FAA-RD-71-101,II

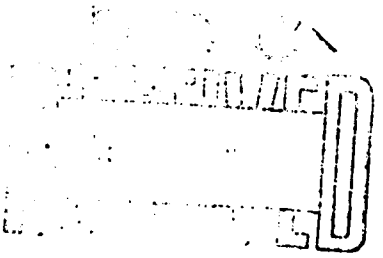
Best Available Copy

AD 748039

FAR FIELD NOISE GENERATION BY COAXIAL FLOW JET EXHAUSTS VOLUME II - COMPILATION OF TEST RESULTS

Kenneth M. Eldred, et al

WYLE LABORATORIES
128 Maryland Street
El Segundo, California 90245



NOVEMBER 1971

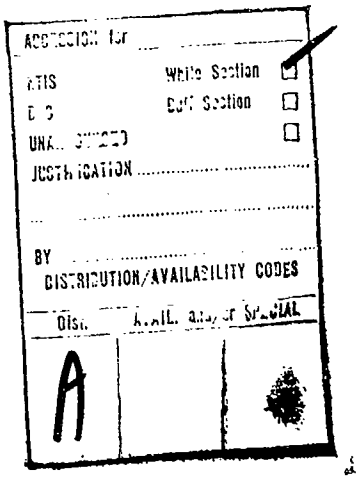
FINAL REPORT

Availability is unlimited. Document may be released to the National Technical Information Service, Springfield, Virginia 22151, for sale to the public.

Reproduced by
NATIONAL TECHNICAL
INFORMATION SERVICE
U S Department of Commerce
Springfield VA 22151

Prepared for

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
Systems Research & Development Service
Washington, D.C. 20591



The contents of this report reflect the views of Wyle Laboratories which is responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policy of the Department of Transportation. This report does not constitute a standard, specification, or regulation.

TECHNICAL REPORT STANDARD TITLE PAGE

1. Report No.	2. Government Accession No.	3. Recipient's Catalog No.
FAA-RD-71-101, II		

4. Title and Subtitle	5. Report Date
FAR FIELD NOISE GENERATION BY COAXIAL FLOW JET EXHAUSTS. VOLUME II – COMPILATION OF TEST RESULTS	November 1971
	6. Performing Organization Code
7. Author(s)	8. Performing Organization Report No.
Kenneth M. Eldred, et al	
9. Performing Organization Name and Address	10. Work Unit No.
Wyle Laboratories - Research Staff 128 Maryland Street El Segundo, California 90245	550-001-05H
	11. Contract or Grant No. DOT FA68WA-1889
12. Sponsoring Agency Name and Address	13. Type of Report and Period Covered
Federal Aviation Administration Systems Research and Development Service 800 Independence Avenue, S.W. Washington, D.C. 20590	FINAL REPORT March 1968 - November 1971
	14. Sponsoring Agency Code

15. Supplementary Notes

16. Abstract

Model scale air jets were used in an anechoic room to conduct a parametric study on the sound produced by coaxial circular jets. The following parameters were varied.

- Primary nozzle Mach numbers (from 0.85 to 1.47)
- Primary flow total temperature (60°F to 800°F)
- Ratio of secondary flow velocity to primary flow velocity (zero to sonic secondary velocity)
- Ratio of secondary nozzle area to primary nozzle area (zero to 10).
- Axial position of primary nozzle relative to secondary velocity (±11 primary nozzle diameters).

The results from these model tests were analyzed and scaled to give the overall sound power output, directivity indices and the sideline sound pressure spectra and perceived noise levels for engine thrusts ranging from 10,000 pounds to 80,000 pounds. The results were used to determine the reduction in overall sound power and maximum sideline perceived noise level as a function of the ratio of the secondary nozzle area to primary nozzle area and the ratio of secondary velocity to primary velocity. The maximum reduction was found to occur at a velocity ratio of approximately 0.5. The maximum reduction was 10 dB in overall power level and 11 PNdB in maximum perceived noise level on a 1500 foot sideline. These results were shown to be in accordance with a simple theoretical model of noise generation by coplanar coaxial jets. The noise reduction curves were also reinterpreted to indicate the flow characteristics required to produce an acoustically optimum, practical jet engine and to show the noise penalties that result due to deviations from this optimum configuration. Volume I is a detailed discussion and Volume II is a compilation of test results.

17. Key Words		18. Distribution Statement
Acoustics	Minimum Noise	Availability is unlimited. Document may be released to the National Technical Information Service, Springfield, Virginia 22151, for sale to the public.
Aircraft Noise	Noise Source Control	
Coaxial Jets	Noise Prediction	
Jet Noise		

19. Security Class. (of this report)	20. Security Classif. (of this page)	21. No. of Pages	22. Price
Unclassified	Unclassified	327	$6.00 PC .95 MF

Form DOT F 1700.7 (8-69)

I

INTRODUCTION

This is Volume II of a two-volume report on an empirically-derived noise prediction method for coaxial jets. Volume I contains a description of the experimental program, the resulting method for predicting the noise of full-scale coaxial flow jets in terms of maximum sideline perceived noise level (PNL), and a design guide for noise minimization at constant thrust. This volume contains a listing of the experimental runs that were made in the course of this project.

Table 1 shows the groups of experimental runs associated with the various flow conditions of the primary nozzles and the relative position of the primary and secondary nozzles. Half extended or retracted means the primary nozzle is displaced 5.5 primary nozzle diameters axially from the exit plane of the secondary nozzle. Fully retracted or extended refers to 11 diameters. Within each group of runs indicated in the table, there is an equal number of runs for each of the four secondary nozzles. For each secondary nozzle, the secondary flow velocity is varied between that required to give a velocity ratio (secondary to primary) of one-third, up to a sonic velocity. Intermediate velocity ratios of two-thirds and unity are interposed between these extremes if this does not require the secondary velocity to be supersonic.

Table 2 gives a detailed listing of the actual completed runs, giving the following data:

- Run Number (numbers in parentheses are reruns; asterisks indicate corrections were made to correct the high frequency data in the vicinity of 110 degrees for the third anomaly discussed in Section 4.2)
- Nozzle Position
- Nominal Area Ratio
- Primary Temperature
- Primary Pressure Ratio
- Primary Velocity
- Velocity Ratio (secondary/primary)
- Mass Flow Ratio (secondary/primary)

Appendix A contains the computer printouts for each experimental run which have been reduced to include, on a single page, the following information:

- Model Jet Run Conditions
- Model Jet Power Spectrum
- Full Scale Jet Overall Sound Power Levels
- Octave Band Sound Pressure Levels from the Model Jet
- 1500 Foot Sideline Perceived Noise Level and Octave Band Sound Pressure Levels for 20,000 Pounds Thrust Engine

It should be noted that the area ratios given on the computer printouts differ slightly from the nominal area ratios and from the effective area ratios given in Section 3.2.2 of Volume I. These area ratios should be interpreted as follows:

Computer Printout	Nominal Area Ratio
1.000	1
2.007	2
4.856	5
9.788	10

For additional details concerning the data displayed in this volume, see the appropriate sections in Volume I.

Table 1. Directory of Experimental Run Conditions

	Primary Nozzle Flow Temperature								
	60°F			450°F			800°F		
	Primary Pressure Ratio			Primary Pressure Ratio			Primary Pressure Ratio		
	1.6	2.5	3.5	1.6	2.5	3.5	1.6	2.5	3.5
Primary Nozzle Alone	101	118	131 600-606	144	157	166	175	188	197
Coplanar Nozzles	102-117	119-130	132-143	145-156	158-165	167-174	176-187	189-196	198-205
Fully Extended Primary	215-230	231-242	243-254	255-266	267-274	275-282	283-294 (1)	-	303-310 (1)
Fully Retracted Primary	311-326 (2)	327-338 (2)	339-350 (2)	-	-	-	-	-	-
Half Extended Primary	407-422	423-434	435-446	447-458	459-466	467-474	-	-	-
Half Retracted Primary	503-516	519-530	531-592	-	-	-	-	-	-

(1) Some runs not made in these groups (see Table 2 for details).

(2) Runs not made when secondary supply pressure greater than primary supply pressure. Primary plenum pressures for these runs were identical with those of all other runs; however, actual pressure ratios across primary exhausting into secondary were lower and are given in Table 2.

Table 2

Experimental Run Conditions

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ °F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
101	Primary Nozzle Alone	–	64	1.6	899	–	–
102	Coplanar	1	64	1.6	900	0.35	0.58
103	Coplanar	1	64	1.6	894	0.70	0.93
104	Coplanar	1	64	1.6	894	1.0	1.33
105	Omitted	–	–	–	–	–	–
106	Coplanar	2	64	1.6	891	0.35	1.10
107 (705)	Coplanar	2	64	1.6	893	0.70	1.99
108 (722)	Coplanar	2	64	1.6	892	1.0	2.61
109	Coplanar	2	64	1.6	893	1.15	3.25
110 (706)	Coplanar	5	64	1.6	892	0.35	1.63
111 (723)	Coplanar	5	64	1.6	892	0.70	3.79
112 (803)	Coplanar	5	64	1.6	894	1.0	5.50
113	Omitted	–	–	–	–	–	–
114 (708)	Coplanar	10	64	1.6	895	0.35	3.30
115 (804)	Coplanar	10	64	1.6	899	0.70	7.15
116	Coplanar	10	64	1.6	878	1.0	11.03
117 (726)	Coplanar	10	64	1.6	881	1.16	14.28
118	Primary Nozzle Alone	–	64	2.5	1204	–	–
119 (709)	Coplanar	1	64	2.5	1199	0.38	0.46
120 (710)	Coplanar	1	64	2.5	1199	0.73	0.79
*121 (713)	Coplanar	1	64	2.5	1207	0.84	1.04
*122 (714)	Coplanar	2	64	2.5	1195	0.38	0.92
*123	Coplanar	2	64	2.5	1193	0.73	1.61
*124 (715)	Coplanar	2	64	2.5	1193	0.86	2.03

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp.~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*125 (717)	Coplanar	5	64	2.5	1182	0.38	1.67
*126	Coplanar	5	64	2.5	1177	0.73	3.34
127 (719)	Coplanar	5	64	2.5	1177	0.86	4.14
*128	Coplanar	10	64	2.5	1184	0.38	3.18
*129	Coplanar	10	64	2.5	1194	0.73	6.69
*130	Coplanar	10	64	2.5	1195	0.87	8.38
*131	Primary Nozzle Alone	–	64	3.5	1380	–	–
*132	Coplanar	1	64	3.5	1374	0.35	0.38
*133	Omitted	–	–	–	–	–	–
*134	Coplanar	1	64	3.5	1382	0.74	0.76
*135 (720)	Coplanar	2	64	3.5	1370	0.35	0.68
*136 (809)	Coplanar	2	64	3.5	1368	0.67	1.31
*137	Coplanar	2	64	3.5	1374	0.74	1.48
*138	Coplanar	5	64	3.5	1376	0.35	1.40
*139	Coplanar	5	64	3.5	1376	0.67	2.96
*140	Coplanar	5	64	3.5	1367	0.75	3.36
*141 (721)	Coplanar	10	64	3.5	1387	0.35	2.64
*142	Coplanar	10	64	3.5	1383	0.67	5.88
*143	Coplanar	10	64	3.5	1387	0.75	6.67
144	Primary Nozzle Alone	–	450	1.6	1176	–	–
145	Coplanar	1	450	1.6	1176	0.38	0.78
146	Coplanar	1	450	1.6	1176	0.73	1.43
147	Coplanar	1	450	1.6	1176	0.88	1.89
148	Coplanar	2	450	1.6	1176	0.38	1.38

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
149	Coplanar	2	450	1.6	1176	0.72	3.05
150 (811)	Coplanar	2	450	1.6	1176	0.87	4.09
151	Coplanar	5	450	1.6	1176	0.38	3.29
152	Coplanar	5	450	1.6	1176	0.72	6.65
153	Coplanar	5	450	1.6	1176	0.87	9.04
154 (727)	Coplanar	10	450	1.6	1176	0.38	6.02
155	Coplanar	10	450	1.6	1176	0.73	13.38
156 (729)	Coplanar	10	450	1.6	1176	0.88	18.38
*157	Primary Nozzle Alone	–	450	2.5	1590	–	–
*158	Coplanar	1	450	2.5	1590	0.41	0.68
*159	Coplanar	1	450	2.5	1590	0.66	1.18
*160	Coplanar	2	450	2.5	1590	0.40	1.48
161	Omitted	–	–	–	–	–	–
*162	Coplanar	5	450	2.5	1590	0.41	3.07
163	Coplanar	5	450	2.5	1590	0.65	5.10
*164 (812)	Coplanar	10	450	2.5	1590	0.40	5.42
165	Coplanar	10	450	2.5	1590	0.66	10.22
*166	Primary Nozzle Alone	–	450	3.5	1817	–	–
*167 (732)	Coplanar	1	450	3.5	1817	0.57	1.02
168	Omitted	–	–	–	–	–	–
*169	Coplanar	2	450	3.5	1817	0.42	1.38
*170 (734)	Coplanar	2	450	3.5	1817	0.57	1.96
*171	Coplanar	5	450	3.5	1817	0.42	3.00
*172 (736)	Coplanar	5	450	3.5	1817	0.58	4.15

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp.~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*173	Coplanar	10	450	3.5	1817	0.42	5.42
*174	Coplanar	10	450	3.5	1817	0.58	8.45
175	Primary Nozzle Alone	–	800	1.6	1401	–	–
176	Coplanar	1	800	1.6	1401	0.37	1.01
177	Coplanar	1	800	1.6	1362	0.71	1.80
178	Coplanar	1	800	1.6	1362	0.78	2.03
179	Coplanar	2	800	1.6	1364	0.37	2.07
180 (737)	Coplanar	2	800	1.6	1359	0.69	3.62
181	Coplanar	2	800	1.6	1361	0.77	4.53
182	Coplanar	5	800	1.6	1369	0.36	3.83
183 (738)	Coplanar	5	800	1.6	1362	0.69	8.48
184 (739)	Coplanar	5	800	1.6	1366	0.77	9.84
185 (815)	Coplanar	10	800	1.6	1366	0.36	7.67
186	Coplanar	10	800	1.6	1359	0.69	17.68
187	Coplanar	10	800	1.6	1359	0.77	21.85
*188 (816)	Primary Nozzle Alone	–	800	2.5	1864	–	–
*189	Coplanar	1	800	2.5	1853	0.39	0.78
*190	Coplanar	1	800	2.5	1856	0.58	1.38
191	Coplanar	2	800	2.5	1855	0.38	1.84
192 (817)	Coplanar	2	800	2.5	1856	0.57	2.65
*193	Coplanar	5	800	2.5	1854	0.38	3.79
194 (741)	Coplanar	5	800	2.5	1853	0.56	5.98
195	Omitted	–	–	--	–	–	–
196	Coplanar	10	800	2.5	1862	0.56	12.00

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*197	Primary Nozzle Alone	–	800	3.5	2169	–	–
*198	Coplanar	1	800	3.5	2183	0.38	0.84
*199	Coplanar	1	800	3.5	2178	0.49	1.08
*200	Coplanar	2	800	3.5	2179	0.38	1.74
201	Coplanar	2	800	3.5	2183	0.48	2.27
*202 (744)	Coplanar	5	800	3.5	2183	0.38	3.84
203	Omitted	–	–	–	–	–	–
*204	Coplanar	10	800	3.5	2180	0.38	7.29
205	Coplanar	10	800	3.5	2184	0.48	10.08
206 -214	Omitted	–	–	–	–	–	–
215	Fully Extended Primary	1	66	1.6	898	0.35	0.32
216	Fully Extended Primary	1	66	1.6	896	0.70	0.82
217	Fully Extended Primary	1	66	1.6	900	0.99	1.21
218	Fully Extended Primary	1	66	1.6	898	1.14	1.49
219	Fully Extended Primary	2	66	1.6	892	0.35	0.60
220	Fully Extended Primary	2	66	1.6	892	0.70	1.34
221	Fully Extended Primary	2	66	1.6	895	1.0	2.79
222	Fully Extended Primary	2	66	1.6	895	1.14	3.36
223 (745)	Fully Extended Primary	5	66	1.6	894	0.34	1.60

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ °F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
224	Omitted	–	–	–	–	–	–
225	Fully Extended Primary	5	66	1.6	895	0.99	6.09
226	Fully Extended Primary	5	66	1.6	900	1.15	7.01
227	Fully Extended Primary	10	66	1.6	887	0.35	3.20
228	Fully Extended Primary	10	66	1.6	895	0.70	6.65
229	Fully Extended Primary	10	66	1.6	898	1.0	10.58
230	Fully Extended Primary	10	66	1.6	898	1.16	12.44
*231	Fully Extended Primary	1	66	2.5	1210	0.38	0.32
*232	Fully Extended Primary	1	66	2.5	1221	0.71	0.68
*233	Fully Extended Primary	1	66	2.5	1220	0.84	0.88
*234	Fully Extended Primary	2	66	2.5	1209	0.38	0.58
*235	Fully Extended Primary	2	66	2.5	1217	0.72	1.26
*236	Fully Extended Primary	2	66	2.5	1204	0.85	1.54
*237	Fully Extended Primary	5	66	2.5	1200	0.38	1.60
*238	Fully Extended Primary	5	66	2.5	1187	0.73	3.24
*239	Omitted	–	–	–	–	–	–
*240	Fully Extended Primary	10	66	2.5	1208	0.38	2.44

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*241	Fully Extended Primary	10	66	2.5	1208	0.72	5.31
242	Omitted	–	–	–	–	–	–
*243	Fully Extended Primary	1	66	3.5	1378	0.36	0.27
*244	Fully Extended Primary	1	66	3.5	1383	0.67	0.59
*245	Fully Extended Primary	1	66	3.5	1384	0.74	0.70
*246	Fully Extended Primary	2	66	3.5	1367	0.36	0.51
*247	Fully Extended Primary	2	66	3.5	1374	0.68	1.05
*248	Fully Extended Primary	2	66	3.5	1380	0.74	1.29
*249	Fully Extended Primary	5	66	3.5	1374	0.35	1.30
*250 (747)	Fully Extended Primary	5	66	3.5	1370	0.68	2.81
*251	Fully Extended Primary	5	66	3.5	1378	0.76	3.23
*252	Fully Extended Primary	10	66	3.5	1388	0.36	2.47
*253	Fully Extended Primary	10	66	3.5	1388	0.68	5.46
*254	Fully Extended Primary	10	66	3.5	1387	0.75	6.31
255	Fully Extended Primary	1	450	1.6	1177	0.39	0.50
256	Fully Extended Primary	1	450	1.6	1184	0.73	1.77

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~ °F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
257	Fully Extended Primary	1	450	1.6	1183	0.88	1.56
258	Fully Extended Primary	2	450	1.6	1187	0.39	1.04
259	Fully Extended Primary	2	450	1.6	1187	0.73	2.34
260	Fully Extended Primary	2	450	1.6	1184	0.88	3.02
261	Fully Extended Primary	5	450	1.6	1185	0.38	2.85
262	Omitted	–	–	–	–	–	–
263	Fully Extended Primary	5	450	1.6	1183	0.88	7.96
264	Fully Extended Primary	10	450	1.6	1186	0.38	5.44
265 (750)	Fully Extended Primary	10	450	1.6	1185	0.72	11.66
266	Fully Extended Primary	10	450	1.6	1186	0.88	16.15
*267	Fully Extended Primary	1	450	2.5	1605	0.41	0.54
*268	Fully Extended Primary	1	450	2.5	1594	0.66	1.15
*269	Fully Extended Primary	2	450	2.5	1604	0.40	0.95
*270	Omitted	–	–	–	–	–	–
*271	Fully Extended Primary	5	450	2.5	1601	0.40	2.62
*272	Fully Extended Primary	5	450	2.5	1605	0.65	4.88
*273	Fully Extended Primary	10	450	2.5	1603	0.40	5.07

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*274	Fully Extended Primary	10	450	2.5	1604	0.65	9.62
*275 (751)	Fully Extended Primary	1	450	3.5	1802	0.42	0.64
*276	Fully Extended Primary	1	450	3.5	1800	0.58	0.98
*277	Fully Extended Primary	2	450	3.5	1800	0.42	0.72
*278 (752)	Fully Extended Primary	2	450	3.5	1800	0.58	1.07
*279	Fully Extended Primary	5	450	3.5	1798	0.42	1.52
*280	Fully Extended Primary	5	450	3.5	1800	0.58	2.19
*281	Fully Extended Primary	10	450	3.5	1803	0.42	5.17
*282	Fully Extended Primary	10	450	3.5	1802	0.58	7.96
283 - 284	Omitted	–	–	–	–	–	–
285	Fully Extended Primary	1	800	1.6	1372	0.78	1.74
286	Fully Extended Primary	2	800	1.6	1374	0.37	1.33
287 (754)	Fully Extended Primary	2	800	1.6	1376	0.69	2.92
288	Fully Extended Primary	2	800	1.6	1379	0.76	3.58
289	Fully Extended Primary	5	800	1.6	1377	0.36	3.57
290	Fully Extended Primary	5	800	1.6	1374	0.69	7.63

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
291	Fully Extended Primary	5	800	1.6	1374	0.76	8.82
292 - 302	Omitted	–	–	–	–	–	–
*303 (753)	Fully Extended Primary	1	800	3.5	2182	0.39	0.62
*304	Fully Extended Primary	1	800	3.5	2185	0.49	0.96
305 - 310	Omitted	–	–	–	–	–	–
311	Fully Retracted Primary	1	74	1.52	846	0.37	0.71
312	Fully Retracted Primary	1	74	1.29	664	0.94	1.80
313 - 314	Omitted	–	–	–	–	–	–
315	Fully Retracted Primary	2	74	1.52	845	0.37	0.99
316	Fully Retracted Primary	2	74	1.29	663	0.94	2.15
317 - 319	Omitted	–	–	–	–	–	–
320	Fully Retracted Primary	5	74	1.29	664	0.94	4.34
321 - 322	Omitted	–	–	–	–	–	–
323	Fully Retracted Primary	10	74	1.52	853	0.37	3.63
324	Fully Retracted Primary	10	74	1.29	669	0.94	7.70
325 - 327	Omitted	–	–	–	–	–	–
328 (832)	Fully Retracted Primary	1	74	1.61	896	0.96	1.16
329 (762)	Fully Retracted Primary	1	74	1.32	700	1.47	1.68

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
330	Fully Retracted Primary	2	74	2.23	1146	0.40	0.76
331	Fully Retracted Primary	2	74	1.61	906	0.96	1.66
332	Fully Retracted Primary	2	74	1.32	702	1.47	2.49
333	Fully Retracted Primary	5	74	2.23	1141	0.40	1.79
334	Fully Retracted Primary	5	74	1.56	872	1.03	3.68
335	Fully Retracted Primary	5	74	1.32	705	1.47	4.98
336	Fully Retracted Primary	10	74	2.23	1148	0.40	3.20
337	Fully Retracted Primary	10	74	1.61	904	0.96	6.34
338	Fully Retracted Primary	10	74	1.32	705	1.47	8.85
339	Fully Retracted Primary	1	74	3.06	1330	0.37	0.46
340	Fully Retracted Primary	1	74	2.09	1114	0.84	0.89
341 (763)	Fully Retracted Primary	1	74	1.85	1025	1.01	1.12
342	Fully Retracted Primary	2	74	3.06	1331	0.37	0.74
343	Fully Retracted Primary	2	74	2.09	1114	0.84	1.43
344	Fully Retracted Primary	2	74	1.85	1024	1.01	1.68
345	Fully Retracted Primary	5	74	3.06	1331	0.37	1.62

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
346	Fully Retracted Primary	5	74	2.09	1109	0.85	3.09
347 (764)	Fully Retracted Primary	5	74	1.85	1024	1.01	3.57
348	Fully Retracted Primary	10	74	3.06	1335	0.37	2.88
349	Fully Retracted Primary	10	74	2.09	1115	0.85	6.05
350	Fully Retracted Primary	10	74	1.85	1023	1.02	6.69
351 - 407	Omitted	–	–	–	–	–	–
408 (823)	Half Extended Primary	1	60	1.6	896	0.70	0.63
409	Half Extended Primary	1	60	1.6	894	1.0	1.04
410	Half Extended Primary	1	60	1.6	895	1.15	1.28
411	Half Extended Primary	2	60	1.6	894	0.35	0.55
412	Half Extended Primary	2	60	1.6	896	0.70	1.27
413	Half Extended Primary	2	60	1.6	897	1.0	2.12
414 (756)	Half Extended Primary	2	60	1.6	895	1.15	2.59
415	Half Extended Primary	5	60	1.6	886	0.35	1.54
416	Half Extended Primary	5	60	1.6	883	0.70	3.28
417 (824)	Half Extended Primary	5	60	1.6	887	1.01	5.14

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
418	Half Extended Primary	5	60	1.6	887	1.16	5.98
419	Half Extended Primary	10	60	1.6	887	0.35	2.94
420	Half Extended Primary	10	60	1.6	887	0.70	6.12
421	Half Extended Primary	10	60	1.6	894	1.01	9.75
422	Half Extended Primary	10	60	1.6	892	1.16	11.90
*423	Half Extended Primary	1	60	2.5	1198	0.38	0.26
*424	Half Extended Primary	1	60	2.5	1198	0.72	0.60
*425	Half Extended Primary	1	60	2.5	1202	0.85	0.75
*426	Half Extended Primary	2	60	2.5	1202	0.38	0.56
*427	Half Extended Primary	2	60	2.5	1202	0.72	1.21
*428	Omitted	–	–	–	–	–	–
*429 (757)	Half Extended Primary	5	60	2.5	1202	0.38	1.43
*430	Half Extended Primary	5	60	2.5	1205	0.72	3.02
*431	Half Extended Primary	5	60	2.5	1211	0.85	3.85
*432	Half Extended Primary	10	60	2.5	1210	0.38	2.79
*433	Half Extended Primary	10	60	2.5	1205	0.72	5.94

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
434	Half Extended Primary	10	60	2.5	1208	0.86	7.48
*435	Half Extended Primary	1	60	3.5	1356	0.36	0.24
*436	Half Extended Primary	1	60	3.5	1360	0.68	0.54
*437	Half Extended Primary	1	60	3.5	1363	0.75	0.62
*438	Half Extended Primary	2	60	3.5	1366	0.36	0.48
*439	Half Extended Primary	2	60	3.5	1366	0.68	1.12
*440	Half Extended Primary	2	60	3.5	1367	0.75	1.29
*441	Half Extended Primary	5	60	3.5	1370	0.36	1.22
*442	Half Extended Primary	5	60	3.5	1374	0.68	2.73
*443	Half Extended Primary	5	60	3.5	1380	0.75	3.14
*444	Half Extended Primary	10	60	3.5	1376	0.36	2.44
*445	Half Extended Primary	10	60	3.5	1378	0.68	5.27
*446	Half Extended Primary	10	60	3.5	1380	0.75	6.08
447	Half Extended Primary	1	460	1.6	1189	0.38	0.52
448	Half Extended Primary	1	460	1.6	1189	0.73	1.14
449	Half Extended Primary		460	1.6	1185	0.88	1.63

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
450	Half Extended Primary	2	460	1.6	1187	0.38	0.99
451	Half Extended Primary	2	460	1.6	1185	0.72	2.42
452	Half Extended Primary	2	460	1.6	1188	0.87	3.14
453	Half Extended Primary	5	460	1.6	1187	0.38	2.64
454 (759)	Half Extended Primary	5	460	1.6	1186	0.73	5.81
455	Half Extended Primary	5	460	1.6	1186	0.88	7.63
456	Half Extended Primary	10	460	1.6	1183	0.38	5.38
457	Half Extended Primary	10	460	1.6	1186	0.73	11.52
458	Half Extended Primary	10	460	1.6	1186	0.88	15.09
*459	Half Extended Primary	1	460	2.5	1601	0.40	0.52
*460	Half Extended Primary	1	460	2.5	1597	0.65	0.97
*461	Half Extended Primary	2	460	2.5	1601	0.40	1.00
*462 (826)	Half Extended Primary	2	460	2.5	1596	0.65	1.09
*463	Half Extended Primary	5	460	2.5	1600	0.40	2.68
*464	Half Extended Primary	5	460	2.5	1599	0.65	4.96
*465	Half Extended Primary	10	460	2.5	1601	0.40	5.18

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*466	Half Extended Primary	10	460	2.5	1601	0.65	9.67
*467	Half Extended Primary	1	460	3.5	1829	0.42	0.52
*468	Half Extended Primary	1	460	3.5	1824	0.57	0.76
*469	Half Extended Primary	2	460	3.5	1827	0.42	0.94
*470	Half Extended Primary	2	460	3.5	1828	0.58	1.52
*471	Half Extended Primary	5	460	3.5	1828	0.42	2.66
*472	Half Extended Primary	5	460	3.5	1825	0.58	3.86
*473	Half Extended Primary	10	460	3.5	1828	0.42	4.83
*474	Half Extended Primary	10		3.5	1828	0.58	7.76
475-503	Omitted	–	–	–	–	–	–
504	Half Retracted Primary	1	70	1.29	666	0.94	1.59
505 (765)	Half Retracted Primary	2	70	1.52	847	0.37	1.04
506 (766)	Half Retracted Primary	2	70	1.29	663	0.94	2.24
507-510	Omitted	–	–	–	–	–	–
511	Half Retracted Primary	5	70	1.52	843	0.37	2.05
512	Half Retracted Primary	5	70	1.29	661	0.94	4.42
513-514	Omitted	–	–	–	–	–	–

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
515	Half Retracted Primary	10	70	1.52	843	0.37	3.52
516	Half Retracted Primary	10	70	1.29	667	0.94	7.68
517-518	Omitted	–	–	–	–	–	–
519	Half Retracted Primary	1	70	2.23	1149	0.40	0.69
*520	Half Retracted Primary	1	70	1.61	903	0.97	1.33
*521	Half Retracted Primary	1	70	1.32	702	1.47	1.92
522	Half Retracted Primary	2	70	2.23	1144	0.40	1.01
523	Half Retracted Primary	2	70	1.61	894	0.97	1.92
*524	Half Retracted Primary	2	70	1.32	698	1.47	2.78
*525	Half Retracted Primary	5	70	2.23	1138	0.40	1.95
526	Half Retracted Primary	5	70	1.61	895	0.97	3.90
*527	Half Retracted Primary	5	70	1.32	699	1.48	5.29
528	Half Retracted Primary	10	70	2.23	1144	0.40	3.19
529	Half Retracted Primary	10	70	1.61	898	0.97	6.03
530	Half Retracted Primary	10	70	1.32	702	1.45	9.16
*531	Half Retracted Primary	1	70	3.06	1314	0.37	0.62

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*532	Half Retracted Primary	1	70	2.09	1095	0.85	1.10
*533 (767)	Half Retracted Primary	1	70	1.85	1012	1.02	1.27
*534	Half Retracted Primary	2	70	3.06	1320	0.37	0.88
*535	Half Retracted Primary	2	70	2.09	1100	0.85	1.58
*536	Half Retracted Primary	2	70	1.85	1020	1.02	1.88
*537	Half Retracted Primary	5	70	3.06	1331	0.37	1.63
538	Omitted	–	–	–	–	–	–
*539	Half Retracted Primary	5	70	1.85	1023	1.02	3.67
*540	Half Retracted Primary	10	70	3.06	1332	0.37	2.82
541	Half Retracted Primary	10	70	2.09	1108	0.85	5.84
542	Half Retracted Primary	10	70	1.85	1020	1.02	6.72
543 - 599	Omitted	–	–	–	–	–	–
600	Primary Nozzle Alone	–	74	2.0	1076	–	–
601	Primary Nozzle Alone	–	74	2.5	1221	–	–
*602	Primary Nozzle Alone	–	74	3.0	1318	–	–
*603	Primary Nozzle Alone	–	74	3.5	1392	–	–

Table 2 (Continued)

Run Number	Nozzle Position	Nom. Area Ratio	Primary Temp. ~°F Average	Primary Pressure Ratio	Primary Velocity Ft/Sec	Velocity Ratio	Mass Flow Ratio
*604 (836)	Primary Nozzle Alone	–	74	4.0	1450	–	–
*605	Primary Nozzle Alone	–	74	5.4	1570	–	–
*606	Primary Nozzle Alone	–	74	7.8	1688	–	–

APPENDIX A

DETAILED DATA FOR EXPERIMENTAL RUNS

RUN NUMBER	=	181.004
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	=	NOZE
PRIMARY TEMPERATURE (R)	=	530.000
SECONDARY TEMPERATURE (R)	=	NONE
PRIMARY PRESSURE RATIO	=	1.600
AREA RATIO	=	NONE
VELOCITY RATIO	=	NONE
PRIMARY VELOCITY (FT/SEC)	=	899.393
MASS FLOW RATIO	=	NONE
PRIMARY MASS FLOW (LB/SEC)	=	.220
THRUST (LBS)	=	6.144
ENVIRONMENTAL TEMPERATURE (R)	=	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.810
ENVIRONMENTAL HUMIDITY (PER CENT)	=	72.000
CALIBRATION FACTOR (MV TO 59755 CW)	=	.007
INSTRUMENTATION NOISE FLOOR (DB)	=	46.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	9.22692E-02	119.7
500	5.50567E-04	97.4
1000	3.53659E-03	105.5
2000	1.78068E-02	112.5
4000	2.48826E-02	114.0
8000	2.45427E-02	113.9
16000	1.45212E-02	111.6
31500	6.41953E-03	108.1

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	151.8
20000	154.8
40000	157.8
80000	160.8

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	78.2	84.8	91.3	90.0	85.3	79.9	74.6	95.8
20.0	75.8	84.3	91.4	90.6	86.6	81.1	76.3	95.6
25.0	74.2	83.3	90.7	91.2	87.9	82.4	76.9	95.5
30.0	72.9	81.6	89.0	90.2	88.2	83.6	78.5	94.7
35.0	71.6	80.1	87.3	89.0	88.5	84.7	79.6	94.1
40.0	69.7	77.7	85.3	87.7	88.1	85.0	81.3	93.2
45.0	69.6	76.0	83.7	86.1	87.2	85.1	81.1	92.2
50.0	66.8	74.6	82.0	84.8	86.3	84.4	80.9	91.2
55.0	66.0	73.3	80.8	83.8	85.4	84.0	80.7	90.4
60.0	66.0	73.4	79.8	82.8	84.3	82.9	79.4	89.3
65.0	65.0	72.6	79.1	82.3	84.0	82.7	79.5	89.0
70.0	65.6	72.1	78.4	81.8	83.3	82.2	79.2	88.5
75.0	64.6	71.9	78.0	81.1	82.8	81.6	78.5	87.9
80.0	64.8	70.9	77.3	80.4	82.1	80.9	78.0	87.2
85.0	63.5	71.2	77.1	80.1	81.6	80.4	77.4	86.8
90.0	64.6	70.4	76.4	79.8	81.4	80.4	77.5	86.6
95.0	63.7	70.3	76.1	79.4	81.1	79.9	76.7	86.1
100.0	62.6	69.8	75.7	78.7	80.5	79.2	76.3	85.6
105.0	62.6	69.6	75.4	78.6	80.3	79.3	76.6	85.5
110.0	61.6	69.1	75.4	78.6	79.6	78.4	75.9	84.9
115.0	61.4	68.5	74.9	78.0	79.6	78.2	75.8	84.7

MODEL THRUST = 6.144 FULL SCALE THRUST = 20000.000

L=	PNOR.	OASPL	8.8	OCTAVE 17.5	BAND 35.1	SOUND 70.1	PRESSURE 140.2	LEVELS 280.4	552.1	1104.2	2190.9	4381.9	8761.8
5795.8	69.8	68.5	74.3	66.67	65.23	71.66	70.28	65.37	59.02	51.61	43.15	28.82	-.08	-48.81
4385.7	74.3	72.7	78.1	68.41	67.17	76.19	73.40	69.15	63.04	56.66	49.47	37.29	15.18	-23.67
3549.1	77.8	75.8	79.1	68.91	69.02	75.17	75.78	72.30	66.17	59.54	53.26	42.17	24.60	-7.22
3008.8	80.0	77.7	80.7	69.61	67.77	75.12	76.25	74.18	69.16	62.87	57.06	47.77	31.77	4.58
2615.2	81.8	79.2	81.2	68.74	67.63	76.63	76.26	75.68	71.40	65.46	59.98	51.60	37.18	13.89
2333.4	83.0	80.2	81.3	68.62	66.02	77.44	75.94	76.32	72.98	67.22	62.62	54.14	41.03	19.21
2121.3	84.0	80.6	81.2	67.77	66.16	72.82	75.18	76.18	73.83	69.03	64.03	56.66	44.41	24.30
1958.1	84.2	80.6	80.9	66.70	64.65	71.86	74.58	74.97	73.89	69.64	64.79	57.76	46.22	27.63
1831.2	84.4	80.6	80.8	66.60	63.73	71.19	74.22	75.71	74.81	70.08	65.13	58.50	47.57	29.81
1732.1	83.9	79.9	80.0	66.18	63.32	70.75	73.69	75.09	73.40	69.24	64.03	58.01	47.51	30.44
1656.1	83.1	79.1	80.1	66.39	63.05	70.69	73.57	75.15	73.52	69.87	64.11	58.45	48.68	32.33
1598.1	82.1	78.1	80.1	67..	63.71	70.01	73.36	74.83	73.69	69.84	65.38	59.04	49.13	33.25
1552.9	81.2	77.2	79.2	66.67	63.79	69.84	72.96	74.56	73.16	69.44	64.87	58.73	49.08	33.48
1523.1	80.3	76.3	78.2	66.84	62.90	69.31	72.68	74.06	72.68	69.18	64.75	58.56	48.96	33.68
1508.7	79.8	75.8	78.0	66.60	63.17	69.18	72.20	73.82	72.22	68.69	64.27	58.12	48.68	33.66
1500.0	79.4	75.4	78.7	66.41	62.85	68.62	71.93	73.46	72.21	68.79	64.18	58.24	48.74	33.65
1505.7	79.1	75.1	78.3	65.58	62.52	68.28	71.69	73.18	71.53	67.98	63.54	57.39	47.87	32.73
1523.1	81.4	77.3	77.8	64.61	61.81	67.69	70.73	72.47	70.81	67.47	63.01	56.84	47.25	31.97
1552.9	81.3	77.0	77.6	64.21	61.63	67.37	70.68	72.03	70.41	67.52	63.05	56.80	47.08	31.65
1598.1	80.2	75.9	76.5	63.25	60.76	67.44	69.57	71.08	69.69	66.61	62.11	55.77	45.84	29.98
1665.1	79.7	75.4	76.0	62.69	59.83	66.21	69.25	70.77	69.30	66.18	61.54	55.07	44.91	28.96

RUN NUMBER	= 102.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 532.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 1.000
VELOCITY RATIO	= .350
PRIMARY VELOCITY (FT/SEC)	= 900.219
MASS FLOW RATIO	= .529
PRIMARY MASS FLOW (LB/SEC)	= .210
THRUST (LBS)	= 7.059
ENVIRONMENTAL TEMPERATURE (R)	= 523.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.810
ENVIRONMENTAL HUMIDITY (PER CENT)	= 67.000
CALIBRATION FACTOR (VOLTS TO DYNES/SQ CM)	= .007
INSTRUMENTATION NOISE FLOOR (DB)	= 46.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.496336E-02	118.1
500	7.005216-04	98.5
1000	3.920885E-03	105.9
2000	1.462546-02	111.7
4000	1.927706-02	112.8
8000	1.534836-02	111.9
16000	7.812186-03	108.9
31500	3.270996-03	105.1

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	149.6
20000	152.6
40000	155.7
80000	158.7

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	77.2	89.1	90.3	87.8	81.4	73.6	66.9	93.5
20.0	76.7	84.9	90.5	89.1	83.4	75.5	68.6	94.1
25.0	75.6	83.7	89.5	89.0	84.1	77.0	70.6	93.6
30.0	74.0	82.3	88.2	88.8	85.3	78.9	72.5	93.1
35.0	72.5	80.6	86.5	86.0	86.3	80.8	74.9	92.5
40.0	71.2	78.5	84.7	86.7	85.8	81.9	76.6	91.6
45.0	69.1	76.6	82.7	85.6	85.4	82.1	77.2	90.7
50.0	67.8	75.0	80.9	84.0	84.3	81.8	77.9	89.5
55.0	67.1	73.8	80.0	83.1	83.7	81.3	77.7	88.8
60.0	66.6	72.9	79.8	81.7	82.1	79.9	76.4	87.4
65.0	66.4	72.9	78.5	81.6	82.2	80.4	77.3	87.5
70.0	66.0	71.8	77.4	81.4	81.4	79.4	76.0	86.6
75.0	65.6	72.7	77.0	80.7	81.5	79.7	76.3	86.7
80.0	65.5	71.1	76.7	80.0	80.5	78.7	75.4	85.8
85.0	65.6	71.3	76.5	79.8	80.6	78.7	75.4	85.8
90.0	65.3	70.8	76.3	79.1	80.0	78.2	75.1	85.3
95.0	65.5	71.0	76.1	79.0	79.6	77.9	74.7	85.0
100.0	63.5	70.3	75.3	78.4	79.4	77.5	74.6	84.6
105.0	63.3	70.4	75.2	78.1	79.2	77.6	74.6	84.5
110.0	62.6	69.6	74.7	77.6	78.3	76.9	73.8	83.8
115.0	61.6	69.1	74.8	77.3	78.0	76.5	73.8	83.5

MODEL THRUST = 7.059 FULL SCALE THRUST = 20000.000

L=	PNDB=	OASPL		OCTAVE 9.4	BAND 18.8	SOUND 37.6	PRESSURE 75.1	LEVELS 150.3	300.6	591.8	1183.5	2368.3	4696.6	9393.2
5795.6	65.2	64.2	73.2	57.06	64.94	70.09	67.51	60.78	52.01	42.93	33.98	17.89	-11.94	-64.40
4385.7	70.1	68.9	76.2	58.91	67.14	72.70	71.25	65.30	56.72	47.97	40.66	27.56	4.24	-36.17
3549.1	73.1	71.6	77.5	59.69	67.91	73.56	72.96	67.86	60.23	52.40	45.76	34.74	15.31	-17.98
3000.6	76.0	74.2	79.6	59.53	67.87	73.77	74.29	70.59	63.75	56.12	50.04	40.27	23.38	-5.22
2615.2	78.4	76.2	79.1	59.94	67.14	73.25	74.76	72.79	66.97	59.91	54.23	45.19	30.21	4.86
2333.8	79.7	77.0	79.2	58.90	66.26	72.40	74.60	73.39	69.03	62.85	57.45	49.18	35.38	12.47
2121.1	80.6	77.8	79.1	57.41	65.11	71.28	74.07	73.79	70.18	64.61	59.23	51.44	38.62	17.51
1950.1	81.1	77.7	78.8	57.02	64.21	70.10	73.22	73.44	70.41	65.76	60.75	53.33	41.26	21.65
1801.2	81.4	77.8	78.5	56.96	63.61	69.81	72.87	73.40	70.75	66.36	61.48	54.14	42.86	24.24
1732.1	80.5	76.8	77.6	56.88	63.25	69.08	71.91	72.25	69.14	65.60	60.82	53.91	42.89	25.11
1656.1	81.5	77.6	78.2	57.12	63.57	69.17	72.24	72.77	70.60	66.93	62.24	55.50	44.84	27.71
1596.3	80.8	76.9	77.5	56.99	62.78	68.47	71.55	72.30	70.76	66.99	61.16	54.75	44.38	27.76
1552.9	81.6	77.4	77.9	56.91	63.63	68.26	71.49	72.67	70.61	66.58	61.99	55.48	45.29	29.04
1523.1	80.8	76.8	77.2	56.91	62.68	68.16	71.35	71.81	69.78	65.86	61.29	54.85	44.80	28.80
1505.7	80.8	76.7	77.3	57.18	62.95	68.05	71.31	72.02	69.89	65.97	61.62	55.09	45.05	29.28
1500.0	80.3	76.2	76.8	56.88	62.76	67.80	70.65	71.45	69.60	65.74	61.20	54.81	44.86	29.06
1504.7	79.9	75.8	76.5	56.8-	62.69	67.60	70.66	71.02	68.94	65.24	60.69	54.29	44.32	28.47
1523.1	79.5	75.4	76.8	56.88	61.72	66.72	69.86	70.76	68.59	64.83	60.46	54.42	43.97	27.97
1542.4	79.2	75.1	75.7	56.52	61.65	66.69	69.13	70.34	68.60	64.84	60.25	53.76	43.55	27.30
1596.3	78.1	74.1	74.7	53.62	60.58	65.72	68.58	69.24	67.61	63.76	59.13	52.62	42.13	25.51
1695.1	77.4	73.4	74.1	52.34	59.82	65.68	67.97	68.64	66.80	63.41	58.71	51.98	41.31	24.19

RUN NUMBER	= 103.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 525.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 1.000
VELOCITY RATIO	= .700
PRIMARY VELOCITY (FT/SEC)	= 893.542
MASS FLOW RATIO	= .932
PRIMARY MASS FLOW (LB/SEC)	= .217
THRUST (LBS)	= 9.932
ENVIRONMENTAL TEMPERATURE (R)	= 523.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.410
ENVIRONMENTAL HUMIDITY (PER CENT)	= 67.000
CALIBRATION FACTOR (MV TO DYNES CM)	= .807
INSTRUMENTATION NOISE FLOOR (DB)	= 46.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR POOLE JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.15353E-01	120.6
500	1.34182E-03	101.1
1000	7.30225E-03	108.6
2000	2.53555E-02	114.0
4000	3.12544E-02	114.9
8000	2.74616E-02	114.4
16000	1.60264E-02	112.0
31500	6.65123E-03	108.2

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	150.6
20000	153.7
40000	156.7
80000	159.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	80.5	86.4	92.5	89.6	82.5	78.3	71.6	95.7
20.0	79.6	87.8	92.5	90.4	84.2	78.0	73.6	95.9
25.0	77.8	86.1	91.4	90.6	86.0	79.9	75.1	95.5
30.0	76.8	84.5	89.9	90.2	87.4	82.0	77.4	95.0
35.0	74.6	82.3	88.1	89.1	87.8	83.4	78.1	94.1
40.0	72.9	80.6	86.7	88.5	87.9	84.3	79.5	93.6
45.0	71.3	78.8	84.9	87.2	87.3	84.7	80.4	92.7
50.0	70.2	77.6	84.1	86.3	86.6	84.6	80.5	92.0
55.0	69.7	76.7	82.9	85.2	85.8	84.0	80.6	91.2
60.0	69.8	76.0	82.0	84.5	85.2	83.4	79.9	90.6
65.0	69.8	76.1	81.6	84.4	85.1	83.2	80.2	90.5
70.0	69.4	75.6	80.9	83.8	84.4	83.0	79.6	89.9
75.0	68.7	75.3	81.0	83.7	84.1	82.6	79.3	89.6
80.0	68.6	74.5	80.5	82.9	83.6	82.0	78.5	89.0
85.0	68.3	74.5	80.1	83.0	83.8	81.8	78.1	89.0
90.0	68.0	74.2	79.7	82.2	83.4	81.5	78.0	88.6
95.0	67.3	74.2	80.1	81.9	83.3	81.7	78.1	88.6
100.0	66.6	73.6	79.5	81.5	82.7	81.2	77.6	88.0
105.0	65.6	73.0	79.5	81.4	82.3	81.1	77.5	87.8
110.0	65.5	72.6	78.9	81.0	81.9	81.0	76.7	87.4
115.0	65.5	72.2	78.7	80.6	81.5	80.9	76.5	87.1

MODEL THRUST = 9.932 FULL SCALE THRUST = 20000.000

L*	PNDB*	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 11.1	22.3	44.6	89.1	178.3	356.6	702.0	1404.0	2785.6	5571.3	11142.5
5795.6	67.4(66.5)	73.9	58.85	66.68	70.78	67.73	60.23	52.84	45.18	34.86	16.13	-18.35	-77.98
4385.7	71.8(70.6)	78.6	60.35	68.61	73.20	71.05	64.56	57.39	50.70	42.16	27.20	.44	-45.41
3549.3	75.2(73.6)	77.9	60.41	68.71	73.94	73.13	68.26	61.40	54.82	47.33	34.70	12.42	-25.26
3000.0	78.2(76.3)	78.9	60.66	68.60	73.93	74.18	71.19	64.17	58.95	52.16	41.02	21.72	-10.59
2615.9	79.8(77.7)	79.1	59.83	67.58	73.31	74.32	72.74	67.85	61.20	54.90	44.80	27.59	-.96
2333.8	81.4(78.9)	79.8	59.18	66.83	72.87	74.66	73.94	69.87	63.84	57.90	48.66	32.88	7.69
2121.3	82.4(79.5)	79.6	58.32	65.84	71.93	74.23	74.12	71.13	65.73	60.65	51.29	36.77	13.04
1958.1	83.0(79.9)	79.6	57.94	65.17	71.84	73.96	74.15	71.72	66.61	61.14	52.82	39.18	17.05
1831.9	83.2(79.9)	79.4	58.04	65.09	71.23	73.69	73.97	71.75	67.39	62.08	54.11	41.16	20.27
1732.1	83.1(79.7)	79.2	58.62	64.74	70.77	73.28	73.89	71.87	67.25	62.06	54.36	41.95	22.03
1655.1	83.6(80.1)	79.6	59.01	65.28	70.81	73.56	74.21	71.97	68.02	62.93	55.44	43.45	24.28
1594.4	83.6(80.0)	79.3	58.92	65.17	70.46	73.29	73.41	72.02	67.86	62.84	55.41	43.84	25.24
1552.9	83.5(79.9)	79.3	58.41	65.03	70.73	73.42	73.70	71.90	67.75	62.79	55.47	44.14	25.96
1523.1	83.1(79.5)	78.8	58.56	64.43	70.43	72.76	73.40	71.47	67.24	62.31	55.18	43.90	26.02
1505.7	83.0(79.5)	78.9	58.11	64.53	70.17	73.00	73.72	71.40	66.91	62.01	54.92	43.74	26.03
1500.6	82.7(79.1)	78.6	58.10	64.31	69.73	72.27	73.32	71.15	66.82	61.92	54.85	43.70	26.05
1505.7	82.8(79.1)	78.5	57.10	64.21	70.17	71.88	73.24	71.24	66.91	62.01	54.92	43.74	26.03
1521.1	82.1(78.5)	77.8	56.51	63.69	69.60	71.35	72.61	70.64	66.27	61.34	54.21	42.93	25.65
1552.9	81.7(78.1)	77.5	55.28	62.79	69.27	71.13	71.90	70.30	65.80	61.04	53.83	42.39	24.27
1594.4	81.0(77.6)	76.8	55.02	62.10	68.47	70.49	71.24	70.09	64.94	59.92	52.59	40.92	22.32
1645.1	80.4(77.0)	76.2	54.71	61.19	67.90	69.77	70.55	69.61	64.36	59.25	51.76	39.77	20.80

RUN NUMBER	= 106.000
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 525.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 1.000
VELOCITY RATIO	= 1.000
PRIMARY VELOCITY (FT/SEC)	= 891.562
MASS FLOW RATIO	= 1.329
PRIMARY MASS FLOW (LB/SEC)	= .715
THRUST (LBS)	= 13.498
ENVIRONMENTAL TEMPERATURE (R)	= 523.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.790
ENVIRONMENTAL HUMIDITY (PER CENT)	= 67.000
CALIBRATION FACTOR (MV TO DYN/SQ CM)	= .013
INSTRUMENTATION NOISE FLOOR (DB)	= 51.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.52823E-01	127.4
500	4.33204E-03	106.4
1000	2.61476E-02	114.2
2000	1.11796E-01	120.5
4000	1.37293E-01	121.4
8000	1.50649E-01	121.8
16000	8.37469E-02	119.2
31500	3.88591E-02	115.9

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	156.0
20000	159.0
40000	162.0
80000	165.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	84.4	92.4	95.9	92.5	87.7	83.9	79.0	99.3
20.0	84.3	92.4	96.8	93.7	89.1	85.0	80.9	100.2
25.0	83.3	91.7	96.8	94.8	90.0	86.8	83.6	100.5
30.0	82.1	90.6	96.4	95.5	91.4	88.1	85.4	100.6
35.0	80.6	89.1	94.9	95.1	92.7	89.5	86.3	100.2
40.0	78.9	87.2	93.2	94.4	93.2	90.5	87.2	99.6
45.0	77.6	85.5	92.0	93.9	93.1	91.1	88.0	99.2
50.0	75.8	83.7	90.5	92.8	93.2	91.4	87.9	98.7
55.0	75.4	82.8	88.8	92.3	93.0	91.2	87.6	98.3
60.0	74.9	81.6	89.1	91.6	92.9	91.0	87.7	98.0
65.0	74.7	81.5	89.2	91.4	93.0	90.5	87.4	97.8
70.0	74.0	80.8	89.0	91.2	93.5	90.5	87.4	97.9
75.0	74.2	80.5	88.6	91.0	92.7	90.1	87.0	97.4
80.0	73.7	80.3	87.6	90.3	92.3	89.6	86.6	96.8
85.0	73.5	80.1	87.0	89.4	91.9	89.1	85.9	96.3
90.0	73.3	80.0	87.3	89.4	92.2	89.5	86.1	96.5
95.0	72.7	79.5	87.9	89.8	91.6	89.9	85.3	96.3
100.0	71.9	78.9	88.3	90.0	91.7	89.7	85.3	96.4
105.0	71.4	78.5	88.7	90.3	92.3	89.4	85.0	96.6
110.0	70.5	77.7	88.0	89.7	90.6	88.5	85.0	95.8
115.0	70.3	76.7	87.4	89.4	89.8	88.5	84.3	95.3

MODEL THRUST = 13.498 FULL SCALE THRUST = 20000.000

L=	PROB:	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 13.2	26.4	52.7	105.4	210.9	421.8	830.4	1660.7	3295.1	6590.2	13180.5
5795.6	71.8(70.9)	76.0	61.25	69.27	72.72	69.12	63.82	58.81	49.84	37.91	16.17	-23.46	-98.75
4385.7	76.6(75.3)	79.3	63.64	71.48	76.04	72.84	67.80	62.55	55.66	45.91	28.73	-1.99	-83.84
3549.3	80.4(78.8)	81.4	64.45	72.78	77.88	75.78	70.71	66.49	61.06	52.59	38.11	12.68	-29.69
3000.8	83.4(81.4)	83.0	64.57	73.20	78.95	77.95	73.57	69.52	64.84	57.22	44.62	22.56	-13.72
2615.2	86.8(83.4)	83.7	64.41	72.88	78.63	78.82	76.11	72.24	67.33	60.31	48.85	29.32	-2.69
2333.6	87.1(86.6)	86.1	63.71	71.95	77.91	79.08	77.62	74.15	69.55	62.95	52.41	34.66	5.77
2121.1	88.3(85.5)	84.6	63.20	71.08	77.56	79.41	78.45	75.89	71.37	65.10	55.24	38.83	12.30
1958.1	89.1(86.1)	84.7	62.14	70.06	76.79	78.99	79.27	76.96	72.16	66.14	56.81	41.43	16.71
1831.9	89.5(86.4)	84.9	62.26	69.71	76.67	79.12	79.63	77.34	72.53	66.71	57.79	43.82	19.90
1732.1	89.9(86.7)	85.0	62.27	68.99	76.45	78.90	80.08	77.65	73.31	67.66	59.04	46.09	22.88
1655.1	90.1(86.9)	85.3	62.46	69.23	76.98	79.06	80.53	77.65	73.40	67.85	59.60	46.04	24.68
1594.1	90.7(87.4)	85.7	62.06	68.88	77.09	79.22	81.32	77.96	73.85	68.39	60.23	47.14	26.44
1542.9	90.6(87.1)	85.8	62.69	68.79	76.86	79.24	80.78	77.77	73.69	68.26	60.24	47.43	27.20
1503.1	90.2(86.8)	85.1	62.22	68.80	76.02	78.78	80.63	77.45	73.47	68.13	60.28	47.57	27.68
1465.7	89.7(86.4)	84.7	62.09	68.73	75.59	77.96	80.30	77.10	73.82	67.90	59.63	47.12	27.42
1430.0	90.0(86.6)	84.9	61.89	68.44	75.85	77.99	80.61	77.51	73.19	67.88	60.03	47.55	27.91
1405.7	89.5(86.1)	84.6	61.26	68.07	75.67	78.14	79.94	76.91	72.34	67.02	59.15	46.63	26.93
1373.1	89.6(86.1)	84.6	60.34	67.73	76.81	78.42	79.97	76.55	73.22	66.87	58.45	46.32	25.43
1342.9	89.3(86.2)	84.7	59.76	68.83	76.96	78.55	80.60	76.14	71.66	66.27	58.26	45.44	25.21
1298.1	88.2(84.9)	83.6	58.67	65.80	76.84	77.71	78.38	75.91	71.38	65.92	57.76	44.67	23.96
1255.1	87.5(84.3)	82.8	58.09	66.66	75.19	77.98	77.30	75.66	70.30	64.75	56.60	42.96	21.58

RUN NUMBER	= 106.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 522.000
SECONDARY TEMPERATURE (R)	= 522.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 2.007
VELOCITY RATIO	= .348
PRIMARY VELOCITY (FT/SEC)	= 830.945
MASS FLOW RATIO	= 1.091
PRIMARY MASS FLOW (LB/SEC)	= .215
THRUST (LBS)	= 8.198
ENVIRONMENTAL TEMPERATURE (R)	= 523.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.910
ENVIRONMENTAL HUMIDITY (PER CENT)	= 76.000
CALIBRATION FACTOR (DB TO DYNES/CM)	= .000
INSTRUMENTATION NOISE FLOOR (DB)	= 44.574

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.858746E-02	117.7
500	7.766288E-04	98.9
1000	3.923390E-03	105.9
2000	1.363628E-02	111.3
4000	1.750683E-02	112.4
8000	1.383300E-02	111.4
16000	6.466568E-03	108.1
31500	2.667908E-03	104.2

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	148.5
20000	151.6
40000	154.6
80000	157.6

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	77.9	85.4	89.9	87.3	81.8	73.2	66.9	93.2
20.0	77.3	84.9	89.9	88.1	83.0	75.2	69.1	93.5
25.0	76.0	83.5	89.2	88.7	84.7	77.6	71.3	93.4
30.0	74.8	82.4	87.7	88.4	85.7	79.4	73.7	92.9
35.0	72.7	80.5	86.2	87.8	86.4	81.4	75.6	92.5
40.0	71.2	78.7	84.4	86.5	86.0	82.0	76.9	91.5
45.0	69.6	76.3	82.3	85.2	85.0	81.9	77.4	90.3
50.0	67.9	74.8	80.9	84.2	84.2	81.6	77.5	89.5
55.0	67.2	73.5	80.1	82.9	83.2	80.8	77.1	88.5
60.0	67.2	72.9	78.9	82.1	82.3	80.0	76.7	87.6
65.0	66.7	72.5	78.2	81.3	81.4	79.3	75.7	86.9
70.0	66.3	72.2	77.6	80.4	81.1	78.8	75.3	86.4
75.0	66.6	71.8	76.9	79.4	80.2	78.0	74.9	85.6
80.0	66.5	71.5	76.6	79.5	79.6	77.4	74.1	85.1
85.0	65.6	71.3	76.2	78.5	79.0	76.8	73.4	84.5
90.0	65.3	70.7	75.6	78.3	78.6	76.3	73.2	84.1
95.0	64.4	70.6	75.6	77.7	78.1	75.9	72.8	83.7
100.0	64.3	70.6	74.7	77.3	77.6	75.2	72.3	83.1
105.0	64.0	70.2	74.8	77.0	77.2	74.9	72.0	82.8
110.0	62.8	69.8	74.1	76.2	76.6	74.6	72.2	82.3
115.0	63.0	69.4	73.8	75.8	75.9	73.6	71.1	81.7

