1000.1	1000.4					
	COEFF.		-0.078				0.031	0.016	0.018	0.018					
282.0	ORIFICE						*304*		*305*	*306*	*307*	*308*	*309*		
	PRESSURE						1016.1		1018.0	1017.7	1012.4	1016.4	1019.8		
	COEFF.						0.056		0.061	0.060	0.047	0.057	0.065		
275.0	ORIFICE			*294*	*295*	*296*					*297*	*298*	*299*		
	PRESSURE			1002.2	1013.4	1024.3					1002.1	997.3	999.1		
	COEFF.			0.023	0.049	0.076					0.023	0.011	0.015		
268.0	ORIFICE	216	217				218								
	PRESSURE	892.9	932.0				973.9								
	COEFF.	-0.239	-0.144				-0.045								
260.0	ORIFICE	207			208										209
	PRESSURE	892.9			940.2										943.1
	COEFF.	-0.239			-0.111										-0.126

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
40	2	P436-03	TF-556	2/ 4/81	35: 2:19:40	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.775	1477.2	992.7	417.9	2.700	101.5	561.2	19485.	906.4	470.8	0.50	1.170	0.774

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			854.7			913.7	951.2		975.3		
	COEFFICIENT			-0.330			-0.189	-0.099		-0.042		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				850.0		966.6	1034.6		996.8		
	COEFFICIENT				-0.342		-0.062	0.100		0.009		
277.5	ORIFICE							276		277		
	PRESSURE							1008.3		876.4		
	COEFFICIENT							0.037		-0.278		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		988.8		993.2
	COEFFICIENT						9.999	9.999		-0.010		0.001
260.0	ORIFICE	291B	292B									
	PRESSURE	1056.1	1034.6									
	COEFFICIENT	0.152	0.100									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	952.0	951.6
	COEFFICIENT	-0.097	-0.098

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.118	0.098	0.077	0.047	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.070	0.160	0.137	0.081	0.067
273.0	ORIFICE	401	402	403	404	
	VALUE	0.118	0.075	0.053	0.046	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE [illegible] PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	1	P436-03	TF-556	2/ 4/81	35: 2:26:39	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.808	1872.5	1218.5	557.1	3.508	99.8	559.5	14484.	1236.5	636.0	0.50	1.179	0.840

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	1320.6	1065.3	1127.8	1177.8	1141.4	1100.8									
	COEFF.	0.183	-0.275	-0.163	-0.073	-0.138	-0.211									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	1458.6	999.6	1117.9	1185.8	1174.8	1073.1									
	COEFF.	0.431	-0.393	-0.181	-0.059	-0.078	-0.261									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							966.1	957.2	974.5	1080.9	1086.2	1111.1			
	COEFF.							-0.453	-0.469	-0.438	-0.247	-0.237	-0.193			
282.0	ORIFICE													*301*	*302*	*303*
	PRESSURE													1066.4	1086.4	1111.6
	COEFF.													-0.273	-0.237	-0.192
278.0	ORIFICE	220	221	222												
	PRESSURE	1475.2	938.5	1150.9												
	COEFF.	0.461	-0.503	-0.121												
277.0	ORIFICE				223	224	225									
	PRESSURE				1196.5	1182.3	1091.9									
	COEFF.				-0.039	-0.065	-0.227									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													1088.7	1097.3	1111.3
	COEFF.													-0.233	-0.217	-0.192
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	1498.6	1050.7	1171.8	1196.5	1198.3	1110.7									
	COEFF.	0.503	-0.301	-0.084	-0.039	-0.036	-0.193									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1514.7	1107.5	1168.1	1198.6	1203.2	1135.8									
	COEFF.	0.532	-0.199	-0.090	-0.036	-0.027	-0.148									

DATE [illegible]
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	1	P436-03	TF-556	2/ 4/81	35: 2:26:39	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1872.5	1218.5	557.1	3.508	99.8	559.5	14484.	336.5	636.0	0.50	1.179	0.840

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZW	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	1115.4			1210.7										1289.4
	COEFF.	-0.185			-0.014										0.127
290.0	ORIFICE	232	233					234							
	PRESSURE	1040.2	1168.5					1217.9							
	COEFF.	-0.320	-0.090					-0.001							
288.0	ORIFICE	253	254					255							
	PRESSURE	1067.6	1179.0					1226.9							
	COEFF.	-0.271	-0.071					0.015							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1232.2	1230.7	1233.3						
	COEFF.						0.025	0.022	0.027						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		1182.4					1243.3	1233.0	1234.3	1235.2				
	COEFF.		-0.065					0.045	0.026	0.028	0.030				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1254.9		1259.8	1260.0	1251.6	1256.4	1259.7	
	COEFF.							0.065		0.074	0.074	0.060	0.068	0.074	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1249.2	1266.6	1275.8						1231.8	1225.7	1225.7	
	COEFF.			0.055	0.086	0.103						0.024	0.013	0.013	
268.0	ORIFICE	216	217					218							
	PRESSURE	1078.2	1135.1					1192.7							
	COEFF.	-0.252	-0.150					-0.046							
260.0	ORIFICE	207			208										209
	PRESSURE	1077.6			1155.2										1145.7
	COEFF.	-0.253			-0.114										-0.131

DATE [illegible] PRODUCT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELRI	PROD DATE	WINDOFF	SET	CART	
41	1	P436-03	TF-556	2/ 4/81	35: 2:26:39	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.808	1872.5	1218.5	557.1	3.509	99.8	559.5	144[illegible]	1236.5	636.0	0.50	1.179	0.040

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			1014.2			1083.2	1150.6		1196.6		
	COEFFICIENT			-0.367			-0.243	-0.122		-0.039		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				1006.1		1189.8	1290.0		1224.1		
	COEFFICIENT				-0.381		-0.051	0.129		0.010		
277.5	ORIFICE							276		277		
	PRESSURE							1238.2		1239.9		
	COEFFICIENT							0.035		0.038		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1236.4		1224.6
	COEFFICIENT						9.999	9.999		0.036		0.011
260.0	ORIFICE	291B	292B									
	PRESSURE	1309.2	1291.3									
	COEFFICIENT	0.163	0.131									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1164.3	1164.2
	COEFFICIENT	-0.097	-0.097

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.158	0.120	0.107	0.073		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.112	0.286	0.189	0.115	0.091	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.128	0.105	0.075	0.064		

ACCELEROMETER RMS VALUES

1	2	3
8.8890	8.0890	8.0880

DATE: 2-27-81 PROGRAM NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	2	P436-03	TF-556	2/ 4/81	35: 2:27: 5	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1869.1	1225.9	549.5	3.430	99.2	558.9	14331.	1243.9	625.2	0.50	1.173	0.793

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	1324.9	1072.2	1136.3	1185.1	1152.9	1107.0									
	COEFF.	0.180	-0.280	-0.163	-0.074	-0.133	-0.216									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	1460.0	1014.3	1134.6	1192.5	1181.6	1082.7									
	COEFF.	0.426	-0.385	-0.166	-0.061	-0.081	-0.261									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							975.9	968.2	985.5	1091.3	1096.7	1123.1			
	COEFF.							-0.455	-0.469	-0.437	-0.245	-0.235	-0.187			
282.0	ORIFICE													*301*	*302*	*303*
	PRESSURE													1076.0	1095.5	1120.5
	COEFF.													-0.273	-0.237	-0.192
278.0	ORIFICE	220	221	222												
	PRESSURE	1475.7	960.3	1158.6												
	COEFF.	0.454	-0.483	-0.123												
277.0	ORIFICE				223	224	225									
	PRESSURE				1202.6	1188.5	1099.0									
	COEFF.				-0.043	-0.068	-0.231									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													1098.1	1106.1	1119.2
	COEFF.													-0.233	-0.218	-0.194
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	1498.3	1075.6	1178.0	1202.1	1204.5	1117.6									
	COEFF.	0.496	-0.274	-0.087	-0.043	-0.039	-0.197									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1514.4	1115.2	1175.0	1203.0	1209.1	1142.0									
	COEFF.	0.525	-0.201	-0.093	-0.042	-0.031	-0.153									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
41	2	P436-03	TF-556	2/ 4/81	35: 2:27: 5	0.	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10-3
0.800	1869.1	1225.9	549.5	3.490	99.2	558.9	14331.	1243.9	625.2	0.50	1.173	0.799

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	1123.5			1215.8										1292.6
	COEFF.	-0.186			-0.018										0.121
290.0	ORIFICE	232	233					234							
	PRESSURE	1051.1	1176.2					1224.1							
	COEFF.	-0.318	-0.090					-0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	1070.9	1186.8					1232.9							
	COEFF.	-0.282	-0.071					0.013							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1239.8	1237.2	1239.4						
	COEFF.						0.025	0.020	0.024						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		1188.5					1247.5	1239.1	1240.2	1239.6				
	COEFF.		-0.068					0.039	0.024	0.026	0.025				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1258.8		1263.1	1263.9	1256.2	1261.0	1263.8	
	COEFF.							0.060		0.068	0.069	0.055	0.064	0.069	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1249.5	1266.3	1275.9						1236.8	1230.7	1230.7	
	COEFF.			0.043	0.074	0.091						0.020	0.009	0.009	
258.0	ORIFICE	216	217					218							
	PRESSURE	1088.4	1143.7					1200.1							
	COEFF.	-0.250	-0.150					-0.047							
260.0	ORIFICE	207			208										209
	PRESSURE	1088.4			1163.5										1153.6
	COEFF.	-0.250			-0.114										-0.132

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
41	2	P436-03	TF-556	2/ 4/81	35: 2:27: 5	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1869.1	1225.9	549.5	3.490	99.2	558.9	14331.	1243.9	625.2	0.50	1.173	0.799

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			1028.9			1099.1	1162.9		1203.0		
	COEFFICIENT			-0.359			-0.231	-0.115		-0.042		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				1021.0		1192.9	1292.5		1229.7		
	COEFFICIENT				-0.373		-0.060	0.121		0.007		
277.5	ORIFICE							276		277		
	PRESSURE							1246.4		1242.2		
	COEFFICIENT							0.037		0.030		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1240.1		1228.3
	COEFFICIENT						9.999	9.999		0.020		0.004
260.0	ORIFICE	291B	292B									
	PRESSURE	1312.8	1292.8									
	COEFFICIENT	0.158	0.122									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1171.4	1171.0
	COEFFICIENT	-0.099	-0.100

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.157	0.121	0.102	0.068	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.104	0.258	0.188	0.114	0.090
273.0	ORIFICE	401	402	403	404	
	VALUE	0.129	0.106	0.074	0.063	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8680

DATE. 2-27-81 PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
41	3	P430-03	TF-556	2/ 4/81	35: 2:27:46	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1879.8	1232.6	552.9	3.501	100.4	560.1	14196.	1250.7	629.1	0.50	1.173	0.794

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1332.8	1076.5	1142.7	1191.8	1159.4	1114.2									
	COEFF.	0.181	-0.279	-0.163	-0.074	-0.132	-0.214									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1468.5	1018.1	1139.4	1199.2	1188.2	1089.3									
	COEFF.	0.427	-0.388	-0.169	-0.061	-0.080	-0.261									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							980.8	972.7	990.2	1097.0	1102.2	1127.5			
	COEFF.							-0.456	-0.470	-0.439	-0.245	-0.236	-0.190			
	ORIFICE													*301*	*302*	*303*
282.0	PRESSURE													1082.1	1101.9	1127.1
	COEFF.													-0.272	-0.236	-0.191
	ORIFICE	220	221	222												
278.0	PRESSURE	1484.5	963.6	1165.4												
	COEFF.	0.456	-0.487	-0.122												
	ORIFICE				223	224	225									
277.0	PRESSURE				1209.5	1195.3	1105.3									
	COEFF.				-0.042	-0.068	-0.230									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													1103.9	1111.8	1125.2
	COEFF.													-0.233	-0.219	-0.194
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1506.5	1077.3	1183.8	1208.3	1210.3	1123.1									
	COEFF.	0.495	-0.281	-0.088	-0.044	-0.040	-0.198									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1523.3	1121.2	1181.6	1210.2	1216.2	1148.7									
	COEFF.	0.526	-0.201	-0.092	-0.040	-0.030	-0.152									

DATE. [illegible] PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	3	P436-03	TF-556	2/ 4/81	35: 2:27:46	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	PEX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1879.8	1232.6	552.9	3.501	100.4	560.1	14196.	1250.7	629.1	0.50	1.173	0.794

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	1130.6			1223.0										1301.5
	COEFF.	-0.185			-0.017										0.125
290.0	ORIFICE	232	233					234							
	PRESSURE	1056.2	1182.8					1230.9							
	COEFF.	-0.319	-0.090					-0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	1078.8	1193.6					1240.3							
	COEFF.	-0.278	-0.071					0.014							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1245.9	1244.6	1246.6						
	COEFF.						0.024	0.022	0.025						
285.0	ORIFICE			251				252	*319*	*320*	*321*				
	PRESSURE			1196.8				1255.2	1245.9	1247.2	1245.3				
	COEFF.			-0.065				0.041	0.024	0.026	0.023				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1267.3		1270.1	1270.9	1263.8	1267.4	1270.2	
	COEFF.							0.063		0.068	0.069	0.055	0.063	0.068	
275.0	ORIFICE				*294*	*295*	*296*					*297*	*298*	*299*	
	PRESSURE				1257.4	1274.5	1265.3					1244.7	1238.8	1238.6	
	COEFF.				0.045	0.076	0.095					0.022	0.011	0.011	
268.0	ORIFICE	216	217					218							
	PRESSURE	1092.9	1149.9					1206.7							
	COEFF.	-0.253	-0.150					-0.047							
260.0	ORIFICE	207			208										209
	PRESSURE	1094.3			1170.2										1160.6
	COEFF.	-0.250			-0.113										-0.130

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
41	3	P436-03	TF-556	2/ 4/81	35: 2:27:46	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1879.8	1232.6	552.9	3.501	100.4	560.1	14196.	1250.7	629.1	0.50	1.173	0.794

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			1034.0			1103.8	1168.1		1209.9		
	COEFFICIENT			-0.359			-0.233	-0.117		-0.041		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				1025.9		1201.2	1300.8		1237.3		
	COEFFICIENT				-0.374		-0.057	0.123		0.009		
277.5	ORIFICE							276		277		
	PRESSURE							1253.9		1248.3		
	COEFFICIENT							0.038		0.028		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1249.6		1236.2
	COEFFICIENT						9.999	9.999		0.031		0.006
260.0	ORIFICE	291B	292B									
	PRESSURE	1320.6	1302.0									
	COEFFICIENT	0.159	0.125									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1178.2	1177.9
	COEFFICIENT	-0.098	-0.099

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.160	0.120	0.103	0.069		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.105	0.264	0.189	0.113	0.090	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.131	0.109	0.076	0.065		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEC	CART	TRANSONIC 16T
41	4	P436-03	TF-556	2/ 4/81	35: 2:28:42	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1878.5	1232.7	551.8	3.492	101.0	560.7	14194.	1250.8	627.7	0.50	1.173	0.715

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1332.4	1078.2	1142.5	1191.7	1159.6	1114.4									
	COEFF.	0.181	-0.280	-0.163	-0.074	-0.132	-0.214									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1468.5	1018.2	1140.5	1199.1	1188.3	1088.8									
	COEFF.	0.427	-0.389	-0.167	-0.061	-0.080	-0.261									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							982.2	973.8	990.9	1097.1	1102.3	1128.4			
	COEFF.							-0.454	-0.469	-0.438	-0.246	-0.238	-0.189			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												1082.9	1102.4	1127.8	
	COEFF.												-0.272	-0.236	-0.190	
	ORIFICE	220	221	222												
278.0	PRESSURE	1484.2	965.3	1165.7												
	COEFF.	0.456	-0.485	-0.121												
	ORIFICE				223	224	225									
277.0	PRESSURE				1209.8	1195.5	1106.1									
	COEFF.				-0.042	-0.067	-0.229									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													1105.1	1113.3	1126.7
	COEFF.													-0.231	-0.216	-0.192
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1507.3	1079.9	1184.9	1209.3	1211.4	1124.4									
	COEFF.	0.498	-0.277	-0.087	-0.042	-0.039	-0.196									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1523.3	1121.5	1181.7	1210.4	1216.2	1148.9									
	COEFF.	0.527	-0.201	-0.092	-0.040	-0.030	-0.152									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	4	P436-03	TF-556	2/ 4/81	35: 2:28:42	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1878.5	1232.7	551.8	3.492	101.0	560.7	14194.	1250.8	627.7	0.50	1.173	0.715

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	1131.1			1223.8										1301.4
	COEFF.	-0.184			-0.016										0.124
290.0	ORIFICE	232	233					234							
	PRESSURE	1056.8	1183.2					1231.0							
	COEFF.	-0.319	-0.090					-0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	1084.7	1194.7					1240.9							
	COEFF.	-0.268	-0.069					0.015							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1245.2	1244.1	1245.9						
	COEFF.						0.023	0.021	0.024						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		1196.9					1255.3	1245.4	1246.9	1249.7				
	COEFF.		-0.065					0.041	0.023	0.026	0.031				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1266.4		1270.6	1271.2	1263.3	1268.4	1270.9	
	COEFF.							0.061		0.069	0.070	0.055	0.065	0.069	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1259.6	1276.4	1286.3						1245.0	1238.7	1238.9	
	COEFF.			0.049	0.079	0.097						0.022	0.011	0.011	
268.0	ORIFICE	216	217					218							
	PRESSURE	1094.7	1150.4					1207.0							
	COEFF.	-0.250	-0.149					-0.047							
260.0	ORIFICE	207			208										209
	PRESSURE	1094.6			1169.8										1160.2
	COEFF.	-0.250			-0.114										-0.132

DATE. 2-27-81 PROJECT NO. P439-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
41	4	P439-03	TF-556	2/ 4/81	35: 2:28:42	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1878.5	1232.7	551.8	3.492	101.0	560.7	14194.	1250.8	627.7	0.50	1.173	0.715

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 600ST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			1034.9			1104.5	1169.7		1210.7		
	COEFFICIENT			-0.358			-0.232	-0.114		-0.040		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				1027.4		1201.9	1300.4		1237.6		
	COEFFICIENT				-0.372		-0.056	0.123		0.009		
277.5	ORIFICE							276		277		
	PRESSURE							1252.7		1254.0		
	COEFFICIENT							0.036		0.039		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1251.9		1237.2
	COEFFICIENT						9.999	9.999		0.035		0.008
260.0	ORIFICE	291B	292B									
	PRESSURE	1320.9	1302.8									
	COEFFICIENT	0.160	0.127									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1178.8	1178.6
	COEFFICIENT	-0.098	-0.098

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.159	0.117	0.104	0.069		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.106	0.255	0.189	0.115	0.091	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.131	0.106	0.074	0.064		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	5	P436-03	TF-556	2/ 4/81	35: 2:29: 7	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1881.9	1233.9	553.5	3.499	101.1	560.8	14170.	1252.0	629.9	0.50	1.172	0.713

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1333.8	1079.4	1143.7	1192.9	1160.5	1115.2									
	COEFF.	0.181	-0.279	-0.163	-0.074	-0.133	-0.214									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1469.9	1018.5	1141.2	1200.6	1189.5	1090.0									
	COEFF.	0.426	-0.389	-0.168	-0.060	-0.080	-0.260									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							904.0	975.9	992.6	1098.3	1103.7	1129.2			
	COEFF.							-0.451	-0.466	-0.436	-0.245	-0.235	-0.189			
	ORIFICE													*301*	*302*	*303*
282.0	PRESSURE													1084.1	1104.1	1129.2
	COEFF.													-0.271	-0.235	-0.189
	ORIFICE	220	221	222												
278.0	PRESSURE	1485.5	964.6	1166.2												
	COEFF.	0.455	-0.486	-0.122												
	ORIFICE				223	224	225									
277.0	PRESSURE				1210.5	1196.3	1106.7									
	COEFF.				-0.042	-0.068	-0.230									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													1106.2	1114.4	1127.8
	COEFF.													-0.231	-0.216	-0.192
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1508.3	1079.3	1185.6	1210.2	1212.3	1125.1									
	COEFF.	0.496	-0.279	-0.087	-0.043	-0.039	-0.197									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1524.3	1122.0	1182.3	1210.8	1217.1	1149.7									
	COEFF.	0.525	-0.202	-0.093	-0.042	-0.030	-0.152									

DATE 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
41	5	P436-03	TF-556	2/ 4/81	35: 2:29: 7	0	268	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1081.9	1233.9	553.5	3.499	101.1	560.8	14170.	1252.0	629.9	0.50	1.172	0.713

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 POST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	1131.8			1224.4										1302.5
	COEFF.	-0.184			-0.017										0.124
290.0	ORIFICE	232	233					234							
	PRESSURE	1058.0	1184.3					1232.2							
	COEFF.	-0.318	-0.090					-0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	1084.6	1195.2					1241.9							
	COEFF.	-0.270	-0.070					0.014							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1247.2	1245.5	1247.9						
	COEFF.						0.024	0.021	0.025						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		1198.0					1256.7	1247.0	1248.1	1249.8				
	COEFF.		-0.065					0.041	0.024	0.026	0.029				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1268.0		1271.4	1272.8	1265.0	1269.6	1273.0	
	COEFF.							0.062		0.068	0.070	0.056	0.064	0.071	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1260.8	1277.4	1287.7						1246.0	1239.9	1239.7	
	COEFF.			0.049	0.079	0.097						0.022	0.011	0.010	
268.0	ORIFICE	216	217					218							
	PRESSURE	1095.3	1151.2					1207.8							
	COEFF.	-0.250	-0.149					-0.047							
260.0	ORIFICE	207			208										209
	PRESSURE	1095.6			1171.0										1161.2
	COEFF.	-0.250			-0.114										-0.131

DATE. 3-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	5	P436-03	TF-556	2/ 4/81	35: 2:29: 7	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1881.9	1233.9	553.5	3.499	101.1	560.8	14170.	1252.0	629.9	0.50	1.172	0.713

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			1035.5			1104.9	1170.2		1211.5		
	COEFFICIENT			-0.358			-0.233	-0.115		-0.040		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				1027.5		1202.3	1301.9		1238.6		
	COEFFICIENT				-0.373		-0.057	0.123		0.008		
277.5	ORIFICE							276		277		
	PRESSURE							1254.7		1254.4		
	COEFFICIENT							0.038		0.037		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1251.6		1237.8
	COEFFICIENT						9.999	9.999		0.032		0.007
260.0	ORIFICE	291B	292B									
	PRESSURE	1321.7	1302.7									
	COEFFICIENT	0.159	0.124									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1179.8	1179.3
	COEFFICIENT	-0.098	-0.099

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.157	0.120	0.103	0.069		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.108	0.264	0.189	0.115	0.090	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.130	0.108	0.075	0.063		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE: 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	6	P436-03	TF-556	2/ 4/81	35: 2:29:45	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1881.4	1233.2	553.6	3.499	101.1	560.8	14184.	1251.3	630.1	0.50	1.174	0.676

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1333.9	1079.5	1143.7	1192.8	1164.6	1115.4									
	COEFF.	0.182	-0.278	-0.162	-0.073	-0.124	-0.213									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1469.4	1017.9	1140.3	1199.8	1189.0	1089.2									
	COEFF.	0.427	-0.389	-0.168	-0.060	-0.080	-0.260									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							983.1	974.8	992.1	1097.2	1102.3	1128.1			
	COEFF.							-0.452	-0.467	-0.436	-0.246	-0.236	-0.190			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												1084.4	1104.0	1129.2	
	COEFF.												-0.269	-0.233	-0.188	
	ORIFICE	220	221	222												
278.0	PRESSURE	1485.1	965.1	1166.7												
	COEFF.	0.455	-0.484	-0.120												
	ORIFICE				223	224	225									
277.0	PRESSURE				1210.7	1196.4	1106.7									
	COEFF.				-0.041	-0.067	-0.229									
	ORIFICE												*291*	*292*	*293*	
275.0	PRESSURE												1105.1	1113.3	1126.9	
	COEFF.												-0.231	-0.217	-0.192	
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1507.8	1078.5	1185.2	1209.7	1211.6	1124.5									
	COEFF.	0.496	-0.279	-0.087	-0.042	-0.039	-0.196									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1524.3	1122.3	1182.7	1212.3	1217.0	1149.7									
	COEFF.	0.526	-0.200	-0.091	-0.038	-0.029	-0.151									

DATE, 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	6	P436-03	TF-556	2/ 4/81	35: 2:29:45	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1881.4	1233.2	553.6	3.499	101.1	560.8	14184.	1251.3	630.1	0.50	1.174	0.676

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C →	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	1132.1			1224.1										1302.9
	COEFF.	-0.183			-0.016										0.126
290.0	ORIFICE	232	233					234							
	PRESSURE	1057.5	1184.3					1232.2							
	COEFF.	-0.317	-0.088					-0.002							
288.0	ORIFICE	253	254					255							
	PRESSURE	1086.2	1195.0					1241.5							
	COEFF.	-0.266	-0.069					0.015							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1246.1	1244.4	1247.0						
	COEFF.						0.023	0.020	0.025						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		1198.0					1256.4	1245.9	1247.2	1247.9				
	COEFF.		-0.064					0.042	0.023	0.025	0.026				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1269.2		1272.7	1271.9	1264.0	1269.3	1271.9	
	COEFF.							0.065		0.071	0.070	0.056	0.065	0.070	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1260.2	1276.9	1288.7						1246.0	1240.5	1236.8	
	COEFF.			0.049	0.079	0.100						0.024	0.013	0.007	
268.0	ORIFICE	216	217					218							
	PRESSURE	1094.5	1151.3					1208.2							
	COEFF.	-0.251	-0.148					-0.045							
260.0	ORIFICE	207			208										209
	PRESSURE	1095.0			1170.9										1162.3
	COEFF.	-0.250			-0.113										-0.128

DATE: 2-7-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	6	P436-03	TF-556	2/ 4/81	35: 2:29:45	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1881.4	1233.2	553.6	3.499	101.1	560.8	14184.	1251.3	630.1	0.50	1.174	0.676

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			1034.9			1105.0	1169.7		1210.7		
	COEFFICIENT			-0.358			-0.232	-0.115		-0.041		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				1026.8		1201.8	1301.9		1238.5		
	COEFFICIENT				-0.373		-0.057	0.124		0.010		
277.5	ORIFICE							276		277		
	PRESSURE							1254.1		1256.4		
	COEFFICIENT							0.038		0.042		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1252.7		1238.1
	COEFFICIENT						9.999	9.999		0.035		0.009
260.0	ORIFICE	291B	292B									
	PRESSURE	1322.1	1304.1									
	COEFFICIENT	0.161	0.128									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1179.3	1179.2
	COEFFICIENT	-0.097	-0.098

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.156	0.117	0.100	0.068	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.104	0.265	0.187	0.114	0.090
273.0	ORIFICE	401	402	403	404	
	VALUE	0.132	0.106	0.074	0.064	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION. TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEQ	CART	
41	7	P436-03	TF-556	2/ 4/81	35: 2:30:15	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1880.5	1233.8	552.6	3.496	101.0	560.7	14172.	1251.9	628.6	0.50	1.174	0.677

MODEL	TRAJECTORY	ALPHA	BETA	SPEED	BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0	

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1334.0	1079.8	1144.1	1193.4	1162.1	1115.6									
	COEFF.	0.161	-0.279	-0.162	-0.073	-0.130	-0.214									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1469.5	1018.4	1141.1	1200.4	1189.6	1089.6									
	COEFF.	0.427	-0.390	-0.168	-0.060	-0.080	-0.261									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							982.4	974.3	991.4	1098.8	1104.2	1131.3			
	COEFF.							-0.455	-0.470	-0.439	-0.244	-0.235	-0.186			
	ORIFICE													*301*	*302*	*303*
282.0	PRESSURE													1084.4	1104.0	1129.5
	COEFF.													-0.270	-0.235	-0.189
	ORIFICE	220	221	222												
278.0	PRESSURE	1485.7	966.1	1166.8												
	COEFF.	0.456	-0.485	-0.121												
	ORIFICE				223	224	225									
277.0	PRESSURE				1211.0	1196.8	1106.9									
	COEFF.				-0.041	-0.067	-0.230									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													1105.4	1113.6	1127.5
	COEFF.													-0.232	-0.218	-0.192
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1508.2	1079.7	1185.8	1210.1	1212.2	1125.3									
	COEFF.	0.496	-0.279	-0.087	-0.043	-0.039	-0.196									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1524.9	1123.0	1183.5	1212.9	1217.9	1150.5									
	COEFF.	0.527	-0.201	-0.091	-0.038	-0.029	-0.151									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	7	P436-03	TF-556	2/ 4/81	35: 2:30:15	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1880.5	1233.8	552.6	3.496	101.0	560.7	14172.	1251.9	628.6	0.50	1.174	0.677

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	1132.2			1224.1										1302.6
	COEFF.	-0.184			-0.018										0.125
290.0	ORIFICE	232	233					234							
	PRESSURE	1057.7	1184.7					1232.7							
	COEFF.	-0.319	-0.089					-0.002							
288.0	ORIFICE	253	254					255							
	PRESSURE	1086.2	1195.8					1242.1							
	COEFF.	-0.267	-0.069					0.015							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1248.9	1246.5	1248.7						
	COEFF.						0.027	0.023	0.027						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		1198.8					1256.7	1247.6	1249.1	1247.4				
	COEFF.		-0.063					0.041	0.025	0.028	0.025				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1268.5		1273.0	1272.5	1263.8	1269.5	1272.5	
	COEFF.							0.063		0.071	0.070	0.054	0.065	0.070	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1259.6	1276.4	1286.7						1246.3	1240.0	1237.6	
	COEFF.			0.047	0.077	0.096						0.025	0.011	0.007	
268.0	ORIFICE	216	217					218							
	PRESSURE	1095.4	1151.4					1208.6							
	COEFF.	-0.250	-0.149					-0.046							
260.0	ORIFICE	207			208										209
	PRESSURE	1096.1			1171.5										1162.4
	COEFF.	-0.249			-0.113										-0.129

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	7	P436-03	TF-556	2/ 4/81	35: 2:30:15	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.800	1880.5	1233.8	552.6	3.496	101.0	560.7	14172.	1251.9	628.6	0.50	1.174	0.677

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			1037.8			1104.0	1169.5		1211.2		
	COEFFICIENT			-0.355			-0.235	-0.116		-0.041		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				1030.3		1202.4	1300.8		1238.2		
	COEFFICIENT				-0.368		-0.057	0.121		0.008		
277.5	ORIFICE							276		277		
	PRESSURE							1253.8		1256.8		
	COEFFICIENT							0.036		0.042		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1252.0		1237.8
	COEFFICIENT						9.999	9.999		0.033		0.007
260.0	ORIFICE	291B	292B									
	PRESSURE	1322.3	1303.7									
	COEFFICIENT	0.160	0.126									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1179.4	1179.0
	COEFFICIENT	-0.099	-0.099

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.158	0.118	0.102	0.068		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.105	0.258	0.185	0.113	0.090	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.130	0.106	0.074	0.064		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	8	P43G-03	TF-556	2/ 4/81	35: 23:30:42	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1880.2	1232.5	553.2	3.491	101.8	561.5	14198.	1250.6	629.6	0.50	1.173	0.641

MODEL	TRAJECTORY	ALPHA	BETA	SPEED	BRAKE
111-0	STS-1 POOST	0.0	4.00	0.0	

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1332.3	1077.9	1142.2	1191.3	1162.2	1114.4									
	COEFF.	0.180	-0.279	-0.163	-0.075	-0.127	-0.213									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1469.4	1016.8	1139.1	1199.2	1188.7	1088.9									
	COEFF.	0.428	-0.390	-0.169	-0.060	-0.079	-0.260									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							980.9	973.0	990.1	1096.3	1101.6	1128.2			
	COEFF.							-0.455	-0.469	-0.438	-0.246	-0.237	-0.188			
	ORIFICE													*301*	*302*	*303*
282.0	PRESSURE													1082.7	1102.2	1127.6
	COEFF.													-0.271	-0.235	-0.190
	ORIFICE	220	221	222												
278.0	PRESSURE	1484.1	964.2	1165.8												
	COEFF.	0.455	-0.485	-0.121												
	ORIFICE				223	224	225									
277.0	PRESSURE				1209.6	1195.4	1105.8									
	COEFF.				-0.041	-0.067	-0.229									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													1104.6	1112.8	1126.2
	COEFF.													-0.231	-0.216	-0.192
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1507.3	1078.2	1184.5	1209.0	1210.8	1123.8									
	COEFF.	0.497	-0.279	-0.087	-0.042	-0.039	-0.196									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1523.1	1121.5	1181.5	1207.5	1216.2	1148.8									
	COEFF.	0.525	-0.201	-0.092	-0.045	-0.029	-0.151									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	8	P436-03	TF-556	2/ 4/81	35: 2:30:42	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1880.2	1232.5	553.2	3.491	101.8	561.5	14198.	1250.6	629.6	0.50	1.173	0.641