MODEL THRUST = 8.198 FULL SCALE THRUST = 20000.000

L*	PNDB*	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 10.1	20.2	40.5	81.0	162.0	323.9	647.8	1295.6	2590.8	5061.5	10123.1
5795.6	44.9(44.1)	72.2	57.08	64.52	68.99	66.29	60.67	50.85	41.93	32.41	15.21	-16.59	-72.10
4385.7	69.4(68.2)	75.0	58.85	66.61	71.44	69.56	64.23	55.84	47.49	39.56	25.81	1.02	-61.72
3549.3	73.2(71.7)	76.8	59.47	68.92	72.62	72.05	67.74	60.11	52.71	45.22	33.52	12.89	-22.28
3000.6	74.0(74.2)	77.7	59.73	67.25	72.52	73.26	70.34	63.41	56.40	50.02	39.67	21.76	-8.42
2614.2	78.1(74.1)	78.4	58.83	66.60	72.27	73.86	72.21	66.78	59.77	53.83	44.42	28.63	1.73
2333.8	79.4(76.8)	78.4	58.28	66.72	71.46	73.55	72.88	68.47	62.20	56.67	47.06	33.35	9.21
2121.3	79.9(76.9)	78.0	57.12	64.26	70.20	73.00	72.69	69.25	63.71	58.34	50.15	36.81	14.38
1958.1	80.3(77.1)	77.9	56.48	61.63	69.45	72.71	72.68	69.53	64.71	59.51	51.71	39.98	18.23
1831.2	80.3(76.9)	77.5	56.34	62.64	69.29	72.01	72.25	69.51	64.99	59.93	52.45	40.35	20.75
1732.1	80.2(76.4)	77.2	56.83	62.56	68.58	71.72	71.80	69.19	65.16	60.19	52.94	41.34	22.44
1656.1	79.9(76.2)	76.8	56.78	62.60	68.22	71.35	71.36	68.89	65.07	59.71	52.85	41.43	23.63
1596.3	79.8(76.1)	76.6	56.63	62.51	67.98	70.95	71.16	68.71	64.61	59.72	52.81	41.48	24.61
1552.9	79.4(75.8)	76.1	57.22	62.65	67.56	70.42	70.69	68.22	64.34	59.60	52.80	42.08	25.01
1523.1	78.9(75.1)	75.8	57.27	62.28	67.11	70.22	70.20	67.76	63.76	59.05	52.32	41.75	24.98
1505.7	78.4(74.6)	75.3	56.52	62.17	67.07	69.30	69.77	67.24	63.20	58.51	51.82	41.36	24.69
1500.6	78.0(74.2)	74.9	56.16	61.62	66.55	69.13	69.38	66.81	63.06	58.17	51.70	41.29	24.65
1508.7	77.5(73.7)	74.5	55.29	61.63	66.42	68.55	68.86	66.39	62.66	57.96	51.58	40.79	24.15
1523.1	76.8(72.9)	73.8	55.04	61.39	65.45	68.01	68.29	65.69	61.97	57.25	50.42	39.94	23.15
1542.9	76.1(72.4)	73.4	54.57	60.77	65.44	67.53	67.66	65.06	61.47	56.73	49.92	39.20	22.13
1564.1	75.4(71.9)	72.6	53.17	60.20	64.49	66.52	66.85	64.74	61.41	56.51	49.70	38.77	21.30
1585.1	74.5(70.7)	71.7	53.03	59.66	63.83	65.85	65.77	63.54	59.98	55.13	48.06	36.86	18.86

RUN NUMBER	107.00 (705.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	8.000
PRIMARY TEMPERATURE (R)	524.000
SECONDARY TEMPERATURE (R)	524.000
PRIMARY PRESSURE RATIO	1.600
AREA RATIO	2.007
VELOCITY RATIO	.700
PRIMARY VELOCITY (FT/SEC)	892.690
MASS FLOW RATIO	1.994
PRIMARY MASS FLOW (LB/SEC)	.208
THRUST (LBS)	13.835
ENVIRONMENTAL TEMPERATURE (R)	518.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.900
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (MV TO DYNS/CM)	.006
INSTRUMENTATION NOISE FLOOR (DB)	45.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.600649E-02	118.2
500	2.416596-03	103.8
1000	3.435268-03	105.4
2000	2.055356-02	113.1
4000	1.766168-02	112.5
8000	1.024506-02	110.1
16000	4.210146-03	106.0
31500	1.662746-03	102.2

OVERALL SOUND POWER LEVEL+SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	146.8
20000	149.8
40000	152.8
80000	155.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	83.5	88.4	89.4	84.0	79.6	68.3	65.9	93.3
20.0	82.5	88.2	90.5	86.0	77.8	69.4	67.0	93.6
25.0	81.6	87.8	90.6	87.4	76.9	71.6	67.9	94.1
30.0	80.0	86.5	89.6	87.9	82.2	76.3	69.8	93.6
35.0	77.7	84.7	88.3	87.4	83.5	76.8	72.0	92.7
40.0	76.0	82.6	86.9	86.8	84.1	78.3	73.0	91.9
45.0	73.7	80.6	85.1	85.7	83.7	79.0	74.0	90.7
50.0	72.7	79.3	84.1	84.8	83.2	79.0	74.8	89.9
55.0	71.7	78.0	82.6	83.6	82.3	78.6	74.2	88.8
60.0	71.3	77.3	81.6	82.7	81.7	78.3	74.3	88.1
65.0	71.0	76.5	80.8	82.1	81.0	77.6	73.6	87.3
70.0	70.4	76.0	80.1	81.4	80.6	77.1	73.1	86.8
75.0	71.1	75.1	79.6	80.8	80.0	76.7	73.1	86.2
80.0	69.5	74.6	78.8	80.2	79.3	76.2	72.6	85.6
85.0	69.6	74.8	78.6	79.7	78.8	75.7	72.5	85.3
90.0	69.3	74.3	78.3	79.4	78.6	75.6	72.1	84.9
95.0	69.4	73.7	77.9	78.7	78.1	75.0	72.0	84.5
100.0	68.1	73.6	77.2	78.1	77.7	74.9	72.2	84.8
105.0	68.0	73.1	76.7	78.0	77.1	74.6	71.1	83.6
110.0	67.5	72.6	76.6	77.2	76.7	74.1	71.3	83.1
115.0	66.9	72.1	75.8	76.5	76.2	73.5	71.0	82.6

MODEL THRUST = 13.835 FULL SCALE THRUST = 20000.000

L.	PHOB.	OASPL	13.2	OCTAVE 26.5	BAND 53.0	SOUND 105.2	PRESSURE 210.4	LEVELS 420.8	838.5	1644.9	3287.4	6574.9	13150.4
5705.4	61.0	80.3	70.1	40.37	65.10	64.65	60.66	51.76	42.49	36.75	24.85	3.15	-34.61	-183.59
4385.7	66.1	85.1	73.1	41.80	67.51	69.78	65.13	54.60	44.88	41.73	32.08	14.85	-15.01	-67.38
3549.9	69.9	88.7	74.2	42.78	68.95	71.72	68.60	60.48	51.16	45.69	36.97	22.52	-2.87	-45.14
3000.0	72.7	91.3	76.1	42.98	69.07	72.17	70.41	64.43	56.73	49.27	41.67	28.00	7.07	-29.16
2619.2	74.9	93.1	76.4	41.96	69.52	72.05	71.12	66.96	60.43	53.10	45.88	34.45	15.19	-18.81
2335.6	76.5	94.5	78.5	44.82	67.70	71.66	71.56	68.68	63.04	55.16	48.78	38.25	20.53	-11.31
2121.7	77.2	96.9	78.1	49.72	66.35	70.68	71.24	69.03	63.77	57.39	51.19	41.39	24.91	-1.58
1948.1	77.8	95.2	78.1	50.06	65.57	70.37	71.01	69.28	64.53	58.05	53.06	43.73	28.17	5.69
1801.9	77.7	94.9	75.5	48.56	64.84	69.66	70.66	69.01	64.81	58.26	53.43	44.52	29.97	8.49
1732.1	77.9	94.9	75.3	48.48	64.73	69.80	70.65	68.87	64.65	58.02	54.26	45.67	31.76	9.58
1655.1	77.5	94.5	75.0	48.77	64.36	69.66	69.77	69.06	64.63	58.64	54.64	45.54	32.16	10.81
1594.3	77.6	94.6	74.7	48.52	64.58	69.14	69.64	68.64	64.51	57.51	54.01	45.01	32.66	12.18
1552.6	77.3	94.1	74.4	49.60	63.19	67.92	69.35	68.00	64.82	58.82	54.43	46.52	33.63	13.63
1523.1	76.8	93.6	74.0	47.87	63.14	67.36	68.66	67.65	64.09	58.69	54.15	46.33	33.63	13.76
1504.7	76.5	93.2	73.7	48.14	63.60	67.21	68.26	67.17	63.69	58.50	54.18	46.33	33.83	14.18
1500.0	76.2	93.0	73.6	47.91	63.04	66.87	67.96	66.96	63.64	58.20	53.90	46.04	33.68	13.98
1505.7	76.4	93.1	73.8	47.94	63.17	66.93	67.94	66.91	63.62	58.05	53.73	45.89	33.58	13.78
1523.1	76.8	93.5	73.8	47.97	63.11	66.96	68.08	66.97	63.64	58.16	53.82	45.98	33.58	13.63
1552.6	76.7	93.4	73.9	48.29	63.20	67.06	68.20	67.04	63.73	58.21	53.93	45.99	33.68	13.82
1596.3	76.1	93.7	73.1	47.46	63.44	66.93	67.83	66.88	63.53	57.93	53.77	46.12	33.68	13.37
1655.1	75.2	93.7	74.2	48.69	63.48	66.94	67.81	66.66	63.53	57.89	53.59	45.91	33.77	0.00

RUN NUMBER	108.00 (728.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	521.000
SECONDARY TEMPERATURE (R)	526.000
PRIMARY PRESSURE RATIO	1.440
AREA RATIO	2.047
VELOCITY RATIO	1.001
PRIMARY VELOCITY (FT/SEC)	891.818
MASS FLOW RATIO	2.010
PRIMARY MASS FLOW (LB/SEC)	.213
THRUST (LBS)	21.346
ENVIRONMENTAL TEMPERATURE (R)	521.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	70.000
CALIBRATION FACTOR (DV TO DYNES/CM)	.025
INSTRUMENTATION NOISE FLOOR (DB)	57.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.17976E+00	130.7
500	1.43432E-02	111.6
1000	1.06312E-01	120.3
2000	3.84393E-01	125.9
4000	2.55700E-01	124.1
8000	2.27702E-01	123.6
16000	1.29438E-01	121.1
31500	5.98713E-02	117.8

OVERALL SOUND POWER LEVEL•SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.4
20000	160.4
40000	163.4
80000	166.5

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	90.0	98.8	99.2	93.9	89.1	86.1	84.6	103.2
20.0	89.8	98.8	100.9	96.1	92.1	88.5	84.2	104.4
25.0	88.5	98.4	102.0	98.1	94.3	90.2	87.1	105.3
30.0	87.1	97.2	101.8	98.9	95.7	92.1	85.9	105.4
35.0	85.6	95.2	101.4	98.5	97.2	93.3	89.6	105.6
40.0	83.0	92.5	99.4	98.4	97.3	93.7	90.1	104.2
45.0	80.9	90.0	98.3	97.3	96.9	94.1	90.4	103.4
50.0	79.4	88.2	97.9	96.1	96.2	94.1	90.5	102.8
55.0	78.9	87.1	96.7	94.8	95.3	93.5	90.4	101.8
60.0	79.6	86.9	94.5	94.1	95.0	93.1	89.6	101.4
65.0	79.7	87.1	95.5	93.8	94.4	92.2	88.6	100.7
70.0	80.0	87.3	94.7	93.1	93.7	91.6	86.7	100.1
75.0	80.7	87.5	93.3	93.0	93.4	91.5	88.6	99.6
80.0	80.1	87.2	93.0	92.7	93.0	90.8	87.7	99.2
85.0	80.1	86.8	92.2	92.3	92.6	90.5	87.3	98.7
90.0	79.4	86.4	91.7	91.9	92.3	90.3	86.9	98.4
95.0	78.9	85.6	91.5	91.4	92.3	90.1	86.6	98.1
100.0	78.3	85.2	91.2	90.5	91.7	89.3	86.2	97.5
105.0	77.3	83.7	90.7	90.5	91.4	89.5	86.2	97.2
110.0	76.5	83.0	90.2	90.3	90.9	88.8	85.3	96.7
115.0	75.6	82.0	89.1	89.9	90.7	89.2	85.4	96.4

MODEL THRUST = 21.346 FULL SCALE THRUST = 20000.000

L=	PRDR=	DASPL	16.3	OCTAVE BAND SOUND PRESSURE LEVELS 32.7	65.3	130.7	261.4	522.7	1329.1	2058.2	4083.7	A1A7.4	16336.7
5705.6	73.5(72.7)	78.0	64.98	73.80	74.13	68.56	62.99	57.95	51.52	37.12	10.88	-36.19	-114.14
4385.7	79.1(78.1)	81.7	67.23	76.24	78.30	73.28	68.68	63.60	57.49	45.86	25.27	-11.09	-70.70
3549.3	83.4(82.2)	84.4	67.73	77.62	81.24	77.19	72.93	67.52	61.43	51.65	34.22	4.23	-44.67
3000.8	86.4(84.9)	85.9	67.85	77.93	82.51	79.56	75.89	71.20	65.62	56.51	41.68	15.67	-24.12
2615.2	88.7(87.0)	87.0	67.28	77.88	83.26	81.28	78.64	73.79	67.84	59.70	46.21	23.32	-13.49
2333.5	89.8(87.7)	86.8	65.91	75.61	82.18	81.19	79.92	75.39	69.76	62.17	49.81	29.04	-6.11
2121.3	90.3(88.1)	86.4	64.44	73.70	81.09	80.94	80.28	76.74	71.17	63.99	52.69	33.35	2.92
1958.1	90.6(88.2)	86.9	63.83	72.61	82.36	80.66	80.23	77.49	72.25	65.48	54.55	36.66	8.36
1831.7	90.4(88.0)	86.5	63.93	72.44	81.74	79.72	79.88	77.47	72.45	66.25	55.98	38.99	12.30
1732.1	90.4(88.1)	86.6	65.13	72.61	81.99	79.67	80.15	77.71	72.71	66.31	56.36	40.19	14.79
1645.1	90.4(87.9)	86.3	65.64	73.01	81.34	79.89	79.97	77.14	72.19	65.93	56.29	40.71	15.29
1566.1	90.5(87.6)	86.0	64.18	73.24	80.85	79.36	79.58	76.97	72.72	66.59	57.17	42.04	16.39
1552.9	90.5(87.6)	85.8	67.15	73.92	79.77	79.36	79.54	77.11	72.88	66.83	57.40	42.29	16.71
1523.1	90.2(87.3)	85.5	66.69	73.78	79.62	79.26	79.35	76.97	72.23	66.23	57.12	42.54	16.86
1505.7	89.9(87.0)	85.1	66.79	73.67	78.93	78.89	79.06	76.65	71.97	66.00	56.98	42.51	16.86
1508.8	89.8(86.7)	84.8	66.15	73.12	78.67	78.59	78.78	76.29	71.60	65.69	56.64	42.23	16.83
1505.7	89.9(86.6)	84.6	65.83	72.97	78.70	78.66	78.78	76.92	71.22	65.24	56.22	41.77	16.38
1523.1	89.8(86.8)	83.8	66.89	73.88	77.87	77.87	78.86	75.11	73.75	64.75	55.66	41.08	16.37
1552.9	89.2(85.3)	83.6	63.73	73.17	77.13	76.98	77.99	74.13	70.94	64.69	55.20	40.65	17.37
1594.1	87.2(84.6)	82.6	62.71	69.23	76.63	76.66	76.77	74.11	69.20	63.16	53.75	38.61	14.97
1655.1	86.6(83.8)	81.9	61.56	67.87	75.00	75.78	76.33	74.21	69.08	62.74	53.18	37.92	13.18

RUN NUMBER	= 100.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 520.000
SECONDARY TEMPERATURE (R)	= 520.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 2.087
VELOCITY RATIO	= 1.150
PRIMARY VELOCITY (FT/SEC)	= 892.400
MASS FLOW RATIO	= 3.256
PRIMARY MASS FLOW (LB/SEC)	= .205
THRUST (LBS)	= 26.956
ENVIRONMENTAL TEMPERATURE (R)	= 523.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.780
ENVIRONMENTAL HUMIDITY (PER CENT)	= 50.000
CALIBRATION FACTOR (DB TO DB/SQ CM)	= .032
INSTRUMENTATION NOISE FLOOR (DB)	= 59.573

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.980626+00	133.0
500	1.904416-02	112.8
1000	1.166106-01	120.7
2000	3.714576-01	125.7
4000	6.916336-01	128.4
8000	5.246346-01	127.2
16000	3.112566-01	124.9
31500	1.439856-01	121.6

OVERALL SOUND POWER LEVEL+SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.7
20000	161.7
40000	164.7
80000	167.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	91.8	98.3	100.6	97.6	96.3	90.7	87.8	104.7
20.0	91.3	99.3	102.1	99.4	96.8	92.6	88.9	106.2
25.0	90.2	99.1	103.1	100.9	98.3	94.8	91.1	107.2
30.0	88.3	97.3	102.4	101.7	99.5	96.3	92.9	107.3
35.0	87.1	95.9	102.0	102.2	100.9	97.3	93.6	107.5
40.0	84.4	93.7	99.8	101.5	101.9	97.9	94.2	106.8
45.0	82.7	91.5	97.0	100.7	101.2	98.4	94.5	106.3
50.0	81.8	89.5	95.9	98.6	99.7	97.9	94.3	104.9
55.0	80.0	87.7	94.2	97.6	98.0	97.0	94.2	103.9
60.0	80.9	87.3	93.3	97.1	98.2	96.4	93.3	103.2
65.0	80.3	86.8	93.1	96.4	97.9	96.9	93.0	102.8
70.0	80.6	86.6	92.9	96.0	97.3	95.3	92.4	102.3
75.0	80.6	87.0	92.5	95.9	97.0	95.1	92.0	102.1
80.0	80.4	86.5	91.9	95.1	96.1	94.2	91.0	101.2
85.0	80.4	86.4	92.0	94.7	96.0	94.2	91.1	101.1
90.0	79.7	86.1	91.6	94.7	96.0	93.9	90.6	100.9
95.0	79.1	85.6	91.2	94.2	95.7	93.9	90.6	100.7
100.0	78.8	85.6	90.7	93.5	95.5	93.4	90.0	100.2
105.0	77.6	84.8	90.8	93.2	94.6	93.1	89.9	99.8
110.0	76.9	83.7	90.0	93.4	94.4	93.1	89.7	99.6
115.0	76.2	83.0	89.4	92.6	96.2	92.6	88.8	99.1

MODEL THRUST = 26.956 FULL SCALE THRUST = 20000.000

L.	PWDR.	OASPL	18.4	OCTAVE 36.7	BAND 73.4	SOUND 146.8	PRESSURE 293.7	LEVELS 587.4	1156.4	2312.9	4589.0	9178.8	18356.1
5795.6	76.4(75.8)	78.3	65.77	72.28	74.43	70.93	66.98	61.83	52.17	36.19	7.16	-44.37	-128.49
4385.7	91.9(91.0)	92.3	67.68	75.65	78.45	75.53	72.26	66.18	59.22	45.40	22.78	-17.83	-81.41
3549.3	85.9(84.8)	85.1	68.49	77.33	81.26	78.84	75.75	70.76	63.48	52.65	33.71	.99	-51.49
3000.0	88.7(87.3)	86.6	68.06	77.05	82.01	81.25	78.57	74.07	67.75	58.03	41.56	15.43	-31.56
2615.2	91.1(89.5)	88.0	68.81	76.78	82.81	82.47	81.70	76.58	70.02	61.17	46.42	21.52	-19.68
2333.9	92.2(90.4)	89.2	68.32	75.47	81.68	83.10	82.41	78.31	72.35	64.14	50.46	29.12	-7.55
2121.9	93.2(91.2)	90.4	65.41	74.24	80.54	83.25	83.42	79.80	74.76	66.01	53.68	32.72	.82
1958.1	92.9(90.6)	87.7	65.26	72.92	79.28	81.92	82.73	80.10	74.59	67.20	55.61	34.81	5.48
1831.9	92.9(90.3)	87.3	63.99	71.72	78.22	81.50	82.56	79.84	75.20	68.10	56.87	38.54	9.91
1732.1	92.9(90.2)	87.2	65.39	71.77	77.86	81.49	82.35	79.76	74.93	69.06	57.78	39.77	12.53
1655.1	92.9(90.2)	87.1	65.14	71.72	77.99	81.12	82.37	79.70	74.20	69.58	58.66	41.28	15.04
1596.3	92.7(90.3)	87.0	65.96	71.76	78.68	81.08	82.10	79.51	74.47	69.39	58.82	41.85	16.51
1552.9	92.8(90.0)	87.1	66.09	72.40	77.96	81.10	82.11	79.57	74.93	68.46	58.68	42.68	17.74
1523.1	92.1(89.3)	86.6	65.99	72.10	77.51	80.57	81.36	78.86	74.17	67.76	57.92	42.17	17.85
1505.7	92.1(89.1)	86.4	66.09	72.04	77.70	80.31	81.38	78.94	74.34	67.99	58.23	42.62	18.55
1500.0	92.0(89.2)	86.2	65.44	71.88	77.27	80.28	81.37	78.66	73.94	67.59	57.85	42.29	18.29
1505.7	91.7(88.9)	85.9	64.82	71.33	76.88	79.75	81.05	78.47	73.83	67.46	57.70	42.09	18.02
1523.1	91.1(88.4)	85.4	64.41	71.10	76.32	79.98	80.76	78.17	73.14	67.23	56.99	41.17	16.92
1552.9	90.4(87.6)	84.8	63.99	70.27	76.26	78.55	79.71	77.59	72.85	66.37	56.48	40.39	15.44
1596.3	89.4(87.1)	84.3	62.86	68.87	75.17	78.44	79.27	77.24	72.32	65.74	55.57	39.21	13.46
1655.1	88.9(86.3)	83.5	61.14	67.48	74.26	77.58	78.67	76.40	70.95	64.25	53.81	36.95	10.79

RUN NUMBER	=	110.00 —(706.00)
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (R)	=	533.000
SECONDARY TEMPERATURE (R)	=	526.000
PRIMARY PRESSURE RATIO	=	1.000
AREA RATIO	=	4.454
VELOCITY RATIO	=	.347
PRIMARY VELOCITY (FT/SEC)	=	801.830
MASS FLOW RATIO	=	1.631
PRIMARY MASS FLOW (LB/SEC)	=	.222
THRUST (LBS)	=	9.611
ENVIRONMENTAL TEMPERATURE (R)	=	522.500
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	=	50.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	=	.004
INSTRUMENTATION NOISE FLOOR (DB)	=	44.574

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.86757E-02	115.9
500	1.04029E-03	100.2
1000	4.16997E-03	106.2
2000	1.30298E-02	111.1
4000	1.02608E-02	110.1
8000	6.43157E-03	108.1
16000	2.57492E-03	104.1
31500	1.18827E-03	100.7

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	146.0
20000	149.1
40000	152.1
80000	155.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	78.7	86.8	88.3	83.7	75.4	66.0	65.5	91.2
20.0	78.3	85.1	89.1	85.2	77.7	67.4	65.8	92.1
25.0	76.9	83.6	88.7	85.8	80.1	70.5	66.9	91.8
30.0	76.0	82.4	87.6	85.5	81.2	73.3	68.5	91.1
35.0	74.7	80.6	86.1	85.4	82.5	75.7	70.4	90.5
40.0	72.5	78.7	84.6	84.3	82.5	77.4	72.4	89.6
45.0	71.3	77.3	83.6	83.4	82.3	78.1	73.4	88.9
50.0	70.1	76.1	81.7	82.1	81.2	77.6	73.7	87.6
55.0	69.4	74.6	80.6	81.0	80.3	77.0	73.4	86.6
60.0	68.8	73.8	79.6	80.0	79.4	76.3	72.7	85.7
65.0	68.5	73.0	79.0	79.4	78.7	75.8	72.7	85.2
70.0	67.8	73.2	78.1	78.7	78.1	75.1	72.0	84.4
75.0	67.5	72.5	77.3	78.0	77.3	74.3	71.6	83.7
80.0	67.2	72.1	76.8	77.7	76.8	73.9	71.0	83.3
85.0	66.8	71.4	76.3	76.9	76.2	73.4	70.9	82.7
90.0	65.9	71.8	76.0	76.6	75.8	73.0	70.5	82.4
95.0	66.0	71.8	75.2	75.8	75.1	72.3	70.1	81.7
100.0	65.6	70.9	74.9	75.1	74.7	72.0	69.8	81.3
105.0	65.3	70.5	74.3	74.7	74.1	71.4	69.3	80.8
110.0	64.3	70.8	74.0	74.3	73.7	70.9	68.9	80.4
115.0	63.5	69.3	73.3	73.7	73.2	70.8	68.9	79.8

MODEL THRUST = 9.611 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 11.0	21.9	43.8	87.7	175.4	350.7	698.5	1381.0	2760.1	5480.3	10960.5
5795.6	60.3	59.3	69.6	57.22	63.28	66.74	61.96	53.30	42.72	30.35	29.17	10.71	-29.30	-82.28
4385.7	65.2	64.0	72.9	59.23	66.04	69.94	66.02	58.19	47.00	43.12	34.69	19.99	-6.48	-61.78
3549.3	68.8	67.2	74.5	59.59	66.36	71.46	68.42	62.48	52.16	46.82	39.42	26.95	-4.94	-32.27
3000.0	71.4	69.7	75.3	60.24	66.60	71.76	69.62	65.06	56.59	50.24	43.53	32.52	13.47	-10.67
2613.2	74.0	72.0	75.8	60.65	65.96	71.49	70.73	67.59	60.36	53.68	47.44	37.47	20.48	-7.75
2333.4	75.5	73.2	75.4	55.90	65.03	71.01	70.64	68.65	63.12	56.89	51.00	41.77	24.29	.78
2121.9	76.6	73.9	75.9	58.55	64.56	70.75	70.57	69.31	64.68	58.91	53.28	44.42	30.27	6.81
1958.1	76.7	73.8	75.3	57.96	63.96	69.48	69.93	68.86	64.94	59.99	54.57	46.35	32.47	10.98
1831.2	76.8	73.6	75.0	57.91	63.13	69.10	69.48	68.61	64.90	60.42	55.15	47.27	34.47	13.81
1732.1	76.6	73.3	74.5	57.79	62.41	68.42	68.48	68.23	64.75	60.25	55.11	47.40	35.22	15.51
1655.1	76.7	73.3	74.4	57.82	63.31	68.35	68.71	67.91	64.67	60.71	55.66	48.24	36.39	17.42
1596.1	76.6	72.9	74.0	57.67	62.87	67.40	68.20	67.40	64.31	60.37	55.40	48.14	36.60	18.20
1552.9	76.0	72.4	73.5	57.40	62.60	67.21	67.93	67.04	63.80	60.23	55.30	48.16	36.89	18.87
1523.1	75.7	72.1	73.3	57.25	62.19	66.99	67.75	66.73	63.50	59.86	54.97	47.91	36.76	19.07
1489.7	75.6	71.7	72.8	57.02	61.62	66.67	67.44	66.26	63.17	59.89	54.99	47.97	36.92	19.39
1508.6	75.6	71.3	72.5	56.12	62.04	66.19	66.78	65.88	62.75	59.51	54.67	47.67	36.89	19.18
1505.7	76.6	70.8	71.8	56.21	61.19	65.33	66.49	65.18	62.07	59.17	54.26	47.24	36.18	18.44
1523.1	73.8	70.1	71.3	55.73	61.02	66.07	65.17	64.63	61.43	58.61	53.73	46.66	35.52	17.82
1552.9	73.1	69.3	70.4	55.17	60.60	64.21	64.58	63.87	60.91	58.01	53.09	45.95	34.66	16.66
1594.3	72.3	68.5	70.0	53.84	59.68	63.68	63.98	63.25	60.09	57.31	52.33	44.97	33.53	15.13
1655.1	71.7	67.9	69.1	52.85	58.68	62.65	63.06	62.61	59.66	56.96	51.98	44.69	32.63	13.64

RUN NUMBER	=	111.00 (729.00)
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (R)	=	521.000
SECONDARY TEMPERATURE (R)	=	524.000
PRIMARY PRESSURE RATIO	=	1.640
AREA RATIO	=	4.896
VELOCITY RATIO	=	.694
PRIMARY VELOCITY (FT/SEC)	=	891.438
MASS FLOW RATIO	=	3.749
PRIMARY MASS FLOW (LB/SEC)	=	.220
THRUST (LBS)	=	22.173
ENVIRONMENTAL TEMPERATURE (R)	=	522.500
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	=	58.000
CALIBRATION FACTOR INV TO DY/SQ CM	=	.008
INSTRUMENTATION NOISE FLOOR (DB)	=	47.576

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.593288E-02	118.8
500	4.957606E-03	107.0
1000	1.438835E-02	111.6
2000	2.375756E-02	113.8
4000	1.705736E-02	112.3
8000	9.795566E-03	109.9
16000	4.047006E-03	106.1
31500	1.934306E-03	102.9

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	145.3
20000	148.4
40000	151.4
80000	154.4

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
19.0	81.2	89.0	88.4	81.4	73.6	68.4	67.1	92.8
20.0	85.7	90.0	89.7	83.6	76.0	70.3	68.5	94.1
25.0	84.9	89.0	89.8	85.6	78.6	72.3	69.9	94.0
30.0	83.3	87.6	89.5	86.3	80.9	74.6	71.5	93.6
35.0	81.5	86.2	88.5	86.6	82.5	76.9	72.8	93.0
40.0	80.1	84.3	87.6	86.3	83.5	78.6	74.1	92.3
45.0	77.8	82.9	86.3	85.6	83.2	78.7	74.7	91.3
50.0	77.1	81.7	85.5	84.9	82.6	78.5	74.9	90.6
55.0	75.8	80.7	84.5	83.8	82.3	78.5	74.9	89.8
60.0	75.3	80.2	83.7	83.5	81.7	78.0	74.6	89.2
65.0	75.3	79.5	82.9	82.7	81.0	77.7	74.6	88.6
70.0	74.3	78.9	82.3	82.5	81.0	77.4	74.1	88.2
75.0	74.3	78.3	81.8	81.9	80.4	77.1	73.9	87.7
80.0	73.8	77.8	81.2	81.4	79.8	76.4	73.5	87.1
85.0	73.7	77.4	80.4	80.6	79.3	76.3	73.3	86.5
90.0	72.6	77.0	80.3	80.3	78.9	75.7	73.0	86.2
95.0	72.4	76.4	79.6	79.7	78.5	75.2	72.5	85.6
100.0	72.2	76.2	79.1	79.2	77.9	74.9	72.3	85.2
105.0	71.4	75.5	78.6	78.7	77.5	74.6	72.2	84.7
110.0	71.2	75.0	78.2	78.4	77.2	74.1	71.9	84.4
115.0	69.8	74.5	77.2	77.9	76.6	73.9	71.8	83.8

MODEL THRUST = 22.173 FULL SCALE THRUST = 20000.000

L.	PROB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 16.6	33.3	66.6	133.2	266.4	532.7	1064.8	2097.7	4192.8	8324.1	16648.1
5709.6	58.2(57.6)	67.5	56.03	64.45	63.10	55.88	47.36	40.04	33.70	19.06	-7.62	-55.49	-134.33
4385.7	63.9(63.1)	71.3	62.92	67.28	66.91	60.57	52.42	45.16	39.55	27.74	6.42	-30.07	-90.53
3549.9	68.0(67.0)	73.1	63.97	68.14	68.89	64.51	57.02	49.60	43.98	33.85	14.35	-14.09	-61.58
3000.0	70.8(69.5)	74.0	63.90	68.11	70.03	66.71	60.87	53.65	47.75	38.72	23.46	-2.72	-45.02
2615.2	73.1(71.6)	74.6	63.27	67.96	70.25	68.18	63.78	57.17	50.78	42.53	28.84	5.44	-31.63
2333.4	74.9(73.3)	74.9	62.88	66.99	70.31	68.48	65.78	60.09	53.53	45.84	33.31	17.24	-21.29
2121.3	75.7(73.7)	74.7	61.33	65.44	69.81	69.03	66.41	61.84	55.22	47.96	36.29	16.94	-13.89
1958.1	76.0(73.9)	74.7	61.33	64.81	69.76	69.02	66.49	61.70	56.36	49.42	38.42	20.29	-4.36
1831.2	76.0(74.1)	74.4	60.66	63.54	69.33	68.57	66.76	62.36	57.12	50.44	39.96	22.81	-4.18
1732.1	76.5(74.1)	74.4	60.68	63.58	69.04	68.78	66.68	62.42	57.43	50.95	40.87	24.49	-1.21
1655.1	76.5(73.9)	74.1	61.08	63.23	68.63	68.32	66.45	62.40	57.93	51.61	41.84	26.04	1.37
1594.3	76.0(73.6)	73.8	60.32	62.96	68.38	68.48	66.70	62.57	57.98	51.69	42.15	26.82	2.91
1542.9	76.4(73.7)	73.8	60.58	64.62	68.09	68.18	66.39	62.58	57.84	51.72	42.37	27.37	4.03
1503.1	76.0(73.3)	73.6	60.25	64.29	67.68	67.73	65.96	62.44	57.81	51.74	42.42	27.75	4.88
1506.7	74.7(72.9)	72.9	60.78	63.96	66.95	67.03	65.56	62.01	57.68	51.66	42.58	27.97	5.16
1508.8	75.3(72.5)	72.6	59.17	61.59	66.83	66.77	65.21	61.58	57.47	51.45	42.32	27.73	5.08
1505.7	74.8(71.9)	72.0	58.98	62.96	66.16	66.15	64.72	60.89	56.89	50.87	41.71	27.08	4.35
1523.1	74.2(71.4)	71.5	58.42	62.86	65.55	65.59	64.08	60.52	56.43	50.57	41.38	26.54	3.82
1552.0	73.6(70.7)	70.8	57.45	61.76	64.86	64.84	63.51	59.99	56.28	50.16	40.81	25.81	2.47
1594.3	72.9(70.1)	70.2	57.23	61.09	64.23	64.38	62.96	59.24	55.69	49.48	39.96	24.62	.71
1655.1	72.0(69.1)	69.2	55.57	60.73	62.95	63.69	62.02	58.76	55.14	48.81	39.05	23.24	-1.48

RUN NUMBER	=	112.00 (803.00)
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (R)	=	525.000
SECONDARY TEMPERATURE (R)	=	525.000
PRIMARY PRESSURE RATIO	=	1.600
AREA RATIO	=	4.456
VELOCITY RATIO	=	1.000
PRIMARY VELOCITY (FT/SEC)	=	893.542
MASS FLOW RATIO	=	5.497
PRIMARY MASS FLOW (LB/SEC)	=	.220
THRUST (LBS)	=	39.664
ENVIRONMENTAL TEMPERATURE (R)	=	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	=	45.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	=	.032
INSTRUMENTATION NOISE FLOOR (DB)	=	59.573

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.14003E+00	133.3
500	5.37137E-02	117.3
1000	2.69870E-01	124.3
2000	6.10826E-01	127.9
4000	4.74634E-01	126.8
8000	3.70044E-01	125.7
16000	2.18059E-01	123.4
31500	1.42879E-01	121.5

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.3
20000	160.3
40000	163.3
80000	166.4

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	95.9	101.6	101.1	94.3	89.2	86.2	86.8	105.5
20.0	95.9	102.2	102.1	95.8	91.7	87.9	87.9	106.4
25.0	94.8	102.2	103.1	97.7	94.1	90.3	89.5	107.0
30.0	93.7	101.1	104.0	99.4	95.6	91.7	90.3	107.4
35.0	92.2	100.0	104.2	100.5	97.3	93.6	91.7	107.7
40.0	90.0	97.9	103.0	100.4	98.4	94.9	92.7	107.8
45.0	87.7	95.6	100.8	100.0	98.9	95.8	93.1	108.0
50.0	86.5	94.1	99.4	99.1	98.2	95.9	93.5	105.1
55.0	85.5	92.6	98.3	98.2	97.9	95.6	93.2	104.4
60.0	84.2	91.5	97.5	97.8	97.6	95.2	93.1	103.9
65.0	84.7	91.1	96.6	97.5	97.0	95.1	93.1	103.6
70.0	84.6	90.8	95.8	96.9	96.7	94.7	92.8	103.8
75.0	84.3	90.1	95.2	96.6	96.2	94.3	92.6	102.5
80.0	83.5	89.9	94.7	96.1	95.6	93.3	91.7	101.9
85.0	83.3	89.5	94.2	96.0	95.6	94.0	92.2	101.9
90.0	83.0	89.6	93.9	95.7	95.1	93.3	92.0	101.5
95.0	82.8	88.8	93.4	95.2	95.0	93.3	91.8	101.2
100.0	81.9	88.7	93.0	94.8	94.3	92.6	91.2	100.7
105.0	81.9	87.9	92.6	94.8	94.1	92.3	90.9	100.5
110.0	80.6	87.2	92.1	94.6	93.6	91.9	90.6	100.1
115.0	80.3	85.8	91.5	93.9	93.4	91.5	90.2	99.5

MODEL THRUST = 39.664 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 22.3	44.5	89.1	178.1	356.3	712.5	1402.8	2805.6	5566.4	11133.2	22296.5
5795.4	73.7(73.3)	77.6	68.22	73.92	73.26	66.01	59.71	53.62	47.01	28.03	-6.17	-65.76	-160.62
4385.7	78.6(78.0)	80.9	70.66	76.95	76.73	70.13	65.11	58.95	53.46	38.37	11.74	-34.66	-106.58
3549.3	82.6(81.7)	83.4	71.33	78.80	79.56	73.95	69.59	63.98	58.66	45.88	23.77	-13.89	-73.15
3000.0	85.4(84.6)	85.2	71.75	79.14	81.96	77.10	72.75	67.22	62.09	50.81	31.66	-.63	-51.18
2615.2	88.0(86.8)	86.6	71.42	79.26	83.35	79.50	75.77	70.60	65.44	55.24	38.16	9.62	-34.83
2333.6	89.6(88.2)	86.8	70.19	78.07	83.15	80.40	77.87	73.18	68.04	58.61	43.65	17.26	-22.73
2121.3	90.6(89.0)	86.6	68.74	76.68	81.80	80.87	79.27	75.08	69.68	60.83	46.41	22.70	-13.92
1958.1	91.0(89.1)	86.3	68.22	75.86	81.06	80.61	79.36	76.01	71.17	62.77	49.23	27.11	-6.93
1831.7	91.2(89.2)	86.1	67.83	74.87	80.58	80.36	79.63	76.39	71.67	63.62	50.76	29.85	-2.14
1732.1	91.5(89.4)	86.1	66.98	74.34	80.25	80.46	79.88	76.58	72.25	64.48	52.16	32.24	1.79
1655.1	91.6(89.4)	86.1	67.87	74.36	79.76	80.52	79.75	76.94	72.86	65.30	53.39	34.23	5.80
1594.3	91.6(89.3)	85.9	68.10	74.28	79.29	80.27	79.71	76.92	72.99	65.59	53.99	35.41	7.10
1592.9	91.5(89.2)	85.8	68.01	73.92	78.92	80.24	79.52	76.76	73.16	65.86	54.51	36.35	8.74
1573.1	90.9(88.6)	85.3	67.39	73.85	78.68	79.92	79.09	75.92	72.42	65.22	54.02	36.15	9.08
1569.7	91.2(88.8)	85.4	67.30	73.47	78.17	79.89	79.14	76.72	73.09	65.93	54.82	37.12	10.25
1560.0	90.9(88.6)	85.0	67.04	73.70	77.91	79.49	78.78	76.11	72.89	65.76	54.68	37.04	10.26
1585.7	90.6(88.2)	84.7	66.81	72.81	77.37	79.03	78.57	76.03	72.67	65.52	54.62	36.71	9.85
1523.1	89.9(87.6)	84.0	65.88	72.66	76.87	78.57	77.73	75.08	71.98	64.79	53.59	35.71	8.97
1552.9	89.6(87.0)	83.7	65.71	71.85	76.33	78.43	77.35	74.79	71.63	64.15	52.79	34.63	7.81
1594.9	88.7(86.3)	83.0	64.17	70.68	75.58	77.99	76.83	74.68	70.83	63.43	51.84	33.25	6.95
1699.1	87.9(85.5)	82.1	63.94	68.99	74.67	76.92	76.12	73.32	69.98	62.62	50.51	31.35	2.11

RUN NUMBER	=	114.00 (70X.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (R)	=	527.000
SECONDARY TEMPERATURE (R)	=	523.000
PRIMARY PRESSURE RATIO	=	1.600
AREA RATIO	=	9.788
VELOCITY RATIO	=	.345
PRIMARY VELOCITY (FT/SEC)	=	895.242
MASS FLOW RATIO	=	3.302
PRIMARY MASS FLOW (LB/SEC)	=	.222
THRUST (LBS)	=	13.183
ENVIRONMENTAL TEMPERATURE (R)	=	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	=	45.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	=	.004
INSTRUMENTATION NOISE FLOOR (DB)	=	42.949

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.86875E-02	114.6
500	1.44167E-03	101.6
1000	3.74986E-03	105.7
2000	1.05557E-02	110.2
4000	6.76719E-03	108.3
8000	3.51311E-03	105.5
16000	1.60060E-03	102.0
31500	1.05936E-03	100.3

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	143.4
20000	146.4
40000	149.4
80000	152.4

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	78.8	84.0	86.8	86.2	80.6	83.2	85.8	89.6
20.0	78.9	83.5	87.0	81.6	72.5	64.3	66.3	89.9
25.0	77.7	82.9	86.9	83.0	75.0	66.4	66.8	89.9
30.0	76.3	81.4	86.4	83.7	77.8	69.4	67.7	89.7
35.0	74.7	80.2	85.1	83.3	79.2	72.6	69.3	88.9
40.0	73.7	78.2	84.0	82.5	80.1	74.6	71.0	88.2
45.0	72.0	76.8	82.7	81.8	79.5	75.7	72.5	87.4
50.0	72.3	76.5	81.6	80.7	78.9	75.7	73.0	86.6
55.0	72.5	75.3	80.4	79.8	78.1	75.1	72.8	85.7
60.0	71.5	74.6	79.5	78.7	77.1	74.4	72.2	84.8
65.0	71.2	74.3	79.1	78.3	76.6	73.8	71.9	84.4
70.0	70.4	73.8	78.8	77.4	75.8	73.5	71.9	83.6
75.0	69.9	72.9	77.3	76.8	75.0	72.7	71.2	82.9
80.0	70.1	72.4	76.5	76.2	74.5	72.2	70.9	82.3
85.0	69.5	71.7	75.9	75.7	73.9	71.6	70.3	81.7
90.0	68.6	71.9	75.5	74.8	73.2	71.0	70.1	81.2
95.0	68.6	71.6	75.5	74.5	72.8	70.6	69.8	81.0
100.0	67.8	70.8	75.4	74.2	72.5	70.2	69.5	80.6
105.0	67.6	70.6	74.9	73.7	71.7	69.6	69.1	80.1
110.0	66.2	69.1	73.6	72.8	71.2	69.2	68.9	79.2
115.0	65.5	68.9	73.1	72.2	70.7	68.9	68.6	78.8

MODEL THRUST = 13.183 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 12.8	25.7	51.3	102.7	205.4	410.8	808.7	1617.5	3209.3	6410.6	12837.2
5795.6	56.7(55.6)	66.7	55.89	61.07	63.81	57.12	65.94	38.15	37.09	25.44	6.28	-34.58	-100.63
4385.7	61.4(60.1)	69.3	58.42	62.99	66.48	60.98	51.42	42.17	41.42	31.87	15.07	-15.81	-85.72
3549.3	65.2(63.7)	71.2	59.06	64.99	68.23	64.22	55.92	46.40	44.56	36.26	22.09	-2.82	-64.43
3000.0	68.2(66.5)	72.6	59.12	64.72	69.23	66.37	60.25	51.05	47.56	40.08	27.64	6.12	-29.52
2615.2	70.7(68.7)	72.8	58.72	64.21	69.12	67.17	62.88	55.62	50.72	43.82	32.59	13.44	-1.81
2333.6	72.7(70.4)	73.1	58.72	63.25	68.95	67.46	64.82	58.72	53.71	47.22	36.88	19.47	-8.91
2121.3	73.7(71.0)	73.1	58.47	62.66	68.54	67.53	65.03	60.73	56.18	50.01	40.34	24.24	-1.86
1950.1	74.3(71.3)	73.0	58.86	63.05	68.12	67.19	65.21	61.44	57.57	51.64	42.48	27.39	3.69
1831.2	74.5(71.3)	72.6	59.63	62.38	67.55	66.81	64.93	61.51	58.05	52.32	43.54	29.25	6.33
1732.1	74.3(71.0)	72.2	59.16	62.16	67.05	66.22	64.46	61.38	58.07	52.63	43.98	30.28	8.44
1655.1	74.3(70.9)	72.2	59.17	62.29	67.07	66.21	64.37	61.16	58.24	52.77	44.56	31.34	10.34
1596.3	74.0(70.7)	71.8	58.78	62.11	66.26	65.69	63.94	61.21	58.02	53.23	45.21	32.39	11.99
1552.9	73.9(70.2)	71.3	58.46	61.47	65.84	65.12	63.31	60.68	58.21	52.89	45.88	32.42	12.52
1523.1	73.6(69.9)	70.9	58.99	61.11	65.21	64.97	62.99	60.36	58.14	52.86	45.87	32.66	13.49
1505.7	73.1(69.3)	70.6	58.36	60.56	64.47	64.45	62.52	59.82	57.58	52.33	45.59	32.38	12.92
1500.0	72.6(68.7)	69.9	57.62	60.79	64.16	63.58	61.83	59.25	57.02	52.18	44.46	32.28	12.88
1505.7	72.2(68.3)	69.7	57.64	60.43	64.25	63.27	61.62	58.82	57.07	51.82	44.08	31.78	12.48
1523.1	71.9(67.9)	69.2	56.53	59.69	64.07	62.83	61.03	58.38	56.73	51.46	43.67	31.26	11.69
1552.9	71.6(67.1)	68.6	56.12	59.14	63.42	62.14	60.81	57.59	56.09	50.77	42.89	30.38	10.48
1596.3	70.1(66.1)	67.4	54.48	57.65	61.88	61.04	59.38	56.87	55.58	50.19	42.17	29.31	8.94
1659.1	69.2(65.6)	66.6	53.47	56.91	61.12	59.11	58.58	56.26	54.97	49.49	41.29	28.87	7.86

RUN NUMBER	
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 115.00 (RD).00)
PRIMARY TEMPERATURE (R)	= .0000
SECONDARY TEMPERATURE (R)	= 531.000
PRIMARY PRESSURE RATIO	= 532.000
AREA RATIO	= 1.000
VELOCITY RATIO	= 9.788
PRIMARY VELOCITY (FT/SEC)	= .0496
MASS FLOW RATIO	= 898.633
PRIMARY MASS FLOW (LB/SEC)	= 7.153
THRUST (LBS)	= .217
ENVIRONMENTAL TEMPERATURE (R)	= 36.167
ENVIRONMENTAL PRESSURE (IN.HG)	= 522.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.700
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 65.000
INSTRUMENTATION NOISE FLOOR (DB)	= .010
	= 49.529

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.37285E-01	121.4
500	1.49733E-02	111.8
1000	2.65344E-02	114.2
2000	3.82352E-02	115.8
4000	3.01583E-02	114.8
8000	1.67115E-02	112.2
16000	7.39977E-03	108.7
31500	3.27282E-03	105.1

OVERALL SOUND POWER LEVEL*SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	145.8
20000	148.8
40000	151.9
80000	154.8

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE	OCTAVE BAND SOUND PRESSURE LEVELS							OVER
(DEG)	500	1000	2000	4000	8000	16000	31500	ALL
15.0	90.0	90.7	87.6	82.0	75.1	70.8	68.0	94.7
20.0	89.6	90.9	89.0	83.0	77.0	72.1	69.6	95.1
25.0	88.1	90.9	90.1	85.4	79.8	74.7	71.2	95.3
30.0	87.5	89.5	90.2	86.7	81.8	76.6	73.1	95.8
35.0	86.3	88.6	90.0	87.5	83.6	78.7	74.9	96.8
40.0	84.8	87.1	89.3	87.3	83.9	79.5	76.1	96.1
45.0	82.9	86.9	89.5	87.9	84.8	80.8	76.8	96.3
50.0	82.6	85.5	88.2	87.8	84.8	80.9	76.8	93.6
55.0	81.9	84.4	87.5	86.9	84.6	81.2	77.1	92.9
60.0	81.3	84.3	86.7	86.1	84.2	80.8	77.1	92.3
65.0	80.4	83.7	86.5	86.2	84.3	80.6	77.0	92.2
70.0	79.6	82.5	85.6	85.5	83.6	80.3	76.6	91.3
75.0	79.1	82.1	84.7	85.5	83.0	79.7	76.3	90.9
80.0	78.9	81.7	84.2	85.2	82.7	79.5	76.1	90.6
85.0	78.2	81.0	83.6	84.2	82.4	79.1	75.5	89.9
90.0	77.4	80.5	83.0	83.3	81.9	78.8	75.5	89.3
95.0	77.1	80.0	82.7	82.9	81.2	78.0	74.9	88.8
100.0	76.4	79.6	82.3	82.7	81.0	77.9	74.9	88.5
105.0	75.7	78.8	82.1	82.3	80.2	77.4	74.3	88.0
110.0	74.7	78.0	81.1	81.6	80.1	77.3	74.2	87.4
115.0	74.3	77.5	80.6	81.2	79.9	76.7	73.6	87.0

MODEL THRUST = 36.167 FULL SCALE THRUST = 20000.000

L*	PNDB*	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS									
			21.3	42.5	85.0	170.1	340.2	680.4	1339.5	2679.0	5315.6	10631.1	21262.2
5795.6	58.8(58.4)	67.3	62.70	63.38	60.21	54.15	46.16	38.95	29.37	11.16	-21.74	-79.32	-171.57
4385.7	63.3(62.7)	70.1	64.72	66.06	64.06	57.69	50.88	43.80	36.15	21.64	-3.99	-64.29	-118.83
3549.3	67.7(67.0)	72.2	65.10	67.90	66.98	62.02	55.61	48.91	41.19	28.86	7.55	-28.88	-86.53
3006.0	70.9(69.9)	73.3	65.92	67.93	66.89	66.49	59.39	52.72	45.70	34.92	16.35	-14.91	-66.11
2615.2	73.3(72.2)	74.3	65.91	68.23	69.53	66.92	62.28	56.30	49.39	39.52	23.03	-4.68	-47.87
2333.4	74.8(73.4)	74.5	65.40	67.72	69.88	67.48	63.89	58.33	52.16	43.03	27.99	3.01	-35.92
2121.3	76.5(75.0)	75.5	64.39	68.32	70.89	69.20	65.61	60.53	54.66	45.49	31.55	8.57	-27.09
1954.1	77.2(75.6)	75.5	64.74	67.66	70.34	69.90	66.44	61.62	55.88	46.94	33.84	12.39	-20.76
1831.2	77.8(76.1)	75.6	64.68	67.18	70.18	69.69	66.77	62.49	56.22	47.62	35.07	15.72	-15.48
1732.1	78.0(76.2)	75.3	64.69	67.53	69.91	69.16	66.89	62.60	56.90	48.35	37.42	18.18	-11.57
1655.1	78.4(76.6)	75.5	63.97	67.32	70.07	69.70	67.41	62.88	57.34	50.00	38.46	19.87	-8.61
1590.3	78.2(76.2)	75.0	63.50	66.44	69.26	69.30	67.11	63.01	57.39	50.16	38.92	20.89	-6.44
1532.9	78.0(76.0)	74.4	63.27	66.26	68.78	69.52	66.77	62.67	57.45	50.38	39.37	21.74	-5.17
1523.1	77.9(75.8)	74.6	63.76	66.66	68.68	69.40	66.59	62.61	57.44	50.46	39.60	22.25	-4.29
1505.7	77.3(75.3)	74.1	62.62	65.65	67.79	68.56	66.41	62.39	57.00	50.05	39.29	22.10	-4.69
1508.0	76.9(74.7)	73.5	61.87	64.97	67.62	67.62	65.93	62.08	57.06	50.11	39.37	22.24	-3.96
1505.7	76.2(74.1)	72.9	61.56	64.60	67.05	67.14	65.21	61.23	56.36	49.61	38.64	21.66	-4.72
1523.1	75.9(73.7)	72.6	60.76	63.88	66.46	66.90	64.91	61.04	56.23	49.23	38.37	21.83	-5.43
1542.9	75.1(72.9)	71.9	59.89	62.95	66.27	66.29	63.97	60.36	55.66	48.38	37.37	19.75	-7.17
1496.9	74.6(72.3)	71.0	59.67	61.88	65.80	65.14	63.61	59.82	54.99	47.41	36.47	18.53	-9.05
1459.1	73.6(71.4)	70.2	57.99	61.89	65.17	64.69	62.60	58.84	53.98	46.61	35.03	16.58	-11.99

RUN NUMBER	= 116.000
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 547.000
SECONDARY TEMPERATURE (R)	= 520.000
PRIMARY PRESSURE RATIO	= 1.680
AREA RATIO	= 0.744
VELOCITY RATIO	= 1.013
PRIMARY VELOCITY (FT/SEC)	= 870.090
MASS FLOW RATIO	= 11.031
PRIMARY PASS FLOW (LB/SEC)	= .217
THRUST (LBS)	= 71.914
ENVIRONMENTAL TEMPERATURE (R)	= 516.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.200
ENVIRONMENTAL HUMIDITY (PER CENT)	= 39.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .035
INSTRUMENTATION NOISE FLOOR (DB)	= 60.572

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.76065E+00	132.5
500	1.58050E-01	122.0
1000	3.27842E-01	125.2
2000	4.14278E-01	126.2
4000	3.50875E-01	125.5
8000	2.74503E-01	124.4
16000	1.53745E-01	121.9
31500	8.13512E-02	119.1

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	153.9
20000	156.9
40000	159.9
80000	162.9

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	101.8	102.3	97.8	93.6	89.6	85.4	82.0	106.2
20.0	101.0	103.0	99.5	94.1	90.1	86.5	83.5	106.6
25.0	100.0	102.7	100.8	96.6	93.2	88.8	85.6	106.8
30.0	98.5	102.0	101.3	96.4	95.1	90.7	87.9	106.8
35.0	96.4	100.3	101.3	99.2	96.4	92.3	88.8	106.4
40.0	94.6	98.7	100.6	99.3	96.9	93.1	89.7	105.8
45.0	93.0	96.8	99.7	99.0	97.5	94.3	90.9	105.3
50.0	91.3	95.8	98.7	98.5	97.5	94.5	91.2	104.7
55.0	90.2	94.5	97.6	97.8	97.1	94.4	91.3	103.9
60.0	89.2	93.7	96.5	96.7	96.2	94.1	91.4	103.1
65.0	89.2	93.2	96.0	96.3	95.9	93.7	91.2	102.7
70.0	87.8	92.2	95.3	95.7	95.4	93.3	90.9	102.1
75.0	88.2	91.9	94.9	95.4	95.1	93.0	90.3	101.8
80.0	87.1	90.9	93.9	94.8	94.3	92.5	90.1	101.0
85.0	87.2	90.6	93.5	94.2	93.7	91.7	89.4	100.5
90.0	86.0	90.2	93.1	93.9	93.6	91.3	88.5	100.1
95.0	85.5	89.4	92.5	93.3	93.1	91.0	88.6	99.6
100.0	85.1	88.9	92.2	92.9	92.6	90.8	88.6	99.3
105.0	84.4	88.3	91.7	92.2	92.5	90.8	88.5	98.9
110.0	84.0	88.0	91.6	92.2	92.0	90.3	88.0	98.6
115.0	82.8	87.5	90.8	91.7	91.9	90.1	87.6	98.2

MODEL THRUST = 71.914 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 30.0	60.0	119.9	239.9	479.7	959.4	1888.9	3777.7	7495.5	14991.0	29982.0
5795.6	70.6(70.5)	75.7	71.47	71.92	67.20	62.34	56.57	47.77	34.16	9.47	-34.14	-107.73	-220.19
4386.7	75.1(74.8)	78.5	73.10	75.09	71.65	65.49	60.17	53.68	42.36	22.95	-10.80	-67.20	-153.04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3000.0	82.5(82.0)	82.0	73.97	77.40	76.62	73.32	69.12	[illegible]	[illegible]	[illegible]	15.41	-24.07	-83.74
2615.2	84.7(84.0)	82.6	73.07	76.93	77.78	75.39	71.82	65.68	57.51	44.72	23.39	-11.46	-63.85
2333.6	86.0(85.1)	83.0	72.25	76.35	78.13	76.52	73.43	67.83	60.33	48.60	29.24	-2.18	-49.95
2121.3	87.0(86.0)	83.2	71.65	75.27	78.03	77.14	74.93	70.09	62.91	51.97	34.10	5.27	-37.80
1958.1	87.7(86.6)	83.2	70.47	74.92	77.81	77.32	75.75	71.16	64.44	54.13	37.40	10.56	-29.42
1831.2	88.0(86.7)	83.0	69.98	74.19	77.25	77.24	75.94	71.58	65.50	55.64	39.81	14.51	-23.03
1732.[illegible]	87.9(86.5)	82.6	69.46	73.80	76.85	76.89	75.61	72.09	66.42	56.94	41.79	17.70	-19.01
1655.1	88.2(86.7)	82.7	69.86	73.81	76.57	76.66	75.77	72.28	[illegible]	57.64	43.06	19.89	-16.37
1596.3	88.0(86.4)	82.6	68.72	73.10	76.20	76.41	75.57	72.25	66.97	57.99	43.80	21.36	-11.78
1552.9	87.9(86.3)	82.3	69.39	73.05	75.96	76.31	75.49	72.26	66.80	57.99	44.15	22.19	-10.14
1523.1	87.5(85.8)	81.7	68.48	72.71	75.15	75.94	74.92	71.92	66.82	58.12	44.44	22.89	-8.87
1505.7	87.0(85.4)	81.3	69.45	72.07	74.87	75.42	74.45	71.23	66.36	57.66	44.19	22.77	-9.67
1500.0	86.7(85.1)	81.0	67.45	71.41	74.46	75.15	74.61	70.42	65.52	56.91	43.39	22.12	-9.21
1505.7	86.2(84.6)	80.6	66.96	70.78	73.86	74.54	73.87	70.48	65.47	56.83	43.28	21.96	-9.59
1523.1	85.7(84.0)	79.9	66.42	70.22	73.43	73.98	73.23	70.21	65.32	56.62	42.96	21.39	-10.34
1552.9	85.3(83.4)	79.3	65.56	69.65	72.79	73.15	72.91	70.00	64.96	56.15	42.24	20.35	-11.98
1596.3	84.5(82.9)	78.8	64.91	68.89	72.46	72.86	72.18	69.26	64.09	55.11	40.92	18.49	-14.66
1655.1	83.8(82.2)	78.0	63.45	68.16	71.33	72.16	71.49	68.47	63.17	53.98	39.37	16.22	-17.84

RUN NUMBER	= 117 (726)
AXIAL POSITION OF PRIMARY NRT, SECONDARY, (INS,)	= 0.000
PRIMARY TEMPERATURE (R)	= 510.000
SECONDARY TEMPERATURE (R)	= 520.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 9.788
VELOCITY RATIO	= 1.160
PRIMARY VELOCITY (FT/SEC)	= 880.684
MASS FLOW RATIO	= 14.275
PRIMARY MASS FLOW (LB/SEC)	= .200
THRUST (LBS)	= 96.035
ENVIRONMENTAL TEMPERATURE (R)	= 518.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 37.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.27221E+00	138.0
500	5.28590E-01	127.2
1000	1.23210E+00	130.9
2000	1.48223E+00	131.7
4000	1.21993E+00	130.9
8000	9.90408E-01	130.0
16000	5.41674E-01	127.3
31500	2.77181E-01	124.4

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.1
20000	161.2
40000	164.2
80000	167.2

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	106.5	108.3	103.9	99.1	95.1	90.9	86.9	111.7
20.0	106.2	109.0	105.8	101.1	96.6	91.6	88.2	112.5
25.0	105.7	108.9	107.8	102.4	98.4	93.5	89.5	113.0
30.0	104.4	108.5	107.6	103.7	100.5	95.9	92.0	112.9
35.0	103.5	106.8	107.3	105.2	102.1	97.7	93.3	112.6
40.0	99.6	104.7	106.5	104.9	102.5	98.6	95.1	111.5
45.0	97.6	102.7	105.1	104.6	103.2	99.6	95.8	110.8
50.0	95.5	100.6	104.0	104.0	103.2	100.2	96.8	110.9
55.0	94.5	99.1	102.7	103.2	102.5	99.8	96.8	109.2
60.0	93.4	98.1	101.3	102.0	102.0	99.5	96.6	108.3
65.0	92.9	97.2	100.6	101.4	101.3	99.1	96.2	107.7
70.0	91.9	96.4	99.9	100.9	100.9	98.7	96.2	107.1
75.0	91.7	96.3	99.3	100.4	100.5	98.5	95.7	106.7
80.0	90.5	95.0	98.6	99.9	99.9	98.1	95.3	106.1
85.0	90.8	94.9	97.8	99.2	99.3	97.5	94.9	105.5
90.0	89.9	94.2	97.5	98.5	98.7	97.0	94.6	105.0
95.0	89.0	93.3	97.0	98.2	98.5	96.6	94.4	104.6
100.0	88.6	93.0	96.4	97.5	97.9	95.9	93.5	104.0
105.0	88.3	93.0	96.1	97.2	97.6	95.6	93.5	103.7
110.0	87.2	92.4	95.9	96.9	97.4	95.5	93.0	103.6
115.0	87.1	90.9	95.2	96.5	97.1	95.5	92.8	103.0

MODEL THRUST = 96.035 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 34.6	69.3	138.6	277.2	554.4	1108.7	2182.8	4365.6	8691.8	17323.7	34647.4
5795.6	76.2(76.2)	79.9	74.96	76.44	72.01	66.40	60.14	50.48	34.46	6.65	-42.45	-123.47	-244.79
4385.7	81.2(81.1)	83.2	77.11	79.82	76.46	71.12	64.90	55.78	43.27	21.34	-16.39	-78.43	-170.97
3569.3	85.1(84.9)	86.5	78.39	81.56	80.28	75.50	68.09	60.25	49.43	31.11	-.91	-50.79	-125.24
3000.0	87.5(87.2)	88.8	78.56	82.63	81.61	77.27	70.93	64.46	55.41	39.47	12.71	-30.68	-94.53
2615.2	89.8(89.4)	87.6	78.87	82.13	82.55	80.03	73.95	69.07	59.31	45.03	21.32	-16.89	-73.29
2333.6	90.8(90.2)	87.4	78.00	81.02	82.49	80.41	77.50	71.41	63.83	49.96	29.68	-5.94	-66.54
2121.3	91.6(90.9)	87.3	78.61	79.90	82.16	81.42	79.12	73.53	65.32	53.17	33.37	1.81	-44.49
1954.1	92.1(91.2)	87.2	78.41	78.44	81.76	81.52	79.94	75.05	67.64	56.19	37.69	8.32	-34.45
1831.2	92.2(91.2)	86.8	73.00	77.52	81.03	81.34	79.96	75.43	68.68	57.78	40.29	12.63	-27.25
1732.1	92.2(91.1)	86.4	72.38	77.21	80.58	80.84	79.99	75.86	69.37	58.90	42.18	15.86	-22.58
1654.1	92.1(90.9)	86.2	72.23	76.50	79.89	80.65	79.73	75.88	69.57	59.43	43.33	18.04	-19.75
1596.3	92.1(90.8)	85.9	71.58	76.01	79.50	80.24	79.63	75.89	70.10	60.21	44.57	20.08	-17.51
1552.9	91.9(90.6)	85.7	71.66	75.90	79.09	80.00	79.47	76.04	70.00	60.38	45.00	21.09	-13.61
1523.1	91.6(90.3)	85.3	70.55	75.03	78.60	79.67	79.12	75.83	69.83	60.35	45.29	21.79	-17.31
1504.7	91.2(89.8)	84.8	71.01	75.07	77.96	79.04	78.58	75.34	69.43	60.14	45.21	21.94	-11.68
1500.0	90.7(89.3)	84.3	70.11	74.37	77.58	78.60	78.05	74.97	69.40	59.93	45.05	21.86	-11.17
1509.7	90.3(88.9)	83.9	69.14	73.46	77.10	78.07	77.43	74.49	69.15	59.66	44.73	21.46	-14.28
1523.1	89.6(88.3)	83.1	68.70	73.07	76.35	77.31	77.08	73.69	68.65	59.48	43.42	19.92	-16.19
1542.9	89.0(87.6)	82.7	68.18	72.90	75.90	76.90	76.57	73.12	67.78	58.08	42.73	18.87	-15.83
1596.3	88.3(87.0)	82.1	68.66	72.06	75.68	76.28	76.09	72.74	66.93	57.04	41.40	16.91	-14.68
1654.1	87.8(86.3)	81.3	68.49	70.21	75.19	75.53	75.53	72.39	65.17	56.03	39.92	16.66	-22.15

RUN NUMBER	= 110.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= NONE
PRIMARY TEMPERATURE (R)	= 535.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 1284.479
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= .335
THRUST (LBS)	= 12.531
ENVIRONMENTAL TEMPERATURE (R)	= 520.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 48.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .020
INSTRUMENTATION NOISE FLOOR (DB)	= 58.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	9.06735E-01	129.6
500	2.94379E-03	104.7
1000	2.45444E-02	113.9
2000	1.53826E-01	121.9
4000	3.21605E-01	125.1
8000	2.34480E-01	123.7
16000	1.15865E-01	120.6
31500	5.38905E-02	117.3

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.6
20000	161.6
40000	164.6
80000	167.6

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	84.1	93.7	101.1	103.2	97.8	91.9	85.8	106.5
20.0	83.2	93.6	101.5	103.8	100.3	91.3	95.8	107.2
25.0	82.4	92.3	100.9	103.8	100.3	92.9	87.2	107.1
30.0	80.8	91.1	99.7	102.8	99.7	93.4	89.1	106.2
35.0	79.0	88.6	97.4	101.2	99.2	94.1	89.4	104.9
40.0	77.0	86.6	94.8	98.6	98.0	94.6	90.0	103.2
45.0	75.5	83.9	91.8	96.2	97.3	94.6	90.2	101.9
50.0	73.9	81.6	89.4	94.0	95.8	94.2	90.4	100.6
55.0	72.8	80.4	87.2	92.0	94.1	92.9	89.8	98.9
60.0	72.3	78.9	85.7	90.4	92.7	91.3	89.3	97.6
65.0	71.6	78.6	85.3	89.7	91.8	90.6	88.0	96.7
70.0	71.6	78.3	84.7	89.0	91.0	89.6	87.2	95.9
75.0	71.6	78.2	84.5	88.6	90.4	89.3	87.2	95.5
80.0	71.0	78.0	84.3	88.2	89.6	88.0	86.5	94.9
85.0	70.2	77.3	83.6	87.5	89.1	88.4	86.8	94.5
90.0	70.6	77.1	83.6	87.1	88.8	88.5	87.1	94.4
95.0	69.6	77.1	83.0	86.6	88.3	88.6	86.7	94.1
100.0	69.9	76.6	82.5	86.2	87.8	88.5	86.2	93.7
105.0	68.1	76.2	81.8	85.4	87.4	88.3	85.6	93.3
110.0	67.6	75.5	81.4	85.3	86.9	88.3	85.7	93.1
115.0	67.6	74.9	81.4	85.2	86.9	88.4	85.8	93.1

MODEL THRUST = 12.531 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL.	OCTAVE BAND SOUND PRESSURE LEVELS 12.5	25.0	50.1	100.1	200.2	400.5	788.5	1577.0	3120.9	6257.7	12515.5
5799.6	82.4(81.7)	83.5	61.67	71.03	78.33	80.35	76.41	66.88	57.49	46.09	25.32	-12.66	-77.52
4389.7	86.1(85.1)	86.7	62.92	73.35	81.21	83.36	79.48	69.50	61.28	51.92	35.48	6.81	-63.81
3569.3	88.6(87.6)	88.5	63.96	73.87	82.42	85.27	81.62	73.19	65.39	57.24	41.36	18.91	-23.93
3088.8	90.0(88.9)	89.8	63.89	74.11	82.70	85.71	82.41	75.38	68.23	60.48	44.69	27.58	-7.44
2815.2	91.1(89.1)	88.4	63.23	72.80	81.45	85.29	83.13	77.39	71.08	64.29	53.27	36.49	3.57
2333.4	91.4(89.0)	88.2	62.21	71.77	79.97	83.78	82.47	79.01	73.01	66.63	56.48	39.39	11.48
2121.3	91.7(89.0)	87.6	61.53	69.98	77.95	82.22	83.18	79.88	74.26	68.17	58.66	42.86	17.22
1958.1	91.8(88.7)	86.8	60.64	68.32	76.18	80.71	82.27	80.21	74.27	69.38	60.38	44.56	21.46
1831.2	91.7(88.8)	85.9	60.17	67.76	74.56	79.23	81.26	79.52	75.36	69.69	61.88	47.82	24.48
1732.1	90.3(88.9)	84.9	60.07	66.76	73.52	78.28	80.29	79.44	74.39	68.88	60.97	47.12	25.63
1655.1	90.2(86.6)	84.6	59.85	66.83	73.53	77.82	79.78	78.17	74.62	69.22	61.15	48.16	27.49
1596.3	89.8(86.1)	84.2	60.16	66.86	73.19	77.63	79.36	77.59	74.22	68.91	61.81	49.38	28.36
1552.9	89.8(86.1)	84.1	60.48	66.92	73.26	77.27	79.02	77.69	74.50	69.25	61.69	49.12	29.54
1523.1	89.3(85.5)	83.6	59.98	66.92	73.25	77.13	78.36	76.88	73.99	68.74	61.88	48.88	29.42
1504.7	89.3(85.4)	83.4	59.27	66.34	72.61	76.61	77.79	76.84	73.36	68.17	61.56	49.47	30.48
1498.8	88.9(85.4)	83.3	59.68	66.20	72.66	76.12	77.69	77.07	74.57	69.58	61.98	49.85	30.84
1505.7	89.2(85.2)	82.9	59.68	66.18	72.91	75.99	77.14	77.18	74.26	69.08	61.66	49.38	30.38
1523.1	88.7(84.9)	82.6	58.79	65.58	71.78	74.89	76.55	76.93	73.65	68.65	60.78	48.58	29.33
1552.9	88.1(84.2)	81.8	58.88	64.96	70.52	74.15	75.93	76.69	72.83	67.58	59.92	47.66	27.87
1594.9	87.7(83.9)	81.6	58.16	64.87	69.92	73.76	75.21	76.23	72.66	67.34	59.65	46.81	26.77
1659.1	87.9(83.6)	81.8	58.93	63.89	69.48	73.37	74.49	75.96	72.39	66.99	59.92	45.93	25.48

RUN NUMBER	= 119.00 (709.00)
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 530.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .381
PRIMARY VELOCITY (FT/SEC)	= 1198.828
MASS FLOW RATIO	= .465
PRIMARY MASS FLOW (LB/SEC)	= .333
THRUST (LBS)	= 14.609
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 44.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .028
INSTRUMENTATION NOISE FLOOR (DB)	= 58.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL (DB)
OVERALL	1.09987E+00	130.4
500	1.68314E-02	112.3
1000	3.71013E-02	115.7
2000	2.06687E-01	123.2
4000	3.81838E-01	125.8
8000	2.73269E-01	124.4
16000	1.27662E-01	121.1
31500	5.64837E-02	117.5

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.8
20000	161.8
40000	164.8
80000	167.8

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	95.4	99.3	101.6	102.9	99.5	90.6	83.2	107.1
20.0	96.5	95.0	102.4	104.0	99.9	91.3	84.8	107.9
25.0	84.8	94.3	102.0	104.9	100.2	92.6	86.2	107.5
30.0	83.2	92.9	101.2	103.6	100.0	93.5	88.1	107.1
35.0	81.4	90.9	99.2	102.3	99.5	94.3	89.2	105.9
40.0	78.9	88.7	96.5	100.2	99.5	95.5	90.4	104.6
45.0	77.0	86.2	93.8	97.6	98.1	95.1	90.6	102.9
50.0	75.3	83.2	90.8	95.1	96.6	94.6	90.7	101.2
55.0	73.9	81.6	88.9	93.5	95.2	93.4	90.0	99.9
60.0	73.4	80.6	87.8	91.9	93.9	92.4	89.2	98.6
65.0	73.1	80.5	87.2	91.0	92.7	91.3	88.6	97.7
70.0	73.8	80.3	86.3	90.3	92.0	90.6	88.0	97.0
75.0	73.1	79.9	85.8	89.6	91.0	89.9	87.4	96.2
80.0	73.1	79.5	85.5	89.1	90.5	89.0	86.8	95.7
85.0	72.5	78.9	85.0	88.7	90.1	89.0	87.2	95.4
90.0	72.3	79.2	84.7	88.2	89.6	88.5	86.5	94.9
95.0	71.9	78.0	84.3	88.0	89.1	88.1	86.0	94.6
100.0	71.3	78.2	83.6	87.4	89.0	88.6	85.9	94.4
105.0	70.6	77.7	83.4	86.9	88.5	88.7	86.3	94.2
110.0	69.4	77.5	83.0	86.5	88.2	88.7	86.6	94.1
115.0	69.6	76.8	82.6	86.1	87.5	88.4	85.8	93.6

MODEL THRUST = 14.609 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	13.5	OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
			27.0	54.1	108.1	216.2	432.4	851.3	1702.7	3378.3	6756.7	13513.4
5705.4	82.1(81.6)	83.4	72.09	71.95	78.19	79.30	75.31	64.90	53.63	41.44	19.22	-21.23	-89.71
4395.7	86.1(85.3)	86.7	75.56	74.10	81.41	82.88	78.35	68.64	59.13	49.18	31.63	.29	-52.26
3549.3	88.2(87.1)	88.2	65.72	75.17	82.54	84.76	80.65	72.08	63.29	54.67	39.69	13.96	-29.14
3000.0	90.0(88.5)	89.2	65.56	75.27	83.50	85.46	81.95	74.69	67.24	59.49	46.54	24.15	-12.74
2615.2	91.1(89.3)	89.3	64.96	74.42	82.79	85.73	82.75	76.81	69.99	62.84	51.17	31.27	-1.27
2333.6	92.1(89.9)	88.9	63.42	73.26	81.76	84.63	83.70	79.07	72.41	65.72	54.98	36.90	7.53
2121.3	91.9(89.5)	88.0	62.38	71.56	79.15	82.46	83.24	79.66	73.66	67.30	57.26	40.55	13.59
1958.1	91.7(88.8)	87.0	61.35	69.32	76.45	81.04	82.44	79.85	74.71	68.61	59.11	43.46	18.36
1831.2	91.2(88.1)	86.2	60.59	68.23	75.15	80.05	81.60	79.35	74.68	68.78	59.70	44.87	21.18
1732.1	90.7(87.5)	85.6	60.53	67.55	74.68	78.97	80.70	78.85	74.45	68.70	59.96	45.77	23.20
1655.1	90.3(86.9)	84.9	60.66	67.07	74.77	78.45	80.00	78.12	74.33	68.71	60.22	46.52	24.63
1594.3	90.1(86.6)	84.6	61.50	68.14	74.15	78.12	79.65	77.77	74.15	68.62	60.33	47.02	25.98
1552.9	89.7(86.1)	84.0	61.21	67.99	73.58	77.66	79.87	77.33	73.85	68.39	60.23	47.20	26.66
1523.1	89.2(85.6)	83.7	61.38	67.76	73.74	77.31	79.59	76.94	73.41	68.00	59.94	47.10	26.89
1504.7	89.1(85.6)	83.5	60.92	67.29	73.29	76.97	79.27	76.74	73.44	67.80	60.61	47.08	27.87
1500.0	88.9(85.1)	83.1	60.65	67.61	73.76	76.43	77.76	74.34	71.28	67.90	59.93	47.23	27.29
1505.7	88.3(84.7)	82.7	60.32	66.36	72.68	76.36	77.30	73.90	72.76	67.35	59.36	46.63	26.62
1523.1	88.3(84.6)	82.6	59.57	66.62	71.76	75.55	77.04	76.26	72.52	67.18	59.05	46.21	26.00
1552.9	88.1(84.6)	82.0	59.71	65.75	71.68	74.90	76.41	76.21	72.72	67.26	59.11	46.08	25.53
1596.9	87.8(84.0)	81.6	57.31	65.94	70.93	74.28	75.91	74.88	72.73	67.20	58.91	45.59	24.96
1656.1	88.4(83.2)	80.7	57.00	66.30	70.99	73.63	74.98	75.22	71.55	65.42	57.63	43.78	22.66

RUN NUMBER	=	120.00 (710.00)
AXIAL POSITION OF PRIMARY WRT, SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (R)	=	530.000
SECONDARY TEMPERATURE (R)	=	530.000
PRIMARY PRESSURE RATIO	=	7.500
AREA RATIO	=	1.000
VELOCITY RATIO	=	.726
PRIMARY VELOCITY (FT/SEC)	=	1198.928
MASS FLOW RATIO	=	.788
PRIMARY MASS FLOW (LB/SEC)	=	.333
THRUST (LBS)	=	19.509
ENVIRONMENTAL TEMPERATURE (R)	=	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.708
ENVIRONMENTAL HUMIDITY (PER CENT)	=	45.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	=	.045
INSTRUMENTATION NOISE FLOOR (DB)	=	62.585

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.088699E+00	135.8
500	1.469942E-02	111.5
1000	1.067628-01	120.3
2000	5.765908-01	127.6
4000	9.126208-01	129.6
8000	7.459638-01	128.7
16000	4.238338-01	126.3
31500	2.272268-01	123.6

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	161.9
20000	164.9
40000	167.9
80000	170.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	91.0	99.5	106.0	105.0	100.5	93.0	87.1	109.4
20.0	89.7	99.3	106.2	106.3	102.1	95.0	89.2	110.6
25.0	89.5	98.9	106.4	106.7	102.5	95.8	90.5	110.9
30.0	88.1	97.6	105.3	106.8	103.2	97.3	92.3	110.6
35.0	85.5	95.5	103.9	106.2	103.7	98.5	93.8	110.1
40.0	84.2	93.5	101.3	104.5	103.5	99.5	95.1	109.0
45.0	81.2	90.6	98.7	102.2	102.7	100.0	96.2	107.7
50.0	79.3	88.3	96.8	99.9	101.3	99.5	96.0	106.1
55.0	78.8	86.2	93.9	98.1	99.9	98.7	95.8	104.8
60.0	78.6	85.6	92.9	96.7	98.9	97.8	95.3	103.8
65.0	78.6	85.0	92.6	96.3	98.2	96.9	94.7	103.2
70.0	78.4	85.0	92.5	95.7	97.6	96.4	94.4	102.7
75.0	79.0	86.0	91.2	95.1	96.7	95.8	93.9	102.0
80.0	78.1	84.5	91.0	95.1	96.4	95.6	94.0	101.9
85.0	77.4	84.3	90.4	94.4	95.9	94.7	93.1	101.2
90.0	77.4	83.9	90.4	93.6	95.5	94.4	93.1	100.8
95.0	77.1	83.9	90.4	93.5	95.4	94.6	92.9	100.8
100.0	76.9	83.2	90.0	93.5	95.4	94.5	92.7	100.7
105.0	75.3	82.6	89.9	93.5	95.4	95.5	93.4	101.0
110.0	75.0	81.8	89.3	93.3	94.6	94.8	93.4	100.5
115.0	74.2	81.1	88.6	92.6	94.3	94.9	93.1	100.2

MODEL THRUST = 19.509 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 15.6	31.2	62.5	124.9	249.9	499.7	983.8	1967.6	3904.8	7800.1	15614.2
8705.6	83.5(83.0)	84.5	66.43	74.86	80.30	80.13	74.92	65.46	64.88	41.04	15.81	-29.62	-109.05
4385.7	87.8(87.1)	88.1	67.56	77.14	83.96	83.83	79.20	70.62	61.32	50.11	30.29	-4.82	-62.78
3849.3	89.6(89.0)	90.3	69.15	78.54	85.99	86.17	81.58	71.63	65.51	55.87	39.25	10.27	-37.21
3000.0	92.8(91.5)	91.5	69.27	78.75	86.37	87.74	83.81	76.88	69.63	60.92	46.41	21.45	-19.15
2615.2	94.5(92.9)	92.1	67.81	77.77	86.17	88.38	85.53	79.50	72.88	64.79	51.75	29.61	-6.17
2333.4	95.5(93.5)	91.9	67.46	76.82	84.59	87.69	86.37	81.67	74.39	68.03	56.08	35.99	3.75
2121.3	95.9(93.5)	91.5	65.29	74.74	82.79	86.19	86.40	83.09	77.57	70.61	59.47	40.94	11.35
1958.1	95.5(92.9)	90.5	64.09	73.08	80.84	84.64	85.81	83.30	78.23	71.56	61.05	43.72	16.18
1831.2	95.2(92.2)	89.7	64.24	71.80	79.28	83.19	84.95	83.15	78.82	72.39	62.37	45.96	20.41
1732.1	95.0(91.9)	89.3	64.50	71.66	78.78	82.53	84.51	82.77	78.94	72.70	63.06	47.38	22.67
1655.1	94.9(91.6)	89.1	64.89	71.89	78.85	82.47	84.19	82.39	78.86	72.76	63.41	48.38	24.55
1594.3	94.8(91.4)	88.8	64.98	71.61	78.65	82.24	83.89	82.21	78.88	72.90	63.77	49.09	26.08
1542.9	94.5(91.0)	88.4	65.89	71.61	78.80	81.85	83.25	81.87	78.73	72.82	63.87	49.50	27.06
1523.1	94.6(91.0)	88.5	65.14	71.54	77.97	82.02	83.17	81.78	79.07	73.22	64.37	50.22	28.13
1506.7	93.9(90.4)	87.9	64.69	71.39	77.53	81.60	82.78	81.67	78.93	72.61	63.94	49.91	27.74
1500.0	93.7(90.1)	87.6	64.52	71.04	77.47	80.49	82.33	80.79	78.87	72.47	63.71	49.73	27.43
1509.7	93.8(90.1)	87.5	64.22	71.00	77.46	80.52	82.38	80.91	78.98	72.27	63.49	49.47	27.48
1523.1	93.4(89.9)	87.3	62.96	70.22	77.01	80.42	82.11	80.75	77.74	71.89	63.05	48.89	26.81
1552.9	93.8(90.3)	87.4	62.15	69.66	76.69	80.25	81.96	81.50	78.18	72.28	63.32	48.95	26.69
1594.3	93.6(89.9)	86.6	61.87	68.63	75.91	79.77	80.96	80.61	77.96	71.97	62.95	48.16	25.10
1655.1	92.9(88.9)	85.8	60.51	67.42	74.99	78.74	80.15	80.17	77.21	71.12	61.77	46.85	22.81

RUN NUMBER	=	121.00 (713.00)
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS)	=	0.000
PRIMARY TEMPERATURE (R)	=	537.000
SECONDARY TEMPERATURE (R)	=	517.000
PRIMARY PRESSURE RATIO	=	2.503
AREA RATIO	=	1.000
VELOCITY RATIO	=	.845
PRIMARY VELOCITY (FT/SEC)	=	1206.719
MASS FLOW RATIO	=	1.040
PRIMARY MASS FLOW (LB/SEC)	=	.333
THRUST (LBS)	=	23.471
ENVIRONMENTAL TEMPERATURE (R)	=	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	=	45.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	=	.045
INSTRUMENTATION NOISE FLOOR (DB)	=	62.585

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.43485E+00	135.4
500	1.67292E-02	112.2
1000	1.34511E-01	121.3
2000	6.49912E-01	128.1
4000	1.03267E+00	130.1
8000	7.69636E-01	128.9
16000	4.78449E-01	126.8
31500	3.52945E-01	125.5

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	161.7
20000	164.7
40000	167.7
80000	170.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE	OCTAVE BAND SOUND PRESSURE LEVELS							OVER
(DEG)	500	1000	2000	4000	6000	16000	31500	ALL
15.0	92.3	100.5	102.2	105.2	99.5	94.2	87.8	108.7
20.0	91.6	100.8	106.6	106.7	101.2	95.1	89.6	110.9
25.0	89.7	99.8	107.2	107.1	102.2	96.2	91.8	111.4
30.0	87.4	98.7	106.3	107.6	103.3	97.6	93.7	111.4
35.0	86.9	96.4	104.7	106.6	103.8	98.9	94.9	110.6
40.0	85.1	94.7	102.5	104.8	103.7	99.9	96.5	109.5
45.0	82.4	91.4	99.4	102.4	102.6	100.3	97.2	107.9
50.0	81.0	88.7	96.2	100.3	101.4	100.0	97.4	106.5
55.0	79.5	87.2	94.5	98.7	100.4	99.3	97.2	105.5
60.0	79.3	86.0	93.1	97.6	99.1	98.5	97.0	104.6
65.0	79.0	85.8	92.5	96.6	98.2	97.8	96.9	103.9
70.0	78.4	85.6	92.0	96.2	97.4	97.2	96.5	103.3
75.0	78.1	85.3	91.7	96.0	97.1	96.8	96.7	103.1
80.0	78.4	84.9	91.4	95.8	96.7	96.1	96.4	102.7
85.0	77.6	85.1	91.0	95.2	96.2	95.7	96.1	102.3
90.0	77.9	84.4	90.7	94.7	96.1	95.5	96.0	102.0
95.0	76.8	84.3	90.4	94.5	96.0	95.3	95.5	101.8
100.0	76.3	84.2	89.8	94.4	95.9	95.1	95.3	101.6
105.0	75.6	83.5	89.6	94.1	95.8	95.0	95.4	101.6
110.0	75.6	82.9	89.4	94.3	95.7	95.0	94.6	101.3
115.0	75.3	82.2	88.6	93.3	95.5	94.9	94.2	100.9

MODEL THRUST = 23.471 FULL SCALE THRUST = 20000.000

L=	FNOR=	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS							
			17.1	34.3	68.5	137.0	274.1	548.1	1079.1	2159.2
5795.6	82.61	82.21	82.9	66.95	75.11	76.66	79.64	72.88	65.49	53.78
4385.7	87.51	86.81	87.6	68.58	77.80	83.54	81.64	77.91	69.54	60.09
3549.3	90.45	89.51	89.9	68.80	78.69	86.09	84.77	83.31	72.96	65.35
3000.0	92.81	91.61	91.4	67.75	78.96	86.59	87.78	83.82	76.19	69.59
2615.2	94.31	92.81	91.8	68.63	77.86	86.19	87.99	84.80	78.85	72.55
2333.6	95.31	93.41	91.6	67.67	77.23	84.95	87.19	86.88	81.07	75.51
2121.3	95.51	93.21	90.7	65.75	74.75	82.68	85.68	85.55	82.40	77.41
1964.1	95.41	92.71	90.0	65.01	72.74	80.71	84.25	84.06	83.89	78.68
1831.2	95.21	92.31	89.5	64.68	71.75	79.66	83.18	84.56	82.80	79.07
1732.1	95.11	91.91	89.0	64.15	71.08	78.33	82.82	83.82	82.63	79.52
1655.1	95.11	91.71	88.7	64.53	71.26	77.96	82.01	83.38	82.32	79.93
1594.3	94.91	91.51	88.5	64.17	71.36	77.80	81.90	82.84	82.04	79.90
1542.9	95.11	91.41	88.5	64.17	71.38	77.75	81.87	82.83	81.76	80.40
1523.1	95.21	91.11	88.4	64.58	71.09	77.41	81.94	82.82	81.44	80.12
1505.7	95.01	90.81	88.0	63.94	71.43	77.26	81.38	82.17	81.15	80.14
1500.8	94.91	90.71	87.8	64.21	70.74	76.97	80.96	82.13	80.98	80.08
1505.7	94.41	90.41	87.6	63.14	70.59	76.73	80.76	82.02	80.76	79.56
1523.1	94.11	90.11	87.3	62.46	70.36	75.98	80.68	81.79	80.44	79.27
1552.9	94.01	89.81	87.0	61.07	69.53	75.58	80.01	81.56	80.16	79.33
1596.5	93.91	89.31	86.5	61.44	68.72	75.19	80.62	81.17	79.89	77.99
1655.1	93.11	88.71	85.9	60.79	67.91	74.05	78.69	80.44	79.45	77.29

L=	OVER ALL
5795.6	-37.44
4385.7	-11.13
3549.3	6.01
3000.0	18.03
2615.2	26.45
2333.6	33.41
2121.3	38.31
1964.1	41.70
1831.2	44.09
1732.1	45.94
1655.1	47.45
1594.3	48.24
1542.9	49.37
1523.1	49.71
1505.7	49.78
1500.8	49.80
1505.7	49.80
1523.1	49.70
1552.9	49.53
1596.5	49.36
1655.1	49.09

RUN NUMBER	=	132.00 (714.00)
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (R)	=	527.000
SECONDARY TEMPERATURE (R)	=	520.000
PRIMARY PRESSURE RATIO	=	2.506
AREA RATIO	=	2.007
VELOCITY RATIO	=	.379
PRIMARY VELOCITY (FT/SEC)	=	1195.430
MASS FLOW RATIO	=	.925
PRIMARY MASS FLOW (LB/SEC)	=	.335
THRUST (LBS)	=	16.793
ENVIRONMENTAL TEMPERATURE (R)	=	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	=	45.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	=	.032
INSTRUMENTATION NOISE FLOOR (DB)	=	59.573

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	9.03588E-01	129.6
500	7.64966E-03	108.8
1000	5.31940E-02	117.3
2000	2.25829E-01	123.5
4000	3.25226E-01	125.1
8000	1.88304E-01	122.7
16000	6.95037E-02	118.4
31500	3.40802E-02	115.3

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.3
20000	160.3
40000	163.3
80000	166.3

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	88.7	98.0	102.6	103.0	97.1	85.6	79.1	107.1
20.0	88.5	97.8	103.8	103.4	97.8	86.7	80.7	107.3
25.0	88.3	95.6	102.6	103.6	98.1	88.5	82.1	107.2
30.0	85.5	94.9	101.5	102.7	98.3	90.1	83.8	106.5
35.0	82.9	92.0	99.3	101.3	98.3	91.0	85.6	105.1
40.0	81.0	89.5	96.2	99.0	98.1	93.0	87.8	103.4
45.0	78.5	86.6	93.2	96.4	96.2	92.7	87.8	101.3
50.0	77.2	84.7	90.8	94.3	94.8	91.9	87.8	99.7
55.0	76.0	83.1	88.9	92.8	93.8	91.1	87.4	98.5
60.0	74.8	82.4	88.4	91.6	92.4	90.0	87.0	97.6
65.0	75.1	81.9	87.6	90.5	91.5	89.2	86.2	96.8
70.0	75.1	81.6	87.1	89.8	90.8	88.4	86.3	96.0
75.0	74.9	80.8	86.3	89.2	90.0	87.6	85.9	95.3
80.0	74.1	80.9	85.8	88.7	89.2	87.1	85.9	94.8
85.0	74.1	79.9	85.4	87.9	88.7	86.6	85.3	94.2
90.0	73.8	80.1	84.9	87.8	88.3	86.2	85.3	93.9
95.0	73.8	79.1	84.3	87.2	87.7	85.9	85.0	93.6
100.0	73.5	78.9	83.9	86.8	87.3	85.5	85.3	93.1
105.0	72.6	78.6	83.6	86.1	86.7	85.2	84.8	92.6
110.0	71.6	78.3	83.3	85.8	86.3	84.5	84.6	92.3
115.0	71.6	77.7	82.9	85.2	85.6	84.8	84.6	91.9

MODEL THRUST = 16.793 FULL SCALE THRUST = 20804.888

L,	PNDB,	DNPL	OCTAVE BAND SOUND PRESSURE LEVELS 149.5	299.0	598.0	1196.1	2391.9	4783.8	9572.5	19145.1	38290.2	76580.4	153160.8
9795.6	80.6	80.8	82.9	84.76	74.83	78.60	78.76	72.82	58.80	44.31	33.36	11.73	-31.84	-102.93
4389.7	84.1	83.5	85.6	86.82	75.62	81.38	81.42	75.65	63.22	54.03	43.50	24.89	-8.22	-43.36
3849.1	84.6	84.0	87.3	86.45	78.98	82.99	83.73	77.88	67.21	58.23	49.14	33.58	9.15	-35.84
3008.0	85.5	87.0	88.0	87.28	76.78	83.26	84.16	78.40	70.76	61.99	53.43	40.19	16.58	-22.69
2615.2	84.1	87.0	87.9	85.85	76.91	82.25	84.16	80.98	73.64	65.61	56.02	43.71	20.78	-9.32
2333.6	83.6	86.9	87.1	86.98	73.40	80.10	82.45	81.69	75.91	68.17	61.17	49.86	28.64	.11
2121.9	84.6	87.2	88.8	83.27	71.35	77.89	81.84	80.89	78.68	70.86	63.48	52.85	35.89	7.88
1958.1	87.1	88.6	86.9	82.73	70.14	76.35	79.72	80.85	78.50	70.66	64.28	54.51	37.87	11.88
1831.2	84.9	88.1	86.3	82.10	69.14	75.04	78.79	79.56	78.30	71.29	65.13	55.62	38.84	13.29
1732.1	84.6	85.6	83.7	82.80	68.99	74.84	78.87	78.43	75.76	71.68	65.50	56.56	41.66	17.86
1655.1	88.1	84.9	81.2	82.06	68.82	74.28	77.38	78.14	75.60	71.21	64.36	56.67	42.11	19.44
1594.3	85.0	84.7	82.9	82.38	68.89	74.51	76.43	77.76	74.06	71.76	64.96	57.24	43.22	21.15
1545.9	87.6	84.2	82.5	82.37	68.24	73.80	76.00	77.22	74.37	71.56	64.87	57.36	43.68	22.23
1505.1	87.6	83.8	82.2	81.74	68.94	73.39	76.28	76.95	74.05	71.76	64.18	57.78	44.84	23.16
1469.7	86.0	83.3	81.7	81.88	67.47	73.15	76.41	76.80	73.72	71.65	64.47	57.31	43.97	23.69
1438.0	84.7	83.0	81.4	81.82	67.85	72.66	76.42	76.40	73.29	71.39	64.72	57.39	44.68	23.26
1409.7	84.2	82.5	80.9	81.38	66.90	72.03	76.40	75.95	72.86	71.08	64.41	57.65	43.71	22.82
1383.1	85.9	82.0	80.6	81.28	66.67	71.92	76.26	76.71	72.65	71.13	64.52	57.69	43.88	22.96
1358.9	85.7	81.6	79.8	80.65	66.16	71.03	75.68	75.92	71.90	70.61	64.74	56.21	42.55	21.18
1336.3	84.6	80.8	79.3	80.85	65.95	70.67	75.00	75.14	71.68	69.98	64.24	55.44	41.80	19.43
1315.1	84.8	80.8	79.5	80.84	66.09	69.94	75.03	74.32	71.03	69.88	63.78	54.87	40.59	17.88

RUN NUMBER	= 123.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 525.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .726
PRIMARY VELOCITY (FT/SEC)	= 1193.168
MASS FLOW RATIO	= 1.613
PRIMARY MASS FLOW (LB/SEC)	= .337
THRUST (LBS)	= 27.081
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 65.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .056
INSTRUMENTATION NOISE FLOOR (DB)	= 84.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.50604E+00	136.5
500	4.31218E-02	116.3
1000	3.02269E-01	124.8
2000	1.00094E+00	130.0
4000	1.18410E+00	130.7
8000	1.01269E+00	130.1
16000	6.12561E-01	127.9
31500	3.48391E-01	125.4

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	162.2
20000	165.2
40000	168.2
80000	171.2

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	96.2	104.3	107.1	104.8	100.0	96.3	92.9	111.1
20.0	94.8	104.8	108.2	108.6	102.5	98.8	94.7	112.3
25.0	93.5	103.0	108.6	107.9	104.4	100.7	96.8	113.0
30.0	91.2	101.4	107.7	108.2	105.1	101.4	97.4	112.8
35.0	84.2	99.7	106.3	107.5	105.6	101.9	98.3	112.2
40.0	80.6	97.2	104.2	106.0	105.5	102.6	98.8	111.3
45.0	85.0	94.2	100.8	103.6	104.5	102.3	99.3	109.6
50.0	84.3	92.3	98.3	101.5	103.1	101.3	98.8	108.1
55.0	85.3	92.7	97.6	100.1	102.0	100.4	97.9	107.1
60.0	85.5	92.3	96.8	98.9	100.5	99.4	97.0	105.9
65.0	85.7	91.9	95.8	98.0	99.6	98.5	96.4	105.1
70.0	85.1	91.7	95.2	97.1	98.3	97.8	95.7	104.1
75.0	85.5	91.6	94.4	96.5	97.5	96.7	95.3	103.6
80.0	84.6	90.4	93.7	95.5	96.5	95.9	94.1	102.6
85.0	84.0	89.9	93.4	95.1	96.0	95.2	94.2	102.2
90.0	83.3	89.2	92.9	94.8	95.5	94.7	93.8	101.7
95.0	82.5	88.4	92.3	93.9	95.3	94.1	93.0	101.1
100.0	81.2	87.1	91.6	93.2	94.4	93.8	92.8	100.4
105.0	81.5	86.8	91.2	92.7	94.3	93.3	92.1	100.1
110.0	79.4	85.5	90.5	92.6	94.4	93.0	92.4	99.9
115.0	78.8	84.2	89.2	91.7	93.7	92.9	91.9	99.3

MODEL THRUST = 27.081 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE BAND SOUND PRESSURE LEVELS 18.4	36.8	73.6	147.2	294.4	588.8	1159.1	2318.2	4599.7	9199.4	18398.7
5795.6	83.6(83.1)	84.7	70.18	78.26	80.96	78.40	72.68	66.56	57.42	41.41	12.33	-39.38	-173.55	
4385.7	88.5(87.7)	85.3	71.21	80.34	84.52	82.71	77.94	72.40	61.98	51.14	28.40	-11.48	-75.88	
3549.3	92.7(91.1)	90.9	71.75	81.24	86.81	85.83	81.85	76.66	69.24	59.29	38.31	6.53	-46.22	
3000.0	94.3(93.0)	92.1	70.92	81.66	87.36	87.64	84.09	79.15	72.19	62.45	45.95	17.78	-27.28	
2615.2	96.0(94.4)	92.7	70.07	80.55	87.10	88.19	85.88	81.13	74.90	66.84	51.20	26.32	-13.34	
2333.4	96.9(95.1)	92.6	68.51	79.82	86.08	87.71	86.90	83.00	76.84	68.60	55.10	32.52	-3.19	
2121.3	96.9(96.8)	91.7	67.71	78.92	83.44	86.12	86.75	83.65	78.52	70.76	58.21	37.41	4.68	
1958.1	96.5(96.1)	90.8	67.68	75.70	81.62	84.80	86.03	83.50	78.94	71.58	59.77	40.36	9.49	
1831.2	96.1(93.7)	90.4	69.26	74.89	81.50	83.94	85.54	83.19	78.87	71.76	60.51	42.15	11.48	
1732.1	95.7(93.0)	89.8	70.00	76.77	81.85	83.24	84.57	82.72	78.66	71.80	61.00	43.47	14.19	
1655.1	95.4(92.6)	89.6	70.53	76.78	80.59	82.78	84.10	82.26	78.73	72.01	61.56	44.68	16.48	
1596.3	94.8(91.8)	89.8	70.31	76.83	80.32	82.14	83.14	81.17	78.24	71.65	61.47	45.87	19.70	
1552.9	94.5(91.4)	89.5	70.95	76.93	79.82	81.90	82.60	81.89	78.20	71.71	61.72	45.69	20.93	
1523.1	93.8(90.6)	87.7	70.16	76.80	79.23	81.02	81.74	80.56	77.37	70.95	61.09	45.31	20.96	
1505.7	93.5(90.2)	87.4	69.69	75.61	79.09	80.65	81.32	79.90	77.41	71.04	61.20	45.62	21.52	
1500.0	93.1(89.8)	87.0	69.65	74.87	78.61	80.43	80.90	79.44	77.05	70.88	60.93	45.36	21.31	
1509.7	92.4(89.2)	86.3	69.16	74.08	77.96	79.51	80.65	79.01	76.21	69.83	60.05	44.42	20.31	
1523.1	91.7(88.5)	85.6	66.85	72.71	77.13	78.65	79.89	78.42	75.69	69.48	59.62	43.86	19.49	
1552.9	91.0(87.9)	85.0	66.89	72.19	76.57	78.05	79.38	77.72	74.99	68.58	58.51	42.68	17.72	
1596.3	90.4(87.5)	84.5	66.56	70.67	75.66	77.42	79.18	77.15	74.48	68.40	58.21	41.92	16.44	
1655.1	89.9(89.9)	83.2	63.78	69.82	74.83	76.98	78.11	76.72	74.09	67.95	58.98	40.81	13.81	

RUN NUMBER	=	124.00 (Y15.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (R)	=	525.000
SECONDARY TEMPERATURE (R)	=	525.000
PRIMARY PRESSURE RATIO	=	2.500
AREA RATIO	=	2.087
VELOCITY RATIO	=	.860
PRIMARY VELOCITY (FT/SEC)	=	1193.100
MASS FLOW RATIO	=	2.030
PRIMARY MASS FLOW (LB/SEC)	=	.335
THRUST (LBS)	=	34.093
ENVIRONMENTAL TEMPERATURE (R)	=	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	=	45.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	=	.071
INSTRUMENTATION NOISE FLOOR (DB)	=	66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.866888E+00	138.4
500	4.725666E-02	116.7
1000	4.372516-01	126.4
2000	1.488698E+00	131.7
4000	1.844959E+00	132.7
8000	1.529990E+00	131.8
16000	9.763888E-01	129.9
31500	5.395188E-01	127.3

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	143.0
20000	146.1
40000	149.1
80000	152.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	96.3	103.9	108.4	106.4	101.7	97.8	92.9	112.1
20.0	95.4	104.9	109.7	108.8	104.1	98.8	94.4	113.8
25.0	94.5	103.5	110.2	109.8	105.8	100.7	96.5	114.5
30.0	92.7	103.1	110.6	109.6	106.0	101.2	98.4	114.4
35.0	90.8	100.8	108.3	109.1	106.7	102.8	99.3	113.8
40.0	88.5	98.2	106.8	107.7	107.2	104.8	100.8	112.9
45.0	86.3	104.0	103.2	105.6	106.2	104.8	101.3	112.1
50.0	85.0	92.9	99.0	103.5	104.9	103.2	100.6	109.9
55.0	84.1	91.5	97.8	102.8	103.6	102.2	99.9	108.6
60.0	84.4	91.3	97.3	100.7	102.2	100.5	98.9	107.4
65.0	84.3	91.5	96.6	100.0	101.6	100.5	98.7	106.9
70.0	84.4	91.8	96.1	99.8	100.8	100.0	98.4	106.4
75.0	84.3	91.4	95.7	98.9	99.9	99.6	97.7	105.8
80.0	84.3	90.9	95.8	98.2	99.4	98.8	97.0	105.1
85.0	83.5	90.4	95.8	97.9	98.8	98.2	96.6	104.7
90.0	82.6	89.9	96.2	97.2	98.1	97.6	95.3	103.9
95.0	82.6	89.7	96.2	96.9	97.7	97.1	95.2	103.6
100.0	81.9	88.6	93.9	96.5	97.2	96.8	95.0	103.2
105.0	81.1	87.6	93.1	96.0	96.8	96.4	94.1	102.7
110.0	79.9	86.6	92.8	95.6	96.5	96.0	94.1	102.3
115.0	79.9	85.8	91.9	94.7	96.8	100.4	93.7	104.1

MODEL THRUST = 34.093 FULL SCALE THRUST = 20000.000

L.	PND4.	OASPL	20.6	OCTAVE 41.3	BAND 82.6	SOUND 165.1	PRESSURE 330.3	LEVELS 660.6	1300.5	2601.1	5100.9	10321.8	20643.6
5798.6	84.1	83.7	84.6	69.27	76.86	81.20	78.88	73.06	65.64	54.90	37.16	5.07	-51.26	-141.84
4345.7	89.3	88.7	86.8	70.75	80.31	84.44	83.61	78.31	70.89	61.69	47.34	22.33	-21.83	-90.31
3549.3	92.7	91.9	91.3	71.78	80.67	87.34	86.72	82.09	75.28	67.01	54.98	34.17	-1.49	-58.13
3000.0	94.7	93.8	92.7	71.42	81.75	86.58	86.06	83.87	78.25	71.39	60.76	42.70	12.89	-36.24
2615.2	96.3	95.8	93.2	70.71	80.65	88.16	88.78	85.88	80.70	74.28	64.59	48.62	21.35	-21.17
2333.6	97.7	96.1	93.2	69.38	79.06	86.80	88.34	87.40	83.17	77.31	68.38	53.67	29.19	-9.87
2121.3	98.3	96.4	93.2	67.98	85.72	84.84	87.15	87.31	84.13	79.95	70.56	56.91	34.39	-.67
1950.1	97.5	95.3	91.5	67.38	75.28	82.24	85.76	86.81	84.11	79.55	71.57	58.74	37.72	5.13
1831.2	96.9	94.6	90.8	67.09	74.46	80.78	84.87	86.10	83.84	79.37	71.72	59.53	39.68	9.98
1732.1	96.3	93.8	90.1	67.91	74.79	80.74	83.98	85.16	82.93	79.10	71.70	60.08	41.86	11.89
1655.1	96.4	93.8	90.0	68.12	75.36	80.66	83.68	84.98	83.10	79.64	72.26	60.95	42.72	14.71
1596.7	96.3	93.6	89.9	68.62	75.67	80.28	83.50	84.57	82.99	79.58	72.53	61.51	43.82	16.78
1552.9	95.9	93.1	89.5	68.67	75.82	80.11	83.17	83.93	82.87	79.19	72.25	61.45	44.16	17.49
1523.1	95.6	92.7	89.1	68.84	75.16	79.59	82.89	83.58	82.25	78.72	71.85	61.28	44.18	18.17
1505.7	95.8	92.3	88.7	68.15	75.07	79.63	82.64	83.08	81.70	78.40	71.57	61.02	44.18	18.41
1500.0	96.2	91.5	88.0	67.32	74.59	78.91	81.86	82.62	81.17	77.71	70.94	59.87	43.86	17.19
1505.7	93.9	91.2	87.7	67.05	74.35	78.88	81.67	81.99	80.66	77.08	70.25	59.09	42.83	17.08
1523.1	93.3	90.6	87.2	66.47	73.23	78.41	80.96	81.37	80.23	76.67	69.80	58.15	42.14	16.12
1552.9	92.5	89.9	86.6	65.52	72.03	77.47	80.24	80.81	79.66	75.57	68.62	57.03	40.56	14.07
1596.3	91.9	89.2	85.8	64.12	70.79	76.64	79.42	80.27	78.98	75.25	68.19	57.18	39.69	12.37
1659.1	92.4	91.2	87.1	63.81	69.68	75.31	78.39	82.17	82.98	78.61	67.28	55.84	37.88	9.85

RUN NUMBER	= 135.00 (717.00)
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 515.000
SECONDARY TEMPERATURE (R)	= 505.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 4.856
VELOCITY RATIO	= .377
PRIMARY VELOCITY (FT/SEC)	= 1181.742
MASS FLOW RATIO	= 1.667
PRIMARY MASS FLOW (LB/SEC)	= .336
THRUST (LBS)	= 20.030
ENVIRONMENTAL TEMPERATURE (R)	= 518.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	= 60.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .022
INSTRUMENTATION NOISE FLOOR (DB)	= 56.588

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.33254E-01	128.7
500	1.24008E-02	110.9
1000	4.24852E-02	116.3
2000	1.38103E-01	121.4
4000	2.12097E-01	123.3
8000	1.74118E-01	122.4
16000	1.00955E-01	120.0
31500	5.10955E-02	117.3

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	155.6
20000	158.6
40000	161.7
80000	164.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	94.3	93.0	94.6	94.6	91.9	89.9	87.8	101.3
20.0	88.3	94.6	98.0	98.8	96.2	90.6	88.3	103.7
25.0	87.2	94.6	99.4	100.2	97.3	90.7	88.7	104.7
30.0	86.3	93.6	99.1	100.1	97.2	91.3	89.0	104.5
35.0	84.6	92.2	98.4	99.9	97.4	92.5	89.6	104.3
40.0	82.3	89.9	96.5	99.0	97.1	92.8	89.3	103.3
45.0	80.1	87.4	93.6	96.7	96.6	93.3	89.1	101.8
50.0	78.7	85.4	91.3	94.4	95.3	93.7	89.7	100.5
55.0	78.0	83.8	89.5	93.2	94.6	93.5	90.1	99.8
60.0	77.5	83.2	88.4	91.5	92.9	92.7	89.6	98.4
65.0	77.3	82.3	87.7	90.4	91.8	91.3	89.0	97.5
70.0	77.1	82.4	86.9	89.8	91.0	90.8	88.0	96.8
75.0	77.0	81.8	86.6	89.1	90.4	90.2	87.2	96.2
80.0	76.7	81.1	85.7	88.4	89.7	89.2	86.9	95.4
85.0	75.7	81.1	85.4	87.8	88.9	88.5	86.4	94.8
90.0	75.7	80.1	84.8	87.4	88.3	88.0	86.0	94.3
95.0	75.2	80.3	84.8	87.0	88.0	87.3	85.7	93.9
100.0	74.8	79.9	84.2	86.6	87.4	87.0	84.9	93.4
105.0	73.9	79.3	83.9	86.2	87.5	86.6	84.5	93.2
110.0	73.9	78.9	83.3	85.5	87.1	86.0	84.2	92.6
115.0	72.4	78.3	82.9	84.8	86.4	85.1	83.8	92.0

MODEL THRUST = 20.030 FULL SCALE THRUST = 20000.000

L*	PNDB*	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 15.8	31.6	63.3	126.6	253.2	506.3	996.9	1993.7	3955.8	7911.5	15823.1
5795.6	75.0(74.1)	76.1	69.55	68.23	69.81	69.59	66.14	62.19	55.34	41.35	15.82	-30.09	-106.39
4345.7	81.5(80.5)	81.0	66.02	72.32	75.81	76.27	73.15	66.02	60.17	48.84	28.79	-6.67	-45.15
3549.3	85.0(83.7)	84.0	66.70	74.18	78.87	79.51	76.22	69.45	63.55	53.81	37.02	7.74	-40.15
3000.0	86.8(85.3)	85.2	67.26	74.57	80.05	80.95	77.63	70.78	65.98	57.28	42.62	17.41	-23.53
2615.2	88.5(86.8)	86.2	66.84	74.40	80.57	81.98	79.14	73.32	68.30	60.34	47.17	24.81	-11.26
2333.6	89.2(87.2)	86.2	65.49	73.05	79.62	82.07	79.85	74.81	69.39	61.96	49.89	29.62	-2.90
2121.3	89.4(87.2)	85.4	64.11	71.36	77.59	80.59	80.22	76.27	70.28	63.25	52.01	33.30	3.47
1958.1	89.5(86.9)	84.7	63.45	70.09	75.94	79.05	79.69	77.37	71.60	65.08	54.47	36.98	9.21
1831.2	89.4(87.0)	84.6	63.33	69.89	74.82	78.42	79.57	77.90	72.92	66.50	56.38	39.82	13.66
1732.1	89.3(86.2)	83.7	63.31	68.94	74.15	77.23	78.42	77.13	73.06	66.77	57.04	41.22	16.31
1655.1	88.9(85.6)	83.2	63.44	68.50	73.86	76.44	77.67	76.60	73.00	66.66	57.42	42.17	18.26
1594.3	88.6(85.4)	82.8	63.82	68.40	73.37	76.15	77.24	76.44	72.34	66.32	57.11	42.29	19.18
1542.9	88.3(85.0)	82.5	63.72	68.49	73.35	75.73	76.80	76.08	71.89	65.94	56.91	42.41	19.77
1523.1	87.8(84.3)	81.9	63.61	67.96	72.61	75.22	76.32	75.32	71.74	65.85	56.93	42.65	20.38
1505.7	87.3(83.8)	81.4	62.65	68.05	72.34	74.72	75.58	74.73	71.40	65.54	56.69	42.56	20.50
1500.0	86.8(83.3)	81.0	62.48	67.12	71.79	74.34	75.06	74.24	71.04	65.20	56.37	42.26	20.29
1505.7	86.2(82.7)	80.5	62.15	67.29	71.76	73.88	74.69	73.61	70.67	64.81	55.96	41.81	19.73
1523.1	85.6(82.1)	79.9	61.71	66.35	71.03	73.37	74.03	73.10	69.74	63.85	54.93	40.66	18.39
1552.9	85.0(81.6)	79.5	60.60	66.67	70.57	72.94	73.91	72.64	69.15	63.21	54.17	39.87	17.63
1594.3	84.2(80.8)	78.7	60.30	65.37	69.72	71.87	73.29	71.88	68.54	62.53	53.32	38.51	16.32
1655.1	83.6(79.8)	77.7	58.55	64.45	68.08	70.85	72.23	70.39	67.25	61.61	52.18	36.92	12.89

RUN NUMBER	= 126.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= .000
PRIMARY TEMPERATURE (R)	= 511.000
SECONDARY TEMPERATURE (R)	= 515.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 4.856
VELOCITY RATIO	= .729
PRIMARY VELOCITY (FT/SEC)	= 1177.144
MASS FLOW RATIO	= 3.348
PRIMARY MASS FLOW (LB/SEC)	= .348
THRUST (LBS)	= 42.685
ENVIRONMENTAL TEMPERATURE (R)	= 518.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	= 90.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .000
INSTRUMENTATION NOISE FLOOR (DB)	= 61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.10586E+00	133.2
500	7.93467E-02	119.0
1000	3.23879E-01	125.1
2000	5.70928E-01	127.6
4000	4.96596E-01	127.0
8000	3.58710E-01	125.5
16000	1.76123E-01	122.5
31500	9.82818E-02	119.9

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	156.9
20000	159.9
40000	163.0
80000	166.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	97.8	101.7	100.2	94.5	88.3	90.2	85.8	105.6
20.0	98.8	103.9	103.4	98.6	93.4	91.6	85.9	108.1
25.0	97.3	103.4	104.8	100.7	95.3	90.9	87.6	108.7
30.0	95.5	103.0	104.7	101.3	95.3	91.1	88.2	108.6
35.0	93.8	101.0	103.9	102.3	98.3	93.1	89.8	108.2
40.0	92.1	99.2	102.5	101.9	99.1	94.2	90.2	107.6
45.0	89.7	96.2	100.4	101.1	98.6	95.3	91.6	106.3
50.0	87.4	93.9	98.6	99.4	99.8	95.3	91.6	104.9
55.0	86.2	92.4	97.5	98.5	98.5	95.6	92.5	104.4
60.0	85.6	91.2	95.9	97.4	97.3	95.0	92.4	103.3
65.0	85.4	91.0	95.1	96.9	97.0	94.8	92.1	102.9
70.0	85.5	90.1	94.1	95.8	96.0	94.1	91.8	102.0
75.0	84.9	90.0	93.8	95.7	95.6	93.6	91.4	101.6
80.0	84.6	88.9	93.0	94.9	94.8	92.9	91.0	100.9
85.0	84.5	88.6	92.4	94.6	94.5	92.2	90.5	100.5
90.0	83.6	87.9	92.2	94.3	93.7	91.5	89.9	99.9
95.0	83.3	87.6	91.7	93.6	93.5	90.8	89.3	99.5
100.0	82.4	87.3	91.3	92.9	93.0	90.2	88.8	98.9
105.0	81.6	86.6	90.7	92.7	92.8	89.5	88.1	98.5
110.0	80.5	86.1	90.1	92.2	92.3	89.8	87.6	98.0
115.0	81.0	86.1	90.1	91.9	92.1	88.3	86.8	97.7