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.76	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	1130.9			1223.9										1301.7
	COEFF.	-0.184			-0.016										0.125
290.0	ORIFICE	232	233					234							
	PRESSURE	1057.1	1182.7					1230.8							
	COEFF.	-0.317	-0.090					-0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	1086.3	1193.8					1240.7							
	COEFF.	-0.264	-0.070					0.015							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1245.4	1243.7	1246.1						
	COEFF.						0.023	0.020	0.025						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		1196.5					1255.1	1245.2	1246.7	1248.4				
	COEFF.		-0.065					0.041	0.023	0.026	0.029				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1267.5		1269.8	1269.9	1262.0	1267.7	1270.1	
	COEFF.							0.063		0.067	0.068	0.053	0.064	0.068	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1258.8	1275.7	1285.9						1245.6	1239.1	1238.9	
	COEFF.			0.047	0.078	0.096						0.024	0.012	0.012	
268.0	ORIFICE	216	217					218							
	PRESSURE	1094.0	1150.4					1207.0							
	COEFF.	-0.250	-0.148					-0.046							
260.0	ORIFICE	207			208										209
	PRESSURE	1094.2			1169.8										1159.2
	COEFF.	-0.250			-0.113										-0.133

DATE, 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	8	P436-03	TF-556	2/ 4/81	35: 2:30:42	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1680.2	1232.5	553.2	3.491	101.8	561.5	14198.	1250.6	629.6	0.50	1.173	0.641

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			1033.9			1104.8	1169.8		1210.4		
	COEFFICIENT			-0.359			-0.231	-0.113		-0.040		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				1026.2		1201.7	1301.3		1237.9		
	COEFFICIENT				-0.373		-0.056	0.124		0.010		
277.5	ORIFICE							276		277		
	PRESSURE							1253.5		1257.8		
	COEFFICIENT							0.038		0.040		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1252.1		1237.4
	COEFFICIENT						9.999	9.999		0.035		0.009
260.0	ORIFICE	291B	292B									
	PRESSURE	1321.1	1302.5									
	COEFFICIENT	0.160	0.127									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1178.6	1178.4
	COEFFICIENT	-0.098	-0.098

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.157	0.119	0.102	0.069		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.108	0.255	0.190	0.115	0.090	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.130	0.107	0.074	0.062		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	RN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	9	P436-03	TF-556	2/ 4/81	35: 2:31:10	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1878.8	1231.0	553.2	3.497	100.8	560.5	14228.	1249.1	629.7	0.50	1.173	0.642

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

Zv	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1330.6	1076.3	1140.5	1189.6	1158.2	1112.4									
	COEFF.	0.180	-0.280	-0.104	-0.075	-0.132	-0.214									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1466.4	1014.7	1137.3	1197.2	1186.3	1086.7									
	COEFF.	0.425	-0.391	-0.170	-0.061	-0.081	-0.261									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							982.8	974.5	991.6	1096.0	1101.4	1127.6			
	COEFF.							-0.449	-0.464	-0.433	-0.244	-0.234	-0.187			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												1079.9	1099.2	1124.2	
	COEFF.												-0.273	-0.238	-0.193	
	ORIFICE	220	221	222												
278.0	PRESSURE	1482.3	961.9	1163.8												
	COEFF.	0.454	-0.486	-0.122												
	ORIFICE				223	224	225									
277.0	PRESSURE				1207.7	1193.4	1103.7									
	COEFF.				-0.042	-0.068	-0.230									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													1102.7	1110.9	1124.0
	COEFF.													-0.232	-0.217	-0.193
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1505.5	1076.5	1183.2	1207.5	1209.4	1122.6									
	COEFF.	0.496	-0.279	-0.086	-0.043	-0.039	-0.196									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1521.3	1119.7	1179.9	1211.7	1214.4	1147.0									
	COEFF.	0.525	-0.201	-0.092	-0.035	-0.030	-0.152									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
41	9	P436-03	TF-556	2/ 4/81	35: 2:31:10	0.	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1878.8	1231.0	553.2	3.497	100.8	560.5	14228.	1249.1	629.7	0.50	1.173	0.642

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	1128.8			1221.7										1299.4
	COEFF.	-0.185			-0.017										0.124
290.0	ORIFICE	232	233					234							
	PRESSURE	1055.1	1180.9					1229.1							
	COEFF.	-0.318	-0.091					-0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	1085.3	1192.2					1238.6							
	COEFF.	-0.263	-0.070					0.014							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1244.8	1242.8	1245.4						
	COEFF.						0.025	0.021	0.026						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		1193.9					1254.2	1245.4	1246.9	1246.3				
	COEFF.		-0.067					0.042	0.026	0.029	0.028				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1264.2		1267.9	1271.3	1263.4	1267.5	1270.5	
	COEFF.							0.060		0.067	0.073	0.058	0.066	0.071	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1257.0	1273.8	1282.4						1241.8	1235.7	1233.6	
	COEFF.			0.047	0.077	0.093						0.019	0.008	0.005	
268.0	ORIFICE	216	217					218							
	PRESSURE	1092.9	1148.6					1205.0							
	COEFF.	-0.250	-0.149					-0.047							
260.0	ORIFICE	207			208										209
	PRESSURE	1092.1			1168.3										1158.8
	COEFF.	-0.251			-0.113										-0.131

DATE: [illegible] PROJECT NO: P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
41	9	P43G-03	TF-556	2/ 4/81	35: 2:31:10	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1878.8	1231.0	553.2	3.497	100.8	560.5	14226.	1249.1	629.7	0.50	1.173	0.642

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 800ST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			1031.9			1103.4	1167.6		1208.4		
	COEFFICIENT			-0.360			-0.231	-0.115		-0.041		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				1024.2		1199.1	1299.6		1235.0		
	COEFFICIENT				-0.374		-0.058	0.124		0.009		
277.5	ORIFICE							276		277		
	PRESSURE							1251.5		1256.0		
	COEFFICIENT							0.037		0.046		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1249.6		1234.9
	COEFFICIENT						9.999	9.999		0.034		0.007
260.0	ORIFICE	2918	2928									
	PRESSURE	1319.0	1300.8									
	COEFFICIENT	0.159	0.126									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1176.4	1176.0
	COEFFICIENT	-0.099	-0.099

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.159	0.118	0.101	0.068		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.108	0.259	0.189	0.115	0.090	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.130	0.105	0.073	0.063		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOEF	SET	CART	TRANSONIC 16T
41	10	P436-03	TF-556	2/ 4/81	35: 2:31:31	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1881.0	1232.8	553.6	3.496	101.4	561.1	14192.	1250.9	630.1	0.50	1.174	0.608

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1333.2	1078.9	1143.1	1192.2	1163.5	1114.5									
	COEFF.	0.181	-0.278	-0.162	-0.073	-0.125	-0.214									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1468.8	1016.6	1139.7	1199.3	1188.6	1088.9									
	COEFF.	0.426	-0.390	-0.168	-0.061	-0.080	-0.260									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							981.6	973.7	991.2	1096.3	1101.5	1128.5			
	COEFF.							-0.454	-0.468	-0.436	-0.246	-0.237	-0.188			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												1083.4	1103.0	1128.3	
	COEFF.												-0.270	-0.234	-0.189	
	ORIFICE	220	221	222												
278.0	PRESSURE	1484.4	963.5	1166.0												
	COEFF.	0.454	-0.486	-0.121												
	ORIFICE				223	224	225									
277.0	PRESSURE				1209.8	1195.7	1105.8									
	COEFF.				-0.041	-0.067	-0.229									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													1104.8	1112.8	1126.3
	COEFF.													-0.231	-0.217	-0.192
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1506.7	1077.9	1184.4	1209.1	1211.0	1123.8									
	COEFF.	0.495	-0.280	-0.087	-0.043	-0.039	-0.197									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1523.0	1121.1	1181.5	1207.2	1215.9	1148.6									
	COEFF.	0.524	-0.202	-0.093	-0.046	-0.030	-0.152									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
41	10	P436-03	TF-556	2/ 4/81	35: 2:31:31	0.	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1881.0	1232.8	553.6	3.496	101.4	561.1	14192.	1250.9	630.1	0.50	1.174	0.608

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	1131.2			1223.2										1301.7
	COEFF.	-0.183			-0.017										0.124
290.0	ORIFICE	232	233					234							
	PRESSURE	1057.1	1183.4					1231.6							
	COEFF.	-0.317	-0.089					-0.002							
288.0	ORIFICE	253	254					255							
	PRESSURE	1085.1	1193.9					1240.7							
	COEFF.	-0.267	-0.070					0.014							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1245.9	1244.0	1246.0						
	COEFF.						0.024	0.020	0.024						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		1197.0					1255.1	1245.3	1246.6	1247.5				
	COEFF.		-0.065					0.040	0.023	0.025	0.026				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1268.2		1271.0	1270.7	1263.0	1268.5	1270.6	
	COEFF.							0.064		0.069	0.068	0.055	0.064	0.068	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1258.7	1275.6	1285.9						1245.5	1239.4	1238.6	
	COEFF.			0.047	0.077	0.096						0.023	0.012	0.010	
268.0	ORIFICE	216	217					218							
	PRESSURE	1093.8	1150.4					1207.1							
	COEFF.	-0.251	-0.149					-0.046							
260.0	ORIFICE	207			208										209
	PRESSURE	1094.4			1170.2										1161.1
	COEFF.	-0.250			-0.113										-0.129

[illegible] PROJECT [illegible] P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
41	10	P43G-03	TF-556	2/ 4/81	35: 2:31:31	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.801	1881.0	1232.8	553.6	3.496	101.4	561.1	14192.	[illegible]0.9	630.1	0.50	1.174	0.608

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			1034.6			1105.6	1169.8		1210.4		
	COEFFICIENT			-0.358			-0.230	-0.114		-0.040		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				1026.8		1201.5	1300.8		1237.7		
	COEFFICIENT				-0.372		-0.057	0.123		0.009		
277.5	ORIFICE							276		277		
	PRESSURE							1253.8		1257.1		
	COEFFICIENT							0.038		0.044		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1250.7		1236.7
	COEFFICIENT						9.999	9.999		0.032		0.007
260.0	ORIFICE	291B	292B									
	PRESSURE	1321.2	1302.1									
	COEFFICIENT	0.160	0.125									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE						261			262		
	PRESSURE						1178.4			1178.2		
	COEFFICIENT						-0.098			-0.099		

KULITE RMS VALUES

287.0	ORIFICE			410	411			412		413		
	VALUE			0.159	0.118			0.102		0.068		
278.0	ORIFICE			405	406			407		408	409	
	VALUE			0.107	0.257			0.187		0.115	0.091	
273.0	ORIFICE			401	402			403		404		
	VALUE			0.131	0.106			0.074		0.063		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	1	P436-03	TF-556	2/ 4/81	35: 2:34: 5	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.900	1809.5	1069.4	606.9	3.541	101.5	561.2	17690.	1087.0	722.5	0.50	1.184	0.567

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1194.6	914.8	951.1	1033.1	998.8	952.1									
	COEFF.	0.206	-0.255	-0.195	-0.060	-0.116	-0.193									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1353.1	830.7	886.7	1042.9	1036.9	929.2									
	COEFF.	0.467	-0.393	-0.301	-0.044	-0.054	-0.231									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							770.1	765.6	785.0	875.9	880.7	901.8			
	COEFF.							-0.493	-0.501	-0.469	-0.319	-0.311	-0.276			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												865.6	880.7	898.3	
	COEFF.												-0.336	-0.311	-0.282	
	ORIFICE	220	221	222												
278.0	PRESSURE	1373.3	737.8	935.6												
	COEFF.	0.501	-0.546	-0.220												
	ORIFICE				223	224	225									
277.0	PRESSURE				1053.8	1042.1	944.8									
	COEFF.				-0.026	-0.045	-0.205									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													907.7	918.4	936.7
	COEFF.													-0.266	-0.249	-0.219
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1396.2	774.8	1009.1	1051.3	1055.5	968.7									
	COEFF.	0.538	-0.485	-0.099	-0.030	-0.023	-0.166									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1412.9	880.2	1023.2	1053.0	1058.9	998.6									
	COEFF.	0.566	-0.312	-0.076	-0.027	-0.017	-0.117									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY	HR	MIN	SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	1	P436-03	TF-556	2/ 4/81	35:	2:	34:	5	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.900	1809.5	1069.4	606.9	3.541	101.5	561.2	17690.	1087.0	722.5	0.50	1.184	0.567

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	902.9			1063.3										1137.5
	COEFF.	-0.274			-0.010										0.112
290.0	ORIFICE	232	233					234							
	PRESSURE	828.6	985.1					1071.4							
	COEFF.	-0.397	-0.139					0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	896.0	991.7					1076.7							
	COEFF.	-0.286	-0.128					0.012							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1074.0	1082.2	1091.3						
	COEFF.						0.008	0.021	0.036						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		963.8					1123.7	1100.4	1100.4	1103.1				
	COEFF.		-0.174					0.089	0.051	0.051	0.056				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1119.0		1122.6	1122.6	1117.5	1122.5	1121.6	
	COEFF.							0.082		0.088	0.088	0.079	0.088	0.086	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1110.0	1130.2	1137.6						1087.4	1080.9	1078.8	
	COEFF.			0.067	0.100	0.112						0.030	0.019	0.015	
268.0	ORIFICE	216	217					218							
	PRESSURE	886.0	956.3					1034.0							
	COEFF.	-0.302	-0.186					-0.058							
260.0	ORIFICE	207			208										209
	PRESSURE	867.6			995.8										988.6
	COEFF.	-0.333			-0.121										-0.133

DATE: 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	1	P436-03	TF-556	2/ 4/81	35: 2:34: 5	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.900	1809.5	1069.4	606.9	3.541	101.5	561.2	1769.0	1087.0	722.5	0.50	1.184	0.567

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			799.5			854.7	913.6		1050.8		
	COEFFICIENT			-0.445			-0.354	-0.257		-0.031		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				782.7		1036.5	1151.1		1074.9		
	COEFFICIENT				-0.472		-0.054	0.135		0.009		
277.5	ORIFICE							276		277		
	PRESSURE							1085.2		1141.2		
	COEFFICIENT							0.026		0.118		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1090.0		1079.7
	COEFFICIENT						9.999	9.999		0.034		0.017
260.0	ORIFICE	291B	292B									
	PRESSURE	1178.6	1163.9									
	COEFFICIENT	0.180	0.156									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1004.5	1004.4
	COEFFICIENT	-0.107	-0.107

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.237	0.236	0.157	0.121	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.102	0.426	0.220	0.134	0.094
273.0	ORIFICE	401	402	403	404	
	VALUE	0.170	0.095	0.076	0.070	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE 2-27-81 PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	2	P430-03	TF-556	2/ 4/81	35: 2:34:22	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.898	1805.3	1069.9	603.7	3.529	101.4	561.1	17680.	1087.4	717.9	0.50	1.184	0.568

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1193.4	915.1	951.5	1032.5	994.5	951.4									
	COEFF.	0.205	-0.256	-0.196	-0.062	-0.125	-0.196									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1351.9	830.7	887.6	1043.2	1036.8	929.4									
	COEFF.	0.467	-0.396	-0.302	-0.044	-0.055	-0.233									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							772.6	767.5	787.1	878.1	882.1	903.8			
	COEFF.							-0.492	-0.501	-0.468	-0.318	-0.311	-0.275			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												866.4	880.7	899.1	
	COEFF.												-0.337	-0.313	-0.283	
	ORIFICE	220	221	222												
278.0	PRESSURE	1372.0	738.3	938.1												
	COEFF.	0.500	-0.549	-0.218												
	ORIFICE				223	224	225									
277.0	PRESSURE				1053.5	1042.0	944.9									
	COEFF.				-0.027	-0.046	-0.207									
	ORIFICE												*291*	*292*	*293*	
275.0	PRESSURE												908.5	919.5	937.7	
	COEFF.												-0.267	-0.249	-0.219	
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1395.5	777.5	1010.2	1051.7	1056.2	969.3									
	COEFF.	0.539	-0.484	-0.099	-0.030	-0.023	-0.167									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1411.0	881.2	1022.9	1052.5	1058.5	997.9									
	COEFF.	0.565	-0.313	-0.078	-0.029	-0.019	-0.119									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	2	P436-03	TF-556	2/ 4/81	35: 2:34:22	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.898	1805.3	1069.9	603.7	3.529	101.4	561.1	17680.	1087.4	717.9	0.50	1.184	0.568

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	904.4			1062.5										1136.0
	COEFF.	-0.274			-0.012										0.109
290.0	ORIFICE	232	233					234							
	PRESSURE	829.5	984.9					1070.9							
	COEFF.	-0.398	-0.141					0.002							
288.0	ORIFICE	253	254					255							
	PRESSURE	889.2	992.4					1076.8							
	COEFF.	-0.299	-0.128					0.011							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1074.8	1082.9	1092.1						
	COEFF.						0.008	0.021	0.037						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		964.6					1123.6	1101.0	1101.3	1103.5				
	COEFF.		-0.174					0.089	0.052	0.052	0.056				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1118.9		1122.8	1124.1	1118.7	1123.2	1122.7	
	COEFF.							0.081		0.088	0.090	0.081	0.088	0.087	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1111.6	1131.2	1138.0						1087.0	1080.5	1081.1	
	COEFF.			0.069	0.102	0.113						0.026	0.018	0.019	
268.0	ORIFICE	216	217					218							
	PRESSURE	887.8	956.3					1034.1							
	COEFF.	-0.302	-0.188					-0.059							
260.0	ORIFICE	207			208										209
	PRESSURE	868.8			995.9										988.1
	COEFF.	-0.333			-0.122										-0.135

DATE: 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION-WIND-TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	2	P436-03	TF-556	2/ 4/81	35: 2:34:22	0	280	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.898	1805.3	1069.9	603.7	3.529	101.4	561.1	17680.	1087.4	717.9	0.50	1.184	0.568

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			801.5			855.7	914.5		1051.0		
	COEFFICIENT			-0.445			-0.355	-0.257		-0.031		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				784.2		1036.6	1150.0		1074.3		
	COEFFICIENT				-0.473		-0.055	0.133		0.007		
277.5	ORIFICE							276		277		
	PRESSURE							1086.0		1134.7		
	COEFFICIENT							0.027		0.107		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1089.2		1079.3
	COEFFICIENT						9.999	9.999		0.032		0.016
260.0	ORIFICE	291B	292B									
	PRESSURE	1177.9	1162.6									
	COEFFICIENT	0.179	0.153									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1004.7	1004.8
	COEFFICIENT	-0.108	-0.108

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.234	0.237	0.154	0.120	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.092	0.421	0.212	0.131	0.092
273.0	ORIFICE	401	402	403	404	
	VALUE	0.166	0.094	0.076	0.069	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	3	P436-03	TF-556	2/ 4/81	35: 2:34:50	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10*3
0.897	1807.6	1072.4	603.8	3.541	100.4	560.1	17624.	1089.9	717.7	0.50	1.183	0.567

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1195.7	918.2	954.7	1034.5	999.6	952.9									
	COEFF.	0.204	-0.255	-0.195	-0.063	-0.120	-0.198									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1353.7	832.9	893.5	1045.4	1038.8	932.1									
	COEFF.	0.466	-0.396	-0.296	-0.045	-0.056	-0.232									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							771.0	766.3	786.6	880.6	885.5	907.6			
	COEFF.							-0.499	-0.507	-0.473	-0.318	-0.309	-0.273			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												867.0	882.3	901.2	
	COEFF.												-0.340	-0.315	-0.283	
	ORIFICE	220	221	222												
278.0	PRESSURE	1373.1	740.9	940.9												
	COEFF.	0.498	-0.549	-0.218												
	ORIFICE				223	224	225									
277.0	PRESSURE				1055.8	1044.0	946.7									
	COEFF.				-0.027	-0.047	-0.208									
	ORIFICE												*291*	*292*	*293*	
275.0	PRESSURE												908.4	919.5	937.8	
	COEFF.												-0.272	-0.253	-0.223	
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1396.2	779.9	1013.6	1053.5	1057.6	970.4									
	COEFF.	0.536	-0.484	-0.097	-0.031	-0.024	-0.169									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1412.2	886.7	1024.7	1052.4	1060.8	999.7									
	COEFF.	0.563	-0.308	-0.079	-0.033	-0.019	-0.120									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	3	P436-03	TF-556	2/ 4/81	35: 2:34:50	0.	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.897	1807.6	1072.4	603.8	3.541	100.4	560.1	17624.	1089.9	717.7	0.50	1.183	0.567

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	909.0			1064.7										1136.0
	COEFF.	-0.271			-0.013										0.105
290.0	ORIFICE	232	233					234							
	PRESSURE	830.7	989.4					1073.7							
	COEFF.	-0.400	-0.137					0.002							
288.0	ORIFICE	253	254					255							
	PRESSURE	880.5	996.9					1080.0							
	COEFF.	-0.318	-0.125					0.013							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1078.8	1086.7	1095.7						
	COEFF.						0.011	0.024	0.039						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		969.7					1126.9	1104.6	1104.4	1104.5				
	COEFF.		-0.170					0.090	0.053	0.053	0.053				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1121.2		1125.1	1127.5	1121.6	1124.8	1125.0	
	COEFF.							0.081		0.087	0.091	0.081	0.087	0.087	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1105.9	1125.0	1133.7						1088.4	1081.7	1083.2	
	COEFF.			0.056	0.087	0.102						0.027	0.015	0.018	
268.0	ORIFICE	216	217					218							
	PRESSURE	890.0	958.0					1036.9							
	COEFF.	-0.302	-0.189					-0.059							
260.0	ORIFICE	207			208										209
	PRESSURE	873.9			998.4										990.6
	COEFF.	-0.329			-0.122										-0.135

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	3	P436-03	TF-556	2/ 4/81	35: 2:34:50	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.897	1807.6	1072.4	603.6	3.541	100.4	560.1	13624.	1089.9	717.7	0.50	1.183	0.567

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			813.6			851.2	912.4		1053.0		
	COEFFICIENT			-0.429			-0.366	-0.265		-0.032		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				799.6		1033.9	1141.4		1072.1		
	COEFFICIENT				-0.452		-0.064	0.114		-0.009		
277.5	ORIFICE							276		277		
	PRESSURE							1085.9		1124.9		
	COEFFICIENT							0.022		0.087		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1088.8		1080.3
	COEFFICIENT						9.999	9.999		0.027		0.013
260.0	ORIFICE	291B	292B									
	PRESSURE	1179.7	1162.4									
	COEFFICIENT	0.178	0.149									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1006.4	1006.2
	COEFFICIENT	-0.109	-0.110

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.238	0.238	0.153	0.117	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.085	0.415	0.199	0.124	0.092
273.0	ORIFICE	401	402	403	404	
	VALUE	0.161	0.092	0.074	0.068	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	4	P436-03	TF-556	2/ 4/81	35: 2:35:46	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.900	1814.9	1073.6	608.1	3.561	100.1	559.8	17596.	1091.2	723.7	0.50	1.183	0.535

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1198.6	918.0	954.4	1036.8	996.3	955.0									
	COEFF.	0.206	-0.256	-0.196	-0.061	-0.127	-0.195									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1358.0	833.4	890.5	1047.1	1040.8	932.9									
	COEFF.	0.468	-0.395	-0.301	-0.044	-0.054	-0.231									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							770.8	766.3	786.0	878.6	883.1	904.8			
	COEFF.							-0.498	-0.505	-0.473	-0.321	-0.313	-0.278			
	ORIFICE													*301*	*302*	*303*
282.0	PRESSURE													868.5	883.2	902.1
	COEFF.													-0.337	-0.313	-0.282
	ORIFICE	220	221	222												
278.0	PRESSURE	1378.2	740.1	939.5												
	COEFF.	0.501	-0.548	-0.221												
	ORIFICE				223	224	225									
277.0	PRESSURE				1057.6	1045.9	948.1									
	COEFF.				-0.026	-0.046	-0.206									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													910.6	921.5	939.9
	COEFF.													-0.268	-0.250	-0.220
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1401.3	777.8	1013.8	1055.3	1059.8	972.7									
	COEFF.	0.539	-0.486	-0.098	-0.030	-0.023	-0.166									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1417.4	882.5	1026.8	1054.5	1062.3	1001.8									
	COEFF.	0.565	-0.314	-0.077	-0.031	-0.018	-0.118									

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	4	P43G-03	TF-556	2/ 4/81	35: 2:35:46	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.900	1814.9	1073.6	608.1	3.561	100.1	559.8	17596.	1091.2	723.7	0.50	1.183	0.535

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	905.6			1066.2										1140.4
	COEFF.	-0.276			-0.012										0.110
290.0	ORIFICE	232	233					234							
	PRESSURE	831.2	988.8					1075.3							
	COEFF.	-0.398	-0.139					0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	873.1	995.9					1080.9							
	COEFF.	-0.330	-0.128					0.012							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1078.6	1086.2	1095.1						
	COEFF.						0.008	0.021	0.035						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		968.1					1128.2	1104.4	1104.4	1109.1				
	COEFF.		-0.173					0.090	0.051	0.051	0.058				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1124.3		1128.1	1126.8	1121.7	1126.5	1125.6	
	COEFF.							0.083		0.090	0.088	0.079	0.087	0.086	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1114.4	1134.2	1142.0						1091.8	1085.3	1084.9	
	COEFF.			0.067	0.100	0.113						0.030	0.019	0.019	
268.0	ORIFICE	216	217					218							
	PRESSURE	889.7	959.5					1038.2							
	COEFF.	-0.302	-0.188					-0.058							
260.0	ORIFICE	207			208										209
	PRESSURE	871.5			999.4										993.4
	COEFF.	-0.332			-0.122										-0.132

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	4	P436-03	TF-556	2/ 4/81	35: 2:35:46	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.900	1814.9	1073.6	608.1	3.561	100.1	559.8	17596.	1091.2	723.7	0.50	1.183	0.535

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	x/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			804.7			854.5	915.7		1054.6		
	COEFFICIENT			-0.442			-0.360	-0.260		-0.031		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				768.3		1039.4	1151.5		1076.8		
	COEFFICIENT				-0.469		-0.056	0.128		0.005		
277.5	ORIFICE							276		277		
	PRESSURE							1089.0		1114.2		
	COEFFICIENT							0.025		0.067		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1091.3		1082.9
	COEFFICIENT						9.999	9.999		0.029		0.015
260.0	ORIFICE	291B	292B									
	PRESSURE	1182.5	1165.9									
	COEFFICIENT	0.179	0.152									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1007.0	1006.7
	COEFFICIENT	-0.110	-0.110

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.237	0.240	0.155	0.120	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.092	0.411	0.211	0.130	0.095
273.0	ORIFICE	401	402	403	404	
	VALUE	0.169	0.093	0.078	0.070	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. PA36-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	5	PA36-03	TF-556	2/ 4/81	35: 2:36:17	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.8	1073.7	608.0	3.566	99.5	559.2	17594.	1091.3	723.5	0.50	1.183	0.535

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1198.0	917.5	953.9	1036.2	999.3	954.8									
	COEFF.	0.205	-0.257	-0.197	-0.062	-0.122	-0.195									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1357.9	833.5	891.0	1047.5	1040.7	932.9									
	COEFF.	0.467	-0.395	-0.301	-0.043	-0.054	-0.232									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							770.5	765.8	785.4	879.4	883.9	905.7			
	COEFF.							-0.499	-0.506	-0.474	-0.320	-0.312	-0.276			
	ORIFICE													*301*	*302*	*303*
282.0	PRESSURE													866.9	882.0	901.3
	COEFF.													-0.340	-0.315	-0.284
	ORIFICE	220	221	222												
278.0	PRESSURE	1377.7	740.0	939.1												
	COEFF.	0.500	-0.549	-0.221												
	ORIFICE				223	224	225									
277.0	PRESSURE				1057.4	1045.7	948.3									
	COEFF.				-0.027	-0.046	-0.206									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													909.9	920.6	939.0
	COEFF.													-0.269	-0.252	-0.222
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1400.4	777.2	1013.4	1054.8	1059.0	972.0									
	COEFF.	0.537	-0.488	-0.099	-0.031	-0.024	-0.167									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1416.9	883.5	1026.4	1054.8	1062.2	1001.5									
	COEFF.	0.565	-0.313	-0.078	-0.031	-0.019	-0.119									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
42	5	P436-03	TF-556	2/ 4/81	35: 2:36:17	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.8	1073.7	608.0	3.566	99.5	559.2	17594.	1091.3	723.5	0.50	1.183	0.535

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV		X/C = 0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	905.7			1066.6										1139.7
	COEFF.	-0.276			-0.012										0.109
290.0	ORIFICE	232	233					234							
	PRESSURE	831.6	988.4					1075.0							
	COEFF.	-0.398	-0.140					0.002							
288.0	ORIFICE	253	254					255							
	PRESSURE	870.7	995.5					1081.0							
	COEFF.	-0.334	-0.129					0.012							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1078.3	1086.3	1095.8						
	COEFF.						0.008	0.021	0.036						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		968.0					1128.0	1104.7	1105.2	1107.7				
	COEFF.		-0.174					0.089	0.051	0.052	0.056				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1122.6		1126.0	1127.4	1121.8	1126.6	1125.5	
	COEFF.							0.081		0.086	0.088	0.079	0.087	0.085	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1112.3	1132.3	1138.7						1090.2	1083.5	1085.5	
	COEFF.			0.064	0.096	0.107						0.027	0.016	0.019	
268.0	ORIFICE	216	217					218							
	PRESSURE	888.9	958.8					1037.8							
	COEFF.	-0.304	-0.189					-0.059							
260.0	ORIFICE	207			208										209
	PRESSURE	871.5			999.0										993.1
	COEFF.	-0.333			-0.123										-0.133

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
42	5	P436-03	TF-556	2/ 4/81	35: 2:36:17	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.8	1073.7	608.0	3.566	99.5	559.2	1759A.	1091.3	723.5	0.50	1.183	0.535

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			806.0			855.0	916.4		1054.6		
	COEFFICIENT			-0.440			-0.360	-0.259		-0.031		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				790.2		1038.0	1150.0		1076.3		
	COEFFICIENT				-0.466		-0.059	0.126		0.004		
277.5	ORIFICE							276		277		
	PRESSURE							1088.2		1110.1		
	COEFFICIENT							0.024		0.069		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1091.4		1082.8
	COEFFICIENT						9.999	9.999		0.029		0.015
260.0	ORIFICE	291B	292B									
	PRESSURE	1182.3	1165.9									
	COEFFICIENT	0.179	0.152									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1006.8	1006.5
	COEFFICIENT	-0.110	-0.111

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.236	0.237	0.156	0.120		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.095	0.420	0.213	0.131	0.094	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.167	0.095	0.076	0.069		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	6	P436-03	TF-556	2/ 4/81	35: 2:36:46	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.1	1073.8	607.5	3.561	99.9	559.6	17591.	1091.4	722.7	0.50	1.183	0.535