MODEL THRUST = 42.685 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 23.1	46.2	92.4	184.8	369.6	739.2	1478.5	2956.9	5913.7	11827.5	23655.0
5795.4	73.4	73.1	77.3	69.77	73.61	71.98	65.87	58.39	57.88	45.11	25.50	-9.77	-70.98	-167.98
4385.7	80.3	79.9	82.3	72.43	78.26	77.88	72.59	66.44	61.95	50.76	35.19	7.77	-39.28	-113.39
3549.3	84.1	83.5	84.7	73.60	79.62	80.92	76.58	70.42	64.85	54.15	42.98	20.22	-18.43	-79.98
3000.0	86.3	85.5	86.1	73.20	80.73	82.33	78.65	73.05	66.21	56.40	47.80	28.18	-9.83	-66.68
2615.2	88.0	87.0	88.4	72.69	79.94	82.75	80.95	76.36	69.73	62.98	52.68	34.92	-3.06	-39.78
2333.6	89.0	88.0	88.9	72.01	79.05	82.31	81.52	78.30	71.99	65.04	55.35	39.36	12.92	-27.91
2121.3	90.0	89.2	89.6	70.48	76.96	81.07	81.62	79.62	74.17	67.66	58.58	43.77	19.46	-17.93
1958.1	90.5	89.9	89.9	68.86	74.86	79.97	80.60	79.55	75.81	69.71	60.10	46.20	23.53	-11.22
1831.2	91.1	90.3	89.9	68.18	74.43	79.42	80.27	79.95	76.84	70.52	62.27	49.08	27.64	-5.81
1732.1	90.8	90.8	89.2	68.85	73.66	78.37	78.76	79.27	75.94	71.15	63.18	50.56	30.15	-.96
1655.1	90.9	90.9	89.2	68.26	73.88	77.90	78.65	79.33	76.27	71.36	63.61	51.48	31.78	1.96
1596.1	90.5	90.6	89.6	68.66	73.27	77.22	78.85	78.72	75.85	71.50	63.93	52.04	33.01	4.13
1552.9	90.4	90.1	89.5	69.33	73.39	77.17	78.93	78.38	75.42	71.44	64.01	52.36	33.76	5.58
1523.1	89.9	89.6	89.9	69.20	72.51	76.54	78.37	77.77	75.18	71.29	63.92	52.44	34.19	6.45
1504.7	89.6	89.6	89.7	69.19	72.36	76.02	78.15	77.71	74.90	70.92	63.71	52.22	34.18	6.68
1500.0	89.0	88.7	89.2	67.13	71.67	75.85	77.85	76.97	73.89	70.36	63.04	51.69	33.62	6.30
1505.7	88.5	88.3	89.7	66.97	71.24	75.40	77.20	76.71	73.17	69.71	62.40	51.01	32.89	5.67
1523.1	87.9	87.6	89.8	66.80	70.92	74.87	76.36	76.08	72.47	69.06	61.69	50.21	31.98	4.82
1552.9	87.2	86.8	89.4	65.88	70.07	74.12	75.84	75.75	71.57	68.17	60.72	49.07	30.67	3.69
1596.1	86.3	86.2	89.6	63.69	69.13	73.26	75.23	74.98	70.79	67.12	59.56	47.66	28.82	-.96
1655.1	85.4	85.2	89.8	63.85	68.43	72.49	74.62	74.44	69.78	66.03	58.29	46.07	26.85	-3.19

RUN NUMBER	= 127.00 (719.00)
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 511.000
SECONDARY TEMPERATURE (R)	= 515.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 4.956
VELOCITY RATIO	= .864
PRIMARY VELOCITY (FT/SEC)	= 1177.144
MASS FLOW RATIO	= 4.135
PRIMARY MASS FLOW (LB/SEC)	= .335
THRUST (LBS)	= 55.980
ENVIRONMENTAL TEMPERATURE (R)	= 516.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	= 60.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .063
INSTRUMENTATION NOISE FLOOR (DB)	= 65.566

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.26876E+00	137.2
500	1.83497E-01	122.6
1000	7.84389E-01	128.9
2000	1.39856E+00	131.5
4000	1.13310E+00	130.5
8000	9.32251E-01	129.7
16000	5.46053E-01	127.4
31500	2.90917E-01	124.6

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	159.7
20000	162.7
40000	165.8
80000	168.8

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE	OCTAVE BAND SOUND PRESSURE LEVELS							OVER
(DEG)	500	1000	2000	4000	8000	16000	31500	ALL
15.0	102.0	106.0	105.8	100.2	95.2	91.3	86.7	110.4
20.0	101.8	107.7	108.2	103.3	99.5	92.9	88.1	112.3
25.0	101.1	107.9	109.0	104.3	99.3	94.6	91.0	112.9
30.0	99.8	106.8	108.9	105.0	100.9	96.3	92.7	112.6
35.0	97.6	105.6	108.2	105.7	102.6	98.3	94.7	112.4
40.0	95.6	102.3	106.5	105.6	103.1	99.4	95.5	111.3
45.0	92.7	99.5	103.9	104.7	103.9	100.4	96.8	110.2
50.0	90.7	97.4	102.1	103.6	103.5	100.7	97.3	109.3
55.0	88.8	95.1	100.3	102.3	102.5	100.4	97.7	108.2
60.0	86.3	94.0	98.8	101.0	101.7	100.0	97.0	107.2
65.0	88.3	93.7	98.0	100.2	100.9	99.3	97.0	106.6
70.0	87.6	93.0	97.1	99.5	100.1	98.6	96.4	105.9
75.0	87.9	92.6	96.8	98.6	99.3	97.9	96.1	105.2
80.0	87.6	92.0	96.0	98.3	98.8	97.5	95.4	104.7
85.0	87.1	91.5	95.6	97.5	98.1	96.7	94.2	104.0
90.0	86.5	91.2	95.0	97.1	97.9	96.4	93.9	103.6
95.0	86.2	90.7	94.8	96.7	97.4	95.8	93.5	103.2
100.0	85.4	90.8	94.3	96.0	96.8	95.5	93.3	102.7
105.0	84.6	89.6	93.8	95.7	96.5	95.1	92.7	102.3
110.0	84.3	89.3	93.7	95.3	96.0	94.9	92.5	102.0
115.0	83.2	88.7	92.8	94.9	95.8	94.3	91.9	101.4

MODEL THRUST = 55.980 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS									
			26.5	52.9	105.8	211.6	423.2	846.5	1666.5	3333.0	6613.2	13229.4	25452.8
5795.6	78.7(| 78.5)	80.9	72.77	76.75	76.39	70.28	63.74	55.90	42.55	20.44	-19.00	-86.46	-191.38
4385.7	84.5(| 84.2)	85.3	75.07	80.85	81.24	75.92	69.98	61.46	49.99	32.53	1.95	-69.82	-129.95
3549.3	87.7(| 87.3)	87.7	76.19	82.96	83.97	78.47	72.98	65.94	54.09	42.19	14.87	-25.60	-91.02
3000.0	89.9(| 89.2)	88.9	76.36	83.34	85.21	81.14	76.29	69.61	61.43	48.53	26.67	-9.69	-64.45
2615.2	92.0(| 91.1)	89.7	75.32	83.34	85.83	83.04	79.27	73.27	65.71	54.08	34.64	2.55	-46.44
2333.4	93.0(| 92.0)	89.6	74.15	81.01	85.14	84.03	81.08	75.62	68.23	57.53	39.86	10.91	-33.13
2121.3	94.0(| 92.7)	89.1	72.21	79.06	83.38	83.97	82.57	77.74	70.83	60.83	44.49	17.90	-22.41
1958.1	94.6(| 92.9)	88.8	70.98	77.61	82.24	83.58	82.94	78.86	72.46	63.01	47.69	22.92	-14.52
1831.2	95.1(| 92.7)	89.2	69.61	75.99	81.10	82.92	82.67	79.29	73.80	65.76	50.25	26.89	-8.38
1732.1	94.1(| 92.0)	87.7	69.58	75.25	80.01	82.12	82.31	79.42	73.86	65.15	51.26	29.99	-4.67
1655.1	94.0(| 92.1)	87.4	69.97	75.35	79.62	81.70	81.93	79.21	74.65	65.99	52.59	31.18	-.93
1596.9	93.7(| 91.8)	87.1	69.43	74.97	79.67	81.13	81.51	78.88	74.32	66.05	53.02	32.26	1.19
1552.9	93.4(| 91.4)	86.7	70.20	74.99	79.03	80.69	80.91	78.55	74.38	66.26	53.50	33.23	2.92
1523.1	93.1(| 91.0)	86.4	70.03	74.42	78.62	80.43	80.83	78.35	73.88	65.86	53.28	33.36	3.55
1505.7	92.9(| 90.8)	85.8	69.66	73.99	78.10	79.85	80.59	78.25	74.09	66.04	52.62	32.68	3.28
1500.0	92.1(| 90.1)	85.4	69.87	73.71	77.51	79.48	79.85	77.36	72.44	64.50	52.07	32.39	3.00
1505.7	91.4(| 89.4)	85.0	68.78	73.18	77.31	78.99	79.36	76.71	72.11	64.14	51.67	31.93	2.65
1523.1	91.0(| 88.9)	84.3	67.84	72.66	76.86	78.73	78.88	76.34	71.74	63.74	51.17	31.23	1.44
1552.9	90.3(| 88.3)	83.7	66.90	71.97	75.97	77.91	78.14	75.67	70.90	62.78	50.01	29.74	-.57
1594.3	89.7(| 87.7)	83.2	66.33	71.27	75.66	77.15	77.41	75.18	70.46	62.18	49.14	28.39	-2.69
1655.1	89.0(| 86.9)	82.3	65.95	70.35	74.42	76.10	76.85	74.22	69.38	60.84	47.83	26.82	-6.08

RUN NUMBER	= 128.000
AXIAL POSITION OF PRIMARY NOZ, SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 517.000
SECONDARY TEMPERATURE (R)	= 523.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 9.284
VELOCITY RATIO	= .383
PRIMARY VELOCITY (FT/SEC)	= 1184.036
MASS FLOW RATIO	= 3.175
PRIMARY MASS FLOW (LB/SEC)	= .337
THRUST (LBS)	= 27.449
ENVIRONMENTAL TEMPERATURE (R)	= 520.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	= 48.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .020
INSTRUMENTATION NOISE FLOOR (DB)	= 52.690

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
OVERALL	5.36839E-01	127.3	THRUST	POWER LEVEL(DB)
			10000	152.9
500	1.29511E-02	111.1	20000	155.9
1000	4.49660E-02	116.5	40000	158.9
2000	1.17517E-01	120.7	80000	161.9
4000	1.58755E-01	122.0		
8000	1.09521E-01	120.3		
16000	6.01716E-02	117.8		
31500	3.59564E-02	115.6		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	89.7	93.6	95.2	95.3	90.7	89.2	86.5	100.9
20.0	89.4	95.8	97.6	97.5	92.7	88.4	86.9	102.7
25.0	88.8	94.6	98.2	98.2	93.4	87.6	87.4	103.1
30.0	86.9	93.8	98.1	98.7	94.4	87.8	87.0	103.1
35.0	85.8	91.6	97.1	98.3	94.8	89.0	87.3	102.6
40.0	83.6	90.1	95.6	97.8	95.3	90.2	86.8	102.8
45.0	82.2	88.1	93.3	96.1	95.0	91.1	86.9	100.8
50.0	80.8	86.4	91.3	94.2	94.3	91.8	87.5	99.7
55.0	79.6	84.9	89.7	92.0	92.6	91.7	88.0	98.3
60.0	79.8	84.0	88.8	90.6	91.2	90.7	88.0	97.3
65.0	79.2	83.1	87.6	89.3	89.9	89.4	87.6	96.1
70.0	78.1	82.8	86.8	88.8	89.1	88.8	87.0	95.5
75.0	78.2	81.9	86.0	87.3	87.7	87.8	86.3	94.4
80.0	78.1	82.0	85.5	87.3	87.6	87.0	85.8	94.1
85.0	76.9	81.5	85.2	86.7	87.1	86.2	85.2	93.5
90.0	76.8	81.9	84.6	86.1	86.4	85.6	84.6	92.9
95.0	76.1	80.1	83.9	85.5	85.9	84.9	84.0	92.3
100.0	76.0	80.2	83.7	84.7	85.3	84.3	83.3	91.7
105.0	75.1	79.4	83.1	84.2	84.9	83.9	82.8	91.2
110.0	74.5	78.8	82.6	83.6	84.8	83.2	82.1	90.7
115.0	73.8	78.4	82.1	83.1	84.2	82.7	81.5	90.2

MODEL THRUST = 27.449 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 18.5	37.0	74.1	148.2	296.4	592.7	1187.0	2333.9	4630.8	9261.6	18523.2
5795.6	73.2(72.5)	74.2	63.62	67.49	68.99	68.76	63.27	59.33	50.86	34.75	5.58	-46.48	-131.01
4385.7	78.4(77.5)	78.6	65.73	71.32	73.84	73.52	69.06	61.86	56.07	43.15	20.28	-19.72	-84.47
3549.3	81.4(80.3)	80.9	66.98	72.78	76.30	76.11	70.80	63.51	59.79	48.77	29.69	-3.26	-56.29
3000.0	83.6(82.3)	82.4	66.55	73.25	77.66	78.11	73.35	65.48	61.71	51.93	35.34	7.03	-30.22
2615.2	84.9(83.4)	83.1	66.65	72.47	77.86	78.94	74.98	68.14	63.79	54.88	40.03	14.97	-24.86
2333.6	86.2(84.5)	83.5	65.42	71.96	77.41	79.42	76.60	70.53	64.79	56.51	42.94	20.25	-15.61
2121.3	86.7(84.9)	83.8	64.82	70.77	75.93	78.60	77.21	72.39	66.03	58.24	45.63	24.73	-8.14
1958.1	87.0(84.9)	82.5	64.19	69.75	74.60	77.40	77.22	73.65	67.64	60.21	48.34	28.82	-1.76
1831.2	86.7(84.2)	81.7	63.50	68.84	73.54	75.77	76.68	74.49	69.91	61.77	50.47	32.82	5.24
1732.1	86.4(83.7)	81.2	64.17	68.45	73.21	74.85	75.25	73.95	69.61	62.69	51.45	34.23	8.84
1655.1	85.9(82.9)	80.4	64.01	67.93	72.36	73.94	74.30	73.12	69.64	62.91	52.42	35.45	9.19
1596.3	85.7(82.6)	80.1	63.20	67.91	71.91	73.41	73.82	72.86	69.58	62.69	52.66	36.19	10.71
1552.9	85.0(81.8)	79.3	63.55	67.24	71.30	72.54	72.74	72.19	69.13	62.62	52.58	36.48	11.61
1523.1	84.7(81.5)	79.2	63.61	67.55	71.05	72.76	72.82	71.54	68.84	62.39	52.49	36.64	12.70
1505.7	84.7(81.4)	78.7	62.55	67.11	70.81	72.24	72.41	70.98	68.34	61.94	52.17	36.42	12.71
1500.0	83.6(80.3)	78.1	62.46	66.68	70.20	71.68	71.74	70.32	67.81	61.41	51.62	35.96	11.84
1505.7	82.9(79.6)	77.5	61.77	65.78	69.43	71.06	71.22	69.54	67.16	60.73	50.91	35.21	11.01
1523.1	82.1(78.9)	76.8	61.56	65.49	69.16	70.13	70.69	68.85	66.36	59.89	49.99	34.16	9.70
1552.9	81.4(78.2)	76.1	60.50	64.76	68.63	69.63	69.89	68.28	65.81	59.18	49.04	32.96	8.09
1596.3	80.5(77.5)	75.4	59.43	63.91	67.67	68.93	69.51	67.28	64.66	58.03	47.88	31.33	5.85
1655.1	79.5(76.5)	74.5	58.63	63.14	66.88	67.78	68.50	65.96	63.43	56.89	46.39	29.43	3.13

RUN NUMBER	= 120.000
AXIAL POSITION OF PRIMARY NOZ, SECONDARY (INS)	= 0.000
PRIMARY TEMPERATURE (R)	= 526.000
SECONDARY TEMPERATURE (R)	= 534.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 9.788
VELOCITY RATIO	= .731
PRIMARY VELOCITY (FT/SEC)	= 1194.296
MASS FLOW RATIO	= 6.697
PRIMARY MASS FLOW (LB/SEC)	= .335
THRUST (LBS)	= 73.192
ENVIRONMENTAL TEMPERATURE (R)	= 520.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	= 48.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .050
INSTRUMENTATION NOISE FLOOR (DB)	= 63.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JEY

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.48361E+00	134.0
500	2.19661E-01	123.4
1000	5.39639E-01	127.3
2000	6.56717E-01	128.2
4000	4.89985E-01	126.9
8000	3.27681E-01	125.2
16000	1.64066E-01	122.2
31500	8.58569E-02	119.3

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	155.3
20000	158.3
40000	161.3
80000	164.3

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	103.3	105.3	101.4	95.7	89.6	86.5	83.4	108.7
20.0	102.9	106.2	103.3	97.4	91.3	87.1	84.9	109.5
25.0	101.7	106.0	104.5	99.6	94.1	89.0	86.3	109.8
30.0	100.2	104.4	104.0	101.0	95.2	91.3	88.0	109.3
35.0	98.0	102.4	103.7	101.6	97.8	92.6	89.1	108.5
40.0	96.4	100.5	103.0	102.2	99.2	94.6	90.5	108.1
45.0	93.6	98.6	101.3	101.0	99.4	95.5	91.6	107.0
50.0	92.3	95.9	100.1	99.9	98.6	95.5	92.2	105.9
55.0	90.6	96.0	99.4	99.3	98.1	95.3	91.8	105.3
60.0	90.1	94.5	97.5	97.4	97.0	94.8	92.1	103.9
65.0	89.0	93.6	97.1	97.3	96.3	93.8	91.7	103.4
70.0	88.8	92.7	95.8	96.1	95.5	93.3	91.1	102.4
75.0	87.9	92.3	95.5	95.7	94.9	92.9	90.5	102.0
80.0	87.7	91.5	94.7	95.2	94.7	92.5	90.0	101.4
85.0	86.8	90.7	93.8	94.3	93.6	91.6	89.5	100.6
90.0	89.3	90.1	93.1	93.9	93.5	91.1	88.9	100.1
95.0	86.3	89.8	92.7	93.2	92.8	90.6	88.3	99.6
100.0	85.4	89.2	92.5	92.8	92.6	90.1	87.7	99.2
105.0	85.2	88.8	91.9	92.3	92.2	89.6	87.1	98.7
110.0	84.4	88.4	91.7	92.0	91.7	89.0	86.6	98.3
115.0	83.7	88.0	91.0	91.7	91.7	88.4	85.9	97.9

MODEL THRUST = 73.192 FULL SCALE THRUST = 20000.000

L*	PNOB*	DASPL	OCTAVE BAND SOUND PRESSURE LEVELS 30.2	60.5	121.0	242.0	484.0	967.9	1905.6	3811.2	7561.8	15123.7	30247.4
5795.6	73.4(73.3)	78.2	72.99	74.87	70.72	64.16	56.49	49.77	35.30	10.41	-33.53	-107.54	-220.53
4385.7	78.5(78.3)	81.4	75.01	78.17	75.14	68.73	61.31	53.56	43.62	24.06	-9.93	-66.66	-152.90
3549.7	82.4(82.1)	83.5	75.62	79.92	78.22	72.96	66.32	58.41	49.35	32.95	4.88	-41.81	-111.99
3000.0	84.9(84.6)	84.6	75.59	79.75	79.81	75.86	70.15	62.88	54.25	37.92	15.73	-24.03	-83.97
2615.2	86.5(86.0)	84.7	74.54	78.91	80.14	77.73	73.11	65.79	57.71	44.83	23.36	-11.69	-64.32
2333.6	88.3(87.5)	85.2	73.93	78.03	80.49	79.33	75.63	69.19	60.97	49.16	29.67	-1.92	-49.21
2121.3	88.7(87.7)	84.8	71.99	76.97	79.63	79.58	76.76	71.21	63.47	52.46	34.67	5.45	-37.78
1958.1	88.8(87.7)	84.4	71.41	76.00	79.12	78.70	76.72	72.12	65.32	54.92	38.09	11.10	-29.07
1831.2	89.0(87.8)	84.3	70.25	75.65	78.24	78.06	76.90	72.65	65.92	56.01	40.07	14.63	-23.12
1732.1	88.7(87.3)	83.4	70.20	74.63	77.61	77.20	76.39	72.76	66.98	57.46	42.21	17.98	-17.89
1655.1	88.6(87.1)	83.3	69.51	74.16	77.55	77.59	76.09	72.27	67.15	57.90	43.21	19.93	-14.48
1596.3	88.1(86.6)	82.6	69.47	73.41	76.84	76.74	75.60	72.14	67.05	58.02	43.75	21.19	-12.11
1552.9	87.9(86.3)	82.4	69.99	73.42	76.68	76.55	75.24	72.03	66.89	58.03	44.06	22.03	-10.44
1523.1	87.7(86.1)	82.1	68.98	72.71	76.47	76.19	75.22	71.91	66.59	57.84	44.08	22.42	-9.49
1504.7	88.9(85.3)	81.3	68.14	72.09	75.12	75.49	74.24	71.09	66.27	57.58	43.75	22.50	-9.08
1508.0	86.0(85.0)	80.9	67.65	71.52	74.64	75.09	74.18	70.94	66.29	57.62	43.63	22.65	-9.42
1505.7	86.0(84.3)	80.3	67.62	71.12	74.00	74.29	73.48	70.67	65.89	56.41	42.77	21.32	-10.26
1523.1	85.4(83.8)	79.8	66.63	70.68	73.69	73.80	73.12	69.98	64.36	54.61	41.85	20.19	-11.72
1552.9	84.7(83.1)	79.2	66.34	69.90	72.91	73.17	72.54	68.68	63.65	54.62	40.65	18.62	-13.85
1596.3	83.9(82.4)	78.5	65.23	69.23	72.47	72.69	71.90	67.86	62.61	53.59	39.31	16.75	-16.44
1655.1	83.1(81.7)	77.9	64.23	68.56	71.95	71.99	71.19	66.99	61.91	52.16	37.67	14.19	-20.22

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 130.000
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 527.000
PRIMARY PRESSURE RATIO	= 535.000
AREA RATIO	= 2.500
VELOCITY RATIO	= 9.788
PRIMARY VELOCITY (FT/SEC)	= .967
MASS FLOW RATIO	= 1195.438
PRIMARY MASS FLOW (LB/SEC)	= 8.345
THRUST (LBS)	= .333
ENVIRONMENTAL TEMPERATURE (R)	= 182.307
ENVIRONMENTAL PRESSURE (IN.HG)	= 520.988
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.600
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 48.000
INSTRUMENTATION NOISE FLOOR (DB)	= .089
	= 68.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.06310E+01	140.3
500	7.89761E-01	129.0
1000	2.26541E+00	133.6
2000	2.51510E+00	134.0
4000	2.18744E+00	133.4
8000	1.56538E+00	131.9
16000	8.77348E-01	129.4
31500	4.30525E-01	126.3

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.2
20000	163.2
40000	166.2
80000	169.2

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	109.1	111.6	102.5	112.9	96.0	91.6	88.1	116.5
20.0	108.9	112.7	110.0	103.4	98.6	93.4	89.3	118.8
25.0	106.9	112.6	110.6	104.7	100.2	95.5	92.2	115.9
30.0	106.4	111.1	110.3	106.3	102.2	97.7	94.0	115.4
35.0	104.0	109.0	110.2	107.5	104.3	100.1	96.2	114.9
40.0	101.6	106.8	108.9	107.3	105.0	101.0	96.8	113.9
45.0	99.0	104.3	107.2	106.7	105.4	101.9	98.3	112.8
50.0	96.2	102.3	105.8	106.1	105.4	102.4	98.9	112.1
55.0	95.0	100.5	104.6	105.3	105.0	102.6	99.0	111.3
60.0	94.7	100.0	103.2	104.0	103.9	101.9	99.0	110.3
65.0	94.1	98.9	102.3	103.5	103.5	101.3	98.1	109.6
70.0	93.4	98.1	101.9	102.6	102.8	100.5	97.9	108.9
75.0	93.0	97.6	100.7	101.8	101.8	100.1	97.2	108.1
80.0	92.1	97.1	100.1	101.3	101.4	99.8	97.2	107.7
85.0	92.3	96.8	99.6	101.0	101.4	99.3	97.2	107.4
90.0	91.7	95.9	99.3	100.4	100.5	98.9	96.8	106.8
95.0	91.0	95.7	98.8	99.9	100.3	98.6	96.0	106.5
100.0	90.3	94.7	97.9	99.9	99.7	98.3	95.1	105.7
105.0	90.0	94.1	97.8	98.7	99.5	97.8	94.9	105.5
110.0	89.1	93.7	97.3	98.5	99.3	97.4	94.5	105.1
115.0	88.9	93.1	96.7	98.0	99.4	97.4	94.7	104.9

MODEL THRUST = 182.307 FULL SCALE THRUST = 20086.000

L.	PNDB.	OASPL	35.8	OCTAVE BAND SOUND PRESSURE LEVELS 71.5	143.0	286.1	572.2	1144.3	2252.9	4505.9	8948.2	17889.4	35760.8
5795.6	84.4(84.4)	84.1	77.27	79.66	70.30	79.87	60.63	50.58	34.65	5.86	-44.24	-126.94	-250.22
4385.7	84.7(84.6)	86.4	79.53	83.22	80.38	73.05	66.51	57.00	43.54	21.03	-17.62	-80.93	-174.95
3549.3	87.7(87.5)	88.1	79.31	84.97	82.84	76.38	70.49	62.25	51.34	32.55	.70	-51.12	-127.77
3008.6	89.4(89.5)	89.0	80.27	84.97	84.02	79.54	74.38	66.70	56.73	40.38	13.00	-31.26	-96.82
2615.2	92.0(91.6)	89.5	79.07	84.05	85.17	82.06	77.79	71.02	61.53	46.89	22.64	-16.33	-73.60
2333.6	92.9(92.6)	89.4	77.70	82.86	84.89	82.87	79.65	73.39	64.16	50.78	28.41	-6.28	-57.71
2121.3	93.5(92.0)	89.0	75.91	81.18	84.81	83.19	81.03	75.48	67.25	54.82	34.57	2.48	-44.62
1958.1	94.0(93.1)	88.8	74.55	79.92	83.32	83.32	81.43	76.91	69.14	57.46	38.55	8.62	-35.02
1831.9	94.1(93.7)	88.6	73.27	78.81	82.87	83.10	82.06	77.69	70.39	59.23	41.35	13.17	-27.84
1732.1	93.9(92.8)	88.0	73.43	78.70	81.81	82.35	81.69	77.82	71.23	60.53	43.45	16.63	-22.32
1655.1	93.8(92.7)	87.8	73.16	77.96	81.27	82.20	81.55	77.70	70.99	60.63	44.18	18.42	-18.93
1596.3	93.6(92.6)	87.4	72.83	77.44	81.19	81.83	81.07	77.37	71.36	61.26	45.29	20.34	-15.79
1547.9	93.1(91.9)	86.9	72.65	77.21	80.20	81.14	80.51	77.25	70.99	61.08	45.46	21.18	-14.13
1523.1	93.0(91.7)	86.6	71.90	76.93	79.79	80.76	80.29	77.19	71.27	61.69	46.11	22.16	-12.65
1505.7	92.9(91.6)	86.3	72.19	75.87	79.58	80.59	80.40	77.00	71.63	61.73	46.50	22.79	-11.46
1508.0	92.7(90.9)	85.9	71.64	75.77	79.18	80.17	79.56	76.48	70.33	60.65	45.46	21.83	-12.38
1505.7	91.9(90.8)	85.6	70.87	75.54	78.56	79.53	79.29	76.12	70.27	60.57	45.34	21.83	-12.62
1523.1	91.0(89.7)	84.5	70.09	74.51	77.56	78.60	78.68	75.66	69.76	59.66	44.88	20.13	-14.68
1547.9	90.5(89.3)	84.1	69.67	73.71	77.33	78.03	78.20	74.97	68.73	58.82	43.28	18.84	-16.39
1596.3	89.8(88.6)	83.5	68.93	73.06	76.40	77.52	77.68	74.22	67.97	57.86	41.89	16.96	-19.19
1655.1	89.3(88.1)	82.8	67.94	72.12	75.93	76.77	77.43	73.89	67.55	57.19	41.74	16.98	-22.37

RUN NUMBER	= 131.000
AXIAL POSITION OF PRIMARY NNT. SECONDARY (INS.)	= NONE
PRIMARY TEMPERATURE (R)	= 525.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 1380.304
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= .423
THRUST (LBS)	= 18.147
ENVIRONMENTAL TEMPERATURE (R)	= 520.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	= 58.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .100
INSTRUMENTATION NOISE FLOOR (DB)	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL (DB)
OVERALL	1.10177E+01	140.4
500	1.55645E-02	111.9
1000	1.45264E-01	121.6
2000	9.90994E-01	130.0
4000	3.08046E+00	134.9
8000	4.11120E+00	136.1
16000	1.93936E+00	132.9
31500	7.34896E-01	128.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL (DB)
10000	167.8
20000	170.8
40000	173.9
80000	176.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	88.3	99.3	104.6	107.2	108.6	106.6	102.0	113.5
20.0	90.3	100.3	107.3	110.9	112.5	109.4	103.2	116.7
25.0	90.1	100.3	108.3	112.2	113.9	109.4	102.4	117.7
30.0	88.5	98.9	107.9	112.5	113.5	108.2	101.0	117.4
35.0	86.7	97.4	107.0	112.5	112.9	107.3	101.4	116.9
40.0	84.9	95.9	105.5	111.7	111.8	106.6	101.2	116.0
45.0	82.6	92.7	102.9	109.2	110.2	106.1	101.5	114.2
50.0	80.8	90.2	99.8	105.6	108.0	105.8	101.5	112.1
55.0	79.6	87.9	96.2	102.5	105.5	104.7	101.0	110.0
60.0	79.1	87.4	94.7	99.9	103.3	103.2	100.1	108.2
65.0	78.6	86.5	94.2	98.6	102.1	102.0	99.3	107.1
70.0	79.1	87.2	94.1	98.3	101.2	100.9	98.1	106.4
75.0	79.6	87.0	93.7	97.7	100.3	100.3	98.3	105.7
80.0	79.6	86.8	93.1	96.9	99.5	99.6	97.8	105.0
85.0	79.1	86.1	92.8	96.3	98.7	98.9	97.7	104.4
90.0	78.6	85.9	91.9	95.7	98.2	98.5	96.6	103.8
95.0	78.1	85.1	91.3	95.2	97.5	97.9	96.0	103.2
100.0	76.9	84.6	90.6	94.6	97.1	97.4	95.5	102.7
105.0	76.9	84.3	90.1	94.1	96.7	96.9	94.9	102.2
110.0	75.6	83.4	89.3	93.4	96.2	96.4	94.3	101.6
115.0	74.8	82.5	89.1	93.4	95.7	95.9	93.8	101.2

MODEL THRUST = 18.147 FULL SCALE THRUST = 20000.000

L*	PNDB.	OASPL	15.1	30.1	60.2	120.5	241.0	482.0	960.8	1897.7	3785.3	7530.5	15001.1
8795.4	90.7(89.8)	86.0	64.04	74.96	80.20	82.59	83.33	79.53	70.51	57.11	32.46	-11.48	-85.29
4385.7	97.2(96.2)	94.1	68.40	78.47	85.35	88.80	89.87	85.48	75.88	65.01	45.77	11.64	-44.96
3549.3	100.4(99.2)	97.1	70.10	80.27	88.20	91.95	93.25	87.68	77.97	68.80	52.46	24.27	-22.69
3000.0	101.7(100.3)	98.4	69.92	80.33	87.32	93.80	96.43	88.15	78.67	70.29	56.18	31.89	-7.76
2615.2	102.7(101.1)	99.2	69.30	79.90	89.60	94.97	95.06	88.72	80.73	73.03	60.36	38.79	-2.84
2333.4	103.0(101.1)	99.2	68.50	79.02	89.05	95.19	95.01	89.07	81.94	74.76	63.12	43.55	12.05
2121.3	102.7(100.5)	98.3	67.08	77.11	87.34	93.58	94.30	89.53	83.29	76.48	65.63	47.57	18.65
1958.1	101.9(99.3)	96.7	65.99	75.34	84.97	90.62	92.77	89.96	84.19	77.67	67.42	50.53	23.60
1831.2	101.0(98.0)	95.2	65.30	73.56	81.95	88.13	90.38	89.52	84.66	78.20	68.42	52.42	27.85
1732.1	100.1(96.9)	93.9	65.32	73.57	80.67	85.98	89.27	88.47	84.13	78.02	68.41	53.32	29.16
1655.1	99.6(96.2)	93.2	65.21	73.14	80.77	85.16	88.68	87.77	83.87	77.90	68.77	54.02	30.80
1594.3	99.3(95.8)	92.8	66.07	74.05	80.98	85.12	87.86	87.07	84.04	78.15	69.24	54.91	32.41
1552.9	99.0(95.4)	92.4	66.73	74.14	80.81	84.81	87.20	86.70	83.95	77.76	69.01	54.99	31.82
1529.1	98.9(95.4)	91.9	66.90	74.08	80.42	84.19	86.54	86.28	83.28	77.47	68.83	55.02	33.41
1505.7	99.2(96.4)	91.4	66.53	73.62	80.17	84.04	86.41	86.04	83.23	77.53	68.95	55.27	33.87
1488.6	97.5(93.9)	90.8	66.37	73.42	79.11	83.13	85.62	85.25	82.15	76.48	67.91	54.26	32.93
1465.7	96.9(93.2)	90.2	65.51	72.55	78.75	82.52	84.69	84.61	81.65	75.85	67.27	53.59	32.19
1523.1	96.2(92.6)	89.6	64.25	71.33	77.92	81.89	84.21	84.07	80.95	75.22	66.68	52.77	31.16
1552.9	95.8(91.9)	89.2	64.04	71.49	77.28	81.15	83.65	83.33	80.11	74.33	65.58	51.55	29.59
1598.3	96.4(91.8)	88.1	62.50	70.16	76.20	80.22	82.83	82.52	79.24	73.41	64.50	50.17	27.67
1665.1	93.7(90.2)	87.3	61.43	69.00	75.11	79.43	82.07	81.70	78.31	72.49	63.21	48.68	25.25

RUN NUMBER	= 132.000
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 520.000
SECONDARY TEMPERATURE (R)	= 516.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .352
PRIMARY VELOCITY (FT/SEC)	= 1373.715
MASS FLOW RATIO	= .343
PRIMARY MASS FLOW (LB/SEC)	= .425
THRUST (LBS)	= 20.578
ENVIRONMENTAL TEMPERATURE (R)	= 520.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	= 58.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .089
INSTRUMENTATION NOISE FLOOR (DB)	= 88.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	9.33500E+00	139.7
500	2.37024E-02	113.7
1000	4.51311E-01	126.5
2000	1.00196E+00	130.0
4000	2.52252E+00	134.0
8000	3.14285E+00	135.0
16000	1.55163E+00	131.9
31500	6.61044E-01	128.1

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	166.6
20000	169.6
40000	172.6
80000	175.6

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	93.3	101.3	105.8	108.0	108.8	105.9	99.4	113.8
20.0	92.3	101.9	107.7	111.0	112.2	108.0	99.9	117.6
25.0	91.6	101.2	108.6	111.6	112.4	107.5	100.9	116.7
30.0	90.3	100.6	108.1	111.8	111.9	106.4	100.8	116.4
35.0	88.7	98.7	107.0	111.6	111.3	106.2	100.7	115.9
40.0	86.3	96.2	105.3	110.1	110.2	105.9	101.1	114.7
45.0	83.9	93.9	102.3	107.4	108.5	105.6	101.8	112.9
50.0	82.5	91.2	99.2	104.5	107.2	105.5	101.9	111.5
55.0	80.6	88.6	96.3	101.5	104.8	104.2	100.9	109.4
60.0	80.6	87.3	94.2	99.5	102.8	102.7	100.4	107.8
65.0	80.6	87.3	94.1	98.4	101.8	101.5	98.9	106.7
70.0	80.2	87.7	93.6	97.5	100.5	100.4	98.3	105.8
75.0	80.6	87.3	92.9	96.7	99.5	99.2	97.7	104.8
80.0	80.2	87.1	92.6	96.5	98.7	98.5	97.0	104.2
85.0	79.9	86.4	91.5	95.5	98.0	97.9	96.3	103.5
90.0	79.0	85.5	91.4	95.1	97.3	97.0	95.8	102.8
95.0	78.6	85.3	91.0	94.6	96.9	96.6	95.2	102.4
100.0	78.1	85.1	90.6	94.3	96.6	96.1	94.7	102.0
105.0	77.6	84.1	90.1	93.7	96.1	95.7	94.2	101.5
110.0	77.1	83.6	89.3	93.1	95.5	95.0	93.8	100.9
115.0	75.9	83.0	88.8	93.0	94.8	94.4	93.5	100.4

MODEL THRUST = 20.578 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	16.0	32.1	OCTAVE 64.2	BAND 128.3	SOUND 256.9	PRESSURE 513.2	LEVELS 1010.4	2020.8	4009.5	8019.0	16038.1
5798.6	90.3(89.6)	88.0	68.43	76.47	80.85	82.82	82.96	77.98	64.75	52.58	26.75	-19.44	-94.64
4385.7	96.9(96.1)	94.7	69.87	89.48	89.21	88.30	89.04	83.33	71.56	60.11	39.83	3.99	-55.81
3549.3	98.7(97.6)	95.6	71.03	80.64	87.98	90.79	91.16	85.07	75.47	65.63	48.65	19.87	-29.25
3000.0	100.0(98.6)	96.4	71.17	81.43	88.98	92.48	92.29	85.69	76.80	68.02	53.71	27.74	-13.56
2615.2	101.1(99.6)	97.6	70.80	80.78	89.06	93.51	92.94	86.95	79.27	71.23	57.93	35.38	-1.06
2333.6	101.6(99.6)	97.4	69.34	79.31	88.35	93.08	92.85	87.71	80.99	73.50	61.30	40.83	8.66
2121.3	101.2(98.9)	96.3	67.79	77.83	86.12	91.81	92.00	88.42	82.77	75.69	64.33	45.45	15.36
1958.1	101.0(98.3)	95.5	67.15	73.83	83.78	89.62	91.42	89.12	83.69	76.92	66.21	48.56	20.56
1831.9	100.0(97.0)	94.0	65.79	73.80	81.46	86.54	89.65	88.42	83.61	77.08	66.97	50.15	23.77
1732.1	99.3(96.0)	92.9	66.24	72.97	79.88	85.66	88.10	87.45	83.68	77.34	67.52	51.55	26.44
1655.1	98.6(95.3)	92.2	66.67	73.36	80.09	84.32	87.53	86.68	82.76	76.57	67.05	51.66	27.52
1594.3	98.1(94.7)	91.6	66.62	74.03	79.96	83.81	86.57	85.94	82.64	76.47	67.18	52.23	28.84
1542.9	97.5(94.0)	90.9	67.22	73.02	79.48	83.26	85.79	85.03	82.1	76.19	67.07	52.48	29.62
1503.1	97.1(93.5)	90.5	67.02	73.91	79.33	83.18	85.20	84.46	81.68	75.75	66.75	52.36	29.90
1468.7	96.5(92.9)	89.9	66.74	73.25	78.39	82.51	84.65	84.03	81.13	75.27	66.30	52.83	29.40
1440.0	95.8(92.2)	89.3	65.94	72.46	78.30	81.97	84.03	83.12	80.64	74.77	65.88	51.43	29.44
1415.7	95.3(91.7)	88.8	65.46	72.20	77.89	81.39	83.55	82.68	80.07	74.17	65.24	50.97	28.74
1393.1	94.7(91.1)	88.3	64.89	71.88	77.39	80.96	83.08	82.07	79.37	73.43	64.43	50.03	27.98
1372.9	94.0(90.5)	87.6	64.23	70.74	76.86	80.14	82.40	81.54	78.66	72.67	63.59	49.02	27.10
1354.3	93.1(89.6)	86.7	63.44	69.98	75.86	79.17	81.60	80.53	77.67	71.90	62.61	47.86	26.27
1335.1	92.2(88.7)	85.9	61.99	69.10	74.86	78.06	80.54	79.53	76.51	71.12	61.68	46.21	25.47

RUN NUMBER	=	134,000
AXIAL POSITION OF PRIMARY RNT, SECONDARY (INS,)	=	0,000
PRIMARY TEMPERATURE (R)	=	570,000
SECONDARY TEMPERATURE (R)	=	535,000
PRIMARY PRESSURE RATIO	=	3,920
AREA RATIO	=	1,000
VELOCITY RATIO	=	,736
PRIMARY VELOCITY (FT/SEC)	=	1341,818
MASS FLOW RATIO	=	,765
PRIMARY MASS FLOW (LB/SEC)	=	,425
THRUST (LBS)	=	28,501
ENVIRONMENTAL TEMPERATURE (R)	=	519,098
ENVIRONMENTAL PRESSURE (IN.HG)	=	29,400
ENVIRONMENTAL HUMIDITY (PER CENT)	=	54,000
CALIBRATION FACTOR (DB TO DYNES CM)	=	,100
INSTRUMENTATION NOISE FLOOR (DB)	=	69,579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1,332006E+01	141,2
500	4,118836E-02	110,1
1000	3,435975E-01	125,4
2000	1,949016E+00	132,9
4000	4,887868E+00	136,1
8000	3,923375E+00	135,5
16000	1,797726E+00	132,5
31500	1,977096E+00	133,0

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	166,7
20000	169,7
40000	172,7
80000	175,7

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15,0	99,4	103,6	107,9	110,0	108,5	103,1	94,5	114,5
20,0	94,8	104,1	110,3	112,6	113,4	103,4	95,9	116,8
25,0	94,2	104,1	111,3	113,6	111,6	104,3	97,2	117,6
30,0	92,7	103,3	111,2	113,5	111,3	104,5	98,0	117,4
35,0	91,4	101,2	110,3	113,6	111,5	102,4	100,0	117,3
40,0	86,8	99,0	108,3	116,1	113,4	100,3	100,9	116,0
45,0	87,1	96,8	105,6	109,9	109,9	100,0	102,5	114,7
50,0	84,9	94,0	102,3	106,7	106,4	100,0	103,1	112,9
55,0	83,2	91,3	99,1	104,0	106,7	100,5	104,3	111,8
60,0	82,3	89,9	97,3	102,4	105,2	104,8	104,6	110,6
65,0	81,6	89,8	96,3	101,3	103,7	103,6	104,5	109,7
70,0	81,0	89,5	95,8	100,1	102,6	103,2	104,4	109,1
75,0	82,3	89,3	95,3	99,7	101,6	102,5	104,1	108,6
80,0	84,0	88,8	94,4	98,8	101,1	101,8	103,7	108,8
85,0	84,0	88,5	93,9	98,4	100,5	101,1	103,0	107,3
90,0	81,2	87,9	93,3	97,7	99,9	100,5	102,3	106,7
95,0	86,8	87,2	93,2	97,4	99,3	100,0	101,7	106,2
100,0	80,0	87,0	92,5	97,2	98,8	99,5	101,1	105,7
105,0	80,0	86,3	92,4	97,2	98,3	98,9	100,5	105,2
110,0	79,1	85,6	91,9	96,5	97,8	98,3	99,9	104,6
115,0	78,1	82,4	91,5	96,2	97,3	97,9	99,5	104,2

MODEL THRUST = 28,501 FULL SCALE THRUST = 20000,000

L,	PWR	OASPL		OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
			18,9	37,7	75,5	151,0	302,0	604,0	1180,1	2378,7	4718,7	9437,4	18874,8
5595,6	88,61	88,31	87,5	89,19	77,32	81,55	83,34	80,87	72,96	58,48	49,11	12,58	*40,27 *125,96
4385,2	91,71	91,11	90,2	71,00	80,25	80,36	88,48	89,58	76,86	64,69	51,56	28,33	*12,24 *77,77
3549,3	93,11	94,4	95,1	72,19	82,07	84,23	91,34	88,81	79,96	69,23	58,04	38,67	5,26 *48,34
3000,0	98,9	97,9	96,5	72,17	82,61	90,60	92,66	90,07	81,97	73,01	63,09	46,25	17,55 *28,22
2619,2	100,5	99,3	97,6	72,58	81,89	90,95	94,69	91,56	84,33	76,28	67,24	52,16	26,78 *13,51
2333,6	100,2	99,1	97,2	70,47	80,65	89,88	93,57	91,21	85,44	78,64	70,28	56,49	33,50 *2,77
2121,3	101,5	99,5	96,6	69,55	79,26	88,07	92,61	91,84	87,08	81,44	73,55	60,76	39,59 8,35
1956,1	101,2	98,6	95,6	68,06	77,15	85,41	89,74	91,14	87,85	82,94	75,43	63,69	43,62 12,70
1831,2	101,0	98,1	94,9	67,01	75,63	82,86	87,69	90,01	88,01	84,94	77,74	66,31	47,64 16,52
1732,1	100,8	97,5	94,0	66,55	74,16	81,51	86,44	89,00	87,80	85,98	78,99	68,00	50,18 20,46
1655,1	100,9	97,1	93,4	66,25	74,25	80,94	85,58	87,93	87,30	86,31	79,59	68,88	51,70 23,11
1596,3	101,1	97,1	93,2	66,56	74,41	80,26	84,82	87,23	87,09	86,76	80,02	69,66	52,98 27,22
1552,9	101,1	97,4	93,4	67,58	74,59	80,49	84,74	86,68	86,86	86,86	80,07	69,91	53,61 28,47
1523,1	100,7	96,9	92,4	64,32	74,18	79,72	84,69	86,06	86,16	86,55	79,99	69,98	53,91 29,20
1509,7	100,2	96,6	91,9	67,62	73,94	79,31	83,74	85,62	85,58	85,94	79,44	69,52	53,62 29,15
1500,6	99,6	96,4	91,4	66,75	73,41	79,21	83,64	85,04	85,02	85,29	78,82	68,90	53,05 28,66
1495,7	99,2	96,2	90,8	66,31	72,65	78,64	82,74	84,48	84,45	84,64	78,18	68,24	52,34 27,87
1523,1	98,6	96,1	90,2	63,32	72,32	77,89	82,64	83,81	83,81	83,71	77,39	67,32	51,34 26,88
1552,9	97,9	97,4	89,6	65,22	71,51	77,57	82,20	83,11	83,01	83,09	76,51	66,34	50,04 24,98
1596,3	97,5	98,5	88,7	64,65	70,58	76,81	81,35	82,38	82,19	82,13	75,45	65,09	48,41 22,84
1655,1	98,4	99,7	87,9	62,74	70,02	76,10	81,29	81,54	81,45	81,34	74,59	63,89	46,71 20,11

RUN NUMBER	=	135.00 (720.00)
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS,)	=	0.000
PRIMARY TEMPERATURE (R)	=	512.000
SECONDARY TEMPERATURE (R)	=	507.000
PRIMARY PRESSURE RATIO	=	3.500
AREA RATIO	=	2.007
VELOCITY RATIO	=	.350
PRIMARY VELOCITY (FT/SEC)	=	1369.747
MASS FLOW RATIO	=	.079
PRIMARY MASS FLOW (LB/SEC)	=	.428
THRUST (LBS)	=	22.556
ENVIRONMENTAL TEMPERATURE (R)	=	514.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	28.400
ENVIRONMENTAL HUMIDITY (PER CENT)	=	64.000
CALIBRATION FACTOR (MV TO DYNES CM)	=	.071
INSTRUMENTATION NOISE FLOOR (DB)	=	66.500

COUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	5.04874E+00	137.0	THRUST	POWER LEVEL(DB)
			10000	163.5
500	2.044555E-02	113.1	20000	166.5
1000	1.412466E-01	121.5	40000	169.5
2000	7.151296E-01	128.5	80000	172.5
4000	1.449485E+00	131.6		
8000	1.544577E+00	131.9		
16000	7.693596E-01	128.9		
31500	4.085036E-01	126.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	92.4	99.9	106.0	108.8	107.4	104.4	95.4	112.7
20.0	92.2	100.6	106.7	108.9	109.3	103.7	95.3	114.0
25.0	94.9	100.6	107.1	109.6	109.5	104.0	95.9	114.3
30.0	89.6	98.7	106.5	109.3	108.3	101.9	95.8	113.6
35.0	87.1	96.7	105.3	108.8	107.7	101.8	96.4	112.9
40.0	85.3	94.5	103.2	107.0	106.5	102.2	97.6	111.5
45.0	83.3	92.5	100.2	104.3	105.0	102.1	98.0	109.7
50.0	81.6	89.8	97.3	101.7	103.5	101.8	98.6	108.2
55.0	84.8	87.9	94.6	99.1	101.9	101.2	99.4	106.9
60.0	81.2	87.1	93.9	97.3	100.1	99.8	99.0	105.9
65.0	79.6	86.6	92.9	96.4	98.9	98.7	98.6	104.7
70.0	79.9	86.3	92.1	95.8	98.1	98.1	98.9	103.7
75.0	86.2	86.6	93.5	96.9	97.1	97.8	97.7	103.4
80.0	79.6	85.7	91.1	94.4	96.4	96.9	95.6	102.4
85.0	79.0	85.3	90.3	93.7	96.0	97.4	96.2	102.4
90.0	78.6	85.1	90.0	93.2	95.0	95.8	94.6	101.3
95.0	77.8	84.2	89.4	92.7	95.6	96.4	95.1	101.6
100.0	77.4	84.0	88.6	92.1	93.9	94.8	93.5	100.2
105.0	77.0	82.6	88.2	91.7	94.4	95.3	94.0	100.4
110.0	76.1	83.1	87.8	91.6	93.0	93.7	92.5	99.3
115.0	76.1	81.9	87.6	90.8	93.3	94.2	93.0	99.4

MODEL THRUST = 22,556 FULL SCALE THRUST = 20000,000

L	PADB	DASPL	16.8	OCTAVE 33.6	BAND 67.2	SOUND 134.1	PRESSURE 268.7	LEVELS 537.3	1057.8	2115.7	4197.8	8395.0	16791.2
5795.6	88.3(87.5)	86.5	67.21	74.64	80.67	81.14	80.99	75.91	51.82	47.07	20.18	-27.92	-107.69
4395.7	92.8(92.1)	90.5	69.41	77.77	83.78	85.85	85.67	78.38	66.19	54.29	33.22	-3.91	-64.70
3549.3	95.4(94.4)	92.7	69.94	79.58	86.67	88.54	87.82	80.01	69.83	59.64	42.01	11.39	-38.39
3000.0	96.2(95.1)	93.6	70.36	79.22	86.99	88.63	88.25	80.70	71.92	62.84	47.47	21.13	-21.41
2615.2	97.2(95.9)	94.2	68.81	78.43	86.93	90.35	88.90	82.00	74.37	66.01	52.24	28.89	-8.58
2331.6	97.6(95.9)	93.7	63.00	77.21	85.79	89.91	88.75	84.53	78.95	69.22	56.60	35.49	1.69
2121.3	97.5(95.3)	92.7	60.75	75.98	83.68	87.71	86.13	84.41	78.49	71.19	59.38	39.87	8.91
1956.1	97.2(94.6)	91.8	59.63	73.97	81.48	85.74	87.34	84.88	79.98	73.01	61.94	43.78	14.98
1831.2	97.1(94.0)	91.0	59.61	72.67	79.33	83.75	86.27	84.91	81.50	74.79	64.24	46.99	19.86
1732.1	96.6(93.2)	90.1	59.51	72.33	78.72	82.59	85.05	84.05	81.73	75.22	65.08	48.68	22.78
1655.1	96.4(92.7)	89.7	63.29	72.27	78.56	81.91	84.27	83.39	81.88	75.52	65.70	49.84	25.01
1594.3	95.7(92.3)	89.1	62.92	72.29	78.09	81.63	83.72	83.21	80.54	74.30	64.72	49.30	25.24
1542.9	96.2(92.2)	89.0	63.48	72.19	77.68	81.64	83.05	83.09	81.69	75.54	66.14	51.05	27.30
1523.1	95.0(91.4)	88.2	70.04	72.03	77.44	80.78	82.49	82.45	79.77	73.68	64.41	49.55	26.48
1505.7	95.4(91.7)	88.5	63.44	71.75	76.85	80.19	82.21	83.04	80.48	74.49	65.22	50.50	27.66
1500.0	94.0(90.4)	87.2	65.12	71.63	76.49	79.64	81.23	81.47	78.94	72.69	63.71	49.04	26.27
1505.7	94.4(90.8)	87.5	64.33	70.69	75.86	79.14	81.79	82.05	79.36	73.31	64.11	49.39	26.54
1523.1	93.4(89.2)	86.2	61.83	70.34	74.99	78.32	79.49	80.35	77.64	71.55	62.22	47.42	24.35
1552.9	92.9(89.3)	86.0	63.23	68.83	74.30	77.65	80.27	80.63	77.98	71.81	62.41	47.33	23.84
1590.1	91.2(87.7)	84.6	62.65	69.69	73.72	77.41	78.66	78.61	76.25	69.96	60.38	44.98	20.92
1635.1	91.1(87.6)	84.4	61.77	67.52	73.25	76.34	78.68	78.93	76.27	69.99	60.15	44.24	19.41

MACH NUMBER	=	136.00 (809.00)
AXIAL POSITION OF PRIMARY NOZ, SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (R)	=	916.000
SECONDARY TEMPERATURE (R)	=	916.000
PRIMARY PRESSURE RATIO	=	3.900
AREA RATIO	=	2.007
VELOCITY RATIO	=	.873
PRIMARY VELOCITY (FT/SEC)	=	1368.421
MASS FLOW RATIO	=	1.310
PRIMARY MASS FLOW (LB/SEC)	=	.423
THRUST (LBS)	=	33.066
ENVIRONMENTAL TEMPERATURE (R)	=	514.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	=	64.000
CALIBRATION FACTOR (MV TO DYNES/SQ CM)	=	.112
INSTRUMENTATION NOISE FLOOR (DB)	=	70.564

STIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	2.068498E+01	143.2	THRUST	POWER LEVEL(DB)
			10000	167.3
500	7.856308E-02	119.0	20000	170.4
1000	6.248178E-01	128.0	40000	173.3
2000	3.309666E+00	135.2	80000	176.4
4000	5.117338E+01	137.1		
8000	4.782418E+00	136.8		
16000	3.164435E+00	135.0		
31500	3.987572E+00	135.5		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND SOUND PRESSURE LEVELS 1000	2000	4000	8000	16000	31500	OVER ALL
15.0	97.9	105.7	109.3	108.3	105.6	102.4	96.8	114.1
20.0	97.8	109.3	112.0	112.1	109.5	104.6	100.2	117.0
25.0	96.5	109.4	112.8	113.1	111.9	106.0	101.6	117.9
30.0	92.4	105.3	113.2	113.8	111.6	106.6	103.0	118.4
35.0	93.7	104.5	112.6	114.4	112.4	107.6	104.5	118.7
40.0	91.4	101.5	110.6	113.9	112.5	106.3	105.7	118.2
45.0	86.8	99.1	108.4	111.9	112.1	108.7	106.8	117.1
50.0	89.8	99.9	105.1	108.9	110.6	108.7	108.0	115.7
55.0	92.4	94.3	102.2	106.1	106.7	106.0	108.0	114.2
60.0	89.4	93.9	100.7	104.2	102.0	102.2	108.2	113.2
65.0	83.3	94.9	100.3	103.0	100.8	100.3	107.3	112.2
70.0	89.6	94.5	99.6	102.2	104.7	100.8	107.2	111.7
75.0	89.6	94.8	99.1	101.2	103.4	104.9	106.4	110.8
80.0	89.9	94.3	98.6	100.7	102.8	104.1	106.1	110.3
85.0	89.4	93.5	97.7	100.2	102.2	103.5	105.8	109.8
90.0	89.1	92.4	97.1	99.7	101.2	102.4	105.7	109.2
95.0	86.8	92.3	96.9	99.4	101.7	102.9	104.9	109.1
100.0	84.2	90.9	96.1	98.9	100.5	101.6	104.8	108.4
105.0	84.3	90.1	95.7	98.3	101.9	102.0	105.4	108.7
110.0	82.2	89.3	95.4	97.6	99.8	101.0	104.6	107.9
115.0	81.0	88.4	94.7	97.7	101.1	101.3	104.3	107.8

MODEL THRUST = 33.066 FULL SCALE THRUST = 20000.000

L	PWDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 20.6	41.1	82.3	164.6	329.2	658.4	1296.2	2592.4	5143.7	10287.4	20574.9
95.6	86.7(86.3)	85.4	70.91	78.44	82.17	80.80	77.05	71.03	58.84	41.16	9.16	-47.24	*137.43
85.2	92.4(92.5)	91.0	73.21	81.41	87.36	87.14	84.71	76.92	67.40	53.29	28.34	-14.91	-84.34
49.3	97.0(96.1)	94.5	73.76	83.66	89.93	90.34	87.19	80.61	72.14	60.15	39.39	5.61	-52.71
80.0	95.5(93.4)	95.5	74.13	84.59	91.82	92.22	89.55	83.11	76.08	65.48	47.47	+6.94	-31.30
15.2	101.6(101.3)	94.1	73.59	83.43	92.48	94.14	91.57	85.99	79.49	69.86	53.78	26.77	-13.54
33.6	102.9(101.3)	93.4	72.28	82.38	91.67	94.61	92.80	87.43	82.19	73.28	58.66	34.18	+4.00
21.3	103.6(101.6)	94.2	73.53	80.79	90.09	93.43	93.29	88.86	84.54	76.14	62.54	40.08	9.09
98.1	103.2(101.1)	97.2	69.24	78.33	87.53	91.15	92.55	89.65	86.76	78.80	66.00	45.03	12.50
31.2	102.9(100.1)	94.1	68.37	77.28	85.14	88.92	91.24	89.64	87.58	79.94	67.78	47.97	17.36
32.1	103.1(100.1)	95.5	68.85	77.36	84.18	87.56	89.98	89.43	88.48	81.39	69.42	50.53	21.41
95.1	102.8(99.6)	95.0	70.24	78.83	84.14	86.78	89.09	88.90	88.19	80.99	69.64	51.49	23.49
96.3	102.9(99.6)	94.5	70.72	78.87	84.78	86.26	88.51	88.81	88.43	81.36	70.32	52.72	25.65
92.9	102.4(99.1)	94.2	71.01	79.20	85.58	85.55	87.45	88.19	87.97	80.74	70.19	52.94	26.59
23.1	102.3(99.0)	91.0	70.49	78.89	85.14	85.43	86.99	87.56	87.88	81.02	70.40	53.42	27.45
95.7	102.2(98.4)	93.5	70.07	78.93	82.38	84.51	86.53	87.19	87.64	80.83	70.29	53.47	27.77
20.0	101.7(98.2)	93.0	69.84	77.13	81.73	84.35	85.52	86.01	87.65	81.06	70.30	53.53	27.91
95.7	101.2(97.7)	92.7	69.51	76.71	81.59	84.61	86.01	86.41	86.69	79.99	69.48	52.63	26.93
23.1	102.1(97.6)	91.4	68.65	76.51	82.71	83.32	84.71	85.39	86.93	79.87	69.24	52.87	26.19
92.9	102.7(97.1)	91.9	67.73	74.57	81.17	82.57	84.91	85.29	86.95	79.34	69.19	51.94	25.59
96.3	96.2(96.2)	91.2	65.43	73.43	79.91	81.64	83.54	84.52	85.64	78.61	67.81	51.10	24.13
95.1	96.9(91.4)	91.4	64.37	72.24	79.31	81.44	83.54	83.95	85.19	77.93	66.89	48.46	21.39

BJA NUMBER	=	137,088
AXIAL POSITION OF PRIMARY WRT, SECONDARY (INS,)	=	0,000
PRIMARY TEMPERATURE (R)	=	920,000
SECONDARY TEMPERATURE (R)	=	920,000
PRIMARY PRESSURE RATIO	=	3,900
AREA RATIO	=	2,087
VELOCITY RATIO	=	,744
PRIMARY VELOCITY (FT/SEC)	=	1373,719
MASS FLOW RATIO	=	1,477
PRIMARY MASS FLOW (LM/SEC)	=	,427
THRUST (LBS)	=	38,198
ENVIRONMENTAL TEMPERATURE (R)	=	915,000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29,400
ENVIRONMENTAL HUMIDITY (PER CENT)	=	54,000
CALIBRATION FACTOR (WV TO WV/SR CM)	=	,126
INSTRUMENTATION NOISE FLOOR (DB)	=	71,987

SPECTRAL POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2,92246E-01	144,7
500	1,28175E-01	121,1
1000	1,11120E+00	130,5
2000	4,21590E+00	136,2
4000	7,53035E+00	138,8
8000	6,38044E+00	138,0
16000	5,00612E+00	137,0
31500	4,85227E+00	136,9

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	168,8
20000	171,8
40000	174,9
80000	177,9

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15,0	98,8	107,5	110,6	111,1	108,0	103,4	97,9	116,8
20,0	98,9	107,6	112,5	113,3	110,1	105,1	100,3	117,8
25,0	97,1	107,6	113,5	114,1	111,3	106,2	102,7	118,7
30,0	96,8	106,8	114,1	114,9	112,1	107,1	104,0	119,3
35,0	95,1	105,5	113,3	115,2	112,5	108,1	105,8	119,3
40,0	93,0	103,6	111,6	114,3	112,8	109,2	107,6	118,9
45,0	91,4	101,1	108,8	112,7	112,4	109,9	108,7	117,9
50,0	90,0	99,4	105,7	110,1	111,2	110,0	109,7	116,8
55,0	89,3	98,5	103,3	107,9	109,8	109,9	110,6	116,0
60,0	89,3	97,9	102,4	106,8	108,1	108,7	110,0	114,9
65,0	89,4	97,9	101,9	106,0	107,3	108,4	109,4	114,3
70,0	89,1	97,5	101,6	105,5	106,6	107,7	108,8	113,7
75,0	89,3	97,8	101,0	105,3	106,0	107,0	107,2	113,1
80,0	89,3	97,6	100,9	105,2	105,8	106,4	106,7	112,6
85,0	88,7	97,4	100,8	105,0	105,7	106,2	106,0	112,3
90,0	88,7	97,6	100,6	105,3	105,5	106,2	106,1	112,3
95,0	89,0	96,9	100,4	104,8	105,2	105,9	105,5	111,9
100,0	88,9	97,0	100,0	105,0	105,2	106,0	105,9	112,0
105,0	88,6	96,8	100,0	104,4	105,0	105,9	105,5	111,7
110,0	88,0	97,3	99,9	104,6	104,8	105,4	104,6	111,4
115,0	87,8	96,9	99,7	104,4	104,8	105,2	104,6	111,3

MODEL THRUST = 38,198 FULL SCALE THRUST = 20000,000

L	PADB	OASPL	21,9	OCTAVE 43,7	BAND 87,4	SOUND 174,8	PRESSURE 349,6	LEVELS 699,2	1376,6	2753,9	5462,8	10929,9	21851,1
9,6	88,7(88,4)	87,8	71,28	79,95	82,96	83,01	78,79	71,14	58,58	39,92	8,26	-32,51	-146,38
9,2	93,8(93,3)	92,1	73,72	82,48	87,28	87,76	83,74	76,38	66,31	51,46	29,26	-19,96	-91,08
9,3	97,2(96,4)	94,9	73,81	84,28	90,19	90,49	86,99	80,05	72,24	59,65	37,87	,72	-57,88
8,8	98,9(98,8)	97,3	74,96	85,51	92,26	92,78	89,37	82,88	78,82	64,92	46,09	16,28	-35,77
9,2	101,8(100,5)	98,7	74,49	84,89	92,61	94,31	91,19	85,36	79,88	69,81	52,98	24,81	-19,14
9,6	103,3(101,2)	98,8	73,42	84,96	91,89	94,56	92,45	87,22	83,22	73,96	58,61	33,18	-8,48
9,3	104,1(102,1)	98,3	72,64	82,27	90,00	93,71	93,00	89,39	85,61	76,87	62,65	39,24	3,91
8,1	104,2(102,8)	97,6	71,91	81,22	87,46	91,79	92,58	90,14	87,59	79,38	65,94	44,19	10,42
7,2	104,7(102,9)	97,2	71,74	81,00	85,70	90,23	91,71	90,91	89,39	81,43	68,74	48,12	16,44
6,1	104,6(103,5)	96,7	72,24	80,84	85,35	88,56	90,68	90,25	89,47	81,78	69,63	49,90	19,83
5,1	104,8(103,7)	96,5	72,82	81,23	85,18	87,22	90,21	90,42	89,36	81,89	70,13	51,21	22,28
4,3	104,4(103,8)	96,1	72,76	81,17	85,23	86,87	89,79	90,68	89,25	81,93	70,49	52,13	24,12
2,9	103,9(103,6)	96,1	73,19	81,46	84,91	86,11	89,50	89,65	88,43	81,94	70,82	52,88	24,75
3,1	103,4(103,5)	95,7	73,34	81,73	84,86	85,19	89,43	89,24	87,74	80,62	69,56	51,91	23,05
5,7	103,1(103,2)	95,6	72,87	82,05	84,94	84,95	89,43	89,16	87,17	80,19	69,13	51,64	25,05
0,0	103,3(103,3)	95,7	72,94	82,51	84,85	84,89	89,39	89,22	87,30	80,25	69,31	51,88	25,38
5,7	103,4(103,6)	95,9	73,37	83,11	84,93	84,94	89,44	89,24	87,58	80,61	69,72	52,13	24,93
1,1	103,8(103,8)	96,2	73,77	83,53	85,11	85,05	89,63	89,55	87,94	81,02	70,26	52,44	24,25
2,9	103,2(103,5)	96,2	73,93	83,78	85,03	85,17	89,64	89,59	88,28	81,09	70,37	52,49	24,60
6,3	103,2(103,2)	96,2	73,73	83,61	84,94	85,11	89,63	89,79	88,58	81,77	70,32	52,98	24,94
5,1	103,7(103,5)	96,7	73,97	83,29	85,14	87,68	89,78	89,82	88,59	82,19	69,37	52,44	24,91

RUN NUMBER	= 138,000
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS,)	= .0,000
PRIMARY TEMPERATURE (R)	= 522,000
SECONDARY TEMPERATURE (R)	= 522,000
PRIMARY PRESSURE RATIO	= 3,500
AREA RATIO	= 4,896
VELOCITY RATIO	= ,354
PRIMARY VELOCITY (FT/SEC)	= 1376,354
MASS FLOW RATIO	= 1,405
PRIMARY MASS FLOW (LB/SEC)	= ,427
THRUST (LBS)	= 27,304
ENVIRONMENTAL TEMPERATURE (R)	= 515,000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29,400
ENVIRONMENTAL HUMIDITY (PER CENT)	= 54,000
CALIBRATION FACTOR (DY TO DY/SQ CM)	= ,001
INSTRUMENTATION NOISE FLOOR (DB)	= 65,566

ITIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	4,08161E+00	136,1	THRUST	POWER LEVEL(DB)
			10000	131,2
500	2,909326-02	114,6	20000	134,8
1000	1,75434E+01	122,4	40000	137,8
2000	6,97112E+01	128,4	80000	140,8
4000	1,26942E+00	131,1		
8000	1,17729E+00	130,7		
16000	4,97A29E+01	127,0		
31500	2,35540E+01	123,7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15,0	94,1	100,8	104,6	105,9	104,8	100,0	92,5	110,9
20,0	93,9	102,1	106,6	108,3	107,3	100,1	93,4	113,0
25,0	94,2	101,3	106,5	108,0	107,0	100,3	93,5	112,7
30,0	94,3	99,8	106,9	106,7	107,2	100,3	93,7	113,0
35,0	89,4	98,1	105,4	108,3	107,0	100,2	94,4	112,4
40,0	88,9	95,3	103,1	106,0	106,0	100,8	95,4	111,1
45,0	84,8	93,4	100,3	104,4	104,5	100,4	95,3	109,3
50,0	85,2	90,7	97,2	101,6	103,2	100,9	96,6	107,7
55,0	81,6	88,5	95,3	99,4	101,2	100,0	97,2	106,2
60,0	80,9	86,9	93,0	97,3	99,6	98,8	96,4	104,7
65,0	80,4	87,0	92,9	96,0	98,2	97,6	96,1	103,6
70,0	80,1	84,9	92,1	95,2	97,1	96,8	95,7	102,8
75,0	80,1	86,3	91,9	94,6	96,2	96,3	94,6	101,9
80,0	79,5	85,6	90,7	93,6	95,2	94,8	93,7	101,0
85,0	78,2	83,2	90,0	92,8	94,3	94,0	93,0	100,2
90,0	78,9	84,3	89,7	92,6	93,8	93,5	92,5	99,8
95,0	78,3	83,0	89,1	92,0	93,4	93,1	91,9	99,3
100,0	77,9	83,4	88,0	91,4	93,0	92,8	91,6	98,8
105,0	77,6	83,2	87,7	91,3	92,7	92,7	92,2	98,5
110,0	76,4	82,5	87,5	90,6	92,4	91,9	90,8	97,9
115,0	78,1	82,1	87,2	89,5	91,5	91,0	89,5	97,2

MODEL THRUST = 27,304 FULL SCALE THRUST = 20090,000

L	PHOTO	BASE	OCTAVE BAND SOUND PRESSURE LEVELS 19,9	39,9	79,9	159,8	319,6	641,2	1284,9	2577,8	5162,6	10337,2	20676,4	
95,6	89,2	84,1	84,1	86,27	74,65	71,39	79,36	77,43	70,19	57,66	48,94	11,74	-46,69	-124,91	
95,7	92,5	87,2	88,4	70,27	70,42	82,91	84,39	82,64	73,84	62,54	49,67	20,69	-13,87	-87,73	
90,3	91,4	91,3	90,4	71,39	77,45	84,61	85,19	84,37	76,21	65,87	54,89	25,81	2,88	-60,94	
90,0	94,7	93,2	92,3	78,98	79,44	86,46	86,47	86,42	78,04	68,42	58,68	42,15	13,89	-21,33	
85,9	95,4	94,9	92,9	78,13	79,13	86,24	86,34	87,24	79,34	72,67	63,04	47,28	22,24	-17,59	
83,6	96,3	94,3	92,5	80,73	77,68	84,84	86,56	87,33	81,14	73,42	65,16	51,61	28,97	-8,84	
71,3	89,9	84,2	81,2	67,67	78,0	83,34	86,04	86,77	81,31	74,74	66,97	54,38	33,52	-,75	
98,1	95,4	93,2	92,5	80,61	84,82	89,59	89,67	89,13	82,95	76,86	69,38	57,91	38,05	7,52	
91,2	89,3	93,3	89,4	85,29	82,47	89,01	83,20	84,73	82,73	79,11	72,94	60,71	41,29	12,59	
92,1	94,5	91,5	89,3	85,32	84,32	87,49	91,06	89,63	82,18	77,96	71,55	60,22	42,84	15,45	
95,1	94,5	93,3	91,7	89,19	81,83	87,55	89,79	92,66	91,61	78,19	71,48	60,99	44,05	17,78	
96,1	93,8	97,3	93,3	89,51	87,31	87,19	91,25	91,17	84,01	78,23	71,03	61,42	44,98	19,56	
92,9	91,1	93,0	90,5	89,67	91,49	78,35	93,84	91,21	83,13	77,43	70,01	60,93	44,82	19,49	
93,1	92,3	92,3	91,2	89,19	86,19	77,55	92,35	92,35	84,35	76,73	69,38	61,41	44,39	20,18	
95,7	91,5	89,3	89,3	84,44	78,29	75,53	73,47	90,84	83,15	76,14	69,14	60,94	44,28	20,15	
90,0	91,4	87,2	84,2	84,33	83,07	79,31	74,15	90,13	78,21	75,74	69,45	60,87	43,99	19,91	
95,7	90,7	87,3	91,3	83,44	84,99	74,99	77,53	90,84	82,74	75,24	68,64	60,86	43,18	19,17	
93,1	92,4	89,2	91,3	88,72	88,72	79,19	79,89	90,19	82,39	74,45	68,21	59,13	42,31	17,97	
92,0	89,5	88,3	91,0	82,27	80,53	83,41	78,45	92,92	84,03	73,58	67,13	57,67	41,00	16,19	
90,3	88,5	85,4	91,0	87,53	86,53	85,14	79,13	93,99	84,52	69,94	65,37	55,97	39,33	13,69	
99,1	87,3	84,2	91,3	83,84	86,93	91,44	94,14	94,94	94,81	91,59	84,66	44,38	33,43	11,34	

RUN NUMBER	= 139.000
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 922.000
SECONDARY TEMPERATURE (R)	= 922.000
PRIMARY PRESSURE RATIO	= 3.000
AREA RATIO	= 4.000
VELOCITY RATIO	= .873
PRIMARY VELOCITY (FT/SEC)	= 1378.394
MASS FLOW RATIO	= 2.484
PRIMARY MASS FLOW (LB/SEC)	= .425
THRUST (LBS)	= 94.424
ENVIRONMENTAL TEMPERATURE (R)	= 515.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	= 49.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .079
INSTRUMENTATION NOISE FLOOR (DB)	= 67.587

JC POWER AND SOUND POWER LEVEL FOR MODEL JET

EQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
VERALL	6.428643E+00	139.3	THRUST	POWER LEVEL(DB)
			10000	101.8
500	1.920018E+01	122.8	20000	104.8
1000	1.191134E+02	130.8	40000	107.8
2000	2.368952E+02	133.4	80000	110.9
4000	1.853235E+02	132.6		
8000	1.354904E+02	131.3		
16000	7.027650E+01	128.5		
31500	9.004808E+01	129.5		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	102.0	111.2	108.0	103.0	99.8	99.5	91.8	114.2
20.0	104.2	109.3	110.2	106.1	102.6	94.9	91.5	114.9
25.0	101.5	111.0	111.4	102.8	101.0	99.8	92.1	115.2
30.0	99.9	107.3	111.7	104.8	102.9	99.7	93.3	114.9
35.0	98.0	109.6	110.1	106.2	103.9	97.4	94.7	114.8
40.0	99.4	103.9	108.4	109.6	105.0	99.0	96.1	113.2
45.0	97.3	108.9	105.8	108.2	105.2	102.4	97.9	111.6
50.0	94.5	97.7	103.1	104.9	104.5	101.3	99.9	110.4
55.0	90.7	93.0	101.1	103.4	103.8	101.8	101.4	109.7
60.0	87.9	94.8	99.7	101.7	102.8	101.7	103.2	109.2
65.0	87.8	94.2	99.0	100.8	101.8	101.5	103.2	108.6
70.0	87.1	93.3	98.8	100.1	101.2	100.9	102.2	107.8
75.0	87.8	92.8	97.3	99.1	100.2	99.3	101.1	106.9
80.0	87.1	92.2	96.6	98.5	99.8	99.2	100.9	106.5
85.0	89.3	91.9	96.2	98.4	99.3	98.9	100.2	106.8
90.0	87.9	91.3	95.9	98.2	99.0	98.9	99.7	105.6
95.0	87.1	92.8	95.7	98.2	98.7	98.2	99.2	105.3
100.0	88.9	92.9	95.3	97.6	98.4	98.8	99.5	105.0
105.0	89.5	93.1	97.2	97.3	98.2	97.8	98.8	104.7
110.0	89.9	93.6	97.3	97.3	98.0	97.4	98.5	104.5
115.0	89.8	93.6	97.1	98.0	97.8	97.2	98.5	104.3

MODEL THRUST = 94.424 FULL SCALE THRUST = 25248.000

La	PADA	DATA		BAND	SOUND	PRESSURE	LEVELS				
			20.1	57.2	104.3	9.8.9	417.3	834.6	1663.7	3789.4	6720.4	13441.3	26882.9
0.0	87.3	87.11	85.3	73.50	82.49	90.93	96.17	90.49	81.30	87.97	26.11	102.86	179.89	193.74
0.2	87.2	87.41	87.8	73.50	82.40	93.94	100.88	99.35	83.67	83.87	26.47	8.16	155.89	124.39
0.3	87.2	87.41	87.5	76.35	86.28	97.69	97.57	94.84	84.55	78.24	43.37	18.86	123.42	90.31
0.4	87.2	87.41	87.2	78.59	83.47	89.21	83.37	78.38	65.23	62.26	89.31	37.68	98.39	83.67
0.2	87.2	87.11	87.0	75.84	83.09	87.47	96.24	90.79	82.47	85.88	94.19	35.14	2.38	65.49
0.6	87.2	87.11	87.2	74.27	82.73	87.12	96.37	82.88	85.44	88.82	95.35	43.85	12.85	63.39
0.8	87.2	87.11	87.2	72.87	82.19	85.18	91.25	88.24	77.84	92.19	89.35	85.19	39.73	20.27
0.1	87.2	87.21	87.2	71.84	78.26	83.42	86.89	84.87	73.49	93.24	65.68	91.22	78.19	118.89
1.2	87.2	87.41	87.2	69.81	78.69	82.19	86.19	84.89	82.89	93.78	88.78	98.38	31.28	43.79
1.4	87.2	87.21	87.2	69.83	78.21	81.62	82.81	83.58	81.89	83.27	71.68	87.88	53.87	2.81
1.1	87.2	87.21	87.2	69.9	78.69	82.74	82.61	82.99	81.87	81.99	77.49	49.19	37.88	8.26
1.3	87.2	87.21	87.2	71.82	79.35	81.99	82.73	81.87	80.31	77.17	69.15	38.89	7.10
1.0	87.2	87.11	87.1	71.29	79.19	81.29	82.69	81.89	79.89	78.39	70.11	39.87	8.61
1.1	87.2	87.21	87.2	69.67	78.79	81.14	81.77	81.19	79.59	78.66	70.69	40.69	9.65
1.3	87.2	87.21	87.2	69.19	78.19	79.33	81.89	81.29	79.59	78.13	70.78	39.21	9.84
1.2	87.2	87.31	87.2	68.32	77.37	78.99	81.91	81.12	79.99	78.39	71.87	38.26	10.89	9.68
1.7	87.2	87.41	87.2	67.71	77.02	78.39	81.63	81.19	79.25	78.31	71.11	37.78	10.19	8.67
1.1	87.2	87.41	87.2	67.63	77.11	77.47	78.71	81.33	78.95	77.83	70.71	37.22	11.49	7.97
2.0	87.2	87.41	87.2	66.67	76.39	77.09	78.99	80.99	78.25	77.29	69.17	36.53	10.44	6.19
2.1	87.2	87.41	87.2	65.43	76.19	76.51	78.15	78.91	77.85	76.89	68.49	35.27	10.08	6.11
2.4	87.2	87.41	87.2	65.43	71.22	75.84	76.54	78.08	77.39	76.84	67.78	34.49	11.38	6.38

RUN NUMBER	=	148,088
AXIAL POSITION OF PRIMARY NOZ, SECONDARY (INS,)	=	0,000
PRIMARY TEMPERATURE (R)	=	522,000
SECONDARY TEMPERATURE (R)	=	525,000
PRIMARY PRESSURE RATIO	=	3,500
AREA RATIO	=	4,056
VELOCITY RATIO	=	,748
PRIMARY VELOCITY (FT/SEC)	=	1376,364
MASS FLOW RATIO	=	1,359
PRIMARY MASS FLOW (LBM/SEC)	=	,423
THRUST (LBS)	=	83,419
ENVIRONMENTAL TEMPERATURE (R)	=	515,000
ENVIRONMENTAL PRESSURE (LBM/FT2)	=	20,483
ENVIRONMENTAL HUMIDITY (PER CENT)	=	49,000
CALIBRATION FACTOR (DB TO DYNE CM)	=	,069
INSTRUMENTATION NOISE FLOOR (DB)	=	88,587

Reproduced from best available copy.

SC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	1.250000E+01	141.0	THRUST	POWER LEVEL(DB)
			18000	101.3
903	2.912490E-01	124.6	20000	144.3
1000	1.378450E+00	131.4	40000	148.5
2001	2.837446E+00	134.5	60000	172.0
4000	2.284130E+00	133.5		
8000	1.495554E+00	132.0		
16000	2.221441E+00	133.0		
31904	1.349316E+00	131.0		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	355	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
25.0	108.0	108.0	110.0	105.0	101.0	91.0	91.0	114.0
30.0	114.0	111.0	111.0	107.0	101.0	90.0	92.0	115.0
35.0	113.0	110.0	112.0	106.0	101.0	90.0	92.0	115.0
40.0	111.0	110.0	112.0	106.0	101.0	90.0	92.0	115.0
45.0	111.0	110.0	111.0	106.0	101.0	90.0	92.0	115.0
50.0	110.0	110.0	110.0	105.0	101.0	90.0	92.0	114.0
55.0	110.0	109.0	109.0	104.0	100.0	89.0	92.0	113.0
60.0	109.0	108.0	108.0	103.0	99.0	89.0	92.0	112.0
65.0	108.0	107.0	107.0	102.0	98.0	88.0	91.0	111.0
70.0	107.0	106.0	106.0	101.0	97.0	87.0	90.0	110.0
75.0	106.0	105.0	105.0	100.0	96.0	86.0	89.0	109.0
80.0	105.0	104.0	104.0	99.0	95.0	85.0	88.0	108.0
85.0	104.0	103.0	103.0	98.0	94.0	84.0	87.0	107.0
90.0	103.0	102.0	102.0	97.0	93.0	83.0	86.0	106.0
95.0	102.0	101.0	101.0	96.0	92.0	82.0	85.0	105.0
100.0	101.0	100.0	100.0	95.0	91.0	81.0	84.0	104.0
105.0	100.0	99.0	99.0	94.0	90.0	80.0	83.0	103.0
110.0	99.0	98.0	98.0	93.0	89.0	79.0	82.0	102.0
115.0	98.0	97.0	97.0	92.0	88.0	78.0	81.0	101.0

MODEL THRUST = 83,419 FULL SCALE THRUST = 21000,000

ANGLE	PWL	63	125	250	500	1000	2000	4000	8000	16000	31500	OVERALL
		24.7	51.2	112.8	247.9	491.9	981.6	1973.7	3947.5	7930.9	16017.9	28193.7
25	87.91	84.81	88.4	96.37	91.17	91.25	88.14	81.83	69.14	58.69	51.17	101.24
30	89.71	87.61	91.2	97.27	92.09	93.02	89.94	83.66	72.38	61.38	54.07	103.41
35	91.31	89.41	91.0	97.06	93.17	93.44	90.87	84.58	73.27	61.87	60.39	104.24
40	92.71	90.81	91.4	97.27	93.45	93.13	91.33	85.41	73.14	62.59	59.67	104.94
45	93.71	91.91	91.4	96.87	93.86	94.03	91.81	86.31	75.35	63.53	58.23	105.41
50	94.31	92.21	91.7	95.77	93.97	93.89	92.13	87.04	76.22	64.32	56.83	105.97
55	94.61	92.41	91.8	94.97	93.67	93.59	92.33	87.44	77.14	65.44	57.75	106.41
60	94.71	92.51	91.9	94.47	93.37	93.27	92.31	87.24	77.24	65.84	58.35	106.37
65	94.61	92.41	91.8	94.07	93.07	92.97	92.13	87.04	77.14	65.84	58.35	106.21
70	94.31	92.11	91.6	93.77	92.77	92.67	91.83	86.74	76.84	65.54	58.05	105.91
75	93.91	91.71	91.2	93.37	92.37	92.27	91.43	86.34	76.44	65.14	57.65	105.51
80	93.41	91.21	90.7	92.87	91.87	91.77	90.93	85.84	75.94	64.64	57.15	105.01
85	92.81	90.61	90.1	92.27	91.27	91.17	90.33	85.24	75.34	64.04	56.55	104.41
90	92.11	89.91	89.4	91.57	90.57	90.47	89.63	84.54	74.64	63.34	55.85	103.71
95	91.31	89.11	88.6	90.77	89.77	89.67	88.83	83.74	73.84	62.54	55.05	102.91
100	90.41	88.21	87.7	89.87	88.87	88.77	87.93	82.84	72.94	61.64	54.15	102.01
105	89.41	87.21	86.7	88.87	87.87	87.77	86.93	81.84	71.94	60.64	53.15	101.01
110	88.31	86.11	85.6	87.77	86.77	86.67	85.83	80.74	70.84	59.54	52.05	99.91
115	87.11	84.91	84.4	86.57	85.57	85.47	84.63	79.54	69.64	58.34	50.85	98.71

RUN NUMBER	=	(41.00 (721.00)
AXIAL POSITION OF PRIMARY NAT, SECONDARY (INS,)	=	0.000
PRIMARY TEMPERATURE (R)	=	930.000
SECONDARY TEMPERATURE (R)	=	930.000
PRIMARY PRESSURE RATIO	=	3.900
AREA RATIO	=	9.700
VELOCITY RATIO	=	.954
PRIMARY VELOCITY (FT/SEC)	=	1380.041
MASS FLOW RATIO	=	2.030
PRIMARY MASS FLOW (LBM/SEC)	=	.475
THRUST (LBS)	=	35.450
ENVIRONMENTAL TEMPERATURE (R)	=	910.000
ENVIRONMENTAL PRESSURE (LB/SQ)	=	29.000
ENVIRONMENTAL HUMIDITY (PER CENT)	=	30.000
CALIBRATION FACTOR (PF TO DY/SQ CM)	=	.045
INSTRUMENTATION NOISE FLOOR (DB)	=	62.385

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
			THRUST	POWER LEVEL(DB)
OVERALL	3.935896E-08	135.9	10000	130.0
500	3.161415E-02	115.0	20000	143.0
1000	1.229531E-01	121.0	40000	146.0
2000	5.940427E-01	127.4	60000	149.0
4000	2.281351E+01	129.7		
8000	8.897881E-01	129.9		
16000	8.318221E-01	129.8		
31500	3.931495E-01	125.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	250	OCTAVE BAND SOUND PRESSURE LEVELS (DB) 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	94.3	98.7	103.2	102.6	98.9	93.4	84.3	108.1	
30.0	94.1	100.5	104.1	104.7	101.5	96.1	91.3	109.5	
45.0	96.2	102.1	105.2	104.6	102.4	98.6	93.2	110.2	
60.0	91.2	98.1	103.2	103.1	102.9	97.4	90.1	108.5	
75.0	93.1	97.6	104.5	104.2	103.2	98.8	94.8	110.3	
90.0	87.3	93.2	102.3	103.9	104.8	103.9	98.1	110.7	
105.0	91.9	93.0	98.9	102.8	104.5	103.6	97.7	110.3	
120.0	91.7	91.2	96.5	97.4	103.0	101.4	96.6	108.4	
135.0	92.9	93.6	96.5	97.5	102.1	101.9	97.8	108.9	
150.0	91.9	89.3	94.5	97.8	101.7	100.8	96.9	108.5	
165.0	91.2	87.2	93.8	97.6	99.8	99.9	97.2	107.8	
180.0	85.9	87.1	92.7	96.8	98.5	97.5	97.8	108.4	
195.0	89.8	88.5	92.6	95.7	97.8	98.1	95.1	107.6	
210.0	93.9	94.3	94.1	96.6	98.2	97.7	96.3	107.9	
225.0	96.6	97.2	97.7	99.7	95.8	97.5	93.7	107.2	
240.0	97.3	98.4	99.8	97.0	98.1	98.4	93.9	107.3	
255.0	98.4	99.8	98.8	97.5	95.8	94.2	94.2	105.8	
270.0	99.5	97.8	98.8	97.0	98.8	95.1	93.7	102.3	
285.0	97.9	98.1	97.8	97.3	99.8	95.4	98.1	98.7	
300.0	97.8	97.8	97.8	97.2	99.5	96.5	92.5	99.2	
315.0	98.5	97.8	97.8	98.2	98.8	96.8	92.8	98.3	

MODEL THRUST = 39.398 FULL SCALE THRUST = 20100.000

				31.5	63.0	125.0	250.0	500.0	1000.0	2000.0	4000.0	8000.0	16000.0
9778.6	97.4	99.0	99.2	97.8	98.8	94.8	94.9	91.3	84.6	78.4	74.2	68.2	58.8
9283.7	97.5	98.7	98.3	97.3	97.9	93.7	93.5	89.5	82.9	76.8	72.3	66.3	57.5
8788.9	97.6	98.4	98.4	97.5	98.2	93.9	93.8	89.8	83.2	77.1	72.6	66.6	57.8
8294.0	97.6	98.8	98.8	97.8	98.5	94.2	94.1	90.2	83.6	77.5	73.0	67.0	58.2
7799.2	97.7	99.1	99.2	98.1	98.8	94.5	94.4	90.5	84.0	77.9	73.4	67.4	58.6
7304.3	97.8	99.5	99.6	98.5	99.2	94.9	94.8	90.9	84.4	78.3	73.8	67.8	59.0
6809.5	97.9	99.8	100.0	98.8	99.5	95.2	95.1	91.2	84.7	78.6	74.1	68.1	59.3
6314.6	98.0	100.2	100.4	99.2	99.9	95.6	95.5	91.6	85.1	79.0	74.5	68.5	59.7
5819.8	98.1	100.5	100.7	99.5	100.2	95.9	95.8	91.9	85.4	79.3	74.8	68.8	60.0
5324.9	98.2	100.9	101.1	99.9	100.6	96.3	96.2	92.3	85.8	79.7	75.2	69.2	60.4
4830.1	98.3	101.2	101.4	100.2	100.9	96.6	96.5	92.6	86.1	80.0	75.5	69.5	60.7
4335.2	98.4	101.6	101.8	100.6	101.3	97.0	96.9	93.0	86.5	80.4	75.9	69.9	61.1
3840.4	98.5	101.9	102.1	100.9	101.6	97.3	97.2	93.3	86.8	80.7	76.2	70.2	61.4
3345.5	98.6	102.3	102.5	101.3	102.0	97.7	97.6	93.7	87.2	81.1	76.6	70.6	61.8
2850.7	98.7	102.6	102.9	101.6	102.3	98.0	97.9	94.0	87.5	81.4	76.9	70.9	62.1
2355.8	98.8	103.0	103.2	102.0	102.7	98.4	98.3	94.4	87.9	81.8	77.3	71.3	62.5
1861.0	98.9	103.3	103.6	102.3	103.0	98.7	98.6	94.7	88.2	82.1	77.6	71.6	62.8
1366.1	99.0	103.7	103.9	102.7	103.4	99.1	99.0	95.1	88.6	82.5	78.0	72.0	63.2
871.3	99.1	104.0	104.3	103.0	103.7	99.4	99.3	95.4	88.9	82.8	78.3	72.3	63.5
376.4	99.2	104.4	104.6	103.4	104.1	99.8	99.7	95.8	89.3	83.2	78.7	72.7	63.9

SUB NUMBER	• 142,000
AXIAL POSITION OF PRIMARY NAT, SECONDARY (INS.)	• 0.000
PRIMARY TEMPERATURE (R)	• 522.000
SECONDARY TEMPERATURE (R)	• 520.000
PRIMARY PRESSURE RATIO	• 3.900
AREA RATIO	• 9.700
VELOCITY RATIO	• .674
PRIMARY VELOCITY (FT/SEC)	• 1382.930
MASS FLOW RATIO	• 5.885
PRIMARY MASS FLOW (LBM/SEC)	• .422
THRUST (LBS)	• 89,960
ENVIRONMENTAL TEMPERATURE (R)	• 519.000
ENVIRONMENTAL PRESSURE (IN.HG)	• 29.860
ENVIRONMENTAL HUMIDITY (PER CENT)	• 29.000
CALIBRATION FACTOR (DB TO PWR-CM)	• .071
INSTRUMENTATION NOISE FLOOR (DB)	• 66.500

TOP BOARD AND SOUND POWER LEVEL FOR EACH OF

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST
OVERALL	8.0055E-02	139.4	
			THRUST POWER LEVEL(DB)
			10000 139.0
630	3.7749E-01	125.8	20000 142.8
1600	1.1766E-01	130.7	40000 145.8
2500	1.9087E-01	132.9	80000 148.9
4000	1.2628E-01	131.0	
5000	1.4870E-01	131.7	
10000	1.2031E-01	130.8	
31500	8.1872E-01	139.1	

DIFFERENTIAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
ANGLE	31.5	1600	2500	4000	5000	10000	31500	ALL
15.0	103.0	104.0	104.1	101.4	93.4	97.0	92.6	112.3
20.0	104.3	104.2	102.4	104.1	96.6	96.2	93.4	113.4
25.0	104.9	104.2	102.7	104.3	105.6	97.2	94.5	113.5
30.0	104.1	103.6	103.6	103.6	101.7	96.8	96.1	113.6
35.0	104.2	104.2	104.0	104.0	102.2	98.0	98.0	113.6
40.0	104.6	104.0	104.2	103.1	103.7	98.9	97.8	113.8
45.0	103.3	103.6	104.9	103.3	104.1	99.6	99.0	113.8
50.0	103.7	103.3	103.3	103.1	103.5	99.4	99.4	113.8
55.0	103.4	103.1	103.8	103.8	104.0	100.2	100.0	113.9
60.0	104.0	104.2	104.2	104.2	104.2	101.0	101.0	114.0
65.0	103.5	103.7	103.8	103.8	103.8	102.3	102.3	114.1
70.0	104.5	104.6	104.0	104.0	104.0	103.1	103.1	114.2
75.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
80.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
85.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
90.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
95.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
100.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
105.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
110.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
115.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
120.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
125.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
130.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
135.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
140.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
145.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
150.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
155.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
160.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
165.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
170.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
175.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2
180.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	114.2

NOISE THRUST = 89,960 TOTAL STATIC THRUST = 89960.370

ANGLE	FREQ	CORR	OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
			31.5	63.0	125.0	250.0	500.0	1000.0	2000.0	4000.0	8000.0	16000.0	31500.0
0.0	93.11	93.11	91.5	93.69	96.76	96.57	94.20	89.90	90.17	80.31	84.36	-22.29	-112.88	-171.40
5.0	93.39	93.51	91.6	93.87	96.83	96.97	92.68	89.37	89.61	86.83	68.58	-98.26	-112.80	-183.15
10.0	93.92	93.92	91.7	94.05	96.89	96.94	91.17	91.12	95.21	87.38	7.73	-112.80	-112.80	-188.48
15.0	94.08	93.98	91.7	94.10	96.91	96.97	89.67	91.61	91.07	89.68	88.27	-22.80	-112.80	-177.08
20.0	94.11	94.05	91.7	94.12	96.92	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
25.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
30.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
35.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
40.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
45.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
50.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
55.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
60.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
65.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
70.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
75.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
80.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
85.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
90.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
95.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
100.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
105.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
110.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
115.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
120.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
125.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
130.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
135.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
140.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
145.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
150.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
155.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
160.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
165.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
170.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
175.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51
180.0	93.91	93.98	91.7	94.05	96.91	96.97	89.67	91.79	92.89	90.55	89.26	-81.80	-112.80	-165.51

RUN NUMBER	=	143,888
AXIAL POSITION OF PRIMARY NOZ, SECONDARY FINS,)	=	0.000
PRIMARY TEMPERATURE (R)	=	538.000
SECONDARY TEMPERATURE (R)	=	537.000
PRIMARY PRESSURE (PSIG)	=	3.500
AREA RATIO	=	9.788
VELOCITY RATIO	=	.748
PRIMARY VELOCITY (FT/SEC)	=	1388.881
MASS FLOW RATIO	=	6.881
PRIMARY MASS FLOW (LBM/SEC)	=	.470
THRUST (LBS)	=	188.296
ENVIRONMENTAL TEMPERATURE (R)	=	523.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	30.000
ENVIRONMENTAL HUMIDITY (PER CENT)	=	37.000
CALIBRATION FACTOR (DB TO PSIG)	=	.000
INSTRUMENTATION NOISE FLOOR (DB)	=	88.587

ATTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	1.5049356+03	181.5	THRUST	POWER LEVEL(DB)
			18848	181.1
900	8.2186866-01	129.8	31808	184.1
1800	2.2196356+00	133.7	37808	187.1
2700	3.9246756+00	135.9	40808	178.1
3600	2.9261456+00	134.7		
4500	2.2477176+00	133.6		
5400	1.9333486+00	132.8		
36900	7.2833746+01	138.6		

REFERENCE DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OVERALL	OCTAVE BAND 1	OCTAVE BAND 2	OCTAVE BAND 3	SOUND POWER LEVEL	OCTAVE BAND 4	OCTAVE BAND 5	OCTAVE BAND 6	OCTAVE BAND 7
15.0	147.2	132.8	138.8	142.4	88.2	88.2	82.8	119.8	
20.0	147.8	132.2	141.8	139.5	124.9	88.8	83.8	120.6	
25.0	147.8	132.8	141.8	138.2	124.2	89.8	84.2	120.2	
30.0	148.2	131.8	141.4	137.8	122.2	90.8	86.8	120.8	
35.0	148.8	128.8	141.8	136.8	122.8	91.8	87.1	121.8	
40.0	149.8	127.8	141.5	134.5	120.5	92.5	88.8	122.8	
45.0	150.2	127.2	141.8	132.8	118.8	93.8	89.8	124.2	
50.0	150.8	128.1	142.1	131.8	117.8	94.8	91.2	125.8	
55.0	151.2	128.8	142.8	130.8	116.8	95.8	92.2	126.8	
60.0	151.8	129.8	143.2	130.2	116.2	96.8	93.2	127.8	
65.0	152.2	130.2	143.8	129.8	115.8	97.8	94.2	128.8	
70.0	152.8	130.8	144.2	129.8	115.8	98.8	95.2	129.8	
75.0	153.2	131.2	144.8	129.8	115.8	99.8	96.2	130.8	
80.0	153.8	131.8	145.2	129.8	115.8	100.8	97.2	131.8	
85.0	154.2	132.2	145.8	129.8	115.8	101.8	98.2	132.8	
90.0	154.8	132.8	146.2	129.8	115.8	102.8	99.2	133.8	
95.0	155.2	133.2	146.8	129.8	115.8	103.8	100.2	134.8	
100.0	155.8	133.8	147.2	129.8	115.8	104.8	101.2	135.8	
105.0	156.2	134.2	147.8	129.8	115.8	105.8	102.2	136.8	
110.0	156.8	134.8	148.2	129.8	115.8	106.8	103.2	137.8	
115.0	157.2	135.2	148.8	129.8	115.8	107.8	104.2	138.8	
120.0	157.8	135.8	149.2	129.8	115.8	108.8	105.2	139.8	
125.0	158.2	136.2	149.8	129.8	115.8	109.8	106.2	140.8	
130.0	158.8	136.8	150.2	129.8	115.8	110.8	107.2	141.8	
135.0	159.2	137.2	150.8	129.8	115.8	111.8	108.2	142.8	
140.0	159.8	137.8	151.2	129.8	115.8	112.8	109.2	143.8	
145.0	160.2	138.2	151.8	129.8	115.8	113.8	110.2	144.8	
150.0	160.8	138.8	152.2	129.8	115.8	114.8	111.2	145.8	
155.0	161.2	139.2	152.8	129.8	115.8	115.8	112.2	146.8	
160.0	161.8	139.8	153.2	129.8	115.8	116.8	113.2	147.8	
165.0	162.2	140.2	153.8	129.8	115.8	117.8	114.2	148.8	
170.0	162.8	140.8	154.2	129.8	115.8	118.8	115.2	149.8	
175.0	163.2	141.2	154.8	129.8	115.8	119.8	116.2	150.8	
180.0	163.8	141.8	155.2	129.8	115.8	120.8	117.2	151.8	

NOISE THRUST = 188.296 FULL SCALE THRUST = 188,888

				30.0	63.0	125.0	250.0	500.0	1000.0	2000.0	4000.0	8000.0	16000.0
15.0	91.62	91.50	95.0	95.07	96.07	95.19	91.07	92.84	94.50	90.50	5.10	+42.20	+27.40	+29.40
20.0	92.72	92.60	96.1	97.17	97.17	96.29	92.17	93.94	95.60	91.60	23.20	+45.30	+30.50	+31.50
25.0	93.72	93.60	97.1	98.27	98.27	97.39	93.27	94.94	96.70	92.70	38.30	6.20	+31.60	+32.60
30.0	94.72	94.60	98.2	99.37	99.37	98.49	94.37	96.04	97.80	93.80	41.30	20.30	+32.60	+33.60
35.0	95.72	95.60	99.2	100.37	100.37	99.49	95.37	97.04	98.80	94.80	42.30	32.30	+33.60	+34.60
40.0	96.72	96.60	100.2	101.37	101.37	100.49	96.37	98.04	99.80	95.80	43.30	39.30	+34.60	+35.60
45.0	97.72	97.60	101.2	102.37	102.37	101.49	97.37	99.04	100.80	96.80	44.30	43.30	+35.60	+36.60
50.0	98.72	98.60	102.2	103.37	103.37	102.49	98.37	100.04	101.80	97.80	45.30	46.30	+36.60	+37.60
55.0	99.72	99.60	103.2	104.37	104.37	103.49	99.37	101.04	102.80	98.80	46.30	48.30	+37.60	+38.60
60.0	100.72	100.60	104.2	105.37	105.37	104.49	100.37	102.04	103.80	99.80	47.30	49.30	+38.60	+39.60
65.0	101.72	101.60	105.2	106.37	106.37	105.49	101.37	103.04	104.80	100.80	48.30	50.30	+39.60	+40.60
70.0	102.72	102.60	106.2	107.37	107.37	106.49	102.37	104.04	105.80	101.80	49.30	51.30	+40.60	+41.60
75.0	103.72	103.60	107.2	108.37	108.37	107.49	103.37	105.04	106.80	102.80	50.30	52.30	+41.60	+42.60
80.0	104.72	104.60	108.2	109.37	109.37	108.49	104.37	106.04	107.80	103.80	51.30	53.30	+42.60	+43.60
85.0	105.72	105.60	109.2	110.37	110.37	109.49	105.37	107.04	108.80	104.80	52.30	54.30	+43.60	+44.60
90.0	106.72	106.60	110.2	111.37	111.37	110.49	106.37	108.04	109.80	105.80	53.30	55.30	+44.60	+45.60
95.0	107.72	107.60	111.2	112.37	112.37	111.49	107.37	109.04	110.80	106.80	54.30	56.30	+45.60	+46.60
100.0	108.72	108.60	112.2	113.37	113.37	112.49	108.37	110.04	111.80	107.80	55.30	57.30	+46.60	+47.60
105.0	109.72	109.60	113.2	114.37	114.37	113.49	109.37	111.04	112.80	108.80	56.30	58.30	+47.60	+48.60
110.0	110.72	110.60	114.2	115.37	115.37	114.49	110.37	112.04	113.80	109.80	57.30	59.30	+48.60	+49.60
115.0	111.72	111.60	115.2	116.37	116.37	115.49	111.37	113.04	114.80	110.80	58.30	60.30	+49.60	+50.60
120.0	112.72	112.60	116.2	117.37	117.37	116.49	112.37	114.04	115.80	111.80	59.30	61.30	+50.60	+51.60
125.0	113.72	113.60	117.2	118.37	118.37	117.49	113.37	115.04	116.80	112.80	60.30	62.30	+51.60	+52.60
130.0	114.72	114.60	118.2	119.37	119.37	118.49	114.37	116.04	117.80	113.80	61.30	63.30	+52.60	+53.60
135.0	115.72	115.60	119.2	120.37	120.37	119.49	115.37	117.04	118.80	114.80	62.30	64.30	+53.60	+54.60
140.0	116.72	116.60	120.2	121.37	121.37	120.49	116.37	118.04	119.80	115.80	63.30	65.30	+54.60	+55.60
145.0	117.72	117.60	121.2	122.37	122.37	121.49	117.37	119.04	120.80	116.80	64.30	66.30	+55.60	+56.60
150.0	118.72	118.60	122.2	123.37	123.37	122.49	118.37	120.04	121.80	117.80	65.30	67.30	+56.60	+57.60
155.0	119.72	119.60	123.2	124.37	124.37	123.49	119.37	121.04	122.80	118.80	66.30	68.30	+57.60	+58.60
160.0	120.72	120.60	124.2	125.37	125.37	124.49	120.37	122.04	123.80	119.80	67.30	69.30	+58.60	+59.60
165.0	121.72	121.60	125.2	126.37	126.37	125.49	121.37	123.04	124.80	120.80	68.30	70.30	+59.60	+60.60
170.0	122.72	122.60	126.2	127.37	127.37	126.49	122.37	124.04	125.80	121.80	69.30	71.30	+60.60	+61.60
175.0	123.72	123.60	127.2	128.37	128.37	127.49	123.37	125.04	126.80	122.80	70.30	72.30	+61.60	+62.60
180.0	124.72	124.60	128.2	129.37	129.37	128.49	124.37	126.04	127.80	123.80	71.30	73.30	+62.60	+63.60

RUN NUMBER	•	144,000
AXIAL POSITION OF PRIMARY NOZ, SECONDARY (INS,)	•	NONE
PRIMARY TEMPERATURE (R)	•	850.000
SECONDARY TEMPERATURE (R)	•	NONE
PRIMARY PRESSURE RATIO	•	1.000
AREA RATIO	•	NONE
VELOCITY RATIO	•	NONE
PRIMARY VELOCITY (FT/SEC)	•	1176.402
MASS FLOW RATIO	•	NONE
PRIMARY MASS FLOW (LB/SEC)	•	.172
THRUST (LBS)	•	6.672
ENVIRONMENTAL TEMPERATURE (R)	•	535.000
ENVIRONMENTAL PRESSURE (IN.HG)	•	29.980
ENVIRONMENTAL HUMIDITY (PER CENT)	•	30.000
CALIBRATION FACTOR (DB TO DB/SQ. CM)	•	.022
INSTRUMENTATION NOISE FLOOR (DB)	•	97.300

ISTIC POWER AND SOUND POWER LEVEL FOR POINT 1.1

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
			THRUST	POWER LEVEL(DB)
OVERALL	1.3[illegible]E-01	129.1	10000	102.2
707	2.[illegible]E-07	103.4	20000	105.3
1001	1.[illegible]E-06	112.6	40000	108.2
2000	1.[illegible]E-01	121.7	80000	109.2
4000	2.[illegible]E-01	124.3		
8000	2.[illegible]E-01	122.0		
16000	1.[illegible]E-01	119.8		
31500	1.[illegible]E-01	119.7		

Differential Data
Noise Spectra Octave Band and Overall Sound Pressure Level Variation with Angle

ANGLE (DEG)	31.5	OCTAVE BAND 63	125	SOUND 250	PRESSURE 500	LEVEL,S 1000	2000	OVER 4000
10.0	84.2	93.1	98.2	101.6	97.5	97.9	91.9	104.6
20.0	86.6	92.3	96.8	102.0	98.5	94.2	94.1	105.6
30.0	84.2	92.2	96.8	101.3	96.1	91.8	91.8	103.6
40.0	84.2	94.3	96.2	101.2	98.2	91.9	96.2	104.5
50.0	84.2	94.2	95.2	101.2	97.9	94.6	98.4	104.1
60.0	87.8	95.6	95.9	99.2	98.2	93.3	98.3	103.3
70.0	78.4	94.8	94.4	99.8	98.3	93.2	93.2	103.4
80.0	82.6	95.4	94.9	98.9	98.1	94.2	94.2	101.6
90.0	82.8	92.1	94.8	98.2	97.2	97.1	97.1	99.7
100.0	75.8	90.6	93.8	97.8	97.8	97.9	97.9	98.2
110.0	83.3	92.1	93.6	97.6	96.6	96.1	96.1	96.6
120.0	81.9	95.6	93.6	91.7	94.0	94.7	94.7	95.8
130.0	82.4	93.6	93.1	97.9	91.1	93.8	93.8	94.6
140.0	87.8	97.1	97.0	95.6	96.6	87.8	85.8	93.1
150.0	83.3	94.8	94.8	93.8	89.8	91.4	91.4	92.9
160.0	81.8	96.3	91.8	94.2	89.8	89.8	89.8	90.6
170.0	84.4	92.4	91.4	91.4	91.4	91.4	92.1	91.2
180.0	84.8	94.8	93.8	92.0	91.7	89.8	89.8	91.7
190.0	84.8	94.8	93.8	92.0	91.7	89.8	89.8	91.7
200.0	82.4	92.4	91.4	91.4	91.4	91.4	92.1	91.2
210.0	87.8	97.1	97.0	95.6	96.6	87.8	85.8	93.1
220.0	83.3	94.8	94.8	93.8	89.8	91.4	91.4	92.9
230.0	81.8	96.3	91.8	94.2	89.8	89.8	89.8	90.6
240.0	84.4	92.4	91.4	91.4	91.4	91.4	92.1	91.2
250.0	84.8	94.8	93.8	92.0	91.7	89.8	89.8	91.7
260.0	84.8	94.8	93.8	92.0	91.7	89.8	89.8	91.7
270.0	82.4	92.4	91.4	91.4	91.4	91.4	92.1	91.2
280.0	87.8	97.1	97.0	95.6	96.6	87.8	85.8	93.1
290.0	83.3	94.8	94.8	93.8	89.8	91.4	91.4	92.9
300.0	81.8	96.3	91.8	94.2	89.8	89.8	89.8	90.6
310.0	84.4	92.4	91.4	91.4	91.4	91.4	92.1	91.2
320.0	84.8	94.8	93.8	92.0	91.7	89.8	89.8	91.7
330.0	84.8	94.8	93.8	92.0	91.7	89.8	89.8	91.7
340.0	82.4	92.4	91.4	91.4	91.4	91.4	92.1	91.2
350.0	87.8	97.1	97.0	95.6	96.6	87.8	85.8	93.1
360.0	83.3	94.8	94.8	93.8	89.8	91.4	91.4	92.9

[illegible] POWER = 6.992 [illegible] = 111[illegible]

ANGLE	OCTAVE BAND											
	8.0	31.5	63	125	250	500	1000	2000	4000	8000	16000	31500
10.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
190.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
200.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
210.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
220.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
230.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
240.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
250.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
260.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
270.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
280.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
290.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
300.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
310.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
320.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
330.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
340.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
350.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
360.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NUMBER	=	149.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (R)	=	910.000
SECONDARY TEMPERATURE (R)	=	550.000
PRIMARY PRESSURE RATIO	=	1.030
AREA RATIO	=	1.000
VELOCITY RATIO	=	.385
PRIMARY VELOCITY (FT/SEC)	=	1170.404
MASS FLOW RATIO	=	·.27?
PRIMARY MASS FLOW (LB/SEC)	=	.100
THRUST (LBS)	=	3.499
ENVIRONMENTAL TEMPERATURE (R)	=	541.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.000
ENVIRONMENTAL HUMIDITY (PER CENT)	=	27.000
CALIBRATION FACTOR AMP TO DYN/SQ.CM)	=	.025
INSTRUMENTATION NOISE FLOOR (DB)	=	57.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	8.106695E-01	129.1	THRUST	POWER LEVEL(DB)
			10000	160.1
500	4.183372E-03	106.2	20000	163.1
1000	2.916572E-02	114.6	40000	166.1
2000	1.894084E-01	122.7	80000	169.1
4000	2.924578E-01	124.6		
8000	2.055446E-01	123.1		
16000	8.959806E-02	119.3		
31500	3.437636E-02	115.3		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	1000	2000	4000	8000	16000	31500	OVER ALL
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NOISE RADIUS = [illegible] FULL SCALE RADIUS = [illegible]

ANGLE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NUMBER	= 146,000
AXIAL POSITION OF PRIMARY NAT, SECONDARY (INS,)	= 0,000
PRIMARY TEMPERATURE (R)	= 910,000
SECONDARY TEMPERATURE (R)	= 533,000
PRIMARY PRESSURE RATIO	= 1,000
AREA RATIO	= 1,000
VELOCITY RATIO	= ,728
PRIMARY VELOCITY (FT/SEC)	= 1176,402
MASS FLOW RATIO	= 1,428
PRIMARY MASS FLOW (LB/SEC)	= ,172
THRUST (LBS)	= 12,789
ENVIRONMENTAL TEMPERATURE (R)	= 536,000
ENVIRONMENTAL PRESSURE (IN,HG)	= 29,480
ENVIRONMENTAL HUMIDITY (PER CENT)	= 31,000
CALIBRATION FACTOR (MV TO PY/SQ CM)	= ,028
INSTRUMENTATION NOISE FLOOR (DB)	= 58,584

IIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1,437616+00	131,6
500	6,660126-03	108,2
1000	5,186856-02	117,1
2000	2,558136-01	124,1
4000	8,865356-01	129,9
8000	3,536896-01	125,5
16000	2,677176-01	124,2
31500	1,755006-01	122,4

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	100,5
20000	103,5
40000	106,5
80000	109,5

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15,0	87,5	95,5	100,5	99,3	95,6	90,2	81,5	104,8
20,0	87,0	96,1	101,7	100,9	97,4	92,5	93,2	106,1
25,0	85,7	95,6	101,9	101,9	98,8	93,5	94,1	106,8
30,0	84,7	94,4	101,4	102,5	99,6	94,0	95,4	107,0
35,0	83,6	92,7	100,9	102,3	100,2	94,0	95,8	107,0
40,0	81,9	91,4	99,2	101,9	100,6	93,8	96,5	106,6
45,0	80,3	89,4	97,3	100,2	100,3	93,1	96,8	105,8
50,0	78,6	87,5	95,0	98,5	99,0	92,0	96,8	104,6
55,0	76,8	85,4	93,4	96,2	98,1	90,5	96,7	103,7
60,0	75,7	83,7	91,4	95,0	96,8	89,4	95,7	102,3
65,0	74,6	82,3	89,9	93,7	95,6	88,9	94,2	101,1
70,0	73,6	81,5	88,9	92,8	94,9	88,1	92,3	100,1
75,0	73,9	80,7	87,8	91,8	93,9	88,3	90,6	99,0
80,0	73,1	80,0	86,8	90,8	92,7	88,2	89,8	98,0
85,0	72,8	79,9	86,0	90,1	92,1	88,0	89,2	97,4
90,0	72,3	79,4	85,5	88,9	91,3	88,0	88,0	96,4
95,0	71,9	78,3	85,2	88,6	90,9	88,0	87,4	96,0
100,0	71,9	78,2	84,8	88,2	90,6	87,8	86,7	95,6
105,0	74,6	77,3	83,8	87,5	89,9	88,9	85,9	94,8
110,0	69,9	76,4	83,3	87,2	89,8	88,7	85,8	94,6
115,0	69,2	75,3	82,3	86,4	89,0	88,5	85,6	94,0

MODEL THRUST = 12,789 FULL SCALE THRUST = 20000,000

	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 12,6	25,3	50,6	101,2	202,3	404,6	796,6	1593,1	3161,0	6321,9	12643,8
1,6	80,5(79,3)	81,6	64,70	72,70	77,72	76,27	72,07	65,34	63,07	51,57	30,62	-7,69	-73,02
1,7	85,7(84,1)	85,4	69,64	75,29	81,26	80,48	76,59	70,53	68,56	59,13	42,59	12,83	-37,34
1,3	85,2(87,2)	88,0	67,24	77,06	83,39	83,34	79,83	73,68	72,12	63,92	49,92	25,30	-15,88
1,0	91,9(89,9)	89,7	67,62	77,36	84,35	85,31	82,19	76,67	75,44	66,04	55,74	34,47	-9,88
1,2	93,9(91,2)	90,8	67,74	78,57	85,61	86,36	84,07	79,21	77,42	70,58	59,48	40,55	0,42
1,6	95,3(92,5)	91,4	67,04	79,50	86,29	86,92	85,42	81,04	79,39	72,96	62,73	45,56	17,92
1,3	96,3(92,4)	91,4	66,24	79,31	86,22	86,97	86,04	82,55	80,64	74,53	64,95	49,03	23,27
1,1	96,4(92,6)	90,9	65,23	78,14	85,62	85,84	85,44	82,95	81,49	75,62	66,59	51,63	27,57
1,2	96,3(92,9)	90,6	64,04	77,69	85,64	85,81	85,35	83,09	82,17	76,47	67,81	53,66	30,96
2,1	95,7(91,7)	89,7	63,41	77,40	85,14	85,25	84,82	82,49	81,77	76,22	67,86	54,31	32,66
5,1	95,1(91,2)	89,0	62,73	76,42	84,65	84,75	84,21	82,40	81,69	75,94	67,14	54,00	33,29
6,3	94,3(90,5)	88,3	62,27	75,89	83,98	84,14	83,56	81,95	81,18	75,65	66,94	53,85	33,61
2,9	93,1(89,4)	87,4	62,54	75,33	83,45	83,41	82,84	81,38	80,78	75,49	66,67	53,64	33,51
3,1	92,2(88,9)	87,0	61,39	74,82	82,84	82,84	82,34	81,04	80,44	75,13	66,45	53,48	33,52
5,7	92,2(88,4)	86,1	61,24	74,84	82,95	82,98	82,68	81,02	80,20	74,70	66,03	53,05	33,46
0,0	91,2(87,4)	85,1	61,23	74,49	82,33	82,64	82,07	80,81	79,92	74,32	65,67	52,69	33,49
5,7	90,1(86,5)	84,7	60,87	74,20	82,19	82,19	81,70	80,42	79,68	74,08	65,48	52,61	33,44
3,1	89,1(86,1)	84,2	61,27	74,20	82,42	82,28	81,79	80,39	79,54	73,83	65,23	52,44	33,42
2,9	88,9(85,4)	83,2	59,29	73,98	82,44	82,20	81,49	80,07	79,17	73,54	64,94	52,19	33,30
6,3	88,4(84,8)	82,7	58,29	73,61	82,13	82,01	81,41	79,92	79,02	73,39	64,81	52,08	33,27
5,1	87,7(84,1)	81,9	57,94	73,43	81,95	81,83	81,25	79,76	78,87	73,24	64,66	51,96	33,23

RUN NUMBER	=	147,000
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS,)	=	.0,000
PRIMARY TEMPERATURE (R)	=	910,530
SECONDARY TEMPERATURE (R)	=	530,300
PRIMARY PRESSURE RATIO	=	1,450
AREA RATIO	=	1,000
VELOCITY RATIO	=	,877
PRIMARY VELOCITY (FT/SEC)	=	1176,402
MASS FLOW RATIO	=	1,447
PRIMARY MASS FLOW (LB/SEC)	=	,170
THRUST (LBS)	=	16,466
ENVIRONMENTAL TEMPERATURE (R)	=	536,000
ENVIRONMENTAL PRESSURE (IN,HG)	=	29,408
ENVIRONMENTAL HUMIDITY (PER CENT)	=	31,000
CALIBRATION FACTOR (DV TO DY/SQ CM)	=	,036
INSTRUMENTATION NOISE FLOOR (DB)	=	80,584