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1198.4	918.4	954.7	1036.8	1000.7	955.0									
	COEFF.	-0.205	-0.256	-0.196	-0.061	-0.120	-0.196									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1357.3	833.6	891.6	1046.7	1040.6	932.7									
	COEFF.	0.467	-0.395	-0.300	-0.045	-0.055	-0.232									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							770.8	766.5	786.4	879.9	884.4	905.8			
	COEFF.							-0.499	-0.506	-0.473	-0.319	-0.312	-0.277			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												867.6	882.5	901.4	
	COEFF.												-0.339	-0.315	-0.284	
	ORIFICE	220	221	222												
278.0	PRESSURE	1377.6	740.5	940.3												
	COEFF.	0.500	-0.549	-0.220												
	ORIFICE				223	224	225									
277.0	PRESSURE				1057.8	1046.0	948.2									
	COEFF.				-0.026	-0.046	-0.207									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													910.5	921.6	940.2
	COEFF.													-0.269	-0.251	-0.220
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1400.7	778.4	1014.5	1055.3	1059.4	972.6									
	COEFF.	0.538	-0.486	-0.098	-0.030	-0.024	-0.167									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1417.2	884.8	1027.0	1056.2	1062.7	1001.6									
	COEFF.	0.565	-0.311	-0.077	-0.029	-0.018	-0.119									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	6	P436-03	TF-556	2/ 4/81	35: 2:36:46	0.	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.1	1073.8	607.5	3.561	99.9	559.6	17591.	1091.4	722.7	0.50	1.183	0.532

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.76	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	906.9			1066.5										1140.4
	COEFF.	-0.275			-0.012										0.110
290.0	ORIFICE	232	233					234							
	PRESSURE	831.7	989.1					1075.1							
	COEFF.	-0.398	-0.139					0.002							
288.0	ORIFICE	253	254					255							
	PRESSURE	869.5	995.9					1080.8							
	COEFF.	-0.336	-0.128					0.011							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1078.2	1086.4	1095.9						
	COEFF.						0.007	0.021	0.036						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		969.7					1128.1	1105.0	1105.1	1108.8				
	COEFF.		-0.173					0.089	0.051	0.051	0.058				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1122.7		1126.3	1127.2	1121.4	1126.3	1125.4	
	COEFF.							0.081		0.087	0.088	0.078	0.086	0.085	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1114.4	1134.1	1138.8						1089.9	1083.4	1086.6	
	COEFF.			0.067	0.099	0.107						0.027	0.016	0.021	
268.0	ORIFICE	216	217					218							
	PRESSURE	890.2	959.6					1038.0							
	COEFF.	-0.302	-0.188					-0.059							
260.0	ORIFICE	207			208										209
	PRESSURE	873.0			999.9										993.5
	COEFF.	-0.331			-0.122										-0.132

DATE 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	6	P436-03	TF-556	2/ 4/81	35: 2:36:46	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.1	1073.8	607.5	3.561	99.9	559.6	17591.	1091.4	722.7	0.50	1.183	0.535

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			805.3			855.0	916.5		1054.5		
	COEFFICIENT			-0.442			-0.360	-0.259		-0.032		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				789.2		1039.6	1150.6		1076.2		
	COEFFICIENT				-0.469		-0.056	0.127		0.004		
277.5	ORIFICE							276		277		
	PRESSURE							1088.5		1107.1		
	COEFFICIENT							0.024		0.055		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1091.3		1082.6
	COEFFICIENT						9.999	9.999		0.029		0.014
260.0	ORIFICE	291B	292B									
	PRESSURE	1182.4	1166.3									
	COEFFICIENT	0.179	0.152									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1006.8	1006.4
	COEFFICIENT	-0.110	-0.111

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.236	0.236	0.155	0.122	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.091	0.413	0.207	0.129	0.094
273.0	ORIFICE	401	402	403	404	
	VALUE	0.167	0.094	0.076	0.069	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	7	P436-03	TF-556	2/ 4/81	35: 2:37:17	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.6	1074.1	607.6	3.560	100.1	559.8	17585.	1091.7	722.9	0.50	1.183	0.535

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1198.8	919.0	955.5	1037.2	998.4	955.5									
	COEFF.	0.205	-0.255	-0.195	-0.061	-0.125	-0.195									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1358.1	834.2	892.3	1046.9	1041.1	933.5									
	COEFF.	0.467	-0.395	-0.299	-0.045	-0.054	-0.231									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							772.4	767.5	787.1	880.8	885.1	907.0			
	COEFF.							-0.496	-0.505	-0.472	-0.318	-0.311	-0.275			
	ORIFICE											*301*	*302*	*303*		
282.0	PRESSURE											868.3	882.8	901.9		
	COEFF.											-0.339	-0.315	-0.283		
	ORIFICE	220	221	222												
278.0	PRESSURE	1378.3	741.0	939.5												
	COEFF.	0.501	-0.548	-0.222												
	ORIFICE				223	224	225									
277.0	PRESSURE				1058.2	1046.3	948.8									
	COEFF.				-0.026	-0.046	-0.206									
	ORIFICE												*291*	*292*	*293*	
275.0	PRESSURE												910.4	921.1	939.6	
	COEFF.												-0.269	-0.252	-0.221	
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1401.3	778.2	1014.5	1055.7	1059.8	972.7									
	COEFF.	0.539	-0.487	-0.098	-0.030	-0.023	-0.167									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1417.8	884.4	1027.4	1054.8	1063.1	1002.3									
	COEFF.	0.566	-0.312	-0.077	-0.032	-0.018	-0.118									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	7	P436-03	TF-556	2/ 4/81	35: 2:37:17	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.6	1074.1	607.6	3.560	100.1	559.8	17585.	1091.7	722.9	0.50	1.183	0.535

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	907.1			1066.9										1140.8
	COEFF.	-0.275			-0.012										0.110
290.0	ORIFICE	232	233					234							
	PRESSURE	832.2	989.4					1075.8							
	COEFF.	-0.398	-0.139					0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	869.2	996.2					1081.5							
	COEFF.	-0.337	-0.128					0.012							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1079.3	1087.8	1097.1						
	COEFF.						0.009	0.023	0.038						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		968.5					1129.0	1106.4	1106.4	1108.7				
	COEFF.		-0.174					0.090	0.053	0.053	0.057				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1124.1		1130.1	1128.0	1122.4	1127.0	1126.3	
	COEFF.							0.082		0.092	0.089	0.079	0.087	0.086	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1111.9	1131.9	1140.2						1091.5	1084.8	1084.6	
	COEFF.			0.062	0.095	0.109						0.029	0.018	0.017	
268.0	ORIFICE	216	217					218							
	PRESSURE	889.8	959.8					1038.7							
	COEFF.	-0.303	-0.188					-0.058							
260.0	ORIFICE	207			208										209
	PRESSURE	872.8			1000.2										994.1
	COEFF.	-0.331			-0.122										-0.132

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOEF	SET	CART	
42	7	P436-03	TF-556	2/ 4/81	35: 2:37:17	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.6	1074.1	607.6	3.560	100.1	559.8	17585.	1091.7	722.9	0.50	1.183	0.535

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			807.0			856.3	917.1		1055.0		
	COEFFICIENT			-0.440			-0.358	-0.258		-0.034		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				790.7		1038.4	1150.7		1077.3		
	COEFFICIENT				-0.466		-0.059	0.126		0.005		
277.5	ORIFICE							276		277		
	PRESSURE							1088.8		1105.5		
	COEFFICIENT							0.024		0.052		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1092.1		1083.5
	COEFFICIENT						9.999	9.999		0.039		0.016
260.0	ORIFICE	291B	292B									
	PRESSURE	1183.0	1166.6									
	COEFFICIENT	0.179	0.152									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1007.3	1007.0
	COEFFICIENT	-0.110	-0.110

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.238	0.239	0.156	0.119	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.091	0.418	0.210	0.129	0.094
273.0	ORIFICE	401	402	403	404	
	VALUE	0.168	0.094	0.076	0.070	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY	HR	MIN	SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	8	P436-03	TF-556	2/ 4/81	35:	2:	37:	45	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.6	1073.7	607.9	3.564	99.7	559.4	17594.	1091.3	723.3	0.50	1.183	0.500

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1198.4	918.7	955.1	1036.7	1002.7	954.9									
	COEFF.	0.205	-0.255	-0.195	-0.061	-0.117	-0.195									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1357.5	833.9	891.8	1047.2	1040.6	932.6									
	COEFF.	0.467	-0.394	-0.299	-0.044	-0.054	-0.232									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							769.2	764.5	783.5	879.6	883.9	905.7			
	COEFF.							-0.501	-0.509	-0.477	-0.319	-0.312	-0.276			
	ORIFICE											*301*	*302*	*303*		
282.0	PRESSURE											868.4	883.3	902.6		
	COEFF.											-0.338	-0.313	-0.281		
	ORIFICE	220	221	222												
278.0	PRESSURE	1377.6	739.8	940.9												
	COEFF.	0.500	-0.549	-0.218												
	ORIFICE				223	224	225									
277.0	PRESSURE				1057.6	1045.9	948.2									
	COEFF.				-0.026	-0.046	-0.206									
	ORIFICE												*291*	*292*	*293*	
275.0	PRESSURE												910.0	920.8	939.6	
	COEFF.												-0.269	-0.252	-0.221	
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1400.1	777.7	1012.9	1054.6	1058.9	971.8									
	COEFF.	0.537	-0.487	-0.100	-0.031	-0.024	-0.168									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1417.0	883.2	1026.7	1052.6	1062.4	1001.9									
	COEFF.	0.565	-0.313	-0.077	-0.035	-0.019	-0.118									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	8	P436-03	TF-556	2/ 4/81	35: 2:37:45	0.	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.6	1073.7	607.9	3.564	99.7	559.4	17594.	1091.3	723.3	0.50	1.183	0.506

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	906.9			1066.6										1140.8
	COEFF.	-0.274			-0.012										0.110
290.0	ORIFICE	232	233					234							
	PRESSURE	831.7	989.2					1075.3							
	COEFF.	-0.398	-0.139					0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	868.4	995.8					1081.0							
	COEFF.	-0.338	-0.128					0.012							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1078.1	1086.8	1095.8						
	COEFF.						0.007	0.022	0.036						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		969.1					1127.7	1104.7	1104.5	1107.9				
	COEFF.		-0.172					0.089	0.051	0.051	0.056				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1124.1		1126.7	1124.0	1120.0	1125.3	1124.0	
	COEFF.							0.083		0.087	0.086	0.076	0.085	0.083	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1112.6	1131.9	1139.6						1091.3	1084.8	1085.0	
	COEFF.			0.064	0.096	0.108						0.029	0.018	0.019	
268.0	ORIFICE	216	217					218							
	PRESSURE	889.3	959.4					1038.3							
	COEFF.	-0.303	-0.188					-0.058							
260.0	ORIFICE	207			208										209
	PRESSURE	872.9			999.5										992.6
	COEFF.	-0.330			-0.121										-0.133

[illegible] 2-27-81 [illegible] 4-6-03
ARVIN CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	8	P43G-03	TF-556	2/ 4/81	35: 2:37:45	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.6	1073.7	607.9	3.564	99.7	559.4	17594.	1091.3	723.3	0.50	1.183	0.506

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			806.6			854.2	916.5		1054.1		
	COEFFICIENT			-0.439			-0.361	-0.259		-0.032		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				790.4		1037.9	1148.6		1076.1		
	COEFFICIENT				-0.466		-0.059	0.123		0.004		
277.5	ORIFICE							276		277		
	PRESSURE							1087.7		1103.5		
	COEFFICIENT							0.023		0.049		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1091.2		1082.6
	COEFFICIENT						9.999	9.999		0.029		0.015
260.0	ORIFICE	291B	292B									
	PRESSURE	1182.4	1166.0									
	COEFFICIENT	0.179	0.152									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE						261			262		
	PRESSURE						1005.0			1004.8		
	COEFFICIENT						-0.113			-0.113		

KULITE RMS VALUES

287.0	ORIFICE				410	411			412		413	
	VALUE				0.238	0.236			0.153		0.120	
278.0	ORIFICE				405	406			407		408	409
	VALUE				0.098	0.416			0.208		0.129	0.094
273.0	ORIFICE				401	402			403		404	
	VALUE				0.168	0.094			0.076		0.069	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	9	P436-03	TF-556	2/ 4/81	35: 2:38:16	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.900	1814.8	1073.5	608.1	3.568	99.3	559.0	17598.	1091.1	723.7	0.50	1.183	0.506

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

2V	X/C -	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1198.3	918.3	954.9	1036.7	999.6	955.0									
	COEFF.	0.205	-0.255	-0.195	-0.061	-0.121	-0.195									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1357.7	834.0	891.5	1046.8	1040.7	932.5									
	COEFF.	0.467	-0.394	-0.299	-0.044	-0.054	-0.232									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							769.8	765.3	785.2	879.2	883.7	905.5			
	COEFF.							-0.499	-0.507	-0.474	-0.320	-0.312	-0.276			
	ORIFICE											*301*	*302*	*303*		
282.0	PRESSURE											869.0	883.9	902.8		
	COEFF.											-0.336	-0.312	-0.281		
	ORIFICE	220	221	222												
278.0	PRESSURE	1378.0	740.1	939.4												
	COEFF.	0.501	-0.548	-0.221												
	ORIFICE				223	224	225									
277.0	PRESSURE				1057.6	1045.8	948.2									
	COEFF.				-0.026	-0.046	-0.206									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													910.4	921.4	940.0
	COEFF.													-0.268	-0.250	-0.219
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1400.0	776.5	1013.3	1054.4	1058.6	971.7									
	COEFF.	0.537	-0.488	-0.099	-0.031	-0.024	-0.167									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1417.2	883.9	1026.5	1055.5	1062.2	1001.4									
	COEFF.	0.565	-0.312	-0.077	-0.030	-0.019	-0.118									

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	9	P43G-03	TF-556	2/ 4/81	35: 2:38:16	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.900	1814.8	1073.5	608.1	3.568	99.3	559.0	17598.	1091.1	723.7	0.50	1.183	0.506

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	906.3			1066.4										1140.8
	COEFF.	-0.275			-0.012										0.111
290.0	ORIFICE	232	233					234							
	PRESSURE	831.5	988.4					1075.2							
	COEFF.	-0.398	-0.140					0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	868.4	995.3					1080.8							
	COEFF.	-0.337	-0.129					0.012							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1077.9	1086.1	1095.0						
	COEFF.						0.007	0.021	0.035						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		968.2					1127.4	1104.1	1104.1	1107.7				
	COEFF.		-0.173					0.089	0.050	0.050	0.056				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1123.7		1126.7	1125.8	1120.3	1126.0	1124.2	
	COEFF.							0.083		0.087	0.086	0.077	0.086	0.083	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1114.8	1134.5	1141.7						1091.1	1084.4	1082.0	
	COEFF.			0.068	0.100	0.112						0.029	0.018	0.014	
268.0	ORIFICE	216	217					218							
	PRESSURE	888.8	959.4					1038.1							
	COEFF.	-0.304	-0.188					-0.058							
260.0	ORIFICE	207			208										209
	PRESSURE	871.6			999.3										992.9
	COEFF.	-0.332			-0.122										-0.132

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	9	P43G-03	TF-556	2/ 4/81	35: 2:38:16	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.900	1814.8	1073.5	608.1	3.568	99.3	559.0	1759.0	1091.1	723.7	0.50	1.183	0.506

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			803.6			855.8	917.6		1054.0		
	COEFFICIENT			-0.444			-0.358	-0.256		-0.032		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				786.1		1039.3	1151.6		1076.8		
	COEFFICIENT				-0.473		-0.056	0.129		0.005		
277.5	ORIFICE							276		277		
	PRESSURE							1088.2		1102.6		
	COEFFICIENT							0.024		0.048		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1091.7		1082.8
	COEFFICIENT						9.999	9.999		0.030		0.015
260.0	ORIFICE	291B	292B									
	PRESSURE	1182.4	1166.4									
	COEFFICIENT	0.179	0.153									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1005.2	1004.9
	COEFFICIENT	-0.112	-0.113

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.236	0.236	0.159	0.120	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.101	0.432	0.217	0.134	0.094
273.0	ORIFICE	401	402	403	404	
	VALUE	0.170	0.095	0.076	0.070	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEL	CART	TRANSONIC 16T
42	10	P430-03	TF-556	2/ 4/81	35: 2:38:46	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	C	DP	WA	TPR	SHX10+3
0.899	1815.5	1074.8	607.8	3.569	99.2	558.9	17569.	1092.4	723.1	0.50	1.183	0.506

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 ROOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	1199.7	919.2	955.8	1037.6	1005.0	956.2									
	COEFF.	0.206	-0.256	-0.196	-0.061	-0.115	-0.195									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	1359.0	834.9	893.4	1047.7	1041.8	933.8									
	COEFF.	0.468	-0.395	-0.298	-0.045	-0.054	-0.232									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							772.9	768.2	787.8	881.5	885.8	907.9			
	COEFF.							-0.497	-0.504	-0.472	-0.318	-0.311	-0.275			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												870.3	885.2	904.6	
	COEFF.												-0.336	-0.312	-0.280	
278.0	ORIFICE	220	221	222												
	PRESSURE	1379.2	741.2	940.7												
	COEFF.	0.501	-0.549	-0.220												
277.0	ORIFICE				223	224	225									
	PRESSURE				1058.8	1046.9	949.3									
	COEFF.				-0.026	-0.046	-0.206									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													911.3	922.0	940.7
	COEFF.													-0.269	-0.251	-0.221
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	1402.2	779.2	1015.6	1056.3	1060.6	973.6									
	COEFF.	0.539	-0.486	-0.097	-0.030	-0.023	-0.166									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1418.4	884.7	1027.9	1054.9	1063.6	1002.7									
	COEFF.	0.565	-0.313	-0.077	-0.033	-0.018	-0.119									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOEF	SEL	CART	
42	10	P436-03	TF-556	2/ 4/81	35: 2:38:46	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1815.5	1074.8	607.8	3.569	99.2	558.9	17569.	1092.4	723.1	0.50	1.183	0.506

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	907.9			1067.4										1141.4
	COEFF.	-0.275			-0.012										0.110
290.0	ORIFICE	232	233					234							
	PRESSURE	832.4	990.1					1076.0							
	COEFF.	-0.399	-0.139					0.002							
288.0	ORIFICE	253	254					255							
	PRESSURE	869.4	997.2					1082.2							
	COEFF.	-0.338	-0.128					0.012							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1080.0	1088.5	1097.3						
	COEFF.						0.009	0.023	0.037						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		969.9					1129.3	1106.5	1106.9	1109.6				
	COEFF.		-0.172					0.090	0.052	0.053	0.057				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1125.7		1128.4	1129.5	1123.7	1128.6	1127.7	
	COEFF.							0.084		0.088	0.090	0.081	0.089	0.087	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1113.2	1133.1	1141.1						1092.8	1085.5	1083.1	
	COEFF.			0.063	0.096	0.109						0.029	0.018	0.014	
268.0	ORIFICE	216	217					218							
	PRESSURE	891.5	960.7					1039.4							
	COEFF.	-0.301	-0.188					-0.058							
260.0	ORIFICE	207			208										209
	PRESSURE	873.6			1000.6										993.8
	COEFF.	-0.331			-0.122										-0.133

DATE 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	10	P43G-03	TF-556	2/ 4/81	35: 2:38:46	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1815.5	1074.8	607.8	3.569	99.2	558.9	17569.	1092.4	723.1	0.50	1.183	0.506

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			807.5			856.1	917.3		1055.5		
	COEFFICIENT			-0.440			-0.360	-0.259		-0.032		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				792.0		1039.1	1150.3		1077.1		
	COEFFICIENT				-0.465		-0.059	0.124		0.004		
277.5	ORIFICE							276		277		
	PRESSURE							1089.4		1102.1		
	COEFFICIENT							0.024		0.045		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1092.4		1083.7
	COEFFICIENT						9.999	9.999		0.029		0.015
260.0	ORIFICE	291B	292B									
	PRESSURE	1183.5	1166.8									
	COEFFICIENT	0.179	0.151									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1006.2	1005.9
	COEFFICIENT	-0.113	-0.113

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.235	0.237	0.156	0.120	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.098	0.422	0.211	0.131	0.094
273.0	ORIFICE	401	402	403	404	
	VALUE	0.169	0.094	0.076	0.069	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	11	P436-03	TF-556	2/ 4/81	35: 2:39:17	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.0	1073.4	607.6	3.558	100.2	559.9	17601.	1091.0	723.0	0.50	1.183	0.506

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1198.4	917.9	954.1	1036.4	993.4	954.8									
	COEFF.	0.206	-0.256	-0.186	-0.061	-0.132	-0.195									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1357.3	833.2	891.5	1046.3	1040.2	932.3									
	COEFF.	0.467	-0.395	-0.299	-0.045	-0.055	-0.232									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							772.6	767.6	787.3	879.9	885.1	906.1			
	COEFF.							-0.495	-0.503	-0.471	-0.318	-0.310	-0.275			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												868.3	883.2	901.6	
	COEFF.												-0.338	-0.313	-0.283	
	ORIFICE	220	221	222												
278.0	PRESSURE	1377.3	740.3	938.7												
	COEFF.	0.500	-0.548	-0.222												
	ORIFICE				223	224	225									
277.0	PRESSURE				1057.4	1045.6	947.9									
	COEFF.				-0.026	-0.046	-0.207									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													910.3	921.1	939.5
	COEFF.													-0.268	-0.251	-0.220
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1400.4	777.4	1013.5	1054.9	1059.1	972.3									
	COEFF.	0.538	-0.487	-0.099	-0.030	-0.023	-0.166									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1416.9	883.4	1026.4	1049.9	1062.4	1001.8									
	COEFF.	0.565	-0.313	-0.077	-0.039	-0.018	-0.118									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	11	P436-03	TF-556	2/ 4/81	35: 2:39:17	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.0	1073.4	607.6	3.558	100.2	559.9	17601.	1091.0	723.0	0.50	1.183	0.506

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	906.4			1066.2										1140.5
	COEFF.	-0.275			-0.012										0.110
290.0	ORIFICE	232	233					234							
	PRESSURE	831.6	988.4					1074.8							
	COEFF.	-0.398	-0.140					0.002							
288.0	ORIFICE	253	254					255							
	PRESSURE	869.0	995.5					1080.4							
	COEFF.	-0.336	-0.128					0.012							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1078.2	1086.7	1095.9						
	COEFF.						0.008	0.022	0.037						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		968.3					1127.6	1105.3	1105.1	1107.6				
	COEFF.		-0.173					0.089	0.052	0.052	0.056				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1122.1		1127.0	1128.1	1122.3	1126.8	1126.7	
	COEFF.							0.080		0.088	0.090	0.081	0.088	0.088	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1113.0	1132.8	1140.1						1090.4	1083.6	1085.4	
	COEFF.			0.065	0.098	0.110						0.028	0.017	0.020	
268.0	ORIFICE	216	217					218							
	PRESSURE	890.3	959.3					1038.2							
	COEFF.	-0.301	-0.188					-0.058							
260.0	ORIFICE	207			208										209
	PRESSURE	872.3			999.5										992.7
	COEFF.	-0.331			-0.122										-0.133

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	11	P436-03	TF-556	2/ 4/81	35: 2:39:17	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.0	1073.4	607.6	3.558	100.2	559.9	17601.	1091.0	723.0	0.50	1.183	0.506

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			804.0			855.2	915.4		1054.2		
	COEFFICIENT			-0.443			-0.359	-0.260		-0.032		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				787.3		1037.7	1150.7		1076.4		
	COEFFICIENT				-0.471		-0.059	0.127		0.005		
277.5	ORIFICE							276		277		
	PRESSURE							1088.3		1101.0		
	COEFFICIENT							0.024		0.046		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1091.4		1082.4
	COEFFICIENT						9.999	9.999		0.030		0.015
260.0	ORIFICE	291B	292B									
	PRESSURE	1182.2	1166.2									
	COEFFICIENT	0.179	0.153									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1004.7	1004.4
	COEFFICIENT	-0.113	-0.114

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.235	0.233	0.154	0.120		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.106	0.427	0.214	0.132	0.094	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.169	0.099	0.077	0.070		

ACCELEROMETER RMS VALUES

1	2	3
8.6880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	12	P436-03	TF-556	2/ 4/81	35: 2:39:46	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.1	1073.4	607.7	3.564	99.5	559.2	17601.	1091.0	723.1	0.50	1.183	0.479

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1198.1	918.4	954.8	1036.7	1005.8	955.1									
	COEFF.	0.205	-0.255	-0.195	-0.060	-0.111	-0.195									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1357.3	833.6	891.3	1046.8	1040.6	932.6									
	COEFF.	0.467	-0.395	-0.300	-0.044	-0.054	-0.232									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							771.9	767.8	787.5	879.5	884.0	905.4			
	COEFF.							-0.496	-0.503	-0.470	-0.319	-0.312	-0.276			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												869.6	884.0	903.2	
	COEFF.												-0.335	-0.312	-0.280	
	ORIFICE	220	221	222												
278.0	PRESSURE	1377.5	740.8	938.9												
	COEFF.	0.500	-0.547	-0.221												
	ORIFICE				223	224	225									
277.0	PRESSURE				1057.7	1045.8	948.4									
	COEFF.				-0.026	-0.045	-0.206									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													911.1	921.9	940.5
	COEFF.													-0.267	-0.249	-0.219
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1400.3	777.4	1013.9	1054.9	1059.1	972.2									
	COEFF.	0.538	-0.487	-0.098	-0.030	-0.023	-0.167									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1417.1	884.4	1026.5	1053.5	1062.6	1001.9									
	COEFF.	0.566	-0.311	-0.077	-0.033	-0.018	-0.118									

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	12	P43G-03	TF-556	2/ 4/81	35: 2:39:46	0.	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.1	1073.4	607.7	3.564	99.5	559.2	17601.	1091.0	723.1	0.50	1.183	0.479

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	907.6			1066.3										1140.6
	COEFF.	-0.273			-0.012										0.111
290.0	ORIFICE	232	233					234							
	PRESSURE	832.4	988.8					1075.1							
	COEFF.	-0.397	-0.139					0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	869.0	995.5					1080.7							
	COEFF.	-0.336	-0.128					0.012							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1077.3	1085.6	1095.1						
	COEFF.						0.007	0.020	0.036						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		968.4					1128.1	1104.8	1104.9	1108.6				
	COEFF.		-0.173					0.090	0.052	0.052	0.058				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1124.1		1127.7	1127.1	1121.5	1126.5	1125.6	
	COEFF.							0.083		0.089	0.088	0.079	0.087	0.086	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1114.9	1134.5	1142.1						1091.9	1085.1	1085.4	
	COEFF.			0.068	0.101	0.113						0.030	0.019	0.020	
268.0	ORIFICE	216	217					218							
	PRESSURE	890.0	959.6					1038.3							
	COEFF.	-0.302	-0.187					-0.058							
260.0	ORIFICE	207			208										209
	PRESSURE	872.2			999.2										993.7
	COEFF.	-0.331			-0.122										-0.131

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	12	P43G-03	TF-556	2/ 4/81	35: 2:39:46	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.1	1073.4	607.7	3.564	99.5	559.2	17601.	1091.0	723.1	0.50	1.183	0.479

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
	ORIFICE			282			283	284		285		
282.0	PRESSURE			805.1			856.5	917.3		1054.6		
	COEFFICIENT			-0.441			-0.357	-0.257		-0.031		
	ORIFICE				278		279	280		281		
280.0	PRESSURE				788.5		1039.3	1151.9		1077.3		
	COEFFICIENT				-0.469		-0.056	0.129		0.006		
	ORIFICE							276		277		
277.5	PRESSURE							1088.4		1100.7		
	COEFFICIENT							0.025		0.045		
	ORIFICE						271	272		273		274
276.0	PRESSURE						0.0	0.0		1092.1		1083.3
	COEFFICIENT						9.999	9.999		0.031		0.016
	ORIFICE	291B	292B									
260.0	PRESSURE	1182.3	1166.3									
	COEFFICIENT	0.179	0.153									

INSIDE PRESSURE ORIFICES

	ORIFICE	261	262
276.0	PRESSURE	1005.3	1005.1
	COEFFICIENT	-0.112	-0.112

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.237	0.237	0.154	0.119	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.098	0.421	0.212	0.131	0.094
273.0	ORIFICE	401	402	403	404	
	VALUE	0.167	0.095	0.075	0.070	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	13	P43G-03	TF-556	2/ 4/81	35: 2:40:15	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1815.2	1074.2	608.0	3.556	100.8	560.5	17583.	1091.8	723.4	0.50	1.183	0.479

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1199.5	919.3	955.7	1037.3	1003.1	955.6									
	COEFF.	0.206	-0.255	-0.195	-0.061	-0.117	-0.195									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1358.4	834.4	891.3	1047.8	1041.3	933.3									
	COEFF.	0.467	-0.394	-0.301	-0.043	-0.054	-0.232									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							773.4	769.3	788.9	881.2	885.5	906.2			
	COEFF.							-0.495	-0.501	-0.469	-0.317	-0.310	-0.276			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												870.4	884.6	903.3	
	COEFF.												-0.335	-0.312	-0.281	
	ORIFICE	220	221	222												
278.0	PRESSURE	1378.2	740.8	940.3												
	COEFF.	0.500	-0.548	-0.220												
	ORIFICE				223	224	225									
277.0	PRESSURE				1058.2	1046.4	948.7									
	COEFF.				-0.026	-0.046	-0.206									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													912.1	922.7	941.4
	COEFF.													-0.267	-0.249	-0.218
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1400.9	778.2	1014.2	1055.2	1059.4	972.5									
	COEFF.	0.537	-0.487	-0.099	-0.031	-0.024	-0.167									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1418.0	884.9	1027.6	1055.7	1063.3	1002.7									
	COEFF.	0.565	-0.311	-0.077	-0.030	-0.018	-0.118									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	13	P436-03	TF-556	2/ 4/81	35: 2:40:15	0.	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1815.2	1074.2	608.0	3.556	100.8	560.5	17583.	1091.8	723.4	0.50	1.183	0.479

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	907.9			1066.7										1141.6
	COEFF.	-0.274			-0.012										0.111
290.0	ORIFICE	232	233					234							
	PRESSURE	832.9	988.8					1076.0							
	COEFF.	-0.397	-0.140					0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	868.8	995.7					1081.2							
	COEFF.	-0.338	-0.129					0.012							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1077.9	1087.0	1096.3						
	COEFF.						0.006	0.021	0.036						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		968.6					1128.2	1105.2	1105.5	1108.4				
	COEFF.		-0.174					0.089	0.051	0.051	0.056				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1124.2		1127.2	1127.0	1121.8	1126.7	1125.8	
	COEFF.							0.082		0.087	0.087	0.078	0.086	0.085	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1116.3	1136.3	1143.9						1092.0	1085.3	1083.2	
	COEFF.			0.069	0.102	0.115						0.029	0.018	0.015	
268.0	ORIFICE	216	217					218							
	PRESSURE	890.5	960.6					1038.5							
	COEFF.	-0.302	-0.187					-0.059							
260.0	ORIFICE	207			208										209
	PRESSURE	873.1			1000.2										993.5
	COEFF.	-0.331			-0.122										-0.133

DATE, 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	13	P436-03	TF-556	2/ 4/81	35: 2:40:15	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1815.2	1074.2	608.0	3.556	100.8	560.5	17583.	1091.8	723.4	0.50	1.183	0.479

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			802.9			858.5	918.6		1054.9		
	COEFFICIENT			-0.446			-0.355	-0.256		-0.032		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				785.7		1040.5	1154.9		1078.9		
	COEFFICIENT				-0.474		-0.055	0.133		0.008		
277.5	ORIFICE							276		277		
	PRESSURE							1090.4		1100.3		
	COEFFICIENT							0.027		0.043		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1091.9		1083.4
	COEFFICIENT						9.999	9.999		0.029		0.015
260.0	ORIFICE	291B	292B									
	PRESSURE	1183.0	1166.8									
	COEFFICIENT	0.179	0.152									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1005.6	1005.4
	COEFFICIENT	-0.113	-0.113

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.236	0.235	0.153	0.119		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.098	0.420	0.211	0.130	0.094	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.168	0.095	0.076	0.069		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
42	14	P436-03	TF-556	2/ 4/81	35: 2:40:46	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.4	1074.2	607.4	3.567	99.2	558.9	17583.	1091.8	722.6	0.50	1.183	0.479