TIC POWER AND SOUND POWER LEVEL FOR MODEL JET

REGIONCT	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	2,306468E+00	133,7	THRUST	POWER LEVEL(DB)
			10000	101,6
500	1,025396E-02	110,1	20000	104,6
1000	8,015826E-02	119,0	40000	107,6
2000	4,014726-01	126,0	80000	170,6
4000	6,767226-01	128,3		
8000	6,086716-01	127,8		
16000	3,687256-01	125,7		
31500	2,208496-01	123,4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15,0	89,5	97,6	102,1	101,0	96,3	91,1	91,6	106,8
20,0	89,1	97,4	103,5	103,2	98,2	93,6	92,3	107,8
25,0	87,7	97,4	103,7	104,4	100,2	95,2	94,7	108,7
30,0	86,4	96,4	103,5	104,5	101,0	96,5	95,8	108,8
35,0	82,1	94,8	102,6	104,4	101,8	97,7	96,7	108,7
40,0	83,3	92,9	101,2	103,8	102,1	98,4	96,7	108,3
45,0	82,1	91,2	99,3	102,7	102,5	99,2	97,6	107,8
50,0	80,1	89,0	97,4	100,6	101,4	99,0	98,0	106,7
55,0	77,9	86,9	95,4	98,7	99,9	98,0	98,8	105,6
60,0	77,0	85,7	94,1	98,7	101,3	99,7	95,6	105,6
65,0	76,8	84,1	92,3	97,3	100,1	99,0	92,0	104,6
70,0	75,6	83,3	91,3	96,3	98,8	98,2	94,6	103,6
75,0	74,4	83,3	89,7	94,3	96,1	95,4	93,0	101,3
80,0	73,9	82,4	89,4	93,4	95,2	94,4	92,8	100,4
85,0	74,8	82,3	88,5	92,5	94,3	93,5	91,2	99,5
90,0	74,8	81,9	88,0	91,9	94,0	93,3	90,7	99,1
95,0	74,5	80,9	87,5	91,4	93,4	92,7	90,1	98,6
100,0	73,6	80,5	87,3	91,0	93,0	92,3	89,4	98,1
105,0	73,0	80,0	86,7	90,9	92,6	91,8	88,9	97,7
110,0	72,2	78,9	86,0	90,3	92,3	91,2	88,1	97,2
115,0	73,2	78,8	84,7	89,4	91,4	91,4	88,6	96,7

MODEL THRUST = 16,466 FULL SCALE THRUST = 20000,000

L	PHI	CAL	14,4	OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
				28,7	57,4	114,8	229,7	459,4	904,4	1808,7	3588,8	7177,6 14355,1
5,6	81,4(80,4)	92,3	65,59	73,71	78,17	77,71	71,56	64,59	61,01	48,15	24,72	-17,79 -89,17
5,2	86,0(84,9)	86,1	67,72	76,35	81,88	81,58	76,06	69,16	65,42	55,02	36,55	-3,68 -91,78
9,3	86,9(85,1)	88,7	66,07	77,82	84,01	84,61	80,03	73,97	70,95	61,92	46,40	19,23 -25,67
0,0	92,3(90,3)	90,4	68,33	78,26	85,30	86,24	82,36	77,02	73,98	65,86	52,28	28,85 -9,52
5,2	94,4(92,5)	91,5	68,14	77,35	85,64	87,32	84,44	79,57	76,65	69,21	56,99	38,17 2,38
3,6	95,8(94,1)	92,0	67,32	76,92	85,16	87,74	85,72	81,46	78,05	71,04	59,85	40,96 10,41
1,3	96,8(94,1)	92,3	67,03	76,93	84,13	87,58	87,02	83,07	79,95	73,35	62,87	45,42 17,38
8,1	96,9(94,8)	91,9	69,63	74,58	82,91	86,28	86,79	83,67	81,24	74,91	65,01	48,67 22,56
1,2	96,2(93,6)	90,7	66,02	73,01	80,94	84,71	85,74	83,35	80,82	74,71	65,25	49,78 25,16
2,1	92,3(89,2)	91,0	63,67	72,30	80,68	85,28	87,50	85,54	80,21	74,27	65,16	50,37 26,92
5,1	94,9(91,6)	91,2	63,85	71,11	79,31	84,20	86,88	85,24	82,13	74,31	65,67	51,20 28,66
6,3	95,9(91,7)	91,4	63,97	70,84	79,63	84,01	86,92	85,24	80,89	74,32	65,74	51,87 30,02
2,9	94,8(91,7)	88,5	63,94	70,92	77,29	81,24	83,47	82,23	78,79	73,15	64,67	51,09 29,78
3,1	92,5(90,3)	87,9	63,61	70,15	77,02	81,24	82,79	81,43	77,94	72,56	63,78	50,61 29,63
5,7	93,1(89,5)	87,9	62,64	70,12	76,34	80,26	81,93	80,78	77,32	71,76	63,45	50,19 29,42
0,0	91,7(87,2)	86,7	62,71	69,77	75,87	79,72	81,66	80,46	76,84	71,29	63,30	49,79 29,04
5,7	92,1(88,5)	88,1	62,39	68,74	75,31	79,21	81,02	79,84	76,14	70,62	62,31	49,09 28,29
3,1	91,5(85,2)	85,5	61,39	68,21	73,45	78,64	80,49	79,36	75,38	69,78	61,42	48,05 27,47
2,9	90,7(87,3)	84,9	60,54	67,58	74,21	78,33	79,92	78,64	74,61	69,00	60,52	46,94 25,61
0,3	89,9(86,4)	84,2	59,54	66,29	73,24	77,56	79,39	77,79	73,56	67,85	59,22	45,39 23,51
5,1	89,4(85,3)	83,5	59,24	64,99	71,67	76,29	78,12	77,69	73,64	67,86	59,03	44,75 22,22

RUN NUMBER	= 148,000
AXIAL POSITION OF PRIMARY NOZ, SECONDARY (INS.)	= 0,000
PRIMARY TEMPERATURE (R)	= 910,000
SECONDARY TEMPERATURE (R)	= 530,000
PRIMARY PRESSURE RATIO	= 1,000
AREA RATIO	= 2,007
VELOCITY RATIO	= ,376
PRIMARY VELOCITY (FT/SEC)	= 1176,402
MASS FLOW RATIO	= 1,378
PRIMARY MASS FLOW (LB/SEC)	= ,170
THRUST (LBS)	= 9,445
ENVIRONMENTAL TEMPERATURE (R)	= 538,000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29,400
ENVIRONMENTAL HUMIDITY (PER CENT)	= 33,000
CALIBRATION FACTOR (DB TO WATTS)	= ,025
INSTRUMENTATION NOISE FLOOR (DB)	= 57,590

STIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	8,930604E-01	149,5	THRUST	POWER LEVEL(DB)
			10000	154,7
500	3,709216-03	105,8	20000	102,8
1000	1,276956-02	111,2	40000	105,8
2000	1,728876-01	122,4	80000	108,8
4000	2,977856-01	124,7		
8000	2,200396-01	123,5		
16000	1,112826-01	120,5		
31500	4,003776-02	116,6		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15,0	92,1	94,1	99,8	97,8	95,9	88,4	82,9	104,3
20,0	89,4	94,2	100,0	101,5	97,7	90,0	85,4	105,5
25,0	89,9	93,9	100,7	102,4	98,4	92,4	87,4	106,1
30,0	82,4	92,3	100,2	102,2	98,9	93,3	88,6	106,0
35,0	81,3	91,2	99,2	101,9	99,5	94,6	90,0	105,8
40,0	79,5	89,6	97,6	100,3	98,9	93,0	90,5	104,7
45,0	78,1	87,1	95,2	98,5	98,2	93,2	91,0	103,5
50,0	75,5	85,0	92,8	96,2	97,1	94,9	91,1	102,0
55,0	73,4	82,2	89,9	93,9	95,2	94,3	90,8	100,0
60,0	72,6	80,4	87,9	92,1	94,3	93,0	89,4	98,0
65,0	71,0	78,9	86,2	90,7	93,0	91,7	88,4	97,7
70,0	70,6	78,1	85,2	89,5	91,6	90,7	87,4	96,6
75,0	70,3	77,1	84,3	88,5	91,0	89,6	86,4	95,7
80,0	70,0	77,0	83,4	87,2	89,3	88,1	85,1	94,2
85,0	70,0	76,7	82,9	86,5	88,4	89,9	84,0	93,3
90,0	70,0	75,8	82,0	85,6	87,3	85,8	82,8	92,2
95,0	69,2	75,6	81,4	84,8	86,4	84,9	81,9	91,4
100,0	68,0	74,8	80,8	84,0	85,3	84,3	81,8	90,8
105,0	68,2	74,0	79,8	83,4	84,9	83,4	80,7	90,0
110,0	67,1	73,4	79,5	82,7	84,2	82,7	80,3	89,3
115,0	66,6	72,5	78,5	82,3	83,6	81,2	79,2	88,5

MODEL THRUST = 9,445 FULL SCALE THRUST = 20000,000

L,	F/OB,		WASP,		OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
				10,9	21,7	43,5	86,9	173,8	347,7	694,5	1389,1	2778,4	5432,8 10865,5
195,6	79,9(	79,0)	82,6	83,67	72,83	73,94	70,14	73,87	69,27	56,64	46,74	28,42	-5,34 -43,64
185,7	84,9(	83,7)	86,1	89,33	79,14	81,83	82,33	76,24	70,27	62,89	54,51	39,92	13,64 -31,34
149,3	85,3(	84,5)	89,1	86,69	78,66	83,62	85,54	80,60	74,13	67,41	60,04	47,68	25,64 -11,17
100,0	90,4(	88,5)	93,1	88,71	78,61	84,48	86,44	82,91	76,24	70,42	63,83	52,87	33,95 2,29
115,2	92,4(	90,3)	91,1	88,75	78,72	84,64	87,31	84,71	79,28	73,36	67,16	57,24	40,36 12,31
133,6	93,1(	92,2)	91,2	89,97	79,89	84,25	89,74	89,13	80,64	75,08	69,22	60,06	44,67 19,31
121,3	93,7(	93,3)	93,6	95,42	74,39	82,44	89,77	89,29	81,91	76,61	71,09	62,41	46,15 24,63
138,1	93,8(	93,7)	89,8	80,61	72,97	80,75	84,13	84,85	82,33	77,54	72,14	63,97	50,58 28,81
131,2	93,6(	93,3)	88,9	81,94	70,81	78,44	82,43	84,28	82,34	77,86	72,62	64,78	52,08 31,51
132,1	92,7(	89,3)	92,9	83,69	69,43	76,55	81,18	83,21	81,54	77,10	71,98	64,40	52,21 32,61
135,1	91,9(	88,3)	86,9	80,40	68,34	75,67	80,04	82,30	80,78	76,58	71,48	64,18	52,32 33,48
126,3	91,3(	82,6)	84,2	80,38	67,83	74,89	79,14	81,43	80,01	75,93	70,98	63,73	52,20 33,96
152,9	90,8(	86,7)	85,2	81,31	67,31	74,24	78,44	80,84	79,34	75,18	70,24	63,18	51,93 34,08
123,1	89,3(	85,3)	84,2	80,13	67,15	73,89	77,32	79,32	77,77	74,35	69,18	62,16	51,07 33,48
105,7	87,3(	84,4)	83,4	80,23	66,92	73,13	76,69	78,45	76,77	73,08	68,23	61,25	50,20 32,83
110,0	87,2(	83,4)	82,4	80,27	66,35	72,25	75,81	77,45	75,61	71,87	67,03	60,07	49,11 31,74
119,7	86,3(	82,6)	81,6	79,51	65,84	71,65	75,03	76,54	74,74	70,99	66,14	59,17	48,18 30,75
123,1	85,7(	81,8)	81,0	79,22	65,42	71,23	74,41	75,82	74,01	70,23	65,36	58,64	47,73 30,16
152,9	84,8(	81,7)	79,9	78,37	64,94	70,78	73,97	74,74	73,42	69,42	64,97	57,61	46,17 28,63
110,3	83,4(	79,6)	79,1	78,15	63,15	69,29	72,69	73,73	72,13	68,86	64,54	56,63	45,19 28,14
105,1	82,1(	79,4)	78,1	78,13	62,73	67,67	71,87	72,84	71,43	67,38	63,28	54,98	43,12 26,64

RUN NUMBER	=	149,000
AXIAL POSITION OF PRIMARY NOZ, SECONDARY (INS,)	=	0.000
PRIMARY TEMPERATURE (R)	=	910.000
SECONDARY TEMPERATURE (R)	=	525.000
PRIMARY PRESSURE RATIO	=	1.000
AREA RATIO	=	2.007
VELOCITY RATIO	=	.722
PRIMARY VELOCITY (FT/SEC)	=	1176.402
MASS FLOW RATIO	=	.052
PRIMARY MASS FLOW (LB/SEC)	=	.148
THRUST (LBS)	=	19.707
ENVIRONMENTAL TEMPERATURE (R)	=	533.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	=	35.000
CALIBRATION FACTOR (V TO DYN/SQ CM)	=	.032
INSTRUMENTATION NOISE FLOOR (DB)	=	59.573

STIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	1.864878E+00	132.8	THRUST	POWER LEVEL(DB)
			10000	129.8
500	1.643382E-02	112.2	20000	132.8
1000	1.077209E-01	120.3	40000	135.8
2000	3.978050E-01	126.0	80000	138.8
4000	5.220561E-01	127.4		
8000	4.869858E-01	126.9		
16000	2.350478E-01	123.7		
31500	8.986778E-02	119.5		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	91.4	98.8	101.9	99.2	95.2	89.7	85.3	105.7
20.0	91.5	99.4	103.1	100.9	97.3	92.0	87.3	107.0
25.0	89.9	98.8	103.5	102.3	99.3	94.3	89.4	107.8
30.0	88.1	97.5	103.5	103.4	100.6	95.7	90.5	108.3
35.0	88.5	96.7	102.5	103.7	101.4	96.6	91.8	108.2
40.0	84.6	94.0	101.3	103.6	102.1	97.8	92.6	108.0
45.0	86.6	91.8	99.3	102.1	102.0	98.2	93.3	107.7
50.0	80.9	89.8	97.1	100.5	101.1	98.2	93.6	106.8
55.0	79.2	88.1	94.9	98.7	100.0	97.4	93.3	104.6
60.0	79.1	86.3	93.2	97.1	98.5	96.2	92.1	103.1
65.0	79.4	86.6	92.2	96.9	97.3	95.1	91.0	102.8
70.0	79.7	86.2	91.6	96.9	96.1	94.0	90.2	101.0
75.0	79.4	86.5	89.9	95.6	94.9	93.1	89.8	99.9
80.0	79.1	86.3	89.8	92.7	94.1	92.4	89.0	99.2
85.0	78.5	86.2	89.3	92.2	93.3	91.6	88.0	98.5
90.0	78.3	85.8	88.8	91.1	92.4	90.5	86.9	97.5
95.0	77.2	83.1	88.5	91.0	92.2	90.2	87.0	97.3
100.0	77.2	82.9	88.4	90.1	91.4	89.4	86.4	96.7
105.0	77.8	81.9	87.8	89.8	90.9	89.0	86.1	96.2
110.0	77.4	81.0	87.3	89.9	90.7	88.6	85.8	96.0
115.0	76.1	80.1	86.2	89.0	89.7	88.2	84.8	95.1

MODEL THRUST = 19.707 FULL SCALE THRUST = 20000.000

L+	PWDB	DASPL	OCTAVE 15.7	BAND 31.4	62.8	SOUND 125.6	PRESSURE 251.1	LEVELS 502.2	988.8	1977.6	3923.8	7847.6	15695.1
095.6	78.3(77.7)	80.8	66.73	74.10	77.18	74.28	69.55	62.07	52.99	39.09	13.74	-31.87	-107.76
095.7	81.0(82.7)	84.5	69.23	77.14	80.78	78.41	74.34	67.55	59.28	48.03	28.12	-7.14	-69.28
099.3	87.6(86.4)	87.1	69.55	78.40	83.05	81.69	78.28	72.15	64.34	54.66	37.98	8.88	-38.76
100.0	90.4(89.1)	89.1	69.16	78.52	84.51	84.35	81.14	75.30	67.62	58.98	44.42	19.36	-21.32
115.2	92.4(90.8)	90.1	68.81	77.96	84.74	85.85	83.28	77.53	70.60	62.69	49.68	27.38	-8.52
131.6	94.2(92.3)	91.0	67.64	77.20	84.48	86.23	84.98	79.87	73.03	65.84	54.64	33.48	1.14
121.3	94.7(93.7)	93.9	68.67	75.92	83.34	86.29	85.72	81.23	74.55	67.56	58.38	37.78	8.10
098.1	94.9(92.5)	90.4	65.68	74.62	81.89	85.22	85.57	81.96	75.99	69.31	58.76	41.37	13.74
101.2	94.5(91.9)	89.6	65.07	73.49	80.23	83.94	85.07	81.83	76.21	69.74	59.78	43.24	17.21
132.1	93.7(91.8)	88.6	64.95	72.15	79.00	82.83	84.05	81.21	75.78	69.44	59.78	44.03	19.24
135.1	93.1(91.3)	87.9	65.66	72.88	78.44	82.58	83.27	80.44	75.04	68.92	59.54	44.37	20.56
106.1	92.5(92.6)	87.7	66.24	72.78	78.40	82.35	82.68	79.78	74.65	68.68	59.52	44.78	21.71
092.9	91.3(88.7)	87.1	66.21	71.29	78.22	80.38	81.46	79.15	74.54	68.65	59.61	45.21	22.64
123.1	91.2(89.1)	87.8	66.04	71.27	78.26	79.59	81.76	78.59	73.96	68.18	59.22	45.04	22.57
109.7	90.5(87.4)	85.2	65.55	71.29	78.35	79.14	80.14	77.85	73.13	67.36	58.49	44.42	22.49
109.8	89.5(86.5)	84.3	65.42	70.87	78.08	78.08	79.23	76.79	72.04	66.19	57.39	43.37	21.59
105.7	88.4(88.2)	84.1	64.39	70.15	77.59	77.94	79.03	76.44	72.04	66.23	57.42	43.35	21.49
123.1	88.6(85.5)	83.4	64.22	69.84	77.35	76.98	78.27	75.65	71.41	65.56	56.87	42.92	20.91
092.9	87.9(84.7)	82.7	62.69	68.67	76.49	76.47	77.43	75.01	70.84	64.94	55.95	41.94	19.91
096.3	87.2(84.1)	82.2	61.92	67.57	76.31	76.33	76.93	74.43	70.22	64.21	55.14	41.32	17.24
095.1	88.4(87.4)	81.3	60.34	66.35	75.34	75.18	75.64	73.61	68.87	62.75	53.39	38.19	14.34

RUN NUMBER	=	150.00 (811.00)
AXIAL POSITION OF PRIMARY NOZ, SECONDARY (INS,)	=	8,000
PRIMARY TEMPERATURE (R)	=	910,000
SECONDARY TEMPERATURE (R)	=	520,000
PRIMARY PRESSURE RATIO	=	1,600
AREA RATIO	=	2,007
VELOCITY RATIO	=	,868
PRIMARY VELOCITY (FT/SEC)	=	1176,402
MASS FLOW RATIO	=	4,089
PRIMARY MASS FLOW (LB/SEC)	=	,160
THRUST (LBS)	=	26,597
ENVIRONMENTAL TEMPERATURE (R)	=	533,000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29,400
ENVIRONMENTAL HUMIDITY (PER CENT)	=	35,000
CALIBRATION FACTOR (PV TO DY/SQ CM)	=	,050
INSTRUMENTATION NOISE FLOOR (DB)	=	63,559

STIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	4.026491E+00	136.0	THRUST	POWER LEVEL(DB)
			13000	101,3
500	2.64329E-02	114.2	21000	104,3
1000	2.07158E-01	123.2	41000	107,3
2000	9.08061E-01	129.6	83000	170,8
4000	1.19037E+00	130.6		
8000	9.08222E-01	129.6		
14000	5.31212E-01	127.3		
31500	2.94376E-01	124.7		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	200	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15,0	93,7	101,7	105,1	103,3	97,1	92,2	89,9	109,0
20,0	93,5	102,3	107,0	105,3	100,0	95,3	92,4	110,8
25,0	92,6	101,9	107,4	105,7	101,3	97,1	94,6	111,1
30,0	92,1	100,7	107,2	106,5	102,4	98,1	94,6	111,4
35,0	89,2	99,1	106,5	107,1	103,7	100,2	97,0	111,6
40,0	86,9	96,7	104,5	106,1	104,2	100,4	97,5	110,7
45,0	84,6	94,1	102,5	105,0	104,4	101,2	97,8	110,0
50,0	82,9	92,3	100,3	103,2	103,5	100,9	97,8	108,7
55,0	81,4	90,1	97,9	100,9	101,4	99,3	96,7	106,7
60,0	80,4	88,6	96,2	99,8	100,9.	99,3	97,4	106,1
65,0	80,6	88,0	95,0	99,1	100,5	99,1	96,9	105,6
70,0	80,4	87,9	94,6	98,3	99,8	98,4	95,9	104,9
75,0	79,8	87,4	93,6	97,4	98,7	97,3	95,2	103,9
80,0	80,4	87,2	9 .5	96,8	97,7	96,7	94,8	103,3
85,0	80,0	87,2	92,8	96,2	97,2	96,1	94,2	102,7
90,0	79,6	86,8	92,5	95,6	97,1	95,5	93,3	102,2
95,0	78,9	86,2	92,0	95,2	96,4	94,8	92,7	101,6
100,0	78,9	85,9	91,8	95,0	96,3	95,1	92,7	101,6
110,0	77,8	85,2	91,3	94,6	95,5	94,4	92,2	101,0
110,0	76,6	83,7	90,8	94,6	95,3	94,1	92,1	100,8
115,0	76,3	82,5	89,4	93,8	94,9	94,2	91,4	100,3

MODEL THRUST = 26,597 FULL SCALE THRUST = 20000,000

L,	PWDB,	OASPL		OCTAVE BAND SOUND PRESSURE LEVELS								
			18,2	36,9	72,9	145,9	291,7	583,5	1168,7	2297,4	4558,4	9116,7	18933,4
15,0	81,3(80,8)	82,7	67,79	75,76	79,05	76,97	69,86	62,58	54,59	38,79	9,85	-41,42	*125,18
15,2	86,7(85,9)	86,9	69,94	78,74	83,44	81,51	75,52	68,92	61,81	49,87	26,58	-13,03	*77,14
19,3	85,8(85,8)	89,1	70,10	79,84	85,63	83,78	78,87	73,15	67,14	58,27	37,44	4,87	*47,54
20,0	92,2(91,0)	90,8	70,86	80,43	86,95	86,09	81,53	75,94	69,57	59,91	43,52	15,53	*29,27
25,2	94,7(93,2)	92,2	70,16	80,02	87,43	87,87	84,12	79,54	73,75	64,94	50,27	25,48	-13,94
29,4	95,9(94,1)	92,2	68,83	78,63	86,40	87,91	84,65	80,92	75,74	67,56	54,14	31,71	-3,91
31,3	96,8(94,8)	92,3	67,42	76,92	85,29	87,67	84,70	82,69	77,15	69,44	56,97	36,30	3,74
38,1	97,8(94,5)	91,2	66,93	75,82	83,23	86,54	86,52	83,19	78,11	70,76	59,02	39,71	9,43
31,2	95,6(93,1)	90,2	65,49	74,19	81,94	84,89	85,07	82,25	77,84	70,77	59,60	41,35	12,83
32,1	96,0(93,2)	92,1	64,99	73,11	82,68	84,24	84,07	82,80	79,15	72,38	61,57	44,19	17,01
35,1	96,0(93,1)	90,0	65,59	72,97	79,87	83,94	85,05	83,04	79,16	72,49	62,10	45,31	19,29
40,3	95,2(92,2)	89,8	64,71	73,19	79,86	83,48	84,71	82,69	78,63	72,69	61,96	45,47	20,43
42,9	95,0(92,0)	89,9	65,31	72,86	79,68	82,69	83,82	81,85	78,21	71,76	61,83	45,90	21,46
43,1	94,5(91,6)	89,4	65,11	72,83	79,69	82,35	83,05	81,39	78,04	71,66	61,86	46,17	21,75
35,7	94,1(91,9)	88,3	65,79	72,83	78,58	81,83	82,64	80,98	77,58	71,24	61,48	45,94	21,94
30,0	93,6(90,8)	87,6	65,37	72,55	78,23	81,32	82,53	80,39	76,69	70,36	60,67	45,17	21,27
25,7	92,9(89,9)	86,9	64,63	71,97	77,74	80,63	81,81	79,68	76,08	69,73	60,01	44,47	20,49
23,1	92,5(89,5)	86,5	64,51	71,52	77,45	80,31	81,77	79,76	75,95	69,57	59,72	44,08	19,64
22,9	91,9(89,0)	86,3	64,31	70,62	76,61	79,94	80,64	78,94	75,21	68,74	58,83	42,90	18,24
20,3	91,3(88,3)	85,4	63,07	69,87	75,73	79,70	80,19	78,34	74,69	68,27	58,14	41,89	16,91
15,1	90,3(87,5)	84,4	61,22	67,45	74,19	78,07	79,51	78,19	73,85	68,97	58,58	39,80	13,74

NOZ NUMBER	=	151,000
AXIAL POSITION OF PRIMARY NZT, SECONDARY (INS,)	=	0,000
PRIMARY TEMPERATURE (R)	=	910,000
SECONDARY TEMPERATURE (R)	=	920,000
PRIMARY PRESSURE RATIO	=	1,000
AREA RATIO	=	4,456
VELOCITY RATIO	=	,375
PRIMARY VELOCITY (FT/SEC)	=	1176,402
MASS FLOW RATIO	=	3,294
PRIMARY MASS FLOW (LB/SEC)	=	,170
THRUST (LBS)	=	13,872
ENVIRONMENTAL TEMPERATURE (R)	=	534,000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29,400
ENVIRONMENTAL HUMIDITY (PER CENT)	=	33,000
CALIBRATION FACTOR (DY TO DY/SQ CM)	=	,018
INSTRUMENTATION NOISE FLOOR (DB)	=	54,588

STIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	3.01854E+01	124.8	THRUST (LBS)	POWER LEVEL(DB)
			10000	121.4
500	4.90770E+03	106.5	20000	124.4
1000	2.49965E+02	113.9	40000	127.4
2000	9.24216E+02	119.7	80000	130.4
4000	1.06430E+01	120.2		
8000	5.40944E+02	117.3		
16000	1.25650E+02	111.9		
31500	6.06846E+03	107.8		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 200	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	82.6	92.9	96.9	95.6	89.6	74.1	70.0	100.7
20.0	85.4	93.1	98.1	97.2	90.9	75.3	71.1	101.9
25.0	84.7	92.7	98.3	97.6	91.3	77.9	72.5	102.1
30.0	83.7	91.0	97.2	97.3	92.0	80.4	73.6	101.4
35.0	81.8	89.5	96.4	97.1	92.5	83.2	76.4	101.0
40.0	79.9	87.8	94.6	95.8	93.9	85.7	78.6	99.9
45.0	78.4	86.2	92.1	94.1	92.5	86.7	80.5	98.5
50.0	76.2	83.5	89.5	91.7	91.4	87.2	82.0	96.7
55.0	74.9	81.7	87.9	89.9	90.2	86.6	82.0	95.3
60.0	74.8	79.5	85.3	87.8	88.4	85.4	81.5	93.5
65.0	74.9	78.6	84.0	86.3	86.7	84.9	80.7	92.0
70.0	72.3	77.7	82.8	85.2	85.3	82.4	79.6	90.8
75.0	71.3	77.0	81.9	84.1	84.2	82.5	78.9	89.8
80.0	70.8	76.4	81.6	83.2	83.4	80.6	78.0	89.0
85.0	70.4	75.8	80.7	82.5	82.4	79.7	77.3	88.2
90.0	69.9	75.2	79.7	81.6	81.8	79.0	76.8	87.5
95.0	69.0	74.5	79.1	80.8	80.8	77.7	75.5	86.5
100.0	69.1	73.8	78.5	80.1	80.0	77.3	75.3	85.9
105.0	67.6	73.0	77.5	79.1	79.2	76.7	74.9	85.1
110.0	68.3	73.0	76.8	78.8	78.7	75.8	74.4	84.6
115.0	67.6	72.2	76.4	78.2	77.9	75.3	73.9	84.0

NOZEL THRUST = 13,872 FULL SCALE THRUST = 20000,000

L,	PWDB,	OASPL	13,2	OCTAVE 26,3	BAND 52,7	SOUND 105,1	PRESSURE 210,7	LEVELS 421,4	839,8	1659,2	3292,1	6564,1	13105,3
295,6	72,5(72,0)	77,4	62,59	69,73	73,69	72,20	65,71	47,74	40,81	26,98	7,18	-32,42	-97,67
385,7	72,4(76,0)	81,1	64,69	72,37	77,42	76,33	69,64	52,84	45,66	36,11	18,95	-11,79	-43,37
549,3	80,4(79,6)	83,1	69,84	73,60	79,43	78,58	72,61	57,68	46,91	41,45	26,94	1,57	-41,78
820,6	82,2(81,3)	83,9	66,27	73,63	79,77	79,73	74,19	61,82	53,19	45,48	32,79	10,85	-25,41
815,2	82,9(82,7)	84,7	65,60	73,37	80,14	80,81	75,64	65,99	57,48	56,43	36,99	19,47	-12,52
1114,6	85,1(83,6)	84,3	64,70	72,62	79,42	80,41	77,20	69,57	66,92	54,66	44,66	28,12	-4,28
1121,3	85,8(83,3)	83,9	63,90	71,81	77,74	79,64	77,87	71,58	63,94	57,64	47,83	31,44	4,92
1228,1	85,9(83,9)	82,6	62,47	69,79	75,27	77,97	77,49	72,28	66,22	56,26	50,93	35,97	10,66
1831,2	85,5(83,8)	82,0	61,75	68,61	74,73	76,77	76,69	72,74	66,98	61,17	52,25	37,69	14,30
1732,1	84,6(81,7)	80,6	60,19	66,88	72,68	75,15	75,54	72,11	67,04	61,37	52,77	38,84	16,84
1655,1	83,7(80,5)	79,6	60,22	66,36	71,71	74,01	74,27	71,00	66,71	61,14	52,61	39,38	18,02
1580,5	82,8(79,5)	78,7	60,35	65,76	70,84	73,19	73,19	69,89	66,06	60,68	52,45	39,37	18,97
1992,9	82,1(78,7)	77,9	60,59	65,33	70,18	72,39	72,35	69,19	65,64	60,24	52,29	39,42	19,21
1923,1	81,4(77,9)	77,4	59,39	64,96	70,65	71,81	71,64	68,49	64,90	59,56	51,64	39,02	19,14
1865,7	80,8(77,1)	76,7	58,97	64,36	69,84	71,09	70,84	67,74	64,34	59,01	51,16	38,65	18,96
1800,8	80,2(76,4)	76,2	58,52	63,84	69,35	70,14	70,19	67,07	63,83	58,52	50,68	38,21	18,58
1735,7	79,7(75,9)	75,9	58,21	63,64	67,67	69,20	68,96	65,72	62,58	57,24	49,48	36,89	17,28
1673,1	79,1(75,3)	74,3	57,61	62,37	66,94	68,37	68,29	65,13	62,24	56,93	48,58	36,48	16,47
1592,9	77,2(74,7)	73,2	56,94	61,67	65,64	67,34	67,35	64,37	61,54	56,25	48,16	35,97	15,64
1526,3	76,3(73,6)	72,5	56,34	61,03	64,94	66,83	66,61	63,27	61,03	55,54	47,42	34,12	13,43
1455,1	75,2(71,6)	71,4	55,41	59,98	64,19	65,89	65,64	62,38	59,89	54,59	46,64	32,59	11,24

RUN NUMBER	=	152,000
AXIAL POSITION OF PRIMARY WRT, SECONDARY (INS,)	=	0,000
PRIMARY TEMPERATURE (R)	=	910,000
SECONDARY TEMPERATURE (R)	=	525,000
PRIMARY PRESSURE RATIO	=	1,600
AREA RATIO	=	4,856
VELOCITY RATIO	=	,722
PRIMARY VELOCITY (FT/SEC)	=	1176,402
MASS FLOW RATIO	=	6,852
PRIMARY MASS FLOW (LB/SEC)	=	,168
THRUST (LBS)	=	35,696
ENVIRONMENTAL TEMPERATURE (R)	=	534,000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29,400
ENVIRONMENTAL HUMIDITY (PER CENT)	=	33,000
CALIBRATION FACTOR (DY TO DY/SQ CM)	=	,028
INSTRUMENTATION NOISE FLOOR (DB)	=	58,584

TIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1,27618E+00	131,1
500	3,61604E-02	115,6
1000	1,75307E-01	122,4
2000	3,51625E-01	125,5
4000	3,33061E-01	125,2
8000	2,21209E-01	123,4
16000	1,03845E-01	120,2
31500	5,49685E-02	117,4

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	155,5
20000	158,5
40000	161,6
80000	164,6

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 200	1000	2000	4000	8000	16000	31500	OVER ALL
15,0	94,6	99,8	99,4	94,0	87,0	82,0	78,6	103,9
20,0	93,7	100,3	100,9	95,6	89,0	83,2	80,4	104,8
25,0	93,6	100,3	101,7	97,1	90,5	84,8	82,0	105,3
30,0	92,5	99,6	102,4	98,3	92,2	86,5	83,6	105,7
35,0	90,9	98,6	102,0	99,8	94,1	88,3	84,9	105,8
40,0	89,3	96,6	101,1	99,9	95,2	89,6	86,5	105,1
45,0	86,9	95,5	99,6	99,7	96,3	90,6	87,1	104,6
50,0	85,4	92,8	82,3	98,6	96,5	91,5	88,0	103,1
55,0	84,2	91,7	96,8	98,1	96,7	92,4	89,8	103,0
60,0	83,4	89,9	95,1	97,0	96,4	92,9	90,0	102,2
65,0	82,5	89,5	94,2	96,0	95,6	92,4	89,2	101,4
70,0	82,0	88,5	93,4	95,1	94,9	91,9	89,1	100,7
75,0	80,7	87,4	92,2	94,2	94,3	92,0	89,7	100,1
80,0	80,7	86,6	91,5	93,5	93,6	91,3	88,9	99,4
85,0	79,9	86,6	90,8	92,7	93,1	91,1	88,6	98,8
90,0	79,9	85,4	90,2	92,4	92,8	90,8	88,3	98,5
95,0	79,3	85,0	89,5	91,9	92,4	90,7	88,2	98,1
100,0	79,0	84,3	88,9	90,9	91,7	89,7	87,2	97,2
105,0	78,3	83,9	88,4	90,7	91,4	89,6	87,2	97,0
110,0	77,3	83,3	88,3	90,4	90,8	89,0	87,2	96,6
115,0	77,2	82,6	87,5	90,3	90,7	89,0	86,7	96,3

MODEL THRUST = 35,696 FULL SCALE THRUST = 20000,000

PNDB	DASPL	OCTAVE BAND SOUND PRESSURE LEVELS 21,1	42,2	84,5	169,0	338,0	675,9	1350,8	2701,5	5280,8	10561,7	21123,3
1,6	71,4(71,1)	76,4	67,35	72,50	72,01	66,24	58,16	50,20	40,12	27,01	-10,71	-88,02 -150,89
1,7	74,3(75,7)	79,4	68,86	75,48	75,90	70,44	63,00	54,92	47,03	32,60	7,11	-36,99 -107,24
1,3	80,9(79,4)	82,7	70,62	77,14	78,69	73,82	66,53	59,06	52,11	39,84	18,66	-17,60 -75,02
1,8	82,1(82,2)	84,1	70,99	78,05	80,80	76,50	69,82	62,67	56,28	45,46	27,08	-4,09 -53,03
2,2	85,6(84,6)	85,3	70,58	78,30	81,65	77,28	73,39	65,93	60,40	49,67	33,26	5,75 -37,39
1,8	82,0(85,1)	86,4	67,24	77,24	81,78	80,11	72,21	68,50	62,63	54,55	38,58	13,71 -29,07
1,3	87,0(86,5)	85,8	63,38	76,98	81,09	81,05	77,26	70,47	64,44	53,91	42,03	19,15 -16,38
1,1	87,8(85,1)	84,8	67,62	75,31	84,52	82,58	78,16	72,16	66,40	56,30	45,26	23,91 -9,12
1,2	86,5(87,4)	86,5	67,01	74,45	79,94	80,74	78,97	73,77	68,01	60,24	47,85	27,69 -3,30
1,1	88,9(87,9)	85,0	69,70	73,21	79,25	80,11	79,18	74,85	69,89	62,37	50,48	31,25 1,69
1,1	86,6(87,5)	86,4	68,13	77,11	79,54	78,76	74,74	69,67	64,36	50,89	32,38	3,99
1,3	85,4(87,2)	86,2	69,72	72,43	77,37	76,89	78,32	74,62	69,96	62,38	51,61	33,80 6,19
1,9	88,3(87,3)	83,8	66,99	71,58	76,34	78,24	78,07	74,99	70,91	63,44	52,93	35,39 8,54
1,1	88,9(88,1)	84,3	69,12	73,99	77,82	77,72	74,58	70,29	65,32	52,91	35,24	8,88
1,7	88,5(88,1)	82,8	64,39	71,39	75,27	77,08	77,13	74,32	70,12	63,21	52,48	35,37 9,28
1,0	88,2(88,7)	82,5	64,43	69,94	74,65	76,39	76,89	74,12	69,33	63,02	52,33	35,27 9,27
1,7	87,4(88,1)	82,1	63,75	69,49	73,94	76,21	76,49	74,01	69,73	62,88	52,08	34,97 8,68
1,1	88,5(88,4)	81,4	63,34	68,63	73,25	75,54	75,69	73,49	69,64	61,59	50,88	33,61 7,25
2,9	84,4(84,1)	81,7	62,43	68,14	72,65	74,71	73,21	72,45	68,38	61,35	50,34	32,78 5,09
3,3	83,7(83,2)	81,2	62,31	67,37	72,25	74,24	74,14	71,72	68,11	61,25	49,77	31,81 4,33
3,1	84,7(82,4)	79,4	60,89	66,25	71,11	73,33	73,07	71,34	67,13	59,81	48,33	29,84 1,44

AXIAL POSITION OF PRIMARY NAT, SECONDARY (INS,)	=	3.000
PRIMARY TEMPERATURE (R)	=	910.000
SECONDARY TEMPERATURE (R)	=	525.000
PRIMARY PRESSURE RATIO	=	1.000
AREA RATIO	=	4.000
VELOCITY RATIO	=	.872
PRIMARY VELOCITY (FT/SEC)	=	1176.402
MASS FLOW RATIO	=	0.044
PRIMARY MASS FLOW (LB/SEC)	=	.197
THRUST (LBS)	=	50.843
ENVIRONMENTAL TEMPERATURE (R)	=	528.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	=	38.000
CALIBRATION RATIO (DY TO DY/SQ CM)	=	.050
INSTRUMENTATION NOISE FLOOR (DB)	=	63.999

TIC POWER AND SOUND POWER LEVEL FOR POWER JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	4.48868E+00	136.5	THRUST	POWER LEVEL(DB)
			10000	129.4
909	1.03253E-01	120.1	20000	132.4
1000	5.77797E-01	127.6	40000	135.5
2000	1.20422E+00	131.1	80000	138.5
4000	1.05616E+00	130.2		
8000	7.91474E-01	129.0		
16000	4.36647E-01	126.4		
31500	2.19090E-01	123.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND SOUND PRESSURE LEVELS 1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.9	104.3	104.3	99.0	93.0	82.0	81.0	108.6
20.0	99.5	105.8	106.4	101.1	95.0	87.9	86.6	110.2
25.0	97.8	105.6	107.3	102.8	98.3	93.1	92.3	111.0
30.0	97.0	104.9	107.9	103.8	99.3	99.1	98.8	111.5
35.0	92.7	104.3	107.8	104.0	100.0	99.4	94.8	111.2
41.7	93.7	102.2	106.8	104.0	101.4	97.2	93.8	110.7
45.0	96.1	101.4	104.9	104.7	102.3	99.3	94.8	110.0
50.0	89.5	97.7	103.2	101.8	102.4	98.8	95.7	109.1
55.0	89.5	93.6	102.1	100.3	102.3	98.8	95.3	108.4
61.7	87.4	94.8	99.9	101.5	101.1	93.3	93.6	107.1
65.0	86.6	93.5	98.7	100.4	100.7	99.3	93.5	106.4
70.0	86.1	92.2	97.6	99.5	99.8	97.9	93.2	105.5
75.0	86.1	91.7	97.1	98.9	99.3	97.3	94.7	105.0
80.0	83.6	91.5	96.1	98.4	98.8	96.9	94.8	104.4
85.0	84.6	90.8	95.8	98.3	98.8	96.9	94.3	104.2
90.0	83.7	90.9	95.1	97.3	98.1	96.6	94.1	103.7
95.0	84.6	90.3	94.5	96.8	97.8	97.8	93.3	103.1
100.0	84.7	89.8	94.2	96.8	97.4	95.4	92.8	102.8
105.0	84.0	89.2	94.7	96.2	96.8	93.2	93.0	102.5
110.0	81.9	88.3	93.0	95.7	96.0	94.6	92.1	101.9
115.0	81.8	87.3	92.8	95.4	96.4	94.8	91.7	101.7

MODEL THRUST = 50.843 FULL SCALE THRUST = 20000.000

ANGLE	500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.9	104.3	104.3	99.0	93.0	82.0	81.0	108.6
20.0	99.5	105.8	106.4	101.1	95.0	87.9	86.6	110.2
25.0	97.8	105.6	107.3	102.8	98.3	93.1	92.3	111.0
30.0	97.0	104.9	107.9	103.8	99.3	99.1	98.8	111.5
35.0	92.7	104.3	107.8	104.0	100.0	99.4	94.8	111.2
41.7	93.7	102.2	106.8	104.0	101.4	97.2	93.8	110.7
45.0	96.1	101.4	104.9	104.7	102.3	99.3	94.8	110.0
50.0	89.5	97.7	103.2	101.8	102.4	98.8	95.7	109.1
55.0	89.5	93.6	102.1	100.3	102.3	98.8	95.3	108.4
61.7	87.4	94.8	99.9	101.5	101.1	93.3	93.6	107.1
65.0	86.6	93.5	98.7	100.4	100.7	99.3	93.5	106.4
70.0	86.1	92.2	97.6	99.5	99.8	97.9	93.2	105.5
75.0	86.1	91.7	97.1	98.9	99.3	97.3	94.7	105.0
80.0	83.6	91.5	96.1	98.4	98.8	96.9	94.8	104.4
85.0	84.6	90.8	95.8	98.3	98.8	96.9	94.3	104.2
90.0	83.7	90.9	95.1	97.3	98.1	96.6	94.1	103.7
95.0	84.6	90.3	94.5	96.8	97.8	97.8	93.3	103.1
100.0	84.7	89.8	94.2	96.8	97.4	95.4	92.8	102.8
105.0	84.0	89.2	94.7	96.2	96.8	93.2	93.0	102.5
110.0	81.9	88.3	93.0	95.7	96.0	94.6	92.1	101.9
115.0	81.8	87.3	92.8	95.4	96.4	94.8	91.7	101.7

ANGLE	500	1000	2000	4000	8000	16000	31500	OVER ALL
99.6	74.71	76.71	79.6	75.51	73.23	69.69	68.07	93.26
85.7	82.61	82.31	83.7	77.16	79.24	77.60	74.47	97.14
40.3	94.51	94.71	94.2	93.39	91.04	87.67	87.36	98.52
8.0	85.21	85.61	87.1	93.97	91.84	84.20	84.37	99.32
15.2	90.81	89.41	88.1	93.84	93.11	93.67	84.83	99.33
93.6	98.31	97.21	93.4	92.87	91.59	93.03	91.03	98.11
91.3	97.71	97.11	97.1	93.29	93.54	94.14	91.31	98.16
18.1	94.31	94.41	95.2	93.15	93.37	93.34	88.39	97.51
31.2	94.21	93.71	95.1	93.71	93.39	93.34	92.55	98.24
32.1	94.21	93.31	93.2	89.13	90.91	91.05	88.23	96.22
5.1	84.71	84.31	83.1	89.60	93.69	93.14	92.23	98.72
0.1	93.21	91.11	89.2	90.20	94.63	94.72	91.77	98.72
32.0	93.41	91.61	89.1	90.13	94.19	91.61	91.37	98.69
43.1	93.41	91.21	91.1	90.48	94.14	91.17	90.63	98.54
35.7	93.11	91.21	91.1	90.34	94.14	91.17	90.63	98.54
20.0	92.71	91.21	90.1	90.07	93.31	90.71	90.24	98.34
25.7	93.11	91.21	91.1	90.34	94.14	91.17	90.63	98.54
23.1	91.41	91.21	91.1	90.34	94.14	91.17	90.63	98.54
32.0	91.41	91.61	91.1	90.48	94.14	91.17	90.63	98.54
99.0	84.41	84.01	83.1	83.14	88.14	84.44	84.24	97.14

RUN NUMBER	=	154.00 (727.00)
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	=	0.000
PRIMARY TEMPERATURE (R)	=	910.000
SECONDARY TEMPERATURE (R)	=	522.000
PRIMARY PRESSURE RATIO	=	1.000
AREA RATIO	=	9.700
VELOCITY RATIO	=	.575
PRIMARY VELOCITY (FT/SEC)	=	1124.402
MASS FLOW RATIO	=	0.025
PRIMARY MASS FLOW (LB/SEC)	=	.170
THRUST (LBS)	=	20.258
ENVIRONMENTAL TEMPERATURE (R)	=	528.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	=	70.000
CALIBRATION FACTOR (DB TO DB/50 CM)	=	-.016
INSTRUMENTATION NOISE FLOOR (DB)	=	53.552

JSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	3.609991E-01	125.6	THRUST	POWER LEVEL(DB)
			10000	152.5
500	5.678546E-03	107.5	20000	155.5
1000	3.115463E-02	114.9	40000	158.5
2000	1.002608E-01	120.0	80000	161.5
4000	1.213322E-01	120.8		
8000	7.102546E-02	118.5		
16000	2.383508E-02	113.7		
31500	7.900412E-03	109.0		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	88.7	93.1	95.5	93.1	86.2	79.1	69.7	99.5
20.0	89.7	92.9	94.4	94.2	87.2	78.2	71.1	100.1
25.0	85.5	92.7	97.3	95.9	89.6	77.9	72.8	100.9
30.0	84.1	91.8	97.9	97.0	90.2	80.6	74.7	101.8
35.0	83.0	90.4	96.6	97.0	92.1	83.0	76.8	101.1
40.0	81.4	89.1	95.0	96.7	93.4	85.4	78.4	100.0
45.0	80.1	87.2	93.5	95.4	93.3	86.9	81.2	99.4
50.0	78.6	85.5	91.7	93.6	93.0	87.9	81.5	98.0
55.0	77.4	84.2	89.8	92.2	92.1	88.8	82.1	97.3
60.0	75.8	83.0	88.3	90.9	90.9	87.3	82.2	96.2
65.0	74.9	81.6	86.6	89.5	89.6	86.5	81.7	95.4
70.0	74.1	80.3	85.2	88.2	88.3	85.4	81.5	93.8
75.0	73.5	79.1	83.8	87.2	87.5	84.1	80.5	92.9
80.0	73.6	78.1	83.0	86.5	86.7	83.4	80.6	92.1
85.0	73.2	78.1	83.1	85.6	85.6	83.6	79.6	91.2
90.0	72.3	78.0	83.3	85.6	84.6	83.8	78.6	90.9
95.0	71.6	77.8	83.3	85.4	83.7	83.8	78.4	89.6
100.0	70.9	76.4	81.1	82.9	83.4	83.5	78.6	88.9
105.0	70.2	75.9	80.2	82.1	83.2	82.5	77.0	87.9
110.0	69.3	74.9	79.6	81.6	81.6	80.8	76.0	87.3
115.0	69.1	74.3	79.1	81.5	80.9	77.9	75.1	86.7

MODEL THRUST = 20.258 FULL SCALE THRUST = 73800.00

			OCTAVE BAND SOUND PRESSURE LEVELS										
			15.6	31.3	62.5	125.0	250.0	500.0	1000.0	2000.0	4000.0	8000.0	16000.0
15.0	89.31	89.91	90.0	91.93	88.12	79.04	88.66	89.88	87.15	87.16	83.89	77.98	68.67
15.7	93.71	93.21	87.6	87.28	79.55	76.72	72.18	86.19	91.82	93.83	91.89	83.35	74.27
16.3	97.41	96.91	88.2	85.04	72.21	76.70	75.05	87.78	93.43	97.31	97.53	88.75	79.62
18.0	89.71	89.81	82.6	85.68	72.73	76.24	77.02	90.44	93.23	91.85	92.93	84.39	74.21
15.2	92.71	91.71	83.1	85.19	73.46	78.91	79.43	91.78	93.77	95.24	97.27	89.65	81.52
12.6	94.31	93.11	83.5	84.69	72.19	78.07	79.13	92.19	93.35	97.01	97.81	89.89	79.53
11.3	95.21	93.71	83.3	84.96	71.19	77.37	79.24	92.41	93.77	97.32	98.27	89.49	78.20
10.1	95.71	93.91	83.5	83.31	70.19	76.33	78.19	92.27	93.58	97.50	98.78	89.10	77.56
11.2	95.41	93.71	83.3	82.68	69.47	75.98	77.37	92.02	93.31	96.91	98.25	89.25	77.83
12.1	95.41	93.11	83.4	81.65	68.71	74.66	76.29	91.35	92.12	95.81	98.31	89.56	77.85
13.3	95.01	92.61	83.7	81.80	67.76	72.91	75.44	90.35	91.27	94.85	97.98	89.72	78.09
14.4	94.31	91.71	83.6	80.54	66.70	72.12	74.61	89.41	91.14	94.71	97.87	89.68	77.93
15.0	93.41	89.91	79.3	80.44	65.48	71.85	73.93	88.86	90.43	94.13	97.65	89.58	77.62
13.1	93.11	90.21	79.7	80.28	65.64	71.97	73.68	88.95	90.32	93.97	97.58	89.88	77.99
12.7	92.21	89.21	77.6	78.19	65.87	72.43	73.98	89.38	90.55	94.05	97.78	89.98	77.84
10.4	91.21	87.21	76.3	76.27	65.60	72.43	73.96	89.33	90.16	93.73	97.90	89.99	78.03
14.7	94.31	93.31	79.1	80.16	66.41	72.95	74.36	89.15	90.22	93.97	97.97	89.88	77.93
15.1	94.41	93.61	79.3	82.50	67.40	73.41	74.91	89.31	90.31	94.13	97.79	89.85	77.91
14.9	93.41	93.01	79.3	83.44	68.11	73.91	75.41	89.91	90.91	94.31	97.91	89.88	77.93
14.4	93.71	92.61	79.1	83.15	68.11	73.91	75.41	89.91	90.91	94.31	97.91	89.88	77.93

RUN NUMBER	= 155.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 9.7HH
VELOCITY RATIO	= .72A
PRIMARY VELOCITY (FT/SEC)	= 1176.402
MASS FLOW RATIO	= 13.37H
PRIMARY MASS FLOW (LB/SEC)	= .143
THRUST (LBS)	= 63.H90
ENVIRONMENTAL TEMPERATURE (R)	= 524.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 34.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .035
INSTRUMENTATION NOISE FLOOR (DB)	= 60.572

SYSTEM POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.82545E+00	133.1
500	1.20555E-01	120.8
1000	3.85509E-01	125.9
2000	5.57555E-01	127.5
4000	4.53436E-01	126.6
8000	2.97444E-01	124.7
16000	1.40801E-01	121.5
31500	7.01540E-02	118.5

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	155.0
20000	158.0
40000	161.0
80000	164.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	100.3	103.5	99.4	94.1	88.7	83.8	81.1	106.6
20.0	99.2	103.8	101.9	95.9	90.6	85.5	82.9	107.2
25.0	98.8	103.7	102.8	97.7	92.4	87.5	84.6	107.6
30.0	97.6	102.5	103.3	99.0	93.9	88.8	86.1	107.5
35.0	95.6	101.3	103.1	100.4	95.5	90.9	88.0	107.3
40.0	93.8	99.6	102.3	100.9	96.8	92.1	89.0	106.8
45.0	92.3	98.0	100.9	100.5	97.5	92.8	89.7	106.0
50.0	91.1	96.5	99.9	100.1	97.6	93.4	90.2	105.4
55.0	88.1	95.3	98.7	99.8	97.7	93.8	90.5	104.6
60.0	88.4	94.4	97.8	98.4	97.3	93.9	90.6	104.0
65.0	87.3	93.8	96.9	97.6	96.7	93.8	90.4	103.2
70.0	87.6	92.6	95.7	96.8	96.4	93.7	90.4	102.7
75.0	86.6	91.6	94.9	95.8	95.6	92.9	89.8	101.8
80.0	86.6	90.7	94.3	95.5	95.1	92.6	89.6	101.4
85.0	85.2	90.3	94.0	94.8	94.4	92.1	89.4	100.9
90.0	84.8	87.8	93.8	94.2	93.8	91.5	88.3	100.0
95.0	84.7	88.7	92.5	93.5	93.3	90.9	87.9	99.5
100.0	84.5	88.4	91.8	93.2	92.8	90.3	87.9	99.1
105.0	83.3	88.0	91.7	92.7	92.3	89.9	87.4	98.7
110.0	82.1	87.7	91.0	92.3	91.8	89.4	86.8	98.2
115.0	82.0	86.8	90.7	91.9	91.6	89.4	86.8	97.9

MODEL THRUST = 63.890 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	28.3	OCTAVE 56.5	BAND 113.0	SOUND 226.1	PRESSURE 452.2	LEVELS 904.3	1780.4	3560.8	7065.0	14130.0	28260.0
15.6	71.6(71.4)	76.6	70.54	73.69	69.36	63.51	56.44	47.31	35.04	11.59	-30.02	-100.66	-209.56
18.7	77.6(76.7)	79.7	71.85	76.38	74.36	67.89	61.33	53.04	43.27	24.80	-7.42	-61.60	-144.73
19.3	80.7(80.3)	81.9	73.05	78.17	77.15	71.66	65.39	57.82	49.14	33.62	6.97	-37.45	-105.30
20.0	83.4(82.8)	83.2	73.58	78.43	79.11	74.54	68.54	61.28	53.66	40.09	17.11	-28.91	-78.71
15.2	85.7(85.0)	84.2	72.80	78.43	80.11	77.15	71.54	64.96	57.79	45.56	25.14	-8.38	-59.16
35.6	87.2(86.4)	85.6	71.96	77.77	80.36	78.70	73.95	67.55	60.64	49.41	30.06	.62	-45.81
21.3	88.0(87.0)	84.6	71.32	76.91	79.78	79.10	75.58	69.76	62.76	52.28	35.15	7.39	-34.30
50.1	88.6(87.5)	84.6	70.77	76.15	79.50	79.48	76.45	70.82	64.33	54.42	38.38	12.83	-26.25
51.2	88.8(87.5)	84.3	69.33	75.90	78.92	79.02	77.16	71.96	65.69	56.13	40.93	16.56	-19.90
52.1	89.1(87.8)	84.2	69.14	75.10	78.43	78.84	77.27	72.64	66.50	57.39	42.85	19.64	-15.00
55.1	89.0(87.6)	83.8	68.47	74.47	77.92	78.30	77.12	73.00	66.88	58.04	44.02	21.70	-11.54
56.3	89.1(87.6)	83.6	68.05	73.69	77.66	78.06	77.20	73.25	67.36	58.73	45.10	23.47	-8.70
52.0	88.5(86.9)	82.9	68.34	73.19	76.54	77.28	76.37	72.78	67.32	58.85	45.50	24.38	-7.88
23.1	88.4(86.7)	82.7	68.43	72.58	76.10	77.11	76.32	72.68	67.15	58.78	45.64	24.86	-5.87
65.7	88.0(86.2)	82.2	67.21	72.19	75.84	76.64	75.68	72.27	67.13	58.82	45.79	25.21	-5.29
66.6	87.2(85.5)	81.3	66.81	69.47	74.90	75.93	75.18	71.70	66.66	57.77	44.77	24.27	-6.14
65.7	86.6(84.9)	80.9	66.68	70.66	74.23	75.22	74.57	71.05	65.60	57.29	44.26	23.68	-6.91
23.1	86.1(84.4)	80.3	66.31	70.19	73.98	74.82	74.03	70.42	65.65	57.04	43.93	23.15	-7.67
52.0	85.4(83.7)	79.7	64.96	69.64	73.34	74.16	73.30	69.81	64.77	56.29	42.95	21.82	-9.55
96.3	84.6(82.9)	79.0	63.59	69.14	72.38	73.48	72.55	69.02	63.72	55.09	41.46	19.83	-12.34
95.1	83.9(82.2)	78.3	63.15	67.90	71.74	72.87	71.97	68.56	63.26	54.58	40.78	19.09	-13.14

RUN NUMBER	= 156 (729)
AXIAL POSITION OF PRIMARY NOZ, SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= 534.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 9.788
VELOCITY RATIO	= .880
PRIMARY VELOCITY (FT/SEC)	= 1176.402
MASS FLOW RATIO	= 10.385
PRIMARY MASS FLOW (LB/SEC)	= .152
THRUST (LBS)	= 95.174
ENVIRONMENTAL TEMPERATURE (R)	= 529.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 34.000
CALIBRATION FACTOR (MV TO DYNES CM)	= .079
INSTRUMENTATION NOISE FLOOR (DB)	= 67.587

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	8.10255E+00	139.1
500	4.98603E-01	127.0
1000	1.60415E+00	132.1
2000	2.21350E+00	133.5
4000	1.66410E+00	132.2
8000	1.17746E+00	130.7
16000	6.24713E-01	128.0
31500	3.20020E-01	125.1

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	159.3
20000	162.3
40000	165.3
80000	168.3