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1198.4	918.1	954.7	1036.7	1000.6	955.0									
	COEFF.	0.204	-0.257	-0.197	-0.062	-0.121	-0.196									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1358.1	834.5	892.4	1047.1	1041.2	933.8									
	COEFF.	0.467	-0.395	-0.299	-0.045	-0.054	-0.231									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							772.1	767.8	787.2	880.3	884.8	906.6			
	COEFF.							-0.497	-0.504	-0.472	-0.319	-0.312	-0.276			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												868.0	882.5	901.8	
	COEFF.												-0.339	-0.316	-0.284	
	ORIFICE	220	221	222												
278.0	PRESSURE	1377.9	740.6	938.9												
	COEFF.	0.500	-0.549	-0.223												
	ORIFICE				223	224	225									
277.0	PRESSURE				1058.1	1046.1	948.9									
	COEFF.				-0.026	-0.046	-0.206									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													911.6	922.6	941.3
	COEFF.													-0.268	-0.250	-0.219
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1400.6	777.2	1013.4	1055.0	1059.2	972.2									
	COEFF.	0.537	-0.489	-0.100	-0.032	-0.025	-0.168									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1417.4	883.8	1026.6	1052.5	1062.4	1001.8									
	COEFF.	0.565	-0.313	-0.078	-0.036	-0.019	-0.119									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	14	P436-03	TF-556	2/ 4/81	35: 2:40:46	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.4	1074.2	607.4	3.567	99.2	558.9	17583.	1091.8	722.6	0.50	1.183	0.479

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	907.5			1067.0										1140.8
	COEFF.	-0.274			-0.012										0.110
290.0	ORIFICE	232	233					234							
	PRESSURE	832.4	989.2					1075.3							
	COEFF.	-0.398	-0.140					0.002							
288.0	ORIFICE	253	254					255							
	PRESSURE	868.7	996.1					1081.3							
	COEFF.	-0.338	-0.129					0.012							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1078.6	1087.3	1096.3						
	COEFF.						0.007	0.022	0.036						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		968.6					1128.1	1105.0	1105.0	1106.6				
	COEFF.		-0.174					0.089	0.051	0.051	0.053				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1123.1		1126.3	1127.0	1121.4	1126.3	1125.6	
	COEFF.							0.081		0.086	0.087	0.078	0.086	0.085	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1116.0	1135.3	1141.2						1090.3	1084.2	1083.2	
	COEFF.			0.069	0.101	0.110						0.027	0.017	0.015	
268.0	ORIFICE	216	217					218							
	PRESSURE	889.5	960.1					1038.5							
	COEFF.	-0.304	-0.188					-0.059							
260.0	ORIFICE	207			208										209
	PRESSURE	872.1			1000.5										993.5
	COEFF.	-0.333			-0.121										-0.133

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	14	P436-03	TF-556	2/ 4/81	35: 2:40:46	0'	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1814.4	1074.2	607.4	3.567	99.2	558.9	17583.	1091.8	722.6	0.50	1.183	0.479

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			804.8			856.5	918.1		1055.0		
	COEFFICIENT			-0.443			-0.358	-0.257		-0.032		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				787.7		1039.6	1152.4		1077.7		
	COEFFICIENT				-0.472		-0.057	0.129		0.006		
277.5	ORIFICE							276		277		
	PRESSURE							1089.1		1100.1		
	COEFFICIENT							0.025		0.043		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1091.9		1083.5
	COEFFICIENT						9.999	9.999		0.029		0.015
260.0	ORIFICE	291B	292B									
	PRESSURE	1182.7	1166.3									
	COEFFICIENT	0.179	0.152									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1005.5	1005.0
	COEFFICIENT	-0.113	-0.114

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.238	0.235	0.156	0.120		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.101	0.424	0.215	0.132	0.094	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.167	0.095	0.076	0.070		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	15	P436-03	TF-556	2/ 4/81	35: 2:41:14	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1815.7	1075.0	607.9	3.558	100.6	560.3	17565.	1092.6	723.1	0.50	1.183	0.479

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1200.1	920.0	956.4	1037.7	998.9	956.4									
	COEFF.	0.206	-0.255	-0.195	-0.061	-0.125	-0.195									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1359.0	835.1	892.5	1048.5	1042.0	933.8									
	COEFF.	0.467	-0.395	-0.300	-0.044	-0.054	-0.232									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							774.8	771.4	790.2	881.5	885.0	907.4			
	COEFF.							-0.494	-0.499	-0.469	-0.318	-0.311	-0.276			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												870.5	885.4	903.9	
	COEFF.												-0.336	-0.312	-0.281	
	ORIFICE	220	221	222												
278.0	PRESSURE	1379.2	741.5	940.5												
	COEFF.	0.501	-0.549	-0.221												
	ORIFICE				223	224	225									
277.0	PRESSURE				1059.0	1047.2	949.5									
	COEFF.				-0.026	-0.046	-0.206									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													912.6	923.5	941.8
	COEFF.													-0.267	-0.249	-0.219
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1402.7	779.4	1015.8	1056.7	1061.2	974.1									
	COEFF.	0.539	-0.486	-0.097	-0.030	-0.023	-0.166									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1419.1	884.4	1028.1	1056.4	1064.0	1003.1									
	COEFF.	0.566	-0.313	-0.077	-0.031	-0.018	-0.118									

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOEF	SET	CART	TRANSONIC 16T
42	15	P43G-03	TF-556	2/ 4/81	35: 2:41:14	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1815.7	1075.0	607.9	3.558	100.6	560.3	17565.	1092.6	723.1	0.50	1.183	0.479

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	908.7			1067.6										1142.3
	COEFF.	-0.274			-0.012										0.111
290.0	ORIFICE	232	233					234							
	PRESSURE	833.4	989.8					1076.6							
	COEFF.	-0.397	-0.140					0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	869.8	996.8					1082.2							
	COEFF.	-0.338	-0.129					0.012							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1079.4	1088.1	1097.1						
	COEFF.						0.007	0.022	0.036						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		969.5					1129.1	1106.0	1106.3	1109.8				
	COEFF.		-0.174					0.089	0.051	0.051	0.057				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1124.8		1128.2	1128.9	1123.7	1128.4	1127.7	
	COEFF.							0.082		0.088	0.089	0.080	0.088	0.087	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1116.5	1136.4	1143.2						1092.6	1085.7	1087.6	
	COEFF.			0.068	0.101	0.112						0.029	0.018	0.021	
268.0	ORIFICE	216	217					218							
	PRESSURE	891.9	961.4					1039.5							
	COEFF.	-0.301	-0.187					-0.058							
260.0	ORIFICE	207			208										209
	PRESSURE	873.6			1000.6										994.0
	COEFF.	-0.331			-0.122										-0.133

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	15	P436-03	TF-556	2/ 4/81	35: 2:41:14	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1815.7	1075.0	607.9	3.558	100.6	560.3	17565.	1092.6	723.1	0.50	1.183	0.479

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			804.2			858.9	919.2		1055.7		
	COEFFICIENT			-0.445			-0.355	-0.256		-0.032		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				786.5		1042.6	1154.8		1079.2		
	COEFFICIENT				-0.475		-0.053	0.131		0.007		
277.5	ORIFICE							276		277		
	PRESSURE							1090.7		1100.5		
	COEFFICIENT							0.026		0.042		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1092.9		1084.3
	COEFFICIENT						9.999	9.999		0.029		0.015
260.0	ORIFICE	291B	292B									
	PRESSURE	1184.0	1167.4									
	COEFFICIENT	0.179	0.152									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1006.6	1006.1
	COEFFICIENT	-0.113	-0.113

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.238	0.239	0.158	0.121		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.098	0.420	0.218	0.133	0.094	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.171	0.096	0.077	0.070		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
42	16	P436-03	TF-556	2/ 4/81	35: 2:41:45	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	C	DP	WA	TPR	SHX10+3
0.899	1813.4	1072.8	607.6	3.553	100.7	560.4	17614.	1090.4	723.0	0.50	1.183	0.453

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	1197.2	917.2	953.5	1035.5	997.3	954.4									
	COEFF.	0.205	-0.256	-0.196	-0.061	-0.124	-0.195									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1356.5	832.8	890.9	1045.6	1039.4	931.5									
	COEFF.	0.467	-0.395	-0.299	-0.045	-0.055	-0.233									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							773.0	768.3	788.0	879.3	883.4	905.0			
	COEFF.							-0.493	-0.501	-0.469	-0.318	-0.312	-0.276			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												866.6	880.6	898.7	
	COEFF.												-0.339	-0.316	-0.287	
	ORIFICE	220	221	222												
278.0	PRESSURE	1376.5	739.8	937.0												
	COEFF.	0.500	-0.548	-0.223												
	ORIFICE				223	224	225									
277.0	PRESSURE				1056.8	1044.9	947.1									
	COEFF.				-0.026	-0.046	-0.207									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													910.0	920.8	938.9
	COEFF.													-0.268	-0.250	-0.220
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1400.2	776.7	1013.2	1054.5	1058.8	972.0									
	COEFF.	0.539	-0.487	-0.098	-0.030	-0.023	-0.166									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1416.5	882.2	1025.9	1053.9	1061.6	1001.1									
	COEFF.	0.566	-0.314	-0.077	-0.031	-0.018	-0.118									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
42	16	P436-03	TF-556	2/ 4/81	35: 2:41:45	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1813.4	1072.8	607.6	3.553	100.7	560.4	17614.	1090.4	723.0	0.50	1.183	0.453

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	906.1			1065.8										1139.8
	COEFF.	-0.274			-0.012										0.110
290.0	ORIFICE	232	233					234							
	PRESSURE	831.2	987.2					1073.9							
	COEFF.	-0.398	-0.141					0.002							
288.0	ORIFICE	253	254					255							
	PRESSURE	868.8	994.4					1079.6							
	COEFF.	-0.336	-0.129					0.011							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						1077.4	1085.4	1095.1						
	COEFF.						0.008	0.021	0.037						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		967.1					1126.9	1104.2	1104.3	1107.6				
	COEFF.		-0.174					0.089	0.052	0.052	0.057				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							1120.6		1124.5	1127.8	1121.7	1126.4	1126.1	
	COEFF.							0.079		0.085	0.090	0.081	0.088	0.088	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			1112.6	1132.5	1137.8						1088.2	1081.7	1083.7	
	COEFF.			0.065	0.098	0.107						0.025	0.015	0.018	
268.0	ORIFICE	216	217					218							
	PRESSURE	889.3	958.8					1036.9							
	COEFF.	-0.302	-0.188					-0.059							
260.0	ORIFICE	207			208										209
	PRESSURE	870.8			998.9										991.8
	COEFF.	-0.332			-0.122										-0.133

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
42	16	P436-03	TF-556	2/ 4/81	35: 2141145	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.899	1813.4	1072.8	607.6	3.553	100.7	560.4	17614.	1090.4	723.0	0.50	1.183	0.453

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			802.8			855.6	916.5		1053.7		
	COEFFICIENT			-0.444			-0.358	-0.257		-0.031		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				785.8		1038.0	1151.9		1076.5		
	COEFFICIENT				-0.472		-0.057	0.130		0.006		
277.5	ORIFICE							276		277		
	PRESSURE							1087.6		1099.0		
	COEFFICIENT							0.024		0.043		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		1091.0		1082.1
	COEFFICIENT						9.999	9.999		0.030		0.015
260.0	ORIFICE	2918	2928									
	PRESSURE	1181.6	1165.7									
	COEFFICIENT	0.179	0.153									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	1003.8	1003.4
	COEFFICIENT	-0.114	-0.114

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.238	0.235	0.154	0.122	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.102	0.426	0.216	0.132	0.094
273.0	ORIFICE	401	402	403	404	
	VALUE	0.169	0.095	0.077	0.070	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	1	P436-03	TF-556	2/ 4/81	35: 2:49:33	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1608.2	754.3	637.5	3.333	99.9	559.6	25890.	769.5	838.7	0.50	1.202	0.484

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	936.8	570.5	572.8	673.5	761.2	711.4									
	COEFF.	0.286	-0.288	-0.285	-0.127	0.011	-0.067									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	1116.4	487.0	543.6	722.7	776.9	694.9									
	COEFF.	0.568	-0.419	-0.331	-0.050	0.035	-0.093									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							459.9	436.6	436.4	463.4	454.9	492.1			
	COEFF.							-0.462	-0.498	-0.499	-0.456	-0.470	-0.411			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												449.1	456.4	473.1	
	COEFF.												-0.479	-0.467	-0.441	
278.0	ORIFICE	220	221	222												
	PRESSURE	1135.5	437.9	605.7												
	COEFF.	0.598	-0.496	-0.233												
277.0	ORIFICE				223	224	225									
	PRESSURE				742.9	742.9	736.4									
	COEFF.				-0.018	-0.018	-0.028									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													501.8	511.8	527.7
	COEFF.													-0.396	-0.380	-0.355
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	1150.8	488.7	621.1	752.6	737.8	751.9									
	COEFF.	0.622	-0.417	-0.209	-0.003	-0.026	-0.004									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1165.6	498.3	697.5	758.9	758.1	751.5									
	COEFF.	0.645	-0.402	-0.089	0.007	0.006	-0.004									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
43	1	P436-03	TF-556	2/ 4/81	35: 2:49:33	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1608.2	754.3	637.5	3.333	99.9	559.6	25890.	769.5	838.7	0.50	1.202	0.484

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	326.1			649.4										784.4
	COEFF.	-0.672			-0.164										0.047
290.0	ORIFICE	232	233					234							
	PRESSURE	384.7	482.0					713.6							
	COEFF.	-0.580	-0.427					-0.064							
288.0	ORIFICE	253	254					255							
	PRESSURE	486.8	523.4					699.1							
	COEFF.	-0.420	-0.362					-0.087							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						685.4	697.4	701.1						
	COEFF.						-0.108	-0.089	-0.083						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		559.4					691.8	707.0	710.5	715.5				
	COEFF.		-0.306					-0.098	-0.074	-0.069	-0.061				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							705.1		709.8	713.9	741.6	758.7	772.7	
	COEFF.							-0.077		-0.070	-0.063	-0.020	0.007	0.029	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			684.9	706.0	724.6						719.4	718.4	727.0	
	COEFF.			-0.109	-0.076	-0.047						-0.054	-0.056	-0.043	
268.0	ORIFICE	216	217					218							
	PRESSURE	444.5	609.1					667.1							
	COEFF.	-0.486	-0.228					-0.137							
260.0	ORIFICE	207			208										209
	PRESSURE	532.9			637.4										642.3
	COEFF.	-0.347			-0.183										-0.176

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	1	P436-03	TF-556	2/ 4/81	35: 2:49:33	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1608.2	754.3	637.5	3.333	99.9	559.6	25890.	769.5	838.7	0.50	1.202	0.484

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			410.7			421.4	466.5		609.3		
	COEFFICIENT			-0.539			-0.522	-0.451		-0.227		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				409.3		572.3	753.3		677.7		
	COEFFICIENT				-0.541		-0.285	-0.001		-0.120		
277.5	ORIFICE							276		277		
	PRESSURE							755.1		772.5		
	COEFFICIENT							0.001		0.029		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		768.7		730.0
	COEFFICIENT						9.999	9.999		0.023		-0.038
260.0	ORIFICE	291B	292B									
	PRESSURE	890.8	884.0									
	COEFFICIENT	0.214	0.204									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	696.7	696.3
	COEFFICIENT	-0.090	-0.091

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.058	0.074	0.193	0.136		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.059	0.257	0.195	0.143	0.096	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.107	0.075	0.082	0.063		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
43	2	P436-03	TF-556	2/ 4/81	35: 2:49:52	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1607.8	753.7	637.5	3.331	100.1	559.8	25908.	768.9	838.9	0.50	1.201	0.484

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	936.1	569.9	572.8	670.8	760.4	711.0									
	COEFF.	0.286	-0.288	-0.284	-0.130	0.011	-0.067									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1116.1	484.5	543.3	724.6	775.4	694.8									
	COEFF.	0.568	-0.422	-0.330	-0.046	0.034	-0.092									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							459.3	436.4	435.8	463.2	454.9	490.8			
	COEFF.							-0.462	-0.498	-0.499	-0.456	-0.469	-0.412			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												449.4	456.4	473.2	
	COEFF.												-0.477	-0.466	-0.440	
	ORIFICE	220	221	222												
278.0	PRESSURE	1134.9	437.8	608.1												
	COEFF.	0.598	-0.496	-0.228												
	ORIFICE				223	224	225									
277.0	PRESSURE				742.3	741.7	736.1									
	COEFF.				-0.018	-0.019	-0.028									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													501.4	511.5	527.4
	COEFF.													-0.396	-0.380	-0.355
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1150.7	488.9	621.0	753.1	738.0	751.8									
	COEFF.	0.623	-0.415	-0.208	-0.001	-0.025	-0.003									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1164.9	498.1	697.1	757.3	758.0	750.7									
	COEFF.	0.645	-0.401	-0.089	0.006	0.007	-0.005									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
43	2	P436-03	TF-556	2/ 4/81	35: 2:49:52	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1607.8	753.7	637.5	3.331	100.1	559.8	25908.	768.9	838.9	0.50	1.201	0.484

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	326.3			648.1										783.0
	COEFF.	-0.670			-0.166										0.046
290.0	ORIFICE	232	233					234							
	PRESSURE	384.9	480.9					712.5							
	COEFF.	-0.578	-0.428					-0.065							
288.0	ORIFICE	253	254					255							
	PRESSURE	485.0	522.8					697.8							
	COEFF.	-0.422	-0.362					-0.088							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						684.8	696.4	700.3						
	COEFF.						-0.108	-0.090	-0.084						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		559.3					690.5	705.7	709.7	714.2				
	COEFF.		-0.305					=0.099	-0.075	-0.069	-0.062				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							704.3		708.7	712.9	740.4	758.1	772.1	
	COEFF.							-0.077		-0.071	-0.064	-0.021	0.007	0.029	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			684.4	705.4	723.6						719.8	717.6	726.8	
	COEFF.			-0.109	-0.076	-0.047						-0.053	-0.057	-0.042	
268.0	ORIFICE	216	217					218							
	PRESSURE	443.6	608.6					666.2							
	COEFF.	-0.486	-0.228					-0.137							
260.0	ORIFICE	207			208										209
	PRESSURE	531.7			636.6										641.7
	COEFF.	-0.348			-0.184										=0.176

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	2	P43G-03	TF-556	2/ 4/81	35: 2:49:52	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1607.8	753.7	637.5	3.331	100.1	559.8	25908.	768.9	838.9	0.50	1.201	0.484

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			410.7			421.2	466.5		608.1		
	COEFFICIENT			-0.538			-0.522	-0.450		-0.228		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				409.3		571.9	752.9		677.0		
	COEFFICIENT				-0.540		-0.285	-0.001		-0.120		
277.5	ORIFICE							276		277		
	PRESSURE							754.5		765.5		
	COEFFICIENT							0.001		0.019		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		769.4		729.2
	COEFFICIENT						9.999	9.999		0.025		-0.038
260.0	ORIFICE	291B	292B									
	PRESSURE	890.2	884.0									
	COEFFICIENT	0.214	0.204									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	696.1	695.8
	COEFFICIENT	-0.090	-0.091

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.057	0.072	0.190	0.136	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.059	0.257	0.195	0.145	0.096
273.0	ORIFICE	401	402	403	404	
	VALUE	0.106	0.075	0.082	0.063	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION. TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	3	P436-03	TF-556	2/ 4/81	35: 2:50:23	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1609.0	753.4	638.4	3.338	99.5	559.2	25917.	768.6	840.4	0.50	1.201	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	936.4	570.0	572.9	669.4	760.9	710.7									
	COEFF.	0.287	-0.287	-0.283	-0.132	0.012	-0.067									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1116.3	483.4	542.7	724.6	774.1	695.0									
	COEFF.	0.568	-0.423	-0.330	-0.045	0.032	-0.092									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							459.0	435.7	435.5	462.9	454.6	490.5			
	COEFF.							-0.461	-0.498	-0.498	-0.455	-0.468	-0.412			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												448.9	456.3	472.9	
	COEFF.												-0.477	-0.465	-0.439	
	ORIFICE	220	221	222												
278.0	PRESSURE	1135.2	437.3	607.8												
	COEFF.	0.598	-0.495	-0.228												
	ORIFICE				223	224	225									
277.0	PRESSURE				742.3	741.5	736.0									
	COEFF.				-0.017	-0.019	-0.027									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													500.9	511.1	527.0
	COEFF.													-0.396	-0.380	-0.355
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1150.4	488.0	619.8	753.3	738.2	751.3									
	COEFF.	0.622	-0.416	-0.209	-0.000	-0.024	-0.003									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1165.1	497.8	697.2	760.0	758.5	750.3									
	COEFF.	0.645	-0.400	-0.088	0.010	0.008	-0.005									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
43	3	P436-03	TF-556	2/ 4/81	35: 2:50:23	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1609.0	753.4	638.4	3.338	99.5	559.2	25917.	768.6	840.4	0.50	1.201	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	325.8			646.5										782.5
	COEFF.	-0.670			-0.167										0.046
290.0	ORIFICE	232	233					234							
	PRESSURE	384.9	480.5					711.3							
	COEFF.	-0.577	-0.428					-0.066							
288.0	ORIFICE	253	254					255							
	PRESSURE	481.3	522.1					696.3							
	COEFF.	-0.426	-0.362					-0.089							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						682.9	695.2	699.1						
	COEFF.						-0.110	-0.091	-0.085						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		558.2					689.5	705.0	708.8	713.9				
	COEFF.		-0.306					-0.100	-0.076	-0.070	-0.062				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							703.6		708.0	712.4	739.9	757.3	771.8	
	COEFF.							-0.078		-0.071	-0.064	-0.021	0.006	0.029	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			684.1	704.9	723.1						717.5	716.2	723.5	
	COEFF.			-0.108	-0.076	-0.047						-0.056	-0.058	-0.047	
268.0	ORIFICE	216	217					218							
	PRESSURE	441.8	608.3					665.8							
	COEFF.	-0.488	-0.227					-0.137							
260.0	ORIFICE	207			208										209
	PRESSURE	531.9			636.5										640.3
	COEFF.	-0.347			-0.183										-0.177

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
43	3	P436-03	TF-556	2/ 4/81	35: 2:50:23	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1609.0	753.4	638.4	3.338	99.5	559.2	25917.	768.6	840.4	0.50	1.201	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			409.7			421.3	467.1		606.8		
	COEFFICIENT			-0.538			-0.520	-0.449		-0.230		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				408.2		570.7	752.7		676.2		
	COEFFICIENT				-0.541		-0.286	-0.001		-0.121		
277.5	ORIFICE							276		277		
	PRESSURE							754.5		754.6		
	COEFFICIENT							0.002		0.002		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		769.0		728.1
	COEFFICIENT						9.999	9.999		0.024		-0.040
260.0	ORIFICE	291B	292B									
	PRESSURE	890.2	883.7									
	COEFFICIENT	0.214	0.204									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE						261			262		
	PRESSURE						695.6			695.3		
	COEFFICIENT						-0.091			-0.091		

KULITE RMS VALUES

287.0	ORIFICE			410	411			412		413		
	VALUE			0.071	0.073			0.190		0.138		
278.0	ORIFICE			405	406			407		408	409	
	VALUE			0.059	0.258			0.195		0.146	0.096	
273.0	ORIFICE			401	402			403		404		
	VALUE			0.107	0.076			0.081		0.063		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	4	P43G-03	TF-556	2/ 4/81	35: 2:51:16	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1609.3	753.6	638.5	3.337	99.7	559.4	25911.	768.8	840.5	0.50	1.201	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	936.4	570.7	573.2	670.1	760.0	710.8									
	COEFF.	0.286	-0.286	-0.283	-0.131	0.010	-0.067									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1116.3	485.5	542.7	723.2	774.7	694.8									
	COEFF.	0.568	-0.420	-0.330	-0.048	0.033	-0.092									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							458.8	435.7	435.0	462.7	454.4	490.5			
	COEFF.							-0.462	-0.498	-0.499	-0.456	-0.469	-0.412			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												448.6	456.5	473.3	
	COEFF.												-0.478	-0.465	-0.439	
	ORIFICE	220	221	222												
278.0	PRESSURE	1135.3	437.4	606.0												
	COEFF.	0.598	-0.495	-0.231												
	ORIFICE				223	224	225									
277.0	PRESSURE				742.2	741.5	736.1									
	COEFF.				-0.018	-0.019	-0.027									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													501.1	511.3	527.3
	COEFF.													-0.395	-0.380	-0.354
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1150.1	488.3	619.8	752.9	737.9	751.3									
	COEFF.	0.621	-0.416	-0.209	-0.001	-0.025	-0.004									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1165.0	498.0	697.5	761.1	758.2	750.8									
	COEFF.	0.644	-0.400	-0.088	0.012	0.007	-0.004									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	4	P436-03	TF-556	2/ 4/81	35: 2:51:16	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1609.3	753.6	638.5	3.337	99.7	559.4	25911.	768.8	840.5	0.50	1.201	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	325.9			647.2										783.0
	COEFF.	-0.670			-0.167										0.046
290.0	ORIFICE	232	233					234							
	PRESSURE	384.7	480.3					712.1							
	COEFF.	-0.578	-0.428					-0.065							
288.0	ORIFICE	253	254					255							
	PRESSURE	478.3	522.3					697.2							
	COEFF.	-0.431	-0.362					-0.088							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						683.8	695.4	699.6						
	COEFF.						-0.109	-0.091	-0.085						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		558.9					689.9	705.0	709.0	713.7				
	COEFF.		-0.305					-0.100	-0.076	-0.070	-0.062				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							704.2		708.4	712.1	739.9	757.5	771.6	
	COEFF.							-0.077		-0.071	-0.065	-0.021	0.006	0.028	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			684.1	705.1	723.9						718.6	717.0	723.9	
	COEFF.			-0.109	-0.076	-0.046						-0.055	-0.057	-0.047	
268.0	ORIFICE	216	217					218							
	PRESSURE	442.2	608.3					666.0							
	COEFF.	-0.488	-0.228					-0.137							
260.0	ORIFICE	207			208										209
	PRESSURE	531.9			636.7										640.7
	COEFF.	-0.347			-0.183										-0.177

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
43	4	P43G-03	TF-556	2/ 4/81	35: 2:51:16	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1609.3	753.6	638.5	3.337	99.7	559.4	25911.	768.8	840.5	0.50	1.201	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			410.0			421.5	466.5		607.4		
	COEFFICIENT			-0.538			-0.520	-0.450		-0.229		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				408.6		571.1	753.0		676.8		
	COEFFICIENT				-0.540		-0.286	-0.001		-0.120		
277.5	ORIFICE							276		277		
	PRESSURE							754.6		741.3		
	COEFFICIENT							0.002		-0.019		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		769.2		728.7
	COEFFICIENT						9.999	9.999		0.025		-0.039
260.0	ORIFICE	291B	292B									
	PRESSURE	890.2	884.0									
	COEFFICIENT	0.214	0.204									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	695.9	695.6
	COEFFICIENT	-0.090	-0.091

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.057	0.073	0.191	0.136	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.059	0.261	0.196	0.146	0.096
273.0	ORIFICE	401	402	403	404	
	VALUE	0.107	0.075	0.081	0.063	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
43	5	P436-03	TF-556	2/ 4/81	35: 2:51:47	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.102	1610.9	753.1	639.6	3.340	99.8	559.5	25927.	768.3	842.6	0.50	1.205	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	937.0	571.4	574.3	667.9	759.9	711.2									
	COEFF.	0.288	-0.284	-0.280	-0.133	0.011	-0.066									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1116.9	484.4	543.2	726.3	773.2	696.0									
	COEFF.	0.569	-0.420	-0.328	-0.042	0.031	-0.089									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							459.6	436.0	435.4	463.3	455.0	490.7			
	COEFF.							-0.459	-0.496	-0.497	-0.453	-0.466	-0.410			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												448.6	456.0	472.6	
	COEFF.												-0.476	-0.464	-0.439	
	ORIFICE	220	221	222												
278.0	PRESSURE	1135.8	438.0	607.5												
	COEFF.	0.598	-0.493	-0.228												
	ORIFICE				223	224	225									
277.0	PRESSURE				742.6	740.6	736.5									
	COEFF.				-0.016	-0.019	-0.026									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													501.3	511.4	527.5
	COEFF.													-0.394	-0.378	-0.353
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1150.8	488.9	620.0	754.3	739.5	751.3									
	COEFF.	0.622	-0.413	-0.208	0.002	-0.021	-0.003									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1165.4	497.8	697.1	756.4	759.1	750.0									
	COEFF.	0.645	-0.399	-0.088	0.005	0.008	-0.005									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD-SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	5	P436-03	TF-556	2/ 4/81	35: 2:51:47	0.	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.102	1610.9	753.1	639.6	3.340	99.8	559.5	25927.	768.3	842.6	0.50	1.205	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 ROOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	326.3			645.6										782.7
	COEFF.	-0.667			-0.168										0.046
290.0	ORIFICE	232	233					234							
	PRESSURE	384.9	480.1					710.0							
	COEFF.	-0.576	-0.427					-0.067							
288.0	ORIFICE	253	254					255							
	PRESSURE	477.8	522.1					694.9							
	COEFF.	-0.430	-0.361					-0.091							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						681.6	692.7	696.7						
	COEFF.						-0.112	-0.094	-0.088						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		558.7					688.3	702.5	706.9	711.9				
	COEFF.		-0.304					-0.101	-0.079	-0.072	-0.064				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							702.4		706.8	711.0	738.5	756.6	771.1	
	COEFF.							-0.079		-0.072	-0.066	-0.023	0.006	0.028	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			684.2	705.1	722.2						716.4	715.0	720.6	
	COEFF.			-0.108	-0.075	-0.048						-0.057	-0.060	-0.051	
268.0	ORIFICE	216	217					218							
	PRESSURE	442.2	608.5					665.4							
	COEFF.	-0.486	-0.226					-0.137							
260.0	ORIFICE	207			208										209
	PRESSURE	531.9			636.3										640.3
	COEFF.	-0.346			-0.183										-0.176

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
43	5	P436-03	TF-556	2/ 4/81	35: 2:51:47	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10-3
1.102	1610.9	753.1	639.6	3.340	99.8	559.5	25927.	768.3	842.6	0.50	1.205	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			410.4			421.6	467.8		606.8		
	COEFFICIENT			-0.536			-0.518	-0.446		-0.229		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				408.8		570.1	752.9		676.7		
	COEFFICIENT				-0.538		-0.286	-0.000		-0.119		
277.5	ORIFICE							276		277		
	PRESSURE							754.1		735.9		
	COEFFICIENT							0.002		-0.027		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		769.4		727.5
	COEFFICIENT						9.999	9.999		0.025		-0.040
260.0	ORIFICE	291B	292B									
	PRESSURE	890.5	884.4									
	COEFFICIENT	0.215	0.205									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	695.7	695.5
	COEFFICIENT	-0.090	-0.090

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.059	0.073	0.189	0.138		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.059	0.255	0.195	0.146	0.096	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.106	0.075	0.082	0.063		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	6	P436-03	TF-556	2/ 4/81	35: 2:52:17	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1605.2	753.1	636.3	3.327	99.8	559.5	25925.	768.3	836.9	0.50	1.192	0.484

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	932.6	568.3	570.8	681.7	758.9	711.1									
	COEFF.	0.282	-0.291	-0.286	-0.112	0.009	-0.066									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	1111.6	487.2	540.5	716.9	778.3	691.7									
	COEFF.	0.563	-0.418	-0.334	-0.057	0.040	-0.096									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							460.0	437.1	435.8	463.3	455.4	493.1			
	COEFF.							-0.461	-0.497	-0.499	-0.456	-0.468	-0.409			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												449.2	456.9	473.7	
	COEFF.												-0.478	-0.466	-0.439	
278.0	ORIFICE	220	221	222												
	PRESSURE	1131.2	435.2	602.8												
	COEFF.	0.594	-0.500	-0.236												
277.0	ORIFICE				223	224	225									
	PRESSURE				741.1	744.8	733.7									
	COEFF.				-0.019	-0.013	-0.031									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													501.9	512.1	528.2
	COEFF.													-0.395	-0.379	-0.353
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	1147.8	489.1	623.8	750.5	738.6	752.8									
	COEFF.	0.620	-0.415	-0.203	-0.004	-0.023	-0.001									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1162.7	497.3	695.7	758.1	749.9	751.8									
	COEFF.	0.644	-0.402	-0.090	0.008	-0.005	-0.002									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	6	P436-03	TF-556	2/ 4/81	35: 2:52:17	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1605.2	753.1	636.3	3.327	99.8	559.5	25925.	768.3	836.9	0.50	1.192	0.484

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	324.6			651.2										785.3
	COEFF.	-0.673			-0.160										0.051
290.0	ORIFICE	232	233					234							
	PRESSURE	384.9	483.9					714.7							
	COEFF.	-0.579	-0.423					-0.060							
288.0	ORIFICE	253	254					255							
	PRESSURE	475.8	524.1					703.0							
	COEFF.	-0.436	-0.360					-0.079							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						688.9	700.5	704.4						
	COEFF.						-0.101	-0.083	-0.077						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		560.0					697.3	709.5	713.4	717.9				
	COEFF.		-0.304					-0.088	-0.069	-0.062	-0.055				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							708.0		713.1	716.8	743.0	759.6	773.3	
	COEFF.							-0.071		-0.063	-0.057	-0.016	0.010	0.032	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			685.7	706.8	723.9						723.0	720.9	726.8	
	COEFF.			-0.106	-0.073	-0.046						-0.047	-0.051	-0.041	
268.0	ORIFICE	216	217					218							
	PRESSURE	446.4	607.0					665.9							
	COEFF.	-0.482	-0.230					-0.137							
260.0	ORIFICE	207			208										209
	PRESSURE	537.9			636.7										645.2
	COEFF.	-0.338			-0.183										-0.170

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
43	7	P436-03	TF-556	2/ 4/81	35: 2:52:47	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1609.9	754.4	638.5	3.337	99.9	559.6	25887.	769.6	840.3	0.50	1.194	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	937.4	572.1	574.9	670.0	761.0	711.7									
	COEFF.	0.287	-0.285	-0.281	-0.132	0.010	-0.067									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1117.7	485.0	543.5	725.5	774.9	696.1									
	COEFF.	0.569	-0.422	-0.330	-0.045	0.032	-0.091									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							459.6	436.5	435.6	463.7	455.2	491.3			
	COEFF.							-0.462	-0.498	-0.499	-0.455	-0.469	-0.412			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												449.0	456.7	473.2	
	COEFF.												-0.478	-0.466	-0.440	
	ORIFICE	220	221	222												
278.0	PRESSURE	1136.6	438.0	607.1												
	COEFF.	0.599	-0.496	-0.231												
	ORIFICE				223	224	225									
277.0	PRESSURE				743.5	742.0	737.1									
	COEFF.				-0.017	-0.019	-0.027									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													501.8	511.9	527.8
	COEFF.													-0.396	-0.380	-0.355
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1151.4	488.8	620.1	754.4	739.5	751.9									
	COEFF.	0.622	-0.416	-0.210	0.000	-0.023	-0.004									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1166.4	498.4	697.5	758.8	758.8	751.1									
	COEFF.	0.645	-0.401	-0.089	0.007	0.007	-0.005									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 167
43	7	P436-03	TF-556	2/ 4/81	35: 2:52:47	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10-3
1.100	1609.9	754.4	638.5	3.337	99.9	559.6	25887.	769.6	840.3	0.50	1.194	0.483

MODEL	TRAJECTOPY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	326.7			645.7										783.5
	COEFF.	-0.670			-0.170										0.046
290.0	ORIFICE	232	233					234							
	PRESSURE	385.8	480.7					711.3							
	COEFF.	-0.577	-0.429					-0.067							
288.0	ORIFICE	253	254					255							
	PRESSURE	476.8	522.9					696.4							
	COEFF.	-0.435	-0.363					-0.091							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						683.3	695.3	699.3						
	COEFF.						-0.111	-0.092	-0.086						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		559.3					689.7	704.9	708.9	713.6				
	COEFF.		-0.306					-0.101	-0.077	-0.071	-0.064				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							704.1		708.3	712.7	740.2	757.9	771.8	
	COEFF.							-0.079		-0.072	-0.065	-0.022	0.006	0.027	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			684.7	705.8	723.7						718.5	716.5	726.4	
	COEFF.			-0.109	-0.076	-0.048						-0.056	-0.059	-0.044	
268.0	ORIFICE	216	217					218							
	PRESSURE	442.1	609.0					666.5							
	COEFF.	-0.489	-0.228					-0.138							
260.0	ORIFICE	207			208										209
	PRESSURE	532.9			637.3										641.1
	COEFF.	-0.347			-0.183										-0.177

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
43	7	P43G-03	TF-556	2/ 4/81	35: 2:52:47	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1609.9	754.4	638.5	3.337	99.9	559.6	25887.	769.6	840.3	0.50	1.194	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			410.7			422.0	468.1		607.5		
	COEFFICIENT			-0.538			-0.520	-0.448		-0.230		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				409.0		570.8	753.7		677.5		
	COEFFICIENT				-0.541		-0.288	-0.001		-0.120		
277.5	ORIFICE							276		277		
	PRESSURE							755.5		727.7		
	COEFFICIENT							0.002		-0.042		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		770.1		728.6
	COEFFICIENT						9.999	9.999		0.025		-0.040
260.0	ORIFICE	291B	292B									
	PRESSURE	891.3	884.7									
	COEFFICIENT	0.214	0.204									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	696.5	696.1
	COEFFICIENT	-0.091	-0.091

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.057	0.075	0.190	0.137		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.059	0.255	0.197	0.147	0.095	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.107	0.075	0.082	0.064		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
43	8	P436-03	TF-556	2/ 4/81	35: 2:53:18	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1608.6	753.9	637.9	3.333	100.0	559.7	25902.	769.1	839.5	0.50	1.194	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	936.6	571.9	574.7	669.4	759.4	711.4									
	COEFF.	0.286	-0.285	-0.281	-0.132	0.009	-0.067									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1116.8	484.0	542.7	724.9	774.6	695.5									
	COEFF.	0.569	-0.423	-0.331	-0.045	0.032	-0.091									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							460.0	436.0	435.6	463.2	455.4	490.8			
	COEFF.							-0.461	-0.498	-0.499	-0.456	-0.468	-0.412			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												448.9	456.4	472.7	
	COEFF.												-0.478	-0.466	-0.441	
	ORIFICE	220	221	222												
278.0	PRESSURE	1135.7	437.8	607.6												
	COEFF.	0.599	-0.495	-0.229												
	ORIFICE				223	224	225									
277.0	PRESSURE				742.8	741.8	736.5									
	COEFF.				-0.017	-0.019	-0.027									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													501.4	511.6	527.7
	COEFF.													-0.396	-0.380	-0.355
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1150.7	468.7	620.1	753.7	738.6	751.7									
	COEFF.	0.622	-0.416	-0.210	-0.000	-0.024	-0.003									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1165.5	498.2	697.1	761.9	750.8	751.0									
	COEFF.	0.645	-0.401	-0.089	0.012	0.008	-0.005									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	8	P436-03	TF-556	2/ 4/81	35: 2:53:18	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1608.6	753.9	637.9	3.333	100.0	559.7	25902.	769.1	839.5	0.50	1.194	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	326.7			646.8										783.0
	COEFF.	-0.670			-0.168										0.046
290.0	ORIFICE	232	233					234							
	PRESSURE	385.2	480.8					711.8							
	COEFF.	-0.578	-0.428					-0.066							
288.0	ORIFICE	253	254					255							
	PRESSURE	476.2	522.7					696.8							
	COEFF.	-0.435	-0.362					-0.089							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						683.7	695.7	699.6						
	COEFF.						-0.110	-0.091	-0.085						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		559.2					689.7	705.5	709.3	714.2				
	COEFF.		-0.305					-0.101	-0.076	-0.070	-0.062				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							703.6		708.1	712.6	739.4	757.8	771.9	
	COEFF.							-0.079		-0.072	-0.065	-0.022	0.006	0.028	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			685.4	706.3	724.0						718.2	716.2	725.7	
	COEFF.			-0.107	-0.075	-0.047						-0.056	-0.059	-0.044	
268.0	ORIFICE	216	217					218							
	PRESSURE	442.7	609.0					666.2							
	COEFF.	-0.488	-0.227					-0.137							
260.0	ORIFICE	207			208										209
	PRESSURE	532.4			637.4										640.7
	COEFF.	-0.347			-0.183										-0.177

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
43	8	P43G-03	TF-556	2/ 4/81	35: 2:53:18	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1608.6	753.9	637.9	3.333	100.0	559.7	25902.	769.1	839.5	0.50	1.194	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			410.4			421.4	467.3		607.3		
	COEFFICIENT			-0.538			-0.521	-0.449		-0.230		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				409.1		572.0	753.5		676.8		
	COEFFICIENT				-0.541		-0.285	-0.001		-0.121		
277.5	ORIFICE							276		277		
	PRESSURE							754.8		723.6		
	COEFFICIENT							0.001		-0.047		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		769.7		729.8
	COEFFICIENT						9.999	9.999		0.025		-0.038
260.0	ORIFICE	291B	292B									
	PRESSURE	890.5	884.6									
	COEFFICIENT	0.214	0.205									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	696.1	695.6
	COEFFICIENT	-0.091	-0.091

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.058	0.072	0.189	0.136		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.059	0.258	0.198	0.147	0.096	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.107	0.075	0.083	0.063		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
43	9	P436-03	TF-556	2/ 4/81	35: 2:53:49	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1608.6	754.1	637.9	3.330	100.4	560.1	25896.	769.3	839.3	0.50	1.194	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	935.7	571.9	574.7	670.7	759.4	711.2									
	COEFF.	0.286	-0.286	-0.281	-0.131	0.008	-0.067									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1116.5	484.6	542.6	723.7	775.9	695.3									
	COEFF.	0.568	-0.423	-0.332	-0.048	0.034	-0.092									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							459.3	436.8	435.8	463.6	455.3	491.2			
	COEFF.							-0.462	-0.497	-0.499	-0.455	-0.468	-0.412			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												449.6	457.2	474.2	
	COEFF.												-0.477	-0.465	-0.439	
	ORIFICE	220	221	222												
278.0	PRESSURE	1135.6	437.7	606.7												
	COEFF.	0.598	-0.496	-0.231												
	ORIFICE				223	224	225									
277.0	PRESSURE				742.6	742.3	736.3									
	COEFF.				-0.018	-0.019	-0.028									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													502.0	511.8	527.9
	COEFF.													-0.395	-0.380	-0.355
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1150.9	489.2	621.1	753.5	738.4	752.1									
	COEFF.	0.622	-0.415	-0.209	-0.001	-0.025	-0.003									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1165.7	498.3	697.3	763.3	758.4	751.0									
	COEFF.	0.645	-0.401	-0.089	0.014	0.007	-0.005									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	9	P436-03	TF-556	2/ 4/81	35: 2:53:49	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1608.6	754.1	637.9	3.330	100.4	560.1	25896.	769.3	839.3	0.50	1.194	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	326.2			648.0										783.5
	COEFF.	-0.671			-0.166										0.046
290.0	ORIFICE	232	233					234							
	PRESSURE	385.0	481.3					712.9							
	COEFF.	-0.579	-0.428					-0.065							
288.0	ORIFICE	253	254					255							
	PRESSURE	476.1	523.0					697.8							
	COEFF.	-0.436	-0.362					-0.088							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						684.7	696.3	700.5						
	COEFF.						-0.109	-0.091	-0.084						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		559.4					690.9	706.1	710.1	715.3				
	COEFF.		-0.305					-0.099	-0.075	-0.069	-0.061				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							704.7		708.9	713.1	740.6	758.2	772.8	
	COEFF.							-0.077		-0.071	-0.064	-0.021	0.007	0.029	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			685.0	706.0	724.0						719.3	717.7	725.3	
	COEFF.			-0.108	-0.075	-0.047						-0.055	-0.057	-0.045	
268.0	ORIFICE	216	217					218							
	PRESSURE	444.1	609.2					666.7							
	COEFF.	-0.486	-0.227					-0.137							
260.0	ORIFICE	207			208										209
	PRESSURE	532.6			637.0										641.6
	COEFF.	-0.347			-0.184										-0.176

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
43	9	P436-03	TF-556	2/ 4/81	35: 2:53:49	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.099	1608.6	754.1	637.9	3.330	100.4	560.1	25896.	769.3	839.3	0.50	1.194	0.483

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			410.4			421.7	467.0		608.2		
	COEFFICIENT			-0.539			-0.521	-0.450		-0.229		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				409.0		572.0	753.6		677.3		
	COEFFICIENT				-0.541		-0.286	-0.001		-0.120		
277.5	ORIFICE							276		277		
	PRESSURE							755.1		720.9		
	COEFFICIENT							0.002		-0.056		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		769.7		729.3
	COEFFICIENT						9.999	9.999		0.024		-0.039
260.0	ORIFICE	291B	292B									
	PRESSURE	890.7	884.6									
	COEFFICIENT	0.214	0.205									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	696.3	696.1
	COEFFICIENT	-0.091	-0.091

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.057	0.074	0.190	0.136	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.059	0.256	0.197	0.145	0.096
273.0	ORIFICE	401	402	403	404	
	VALUE	0.107	0.075	0.080	0.063	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE 2-2/-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	10	P436-03	TF-556	2/ 4/81	35: 2:54:16	0.	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.101	1610.5	753.0	639.4	3.336	100.3	560.0	25930.	768.2	842.3	0.50	1.194	0.511

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	936.1	571.2	574.1	668.0	759.5	710.2									
	COEFF.	0.286	-0.284	-0.280	-0.133	0.010	-0.067									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1116.4	483.4	541.8	724.6	773.0	695.4									
	COEFF.	0.568	-0.422	-0.330	-0.044	0.031	-0.090									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							458.4	435.3	434.7	462.1	453.8	489.5			
	COEFF.							-0.461	-0.497	-0.498	-0.455	-0.468	-0.412			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												448.0	455.3	472.1	
	COEFF.												-0.477	-0.466	-0.439	
	ORIFICE	220	221	222												
278.0	PRESSURE	1135.0	436.7	605.7												
	COEFF.	0.598	-0.495	-0.230												
	ORIFICE				223	224	225									
277.0	PRESSURE				741.9	740.6	735.6									
	COEFF.				-0.017	-0.019	-0.027									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													500.3	510.5	526.4
	COEFF.													-0.395	-0.379	-0.354
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1149.9	488.0	618.9	753.0	738.1	750.7									
	COEFF.	0.621	-0.414	-0.210	0.000	-0.023	-0.003									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1164.8	497.3	696.6	761.1	758-2	749.9									
	COEFF.	0.644	-0.400	-0.088	0.013	0.008	-0.005									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	10	P436-03	TF-556	2/ 4/81	35: 2:54:16	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.101	1610.5	753.0	639.4	3.336	100.3	560.0	25930.	168.2	842.3	0.50	1.194	0.511

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	325.5			645.4										782.2
	COEFF.	-0.669			-0.168										0.046
290.0	ORIFICE	232	233					234							
	PRESSURE	384.1	479.3					710.6							
	COEFF.	-0.577	-0.428					-0.066							
288.0	ORIFICE	253	254					255							
	PRESSURE	474.6	521.4					695.5							
	COEFF.	-0.435	-0.362					-0.090							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						682.1	694.4	698.5						
	COEFF.						-0.111	-0.092	-0.085						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		558.1					688.3	703.5	707.9	712.7				
	COEFF.		-0.305					-0.101	-0.077	-0.070	-0.063				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							702.7		707.6	711.7	739.5	756.9	771.2	
	COEFF.							-0.079		-0.071	-0.064	-0.021	0.006	0.029	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			683.7	704.6	722.5						717.1	715.8	722.6	
	COEFF.			-0.108	-0.076	-0.048						-0.056	-0.058	-0.047	
268.0	ORIFICE	216	217					218							
	PRESSURE	441.3	607.6					665.2							
	COEFF.	-0.487	-0.227					-0.137							
260.0	ORIFICE	207			208										209
	PRESSURE	531.5			635.9										640.0
	COEFF.	-0.346			-0.183										-0.177

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
43	10	P436-03	TF-556	2/ 4/81	35: 2:54:16	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.101	1610.5	753.0	639.4	3.336	100.3	560.0	25930.	768.2	842.3	0.50	1.194	0.511

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
	ORIFICE			282			283	284		285		
282.0	PRESSURE			409.3			420.9	466.2		606.3		
	COEFFICIENT			-0.537			-0.519	-0.448		-0.229		
	ORIFICE				278		279	280		281		
280.0	PRESSURE				407.7		569.8	751.6		675.9		
	COEFFICIENT				-0.540		-0.286	-0.002		-0.121		
	ORIFICE							276		277		
277.5	PRESSURE							754.2		717.2		
	COEFFICIENT							0.002		-0.056		
	ORIFICE						271	272		273		274
276.0	PRESSURE						0.0	0.0		768.5		727.6
	COEFFICIENT						9.999	9.999		0.024		-0.040
	ORIFICE	291B	292B									
260.0	PRESSURE	889.8	883.5									
	COEFFICIENT	0.214	0.204									

INSIDE PRESSURE ORIFICES

	ORIFICE	261	262
276.0	PRESSURE	695.0	694.8
	COEFFICIENT	-0.091	-0.091

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.057	0.072	0.186	0.137		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.059	0.257	0.195	0.147	0.096	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.107	0.074	0.082	0.063		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	11	P436-03	TF-556	2/ 4/81	35: 2:54:47	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1610.7	754.7	638.8	3.332	100.7	560.4	25879.	769.9	840.8	0.50	1.194	0.511

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	937.1	572.0	575.0	670.5	761.1	711.6									
	COEFF.	0.286	-0.286	-0.281	-0.132	0.010	-0.067									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1117.6	484.2	542.2	724.6	775.9	695.6									
	COEFF.	0.568	-0.423	-0.332	-0.047	0.033	-0.092									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							460.1	437.0	436.6	463.8	455.3	491.4			
	COEFF.							-0.461	-0.497	-0.498	-0.455	-0.469	-0.412			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												448.9	456.3	472.9	
	COEFF.												-0.479	-0.467	-0.441	
	ORIFICE	220	221	222												
278.0	PRESSURE	1136.5	437.8	606.9												
	COEFF.	0.598	-0.496	-0.231												
	ORIFICE				223	224	225									
277.0	PRESSURE				743.2	742.4	736.7									
	COEFF.				-0.018	-0.019	-0.028									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													501.6	511.7	527.8
	COEFF.													-0.396	-0.380	-0.355
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1152.2	488.7	620.5	754.0	738.8	752.5									
	COEFF.	0.622	-0.416	-0.210	-0.001	-0.025	-0.003									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1166.6	498.2	697.2	762.2	758.8	751.7									
	COEFF.	0.645	-0.401	-0.090	0.012	0.007	-0.005									

DATE. 2-27-81 PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
43	11	P430-03	TF-556	2/ 4/81	35: 2:54:47	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1610.7	754.7	638.8	3.332	100.7	560.4	25879.	769.9	840.8	0.50	1.194	0.511

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	326.5			648.2										783.8
	COEFF.	-0.670			-0.167										0.046
290.0	ORIFICE	232	233					234							
	PRESSURE	384.7	481.1					712.9							
	COEFF.	-0.579	-0.428					-0.065							
288.0	ORIFICE	253	254					255							
	PRESSURE	475.5	523.2					698.2							
	COEFF.	-0.437	-0.362					-0.088							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						684.7	696.7	701.1						
	COEFF.						-0.110	-0.091	-0.084						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		560.3					691.2	706.7	710.5	714.8				
	COEFF.		-0.304					-0.099	-0.075	-0.069	-0.062				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							704.6		709.9	714.3	741.6	759.3	773.4	
	COEFF.							-0.078		-0.070	-0.063	-0.020	0.007	0.029	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			685.3	706.5	724.0						718.8	717.5	723.9	
	COEFF.			-0.109	-0.075	-0.048						-0.056	-0.058	-0.048	
268.0	ORIFICE	216	217					218							
	PRESSURE	443.8	609.3					666.9							
	COEFF.	-0.487	-0.227					-0.137							
260.0	ORIFICE	207			208										209
	PRESSURE	532.7			637.6										641.5
	COEFF.	-0.347			-0.183										-0.177

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	11	P436-03	TF-556	2/ 4/81	35: 2:54:47	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1610.7	754.7	638.8	3.332	100.7	560.4	25879.	769.9	840.8	0.50	1.194	0.511

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
	ORIFICE			282			283	284		285		
282.0	PRESSURE			410.8			421.6	467.1		608.3		
	COEFFICIENT			-0.538			-0.521	-0.450		-0.229		
	ORIFICE				278		279	280		281		
280.0	PRESSURE				409.3		572.4	754.1		677.5		
	COEFFICIENT				-0.541		-0.285	-0.001		-0.121		
	ORIFICE							276		277		
277.5	PRESSURE							755.5		716.0		
	COEFFICIENT							0.001		-0.061		
	ORIFICE						271	272		273		274
276.0	PRESSURE						0.0	0.0		769.8		729.0
	COEFFICIENT						9.999	9.999		0.024		-0.040
	ORIFICE	291B	292B									
260.0	PRESSURE	891.3	884.4									
	COEFFICIENT	0.214	0.203									

INSIDE PRESSURE ORIFICES

	ORIFICE	261	262
276.0	PRESSURE	696.7	696.2
	COEFFICIENT	-0.091	-0.091

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.057	0.074	0.190	0.136	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.059	0.259	0.196	0.147	0.095
273.0	ORIFICE	401	402	403	404	
	VALUE	0.107	0.075	0.082	0.063	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	12	P436-03	TF-556	2/ 4/81	35: 2:55:18	0-	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10-3
1.101	1611.2	753.3	639.7	3.337	100.3	560.0	25921.	768.5	842.7	0.50	1.194	0.510

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77

ZV

ORIFICE	236	237	238	239	240	241
300.0 PRESSURE	936.5	572.0	574.8	667.8	759.4	710.8
COEFF.	0.286	-0.283	-0.279	-0.134	0.010	-0.066

ORIFICE	226	227	228	229	230	231
290.0 PRESSURE	1116.7	483.3	541.8	725.2	773.5	695.1
COEFF.	0.568	-0.422	-0.331	-0.044	0.032	-0.091

ORIFICE	*310*	*311*	*312*	*313*	*314*	*315*
287.0 PRESSURE	459.2	435.6	435.0	462.8	454.5	489.8
COEFF.	-0.460	-0.497	-0.498	-0.454	-0.467	-0.412

ORIFICE	*301*	*302*	*303*
282.0 PRESSURE	448.1	455.6	472.6
COEFF.	-0.477	-0.465	-0.439

ORIFICE	220	221	222
278.0 PRESSURE	1135.6	437.1	606.3
COEFF.	0.598	-0.494	-0.230

ORIFICE	223	224	225
277.0 PRESSURE	742.4	741.0	736.4
COEFF.	-0.017	-0.019	-0.026

ORIFICE	*291*	*292*	*293*
275.0 PRESSURE	500.7	510.9	526.9
COEFF.	-0.395	-0.379	-0.354

ORIFICE	210	211	212	213	214	215
268.0 PRESSURE	1151.1	488.3	619.4	754.1	738.7	751.6
COEFF.	0.622	-0.414	-0.209	0.001	-0.023	-0.003

ORIFICE	201	202	203	204	205	206
260.0 PRESSURE	1165.7	497.7	696.6	760.7	758.8	750.3
COEFF.	0.645	-0.400	-0.089	0.012	0.009	-0.005

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
43	12	P436-03	TF-556	2/ 4/81	35: 2:55:18	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	-C	DP	WA	TPR	SHX10+3
1.101	1611.2	753.3	639.7	3.337	100.3	560.0	25921.	768.5	842.7	0.50	1.194	0.510

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	326.1			645.7										782.7
	COEFF.	-0.668			-0.168										0.046
290.0	ORIFICE	232	233					234							
	PRESSURE	384.6	479.9					710.1							
	COEFF.	-0.576	-0.427					-0.067							
288.0	ORIFICE	253	254					255							
	PRESSURE	474.9	522.0					695.3							
	COEFF.	-0.435	-0.362					-0.091							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						682.2	693.6	697.7						
	COEFF.						-0.111	-0.093	-0.087						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		558.5					688.2	703.8	707.6	713.2				
	COEFF.		-0.304					-0.102	-0.077	-0.071	-0.063				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							702.4		707.0	711.6	738.9	757.0	771.3	
	COEFF.							-0.080		-0.072	-0.065	-0.022	0.006	0.028	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			683.9	704.9	723.0						716.8	715.2	718.8	
	COEFF.			-0.108	-0.076	-0.047						-0.057	-0.059	-0.054	
268.0	ORIFICE	216	217					218							
	PRESSURE	442.1	608.2					665.5							
	COEFF.	-0.486	-0.227					-0.137							
260.0	ORIFICE	207			208										209
	PRESSURE	532.4			636.4										639.9
	COEFF.	-0.345			-0.183										-0.177

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	12	P436-03	TF-556	2/ 4/81	35: 2:55:18	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.101	1611.2	753.3	639.7	3.337	100.3	560.0	25921.	768.5	842.7	0.50	1.194	0.510

MODEL	TRAJECTORY	ALPHA	BETA	SPEED	BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0	

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
	ORIFICE			282			283	284		285		
282.0	PRESSURE			409.8			420.9	466.7		606.7		
	COEFFICIENT			-0.537			-0.519	-0.448		-0.229		
	ORIFICE				278		279	280		281		
280.0	PRESSURE				408.2		571.2	752.9		676.3		
	COEFFICIENT				-0.539		-0.285	-0.001		-0.124		
	ORIFICE							276		277		
277.5	PRESSURE							754.3		713.0		
	COEFFICIENT							0.002		-0.062		
	ORIFICE						271	272		273		274
276.0	PRESSURE						0.0	0.0		769.1		727.7
	COEFFICIENT						9.999	9.999		0.025		-0.040
	ORIFICE	291B	292B									
260.0	PRESSURE	890.5	884.2									
	COEFFICIENT	0.215	0.205									

INSIDE PRESSURE ORIFICES

	ORIFICE	261	262
276.0	PRESSURE	695.5	695.1
	COEFFICIENT	-0.090	-0.091

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.058	0.074	0.188	0.137	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.059	0.253	0.198	0.146	0.096
273.0	ORIFICE	401	402	403	404	
	VALUE	0.106	0.076	0.082	0.064	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	13	P43G-03	TF-556	2/ 4/81	35: 2:55:47	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1610.5	754.5	638.8	3.332	100.7	560.4	25885.	769.7	840.8	0.50	1.194	0.511

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	937.7	572.9	576.0	669.5	761.6	711.4									
	COEFF.	0.287	-0.284	-0.279	-0.133	0.011	-0.067									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	1117.3	483.5	542.0	724.8	775.8	695.9									
	COEFF.	0.568	-0.424	-0.333	-0.046	0.033	-0.092									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							459.1	435.9	435.5	463.8	454.7	491.0			
	COEFF.							-0.462	-0.499	-0.499	-0.455	-0.469	-0.412			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												448.9	456.3	473.3	
	COEFF.												-0.478	-0.467	-0.440	
	ORIFICE	220	221	222												
278.0	PRESSURE	1136.3	437.8	606.9												
	COEFF.	0.598	-0.496	-0.231												
	ORIFICE				223	224	225									
277.0	PRESSURE				743.1	742.3	737.0									
	COEFF.				-0.018	-0.019	-0.027									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													501.6	511.8	528.0
	COEFF.													-0.396	-0.380	-0.354
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	1151.8	488.9	620.5	753.9	739.0	752.2									
	COEFF.	0.622	-0.416	-0.210	-0.001	-0.024	-0.004									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1166.5	498.3	697.2	762.4	759.0	752.2									
	COEFF.	0.645	-0.401	-0.090	0.012	0.007	-0.004									

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	13	P43G-03	TF-556	2/ 4/81	35: 2:55:47	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SRX10*3
1.100	1610.5	754.5	638.8	3.332	100.7	560.4	25885.	769.7	840.8	0.50	1.194	0.511

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	326.6			647.5										783.6
	COEFF.	-0.670			-0.167										0.046
290.0	ORIFICE	232	233					234							
	PRESSURE	385.3	481.2					712.4							
	COEFF.	-0.578	-0.428					-0.066							
288.0	ORIFICE	253	254					255							
	PRESSURE	475.5	523.0					697.4							
	COEFF.	-0.437	-0.362					-0.089							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						684.0	695.9	700.2						
	COEFF.						-0.110	-0.092	-0.085						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		559.5					690.3	705.7	709.6	714.8				
	COEFF.		-0.305					-0.101	-0.076	-0.070	-0.062				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							704.0		708.9	713.2	740.5	758.4	772.3	
	COEFF.							-0.079		-0.071	-0.065	-0.022	0.006	0.028	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			685.7	706.6	723.8						718.0	716.6	726.1	
	COEFF.			-0.108	-0.075	-0.048						-0.057	-0.059	-0.044	
268.0	ORIFICE	216	217					218							
	PRESSURE	443.4	609.5					666.7							
	COEFF.	-0.487	-0.227					-0.137							
260.0	ORIFICE	207			208										209
	PRESSURE	533.1			637.6										641.5
	COEFF.	-0.346			-0.183										-0.177

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
43	13	P43G-03	TF-556	2/ 4/81	35: 2:55:47	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.100	1610.5	754.5	638.8	3.332	100.7	560.4	25885.	769.7	840.8	0.50	1.194	0.511

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			410.5			421.6	467.6		608.0		
	COEFFICIENT			-0.538			-0.521	-0.449		-0.229		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				409.1		572.0	753.5		677.2		
	COEFFICIENT				-0.541		-0.286	-0.001		-0.121		
277.5	ORIFICE							276		277		
	PRESSURE							755.5		713.0		
	COEFFICIENT							0.002		-0.065		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		769.8		729.1
	COEFFICIENT						9.999	9.999		0.024		-0.040
260.0	ORIFICE	291B	292B									
	PRESSURE	891.2	884.9									
	COEFFICIENT	0.214	0.204									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	696.4	696.0
	COEFFICIENT	-0.091	-0.091

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.057	0.074	0.191	0.136	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.059	0.257	0.196	0.145	0.096
273.0	ORIFICE	401	402	403	404	
	VALUE	0.107	0.075	0.082	0.063	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
44	1	P436-03	TF-556	2/ 4/81	35: 3: 2: 4	0.	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.257	1519.4	580.9	642.8	3.169	100.3	560.0	31677.	594.7	924.7	0.50	1.255	0.572

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	821.5	197.1	274.9	607.4	605.3	603.6									
	COEFF.	0.374	-0.597	-0.476	0.041	0.038	0.035									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	969.4	229.7	308.8	604.6	603.1	584.3									
	COEFF.	0.604	-0.546	-0.423	0.037	0.035	0.005									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							374.8	359.4	352.1	335.4	322.7	334.6			
	COEFF.							-0.321	-0.345	-0.356	-0.382	-0.402	-0.383			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												315.5	319.0	331.4	
	COEFF.												-0.413	-0.408	-0.388	
	ORIFICE	220	221	222												
278.0	PRESSURE	986.7	238.3	327.8												
	COEFF.	0.631	-0.533	-0.394												
	ORIFICE				223	224	225									
277.0	PRESSURE				598.1	596.0	599.1									
	COEFF.				0.027	0.023	0.028									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													344.0	348.2	356.2
	COEFF.													-0.369	-0.362	-0.350
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	994.4	256.3	475.6	582.7	592.9	592.3									
	COEFF.	0.643	-0.505	-0.164	0.003	0.019	0.018									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1009.7	272.7	499.3	575.9	586.6	580.8									
	COEFF.	0.667	-0.479	-0.127	-0.008	0.009	-0.000									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
44	1	P436-03	TF-556	2/ 4/81	35: 3: 2: 4	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.257	1519.4	580.9	642.8	3.168	100.3	560.0	31677.	594.7	924.7	0.50	1.255	0.572