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	106.8	109.7	108.8	101.0	95.8	91.1	88.1	113.2
20.0	105.6	110.8	108.5	103.1	98.0	93.3	90.1	114.1
25.0	105.1	110.2	109.4	103.6	98.7	94.3	91.5	114.1
30.0	103.1	109.7	109.7	105.3	100.4	95.6	92.2	114.1
35.0	102.4	107.7	109.2	106.2	101.7	97.4	94.3	113.5
40.0	99.7	105.9	108.4	106.5	103.1	98.9	95.7	112.9
45.0	98.8	103.9	106.9	106.0	103.1	99.5	96.5	111.9
50.0	96.4	102.3	105.4	105.2	103.5	99.9	96.8	111.0
55.0	94.4	75.4	104.4	104.7	103.5	100.2	97.1	109.9
60.0	94.1	100.0	103.4	103.9	103.1	100.0	96.4	109.7
65.0	93.2	98.6	102.3	103.0	102.[illegible]	99.8	96.7	108.9
70.0	92.3	97.3	101.0	102.0	101.[illegible]	99.[illegible]	96.8	108.1
75.0	92.2	96.5	100.1	101.4	101.0	99.3	96.5	107.4
80.0	91.7	96.4	99.7	100.8	100.6	98.6	96.0	107.0
85.0	91.1	95.3	99.0	100.1	100.2	98.3	95.7	106.4
90.0	90.3	95.0	98.3	99.6	99.6	97.9	95.2	105.9
95.0	90.1	94.3	97.9	99.1	99.2	97.4	94.9	105.4
100.0	88.8	93.9	97.9	99.2	99.3	97.1	94.8	105.4
105.0	88.8	93.8	97.1	98.6	99.1	97.2	94.5	105.0
110.0	88.0	93.4	97.2	98.5	99.8	96.9	94.2	104.8
115.0	87.6	92.8	96.8	98.4	99.8	96.7	94.0	104.6

MODEL THRUST = 95.174 FULL SCALE THRUST = [illegible]

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS							
			34.5	69.0	138.0	275.9	551.9	1103.7	2173.0	4346.0	8622.9	17245.9	34491.7
95.6	78.5(78.5)	81.4	75.31	78.09	74.94	68.34	[illegible]	[illegible]	35.85	7.95	-40.78	-121.56	-242.60
85.7	83.5(83.4)	84.8	76.55	81.67	79.16	73.12	[illegible]	[illegible]	45.35	23.51	-14.09	-75.95	-168.28
49.3	86.5(86.2)	86.6	77.86	82.34	81.90	75.66	69.42	61.64	51.53	33.28	2.28	-48.36	-123.65
80.0	88.2(88.5)	88.0	77.34	83.84	83.76	78.91	72.85	65.26	55.70	39.81	13.14	-30.12	-94.22
15.2	90.7(90.2)	88.6	77.83	84.07	84.46	81.09	75.77	68.79	59.41	46.17	22.54	-15.56	-71.82
33.6	92.1(91.5)	88.8	76.13	82.24	84.71	82.46	78.13	71.73	63.75	50.72	29.31	-5.01	-55.54
21.3	92.6(91.9)	88.6	76.86	81.08	84.01	82.83	79.08	73.47	66.15	54.04	34.31	2.83	-43.37
58.1	92.9(92.1)	88.3	74.30	80.19	83.17	82.79	80.35	74.88	67.69	56.28	37.83	8.55	-34.33
31.2	92.4(91.6)	87.6	72.96	63.93	82.82	82.83	80.98	75.54	69.06	58.19	40.75	13.17	-27.13
37.1	93.3(92.3)	88.0	73.09	78.98	82.26	82.[illegible]	[illegible]	[illegible]	69.22	58.78	42.12	15.87	-22.41
56.1	93.2(92.1)	87.5	72.62	77.95	81.56	82.04	[illegible]	[illegible]	70.15	60.04	43.49	18.77	-17.94
66.1	93.0(91.8)	87.0	71.98	77.01	[illegible]	81.44	[illegible]	[illegible]	70.76	60.91	45.31	20.89	-14.62
52.9	92.7(91.4)	86.5	72.13	76.41	79.93	81.32	[illegible]	[illegible]	70.90	61.23	45.98	22.14	-12.49
23.1	92.4(91.1)	86.2	71.87	76.47	79.73	[illegible]	[illegible]	[illegible]	70.84	61.10	46.08	22.64	-11.39
65.7	92.1(90.7)	85.7	71.32	75.51	79.12	79.97	[illegible]	[illegible]	70.52	61.05	46.17	22.96	-10.71
88.0	91.6(90.2)	85.3	70.54	75.22	[illegible]	[illegible]	[illegible]	[illegible]	70.08	60.64	45.80	22.67	-10.83
89.7	91.1(89.7)	84.7	70.29	74.91	77.95	[illegible]	[illegible]	[illegible]	69.72	60.25	45.37	22.10	-11.51
23.1	90.9(89.6)	84.6	68.91	73.77	77.10	[illegible]	[illegible]	[illegible]	69.45	59.91	44.89	21.45	-12.57
57.9	90.4(89.1)	84.0	68.74	73.73	77.00	78.27	74.12	67.81	68.85	59.18	43.93	20.09	-14.54
94.3	89.8(88.5)	83.6	67.71	73.11	76.42	77.51	[illegible]	[illegible]	68.24	58.38	42.79	18.34	-17.15
99.1	89.2(88.0)	83.0	66.97	72.14	[illegible]	[illegible]	[illegible]	[illegible]	67.48	57.37	41.32	16.10	-20.61

RUN NUMBER	= 157.000
AXIAL POSITION OF PRIMARY WRT, SECONDARY (INS.)	= NONE
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 1590.001
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= .263
THRUST (LBS)	= 13.003
ENVIRONMENTAL TEMPERATURE (R)	= 550.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 19.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .100
INSTRUMENTATION NOISE FLOOR (DB)	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.52944E+01	141.8
500	1.17172E-02	110.7
1000	1.05246E-01	120.2
2000	8.72443E-01	129.4
4000	3.28741E+00	135.2
8000	5.78914E+00	137.6
16000	3.54952E+00	135.5
31500	1.67894E+00	132.3

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	170.7
20000	173.7
40000	176.7
80000	179.7

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	87.8	95.0	98.5	100.2	100.2	99.7	97.8	106.7
20.0	88.5	97.4	103.8	107.0	108.8	107.3	103.7	113.7
25.0	88.3	96.5	104.9	110.4	113.0	112.1	107.9	117.6
30.0	87.1	97.4	106.6	110.9	113.3	111.3	106.5	117.5
35.0	86.5	96.7	106.8	111.9	113.9	110.9	106.1	117.9
40.0	85.1	95.9	106.4	112.2	113.5	110.3	106.1	117.7
45.0	83.2	93.6	105.0	111.8	113.8	109.7	105.4	117.6
50.0	81.6	91.4	102.4	110.0	112.9	109.2	105.1	116.3
55.0	78.6	88.7	99.1	107.6	110.9	108.0	105.3	114.8
60.0	78.1	86.5	96.2	104.0	108.3	107.7	105.2	112.8
65.0	76.9	84.9	93.3	99.7	104.0	104.9	103.9	109.7
70.0	76.9	84.0	92.0	97.7	102.2	103.3	102.0	107.9
75.0	76.9	84.3	91.5	96.7	101.2	102.4	101.1	107.0
80.0	76.9	84.0	90.9	95.9	99.5	100.7	99.9	105.6
85.0	75.6	84.0	90.6	94.8	98.3	99.8	99.3	104.7
90.0	76.9	84.3	90.6	94.6	98.1	99.3	98.5	104.2
95.0	75.6	83.4	90.0	93.8	97.1	98.3	98.0	103.4
100.0	74.8	82.5	88.8	92.8	96.5	98.1	97.3	102.8
105.0	74.8	82.1	88.4	91.9	95.8	97.8	96.8	102.3
110.0	73.1	80.9	87.1	91.7	95.0	97.1	96.2	101.6
115.0	72.1	79.1	86.4	91.1	95.3	97.0	96.0	101.5

MODEL THRUST = 13.003 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 12.7	25.5	51.0	102.0	204.0	408.0	803.2	1606.4	3187.3	6374.5	12749.1
5705.6	85.3(83.9)	82.8	64.97	72.16	75.65	77.14	76.68	74.66	69.18	57.60	36.48	-2.88	-67.80
4385.7	95.9(94.3)	92.4	68.07	77.00	83.34	86.37	87.80	85.29	78.98	64.48	52.78	22.86	-27.60
3549.3	102.7(100.7)	98.3	69.75	79.89	87.28	91.65	94.03	92.18	85.79	77.54	63.45	38.87	-2.75
3000.0	104.1(101.9)	99.8	69.95	80.30	89.41	93.66	95.76	93.03	86.36	78.92	66.54	45.14	9.67
2615.2	105.8(103.5)	101.5	70.54	80.78	90.89	95.84	97.65	93.97	87.58	80.71	69.54	50.69	19.19
2333.6	106.8(104.3)	102.4	70.19	80.93	91.40	97.21	98.29	94.47	88.46	82.43	72.14	54.82	26.57
2121.3	107.5(105.0)	103.0	69.15	79.48	90.86	97.62	99.43	94.81	89.22	83.07	73.44	57.43	31.47
1958.1	107.5(104.7)	102.6	64.20	77.99	89.80	96.51	99.27	95.05	89.79	83.89	74.78	59.76	35.57
1831.2	107.8(103.7)	101.6	65.78	75.82	86.29	94.67	97.48	95.24	90.62	84.91	76.19	61.95	39.13
1732.1	106.3(102.7)	100.0	65.74	74.20	83.49	91.46	95.69	94.69	91.13	85.56	77.15	63.52	41.77
1655.1	104.3(100.2)	97.4	64.98	72.97	81.38	87.70	91.87	92.16	90.34	84.89	76.72	63.57	42.65
1596.3	102.9(98.9)	95.9	65.29	72.41	80.37	86.06	90.40	91.09	89.74	83.38	75.39	62.60	42.32
1552.9	102.4(98.2)	95.3	65.53	72.93	80.98	85.27	89.56	90.44	89.17	82.87	75.02	62.49	42.68
1523.1	101.2(96.9)	94.0	65.70	72.81	79.68	84.62	88.10	88.98	87.20	81.94	74.18	61.84	42.35
1505.7	100.5(96.1)	93.3	64.46	72.91	79.68	83.44	87.03	88.11	86.71	81.48	73.77	61.53	42.93
1500.3	100.0(95.7)	92.8	65.83	73.23	79.51	83.40	86.79	87.62	85.92	80.69	73.01	60.89	41.57
1505.7	99.1(94.8)	92.0	64.46	72.31	78.44	82.61	85.42	86.60	85.36	80.11	72.60	60.17	40.47
1523.1	98.5(94.2)	91.3	63.60	71.73	77.51	81.58	85.09	86.36	84.55	79.38	71.54	58.19	38.78
1552.9	97.8(93.6)	90.6	63.43	70.71	76.96	80.65	84.23	85.85	83.94	78.54	70.69	58.16	38.35
1596.3	96.8(92.6)	89.7	61.45	69.31	75.65	79.96	83.15	84.84	83.01	77.65	69.66	56.88	38.59

RUN NUMBER	= 158.000
AXIAL POSITION OF PRIMARY NOZ, SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= 547.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .406
PRIMARY VELOCITY (FT/SEC)	= 1590.001
MASS FLOW RATIO	= .640
PRIMARY MASS FLOW (LB/SEC)	= .267
THRUST (LBS)	= 16.805
ENVIRONMENTAL TEMPERATURE (R)	= 546.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 10.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .099
INSTRUMENTATION NOISE FLOOR (DB)	= 68.587

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.30610E+01	141.2
500	3.03385E-02	114.8
1000	2.16498E-01	123.4
2000	9.99572E-01	130.0
4000	2.69901E+00	134.3
8000	4.54541E+00	136.6
16000	3.07078E+00	134.9
31500	1.49940E+00	131.8

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	168.9
20000	171.9
40000	174.9
80000	177.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRES[illegible] LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	93.3	99.7	101.8	101.6	101.2	100.3	98.3	108.5
20.0	93.3	100.6	105.3	107.7	109.4	108.4	106.1	114.8
25.0	92.9	101.5	107.0	109.4	111.3	109.7	106.3	116.2
30.0	91.8	101.4	107.8	110.8	112.6	111.0	107.0	117.4
35.0	90.7	100.2	107.3	110.8	112.6	110.5	106.5	117.2
40.0	89.1	98.6	106.4	111.1	112.6	110.1	105.8	117.0
45.0	86.8	96.6	104.8	110.5	112.5	109.4	105.3	116.5
50.0	84.8	94.2	102.4	109.7	111.5	108.3	104.5	115.2
55.0	82.8	91.3	99.6	106.4	109.8	107.9	105.1	113.9
60.0	81.0	89.4	97.2	103.2	106.9	106.5	104.0	111.6
65.0	79.0	87.1	94.2	99.9	104.0	104.7	103.3	109.5
70.0	79.0	86.6	93.0	98.3	102.4	103.2	101.9	108.0
75.0	79.5	86.0	92.0	96.6	100.6	101.4	100.0	106.2
80.0	79.5	85.5	91.4	95.8	99.2	100.1	98.9	105.1
85.0	79.0	85.3	91.2	95.4	98.4	99.2	97.5	104.2
90.0	79.0	85.1	90.5	94.6	97.9	98.5	96.8	103.5
95.0	78.1	84.1	90.1	93.7	96.7	97.7	95.9	102.6
100.0	77.1	83.6	89.0	93.0	96.1	97.0	95.1	101.9
105.0	76.5	83.0	88.5	92.5	95.7	96.5	94.5	101.4
110.0	75.9	82.1	88.1	91.8	95.0	96.0	94.0	100.8
115.0	75.3	81.1	87.4	91.6	94.7	95.8	93.5	100.5

MODEL THRUST = 16.805 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	14.5	OCTAVE BAND SOUND PRESSURE LEVELS 29.0	58.0	115.9	231.9	463.8	913.1	1826.2	3623.4	7246.8	14493.5
795.6	85.2(84.1)	83.7	69.31	75.73	77.79	77.42	76.31	73.67	67.44	54.48	30.85	-11.96	-83.85
785.7	96.0(94.4)	92.2	71.82	79.05	83.70	85.93	87.18	84.91	79.30	68.85	50.23	17.11	-38.02
749.3	99.9(98.1)	95.7	73.23	81.84	87.21	89.49	91.02	88.37	82.48	73.30	57.66	30.29	-14.90
708.0	102.9(100.9)	98.5	73.57	83.12	89.51	92.40	93.89	91.38	85.21	77.06	63.37	39.77	1.11
715.2	104.2(102.0)	99.6	73.70	83.11	90.23	93.65	95.12	92.74	86.37	78.82	66.51	45.55	11.47
733.6	105.2(102.9)	100.5	73.09	82.51	90.34	94.90	96.19	93.62	86.96	79.95	68.64	49.62	18.88
721.3	105.7(103.3)	100.8	71.59	81.39	89.53	95.21	96.90	93.27	87.66	80.95	70.40	52.83	24.61
758.1	105.5(102.8)	100.2	70.31	79.65	87.88	94.10	96.65	92.87	87.67	81.31	71.33	54.89	28.61
731.2	105.1(102.0)	99.4	69.90	77.40	85.60	92.36	95.54	93.15	88.00	82.86	73.34	57.76	32.99
722.1	104.0(100.7)	97.7	67.51	75.89	83.76	89.63	93.17	92.29	88.49	82.91	73.34	58.45	34.86
695.1	102.8(99.0)	95.4	65.97	74.07	81.16	86.88	90.49	90.49	88.24	82.46	73.50	59.14	36.47
696.3	101.7(97.9)	94.7	66.28	73.82	80.22	85.48	89.36	89.70	87.22	81.48	72.79	58.83	36.46
692.9	100.2(96.4)	93.2	66.94	73.66	79.48	84.03	87.83	88.14	85.66	79.97	71.44	57.77	36.32
623.1	99.3(95.4)	92.3	67.11	73.70	79.05	83.39	86.62	87.11	84.73	79.11	70.69	57.23	36.12
585.7	98.4(94.6)	91.5	66.79	73.08	78.90	83.06	86.24	86.29	83.68	77.90	69.54	56.19	35.30
580.0	97.8(94.0)	90.9	66.82	72.89	78.27	82.32	85.63	85.60	82.86	77.22	68.88	55.58	34.75
585.7	98.8(93.0)	89.9	65.87	71.[illegible]	77.41	81.34	84.19	84.74	81.87	76.20	67.92	54.58	33.89
623.1	96.0(92.2)	89.1	64.75	71.27	76.63	80.58	83.57	83.46	80.98	75.36	66.96	53.68	32.97
652.9	95.2(91.5)	88.4	64.02	70.54	75.96	79.91	82.93	83.30	80.19	74.52	65.99	52.32	30.86
596.3	94.4(90.7)	87.6	63.18	69.34	75.34	79.03	82.01	82.54	79.39	73.65	64.96	51.08	29.03
655.1	93.6(90.0)	86.9	62.23	68.65	74.29	78.48	81.42	82.02	78.47	72.63	63.74	49.37	26.70

RUN NUMBER	= 150.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= 542.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .656
PRIMARY VELOCITY (FT/SEC)	= 1590.001
MASS FLOW RATIO	= 1.175
PRIMARY MASS FLOW (LB/SEC)	= .269
THRUST (LBS)	= 23.174
ENVIRONMENTAL TEMPERATURE (R)	= 543.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.900
ENVIRONMENTAL HUMIDITY (PER CENT)	= 20.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .100
INSTRUMENTATION NOISE FLOOR (DB)	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.44940E+01	161.6
500	4.18413E-02	116.2
1000	3.27149E-01	125.1
2000	1.71029E+00	132.3
4000	3.66462E+00	135.6
8000	4.46483E+00	136.5
16000	2.89357E+00	134.6
31500	1.39167E+00	131.4

OVERALL SOUND POWER LEVEL-SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	168.0
20000	171.0
40000	174.0
80000	177.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	95.1	102.1	105.5	105.6	103.3	99.9	94.9	111.6
20.0	94.9	103.5	108.5	110.0	110.1	107.5	102.1	115.7
25.0	94.3	103.6	109.9	111.2	111.3	108.8	104.0	116.9
30.0	93.2	102.8	110.0	111.8	111.4	108.6	104.8	117.1
35.0	92.0	101.5	109.5	112.5	112.4	110.1	106.0	117.8
40.0	90.3	100.3	108.8	112.2	111.7	108.9	104.9	117.1
45.0	87.8	97.9	106.8	111.5	112.0	108.8	104.8	116.6
50.0	86.7	95.5	104.2	109.6	111.5	108.9	105.2	115.7
55.0	83.2	92.3	101.0	106.8	109.7	107.7	104.9	113.9
60.0	82.0	90.3	96.0	104.1	107.2	106.7	104.0	112.0
65.0	81.2	89.0	96.5	101.8	104.9	105.0	103.2	110.2
70.0	81.2	88.5	95.1	100.3	103.7	104.0	102.4	109.1
75.0	80.8	87.8	94.2	98.8	101.9	102.2	100.9	107.4
80.0	80.4	87.4	93.9	98.4	100.8	100.8	99.7	106.4
85.0	80.0	87.2	93.2	97.3	100.0	100.2	98.9	105.6
90.0	80.0	86.5	92.6	96.5	99.2	99.5	97.9	104.8
95.0	79.6	86.1	91.8	95.8	98.6	99.2	97.0	104.2
100.0	78.6	85.4	91.1	94.8	97.5	99.0	96.1	103.5
105.0	78.1	84.9	90.6	94.4	97.1	98.5	95.5	103.0
110.0	76.9	83.6	89.7	93.9	96.6	98.0	95.0	102.5
115.0	76.3	82.5	88.8	93.5	96.3	97.9	94.5	102.2

MODEL THRUST = 23.174 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	17.0	OCTAVE 34.0	BAND 68.1	SOUND 136.2	PRESSURE 272.3	LEVELS 544.6	1072.2	2144.5	4254.9	8509.8	17019.7
5795.6	85.5(84.9)	85.0	69.71	76.73	80.07	79.91	76.76	71.25	61.03	46.10	18.90	-29.71	-109.80
4585.9	94.9(93.9)	92.0	71.98	80.53	85.50	86.81	86.33	82.06	72.71	60.68	39.37	1.86	-59.44
3549.3	98.6(97.3)	95.1	73.25	82.53	88.77	89.87	89.53	85.66	77.68	67.37	49.56	18.62	-31.59
3000.0	100.6(99.1)	96.9	73.56	83.20	90.20	91.00	91.18	87.30	80.79	71.61	56.08	29.48	-13.43
2615.7	103.0(101.2)	98.7	73.52	83.06	90.98	93.95	93.65	90.21	83.76	75.37	61.65	37.87	.09
2333.6	103.5(101.5)	99.1	72.82	82.65	91.35	94.62	93.84	90.13	83.99	76.19	63.44	42.08	8.04
2121.3	104.3(102.2)	99.5	71.19	81.28	90.19	94.77	94.92	90.92	85.09	77.72	65.86	46.17	14.95
1958.1	104.7(102.3)	99.2	70.75	79.96	88.27	93.52	95.19	91.85	86.43	79.48	68.23	49.82	20.77
1831.2	103.9(101.1)	97.9	67.91	77.00	85.01	91.30	93.96	91.29	86.84	80.07	69.42	52.01	24.65
1732.1	102.8(99.7)	96.5	67.11	75.49	83.16	89.16	92.02	90.90	86.63	80.07	69.83	53.20	27.17
1655.1	101.7(98.4)	95.0	66.78	74.52	82.00	87.21	90.09	89.59	86.32	79.91	70.08	53.98	28.96
1596.3	101.1(97.7)	94.3	67.09	74.33	80.97	86.05	89.21	88.95	85.93	79.64	69.98	54.42	30.18
1552.9	99.4(96.2)	92.9	66.94	73.85	80.26	84.75	87.72	87.36	84.73	78.53	69.65	53.82	30.17
1523.1	98.8(95.3)	92.1	66.71	73.63	80.12	84.57	86.77	86.14	83.74	77.60	68.25	53.26	30.00
1505.7	98.3(94.7)	91.6	66.38	73.53	79.57	83.55	86.09	85.73	83.08	76.98	67.69	52.84	29.81
1500.0	97.9(94.0)	90.6	66.42	72.93	79.02	82.91	85.26	85.08	82.06	75.98	66.71	51.91	29.96
1505.7	98.4(93.6)	90.0	66.94	72.69	78.10	82.10	84.67	84.71	81.14	75.04	65.75	50.98	29.87
1523.1	96.1(92.7)	89.2	66.87	71.66	77.30	80.99	83.67	84.00	80.14	74.01	64.85	49.66	29.60
1552.9	95.3(92.1)	88.5	66.18	70.96	76.69	80.37	82.92	83.72	79.36	73.14	63.86	48.44	29.74
1596.3	94.4(91.2)	87.7	62.78	69.29	75.48	79.05	82.12	82.93	78.53	72.25	62.58	47.02	29.79
1655.1	93.7(90.6)	87.0	61.82	68.00	74.27	78.52	81.55	82.50	77.80	71.19	61.28	45.26	28.24

RUN NUMBER	= 160.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INCHES)	= 0.000
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= 535.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .402
PRIMARY VELOCITY (FT/SEC)	= 1590.001
MASS FLOW RATIO	= 1.481
PRIMARY MASS FLOW (LB/SEC)	= .265
THRUST (LBS)	= 20.868
ENVIRONMENTAL TEMPERATURE (R)	= 542.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 25.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .079
INSTRUMENTATION NOISE FLOOR (DB)	= 67.587

ISTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.47446E+00	138.7
500	2.92436E-02	114.7
1000	2.03953E-01	123.1
2000	8.34546E-01	129.2
4000	1.64382E+00	132.2
8000	2.4933-E+00	134.0
16000	1.66104E+00	132.2
31500	6.08512E-01	127.8

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	165.5
20000	168.6
40000	171.6
80000	174.6

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	93.5	100.4	102.6	102.5	103.0	101.2	95.1	109.3
20.0	93.4	101.8	105.5	106.3	107.7	106.4	98.8	113.2
25.0	92.8	101.9	107.1	108.2	109.5	107.6	101.5	114.7
30.0	91.4	100.8	107.0	108.4	109.9	108.2	103.4	115.1
35.0	90.1	99.6	106.6	108.5	109.5	108.0	102.7	114.7
40.0	88.7	97.5	105.1	108.7	110.6	108.5	102.4	115.0
45.0	87.0	95.6	103.3	108.3	109.9	108.7	101.3	114.0
50.0	84.7	92.9	101.0	106.6	108.5	105.5	101.2	112.6
55.0	82.1	90.7	97.9	103.4	106.1	104.3	100.8	110.4
60.0	80.6	87.9	95.5	100.2	103.5	102.9	100.0	108.3
65.0	80.0	87.2	93.5	98.0	101.2	101.1	98.9	106.3
70.0	79.6	86.1	91.6	95.9	99.3	99.1	97.5	104.5
75.0	79.6	85.4	90.9	94.9	98.0	97.9	96.5	103.4
80.0	78.9	85.2	90.7	94.0	96.7	96.9	95.5	102.3
85.0	78.5	84.5	89.8	93.3	95.7	95.8	94.5	101.4
90.0	78.0	83.9	88.9	92.3	94.5	94.5	93.5	100.3
95.0	78.5	83.4	88.5	91.8	94.2	93.7	92.8	99.7
100.0	77.6	83.1	88.2	91.3	93.6	93.0	92.1	99.1
105.0	76.6	82.0	87.1	90.4	92.5	92.2	91.0	98.1
110.0	75.5	81.8	86.6	89.8	92.2	91.5	90.8	97.7
115.0	75.5	81.1	86.2	89.5	91.8	91.0	89.9	97.2

MODEL THRUST = 20.868 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	16.2	OCTAVE 32.3	BAND 64.6	SOUND 129.2	PRESSURE 258.4	LEVELS 516.8	1017.5	2035.0	4037.7	8075.5	16150.9
5.6	85.2(84.5)	83.6	68.63	75.45	77.59	77.29	77.08	73.19	62.26	48.01	22.02	-24.63	-101.99
5.7	92.7(91.7)	89.8	70.90	79.27	83.01	83.61	84.66	81.59	74.31	59.79	38.40	2.36	-56.91
5.3	96.9(95.6)	93.3	72.20	81.23	86.41	87.38	88.28	85.08	75.97	66.08	49.00	19.27	-24.27
8.8	99.4(97.7)	95.3	72.21	81.63	87.40	89.05	90.16	87.98	80.12	71.29	56.39	30.79	-10.70
5.2	100.4(98.6)	96.1	72.09	81.57	88.59	90.32	91.04	88.63	81.14	73.06	59.69	36.99	.99
3.6	102.1(100.2)	97.5	71.67	80.47	88.12	91.50	92.23	90.31	82.24	74.72	62.47	41.89	8.95
1.3	102.1(100.0)	97.3	70.81	79.65	87.11	92.02	93.31	89.43	82.25	75.13	63.72	44.74	14.52
8.1	101.8(99.4)	96.6	69.21	77.44	85.67	90.98	92.72	88.98	83.07	76.27	65.50	47.75	19.63
1.2	100.4(97.9)	95.0	67.23	75.79	83.00	89.39	90.90	88.49	83.42	76.86	66.60	49.80	23.31
2.1	97.4(96.3)	93.3	66.24	73.52	81.09	85.67	87.80	87.61	83.24	76.90	67.03	50.98	24.76
5.1	94.2(94.9)	91.7	65.96	71.15	79.68	83.92	86.90	86.19	82.58	76.37	66.80	51.34	27.10
6.3	93.9(93.4)	90.3	65.92	72.44	77.86	82.15	85.32	84.61	81.62	75.52	66.19	51.16	27.68
2.9	95.0(92.5)	89.4	66.16	71.32	77.42	81.41	84.30	83.59	80.93	74.92	65.76	51.00	28.13
3.1	94.3(91.6)	88.6	65.58	71.89	77.35	80.62	83.12	82.79	80.13	74.17	65.13	50.66	28.11
5.7	94.4(90.7)	87.7	65.27	71.36	76.56	80.00	82.28	81.85	79.22	73.29	64.32	49.98	27.66
0.0	93.3(89.5)	86.6	64.88	70.24	75.75	79.05	81.09	80.53	78.33	72.42	63.47	49.17	26.92
5.7	92.5(88.9)	86.1	65.27	70.30	75.27	78.59	80.72	79.72	77.52	71.60	62.63	48.29	25.97
3.1	91.7(88.1)	85.3	64.30	69.45	74.85	77.91	80.00	78.87	76.70	70.75	61.70	47.23	24.59
2.9	90.5(86.9)	84.2	63.17	68.40	73.88	76.95	78.75	77.88	75.82	69.80	60.24	45.56	22.62
4.3	89.7(86.1)	83.5	61.88	66.36	72.86	76.13	78.19	77.99	74.95	69.05	59.52	44.50	21.02
5.1	88.7(85.2)	82.7	61.53	67.13	72.15	75.41	77.36	76.11	73.88	67.67	57.90	42.43	18.21

RUN NUMBER	
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 162.000
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 910.000
PRIMARY PRESSURE RATIO	= 533.000
AREA RATIO	= 2.500
VELOCITY RATIO	= 4.956
PRIMARY VELOCITY (FT/SEC)	= .681
MASS FLOW RATIO	= 1990.001
PRIMARY MASS FLOW (LB/SEC)	= 3.040
THRUST (LBS)	= .703
ENVIRONMENTAL TEMPERATURE (R)	= 28.996
ENVIRONMENTAL PRESSURE (IN.HG)	= 530.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 29.000
INSTRUMENTATION NOISE FLOOR (DB)	= .063
	= 65.500

ISTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.560026E+00	136.6
500	3.816896E-02	115.8
1000	1.935806E-01	122.9
2000	6.891346E-01	128.4
4000	1.198916E+00	130.8
8000	1.531946E+00	131.9
16000	6.804396E-01	128.3
31500	2.277936E-01	123.6

OVERALL SOUND POWER LEVEL+SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	162.8
20000	165.9
40000	168.8
80000	171.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	95.3	98.9	101.9	101.8	101.1	96.8	89.8	107.3
20.0	94.0	101.7	104.8	105.5	105.7	99.3	91.6	111.1
25.0	94.0	102.0	105.8	106.3	106.6	99.3	92.3	111.6
30.0	93.0	100.9	105.7	107.1	107.5	102.9	94.1	112.6
35.0	91.3	99.6	104.0	107.3	108.2	103.8	95.2	113.0
40.0	89.2	97.6	104.4	107.5	109.2	103.7	95.7	112.7
45.0	87.7	95.4	102.7	106.8	107.9	103.3	94.7	112.0
50.0	85.3	93.0	100.1	104.7	106.7	102.9	97.2	110.5
55.0	83.2	90.6	97.4	101.9	104.5	102.3	97.8	108.7
60.0	82.5	88.9	94.8	99.0	101.3	100.2	97.0	106.1
65.0	81.1	87.3	92.9	96.3	99.2	98.7	96.1	104.3
70.0	81.1	86.5	91.5	94.7	97.0	96.7	95.5	102.6
75.0	80.6	85.8	90.7	93.7	95.6	95.1	94.2	101.3
80.0	80.9	85.1	89.7	92.8	94.3	93.6	93.0	100.1
85.0	79.8	84.6	89.4	91.8	93.4	92.7	92.8	99.2
90.0	78.9	84.1	88.5	91.1	92.5	92.3	91.8	98.5
95.0	78.6	83.2	87.6	90.3	91.5	92.0	90.8	97.7
100.0	77.9	82.7	87.3	89.8	91.2	91.5	89.5	97.3
105.0	77.6	82.1	86.5	88.9	90.5	91.0	89.0	96.6
110.0	76.4	81.4	86.0	88.5	89.9	90.1	88.5	96.0
115.0	76.0	80.9	85.3	87.6	89.1	90.0	87.9	95.5

MODEL THRUST = 28.996 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	19.0	OCTAVE 38.1	BAND 76.2	SOUND 152.3	PRESSURE 304.6	LEVELS 609.2	1199.4	2398.9	4759.7	9519.4	19038.8
95.4	81.1(80.6)	80.2	69.01	64.56	75.43	75.00	73.41	66.62	53.57	37.06	7.11	-45.00	-131.49
85.7	86.5(87.9)	86.6	70.11	77.81	80.84	81.22	80.74	72.49	60.27	47.05	23.65	-17.18	-83.07
69.3	91.2(90.4)	89.1	71.95	79.91	83.68	83.42	82.70	74.85	64.23	52.96	33.65	-.17	-54.04
00.0	94.6(93.7)	91.5	72.43	80.27	84.99	86.28	84.23	80.25	68.43	58.44	41.48	12.60	-33.41
15.2	96.7(95.6)	93.0	71.87	80.19	86.56	87.49	88.17	82.60	71.38	62.28	47.12	21.56	-18.96
33.6	97.8(96.5)	93.8	70.75	79.14	85.95	88.95	89.27	83.68	73.31	64.88	51.02	27.89	-8.57
21.3	98.5(96.9)	93.9	70.13	77.80	85.10	88.07	89.77	84.29	75.50	67.56	54.69	33.39	-.03
58.1	98.2(96.4)	93.1	68.36	76.06	83.18	87.08	89.31	84.71	76.93	69.37	57.26	37.37	6.29
31.2	97.4(95.2)	91.7	66.93	74.25	81.07	85.47	87.73	84.72	78.41	71.14	59.92	40.83	11.57
32.1	95.6(93.0)	89.6	66.63	73.63	78.97	83.09	85.88	83.23	78.19	71.15	60.18	42.18	14.32
55.1	94.4(91.5)	88.1	65.68	71.42	77.18	80.77	83.36	82.15	77.89	71.04	60.34	43.98	16.33
96.3	93.3(90.1)	86.8	66.00	71.35	76.33	78.44	81.55	80.49	77.71	71.00	60.57	43.80	17.91
52.9	92.3(89.0)	85.8	65.74	70.87	75.70	78.46	80.37	79.21	76.70	70.08	59.86	43.46	18.20
23.1	91.3(87.8)	84.8	66.16	70.42	74.91	77.96	79.26	77.86	75.67	69.12	59.04	42.90	18.09
05.7	90.5(87.0)	84.0	65.20	70.02	74.80	77.69	78.38	77.10	74.81	68.31	58.30	42.32	17.72
00.6	89.7(86.4)	83.3	64.35	69.53	73.90	76.38	77.56	76.68	73.88	67.38	57.41	41.47	16.96
05.7	88.9(85.7)	82.6	64.00	68.84	72.97	75.54	76.57	76.35	72.88	66.37	56.37	40.39	15.79
73.1	88.2(85.1)	81.9	63.24	68.03	72.57	74.95	76.07	75.74	72.15	65.60	55.52	39.38	14.56
52.9	87.4(84.3)	81.1	62.71	67.20	71.94	73.94	75.22	75.12	71.45	64.83	54.61	38.21	12.95
96.3	86.6(83.3)	80.2	61.31	66.24	70.42	73.25	74.64	73.46	70.43	63.91	53.49	36.72	10.43
55.1	85.9(82.5)	79.3	60.58	65.42	69.42	72.14	73.31	73.47	69.48	62.82	52.13	34.85	8.12

RUN NUMBER	= 163.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= 533.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 9.456
VELOCITY RATIO	= .440
PRIMARY VELOCITY (FT/SEC)	= 1590.001
MASS FLOW RATIO	= 5.094
PRIMARY MASS FLOW (LB/SEC)	= .267
THRUST (LBS)	= 56.829
ENVIRONMENTAL TEMPERATURE (R)	= 534.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	= 33.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .084
INSTRUMENTATION NOISE FLOOR (DB)	= 68.547

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.12404E+01	140.5
500	2.55317E-01	124.1
1000	1.29966E+00	131.1
2000	3.16976E+00	135.0
4000	2.84160E+00	134.5
8000	2.16185E+00	133.3
16000	1.03971E+00	130.2
31500	4.72484E-01	126.7

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	163.0
20000	166.0
40000	169.0
80000	172.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	102.9	107.6	108.2	103.8	97.4	91.7	87.3	112.4
20.0	103.5	110.0	111.3	108.0	103.1	95.4	89.8	115.4
25.0	103.0	110.2	112.5	109.3	104.7	97.4	92.3	116.3
30.0	101.6	109.0	112.9	110.2	106.2	99.9	96.2	116.5
35.0	99.5	108.1	112.4	110.7	107.6	102.3	98.7	116.5
40.0	97.2	105.4	111.1	110.9	108.5	103.5	98.0	115.9
45.0	95.2	103.3	108.9	110.0	108.9	104.4	94.6	115.0
50.0	92.1	99.7	106.2	108.5	109.5	104.5	99.6	113.6
55.0	89.0	97.2	103.3	105.9	106.8	103.9	99.5	111.7
60.0	88.9	95.4	101.3	104.0	105.1	103.2	99.7	110.2
65.0	88.3	94.3	99.3	102.2	103.6	101.9	99.1	108.7
70.0	88.6	93.7	98.5	101.4	102.6	100.8	98.4	107.8
75.0	88.0	93.4	97.9	100.2	100.4	99.5	97.9	106.7
80.0	87.5	92.4	96.9	99.5	100.1	98.7	97.6	106.0
85.0	87.2	91.5	96.3	98.7	99.4	98.1	97.1	105.3
90.0	86.4	91.3	95.6	97.9	98.8	97.8	96.3	104.7
95.0	85.9	90.4	95.3	97.4	98.2	97.3	95.7	104.1
100.0	85.5	90.3	94.8	96.9	97.5	97.4	95.3	103.7
105.0	84.8	89.5	94.4	96.2	96.9	97.1	94.7	103.3
110.0	84.1	88.9	93.4	95.8	96.8	97.0	94.4	102.9
115.0	83.1	88.3	93.0	95.3	96.5	97.0	94.3	102.7

MODEL THRUST = 56.829 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	26.7	OCTAVE 53.3	BAND 106.6	SOUND 213.2	PRESSURE 426.4	LEVELS 852.9	1679.1	3358.2	6663.2	13326.3	26652.6
795.6	81.2(81.1)	82.9	73.66	78.32	78.76	73.72	65.86	56.22	42.93	20.67	-19.01	-88.82	-192.20
385.7	87.9(87.7)	88.2	76.70	83.09	84.31	80.62	74.53	63.82	51.47	33.90	3.14	-48.91	-124.38
549.3	91.5(91.1)	91.0	77.98	85.17	87.42	83.81	78.29	68.63	58.05	43.25	17.79	-24.98	-98.60
880.0	94.1(93.6)	92.7	78.06	85.49	89.24	86.24	81.49	73.11	62.79	48.82	27.83	-8.72	-84.71
815.2	96.2(95.5)	93.7	77.20	85.77	89.04	87.98	84.24	77.13	67.52	55.83	36.28	4.83	-65.16
333.6	97.6(96.7)	94.1	75.86	84.65	89.04	89.28	86.25	79.61	70.57	59.82	42.05	12.95	-31.27
121.3	98.3(97.3)	93.9	74.64	82.80	88.30	89.17	87.52	81.57	72.59	62.54	46.11	19.39	-21.08
958.1	98.5(97.3)	93.1	72.27	79.80	86.30	88.41	87.87	82.61	74.65	65.14	49.75	24.85	-12.76
931.2	97.7(96.3)	91.7	70.55	77.95	84.02	86.39	86.84	82.72	75.49	66.41	51.82	28.36	-7.01
732.1	97.1(95.4)	90.6	70.10	76.68	82.46	85.02	85.64	82.55	76.44	67.69	53.72	31.35	-2.24
555.1	96.2(94.4)	89.4	69.92	75.96	80.90	83.60	84.46	81.67	76.41	67.91	54.43	32.92	.49
596.3	95.7(93.8)	88.9	70.53	75.62	80.43	83.14	83.68	81.06	76.20	67.90	54.79	33.94	2.74
552.9	94.9(92.9)	88.0	70.17	75.60	79.99	82.19	82.68	80.00	74.07	67.71	55.08	34.71	4.28
523.1	94.5(92.4)	87.5	69.86	74.75	79.16	81.65	81.87	79.47	75.98	67.92	55.28	35.24	5.34
505.7	94.1(91.9)	86.9	69.62	73.91	78.71	80.93	81.22	78.93	75.59	67.59	55.06	35.22	5.62
500.0	93.4(91.3)	86.3	68.95	73.43	78.09	80.17	80.46	78.69	74.88	66.89	54.40	34.62	5.13
505.7	92.8(90.6)	85.7	68.36	72.86	77.66	79.42	80.06	78.14	74.21	66.20	53.67	33.83	4.24
523.1	92.3(90.1)	85.1	67.84	72.44	77.15	78.71	79.24	78.10	73.73	65.67	53.03	33.00	3.09
552.8	91.6(89.3)	84.5	67.03	71.84	76.56	78.21	78.53	77.47	72.79	64.63	51.80	31.44	1.31
596.3	90.7(88.7)	83.9	66.09	70.47	75.29	77.45	78.13	77.23	72.20	63.89	50.79	29.96	-1.24
655.1	90.1(88.0)	83.2	64.75	69.94	74.57	76.72	77.50	76.85	71.60	63.10	49.63	28.12	-4.12

RUN NUMBER	
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 164.00 (812.00)
PRIMARY TEMPERATURE (R)	= 0.00
SECONDARY TEMPERATURE (R)	= 910.000
PRIMARY PRESSURE RATIO	= 540.000
AREA RATIO	= 2.500
VELOCITY RATIO	= 9.700
PRIMARY VELOCITY (FT/SEC)	= .484
MASS FLOW RATIO	= 1290.001
PRIMARY MASS FLOW (LB/SEC)	= 5.424
THRUST (LBS)	= .247
ENVIRONMENTAL TEMPERATURE (R)	= 41.996
ENVIRONMENTAL PRESSURE (IN.HG)	= 532.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.700
CALIBRATION FACTOR (DB TO DB/CD CM)	= 31.000
INSTRUMENTATION NOISE FLOOR (DB)	= .063
	= 65.500

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.31637E+00	138.0
500	5.17181E-02	117.1
1000	2.28546E-01	123.6
2000	6.65306E-01	128.2
4000	1.29773E+00	131.1
8000	2.06985E+00	133.2
16000	1.41576E+00	131.5
31500	5.87475E-01	127.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	161.8
20000	164.8
40000	167.8
80000	170.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	96.4	101.0	101.4	100.6	102.0	101.3	95.5	108.7
20.0	95.8	102.0	103.6	103.9	105.5	104.5	98.2	111.4
25.0	95.0	101.6	104.5	105.1	107.1	105.0	99.6	112.4
30.0	93.8	100.9	105.1	106.3	107.9	105.9	100.3	113.0
35.0	92.4	99.6	105.3	107.4	108.4	106.1	100.8	113.5
40.0	90.1	97.0	104.0	107.4	108.4	105.9	101.4	113.2
45.0	88.5	95.8	102.8	107.4	109.3	106.6	101.9	113.5
50.0	86.8	93.8	100.5	105.5	108.3	106.3	102.1	112.4
55.0	84.8	92.1	98.5	103.2	106.5	105.2	101.8	110.9
60.0	84.1	90.8	96.6	100.8	103.9	103.5	100.8	108.9
65.0	83.8	89.6	95.3	98.8	102.0	101.7	99.5	107.1
70.0	83.2	88.9	94.0	97.3	100.4	99.9	97.4	105.5
75.0	82.9	88.1	93.1	96.5	99.1	98.7	96.6	104.4
80.0	82.5	87.1	92.1	95.3	97.5	97.0	95.5	103.0
85.0	81.8	86.9	91.6	94.4	96.3	96.0	94.6	102.0
90.0	81.6	86.3	90.9	93.7	95.6	95.1	93.7	101.2
95.0	80.9	85.8	90.1	93.1	94.7	94.3	92.9	100.5
100.0	80.6	85.0	89.7	92.1	93.9	93.3	92.2	99.7
105.0	79.5	84.3	88.9	91.5	93.2	92.6	91.5	99.0
110.0	77.9	83.7	88.4	90.8	92.4	91.9	90.7	98.2
115.0	78.3	83.0	87.9	90.3	91.8	91.3	90.3	97.7

MODEL THRUST = 41.996 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE BAND SOUND PRESSURE LEVELS								
			22.9	45.8	91.6	183.3	366.6	733.2	1443.4	2886.9	5727.9	11455.9	22911.7
95.6	81.6(81.1)	79.5	68.42	73.04	73.29	72.57	72.18	68.25	55.09	35.63	.68	-60.25	-156.76
85.7	88.1(87.5)	84.6	70.32	76.49	77.97	77.91	78.56	75.12	63.19	47.73	20.50	-26.28	-100.84
49.3	92.6(91.1)	87.6	71.32	77.89	80.67	81.03	82.26	79.02	69.30	55.22	32.60	-5.83	-64.09
80.0	94.6(93.6)	89.8	71.64	78.65	82.79	83.74	84.77	81.08	71.64	60.12	40.54	7.59	-43.41
15.2	96.6(95.4)	91.5	71.38	78.62	84.16	86.11	86.58	82.75	74.18	63.75	46.38	17.20	-28.00
33.6	97.8(96.4)	92.3	70.05	77.79	83.92	87.15	87.66	83.83	76.34	66.72	50.82	24.53	-16.12
21.3	99.3(97.8)	93.5	69.27	76.62	83.49	87.98	89.45	85.56	78.13	69.10	54.38	30.20	-7.02
58.1	99.3(97.5)	93.0	68.26	75.32	81.96	86.75	89.19	86.07	79.32	70.76	56.94	34.39	-.20
31.2	98.6(96.6)	92.0	66.87	74.14	80.52	85.09	88.02	85.72	79.92	71.72	58.48	37.32	4.78
32.1	97.2(94.9)	90.4	66.70	73.38	79.15	83.14	85.87	84.59	79.63	71.71	59.14	38.85	7.90
55.1	96.0(93.6)	89.1	66.75	72.52	78.20	81.56	84.41	83.25	78.88	71.18	59.03	39.51	9.41
86.3	94.7(92.3)	87.8	66.52	72.13	77.25	80.41	83.15	81.79	77.23	69.70	57.88	38.94	10.19
52.9	93.9(91.4)	87.0	66.37	71.60	76.54	79.87	82.09	80.85	76.79	69.38	57.79	39.29	11.24
23.1	92.7(90.1)	85.8	66.13	70.81	75.71	78.86	80.71	79.31	75.86	68.53	57.12	38.91	11.34
05.7	91.9(89.2)	85.0	65.59	70.65	75.31	78.02	79.64	78.50	75.10	67.82	56.50	38.47	11.14
00.0	91.1(88.4)	84.2	65.40	70.14	74.62	77.31	78.90	77.57	74.24	66.98	55.69	37.72	10.52
05.7	90.2(87.6)	83.4	64.65	69.53	73.81	76.69	78.02	76.74	73.40	66.12	54.88	36.77	9.47
23.1	89.3(86.7)	82.5	64.30	68.84	73.28	75.85	77.05	75.88	72.61	65.28	53.66	35.66	8.00
52.9	88.4(85.8)	81.6	63.64	67.79	72.34	74.84	76.22	74.79	71.67	64.26	52.68	34.18	6.12
86.3	87.3(84.7)	80.6	61.22	67.00	71.61	73.92	75.18	73.75	70.57	63.03	51.21	32.28	3.53
55.1	86.3(83.8)	79.7	61.29	65.91	70.79	73.15	74.29	72.77	69.72	62.02	49.87	30.35	.45

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 165.000
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 518.000
PRIMARY PRESSURE RATIO	= 542.640
AREA RATIO	= 2.500
VELOCITY RATIO	= 9.748
PRIMARY VELOCITY (FT/SEC)	= .656
MASS FLOW RATIO	= 1998.001
PRIMARY MASS FLOW (LB/SEC)	= 10.274
THRUST (LBS)	= .264
ENVIRONMENTAL TEMPERATURE (R)	= 102.095
ENVIRONMENTAL PRESSURE (IN.HG)	= 531.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.700
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 33.000
INSTRUMENTATION NOISE FLOOR (DB)	= .100
	= 69.579

JSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	1.65712E+01	142.2	THRUST	POWER LEVEL(DB)
			10000	162.1
500	4.27780E-01	126.3	20000	165.1
1000	2.09917E+00	133.2	40000	168.1
2000	3.41258E+00	135.3	80000	171.1
4000	3.51324E+00	135.5		
8000	3.72473E+00	135.7		
16000	2.35132E+00	133.7		
31500	1.04214E+00	130.2		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE	OCTAVE BAND SOUND PRESSURE LEVELS							OVER
(DEG)	500	1000	2000	4000	8000	16000	31500	ALL
15.0	92.2	111.1	109.5	104.9	102.7	100.5	96.8	114.5
20.0	106.5	112.1	111.1	107.2	105.3	102.7	97.2	116.5
25.0	105.1	111.9	111.9	108.6	107.0	104.0	99.6	117.0
30.0	103.5	110.7	112.1	109.7	108.0	105.5	101.4	117.1
35.0	101.9	109.2	111.9	110.4	109.8	106.5	102.0	117.3
40.0	99.4	106.8	110.5	110.9	110.5	107.7	103.1	116.9
45.0	97.2	104.8	109.3	110.9	110.9	107.8	103.0	116.5
50.0	95.2	102.3	107.1	109.3	110.1	107.6	103.3	115.3
55.0	93.9	100.5	105.5	107.7	109.0	106.8	102.7	114.1
60.0	93.6	100.2	104.3	106.5	107.9	106.2	103.1	113.2
65.0	93.0	98.7	103.2	105.1	106.4	104.7	101.7	111.8
70.0	92.8	98.0	101.7	104.2	105.2	103.8	101.5	110.8
75.0	92.3	96.8	101.0	102.9	104.2	102.9	100.5	109.8
80.0	92.0	96.4	100.4	102.0	103.1	102.1	99.9	109.0
85.0	91.1	95.7	99.3	101.3	102.2	101.6	99.5	108.3
90.0	90.5	95.3	98.9	100.7	101.3	101.0	98.8	107.6
95.0	90.0	94.6	98.3	100.0	101.0	100.6	98.2	107.1
100.0	89.6	94.2	97.8	99.5	100.7	100.7	98.0	106.8
105.0	89.0	93.5	97.3	98.9	100.3	100.6	97.7	106.5
110.0	87.8	92.9	97.0	98.6	100.3	100.8	97.3	106.3
115.0	87.4	92.2	96.5	98.6	100.6	100.6	97.0	106.2

MODEL THRUST = 102.095 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS									
			35.7	71.4	142.9	285.8	571.6	1143.2	2250.6	4501.2	8930.9	17861.9	35723.7
85.6	81.6(81.5)	82.0	60.36	79.18	77.34	71.90	67.38	59.47	42.55	13.79	-36.27	-118.92	-242.14
85.7	87.1(86.9)	86.5	77.16	82.68	81.42	76.88	73.28	66.29	51.43	28.94	-9.48	-72.95	-166.92
89.3	90.5(90.2)	88.8	77.54	84.78	84.15	80.26	77.30	70.84	58.84	40.07	8.25	-43.53	-120.15
90.0	93.3(92.9)	90.2	77.46	84.62	85.81	82.95	80.13	74.64	64.14	47.81	20.45	-23.78	-89.01
85.2	95.6(95.1)	91.5	76.97	84.32	86.86	85.38	83.27	77.49	67.37	52.75	28.51	-10.43	-67.47
83.6	96.8(96.2)	92.0	75.54	82.91	86.45	86.56	85.27	80.07	70.50	57.13	35.18	.11	-51.29
91.3	97.8(97.1)	92.4	74.16	81.70	86.14	87.40	86.59	81.34	72.02	59.59	39.37	7.21	-39.79
88.1	97.8(96.9)	91.7	72.85	79.92	84.58	86.47	86.54	82.14	73.63	61.93	43.03	13.12	-30.50
91.2	97.5(96.5)	91.1	72.13	78.71	83.59	85.56	86.07	82.12	74.12	62.98	45.11	16.95	-24.03
92.1	97.3(96.2)	90.6	72.35	78.84	82.87	84.84	85.51	82.13	75.29	64.59	47.53	20.72	-18.20
95.1	96.5(95.3)	89.7	72.68	77.76	82.16	83.87	84.51	81.20	74.58	64.13	47.79	22.84	-15.29
96.3	96.0(94.7)	89.0	72.20	77.35	81.00	83.26	83.68	80.71	75.00	64.90	48.94	24.00	-12.11
92.9	95.3(94.0)	88.2	71.43	76.40	80.58	82.21	82.87	80.11	74.36	64.46	48.85	24.50	-10.71
93.1	94.8(93.5)	87.6	71.77	76.16	80.68	81.46	82.01	79.49	73.99	64.22	48.86	24.92	-9.67
95.7	94.4(93.0)	86.9	71.06	75.61	79.13	80.98	81.23	79.07	73.78	64.09	48.96	25.17	-9.97
90.0	93.8(92.4)	86.3	70.47	75.28	78.76	80.34	80.33	78.59	73.19	63.52	48.34	24.73	-9.38
95.7	93.2(91.8)	85.8	69.90	74.68	78.12	79.41	80.01	78.15	72.53	62.46	47.41	23.92	-10.11
93.1	92.8(91.4)	85.3	69.38	74.03	77.56	78.85	79.55	77.68	72.04	62.32	46.95	23.82	-11.47
92.9	92.1(90.8)	84.7	68.61	73.11	76.85	78.24	79.00	77.75	71.53	61.63	46.02	21.68	-13.43
96.3	91.5(90.1)	84.3	67.21	72.27	76.32	77.71	78.73	77.67	70.74	60.65	44.68	19.75	-16.36
95.1	90.8(89.5)	83.8	66.54	71.30	75.47	77.12	78.69	77.04	69.90	59.55	43.11	17.36	-19.37

RUN NUMBER	= 166.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= NONE
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 1817.254
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= .320
THRUST (LBS)	= 18.060
ENVIRONMENTAL TEMPERATURE (R)	= 546.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 23.000
CALIBRATION FACTOR (HV TO DY/SQ CM)	= .142
INSTRUMENTATION NOISE FLOOR (DB)	= 72.631

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.73721E+01	145.7
500	2.76201E-02	114.4
1000	2.48839E-01	124.0
2000	1.56156E+00	131.9
4000	6.31994E+00	138.0
8000	1.34770E+01	141.3
16000	1.04990E+01	140.2
31500	5.23822E+00	137.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	173.2
20000	176.2
40000	179.2
80000	182.2

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	92.5	100.0	103.0	105.5	107.0	104.5	101.5	112.0
20.0	92.5	102.0	107.0	111.0	114.5	114.5	111.5	119.5
25.0	92.5	102.5	108.5	113.0	116.5	116.0	112.0	121.1
30.0	91.5	101.5	109.5	114.5	117.5	116.5	113.0	122.0
35.0	89.9	100.5	109.5	115.0	118.0	117.0	113.5	122.5
40.0	89.1	99.0	108.5	115.0	118.0	117.0	113.5	122.4
45.0	86.6	97.0	107.5	114.5	117.5	115.0	111.5	121.3
50.0	84.7	94.5	104.5	112.5	115.0	113.5	109.5	119.6
55.0	81.7	92.5	101.5	110.0	114.0	112.0	108.5	117.8
60.0	80.6	89.6	98.5	106.0	110.0	110.0	108.0	114.9
65.0	80.0	87.9	96.1	102.5	106.5	108.0	106.5	112.4
70.0	79.3	87.1	94.0	100.0	105.0	106.0	105.5	110.9
75.0	79.3	87.1	93.5	98.5	103.5	105.0	104.5	109.6
80.0	79.3	87.1	93.0	98.0	102.0	104.0	103.5	108.6
85.0	79.3	86.5	92.5	97.0	101.0	103.0	102.6	107.6
90.0	78.6	85.9	92.0	96.0	100.0	102.0	101.6	106.7
95.0	78.6	85.5	91.0	95.6	99.5	101.2	100.8	106.0
100.0	77.9	85.2	90.6	95.0	99.0	100.6	100.2	105.4
105.0	77.9	84.0	89.4	94.0	98.5	100.0	99.6	104.8
110.0	76.1	83.1	88.9	93.5	97.5	99.4	99.1	104.1
115.0	76.1	82.7	88.4	93.0	97.5	99.0	98.6	103.8

MODEL THRUST = 18.060 FULL SCALE THRUST = 20000.000

L.	PNDB.		OASPL	15.0	OCTAVE 30.0	BAND 60.1	SOUND 120.2	PRESSURE 240.4	LEVELS 480.8	960.6	1893.1	3750.2	7512.4	15024.8
795.6	89.4	88.4	86.6	68.21	75.75	78.66	80.98	81.79	77.47	69.99	56.62	32.22	-11.83	-45.51
385.7	100.8	99.2	96.2	70.63	80.15	85.08	88.93	91.64	90.57	84.20	73.35	54.15	20.09	-36.40
549.3	104.8	103.0	100.0	72.47	82.50	88.44	92.81	95.91	94.30	87.58	76.23	62.15	33.99	-12.30
000.0	107.5	105.4	102.6	73.00	82.97	90.92	95.80	98.46	96.52	90.74	82.37	68.29	44.06	4.45
615.2	109.6	107.2	104.4	72.57	83.12	92.12	97.52	100.22	98.40	92.91	85.22	72.57	51.84	10.15
333.6	110.8	108.2	105.4	72.93	82.82	92.10	98.52	101.28	99.83	94.25	87.07	75.45	55.92	24.46
121.3	110.6	108.0	105.3	71.06	81.48	91.93	98.86	101.82	98.46	93.32	86.53	75.69	57.67	29.89
958.1	109.7	107.0	104.3	69.82	79.61	89.62	97.57	100.85	97.72	92.24	85.74	75.61	58.64	31.76
831.2	108.7	105.7	103.0	67.41	78.26	87.20	95.66	99.45	96.88	91.99	85.71	75.95	59.98	34.65
732.1	107.1	103.7	100.6	66.80	75.82	84.67	92.15	95.95	95.39	92.07	85.97	76.58	61.31	37.19
658.1	105.5	101.8	98.5	66.60	74.54	82.46	89.85	92.86	93.85	91.88	85.12	76.01	61.28	38.10
596.3	104.3	100.3	97.2	66.57	74.03	80.89	88.05	91.60	92.10	90.40	84.62	75.73	61.42	38.45
552.9	103.5	99.5	96.3	66.51	74.27	80.67	85.58	90.43	91.65	89.72	83.94	75.21	61.21	38.27
523.1	102.8	98.7	95.4	66.68	74.44	80.36	85.23	89.07	90.64	88.94	83.22	74.59	60.80	38.23
505.7	102.0	97.8	94.6	66.78	73.94	79.96	84.61	88.19	89.70	88.10	82.69	73.93	60.27	38.00
500.0	101.0	96.9	93.6	66.12	73.33	79.45	83.81	87.27	88.75	87.25	81.57	73.03	59.41	38.11
505.7	100.2	96.1	92.9	66.08	72.95	78.44	82.92	86.68	87.92	86.40	80.71	72.15	58.48	37.12
523.1	99.5	95.4	92.2	65.93	72.61	77.92	82.22	86.06	87.26	85.70	79.97	71.35	57.56	36.48
552.9	98.8	94.5	91.4	65.86	71.17	76.60	81.14	85.44	86.60	84.88	79.08	70.35	56.35	34.61
596.3	97.7	93.6	90.5	65.08	70.06	75.84	80.33	84.72	85.80	84.01	78.15	69.28	54.95	32.68
658.1	96.9	92.9	89.8	62.78	69.28	74.98	79.58	83.89	84.97	83.15	77.18	68.07	53.35	30.14