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	263.2			339.5										556.5
	COEFF.	-0.494			-0.376										-0.038
290.0	ORIFICE	232	233					234							
	PRESSURE	266.1	295.4					451.2							
	COEFF.	-0.490	-0.444					-0.202							
288.0	ORIFICE	253	254					255							
	PRESSURE	369.9	368.6					468.6							
	COEFF.	-0.328	-0.330					-0.175							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						472.2	475.0	482.0						
	COEFF.						-0.169	-0.165	-0.154						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		342.8					504.3	489.8	491.5	493.8				
	COEFF.		-0.370					-0.119	-0.142	-0.139	-0.136				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							526.2		531.1	530.2	522.0	536.4	549.7	
	COEFF.							-0.085		-0.078	-0.079	-0.091	-0.069	-0.049	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			447.9	462.7	498.1						516.7	511.9	512.4	
	COEFF.			-0.207	-0.184	-0.129						-0.100	-0.107	-0.107	
268.0	ORIFICE	216	217					218							
	PRESSURE	297.4	418.5					480.7							
	COEFF.	-0.441	-0.253					-0.156							
260.0	ORIFICE	207			208										209
	PRESSURE	370.5			449.0										470.3
	COEFF.	-0.327			-0.205										-0.172

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	1	P436-03	TF-556	2/ 4/81	35: 3: 2: 4	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	OP	WA	TPR	SHX10+3
1.257	1519.4	580.9	642.8	3.168	100.3	560.0	31677.	594.7	924.7	0.50	1.255	0.572

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			290.6			330.7	383.5		438.9		
	COEFFICIENT			-0.452			-0.389	-0.307		-0.221		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				286.9		335.6	481.3		520.0		
	COEFFICIENT				-0.457		-0.382	-0.155		-0.095		
277.5	ORIFICE							276		277		
	PRESSURE							572.8		584.5		
	COEFFICIENT							-0.013		0.006		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		596.5		514.6
	COEFFICIENT						9.999	9.999		0.024		-0.103
260.0	ORIFICE	291B	292B									
	PRESSURE	696.6	714.2									
	COEFFICIENT	0.180	0.207									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	550.9	550.6
	COEFFICIENT	-0.047	-0.047

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.024	0.030	0.052	0.125	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.026	0.102	0.156	0.116	0.100
273.0	ORIFICE	401	402	403	404	
	VALUE	0.063	0.037	0.047	0.051	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
44	2	P436-03	TF-556	2/ 4/81	35: 3: 2:23	0-	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.253	1519.4	583.9	642.1	3.164	100.8	560.5	31566.	597.7	921.7	0.50	1.265	0.572

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	826.2	197.4	277.9	611.8	605.5	605.0									
	COEFF.	0.377	-0.602	-0.477	0.043	0.034	0.033									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	974.5	230.8	310.7	607.5	607.2	589.1									
	COEFF.	0.608	-0.550	-0.426	0.037	0.036	0.008									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							377.1	361.5	354.0	335.5	323.6	335.9			
	COEFF.							-0.322	-0.346	-0.358	-0.387	-0.405	-0.386			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												317.2	321.1	333.3	
	COEFF.												-0.415	-0.409	-0.390	
	ORIFICE	220	221	222												
278.0	PRESSURE	989.4	239.0	330.1												
	COEFF.	0.631	-0.537	-0.395												
	ORIFICE				223	224	225									
277.0	PRESSURE				602.1	598.9	602.2									
	COEFF.				0.028	0.023	0.029									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													346.1	350.3	358.5
	COEFF.													-0.370	-0.364	-0.351
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	996.9	257.4	479.7	586.4	599.4	596.0									
	COEFF.	0.643	-0.509	-0.162	0.004	0.024	0.019									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1012.2	273.6	501.1	572.8	591.2	584.7									
	COEFF.	0.667	-0.483	-0.129	-0.017	0.011	0.001									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
44	2	P436-03	TF-556	2/ 4/81	35: 3: 2:23	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+J
1.253	1519.4	583.9	642.1	3.164	100.8	560.5	31566.	597.7	921.7	0.50	1.265	0.572

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	263.6			341.5										558.2
	COEFF.	-0.499			-0.377										-0.040
290.0	ORIFICE	232	233					234							
	PRESSURE	266.1	297.1					453.1							
	COEFF.	-0.495	-0.447					-0.204							
288.0	ORIFICE	253	254					255							
	PRESSURE	367.8	370.8					471.3							
	COEFF.	-0.337	-0.332					-0.175							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						475.4	478.2	485.4						
	COEFF.						-0.169	-0.165	-0.153						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		344.9					507.2	493.9	495.1	496.3				
	COEFF.		-0.372					-0.119	-0.140	-0.138	-0.136				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							528.3		534.1	534.1	526.4	539.6	552.7	
	COEFF.							-0.087		-0.078	-0.078	-0.090	-0.069	-0.049	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			450.5	465.2	500.9						519.5	514.5	515.4	
	COEFF.			-0.208	-0.185	-0.129						-0.100	-0.108	-0.107	
268.0	ORIFICE	216	217					218							
	PRESSURE	296.9	420.7					482.3							
	COEFF.	-0.447	-0.254					-0.158							
260.0	ORIFICE	207			208										209
	PRESSURE	373.0			451.2										470.0
	COEFF.	-0.329			-0.207										-0.177

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	2	P43G-03	TF-556	2/ 4/81	35: 3: 2:23	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.253	1519.4	583.9	642.1	3.164	100.8	560.5	31566.	597.7	921.7	0.50	1.265	0.572

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 POOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
	ORIFICE			282			283	284		285		
282.0	PRESSURE			292.0			332.7	386.2		441.1		
	COEFFICIENT			-0.455			-0.391	-0.308		-0.222		
	ORIFICE				278		279	280		281		
280.0	PRESSURE				288.5		337.0	485.8		524.2		
	COEFFICIENT				-0.460		-0.385	-0.153		-0.093		
	ORIFICE							276		277		
277.5	PRESSURE							576.0		581.1		
	COEFFICIENT							-0.012		-0.004		
	ORIFICE						271	272		273		274
276.0	PRESSURE						0.0	0.0		597.6		516.5
	COEFFICIENT						9.999	9.999		0.021		-0.105
	ORIFICE	291B	292B									
260.0	PRESSURE	703.7	716.1									
	COEFFICIENT	0.186	0.206									

INSIDE PRESSURE ORIFICES

	ORIFICE	261	262
276.0	PRESSURE	553.7	553.5
	COEFFICIENT	-0.047	-0.047

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.023	0.036	0.052	0.124	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.026	0.104	0.151	0.114	0.100
273.0	ORIFICE	401	402	403	404	
	VALUE	0.063	0.038	0.048	0.051	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
44	3	P436-03	TF-556	2/ 4/81	35: 3: 2:54	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TRR	SHX10*3
1.251	1511.8	582.6	638.6	3.145	101.3	561.0	31616.	596.3	915.5	0.50	1.270	0.575

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	824.9	198.0	277.1	611.8	602.7	602.9									
	COEFF.	0.379	-0.602	-0.478	0.046	0.032	0.032									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	972.2	231.1	310.8	606.6	605.8	589.8									
	COEFF.	0.610	-0.550	-0.426	0.038	0.036	0.011									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							375.9	360.3	352.8	334.4	322.2	334.5			
	COEFF.							-0.324	-0.348	-0.360	-0.389	-0.408	-0.389			
	ORIFICE											*301*	*302*	*303*		
282.0	PRESSURE											316.5	320.1	332.4		
	COEFF.											-0.417	-0.411	-0.392		
	ORIFICE	220	221	222												
278.0	PRESSURE	985.8	239.0	330.2												
	COEFF.	0.631	-0.538	-0.395												
	ORIFICE				223	224	225									
277.0	PRESSURE				599.8	596.5	601.3									
	COEFF.				0.027	0.022	0.029									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													345.6	349.7	358.0
	COEFF.													-0.371	-0.365	-0.352
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	993.0	256.8	479.7	585.0	600.2	594.7									
	COEFF.	0.643	-0.510	-0.161	0.004	0.028	0.019									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1008.3	273.5	500.6	574.8	590.0	583.8									
	COEFF.	0.667	-0.484	-0.128	-0.012	0.012	0.002									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	3	P436-03	TF-556	2/ 4/81	35: 3: 2:54	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.251	1511.8	582.6	638.6	3.145	101.3	561.0	31616.	596.3	915.5	0.50	1.270	0.575

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	264.0			342.7										557.8
	COEFF.	-0.499			-0.376										-0.039
290.0	ORIFICE	232	233					234							
	PRESSURE	265.2	296.7					452.7							
	COEFF.	-0.497	-0.448					-0.203							
288.0	ORIFICE	253	254					255							
	PRESSURE	364.5	370.3					470.7							
	COEFF.	-0.342	-0.332					-0.175							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						474.0	477.0	484.3						
	COEFF.						-0.170	-0.165	-0.154						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		345.2					506.5	492.9	494.0	496.9				
	COEFF.		-0.372					-0.119	-0.140	-0.139	-0.134				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							527.6		533.1	532.9	525.0	538.4	551.0	
	COEFF.							-0.086		-0.077	-0.078	-0.090	-0.069	-0.049	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			449.3	464.0	499.3						518.1	513.1	514.9	
	COEFF.			-0.209	-0.186	-0.130						-0.101	-0.109	-0.106	
268.0	ORIFICE	216	217					218							
	PRESSURE	295.0	419.8					480.8							
	COEFF.	-0.450	-0.255					-0.159							
260.0	ORIFICE	207			208										209
	PRESSURE	372.8			450.6										468.3
	COEFF.	-0.329			-0.207										-0.179

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	3	P436-03	TF-556	2/ 4/81	35: 3: 2:54	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+2
1.251	1511.8	582.6	638.6	3.145	101.3	561.0	31416.	596.3	915.5	0.50	1.270	0.575

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			291.6			332.9	386.1		440.2		
	COEFFICIENT			-0.456			-0.391	-0.308		-0.223		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				288.0		336.3	486.2		524.2		
	COEFFICIENT				-0.461		-0.386	-0.151		-0.091		
277.5	ORIFICE							276		277		
	PRESSURE							574.8		575.4		
	COEFFICIENT							-0.012		-0.011		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		597.4		515.7
	COEFFICIENT						9.999	9.999		0.023		-0.105
260.0	ORIFICE	291B	292B									
	PRESSURE	704.6	717.4									
	COEFFICIENT	0.191	0.211									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	552.7	552.4
	COEFFICIENT	-0.047	-0.047

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.043	0.036	0.051	0.122	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.026	0.105	0.148	0.113	0.100
273.0	ORIFICE	401	402	403	404	
	VALUE	0.062	0.038	0.048	0.051	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	4	P436-03	TF-556	2/ 4/81	35: 3: 3:40	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	TC	DP	WA	TPR	SHX10+3
1.252	1510.4	581.9	638.0	3.144	101.0	560.7	31641.	575.6	914.8	0.50	1.269	0.544

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	823.5	196.2	280.0	611.9	603.2	604.0									
	COEFF.	0.379	-0.605	-0.473	0.047	0.033	0.035									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	972.3	230.1	309.4	606.0	604.6	587.9									
	COEFF.	0.612	-0.551	-0.427	0.038	0.036	0.009									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							375.2	359.4	351.5	332.8	320.8	333.6			
	COEFF.							-0.324	-0.349	-0.361	-0.390	-0.409	-0.389			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												316.2	319.9	332.1	
	COEFF.												-0.416	-0.411	-0.392	
	ORIFICE	220	221	222												
278.0	PRESSURE	984.5	237.9	330.5												
	COEFF.	0.631	-0.539	-0.394												
	ORIFICE				223	224	225									
277.0	PRESSURE				599.3	595.6	600.0									
	COEFF.				0.027	0.021	0.028									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													345.1	349.3	357.4
	COEFF.													-0.371	-0.365	-0.352
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	991.8	256.4	480.1	584.3	599.5	594.4									
	COEFF.	0.642	-0.510	-0.159	0.004	0.028	0.020									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1006.3	272.0	499.0	574.1	591.1	584.0									
	COEFF.	0.665	-0.486	-0.130	-0.012	0.014	0.003									

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	4	P43G-03	TF-556	2/ 4/81	35: 3: 3:40	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.252	1510.4	581.9	638.0	3.144	101.0	560.7	31641.	595.6	914.8	0.50	1.269	0.544

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	263.0			342.3										556.1
	COEFF.	-0.500			-0.376										-0.040
290.0	ORIFICE	232	233					234							
	PRESSURE	262.8	296.6					450.7							
	COEFF.	-0.500	-0.447					-0.206							
288.0	ORIFICE	253	254					255							
	PRESSURE	359.6	369.8					470.0							
	COEFF.	-0.348	-0.332					-0.175							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						473.7	477.0	484.0						
	COEFF.						-0.170	-0.164	-0.153						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		344.6					505.5	492.0	493.3	494.9				
	COEFF.		-0.372					-0.120	-0.141	-0.139	-0.136				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							526.5		533.0	532.2	524.5	537.5	551.0	
	COEFF.							-0.087		-0.077	-0.078	-0.090	-0.070	-0.048	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			447.9	462.6	498.8						517.6	512.4	513.6	
	COEFF.			-0.210	-0.187	-0.130						-0.101	-0.109	-0.107	
268.0	ORIFICE	216	217					218							
	PRESSURE	292.5	418.8					480.4							
	COEFF.	-0.454	-0.256					-0.159							
260.0	ORIFICE	207			208										209
	PRESSURE	372.2			449.6										465.6
	COEFF.	-0.329			-0.207										-0.182

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	4	P43G-03	TF-556	2/ 4/81	35: 3: 3:40	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.252	1510.4	581.9	638.0	3.144	101.0	560.7	31641.	595.6	914.8	0.50	1.269	0.544

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			290.9			332.3	385.1		439.3		
	COEFFICIENT			-0.456			-0.391	-0.308		-0.223		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				287.5		334.9	485.8		524.2		
	COEFFICIENT				-0.461		-0.387	-0.151		-0.091		
277.5	ORIFICE							276		277		
	PRESSURE							574.1		567.7		
	COEFFICIENT							-0.012		-0.022		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		596.2		514.8
	COEFFICIENT						9.999	9.999		0.022		-0.105
260.0	ORIFICE	291B	292B									
	PRESSURE	704.7	716.3									
	COEFFICIENT	0.192	0.211									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	552.0	551.7
	COEFFICIENT	-0.047	-0.047

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.0	0.037	0.050	0.124	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.027	0.105	0.151	0.114	0.100
273.0	ORIFICE	401	402	403	404	
	VALUE	0.062	0.038	0.049	0.051	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	5	P436-03	TF-556	2/ 4/81	35: 3: 4: 9	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.251	1516.1	584.7	640.3	3.156	101.0	560.7	31536.	598.5	917.6	0.50	1.269	0.542

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	827.4	197.6	278.6	614.5	604.6	605.1									
	COEFF.	0.379	-0.605	-0.478	0.046	0.031	0.032									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	976.1	231.5	311.2	609.0	607.6	591.2									
	COEFF.	0.611	-0.552	-0.427	0.038	0.036	0.010									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							377.3	361.4	353.7	335.3	322.9	335.6			
	COEFF.							-0.324	-0.349	-0.361	-0.390	-0.409	-0.389			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												317.1	320.8	333.3	
	COEFF.												-0.418	-0.412	-0.393	
	ORIFICE	220	221	222												
278.0	PRESSURE	988.8	239.1	331.4												
	COEFF.	0.631	-0.540	-0.396												
	ORIFICE				223	224	225									
277.0	PRESSURE				601.6	598.1	602.7									
	COEFF.				0.026	0.021	0.028									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													346.7	350.7	359.1
	COEFF.													-0.372	-0.365	-0.352
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	996.7	257.9	481.8	587.5	602.9	597.1									
	COEFF.	0.643	-0.510	-0.161	0.004	0.028	0.019									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1011.3	273.7	501.7	577.0	593.0	586.1									
	COEFF.	0.666	-0.486	-0.130	-0.012	0.013	0.002									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	5	P436-03	TF-556	2/ 4/81	35: 3: 4: 9	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	TC	DP	WA	TPR	SHX10+3
1.251	1516.1	584.7	640.3	3.156	101.0	560.7	31536.	598.5	917.6	0.50	1.269	0.542

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	264.2			343.7										558.3
	COEFF.	-0.501			-0.376										-0.041
290.0	ORIFICE	232	233					234							
	PRESSURE	264.8	296.9					452.9							
	COEFF.	-0.500	-0.449					-0.206							
288.0	ORIFICE	253	254					255							
	PRESSURE	358.8	371.1					471.7							
	COEFF.	-0.353	-0.334					-0.177							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						475.5	478.8	486.2						
	COEFF.						-0.171	-0.165	-0.154						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		346.0					508.0	494.2	495.5	498.4				
	COEFF.		-0.373					-0.120	-0.141	-0.139	-0.135				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							529.1		535.1	534.9	526.6	540.4	553.2	
	COEFF.							-0.087		-0.078	-0.078	-0.091	-0.069	-0.049	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			450.5	465.1	501.5						519.6	514.7	512.1	
	COEFF.			-0.210	-0.187	-0.130						-0.102	-0.109	-0.113	
268.0	ORIFICE	216	217					218							
	PRESSURE	295.0	421.0					482.2							
	COEFF.	-0.453	-0.256					-0.160							
260.0	ORIFICE	207			208										209
	PRESSURE	374.1			451.9										468.0
	COEFF.	-0.329			-0.207										-0.182

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	5	P436-03	TF-556	2/ 4/81	35: 3: 4: 9	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.251	1516.1	584.7	640.3	3.156	101.0	560.7	31536.	598.5	917.6	0.50	1.269	0.542

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			292.1			333.5	386.4		441.3		
	COEFFICIENT			-0.457			-0.392	-0.310		-0.224		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				288.9		336.5	487.8		526.2		
	COEFFICIENT				-0.462		-0.388	-0.151		-0.091		
277.5	ORIFICE							276		277		
	PRESSURE							577.1		564.9		
	COEFFICIENT							-0.012		-0.031		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		597.6		516.5
	COEFFICIENT						9.999	9.999		0.020		-0.107
260.0	ORIFICE	291B	292B									
	PRESSURE	707.2	718.1									
	COEFFICIENT	0.191	0.208									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	554.5	554.1
	COEFFICIENT	-0.047	-0.048

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.0	0.037	0.051	0.124		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.027	0.107	0.150	0.113	0.101	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.062	0.038	0.049	0.052		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	6	P436-03	TF-556	2/ 4/81	35: 3: 4:39	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.251	1517.1	585.1	640.7	3.161	100.7	560.4	31522.	598.9	918.2	0.50	1.270	0.542

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	827.6	198.0	279.3	614.6	606.0	606.1									
	COEFF.	0.378	-0.604	-0.477	0.046	0.033	0.033									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	977.1	231.5	311.2	609.3	607.9	591.2									
	COEFF.	0.612	-0.552	-0.428	0.038	0.036	0.009									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							377.2	361.4	353.7	335.0	322.0	335.6			
	COEFF.							-0.324	-0.349	-0.361	-0.390	-0.410	-0.390			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												317.3	321.2	333.7	
	COEFF.												-0.418	-0.412	-0.392	
	ORIFICE	220	221	222												
278.0	PRESSURE	989.7	239.1	331.5												
	COEFF.	0.631	-0.540	-0.396												
	ORIFICE				223	224	225									
277.0	PRESSURE				601.9	598.5	603.2									
	COEFF.				0.026	0.021	0.028									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													346.8	351.1	359.2
	COEFF.													-0.372	-0.365	-0.353
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	996.6	257.4	481.9	587.2	602.8	597.2									
	COEFF.	0.642	-0.511	-0.161	0.003	0.028	0.019									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1011.9	273.7	501.7	572.3	593.1	586.5									
	COEFF.	0.666	-0.486	-0.130	-0.020	0.012	0.002									

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
44	6	P43G-03	TF-556	2/ 4/81	35: 3: 4:39	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.251	1517.1	585.1	640.7	3.161	100.7	560.4	31522.	598.9	918.2	0.50	1.270	0.542

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	264.4			343.7										558.6
	COEFF.	-0.501			-0.377										-0.041
290.0	ORIFICE	232	233					234							
	PRESSURE	265.0	297.9					453.3							
	COEFF.	-0.500	-0.448					-0.206							
288.0	ORIFICE	253	254					255							
	PRESSURE	357.2	371.3					472.1							
	COEFF.	-0.356	-0.334					-0.176							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						475.5	479.0	485.8						
	COEFF.						-0.171	-0.166	-0.155						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		346.1					508.0	494.0	495.5	498.0				
	COEFF.		-0.373					-0.120	-0.142	-0.140	-0.136				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							529.3		534.6	534.6	527.0	540.4	553.4	
	COEFF.							-0.087		-0.079	-0.079	-0.091	-0.070	-0.049	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			450.6	465.3	501.7						519.8	515.1	516.9	
	COEFF.			-0.210	-0.187	-0.130						-0.102	-0.109	-0.107	
268.0	ORIFICE	216	217					218							
	PRESSURE	294.7	420.7					482.6							
	COEFF.	-0.453	-0.257					-0.160							
260.0	ORIFICE	207			208										209
	PRESSURE	374.2			451.8										468.1
	COEFF.	-0.329			-0.208										-0.183

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	6	P43G-03	TF-556	2/ 4/81	35: 3: 4:39	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.251	1517.1	585.1	640.7	3.161	100.7	560.4	31522.	598.9	918.2	0.50	1.270	0.542

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			292.2			333.7	387.2		441.8		
	COEFFICIENT			-0.457			-0.392	-0.309		-0.224		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				289.0		336.7	488.1		526.8		
	COEFFICIENT				-0.462		-0.388	-0.152		-0.091		
277.5	ORIFICE							276		277		
	PRESSURE							577.3		561.3		
	COEFFICIENT							-0.012		-0.037		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		598.2		517.1
	COEFFICIENT						9.999	9.999		0.020		-0.106
260.0	ORIFICE	2918	2928									
	PRESSURE	707.9	719.1									
	COEFFICIENT	0.192	0.209									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	555.1	554.6
	COEFFICIENT	-0.047	-0.048

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.0	0.035	0.051	0.126	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.027	0.107	0.151	0.114	0.101
273.0	ORIFICE	401	402	403	404	
	VALUE	0.062	0.038	0.049	0.052	

ACCELEROMETER RMS VALUES

	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	7	P436-03	TF-556	2/ 4/81	35: 3: 5: 9	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.253	1515.8	582.7	640.6	3.158	100.6	560.3	31613.	596.4	919.4	0.50	1.270	0.513

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	824.3	197.8	276.2	610.4	607.3	602.3									
	COEFF.	0.377	-0.601	-0.478	0.043	0.038	0.031									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	971.6	230.9	310.5	606.4	606.1	589.9									
	COEFF.	0.607	-0.549	-0.425	0.037	0.037	0.011									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							376.9	361.3	353.6	334.9	322.5	334.8			
	COEFF.							-0.321	-0.346	-0.358	-0.387	-0.406	-0.387			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												315.9	318.9	332.2	
	COEFF.												-0.416	-0.412	-0.391	
278.0	ORIFICE	220	221	222												
	PRESSURE	987.4	238.6	329.5												
	COEFF.	0.632	-0.537	-0.395												
277.0	ORIFICE				223	224	225									
	PRESSURE				600.7	597.9	601.3									
	COEFF.				0.028	0.024	0.029									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													345.5	349.7	357.8
	COEFF.													-0.370	-0.364	-0.351
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	994.6	257.1	479.6	585.3	599.3	595.0									
	COEFF.	0.643	-0.508	-0.161	0.004	0.026	0.019									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1009.9	273.3	500.5	572.3	580.1	583.1									
	COEFF.	0.667	-0.483	-0.128	-0.015	0.010	0.001									

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
44	7	P43G-03	TF-556	2/ 4/81	35: 3: 5: 9	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.253	1515.8	582.7	640.6	3.158	100.6	560.3	31613.	596.4	919.4	0.50	1.270	0.513

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	263.8			341.8										557.9
	COEFF.	-0.498			-0.376										-0.039
290.0	ORIFICE	232	233					234							
	PRESSURE	265.6	295.8					452.5							
	COEFF.	-0.495	-0.448					-0.203							
288.0	ORIFICE	253	254					255							
	PRESSURE	356.5	369.6					469.7							
	COEFF.	-0.353	-0.333					-0.176							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						473.0	476.5	483.5						
	COEFF.						-0.171	-0.166	-0.155						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		344.0					505.8	492.4	493.4	495.7				
	COEFF.		-0.373					-0.120	-0.141	-0.139	-0.136				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							527.3		533.4	533.0	525.3	538.3	552.2	
	COEFF.							-0.086		-0.077	-0.078	-0.089	-0.069	-0.048	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			449.5	464.2	500.0						518.8	513.9	516.5	
	COEFF.			-0.208	-0.185	-0.129						-0.100	-0.107	-0.103	
268.0	ORIFICE	216	217					218							
	PRESSURE	295.8	419.9					480.9							
	COEFF.	-0.448	-0.254					-0.159							
260.0	ORIFICE	207			208										209
	PRESSURE	372.5			450.3										468.6
	COEFF.	-0.328			-0.207										-0.178

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	7	P43G-03	TF-556	2/ 4/81	35: 3: 5: 9	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.253	1515.8	582.7	640.6	3.158	100.6	560.3	31613.	596.4	919.4	0.50	1.270	0.513

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			291.4			332.5	385.9		440.8		
	COEFFICIENT			-0.455			-0.390	-0.307		-0.221		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				287.9		336.4	485.3		523.9		
	COEFFICIENT				-0.460		-0.384	-0.152		-0.092		
277.5	ORIFICE							276		277		
	PRESSURE							575.0		558.5		
	COEFFICIENT							-0.012		-0.038		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		597.9		516.4
	COEFFICIENT						9.999	9.999		0.024		-0.103
260.0	ORIFICE	291B	292B									
	PRESSURE	702.3	718.1									
	COEFFICIENT	0.187	0.212									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	553.0	552.8
	COEFFICIENT	-0.046	-0.047

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.025	0.034	0.053	0.125	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.027	0.104	0.150	0.113	0.099
273.0	ORIFICE	401	402	403	404	
	VALUE	0.062	0.039	0.048	0.051	

ACCELEROMETER RMS VALUES

	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	8	P436-03	TF-556	2/ 4/81	35: 3: 5:41	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.252	1516.5	584.2	640.6	3.159	100.7	560.4	31555.	598.0	918.5	0.50	1.271	0.513

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
300.0	ORIFICE	236	237	238	239	240	241									
	PRESSURE	826.4	197.4	275.9	612.8	605.9	603.8									
	COEFF.	0.378	-0.604	-0.481	0.045	0.034	0.030									
290.0	ORIFICE	226	227	228	229	230	231									
	PRESSURE	974.9	231.0	310.8	608.0	607.1	591.2									
	COEFF.	0.610	-0.551	-0.427	0.037	0.036	0.011									
287.0	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
	PRESSURE							377.0	361.8	354.3	334.5	322.8	335.5			
	COEFF.							-0.324	-0.347	-0.359	-0.390	-0.408	-0.388			
282.0	ORIFICE												*301*	*302*	*303*	
	PRESSURE												316.6	319.9	333.0	
	COEFF.												-0.418	-0.413	-0.392	
278.0	ORIFICE	220	221	222												
	PRESSURE	988.6	238.9	329.5												
	COEFF.	0.631	-0.539	-0.398												
277.0	ORIFICE				223	224	225									
	PRESSURE				601.1	598.1	602.5									
	COEFF.				0.026	0.022	0.029									
275.0	ORIFICE													*291*	*292*	*293*
	PRESSURE													345.8	350.2	358.5
	COEFF.													-0.372	-0.365	-0.352
268.0	ORIFICE	210	211	212	213	214	215									
	PRESSURE	996.7	257.7	480.7	587.2	602.3	596.8									
	COEFF.	0.644	-0.510	-0.162	0.005	0.028	0.020									
260.0	ORIFICE	201	202	203	204	205	206									
	PRESSURE	1011.0	273.3	500.6	571.4	590.6	584.3									
	COEFF.	0.666	-0.485	-0.131	-0.020	0.010	0.000									

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION-WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEL	CART	
44	8	P43G-03	TF-556	2/ 4/81	35: 3: 5:41	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.252	1516.5	584.2	640.6	3.159	100.7	560.4	31555.	598.0	918.5	0.50	1.271	0.513

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	263.7			341.3										558.1
	COEFF.	-0.500			-0.379										-0.041
290.0	ORIFICE	232	233					234							
	PRESSURE	265.9	295.8					452.5							
	COEFF.	-0.497	-0.450					-0.206							
288.0	ORIFICE	253	254					255							
	PRESSURE	355.7	370.1					470.9							
	COEFF.	-0.357	-0.334					-0.177							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						475.0	478.3	485.7						
	COEFF.						-0.170	-0.165	-0.154						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		344.7					506.9	494.0	495.2	496.9				
	COEFF.		-0.374					-0.121	-0.141	-0.139	-0.136				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							528.9		534.8	534.6	527.4	539.9	553.0	
	COEFF.							-0.086		-0.077	-0.078	-0.089	-0.069	-0.049	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			450.5	464.9	501.0						519.8	515.0	514.7	
	COEFF.			-0.209	-0.186	-0.130						-0.101	-0.108	-0.109	
268.0	ORIFICE	216	217					218							
	PRESSURE	296.6	420.8					481.7							
	COEFF.	-0.449	-0.255					-0.160							
260.0	ORIFICE	207			208										209
	PRESSURE	372.8			451.0										469.1
	COEFF.	-0.330			-0.208										-0.180

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	TRANSONIC 16T
44	8	P436-03	TF-556	2/ 4/81	35: 3: 5:41	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.252	1516.5	584.2	640.6	3.159	100.7	560.4	31555.	598.0	918.5	0.50	1.271	0.513

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			291.7			332.8	386.0		441.2		
	COEFFICIENT			-0.457			-0.393	-0.310		-0.223		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				288.2		336.7	486.7		525.2		
	COEFFICIENT				-0.462		-0.386	-0.152		-0.092		
277.5	ORIFICE							276		277		
	PRESSURE							576.7		555.8		
	COEFFICIENT							-0.012		-0.044		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		597.9		516.8
	COEFFICIENT						9.999	9.999		0.021		-0.105
260.0	ORIFICE	291P	292B									
	PRESSURE	705.5	717.2									
	COEFFICIENT	0.189	0.208									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	554.2	553.9
	COEFFICIENT	-0.047	-0.047

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.023	0.034	0.051	0.126	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.027	0.107	0.148	0.112	0.101
273.0	ORIFICE	401	402	403	404	
	VALUE	0.062	0.039	0.048	0.051	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELBI	PROD DATE	WINDOFF	SET	CART	
44	9	P436-03	TF-556	2/ 4/81	35: 3: 6: 9	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.253	1516.2	582.9	640.8	3.161	100.4	560.1	31606.	596.6	919.6	0.50	1.270	0.513

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	824.8	197.4	275.7	611.1	604.9	602.8									
	COEFF.	0.378	-0.602	-0.479	0.044	0.034	0.031									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	972.2	230.4	310.0	606.5	606.1	590.1									
	COEFF.	0.608	-0.550	-0.426	0.037	0.036	0.011									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							376.9	361.3	353.8	334.7	322.3	334.4			
	COEFF.							-0.321	-0.346	-0.357	-0.387	-0.407	-0.388			
	ORIFICE											*301*	*302*	*303*		
282.0	PRESSURE											315.9	318.9	331.8		
	COEFF.											-0.417	-0.412	-0.392		
	ORIFICE	220	221	222												
278.0	PRESSURE	987.2	238.4	329.3												
	COEFF.	0.631	-0.538	-0.396												
	ORIFICE				223	224	225									
277.0	PRESSURE				600.4	597.3	601.6									
	COEFF.				0.027	0.023	0.029									
	ORIFICE												*291*	*292*	*293*	
275.0	PRESSURE												345.1	349.3	357.8	
	COEFF.												-0.371	-0.364	-0.351	
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	995.3	257.0	480.0	586.0	600.6	595.7									
	COEFF.	0.644	-0.509	-0.161	0.005	0.028	0.020									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1010.1	273.1	500.4	574.5	589.5	583.5									
	COEFF.	0.667	-0.483	-0.129	-0.013	0.010	0.001									

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	9	P43G-03	TF-556	2/ 4/81	35: 3: 6: 9	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.253	1516.2	582.9	640.8	3.161	100.4	560.1	31606.	596.6	919.6	0.50	1.270	0.513

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	263.5			341.1										557.8
	COEFF.	-0.498			-0.377										-0.039
290.0	ORIFICE	232	233					234							
	PRESSURE	265.1	295.3					452.2							
	COEFF.	-0.496	-0.449					-0.204							
288.0	ORIFICE	253	254					255							
	PRESSURE	354.9	369.4					469.5							
	COEFF.	-0.356	-0.333					-0.177							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						473.0	476.5	483.7						
	COEFF.						-0.171	-0.166	-0.155						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		344.1					506.1	492.3	493.8	496.8				
	COEFF.		-0.373					-0.120	-0.141	-0.139	-0.134				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							527.9		533.8	533.4	525.5	539.2	552.4	
	COEFF.							-0.086		-0.077	-0.077	-0.089	-0.068	-0.047	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			449.6	464.1	500.7						518.6	513.8	515.2	
	COEFF.			-0.208	-0.185	-0.128						-0.100	-0.108	-0.106	
268.0	ORIFICE	216	217					218							
	PRESSURE	295.9	419.9					480.3							
	COEFF.	-0.448	-0.254					-0.160							
260.0	ORIFICE	207			208										209
	PRESSURE	372.4			450.2										468.9
	COEFF.	-0.328			-0.207										-0.178

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	9	P43G-03	TF-556	2/ 4/81	35: 3: 6: 9	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.253	1516.2	582.9	640.8	3.161	100.4	560.1	31606.	596.6	919.6	0.50	1.270	0.513

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			291.0			332.1	385.4		440.3		
	COEFFICIENT			-0.455			-0.391	-0.308		-0.223		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				287.7		335.9	484.5		523.9		
	COEFFICIENT				-0.461		-0.385	-0.154		-0.092		
277.5	ORIFICE							276		277		
	PRESSURE							575.1		553.1		
	COEFFICIENT							-0.012		-0.046		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		597.3		516.2
	COEFFICIENT						9.999	9.999		0.023		-0.104
260.0	ORIFICE	291B	292B									
	PRESSURE	703.4	717.2									
	COEFFICIENT	0.188	0.210									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE						261			262		
	PRESSURE						552.9			552.9		
	COEFFICIENT						-0.047			-0.047		

KULITE RMS VALUES

287.0	ORIFICE			410	411			412		413		
	VALUE			0.023	0.031			0.053		0.125		
278.0	ORIFICE			405	406			407		408	409	
	VALUE			0.027	0.106			0.148		0.111	0.099	
273.0	ORIFICE			401	402			403		404		
	VALUE			0.062	0.039			0.048		0.051		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	10	P436-03	TF-556	2/ 4/81	35: 3: 6:39	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.252	1516.1	583.8	640.5	3.161	100.4	560.1	31569.	597.6	918.5	0.50	1.270	0.513

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	826.2	197.7	276.7	612.7	605.9	603.6									
	COEFF.	0.378	-0.603	-0.480	0.045	0.034	0.031									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	974.3	230.9	310.6	607.3	606.8	591.1									
	COEFF.	0.610	-0.551	-0.427	0.037	0.036	0.011									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							377.0	361.4	353.7	333.9	322.2	334.5			
	COEFF.							-0.323	-0.347	-0.359	-0.390	-0.409	-0.389			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												316.5	319.7	333.2	
	COEFF.												-0.417	-0.412	-0.391	
	ORIFICE	220	221	222												
278.0	PRESSURE	988.5	238.9	330.2												
	COEFF.	0.632	-0.539	-0.396												
	ORIFICE				223	224	225									
277.0	PRESSURE				601.1	597.9	602.3									
	COEFF.				0.027	0.022	0.029									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													345.7	349.9	358.1
	COEFF.													-0.372	-0.365	-0.352
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	995.8	257.3	480.8	586.7	601.8	596.2									
	COEFF.	0.643	-0.510	-0.161	0.004	0.028	0.019									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1010.1	273.1	500.7	575.1	590.3	584.1									
	COEFF.	0.665	-0.485	-0.130	-0.014	0.010	0.000									

DATE. 2-27-81 PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
44	10	P430-03	TF-556	2/ 4/81	35: 3: 6:39	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.252	1516.1	583.8	640.5	3.161	100.4	560.1	31569.	597.6	918.5	0.50	1.270	0.514

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	263.8			341.4										558.4
	COEFF.	-0.500			-0.378										-0.040
290.0	ORIFICE	232	233					234							
	PRESSURE	265.3	295.8					452.6							
	COEFF.	-0.497	-0.450					-0.205							
288.0	ORIFICE	253	254					255							
	PRESSURE	354.8	370.0					470.8							
	COEFF.	-0.358	-0.334					-0.177							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						474.0	477.2	484.9						
	COEFF.						-0.172	-0.166	-0.154						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		344.9					507.1	493.6	494.6	496.2				
	COEFF.		-0.373					-0.120	-0.141	-0.139	-0.137				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							528.7		535.0	534.4	526.5	539.1	553.2	
	COEFF.							-0.086		-0.076	-0.077	-0.089	-0.070	-0.048	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			450.0	464.4	500.8						519.6	514.8	514.5	
	COEFF.			-0.209	-0.186	-0.130						-0.100	-0.108	-0.108	
268.0	ORIFICE	216	217					218							
	PRESSURE	295.4	420.3					481.6							
	COEFF.	-0.450	-0.255					-0.160							
260.0	ORIFICE	207			208										209
	PRESSURE	372.4			450.8										468.4
	COEFF.	-0.330			-0.208										-0.180

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
44	10	P43G-03	TF-556	2/ 4/81	35: 3: 6:39	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	PEX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.252	1516.1	583.8	640.5	3.161	100.4	560.1	31569.	597.6	918.5	0.50	1.270	0.513

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
	ORIFICE			282			283	284		285		
282.0	PRESSURE			291.4			332.6	385.6		441.0		
	COEFFICIENT			-0.457			-0.392	-0.310		-0.223		
	ORIFICE				278		279	280		281		
280.0	PRESSURE				288.0		336.3	485.8		525.1		
	COEFFICIENT				-0.462		-0.387	-0.153		-0.092		
	ORIFICE							276		277		
277.5	PRESSURE							576.0		551.5		
	COEFFICIENT							-0.012		-0.051		
	ORIFICE						271	272		273		274
276.0	PRESSURE						0.0	0.0		597.8		516.7
	COEFFICIENT						9.999	9.999		0.022		-0.105
	ORIFICE	291B	292B									
260.0	PRESSURE	705.6	717.8									
	COEFFICIENT	0.190	0.209									

INSIDE PRESSURE ORIFICES

	ORIFICE	261	262
276.0	PRESSURE	553.8	553.5
	COEFFICIENT	-0.047	-0.047

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.023	0.035	0.053	0.125	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.027	0.105	0.151	0.113	0.100
273.0	ORIFICE	401	402	403	404	
	VALUE	0.062	0.039	0.049	0.051	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELRI	PROD DATE	WINDOFF	SEI	CART	
44	11	P43G-03	TF-556	2/ 4/81	35: 3: 7: 9	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.254	1516.4	582.2	641.0	3.161	100.4	560.1	31632.	595.9	920.5	0.50	1.271	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	823.4	197.3	275.3	610.1	604.2	602.7									
	COEFF.	0.376	-0.600	-0.479	0.044	0.034	0.032									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	971.1	230.5	309.8	605.8	605.9	588.9									
	COEFF.	0.607	-0.549	-0.425	0.037	0.037	0.011									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							377.0	361.7	354.0	335.0	322.4	334.5			
	COEFF.							-0.320	-0.344	-0.356	-0.386	-0.405	-0.386			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												315.2	318.0	331.1	
	COEFF.												-0.416	-0.412	-0.392	
	ORIFICE	220	221	222												
278.0	PRESSURE	986.8	238.3	328.8												
	COEFF.	0.631	-0.536	-0.395												
	ORIFICE				223	224	225									
277.0	PRESSURE				600.7	597.7	601.2									
	COEFF.				0.029	0.024	0.030									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													344.6	348.7	357.0
	COEFF.													-0.371	-0.364	-0.351
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	994.8	256.9	479.3	585.4	598.8	595.0									
	COEFF.	0.644	-0.507	-0.160	0.005	0.026	0.020									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1009.4	272.9	499.9	575.1	588.3	582.2									
	COEFF.	0.667	-0.482	-0.128	-0.011	0.010	0.000									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	11	P436-03	TF-556	2/ 4/81	35: 3: 7: 9	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.254	1516.4	582.2	641.0	3.161	100.4	560.1	31632.	595.9	920.5	0.50	1.271	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	263.3			340.5										557.7
	COEFF.	-0.497			-0.377										-0.038
290.0	ORIFICE	232	233					234							
	PRESSURE	265.3	295.1					452.0							
	COEFF.	-0.494	-0.448					-0.203							
288.0	ORIFICE	253	254					255							
	PRESSURE	354.1	368.8					469.3							
	COEFF.	-0.356	-0.333					-0.176							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						472.7	476.4	483.4						
	COEFF.						-0.171	-0.165	-0.154						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		343.4					505.4	492.1	493.3	495.4				
	COEFF.		-0.372					-0.120	-0.141	-0.139	-0.135				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							526.5		533.1	533.1	525.5	538.9	552.6	
	COEFF.							-0.087		-0.076	-0.076	-0.088	-0.067	-0.046	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			449.0	463.6	498.9						517.9	513.1	515.8	
	COEFF.			-0.208	-0.185	-0.130						-0.100	-0.108	-0.104	
268.0	ORIFICE	216	217					218							
	PRESSURE	295.9	419.7					480.6							
	COEFF.	-0.447	-0.254					-0.158							
260.0	ORIFICE	207			208										209
	PRESSURE	371.2			449.6										468.3
	COEFF.	-0.329			-0.207										-0.178

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
44	11	P436-03	TF-556	2/ 4/81	35: 3: 7: 9	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.254	1516.4	582.2	641.0	3.161	100.4	560.1	31632.	595.9	920.5	0.50	1.271	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 900ST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			290.8			331.8	384.8		440.1		
	COEFFICIENT			-0.455			-0.391	-0.308		-0.222		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				287.3		335.8	484.0		523.2		
	COEFFICIENT				-0.460		-0.384	-0.153		-0.092		
277.5	ORIFICE							276		277		
	PRESSURE							574.2		549.5		
	COEFFICIENT							-0.012		-0.051		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		597.5		516.3
	COEFFICIENT						9.999	9.999		0.024		-0.103
260.0	ORIFICE	291B	292B									
	PRESSURE	701.4	717.1									
	COEFFICIENT	0.186	0.211									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	552.6	552.3
	COEFFICIENT	-0.046	-0.047

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.025	0.034	0.053	0.125		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.027	0.106	0.149	0.114	0.100	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.063	0.039	0.048	0.051		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	12	P436-03	TF-556	2/ 4/81	35: 3: 7:39	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.259	1516.7	578.2	642.0	3.159	100.7	560.4	31780.	591.9	924.8	0.50	1.270	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	817.1	196.6	271.2	601.8	607.0	603.0									
	COEFF.	0.372	-0.594	-0.478	0.037	0.045	0.039									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	965.4	228.0	305.5	601.3	599.6	580.0									
	COEFF.	0.603	-0.545	-0.425	0.036	0.033	0.003									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							372.2	357.9	351.2	334.1	320.8	332.3			
	COEFF.							-0.321	-0.343	-0.353	-0.380	-0.401	-0.383			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												314.0	316.4	329.5	
	COEFF.												-0.412	-0.408	-0.387	
	ORIFICE	220	221	222												
278.0	PRESSURE	984.5	237.2	324.3												
	COEFF.	0.633	-0.531	-0.396												
	ORIFICE				223	224	225									
277.0	PRESSURE				592.4	592.8	595.4									
	COEFF.				0.022	0.023	0.027									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													341.8	345.8	353.6
	COEFF.													-0.368	-0.362	-0.350
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	992.6	255.1	470.3	578.8	585.3	587.5									
	COEFF.	0.646	-0.503	-0.168	0.001	0.011	0.015									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	1008.2	271.4	496.5	568.1	580.7	576.1									
	COEFF.	0.670	-0.478	-0.127	-0.016	0.004	-0.003									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	12	P436-03	TF-556	2/ 4/81	35: 3: 7:39	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.259	1516.7	578.2	642.0	3.159	100.7	560.4	31780.	591.9	924.8	0.50	1.270	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	262.4			335.7										555.0
	COEFF.	-0.492			-0.378										-0.036
290.0	ORIFICE	232	233					234							
	PRESSURE	266.6	291.9					449.6							
	COEFF.	-0.485	-0.446					-0.200							
288.0	ORIFICE	253	254					255							
	PRESSURE	353.7	364.8					464.6							
	COEFF.	-0.350	-0.332					-0.177							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						467.4	471.1	477.9						
	COEFF.						-0.173	-0.167	-0.156						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		339.0					500.7	485.9	487.6	490.8				
	COEFF.		-0.373					-0.121	-0.144	-0.141	-0.136				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							522.5		528.7	527.0	520.6	534.7	548.4	
	COEFF.							-0.087		-0.077	-0.080	-0.090	-0.068	-0.046	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			445.6	460.4	496.0						515.6	511.3	513.5	
	COEFF.			-0.207	-0.183	-0.128						-0.097	-0.104	-0.101	
268.0	ORIFICE	216	217					218							
	PRESSURE	298.5	416.6					479.7							
	COEFF.	-0.436	-0.252					-0.153							
260.0	ORIFICE	207			208										209
	PRESSURE	366.6			447.1										472.2
	COEFF.	-0.330			-0.204										-0.165

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
44	12	P436-03	TF-556	2/ 4/81	35: 3: 7:39	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.259	1516.7	578.2	642.0	3.159	100.7	560.4	31780.	591.9	924.8	0.50	1.270	0.485

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			288.9			328.2	378.6		436.6		
	COEFFICIENT			-0.451			-0.389	-0.311		-0.221		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				284.9		333.9	475.9		515.7		
	COEFFICIENT				-0.457		-0.381	-0.159		-0.097		
277.5	ORIFICE							276		277		
	PRESSURE							570.3		547.6		
	COEFFICIENT							-0.012		-0.048		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		594.6		514.0
	COEFFICIENT						9.999	9.999		0.026		-0.100
260.0	ORIFICE	291B	292B									
	PRESSURE	688.1	711.5									
	COEFFICIENT	0.171	0.208									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE						261			262		
	PRESSURE						548.3			548.0		
	COEFFICIENT						-0.047			-0.047		

KULITE RMS VALUES

287.0	ORIFICE			410	411			412			413	
	VALUE			0.023	0.024			0.050			0.126	
278.0	ORIFICE			405	406			407			408	409
	VALUE			0.026	0.101			0.152			0.115	0.101
273.0	ORIFICE			401	402			403			404	
	VALUE			0.064	0.037			0.047			0.052	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	1	P436-03	TF-556	2/ 4/81	35: 3:12:39	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1517.6	476.0	654.3	3.108	101.7	561.4	35912.	488.9	1028.7	0.50	1.320	0.433

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	738.9	187.5	246.6	445.6	505.7	501.4									
	COEFF.	0.402	-0.441	-0.351	-0.046	0.045	0.039									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	891.9	212.8	279.2	474.2	487.7	486.8									
	COEFF.	0.636	-0.402	-0.301	-0.003	0.018	0.016									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							323.9	312.4	305.5	289.3	278.0	290.5			
	COEFF.							-0.232	-0.250	-0.261	-0.285	-0.304	-0.283			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												267.1	270.5	278.4	
	COEFF.												-0.319	-0.314	-0.302	
	ORIFICE	220	221	222												
278.0	PRESSURE	907.7	223.1	293.9												
	COEFF.	0.660	-0.387	-0.278												
	ORIFICE				223	224	225									
277.0	PRESSURE				480.5	476.3	484.8									
	COEFF.				0.007	0.000	0.013									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													272.1	274.9	280.6
	COEFF.													-0.312	-0.307	-0.299
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	906.5	232.5	298.7	479.6	475.9	480.4									
	COEFF.	0.658	-0.372	-0.271	0.005	-0.000	0.007									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	922.4	238.4	293.9	473.3	470.8	470.9									
	COEFF.	0.682	-0.363	-0.278	-0.004	-0.008	-0.008									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
45	1	P436-03	TF-556	2/ 4/81	35: 3:12:39	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1517.6	476.0	654.3	3.108	101.7	561.4	35912.	488.9	1028.7	0.50	1.320	0.433

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	241.6			263.6										435.4
	COEFF.	-0.358			-0.325										-0.062
290.0	ORIFICE	232	233					234							
	PRESSURE	234.3	248.1					321.4							
	COEFF.	-0.369	-0.348					-0.236							
288.0	ORIFICE	253	254					255							
	PRESSURE	308.6	302.0					352.7							
	COEFF.	-0.256	-0.266					-0.188							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						353.4	357.5	364.0						
	COEFF.						-0.187	-0.181	-0.171						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		283.3					374.6	371.7	370.3	370.5				
	COEFF.		-0.295					-0.155	-0.160	-0.162	-0.161				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							400.3		403.3	403.3	384.2	382.5	373.5	
	COEFF.							-0.116		-0.111	-0.111	-0.140	-0.143	-0.157	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			345.7	355.7	384.0						385.2	375.4	375.3	
	COEFF.			-0.199	-0.184	-0.141						-0.139	-0.154	-0.154	
268.0	ORIFICE	216	217					218							
	PRESSURE	236.4	334.9					384.3							
	COEFF.	-0.366	-0.216					-0.140							
260.0	ORIFICE	207			208										209
	PRESSURE	272.8			371.8										349.0
	COEFF.	-0.311			-0.159										-0.194

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	1	P436-03	TF-556	2/ 4/81	35: 3:12:39	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1517.6	476.0	654.3	3.108	101.7	561.4	35912.	488.9	1028.7	0.50	1.320	0.433

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			236.5			270.0	324.9		344.7		
	COEFFICIENT			-0.366			-0.315	-0.231		-0.201		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				227.3		306.7	387.4		406.1		
	COEFFICIENT				-0.380		-0.259	-0.136		-0.107		
277.5	ORIFICE							276		277		
	PRESSURE							470.6		471.0		
	COEFFICIENT							-0.008		-0.008		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		489.5		376.9
	COEFFICIENT						9.999	9.999		0.021		-0.151
260.0	ORIFICE	2918	2928									
	PRESSURE	580.3	578.1									
	COEFFICIENT	0.159	0.156									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	456.5	456.0
	COEFFICIENT	-0.030	-0.031

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.0	0.0	0.035	0.062	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.025	0.084	0.138	0.081	0.097
273.0	ORIFICE	401	402	403	404	
	VALUE	0.055	0.031	0.035	0.041	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	2	P436-03	TF-556	2/ 4/81	35: 3:13: 2	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1516.9	476.3	654.0	3.113	100.9	560.6	35889.	489.2	1027.7	0.50	1.321	0.433

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	739.3	187.7	246.6	445.4	506.6	501.6									
	COEFF.	0.402	-0.441	-0.351	-0.047	0.046	0.039									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	892.5	213.0	279.6	474.3	487.8	487.1									
	COEFF.	0.636	-0.403	-0.301	-0.003	0.017	0.016									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							324.2	312.7	305.6	289.4	278.3	291.3			
	COEFF.							-0.233	-0.250	-0.261	-0.286	-0.303	-0.283			
	ORIFICE											*301*	*302*	*303*		
282.0	PRESSURE											267.4	270.8	277.8		
	COEFF.											-0.320	-0.314	-0.304		
	ORIFICE	220	221	222												
278.0	PRESSURE	908.5	223.2	294.2												
	COEFF.	0.661	-0.387	-0.278												
	ORIFICE				223	224	225									
277.0	PRESSURE				481.3	476.8	485.5									
	COEFF.				0.008	0.001	0.014									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													272.2	275.1	280.7
	COEFF.													-0.312	-0.308	-0.299
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	907.1	232.6	298.8	480.5	476.3	480.4									
	COEFF.	0.659	-0.373	-0.272	0.006	0.000	0.006									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	922.6	238.3	293.9	475.5	470.8	470.9									
	COEFF.	0.682	-0.364	-0.279	-0.001	-0.008	-0.008									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY	HR	MIN	SEC	MODE	DELPI	PROD DATE	WINDOEF	SET	CART	
45	2	P436-03	TF-556	2/ 4/81	35:	3:	13:	2	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1516.9	476.3	654.0	3.113	100.9	560.6	35889.	489.2	1027.7	0.50	1.321	0.433

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	241.0			264.3										435.7
	COEFF.	-0.360			-0.324										-0.062
290.0	ORIFICE	232	233					234							
	PRESSURE	234.5	247.9					321.3							
	COEFF.	-0.370	-0.349					-0.237							
288.0	ORIFICE	253	254					255							
	PRESSURE	307.5	302.1					352.7							
	COEFF.	-0.258	-0.266					-0.189							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						353.7	357.8	364.5						
	COEFF.						-0.188	-0.181	-0.171						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		283.3					375.1	372.2	371.0	370.4				
	COEFF.		-0.295					-0.155	-0.159	-0.161	-0.162				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							400.4		402.9	403.4	384.5	383.0	373.8	
	COEFF.							-0.116		-0.112	-0.111	-0.140	-0.143	-0.157	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			346.0	356.1	383.2						385.3	375.9	374.3	
	COEFF.			-0.199	-0.184	-0.142						-0.139	-0.154	-0.156	
268.0	ORIFICE	216	217					218							
	PRESSURE	236.3	334.7					384.6							
	COEFF.	-0.367	-0.217					-0.140							
260.0	ORIFICE	207			208										209
	PRESSURE	272.6			371.7										348.7
	COEFF.	-0.311			-0.160										-0.195

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	2	P436-03	TF-556	2/ 4/81	35: 3:13: 2	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1516.9	476.3	654.0	3.113	100.9	560.6	35889.	489.2	1027.7	0.50	1.321	0.433

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	241.0			264.3										435.7
	COEFF.	-0.360			-0.324										-0.062
290.0	ORIFICE	232	233					234							
	PRESSURE	234.5	247.9					321.3							
	COEFF.	-0.370	-0.349					-0.237							
288.0	ORIFICE	253	254					255							
	PRESSURE	307.5	302.1					352.7							
	COEFF.	-0.258	-0.266					-0.189							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						353.7	357.8	364.5						
	COEFF.						-0.188	-0.181	-0.171						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		283.3					375.1	372.2	371.0	370.4				
	COEFF.		-0.295					-0.155	-0.159	-0.161	-0.162				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							400.4		402.9	403.4	384.5	383.0	373.8	
	COEFF.							-0.116		-0.112	-0.111	-0.140	-0.143	-0.157	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			346.0	356.1	383.2						385.3	375.9	374.3	
	COEFF.			-0.199	-0.184	-0.142						-0.139	-0.154	-0.156	
268.0	ORIFICE	216	217					218							
	PRESSURE	236.3	334.7					384.6							
	COEFF.	-0.367	-0.217					-0.140							
260.0	ORIFICE	207			208										209
	PRESSURE	272.6			371.7										348.7
	COEFF.	-0.311			-0.160										-0.195

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	2	P436-03	TF-556	2/ 4/81	35: 3:13: 2	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1516.9	476.3	654.0	3.113	100.9	560.6	35889.	489.2	1027.7	0.50	1.321	0.433

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			236.7			270.0	325.1		345.2		
	COEFFICIENT			-0.366			-0.315	-0.231		-0.201		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				227.4		307.0	387.9		406.7		
	COEFFICIENT				-0.381		-0.259	-0.135		-0.106		
277.5	ORIFICE							276		277		
	PRESSURE							470.9		467.4		
	COEFFICIENT							-0.008		-0.014		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		489.3		377.5
	COEFFICIENT						9.999	9.999		0.020		-0.151
260.0	ORIFICE	291B	292B									
	PRESSURE	580.8	577.5									
	COEFFICIENT	0.160	0.155									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE					261		262	
	PRESSURE					457.0		456.0	
	COEFFICIENT					-0.030		-0.030	

KULITE RMS VALUES

287.0	ORIFICE			420	421		422	423	
	VALUE			0.0	0.0		0.038	0.062	
278.0	ORIFICE			405	406		407	408	409
	VALUE			0.025	0.065		0.139	0.081	0.097
273.0	ORIFICE			401	402		403	404	
	VALUE			0.055	0.031		0.035	0.041	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
45	3	P43G-03	TF-556	2/ 4/81	35: 3:13:33	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.407	1520.6	473.2	655.7	3.113	101.4	561.1	36041.	486.1	1034.5	0.50	1.325	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	740.4	188.2	246.9	438.3	502.7	496.4									
	COEFF.	0.407	-0.435	-0.345	-0.053	0.045	0.035									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	891.6	213.4	279.5	470.6	483.9	476.5									
	COEFF.	0.638	-0.396	-0.295	-0.004	0.016	0.005									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							322.0	310.4	303.1	285.6	275.2	288.4			
	COEFF.							-0.231	-0.248	-0.259	-0.286	-0.302	-0.282			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												264.7	268.3	275.3	
	COEFF.												-0.318	-0.313	-0.302	
	ORIFICE	220	221	222												
278.0	PRESSURE	908.8	223.1	293.1												
	COEFF.	0.664	-0.381	-0.275												
	ORIFICE				223	224	225									
277.0	PRESSURE				479.3	474.2	481.4									
	COEFF.				0.009	0.001	0.012									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													269.8	272.5	277.8
	COEFF.													-0.310	-0.306	-0.298
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	906.6	231.4	297.8	479.8	473.0	473.8									
	COEFF.	0.661	-0.369	-0.268	0.010	-0.000	0.001									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	923.3	238.7	293.6	473.6	469.8	468.1									
	COEFF.	0.686	-0.358	-0.274	0.001	-0.005	-0.008									

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
45	3	P43G-03	TF-556	2/ 4/81	35: 3:13:33	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.407	1520.6	473.2	655.7	3.113	101.4	561.1	36041.	486.1	1034.5	0.50	1.325	0.400

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	240.0			263.5										431.3
	COEFF.	-0.356			-0.320										-0.064
290.0	ORIFICE	232	233					234							
	PRESSURE	232.9	246.7					318.9							
	COEFF.	-0.367	-0.346					-0.235							
288.0	ORIFICE	253	254					255							
	PRESSURE	306.3	300.4					350.1							
	COEFF.	-0.255	-0.264					-0.188							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						351.0	355.1	361.6						
	COEFF.						-0.186	-0.180	-0.170						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		283.2					371.8	368.9	367.9	368.4				
	COEFF.		-0.290					-0.155	-0.159	-0.161	-0.160				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							397.1		400.7	399.7	381.6	360.6	371.8	
	COEFF.							-0.136		-0.111	-0.115	-0.139	-0.141	-0.155	
275.0	ORIFICE			*294*	*295*	*296*							*297*	*298*	*299*
	PRESSURE			342.8	352.5	370.1							363.8	377.1	373.8
	COEFF.			-0.200	-0.184	-0.1[illegible]							-0.157	-0.151	-0.153
268.0	ORIFICE	216	217					218							
	PRESSURE	234.0	331.3					383.0							
	COEFF.	-0.365	-0.217					-0.138							
260.0	ORIFICE	207			208										209
	PRESSURE	270.6			368.5										346.1
	COEFF.	-0.309			-0.160										-0.191

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	3	P43G-03	TF-556	2/ 4/81	35: 3:13:33	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.407	1520.6	473.2	655.7	3.113	101.4	561.1	36041.	486.1	1034.5	0.50	1.325	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0 ORIFICE			282			283	284		285		
PRESSURE			235.6			269.0	323.9		343.7		
COEFFICIENT			-0.363			-0.311	-0.228		-0.198		
280.0 ORIFICE				278		279	280		281		
PRESSURE				226.0		306.3	385.8		406.3		
COEFFICIENT				-0.377		-0.255	-0.133		-0.102		
277.5 ORIFICE							276		277		
PRESSURE							467.3		462.9		
COEFFICIENT							-0.009		-0.016		
276.0 ORIFICE						271	272		273		274
PRESSURE						0.0	0.0		488.5		376.4
COEFFICIENT						9.999	9.999		0.023		-0.148
260.0 ORIFICE	2916	2928									
PRESSURE	580.5	577.0									
COEFFICIENT	0.164	0.158									

INSIDE PRESSURE ORIFICES

276.0 ORIFICE	261	262
PRESSURE	454.2	454.1
COEFFICIENT	-0.029	-0.029

KULITE RMS VALUES

287.0 ORIFICE	410	411	412	413		
VALUE	0.043	0.0	0.034	0.062		
278.0 ORIFICE	405	406	407	408	409	
VALUE	0.025	0.091	0.131	0.078	0.096	
273.0 ORIFICE	401	402	403	404		
VALUE	0.055	0.033	0.035	0.041		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	4	P43G-03	TF-556	2/ 4/81	35: 3:14:22	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.400	1517.8	476.8	654.4	3.106	102.1	561.8	35868.	489.7	1028.1	0.50	1.326	0.409

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	740.5	188.9	247.6	445.3	507.7	501.8									
	COEFF.	0.403	-0.440	-0.350	-0.048	0.047	0.038									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	893.3	213.7	280.2	474.6	487.9	486.8									
	COEFF.	0.636	-0.402	-0.300	-0.003	0.017	0.015									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							324.7	312.7	305.6	289.2	278.4	292.0			
	COEFF.							-0.232	-0.251	-0.262	-0.287	-0.303	-0.282			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												268.3	271.7	278.7	
	COEFF.												-0.319	-0.313	-0.303	
	ORIFICE	220	221	222												
278.0	PRESSURE	909.3	224.2	295.1												
	COEFF.	0.661	-0.386	-0.278												
	ORIFICE				223	224	225									
277.0	PRESSURE				481.8	477.3	485.3									
	COEFF.				0.008	0.001	0.013									
	ORIFICE												*291*	*292*	*293*	
275.0	PRESSURE												272.5	275.2	280.9	
	COEFF.												-0.312	-0.308	-0.295	
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	907.3	232.7	299.0	480.8	476.1	479.8									
	COEFF.	0.658	-0.373	-0.272	0.006	-0.001	0.004									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	923.7	239.2	294.5	474.7	471.8	471.4									
	COEFF.	0.683	-0.363	-0.279	-0.003	-0.008	-0.008									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
45	4	P436-03	TF-556	2/ 4/81	35: 3:14:22	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.400	1517.8	476.8	654.4	3.106	102.1	561.8	35868.	489.7	1028.1	0.50	1.326	0.409

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	241.5			264.7										435.4
	COEFF.	-0.360			-0.324										-0.063
290.0	ORIFICE	232	233					234							
	PRESSURE	234.9	248.1					322.0							
	COEFF.	-0.370	-0.350					-0.237							
288.0	ORIFICE	253	254					255							
	PRESSURE	306.0	302.3					352.7							
	COEFF.	-0.261	-0.267					-0.190							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						353.1	357.9	364.5						
	COEFF.						-0.189	-0.182	-0.172						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		283.9					375.4	372.5	371.3	370.5				
	COEFF.		-0.295					-0.155	-0.159	-0.161	-0.162				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							401.1		404.1	403.9	384.3	383.3	373.6	
	COEFF.							-0.116		-0.111	-0.111	-0.141	-0.143	-0.158	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			346.3	356.4	383.9						386.5	376.6	378.7	
	COEFF.			-0.199	-0.184	-0.142						-0.138	-0.153	-0.150	
268.0	ORIFICE	216	217					218							
	PRESSURE	236.2	335.0					385.4							
	COEFF.	-0.368	-0.217					-0.140							
260.0	ORIFICE	207			208										209
	PRESSURE	273.1			372.3										349.3
	COEFF.	-0.311			-0.160										-0.195

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	4	P43G-03	TF-556	2/ 4/81	35: 3:14:22	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.400	1517.8	476.8	654.4	3.106	102.1	561.8	35868.	489.7	1028.1	0.50	1.326	0.409

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			237.1			270.6	325.6		345.6		
	COEFFICIENT			-0.366			-0.315	-0.231		-0.201		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				227.7		307.8	388.0		407.4		
	COEFFICIENT				-0.381		-0.258	-0.136		-0.106		
277.5	ORIFICE							276		277		
	PRESSURE							471.1		457.6		
	COEFFICIENT							-0.009		-0.029		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		489.5		377.7
	COEFFICIENT						9.999	9.999		0.019		-0.151
260.0	ORIFICE	291B	292B									
	PRESSURE	581.6	577.5									
	COEFFICIENT	0.160	0.154									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE						261			262		
	PRESSURE						457.2			457.2		
	COEFFICIENT						-0.030			-0.030		

KULITE RMS VALUES

287.0	ORIFICE			400	401		402		403
	VALUE			0.0	0.0		0.035		0.003
278.0	ORIFICE			405	406		407	408	409
	VALUE			0.025	0.085		0.137	0.081	0.097
273.0	ORIFICE			401	402		403		404
	VALUE			0.055	0.031		0.035		0.041

ACCELEROMETER RMS VALUES

1	2	3
0.0000	0.0000	0.0000

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
45	5	P436-03	TF-556	2/ 4/81	35: 3:14:53	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1520.0	477.3	655.3	3.121	100.5	560.3	35847.	490.2	1029.8	0.50	1.325	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	741.2	188.5	247.7	447.4	507.2	503.1									
	COEFF.	0.403	-0.441	-0.350	-0.046	0.046	0.039									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	893.8	213.4	280.2	475.9	489.2	489.0									
	COEFF.	0.636	-0.403	-0.301	-0.002	0.018	0.018									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							324.4	312.8	305.9	289.3	278.9	292.1			
	COEFF.							-0.233	-0.251	-0.261	-0.287	-0.303	-0.283			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												268.6	272.4	279.9	
	COEFF.												-0.319	-0.313	-0.301	
	ORIFICE	220	221	222												
278.0	PRESSURE	909.5	223.9	294.9												
	COEFF.	0.659	-0.387	-0.278												
	ORIFICE				223	224	225									
277.0	PRESSURE				481.9	477.7	486.5									
	COEFF.				0.007	0.001	0.014									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													273.4	276.4	282.1
	COEFF.													-0.311	-0.307	-0.298
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	908.4	233.3	299.6	481.0	477.3	482.5									
	COEFF.	0.658	-0.372	-0.271	0.006	0.000	0.008									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	924.6	239.2	295.4	478.4	472.4	472.5									
	COEFF.	0.683	-0.363	-0.278	0.002	-0.008	-0.007									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	5	P436-03	TF-556	2/ 4/81	35: 3:14:53	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1520.0	477.3	655.3	3.121	100.6	560.3	35847.	490.2	1029.8	0.50	1.325	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV.	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	242.1			264.9										437.1
	COEFF.	-0.359			-0.324										-0.061
290.0	ORIFICE	232	233					234							
	PRESSURE	235.3	249.4					322.9							
	COEFF.	-0.369	-0.348					-0.236							
288.0	ORIFICE	253	254					255							
	PRESSURE	305.7	302.9					354.1							
	COEFF.	-0.262	-0.266					-0.188							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						353.8	357.7	364.6						
	COEFF.						-0.188	-0.182	-0.172						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		284.4					376.2	372.5	371.6	372.9				
	COEFF.		-0.294					-0.154	-0.160	-0.161	-0.159				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							402.3		405.9	404.0	384.6	383.[illegible]	374.6	
	COEFF.							-0.115		-0.199	-0.1[illegible]	-0.141	-0.143	-0.157	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			347.4	357.4	365.[illegible]						337.8	3[illegible]7.5	375.6	
	COEFF.			-0.198	-0.183	-0.1[illegible]						-0.13[illegible]	-0.152	-0.155	
268.0	ORIFICE	216	217					218							
	PRESSURE	237.2	336.0					385.5							
	COEFF.	-0.366	-0.216					-0.140							
260.0	ORIFICE	207			208										209
	PRESSURE	274.2			373.4										350.5
	COEFF.	-0.310			-0.158										-0.193

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	5	P436-03	TF-556	2/ 4/81	35: 3:14:53	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1520.0	477.3	655.3	3.121	100.6	560.3	35847.	490.2	1029.8	0.50	1.325	0.406

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			237.9			271.5	325.9		345.9		
	COEFFICIENT			-0.365			-0.314	-0.231		-0.201		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				228.4		308.2	388.9		407.3		
	COEFFICIENT				-0.380		-0.258	-0.135		-0.107		
277.5	ORIFICE							276		277		
	PRESSURE							471.9		454.3		
	COEFFICIENT							-0.008		-0.035		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		490.2		378.2
	COEFFICIENT						9.999	9.999		0.020		-0.151
260.0	ORIFICE	291B	292B									
	PRESSURE	581.9	578.2									
	COEFFICIENT	0.160	0.154									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	458.0	457.5
	COEFFICIENT	-0.029	-0.030

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.0	0.0	0.035	0.063	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.025	0.085	0.139	0.082	0.098
273.0	ORIFICE	401	402	403	404	
	VALUE	0.055	0.031	0.035	0.041	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	6	P436-03	TF-556	2/ 4/81	35: 3:15:23	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1519.5	477.0	655.1	3.119	100.7	560.4	35860.	489.9	1029.6	0.50	1.326	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	740.5	187.9	247.2	447.5	508.9	502.5									
	COEFF.	0.402	-0.441	-0.351	-0.045	0.049	0.039									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	894.0	212.9	279.9	475.7	489.2	488.5									
	COEFF.	0.636	-0.403	-0.301	-0.002	0.019	0.018									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							324.9	313.1	306.1	289.2	278.8	291.8			
	COEFF.							-0.232	-0.250	-0.261	-0.287	-0.303	-0.283			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												268.3	272.1	279.4	
	COEFF.												-0.319	-0.313	-0.302	
	ORIFICE	220	221	222												
278.0	PRESSURE	909.9	223.4	294.4												
	COEFF.	0.661	-0.387	-0.279												
	ORIFICE				223	224	225									
277.0	PRESSURE				481.8	477.6	486.4									
	COEFF.				0.007	0.001	0.014									
	ORIFICE												*291*	*292*	*293*	
275.0	PRESSURE												273.1	276.0	281.5	
	COEFF.												-0.311	-0.307	-0.298	
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	908.0	232.6	299.0	480.7	476.8	482.2									
	COEFF.	0.658	-0.373	-0.272	0.006	-0.000	0.008									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	924.0	238.5	294.3	471.5	471.6	472.2									
	COEFF.	0.682	-0.364	-0.279	-0.008	-0.008	-0.007									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
45	6	P436-03	TF-556	2/ 4/81	35: 3:15:23	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	TC	DP	WA	TPR	SHX10+3
1.401	1519.5	477.0	655.1	3.119	100.7	560.4	35860.	489.9	1029.6	0.50	1.326	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	241.3			264.5										437.0
	COEFF.	-0.360			-0.324										-0.061
290.0	ORIFICE	232	233					234							
	PRESSURE	234.9	248.9					322.5							
	COEFF.	-0.370	-0.348					-0.236							
288.0	ORIFICE	253	254					255							
	PRESSURE	305.1	302.6					353.4							
	COEFF.	-0.262	-0.266					-0.189							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						354.8	358.3	365.2						
	COEFF.						-0.187	-0.181	-0.171						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		283.8					375.9	372.7	371.7	372.0				
	COEFF.		-0.295					-0.154	-0.159	-0.161	-0.160				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							402.2		404.9	404.3	384.9	383.7	374.5	
	COEFF.							-0.114		-0.110	-0.111	-0.141	-0.142	-0.156	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			347.0	357.1	384.8						387.1	376.8	377.4	
	COEFF.			-0.198	-0.183	-0.141						-0.137	-0.153	-0.152	
268.0	ORIFICE	216	217					218							
	PRESSURE	236.5	335.7					385.2							
	COEFF.	-0.367	-0.216					-0.140							
260.0	ORIFICE	207			208										209
	PRESSURE	273.6			373.1										349.8
	COEFF.	-0.311			-0.159										-0.194

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	6	P43G-03	TF-556	2/ 4/81	35: 3:15:23	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1519.5	477.0	655.1	3.119	100.7	560.4	35860.	489.9	1029.6	0.50	1.326	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			237.3			270.7	325.8		345.6		
	COEFFICIENT			-0.366			-0.315	-0.231		-0.201		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				228.1		307.7	388.8		407.1		
	COEFFICIENT				-0.380		-0.258	-0.135		-0.107		
277.5	ORIFICE							276		277		
	PRESSURE							471.6		451.1		
	COEFFICIENT							-0.008		-0.040		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		489.7		378.2
	COEFFICIENT						9.999	9.999		0.019		-0.151
260.0	ORIFICE	291B	292B									
	PRESSURE	582.0	577.7									
	COEFFICIENT	0.160	0.154									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	457.7	457.6
	COEFFICIENT	-0.030	-0.030

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.0	0.0	0.036	0.063		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.025	0.086	0.139	0.081	0.036	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.055	0.032	0.035	0.041		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
45	7	P436-03	TF-556	2/ 4/81	35: 3:15:53	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	TC	DP	WA	TPR	SHX10+3
1.401	1520.2	477.3	655.4	3.120	100.8	560.5	35847.	490.2	1030.0	0.50	1.325	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	741.2	188.4	247.6	446.8	507.3	502.7									
	COEFF.	0.403	-0.441	-0.350	-0.047	0.046	0.039									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	894.1	213.4	280.3	475.9	489.1	488.4									
	COEFF.	0.636	-0.403	-0.301	-0.002	0.018	0.017									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							325.0	313.0	305.9	290.2	279.3	292.3			
	COEFF.							-0.232	-0.251	-0.261	-0.285	-0.302	-0.282			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												269.4	273.1	280.1	
	COEFF.												-0.317	-0.312	-0.301	
	ORIFICE	220	221	222												
278.0	PRESSURE	910.0	224.3	295.2												
	COEFF.	0.660	-0.386	-0.278												
	ORIFICE				223	224	225									
277.0	PRESSURE				482.1	477.6	486.7									
	COEFF.				0.007	0.000	0.014									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													273.6	276.2	281.9
	COEFF.													-0.311	-0.307	-0.298
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	908.7	233.3	299.5	481.2	477.3	481.8									
	COEFF.	0.658	-0.372	-0.271	0.006	-0.000	0.007									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	925.2	239.3	294.8	473.3	472.5	472.6									
	COEFF.	0.683	-0.363	-0.278	-0.006	-0.007	-0.007									

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	RN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	7	P43G-03	TF-556	2/ 4/81	35: 3:15:53	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1520.2	477.3	655.4	3.120	100.8	560.5	35847.	490.2	1030.0	0.50	1.325	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	241.6			265.0										437.0
	COEFF.	-0.360			-0.324										-0.061
290.0	ORIFICE	232	233					234							
	PRESSURE	234.9	248.9					322.5							
	COEFF.	-0.370	-0.348					-0.236							
288.0	ORIFICE	253	254					255							
	PRESSURE	305.8	303.1					354.4							
	COEFF.	-0.262	-0.266					-0.187							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						354.4	358.8	365.5						
	COEFF.						-0.187	-0.181	-0.171						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		284.2					376.3	373.2	371.6	371.4				
	COEFF.		-0.295					-0.154	-0.159	-0.161	-0.162				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							402.7		405.6	404.6	389.0	38[illegible].0	374.8	
	COEFF.							-0.114		-0.109	-0.1[illegible]	-0.141	-0.142	-0.156	
275.0	ORIFICE				*294*	*295*	*296*					*297*	*298*	*299*	
	PRESSURE				347.3	357.4	385.3					387.6	378.4	373.6	
	COEFF.				-0.198	-0.183	-0.140					-0.137	-0.151	-0.158	
268.0	ORIFICE	216	217					218							
	PRESSURE	236.8	336.0					385.8							
	COEFF.	-0.367	-0.216					-0.140							
260.0	ORIFICE	207			208										209
	PRESSURE	273.9			373.0										350.2
	COEFF.	-0.310			-0.159										-0.194

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SEI	CART	
45	7	P436-03	TF-556	2/ 4/81	35: 3:15:53	0-	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.401	1520.2	477.3	655.4	3.120	100.8	560.5	35847.	490.2	1030.0	0.50	1.325	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			237.9			271.5	326.1		346.2		
	COEFFICIENT			-0.365			-0.314	-0.231		-0.200		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				228.5		308.5	388.9		407.7		
	COEFFICIENT				-0.380		-0.257	-0.135		-0.106		
277.5	ORIFICE							276		277		
	PRESSURE							471.7		449.2		
	COEFFICIENT							-0.009		-0.043		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		490.8		378.4
	COEFFICIENT						9.999	9.999		0.021		-0.151
260.0	ORIFICE	291B	292B									
	PRESSURE	582.2	578.3									
	COEFFICIENT	0.160	0.154									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	458.4	458.1
	COEFFICIENT	-0.029	-0.029

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.0	0.0	0.035	0.063	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.025	0.085	0.139	0.081	0.098
273.0	ORIFICE	401	402	403	404	
	VALUE	0.055	0.032	0.035	0.041	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	8	P43G-03	TF-556	2/ 4/81	35: 3:16:23	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.403	1521.3	476.3	655.9	3.124	100.5	560.2	35890.	489.2	1032.1	0.50	1.324	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	740.5	188.1	247.1	445.7	506.5	502.0									
	COEFF.	0.403	-0.439	-0.349	-0.047	0.046	0.039									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	893.5	212.9	279.7	474.6	488.4	486.5									
	COEFF.	0.636	-0.402	-0.300	-0.003	0.018	0.016									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							324.5	312.4	304.9	289.4	278.3	291.1			
	COEFF.							-0.231	-0.250	-0.261	-0.285	-0.302	-0.282			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												268.2	272.1	278.9	
	COEFF.												-0.317	-0.311	-0.301	
	ORIFICE	220	221	222												
278.0	PRESSURE	909.6	223.4	294.6												
	COEFF.	0.661	-0.386	-0.277												
	ORIFICE				223	224	225									
277.0	PRESSURE				481.7	477.5	485.5									
	COEFF.				0.008	0.002	0.014									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													272.7	275.4	281.2
	COEFF.													-0.310	-0.306	-0.297
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	907.8	232.4	298.8	480.3	476.3	480.7									
	COEFF.	0.658	-0.372	-0.271	0.006	-0.000	0.007									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	924.3	238.7	294.5	476.1	471.9	471.8									
	COEFF.	0.683	-0.362	-0.277	-0.000	-0.007	-0.007									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
45	8	P436-03	TF-556	2/ 4/81	35: 3:16:23	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	C	DP	WA	TPR	SHX10+3
1.403	1521.3	476.3	655.9	3.124	100.5	560.2	35890.	489.2	1032.1	0.50	1.324	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	241.4			264.2										436.7
	COEFF.	-0.358			-0.323										-0.060
290.0	ORIFICE	232	233					234							
	PRESSURE	235.1	248.8					322.3							
	COEFF.	-0.368	-0.347					-0.235							
288.0	ORIFICE	253	254					255							
	PRESSURE	304.9	302.2					352.9							
	COEFF.	-0.261	-0.265					-0.188							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						353.7	358.0	364.5						
	COEFF.						-0.187	-0.180	-0.170						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		283.7					375.9	372.0	370.6	371.7				
	COEFF.		-0.294					-0.153	-0.159	-0.161	-0.159				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							401.3		404.4	404.1	384.2	383.2	374.4	
	COEFF.							-0.114		-0.110	-0.110	-0.140	-0.142	-0.155	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			346.4	356.5	382.8						386.6	377.0	376.9	
	COEFF.			-0.198	-0.183	-0.143						-0.137	-0.151	-0.152	
268.0	ORIFICE	216	217					218							
	PRESSURE	236.5	335.1					385.1							
	COEFF.	-0.366	-0.215					-0.139							
260.0	ORIFICE	207			208										209
	PRESSURE	273.4			372.8										350.1
	COEFF.	-0.309			-0.158										-0.192

DATE. 2-27-81 PROJECT NO. P430-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	8	P430-03	TF-556	2/ 4/81	35: 3:16:23	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.403	1521.3	476.3	655.9	3.124	100.5	560.2	35890.	489.2	1032.1	0.50	1.324	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			237.2			270.8	325.6		345.2		
	COEFFICIENT			-0.364			-0.313	-0.230		-0.200		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				227.8		307.6	388.4		407.2		
	COEFFICIENT				-0.379		-0.257	-0.134		-0.105		
277.5	ORIFICE							276		277		
	PRESSURE							470.6		446.4		
	COEFFICIENT							-0.009		-0.049		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		490.0		378.2
	COEFFICIENT						9.999	9.999		0.021		-0.149
260.0	ORIFICE	291B	292B									
	PRESSURE	581.8	578.0									
	COEFFICIENT	0.161	0.155									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE						261			262		
	PRESSURE						457.3			457.4		
	COEFFICIENT						-0.029			-0.028		

KULITE RMS VALUES

287.0	ORIFICE			410	411			412		413		
	VALUE			0.0	0.0			0.038		0.064		
278.0	ORIFICE			405	406			407		408	409	
	VALUE			0.025	0.086			0.138		0.050	0.098	
273.0	ORIFICE			401	402			403		404		
	VALUE			0.055	0.031			0.035		0.041		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	9	P436-03	TF-556	2/ 4/81	35: 3:16:52	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.400	1520.1	477.5	655.4	3.120	100.8	560.5	35838.	45.4	1029.7	0.50	1.324	0.406

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	741.1	188.9	247.8	447.2	507.9	503.2									
	COEFF.	0.402	-0.440	-0.351	-0.046	0.046	0.039									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	894.8	213.4	280.1	476.1	489.1	488.9									
	COEFF.	0.637	-0.403	-0.301	-0.002	0.018	0.017									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							324.4	312.6	305.7	289.7	278.6	291.8			
	COEFF.							-0.234	-0.252	-0.262	-0.287	-0.303	-0.283			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												268.1	272.0	278.8	
	COEFF.												-0.319	-0.314	-0.303	
	ORIFICE	220	221	222												
278.0	PRESSURE	910.7	223.7	295.1												
	COEFF.	0.661	-0.387	-0.278												
	ORIFICE				223	224	225									
277.0	PRESSURE				482.3	478.2	486.7									
	COEFF.				0.007	0.001	0.014									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													273.1	276.0	281.6
	COEFF.													-0.312	-0.307	-0.299
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	908.6	232.6	298.8	480.9	477.0	481.5									
	COEFF.	0.658	-0.374	-0.273	0.005	-0.001	0.006									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	925.5	239.4	295.2	478.3	472.6	472.6									
	COEFF.	0.684	-0.363	-0.278	0.001	-0.008	-0.008									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
45	9	P436-03	TF-556	2/ 4/81	35: 3:16:52	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.400	1520.1	477.5	655.4	3.120	100.8	560.5	35838.	490.4	1029.7	0.50	1.324	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	242.0			265.2										436.8
	COEFF.	-0.359			-0.324										-0.062
290.0	ORIFICE	232	233					234							
	PRESSURE	235.0	248.9					322.7							
	COEFF.	-0.370	-0.349					-0.236							
288.0	ORIFICE	253	254					255							
	PRESSURE	305.3	303.0					353.9							
	COEFF.	-0.263	-0.266					-0.189							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						354.2	358.6	365.2						
	COEFF.						-0.188	-0.181	-0.171						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		284.4					376.1	372.7	371.6	371.8				
	COEFF.		-0.295					-0.155	-0.160	-0.162	-0.161				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							401.6		404.8	404.2	384.8	383.4	374.3	
	COEFF.							-0.116		-0.111	-0.112	-0.141	-0.144	-0.157	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			347.0	357.1	384.6						386.5	376.9	374.5	
	COEFF.			-0.199	-0.184	-0.142						-0.139	-0.154	-0.157	
268.0	ORIFICE	216	217					218							
	PRESSURE	236.5	335.4					385.6							
	COEFF.	-0.368	-0.217					-0.140							
260.0	ORIFICE	207			208										209
	PRESSURE	273.8			373.1										350.5
	COEFF.	-0.311			-0.159										-0.194

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
45	9	P436-03	TF-556	2/ 4/81	35: 3:16:52	0.	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.400	1520.1	477.5	655.4	3.120	100.8	560.5	35838.	490.4	1029.7	0.50	1.324	0.408

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			237.4			270.9	325.6		345.9		
	COEFFICIENT			-0.366			-0.315	-0.232		-0.201		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				228.3		308.1	388.8		407.7		
	COEFFICIENT				-0.380		-0.258	-0.135		-0.107		
277.5	ORIFICE							276		277		
	PRESSURE							471.9		445.1		
	COEFFICIENT							-0.009		-0.049		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		490.5		378.4
	COEFFICIENT						9.999	9.999		0.020		-0.151
260.0	ORIFICE	291B	292B									
	PRESSURE	582.4	578.7									
	COEFFICIENT	0.160	0.154									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	458.2	457.9
	COEFFICIENT	-0.029	-0.030

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413		
	VALUE	0.0	0.0	0.035	0.064		
278.0	ORIFICE	405	406	407	408	409	
	VALUE	0.025	0.084	0.140	0.081	0.097	
273.0	ORIFICE	401	402	403	404		
	VALUE	0.055	0.031	0.035	0.041		

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
46	1	P43G-03	TF-556	2/ 4/81	35: 3:19:32	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.016	1029.5	534.0	385.6	2.117	96.5	556.2	33485.	543.6	485.9	0.50	1.238	0.538

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	628.1	418.2	438.4	504.3	514.5	490.6									
	COEFF.	0.244	-0.300	-0.248	-0.077	-0.051	-0.112									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	739.2	278.3	407.3	528.4	538.0	472.6									
	COEFF.	0.532	-0.663	-0.329	-0.015	0.010	-0.159									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							318.9	302.9	307.9	345.3	341.4	369.1			
	COEFF.							-0.558	-0.599	-0.586	-0.489	-0.500	-0.428			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												342.4	347.7	359.6	
	COEFF.												-0.497	-0.483	-0.452	
	ORIFICE	220	221	222												
278.0	PRESSURE	758.5	227.3	461.0												
	COEFF.	0.582	-0.796	-0.189												
	ORIFICE				223	224	225									
277.0	PRESSURE				520.8	527.6	490.7									
	COEFF.				-0.034	-0.016	-0.112									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													373.5	381.1	391.6
	COEFF.													-0.416	-0.397	-0.369
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	776.6	259.1	501.0	520.7	532.4	507.6									
	COEFF.	0.629	-0.713	-0.085	-0.034	-0.004	-0.068									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	790.2	304.4	501.1	521.7	529.4	520.3									
	COEFF.	0.665	-0.595	-0.085	-0.032	-0.012	-0.035									

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
46	1	P436-03	TF-556	2/ 4/81	35: 3:19:32	0	288	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	C	DP	WA	TPR	SHX10+3
1.016	1029.5	534.0	385.6	2.117	96.5	556.2	33485.	543.6	485.9	0.50	1.238	0.536

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C -	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	225.4			464.5										562.3
	COEFF.	-0.800			-0.180										0.073
290.0	ORIFICE	232	233					234							
	PRESSURE	287.8	389.9					523.9							
	COEFF.	-0.638	-0.374					-0.026							
288.0	ORIFICE	253	254					255							
	PRESSURE	303.0	408.9					519.6							
	COEFF.	-0.599	-0.324					-0.037							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						519.1	526.5	530.5						
	COEFF.						-0.039	-0.019	-0.009						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		408.9					530.1	534.9	535.6	533.3				
	COEFF.		-0.324					-0.010	0.002	0.004	-0.002				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							535.0		536.5	538.8	549.6	559.9	563.5	
	COEFF.							0.003		0.006	0.013	0.041	0.067	0.077	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			487.7	498.6	520.3						533.3	530.6	538.2	
	COEFF.			-0.120	-0.092	-0.035						-0.002	-0.009	0.011	
268.0	ORIFICE	216	217					218							
	PRESSURE	333.7	443.1					473.5							
	COEFF.	-0.519	-0.236					-0.157							
260.0	ORIFICE	207			208										209
	PRESSURE	380.1			473.5										467.3
	COEFF.	-0.399			-0.157										-0.173

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
46	1	P436-03	TF-556	2/ 4/81	35: 3:19:32	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
1.016	1029.5	534.0	385.6	2.117	96.5	556.2	33485.	543.6	485.9	0.50	1.238	0.538

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV	X/C =	0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			315.4			306.7	340.3		474.7		
	COEFFICIENT			-0.567			-0.589	-0.502		-0.154		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				310.2		433.6	516.0		499.1		
	COEFFICIENT				-0.580		-0.260	-0.047		-0.090		
277.5	ORIFICE							276		277		
	PRESSURE							534.8		441.6		
	COEFFICIENT							0.002		-0.240		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		508.3		517.8
	COEFFICIENT						9.999	9.999		-0.067		-0.042
260.0	ORIFICE	291B	292B									
	PRESSURE	604.1	589.2									
	COEFFICIENT	0.182	0.143									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	487.9	486.8
	COEFFICIENT	-0.119	-0.122

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.113	0.099	0.173	0.090	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.039	0.183	0.120	0.088	0.063
273.0	ORIFICE	401	402	403	404	
	VALUE	0.086	0.059	0.056	0.051	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880

DATE. 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
46	2	P436-03	TF-556	2/ 4/81	35: 3:19:40	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.976	995.8	540.7	360.7	2.031	95.4	555.1	33218.	550.0	445.8	0.50	1.230	0.556

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.00	0.03	0.06	0.15	0.30	0.52	0.61	0.63	0.65	0.68	0.70	0.72	0.74	0.76	0.77
	ORIFICE	236	237	238	239	240	241									
300.0	PRESSURE	625.9	441.1	458.7	522.4	511.2	489.5									
	COEFF.	0.236	-0.276	-0.227	-0.051	-0.082	-0.142									
	ORIFICE	226	227	228	229	230	231									
290.0	PRESSURE	724.1	340.5	427.7	527.7	537.0	472.9									
	COEFF.	0.508	-0.555	-0.313	-0.036	-0.010	-0.188									
	ORIFICE							*310*	*311*	*312*	*313*	*314*	*315*			
287.0	PRESSURE							335.7	321.2	329.7	381.1	378.1	402.5			
	COEFF.							-0.568	-0.609	-0.585	-0.442	-0.451	-0.383			
	ORIFICE												*301*	*302*	*303*	
282.0	PRESSURE												375.2	381.1	392.0	
	COEFF.												-0.459	-0.442	-0.412	
	ORIFICE	220	221	222												
278.0	PRESSURE	740.8	287.7	446.8												
	COEFF.	0.555	-0.701	-0.260												
	ORIFICE				223	224	225									
277.0	PRESSURE				532.1	533.5	489.1									
	COEFF.				-0.024	-0.020	-0.143									
	ORIFICE													*291*	*292*	*293*
275.0	PRESSURE													403.2	410.3	420.0
	COEFF.													-0.381	-0.361	-0.335
	ORIFICE	210	211	212	213	214	215									
268.0	PRESSURE	761.4	304.7	498.7	526.8	537.6	505.1									
	COEFF.	0.612	-0.654	-0.117	-0.038	-0.009	-0.099									
	ORIFICE	201	202	203	204	205	206									
260.0	PRESSURE	774.3	355.0	506.2	528.8	537.1	519.7									
	COEFF.	0.648	-0.515	-0.096	-0.033	-0.010	-0.058									

DATE. 2-27-81 PROJECT NO. P43G-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	
46	2	P43G-03	TF-556	2/ 4/81	35: 3:19:40	0	288	02-27-81	39/ 1	3	1.	TRANSONIC 16T

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.976	995.8	540.7	360.7	2.031	95.4	555.1	33218.	550.0	445.8	0.50	1.230	0.556

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (LEFT HAND SIDE)

ZV	X/C =	0.68	0.78	0.82	0.83	0.86	0.89	0.90	0.91	0.92	0.94	0.95	0.97	0.98	1.00
300.0	ORIFICE	242			243										244
	PRESSURE	256.9			500.5										575.4
	COEFF.	-0.787			-0.111										0.096
290.0	ORIFICE	232	233					234							
	PRESSURE	319.9	434.8					539.8							
	COEFF.	-0.612	-0.294					-0.003							
288.0	ORIFICE	253	254					255							
	PRESSURE	308.6	446.9					537.9							
	COEFF.	-0.643	-0.260					-0.008							
287.0	ORIFICE						*316*	*317*	*318*						
	PRESSURE						536.6	543.7	547.6						
	COEFF.						-0.012	0.008	0.019						
285.0	ORIFICE		251					252	*319*	*320*	*321*				
	PRESSURE		434.0					553.9	551.7	552.4	552.2				
	COEFF.		-0.296					0.036	0.031	0.032	0.032				
282.0	ORIFICE							*304*		*305*	*306*	*307*	*308*	*309*	
	PRESSURE							555.2		556.9	558.3	564.5	571.2	573.4	
	COEFF.							0.040		0.045	0.049	0.066	0.085	0.091	
275.0	ORIFICE			*294*	*295*	*296*						*297*	*298*	*299*	
	PRESSURE			517.9	528.6	547.0						548.3	544.8	549.1	
	COEFF.			-0.063	-0.034	0.017						0.021	0.011	0.023	
268.0	ORIFICE	216	217					218							
	PRESSURE	361.2	465.7					495.0							
	COEFF.	-0.498	-0.208					-0.127							
260.0	ORIFICE	207			208										209
	PRESSURE	392.2			491.7										484.8
	COEFF.	-0.412			-0.136										-0.155

DATE 2-27-81 PROJECT NO. P436-03
ARVIN/CALSPAN FIELD SERVICES, INC.
AEDC DIVISION
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

RN	PN	PROJECT	TEST	DATE	DAY HR MIN SEC	MODE	DELPI	PROD DATE	WINDOFF	SET	CART	TRANSONIC 16T
46	2	P436-03	TF-556	2/ 4/81	35: 3:19:40	3.	28R	02-27-81	39/ 1	3	1.	

M	PT	P	Q	REX10-6	TT	TTR	H	PC	DP	WA	TPR	SHX10+3
0.976	995.8	540.7	360.7	2.031	95.4	555.1	33218.	550.0	445.8	0.50	1.230	0.556

MODEL	TRAJECTORY	ALPHA	BETA	SPEED BRAKE
111-0	STS-1 BOOST	0.0	4.00	0.0

OUTSIDE PRESSURE ORIFICES (RIGHT HAND SIDE)

ZV		X/C = 0.15	0.26	0.68	0.70	0.77	0.78	0.83	0.85	0.90	0.94	1.00
282.0	ORIFICE			282			283	284		285		
	PRESSURE			342.7			344.3	375.3		506.8		
	COEFFICIENT			-0.549			-0.545	-0.458		-0.094		
280.0	ORIFICE				278		279	280		281		
	PRESSURE				337.4		457.7	537.7		521.2		
	COEFFICIENT				-0.564		-0.230	-0.008		-0.054		
277.5	ORIFICE							276		277		
	PRESSURE							545.0		444.6		
	COEFFICIENT							0.012		-0.267		
276.0	ORIFICE						271	272		273		274
	PRESSURE						0.0	0.0		515.8		534.3
	COEFFICIENT						9.999	9.999		-0.069		-0.018
260.0	ORIFICE	291R	292R									
	PRESSURE	605.3	591.1									
	COEFFICIENT	0.179	0.140									

INSIDE PRESSURE ORIFICES

276.0	ORIFICE	261	262
	PRESSURE	495.8	494.6
	COEFFICIENT	-0.124	-0.128

KULITE RMS VALUES

287.0	ORIFICE	410	411	412	413	
	VALUE	0.091	0.198	0.123	0.091	
278.0	ORIFICE	405	406	407	408	409
	VALUE	0.039	0.184	0.133	0.084	0.057
273.0	ORIFICE	401	402	403	404	
	VALUE	0.105	0.061	0.054	0.046	

ACCELEROMETER RMS VALUES

1	2	3
8.8880	8.8880	8.8880