RUN NUMBER	= 167.00 (732.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 930.000
SECONDARY TEMPERATURE (R)	= 540.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .573
PRIMARY VELOCITY (FT/SEC)	= 1817.254
MASS FLOW RATIO	= 1.015
PRIMARY MASS FLOW (LB/SEC)	= .318
THRUST (LBS)	= 28.412
ENVIRONMENTAL TEMPERATURE (R)	= 542.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 30.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .199
INSTRUMENTATION NOISE FLOOR (DB)	= 75.578

TIC POWER AND SOUND POWER LEVEL FOR MODEL JET

REQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.35194E+01	147.3
500	8.39040E-02	119.2
1000	7.53804E-01	128.8
2000	4.95412E+00	136.9
4000	1.18965E+01	140.8
8000	1.85991E+01	142.7
16000	1.19316E+01	140.8
31500	5.30040E+00	137.2

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	172.8
20000	175.8
40000	178.8
80000	181.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.2	105.9	111.6	112.8	113.6	111.7	104.6	118.8
20.0	98.7	107.3	113.1	115.4	117.0	114.5	107.3	121.6
25.0	97.7	107.2	113.7	116.2	117.6	115.5	109.1	122.4
30.0	96.4	107.1	114.2	116.7	118.2	116.6	110.6	123.0
35.0	94.6	105.4	114.3	117.8	118.9	116.9	111.7	123.7
40.0	92.9	103.8	113.1	117.8	119.4	116.9	112.1	123.7
45.0	91.1	101.3	113.8	116.9	119.7	115.6	110.9	123.0
50.0	88.3	98.5	107.9	114.7	117.5	116.5	110.1	121.2
55.0	86.0	95.5	105.0	111.9	115.1	113.5	109.9	119.2
60.0	84.6	93.0	102.2	108.2	111.7	111.1	108.6	116.4
65.0	83.5	91.1	99.2	105.6	109.2	109.4	107.8	114.4
70.0	82.9	90.6	97.6	103.1	107.2	108.0	107.8	113.1
75.0	82.9	90.3	97.1	102.1	105.6	106.5	106.9	111.8
80.0	82.9	89.7	96.6	101.4	104.7	105.3	106.0	110.9
85.0	82.9	89.7	96.0	100.4	103.7	104.4	105.2	110.0
90.0	82.3	89.7	96.9	99.7	102.6	103.5	104.0	109.2
95.0	82.3	88.5	96.2	99.1	101.7	102.7	104.1	108.5
100.0	80.8	88.1	96.0	98.7	101.0	102.0	103.6	107.9
105.0	80.0	86.9	93.1	98.4	100.4	101.5	103.2	107.4
110.0	80.0	85.6	92.4	97.9	100.0	101.0	103.0	107.0
115.0	80.0	85.1	91.9	97.3	99.4	100.7	102.8	106.7

MODEL THRUST = 28.412 FULL SCAL THRUST = 20000.000

.	PNDB.	OASPL		OCTAVE 18.8	BAND 37.7	SOUND 75.4	PRESSURE 150.8	LEVELS 301.5	603.1	1187.3	2374.5	4711.4	9422.8	18845.5
.6	94.1(93.6)	91.3	71.93	79.67	84.89	96.10	86.00	81.58	60.62	52.26	22.57	-30.02	-115.56	
.7	100.4(99.6)	96.7	74.88	83.48	89.21	91.24	92.12	87.76	76.12	63.01	39.81	-.71	-88.17	
.3	103.6(102.5)	99.5	75.76	85.20	91.64	93.98	94.83	91.18	81.17	70.00	50.65	17.28	-36.27	
.0	106.2(104.8)	101.7	75.88	86.54	93.61	96.01	96.97	94.07	85.01	75.10	58.28	29.62	-16.11	
.8	108.4(106.8)	103.6	75.33	86.08	94.55	98.21	99.01	95.87	88.02	79.00	63.95	38.58	-1.67	
.6	109.8(108.0)	104.6	74.54	85.41	94.72	99.28	100.50	97.00	89.89	81.52	67.77	44.80	8.56	
.3	110.0(108.1)	104.9	73.63	83.82	96.29	99.28	100.73	96.68	89.84	81.95	69.18	48.05	14.82	
.1	109.4(107.3)	103.7	71.49	81.64	91.10	97.78	100.21	96.45	90.03	82.52	70.50	50.74	19.85	
.2	108.4(105.9)	102.3	69.80	79.23	88.76	95.52	98.49	96.04	90.44	83.42	71.99	53.32	24.24	
.1	106.3(103.6)	99.8	68.87	77.22	86.39	92.99	95.51	94.24	89.99	83.01	73.02	54.28	26.53	
.1	105.1(101.9)	98.2	68.18	75.78	83.85	90.14	93.50	92.92	89.77	83.91	73.29	55.13	28.45	
.3	104.6(100.9)	97.1	67.89	75.57	82.56	89.33	91.80	91.92	90.08	83.48	73.05	56.39	30.69	
.9	104.0(100.0)	96.2	68.13	75.53	82.24	87.19	90.48	90.70	89.51	82.93	72.78	56.50	31.38	
.1	103.4(99.3)	95.4	68.30	75.12	81.96	86.69	89.69	89.68	88.83	82.32	72.31	56.27	31.59	
.7	102.7(98.5)	94.6	68.40	75.22	81.43	85.73	88.78	88.93	88.12	81.65	71.71	55.83	31.38	
.0	102.0(97.8)	93.8	67.79	74.63	80.62	85.09	87.79	88.02	87.58	81.12	71.21	55.38	31.02	
.7	101.4(97.2)	93.1	67.76	73.93	79.61	84.61	86.86	87.21	87.09	80.62	70.69	54.81	30.36	
.1	100.6(96.5)	92.4	66.21	73.47	79.31	83.93	86.01	86.15	86.40	79.90	69.88	53.85	29.18	
.9	99.9(95.8)	91.7	65.31	72.15	78.27	83.40	85.23	85.66	85.79	79.21	69.04	52.77	27.66	
.3	99.2(95.1)	91.0	64.97	70.47	77.32	82.75	84.55	84.86	85.27	78.60	68.25	51.59	25.85	
.1	98.4(94.4)	90.3	64.66	69.76	76.69	81.79	83.85	84.29	84.69	77.84	67.22	50.08	23.49	

RUN NUMBER	= 169.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= 536.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .416
PRIMARY VELOCITY (FT/SEC)	= 1817.254
MASS FLOW RATIO	= 1.378
PRIMARY MASS FLOW (LB/SEC)	= .320
THRUST (LBS)	= 28.420
ENVIRONMENTAL TEMPERATURE (R)	= 542.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 30.000
CALIBRATION FACTOR (MV I.) DY/SQ CM)	= .178
INSTRUMENTATION NOISE FLOOR (DB)	= 74.588

JSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.49023E+01	146.5
500	5.25743E-02	117.2
1000	4.74280E-01	126.8
2000	2.77606E+00	134.4
4000	7.85043E+00	138.9
8000	1.46033E+01	141.6
16000	1.26895E+01	141.0
31500	6.47612E+00	138.1

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	172.0
20000	175.0
40000	178.0
80000	181.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	96.4	106.4	109.3	111.8	115.6	114.8	108.9	120.1
20.0	96.5	105.8	111.2	113.7	117.3	117.1	101.0	121.7
25.0	95.3	105.0	112.2	114.9	117.0	117.5	112.7	122.7
30.0	94.3	104.4	112.5	115.9	118.3	118.0	114.1	123.4
35.0	92.6	103.1	111.9	116.1	118.3	118.1	114.3	123.4
40.0	91.0	100.6	110.6	115.0	117.6	116.6	113.1	122.5
45.0	87.0	98.7	108.4	115.1	117.4	115.1	111.4	121.5
50.0	86.2	96.2	107.2	113.4	115.3	113.3	110.1	119.4
55.0	84.1	93.1	103.0	108.7	112.7	112.0	109.8	117.3
60.0	83.1	90.9	100.0	105.6	109.6	110.2	108.4	115.0
65.0	82.5	90.1	96.8	102.6	107.3	108.5	107.9	113.2
70.0	81.4	88.2	95.8	101.3	105.4	106.6	106.6	111.6
75.0	81.9	86.1	95.6	100.3	104.1	105.6	104.9	110.7
80.0	81.9	88.5	95.0	99.0	102.5	104.6	105.7	109.8
85.0	81.8	88.5	94.3	98.2	101.7	104.6	106.6	109.9
90.0	81.3	87.5	93.4	97.2	100.7	103.6	106.8	108.3
95.0	81.3	87.1	92.8	96.5	100.0	101.8	104.4	107.8
100.0	79.8	86.0	91.6	95.7	99.1	101.0	104.1	107.2
105.0	79.0	85.1	91.1	95.4	98.4	100.2	103.9	106.7
110.0	78.1	84.6	90.3	94.2	97.7	99.6	103.5	106.2
115.0	78.1	84.1	90.1	93.8	97.0	99.0	103.3	105.8

MODEL THRUST = 28.420 FULL SCALE THRUST = 20010.000

L.	PNDR.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 18.8	37.7	75.4	150.0	301.6	603.1	1174.9	2374.5	4712.8	9424.1	18848.2
95.4	95.8	95.2	92.0	70.16	80.13	82.93	85.09	87.99	84.60	72.97	58.62	26.92	-25.67
85.9	99.9	99.4	96.5	72.79	81.93	87.28	89.56	92.65	90.33	80.83	66.72	33.52	-7.81
49.3	104.1	102.8	99.3	73.29	83.00	90.12	92.42	96.95	93.12	84.79	73.61	44.26	28.89
00.0	106.8	105.1	101.6	73.76	83.84	91.93	95.13	97.13	95.52	88.51	78.60	51.78	33.11
15.9	108.4	106.9	103.0	73.31	83.78	92.57	96.56	98.41	97.04	90.98	81.55	54.50	41.13
33.4	108.8	106.6	103.2	72.72	82.31	92.03	97.61	98.77	96.71	90.80	82.42	60.47	49.71
21.9	108.9	106.7	103.2	70.14	81.10	90.85	97.60	99.41	96.14	90.30	82.41	59.66	49.49
58.1	107.8	105.4	101.8	69.64	79.34	88.32	95.64	98.06	95.15	89.08	82.67	70.65	58.69
31.2	106.7	103.8	100.2	67.89	76.98	86.72	92.37	96.66	94.59	90.60	83.27	71.83	63.18
37.1	105.3	102.1	98.4	67.35	75.13	84.19	89.71	93.49	93.28	90.10	83.10	72.19	64.37
85.1	104.2	100.7	96.9	67.19	74.19	81.39	87.68	91.55	92.01	88.70	82.97	72.35	65.19
96.1	103.1	99.6	95.6	66.90	74.10	80.71	86.19	89.45	91.68	88.90	82.23	71.87	65.21
82.0	102.9	98.8	96.9	67.14	74.65	80.46	85.66	88.90	89.77	87.62	81.96	71.79	65.50
23.1	102.8	98.3	96.2	67.31	73.82	80.36	84.26	87.56	88.82	87.47	81.96	71.95	65.91
65.7	103.2	98.8	96.4	67.41	73.92	79.76	83.46	86.80	88.03	87.50	83.03	73.10	67.21
00.0	101.6	97.2	92.9	66.80	73.97	78.46	82.96	86.40	87.11	87.70	81.57	71.42	64.59
05.7	101.8	96.6	92.2	66.76	72.68	77.99	81.99	84.12	86.91	87.34	80.89	70.94	63.97
73.1	101.4	95.9	91.5	65.21	71.32	76.26	81.22	83.06	85.1	86.61	80.61	70.39	63.36
92.9	99.9	95.4	90.8	66.22	70.39	76.11	81.62	83.24	84.14	85.61	79.95	69.80	63.91
96.3	99.8	94.5	90.0	63.68	69.22	74.27	79.11	81.65	83.45	84.88	79.21	68.95	62.19
85.1	98.1	93.8	89.2	62.75	68.77	74.17	78.19	81.18	82.54	84.21	78.39	67.77	60.81

RUN NUMBER	= 170.00 (714.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= 536.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .571
PRIMARY VELOCITY (FT/SEC)	= 1817.254
MASS FLOW RATIO	= 1.964
PRIMARY MASS FLOW (LB/SEC)	= .320
THRUST (LBS)	= 38.296
ENVIRONMENTAL TEMPERATURE (R)	= 539.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 31.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .199
INSTRUMENTATION NOISE FLOOR (DB)	= 75.578

JSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.24979E+01	148.0
500	1.61496E+01	122.1
1000	1.37769E+00	131.4
2000	7.16783E+00	138.6
4000	1.51199E+01	141.8
8000	1.85142E+01	142.7
16000	1.20229E+01	140.8
31500	8.12997E+00	139.1

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	172.1
20000	175.1
40000	178.1
80000	181.2

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	101.7	109.9	112.8	113.6	113.2	105.8	104.1	119.3
20.0	101.2	110.2	115.0	116.2	116.3	113.1	107.1	121.8
25.0	101.0	110.5	116.4	118.1	118.2	115.2	109.7	123.6
30.0	99.0	109.3	116.7	118.8	118.7	116.1	111.0	124.1
35.0	97.7	107.6	116.3	118.9	118.9	116.5	112.4	124.2
40.0	94.8	106.1	114.9	118.6	119.0	116.4	112.9	124.1
45.0	92.5	103.5	112.7	117.9	118.7	116.3	111.8	123.7
50.0	90.6	100.6	109.6	116.1	117.3	114.6	111.4	121.9
55.0	88.3	97.1	105.9	111.4	114.3	113.0	111.1	118.9
60.0	86.8	95.0	102.8	108.1	111.6	111.5	110.8	116.9
65.0	86.8	94.1	100.6	105.2	109.2	110.0	110.2	115.2
70.0	86.8	93.6	99.5	103.9	107.5	109.2	109.4	114.3
75.0	85.6	93.4	98.9	102.9	106.1	108.0	108.5	113.5
80.0	86.8	93.2	98.3	102.3	105.5	107.1	107.0	112.8
85.0	86.0	92.5	97.5	101.0	104.4	106.4	106.2	112.0
90.0	84.1	91.6	96.9	100.7	103.7	105.9	107.9	111.6
95.0	85.6	90.9	96.3	100.4	102.9	105.3	107.7	111.1
100.0	84.6	90.6	95.8	100.0	102.3	104.6	107.4	110.7
105.0	84.1	90.7	95.1	99.6	101.8	104.0	106.8	110.2
110.0	82.9	88.8	94.6	99.0	101.3	104.3	107.0	110.1
115.0	82.3	87.7	93.8	98.3	101.0	104.0	107.0	109.9

MODEL THRUST = 38.296 FULL SCALE THRUST = 20000.000

A	PWL	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 31.5	63.0	125.0	250.0	500.1	1000.1	2000.0	4000.0	8000.0	16000.0	31500.0	21479.1
5.0	93.1(92.7)	90.7	76.19	81.75	85.07	85.91	84.00	77.56	66.80	46.12	12.63	-68.60	-160.78	
5.7	99.1(98.5)	95.7	76.10	85.10	89.76	90.66	87.60	80.47	73.76	58.19	31.96	-17.28	-85.84	
6.3	103.4(102.6)	99.6	77.71	87.20	93.85	94.66	93.86	89.01	79.20	68.60	44.79	7.61	-51.89	
7.0	105.9(104.8)	101.5	77.14	87.66	96.77	96.71	96.02	91.79	83.10	71.99	53.10	21.70	-28.83	
7.5	107.7(106.3)	102.8	77.11	88.45	888.60	97.90	97.44	93.26	86.66	76.37	59.51	31.33	-12.87	
8.0	109.0(107.4)	103.8	75.14	88.63	98.29	98.78	98.30	94.86	87.96	79.20	63.84	38.37	-1.22	
8.3	109.2(107.5)	103.8	73.67	88.67	98.46	98.96	98.50	94.96	88.13	79.99	65.79	42.32	8.08	
8.7	108.7(106.8)	102.5	72.53	85.30	97.22	98.46	98.06	94.86	87.36	81.04	67.68	45.88	12.10	
9.2	107.1(104.8)	100.4	70.70	79.62	88.31	93.73	96.26	94.01	87.82	81.86	69.16	44.52	10.42	
9.8	105.9(103.2)	98.4	69.91	77.94	85.70	90.40	94.05	93.07	87.38	82.57	70.39	46.11	28.59	
10.5	105.2(102.3)	97.3	70.01	77.69	83.98	89.44	93.07	91.98	86.72	82.72	70.85	47.01	23.00	
11.3	105.0(101.9)	96.7	70.52	77.23	83.64	87.78	90.15	91.38	86.27	82.41	71.44	47.87	25.06	
12.0	104.7(101.6)	96.1	70.36	77.07	83.25	86.95	89.04	90.61	85.81	82.01	71.76	48.07	27.18	
12.7	104.6(101.5)	95.9	70.43	77.26	83.31	86.93	88.96	90.45	85.61	81.91	71.74	48.07	27.18	
13.7	103.7(100.5)	94.9	70.26	76.71	81.83	85.03	87.15	89.55	84.91	81.23	71.24	47.75	27.15	
14.8	103.4(100.1)	94.5	69.39	76.83	81.78	84.79	86.93	89.36	84.85	81.20	71.08	47.68	27.09	
16.2	103.0(99.7)	94.1	69.28	75.63	81.55	84.53	86.66	89.10	84.71	81.21	71.13	47.64	27.02	
17.8	102.5(99.2)	93.6	69.19	75.49	81.39	84.36	86.49	88.93	84.61	81.16	71.15	47.64	27.00	
19.6	102.1(98.8)	93.2	69.09	75.36	81.24	84.20	86.33	88.77	84.51	81.10	71.16	47.63	26.98	
21.6	101.7(98.4)	92.8	68.99	75.24	81.10	84.05	86.17	88.61	84.41	81.04	71.16	47.62	26.96	
23.8	101.3(98.0)	92.4	68.88	75.11	80.96	83.90	86.01	88.45	84.31	80.98	71.16	47.61	26.94	
26.2	100.9(97.6)	92.0	68.78	74.98	80.82	83.75	85.85	88.29	84.21	80.92	71.16	47.60	26.92	
28.9	100.5(97.2)	91.6	68.68	74.86	80.68	83.60	85.69	88.13	84.11	80.86	71.16	47.59	26.90	

RUN NUMBER	= 171.000
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 4.850
VELOCITY RATIO	= .422
PRIMARY VELOCITY (FT/SEC)	= 1417.254
MASS FLOW RATIO	= 2.999
PRIMARY MASS FLOW (LB/SEC)	= .319
THRUST (LBS)	= 40.698
ENVIRONMENTAL TEMPERATURE (R)	= 535.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.908
ENVIRONMENTAL HUMIDITY (PER CENT)	= 18.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .112
INSTRUMENTATION NOISE FLOOR (DB)	= 70.529

JSTTC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.58825E+01	162.0
500	1.08117E-01	120.3
1000	6.19289E-01	127.9
2000	2.43949E+00	133.9
4000	4.42513E+00	136.5
8000	4.70007E+00	136.7
16000	2.08441E+00	133.2
31500	1.30585E+00	131.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	165.9
20000	168.9
40000	171.9
80000	174.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	100.0	105.0	107.0	107.1	105.5	102.3	95.6	117.1
20.0	99.4	106.7	110.1	110.8	109.9	101.8	94.8	115.7
25.0	99.0	107.0	111.6	112.4	110.4	102.9	96.0	117.1
30.0	97.8	106.3	112.6	113.8	113.3	106.2	98.1	118.2
35.0	96.0	105.3	111.5	113.6	113.6	108.5	100.6	118.5
40.0	93.1	102.6	110.3	113.9	114.2	110.4	101.3	118.8
45.0	90.7	99.2	108.0	112.5	113.6	109.6	102.9	117.7
50.0	88.3	96.3	104.6	109.3	111.0	108.0	102.3	116.0
55.0	87.0	94.2	100.6	105.5	107.7	105.8	101.4	113.2
60.0	85.4	92.5	98.7	102.7	105.3	104.3	100.5	110.7
65.0	85.1	91.2	96.6	99.8	102.2	102.0	104.4	108.8
70.0	84.8	90.1	95.1	98.3	100.6	101.0	104.7	107.8
75.0	84.5	89.3	94.5	97.4	99.3	100.1	103.1	106.9
80.0	83.6	89.1	93.6	96.3	98.3	99.4	102.1	105.6
85.0	83.3	88.4	93.0	95.8	97.7	98.7	101.1	105.2
90.0	83.3	88.8	92.6	95.0	97.1	98.1	100.3	104.4
95.0	83.0	87.1	91.8	94.2	96.5	97.7	99.7	103.4
100.0	81.4	86.6	91.0	94.3	96.0	97.2	99.0	103.3
105.0	80.6	85.9	90.1	93.6	95.6	96.8	98.6	102.9
110.0	80.1	85.6	89.9	93.3	95.1	96.5	98.1	102.8
115.0	80.1	84.9	89.6	92.8	94.7	96.2	97.8	102.1

MODEL THRUST = 40.698 FULL SCALE THRUST = 20000.000

L.	PNOW.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 22.4	45.1	90.2	180.4	360.8	721.6	1021.0	2841.9	5839.7	11277.4	22559.8
95.6	89.0	89.3	89.4	72.21	77.15	79.89	78.74	78.90	69.44	45.55	26.30	1.78	-88.37	-193.97
95.9	91.5	91.1	89.8	74.23	81.25	84.84	80.96	82.15	72.60	61.36	46.10	19.21	-27.84	-189.11
99.3	95.2	94.6	93.1	75.49	83.47	87.95	86.63	85.81	76.29	64.47	52.05	29.22	-8.29	-160.00
98.8	98.0	97.9	95.8	75.72	84.19	90.20	91.39	89.36	81.52	69.84	58.28	38.94	6.35	-66.98
98.9	100.9	100.8	97.8	75.18	83.36	90.65	92.66	91.47	85.38	73.99	63.68	48.63	17.84	-27.19
99.6	103.0	101.9	98.3	75.17	82.66	90.31	93.79	93.50	88.56	78.47	68.95	53.26	27.22	-13.86
91.3	103.1	101.6	97.9	71.84	80.38	88.88	93.72	93.84	88.49	79.35	70.62	58.87	31.95	-8.45
98.1	101.4	100.0	96.9	69.89	78.48	88.00	90.35	92.06	86.87	79.78	71.31	57.48	35.34	1.65
91.9	100.1	98.8	96.5	69.26	78.19	87.88	89.69	89.33	86.22	81.76	73.68	60.81	39.96	7.29
92.1	99.5	98.0	96.5	68.87	76.97	81.16	88.21	87.64	85.56	83.56	75.70	63.27	43.18	12.91
95.1	99.0	98.2	96.4	69.47	76.29	79.48	82.84	86.78	84.45	84.20	76.38	64.38	45.06	15.99
96.5	98.8	95.8	96.0	67.45	73.55	78.45	81.53	83.38	83.03	84.16	78.09	66.18	46.24	17.73
92.9	98.1	95.1	94.2	68.19	72.84	78.48	80.93	82.65	82.80	83.64	78.10	66.88	46.33	18.91
93.1	97.4	94.3	93.6	67.64	72.93	77.17	80.70	81.83	81.88	82.70	77.98	66.14	46.12	18.78
89.7	96.7	93.6	91.8	67.22	72.25	76.89	79.59	81.12	81.30	81.81	77.80	65.68	45.55	18.49
88.8	96.0	92.9	89.2	67.25	71.76	76.53	78.19	80.67	81.75	81.18	77.41	65.74	46.05	18.98
85.7	95.4	92.3	88.4	66.48	71.66	75.66	78.15	79.91	80.14	80.64	77.19	65.98	46.16	19.44
93.1	94.5	91.5	86.3	65.35	70.63	74.76	77.26	79.33	79.69	79.55	77.05	65.68	46.48	19.89
92.8	93.9	90.9	85.2	64.72	69.51	73.93	76.78	78.71	79.24	79.01	76.61	65.15	46.93	20.32
96.3	93.1	90.1	84.6	63.51	68.40	73.10	76.41	77.98	78.63	78.17	76.25	64.96	46.22	21.41
85.1	92.3	89.3	83.8	63.20	67.42	72.07	75.49	77.31	77.85	77.37	74.78	63.73	46.48	21.66

RUN NUMBER	= 172.00 (736.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= 550.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 4.854
VELOCITY RATIO	= .578
PRIMARY VELOCITY (FT/SEC)	= 1817.254
MASS FLOW RATIO	= 4.149
PRIMARY MASS FLOW (LB/SEC)	= .320
THRUST (LBS)	= 61.379
ENVIRONMENTAL TEMPERATURE (R)	= 536.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.400
ENVIRONMENTAL HUMIDITY (PER CENT)	= 22.000
CALIBRATION FACTOR (MV TO DYNES/SQ CM)	= .126
INSTRUMENTATION NOISE FLOOR (DB)	= 71.587

OCTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.31874E+01	143.7
500	3.59019E-01	125.6
1000	1.98840E+00	133.0
2000	5.56251E+00	137.5
4000	5.64330E+00	137.5
8000	4.27290E+00	136.3
16000	2.43268E+00	133.9
31500	2.92862E+00	134.7

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	165.8
20000	168.8
40000	171.8
80000	174.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	107.3	110.2	111.5	109.2	104.5	100.7	95.0	116.3
20.0	105.2	111.5	113.6	111.3	106.2	99.6	94.8	117.7
25.0	104.0	112.0	115.2	112.6	107.3	99.6	95.5	118.8
30.0	102.4	111.5	115.6	113.7	109.1	101.2	96.4	119.3
35.0	99.7	109.8	115.2	114.6	111.1	103.6	98.2	119.5
40.0	98.0	107.8	113.8	114.3	111.8	105.9	100.3	118.9
45.0	96.1	104.6	111.2	113.2	112.3	107.3	102.9	117.9
50.0	93.4	101.3	107.9	110.9	111.1	107.2	104.6	116.1
55.0	90.7	98.4	104.8	107.8	109.0	107.1	105.8	114.3
60.0	90.5	96.6	102.5	105.5	107.2	106.3	106.8	113.1
65.0	89.8	95.6	100.9	103.2	105.2	105.5	107.8	112.2
70.0	88.5	95.0	99.5	102.3	104.2	104.9	107.9	111.7
75.0	88.3	94.1	98.8	101.3	103.3	104.2	107.0	110.9
80.0	88.5	93.0	97.8	100.6	103.0	103.5	106.2	110.2
85.0	87.6	92.5	96.9	100.4	102.6	103.2	105.8	109.8
90.0	86.6	91.8	96.8	99.7	102.2	103.0	105.3	109.4
95.0	86.6	91.5	96.2	99.4	102.0	102.8	105.0	109.1
100.0	86.1	90.3	95.5	99.0	101.8	102.6	104.8	108.8
105.0	85.0	90.3	95.0	98.7	101.6	102.5	104.6	108.6
110.0	84.6	89.9	94.4	98.3	101.5	102.3	104.5	108.4
115.0	84.0	89.2	94.3	98.0	101.5	102.2	104.3	108.3

MODEL THRUST = 61.379 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	27.7	OCTAVE 55.4	BAND 110.8	SOUND 221.6	PRESSURE 443.2	LEVELS 886.4	1745.0	3490.1	6924.7	13849.5	27699.0
795.6	86.2(86.0)	86.2	77.60	80.50	81.70	78.76	72.50	64.57	49.51	26.48	-14.46	-84.12	-191.80
885.7	90.8(90.5)	90.1	78.06	84.29	86.21	83.49	77.23	67.45	55.64	37.48	5.77	-47.68	-129.89
940.3	94.2(93.8)	93.2	78.71	86.64	89.70	86.81	80.53	70.24	60.42	45.15	18.91	-24.91	-92.02
988.0	96.9(96.4)	95.1	78.51	87.61	91.60	89.45	83.96	73.88	64.27	50.90	28.26	-9.25	-66.43
915.2	99.1(98.5)	96.4	77.03	87.09	92.47	91.53	87.28	77.98	68.40	56.36	36.24	3.16	-47.08
933.6	100.3(99.5)	96.7	76.36	86.08	92.07	92.28	89.13	81.53	72.26	61.19	42.91	13.07	-32.08
121.3	101.3(100.2)	96.4	75.25	83.70	90.27	92.04	90.60	84.08	76.19	65.86	48.97	21.57	-19.75
950.1	101.1(99.7)	95.1	73.24	81.10	87.67	90.47	90.07	84.86	79.07	69.30	53.48	27.96	-10.41
831.2	100.4(98.7)	93.6	71.09	78.86	85.17	87.98	88.62	85.44	81.17	71.84	56.85	32.79	-3.29
732.1	100.7(98.7)	92.6	71.41	77.49	83.36	86.14	87.41	85.26	82.95	73.96	59.62	36.70	2.42
655.1	101.7(99.9)	91.4	71.12	76.89	82.19	86.12	85.78	84.92	84.58	75.83	62.00	39.98	7.08
596.3	101.5(99.1)	91.5	70.10	76.60	81.07	83.65	85.15	84.71	85.14	78.66	63.21	41.85	10.02
552.9	101.0(98.6)	91.0	70.13	75.97	80.59	82.95	84.91	84.31	84.60	78.23	63.06	42.20	11.15
523.1	100.5(98.0)	90.5	70.50	75.05	79.73	82.40	84.40	83.82	84.03	77.76	62.79	42.27	11.76
505.7	100.2(97.8)	90.2	69.73	74.41	78.96	82.27	84.11	83.62	83.81	77.60	62.75	42.43	12.23
500.0	99.8(97.4)	89.9	68.80	73.93	78.48	81.69	83.73	83.44	83.37	77.19	62.37	42.11	12.02
505.7	99.8(97.0)	89.5	68.77	73.59	78.26	81.34	83.60	83.26	83.02	76.81	61.95	41.63	11.44
525.1	99.0(96.8)	89.1	68.14	72.33	77.63	80.13	83.20	82.89	82.66	76.40	61.42	40.90	10.39
557.4	98.5(96.1)	88.7	68.91	72.16	76.81	80.31	82.80	82.57	82.20	75.81	60.66	39.80	8.75
598.3	98.0(95.6)	88.2	66.28	71.56	75.97	79.69	82.62	82.11	81.73	75.21	59.76	38.48	6.57
655.1	97.3(95.0)	87.7	65.28	70.47	75.52	79.07	82.08	81.66	81.39	74.37	58.53	36.49	3.60

RUN NUMBER	= 173.000
AXIAL POSITION OF PRIMARY NZT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= 553.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 9.784
VELOCITY RATIO	= .423
PRIMARY VELOCITY (FT/SEC)	= 1817.254
MASS FLOW RATIO	= 5.420
PRIMARY MASS FLOW (LB/SEC)	= .322
THRUST (LBS)	= 59.771
ENVIRONMENTAL TEMPERATURE (R)	= 538.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 21.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .112
INSTRUMENTATION NOISE FLOOR (DB)	= 70.579

OUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.23389E+01	143.5
500	1.37401E-01	121.4
1000	6.04649E-01	127.8
2000	1.94776E+00	132.9
4000	4.17393E+00	136.2
8000	6.72270E+00	138.3
16000	5.00519E+00	137.0
31500	3.74728E+00	135.7

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	165.7
20000	168.7
40000	171.7
80000	174.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	101.3	105.9	106.5	106.6	108.8	107.8	101.1	114.7
20.0	100.8	105.3	106.2	108.6	111.0	109.9	104.1	116.4
25.0	99.9	106.6	109.9	110.6	112.5	110.8	105.8	117.8
30.0	98.2	105.7	110.3	112.9	113.6	111.3	106.7	118.6
35.0	96.0	103.7	110.2	113.6	113.8	111.6	108.0	119.1
40.0	94.6	102.2	109.2	113.1	114.4	112.7	108.7	119.2
45.0	92.3	100.0	107.2	112.4	114.4	111.9	108.1	118.6
50.0	90.1	97.9	104.5	110.2	113.5	111.4	108.3	117.5
55.0	88.1	95.3	102.2	106.9	111.0	110.3	108.4	115.7
60.0	87.7	94.0	99.9	104.4	108.2	108.5	108.4	113.9
65.0	87.0	93.0	98.6	102.8	106.2	106.9	107.9	112.6
70.0	86.4	92.0	97.3	101.1	104.5	105.3	107.2	111.3
75.0	86.1	91.6	96.5	100.0	103.0	104.6	106.5	110.5
80.0	85.9	91.1	96.1	99.0	101.7	103.5	105.8	109.5
85.0	85.1	90.0	94.9	98.0	100.7	102.4	105.0	108.5
90.0	84.5	89.5	94.2	97.1	99.7	101.3	104.3	107.7
95.0	83.6	88.6	93.8	96.3	98.6	100.4	103.8	107.0
100.0	82.6	88.0	92.6	95.4	97.8	99.6	103.2	106.2
105.0	82.6	87.8	92.1	94.5	97.0	98.9	102.8	105.7
110.0	81.8	87.1	91.5	94.2	96.3	98.2	102.5	105.2
115.0	81.4	86.4	90.8	93.6	95.7	97.7	102.3	104.9

MODEL THRUST = 59.771 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	27.3	OCTAVE 54.7	BAND 109.3	SOUND 218.7	PRESSURE 437.3	LEVELS 874.7	1722.0	3444.1	6833.5	13666.9	27333.8
5795.6	86.5	96.2	83.3	71.80	76.37	76.83	76.32	76.97	71.86	55.98	33.22	-7.29	-76.31	-183.19
4385.7	92.0	91.5	87.6	73.80	78.21	80.98	80.95	82.15	77.93	65.23	47.28	15.90	-37.06	-118.68
3549.3	96.0	95.3	91.1	74.65	81.36	84.55	84.85	85.82	81	71.04	55.94	29.97	-13.47	-80.04
3000.0	98.9	98.0	93.5	74.48	81.96	86.45	87.84	88.63	84.24	74.82	61.59	39.18	2.88	-54.77
2615.2	100.9	99.8	95.4	73.43	81.12	87.57	90.72	90.16	86.17	78.36	66.44	46.52	13.73	-36.15
2333.6	102.5	101.3	95.4	72.99	80.60	87.93	91.21	91.87	88.07	80.83	69.88	51.77	22.19	-22.84
2121.3	103.1	101.8	96.7	71.53	79.95	86.39	91.34	92.79	88.81	81.61	71.38	54.65	27.48	-13.54
1958.1	103.2	101.6	96.2	70.08	77.86	84.41	89.93	92.62	89.15	83.00	73.37	57.65	32.35	-5.75
1831.2	102.2	100.2	94.8	68.61	75.45	82.68	87.20	90.79	88.80	84.05	74.81	59.96	36.10	.27
1732.1	101.8	99.7	93.2	68.70	75.00	80.84	85.22	88.66	87.60	84.77	75.66	61.66	38.92	4.84
1655.1	101.1	99.2	92.3	68.47	74.41	80.80	83.94	86.99	86.49	84.89	76.25	62.94	40.89	9.02
1596.3	100.5	98.5	91.2	68.10	73.75	79.00	82.57	85.97	85.27	84.65	76.20	63.87	41.69	10.84
1552.9	100.5	98.1	90.5	68.10	73.59	78.41	81.79	84.31	85.10	84.30	76.00	63.95	42.26	11.42
1523.1	99.9	97.4	89.8	68.03	73.19	78.14	80.98	83.23	83.93	83.86	75.66	63.81	42.46	12.19
1505.7	99.2	96.6	89.0	67.35	72.22	77.07	80.06	82.32	82.97	83.17	75.03	63.29	42.14	12.15
1500.0	98.6	95.9	88.1	66.82	71.74	76.65	79.13	81.39	82.55	82.43	74.63	61.72	41.64	11.75
1504.7	97.8	95.2	87.3	65.47	70.80	75.95	78.29	80.21	82.08	81.98	73.85	61.18	40.95	10.96
1523.1	96.9	94.3	86.4	64.75	70.10	75.31	77.50	79.34	80.03	81.23	73.08	60.18	39.83	9.51
1552.9	95.1	93.6	85.6	64.98	69.72	73.98	76.25	78.15	79.15	80.88	72.29	59.23	38.94	7.71
1594.9	93.6	92.8	84.8	63.59	68.42	73.14	75.56	77.35	78.13	79.92	71.64	58.15	38.08	6.35
1654.1	90.8	92.1	84.0	62.47	67.7-	72.1-	74.41	77.01	77.31	79.2-	73.81	58.88	38.05	6.14

RUN NUMBER	= 174.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= 560.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 9.784
VELOCITY RATIO	= .643
PRIMARY VELOCITY (FT/SEC)	= 1417.254
MASS FLOW RATIO	= 8.451
PRIMARY MASS FLOW (LB/SEC)	= .322
THRUST (LBS)	= 107.639
ENVIRONMENTAL TEMPERATURE (R)	= 540.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 18.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .126
INSTRUMENTATION NOISE FLOOR (DB)	= 71.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.92154E+01	144.7
500	6.02298E-01	127.8
1000	2.49831E+00	134.0
2000	4.72255E+00	136.7
4000	5.51323E+00	137.4
8000	6.91778E+00	138.4
16000	5.53204E+00	137.4
31500	3.42920E+00	135.4

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	164.3
20000	167.3
40000	170.4
80000	173.4

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
(DEG)	500	1000	2000	4000	8000	16000	31500	ALL
15.0	100.0	112.0	110.3	107.6	107.9	106.6	101.1	117.0
20.0	107.(	113.0	112.2	109.6	109.4	108.7	103.9	118.5
25.0	106.(	113.0	113.8	111.1	111.3	109.7	104.8	119.4
30.0	104.(	111.5	114.0	112.0	111.8	110.6	107.0	119.5
35.0	102.(	110.2	113.8	113.5	113.0	111.0	106.9	119.8
40.0	100.(	107.7	112.5	113.8	113.6	110.7	107.4	119.5
45.0	97.4	105.2	110.5	113.0	113.6	111.2	107.5	118.6
50.0	95.3	102.6	108.3	111.3	113.1	111.4	108.5	118.0
55.0	94.0	101.0	106.5	109.4	112.0	110.7	108.3	116.9
60.0	93.6	99.7	104.9	107.6	110.0	109.5	108.1	115.5
65.0	93.4	99.2	103.6	106.1	108.3	108.3	107.5	114.2
70.0	92.9	97.8	102.2	104.7	106.8	107.1	106.4	112.9
75.0	92.1	97.4	101.5	103.9	105.5	106.6	106.4	112.3
80.0	92.1	96.5	100.8	102.9	104.8	106.2	105.3	111.6
85.0	92.1	96.2	100.4	102.1	104.2	105.6	104.9	111.0
90.0	91.3	95.5	99.6	101.6	103.6	104.9	104.2	110.3
95.0	90.2	94.8	98.6	100.9	102.9	104.2	103.7	109.7
100.0	90.2	94.1	98.5	100.4	102.4	103.7	103.1	109.2
105.0	88.7	94.2	98.0	99.9	102.0	103.2	102.6	108.7
110.0	88.5	93.3	97.2	99.7	101.7	102.9	102.2	108.6
115.0	88.3	93.3	97.0	99.2	101.5	102.5	102.0	108.0

MODEL THRUST = 107.639 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
			36.7	73.4	146.7	293.4	586.9	1173.9	2310.9	4621.8	9170.2	18340.4	36680.8
95.4	84.3(84.2)	83.9	75.94	79.86	77.88	74.23	72.20	65.84	46.72	17.30	-33.79	-117.86	-242.71
85.7	89.6(89.4)	87.7	78.03	83.29	82.27	79.05	77.05	71.84	57.34	34.35	-5.05	-69.40	-144.60
69.3	93.4(93.1)	90.6	78.63	85.19	85.78	82.59	81.31	76.08	63.30	44.12	11.67	-40.98	-119.60
00.0	96.0(95.5)	92.0	78.23	85.13	87.53	84.98	83.60	79.39	69.08	52.41	24.51	-20.45	-86.52
15.2	98.3(97.8)	93.6	77.78	85.45	88.55	87.45	86.18	81.53	71.64	56.71	32.01	-7.57	-65.55
33.6	99.6(98.8)	94.1	75.86	83.55	88.21	89.16	88.01	82.74	74.24	60.60	38.24	2.60	-44.67
21.3	100.2(99.4)	94.2	74.15	81.84	87.02	89.19	89.08	84.40	76.01	63.34	42.73	10.06	-27.54
58.1	100.6(99.6)	93.9	72.69	79.99	85.53	88.31	89.26	85.54	76.32	66.40	47.15	16.76	-17.41
31.7	100.4(99.3)	93.2	71.95	78.92	84.31	86.97	88.86	85.66	79.22	67.87	49.68	21.06	-10.64
32.1	100.1(98.8)	92.1	72.09	78.18	83.28	85.70	87.33	85.07	79.87	68.98	51.60	24.37	-15.04
55.1	99.8(98.5)	91.3	72.26	78.08	82.37	84.63	86.09	84.45	80.00	69.46	52.72	26.37	-11.23
86.3	99.1(97.7)	90.3	72.09	76.95	81.24	83.51	84.66	83.62	79.47	69.19	52.95	27.62	-8.94
52.9	98.1(97.6)	89.8	71.55	76.81	80.85	82.97	83.97	83.47	79.83	69.75	53.47	28.14	-8.50
23.1	98.4(97.0)	89.3	71.72	76.07	80.29	82.15	83.40	83.32	79.09	69.09	53.65	28.15	-8.97
09.7	97.1(96.6)	88.8	71.42	75.91	79.95	81.67	82.93	82.82	78.74	68.88	53.38	28.32	-8.34
90.0	97.5(96.0)	88.2	71.00	75.19	79.20	80.95	82.35	82.14	78.14	68.30	52.86	28.07	-8.66
05.7	96.8(95.3)	87.5	69.85	74.44	78.43	80.28	81.65	81.41	77.56	67.70	52.20	28.14	-8.52
23.1	96.1(96.6)	86.9	69.75	73.69	77.66	79.64	81.03	80.79	76.83	66.89	51.25	26.96	-8.08
52.9	95.4(93.9)	86.2	68.16	73.43	77.33	79.01	80.62	80.05	76.02	65.94	50.05	25.33	-10.32
06.3	94.4(93.2)	85.6	67.05	72.66	76.31	78.47	79.87	79.67	75.26	64.99	48.74	23.41	-13.15
55.1	93.4(92.4)	84.9	67.13	72.12	75.76	77.72	79.29	78.80	74.61	63.96	47.23	21.09	-16.72

RUN NUMBER	= 175.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= NONE
PRIMARY TEMPERATURE (R)	= 1290.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 1400.451
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= .140
THRUST (LBS)	= 6.090
ENVIRONMENTAL TEMPERATURE (R)	= 568.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.900
ENVIRONMENTAL HUMIDITY (PER CENT)	= 12.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .040
INSTRUMENTATION NOISE FLOOR (DB)	= 81.577

OUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.89350E+00	132.8
500	4.07741E-03	106.1
1000	3.56473E-02	115.5
2000	2.50039E-01	124.0
4000	6.97393E-01	128.4
8000	6.36724E-01	128.0
16000	1.93148E-01	122.9
31500	7.64751E-02	118.8

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	164.9
20000	167.9
40000	170.9
80000	174.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	84.5	93.3	99.6	102.6	102.3	97.3	86.6	106.8
20.0	84.3	93.8	101.3	104.5	104.3	95.8	88.2	108.8
25.0	83.5	93.6	101.9	105.5	105.1	97.1	90.1	109.6
30.0	83.0	93.1	101.7	105.6	104.3	96.6	90.1	109.4
35.0	81.8	91.9	101.0	105.7	104.1	96.5	90.6	109.2
40.0	80.8	90.2	99.9	104.9	103.5	96.4	91.3	108.4
45.0	78.7	88.7	98.2	103.5	102.9	97.2	91.9	107.5
50.0	77.6	86.4	95.5	101.3	101.5	97.3	92.6	105.9
55.0	74.9	84.1	93.2	98.4	99.2	96.5	92.5	103.8
60.0	74.0	82.2	90.5	95.5	97.6	95.8	92.4	102.1
65.0	72.0	80.3	88.2	93.5	95.8	94.6	91.6	100.4
70.0	71.1	79.2	86.2	91.7	94.1	92.9	90.2	98.8
75.0	70.6	77.6	85.2	90.2	92.7	91.8	89.2	97.5
80.0	70.1	77.1	84.5	89.6	91.9	90.5	88.0	96.6
85.0	70.1	77.4	84.1	88.4	90.8	89.5	87.6	95.7
90.0	70.1	77.1	83.5	87.7	89.9	88.4	86.2	94.7
95.0	70.1	76.7	82.6	86.6	88.6	87.8	86.3	93.9
100.0	69.5	76.0	82.3	86.4	88.5	87.1	86.8	93.4
105.0	68.3	75.4	81.3	85.2	87.5	86.1	86.6	92.5
110.0	67.6	75.1	81.3	85.0	87.0	85.9	86.5	92.2
115.0	66.8	74.1	80.8	84.6	86.6	84.7	83.2	91.5

MODEL THRUST = 6.090 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 8.7	17.4	34.9	69.8	139.6	279.2	549.7	1099.3	2181.2	4362.4	8724.8
5795.6	85.4(84.4)	87.0	64.94	73.76	79.99	82.91	82.39	66.52	63.71	55.28	40.21	12.22	-37.34
4385.7	91.0(89.8)	91.5	67.16	76.72	84.13	87.32	86.87	77.73	64.56	61.45	49.31	27.40	-10.43
3549.3	94.2(92.7)	94.2	68.22	78.30	86.60	90.13	89.63	81.07	72.80	66.47	56.08	33.78	4.26
3000.0	95.5(93.8)	95.4	69.20	79.33	87.87	91.73	90.33	82.12	76.49	68.68	59.43	43.49	10.39
2615.2	96.8(94.9)	96.4	69.22	79.31	88.41	93.02	91.28	83.28	76.44	70.99	62.44	48.29	25.25
2333.6	97.6(95.3)	96.7	69.17	78.61	88.27	93.20	91.68	84.29	78.33	73.14	65.28	52.22	30.47
2121.3	98.2(95.6)	96.6	67.86	77.90	87.33	92.66	91.90	85.91	79.89	74.98	67.49	55.34	35.30
1958.1	98.1(95.1)	95.6	67.48	76.30	85.33	91.13	91.21	86.74	81.32	76.49	69.41	57.97	39.23
1831.2	97.6(94.2)	94.2	65.41	74.58	83.02	88.86	89.57	86.59	81.91	77.19	70.38	59.48	41.77
1732.1	97.3(93.5)	92.9	64.91	73.16	81.69	86.41	88.41	86.36	82.31	77.69	71.08	60.61	43.70
1655.1	96.5(92.4)	91.7	63.37	71.65	79.91	84.84	87.02	85.44	82.02	77.47	71.02	60.89	44.59
1596.3	95.2(91.1)	90.4	62.77	70.83	77.84	83.29	85.66	84.19	80.97	76.47	70.15	60.26	44.44
1557.9	94.5(90.3)	89.6	62.51	69.52	77.12	82.04	84.51	83.17	80.19	75.73	69.50	59.80	44.32
1523.1	93.5(89.3)	88.7	62.15	69.20	76.58	81.66	83.48	82.26	79.18	74.75	68.48	58.82	43.78
1505.7	92.9(88.5)	87.9	62.25	69.45	76.31	80.94	82.86	81.36	78.94	74.53	68.39	58.90	43.80
1500.0	91.7(87.4)	86.9	62.28	69.33	75.61	79.92	81.97	81.26	77.53	73.13	67.00	57.54	42.49
1504.7	91.2(86.7)	86.1	62.25	68.77	74.74	79.14	81.65	80.64	77.04	73.23	67.09	57.60	42.50
1523.1	90.1(85.8)	85.5	61.59	68.67	74.37	78.41	81.67	80.41	76.80	71.57	65.60	55.83	41.03
1552.9	89.2(84.7)	84.6	60.18	67.44	73.20	77.04	79.26	77.72	75.45	71.19	64.96	55.20	39.79
1594.3	88.6(84.2)	83.9	59.24	66.19	72.96	76.44	78.54	77.23	75.21	70.71	64.39	54.51	39.64
1655.1	87.0(82.7)	82.8	58.17	65.45	72.00	75.41	77.82	75.71	73.55	69.00	62.55	52.42	38.12

RUN NUMBER	= 174.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1290.000
SECONDARY TEMPERATURE (R)	= 590.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 1.000
VELOCITY RATIO	= .370
PRIMARY VELOCITY (FT/SEC)	= 3400.851
MASS FLOW RATIO	= 1.011
PRIMARY MASS FLOW (LB/SEC)	= .140
THRUST (LBS)	= 8.365
ENVIRONMENTAL TEMPERATURE (R)	= 566.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 14.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .035
INSTRUMENTATION NOISE FLOOR (DB)	= 60.572

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.69980E+00	132.3
500	4.04632E-03	106.1
1000	4.11049E-02	116.1
2000	2.77463E-01	124.4
4000	6.28366E-01	128.0
8000	5.01157E-01	127.0
16000	1.76619E-01	122.5
31500	6.70399E-02	118.3

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	163.1
20000	166.1
40000	169.1
80000	172.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	79.8	94.2	100.1	101.9	99.7	91.3	83.1	105.9
20.0	84.8	94.9	101.8	103.8	101.4	93.1	85.3	107.7
25.0	84.2	94.0	102.3	104.8	102.7	94.7	86.8	108.5
30.0	83.6	93.7	102.1	105.0	102.6	94.8	86.2	108.6
35.0	82.3	92.5	101.5	105.0	102.6	95.5	89.5	108.5
40.0	80.4	90.8	100.2	104.5	102.6	96.2	90.7	108.0
45.0	79.0	89.2	98.4	103.1	102.4	97.1	92.1	107.2
50.0	76.8	87.2	96.5	100.8	100.9	96.8	92.4	105.6
55.0	75.1	84.6	93.5	98.1	99.2	96.7	92.7	103.8
60.0	73.9	82.4	91.1	95.9	97.7	95.7	91.8	102.2
65.0	71.8	80.9	88.7	93.8	96.0	94.5	91.2	100.6
70.0	71.4	78.9	86.9	92.0	94.4	93.0	89.9	99.0
75.0	71.0	78.0	85.6	90.8	92.8	91.3	88.3	97.4
80.0	69.6	77.3	84.7	89.8	91.9	90.6	88.2	96.7
85.0	70.1	77.1	84.3	89.0	91.1	89.3	86.5	95.7
90.0	69.1	76.9	83.8	88.1	90.2	88.3	85.9	94.8
95.0	69.6	76.4	82.9	87.4	89.2	87.5	85.1	94.0
100.0	69.6	76.4	82.2	86.5	88.5	86.9	84.1	93.3
105.0	68.5	75.3	81.9	86.0	87.7	85.8	83.5	92.5
110.0	67.9	74.4	81.3	85.1	86.9	84.5	82.7	91.6
115.0	67.9	73.5	80.5	84.8	86.6	84.6	82.6	91.4

MODEL THRUST = 8.365 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	10.2	OCTAVE 20.5	BAND 40.9	SOUND 81.8	PRESSURE 163.6	LEVELS 327.2	644.2	1289.5	2556.5	5112.9	10225.9
1795.6	82.7(81.9)	84.8	58.88	73.29	79.10	80.83	78.27	68.87	57.96	48.36	31.01	-1.06	-57.00
1845.7	87.7(86.7)	89.0	66.32	76.44	83.23	85.21	82.51	73.47	63.64	55.64	41.78	16.78	-26.24
1869.3	91.2(89.9)	91.7	67.51	77.36	85.60	88.00	85.69	77.11	67.51	59.47	48.67	27.87	-7.55
1888.0	93.1(91.6)	93.3	68.38	78.52	86.92	89.73	87.11	78.84	70.79	64.38	53.95	35.90	5.49
1915.2	94.7(92.9)	94.3	68.25	78.53	87.53	90.97	88.32	80.82	73.58	67.60	58.12	42.00	15.11
1933.6	96.0(93.9)	94.9	67.39	77.77	87.14	91.42	89.39	82.58	75.99	70.33	61.55	46.84	22.53
2121.3	97.0(94.5)	94.9	66.78	77.05	86.24	90.90	90.04	84.39	78.36	72.95	64.69	51.05	29.67
1958.1	96.8(93.9)	93.9	65.32	75.73	85.04	89.27	89.26	84.83	79.49	74.26	66.41	53.59	32.70
1831.2	96.6(93.6)	92.7	64.19	73.86	82.61	87.16	88.09	85.28	80.41	75.33	67.79	55.61	35.88
1732.1	96.0(92.6)	91.6	63.51	71.97	80.61	85.40	87.15	84.85	80.08	75.11	67.82	56.13	37.31
1655.1	95.2(91.6)	90.4	61.81	70.88	78.66	83.73	85.82	84.00	79.98	75.09	68.00	56.69	38.57
1596.3	94.1(90.3)	89.1	61.72	69.22	77.19	82.25	84.56	82.86	79.03	74.22	67.26	56.25	38.67
1552.9	92.7(88.9)	87.9	61.54	68.48	76.09	81.29	83.18	81.39	77.67	72.90	66.06	55.27	38.08
1523.1	92.2(88.3)	87.3	60.29	68.00	75.34	80.45	82.46	80.84	77.76	73.03	66.25	55.61	38.70
1505.7	91.0(87.1)	86.4	60.49	67.48	75.11	79.73	81.73	79.67	76.21	71.49	64.76	54.21	37.66
1500.0	90.2(86.3)	85.6	59.90	67.68	74.57	78.95	80.85	78.75	75.61	70.90	64.19	53.66	36.96
1505.7	89.3(85.3)	84.7	60.39	67.16	73.66	78.11	79.86	77.84	74.75	70.03	63.30	52.75	35.99
1523.1	88.5(84.6)	83.9	60.26	67.06	72.48	77.15	79.06	77.16	73.72	68.98	62.21	51.57	34.86
1552.9	87.4(83.4)	82.9	59.06	65.46	72.42	76.47	78.05	75.96	72.86	68.09	61.25	50.46	33.27
1596.3	86.1(82.1)	81.8	58.20	64.72	71.47	75.12	77.05	74.37	71.86	67.05	60.09	49.09	31.54
1655.1	85.5(81.4)	81.2	57.88	63.42	70.43	74.71	76.66	74.17	71.32	66.43	59.33	48.03	29.91

RUN NUMBER	= 177.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1220.000
SECONDARY TEMPERATURE (R)	= 583.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 1.000
VELOCITY RATIO	= .714
PRIMARY VELOCITY (FT/SEC)	= 1362.119
MASS FLOW RATIO	= 1.800
PRIMARY MASS FLOW (LB/SEC)	= .138
THRUST (LBS)	= 13.370
ENVIRONMENTAL TEMPERATURE (R)	= 553.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 16.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .040
INSTRUMENTATION NOISE FLOOR (DB)	= 61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.04421E+00	133.1
500	6.63147E-03	108.2
1000	5.74824E-02	117.6
2000	3.50083E-01	125.4
4000	7.58591E-01	128.8
8000	5.92466E-01	127.7
16000	2.01644E-01	123.0
31500	7.73061E-02	118.9

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	161.8
20000	164.9
40000	167.9
80000	170.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	87.3	95.6	101.0	102.7	100.6	92.7	85.1	106.9
20.0	85.1	96.2	102.8	104.7	102.9	94.6	86.6	108.8
25.0	86.7	96.1	103.4	105.6	103.5	95.4	88.1	109.5
30.0	84.9	94.9	103.2	105.8	103.6	96.0	89.1	109.5
35.0	84.1	93.6	102.5	106.0	103.8	96.5	90.1	109.5
40.0	82.5	92.4	101.3	105.4	103.4	97.0	91.6	109.0
45.0	80.6	90.5	99.2	103.7	102.7	97.4	92.6	107.8
50.0	79.1	88.3	96.9	101.3	101.1	97.4	93.0	106.0
55.0	77.4	86.3	94.5	98.8	99.9	97.1	93.2	104.4
60.0	75.2	83.8	91.4	96.4	97.9	96.0	92.5	102.5
65.0	74.0	82.1	89.4	94.0	96.2	94.8	91.3	100.9
70.0	73.2	80.5	87.8	92.4	94.3	92.6	90.3	99.1
75.0	72.4	79.4	86.6	91.1	93.2	91.7	89.0	97.9
80.0	72.0	79.2	86.1	90.5	92.0	90.6	88.1	97.0
85.0	72.0	78.8	85.5	89.4	91.3	89.7	87.0	96.1
90.0	72.0	77.9	84.5	88.4	90.3	88.6	86.3	95.2
95.0	72.0	77.9	84.0	87.4	89.1	87.4	85.3	94.1
100.0	70.6	77.4	83.5	87.0	88.7	87.0	84.8	93.7
105.0	70.1	77.1	82.6	86.2	87.9	86.1	84.1	92.9
110.0	69.5	76.0	82.5	86.1	87.7	86.0	84.1	92.7
115.0	68.9	75.1	82.5	86.0	87.3	85.5	83.9	92.4

MODEL THRUST = 13.370 FULL SCALE THRUST = 20000.000

L.	PNDB.		OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 12.9	25.9	51.7	103.4	206.8	413.7	814.5	1628.9	3232.0	6464.0	12927.9
5796.6	83.1	82.4	83.6	64.33	72.59	77.96	79.49	76.94	67.57	56.32	44.59	23.22	-15.79	-82.16
4388.7	88.1	87.2	88.0	64.55	75.64	82.23	83.96	81.77	72.41	61.64	52.04	35.14	4.89	-46.07
3549.3	91.2	90.1	90.6	67.97	77.42	84.67	86.77	84.38	75.35	65.82	57.40	43.23	18.18	-23.64
3000.0	93.1	91.8	92.1	67.65	77.69	85.95	88.42	86.02	77.58	68.81	61.29	48.78	27.15	-8.66
2615.2	94.8	93.2	93.3	68.02	77.53	86.42	89.88	87.39	79.41	71.36	64.42	53.13	33.88	2.29
2333.6	95.9	94.0	93.7	67.47	77.33	86.21	90.25	88.09	81.05	74.14	67.63	57.23	39.73	11.21
2121.3	96.4	94.2	93.3	66.42	76.30	84.94	89.44	88.18	82.75	76.20	70.01	60.28	44.10	17.91
1958.1	96.1	93.5	92.2	65.53	74.76	83.34	87.69	87.36	83.15	77.93	71.58	62.37	47.21	22.79
1831.2	95.8	92.9	91.2	64.42	73.37	81.58	85.76	86.70	83.41	78.37	72.61	63.81	49.43	26.40
1732.1	94.9	91.7	89.8	62.78	71.30	78.93	83.89	85.19	82.88	78.29	72.68	64.19	50.43	28.49
1655.1	94.0	90.7	88.5	61.89	69.99	77.35	81.87	83.95	82.14	77.58	72.09	63.84	50.56	29.46
1596.3	92.7	89.1	87.1	61.48	68.72	75.96	80.62	82.36	80.27	76.95	71.55	63.49	50.57	30.11
1552.9	91.8	88.2	86.1	60.93	67.85	75.05	79.50	81.48	79.56	75.90	70.56	62.63	49.99	30.00
1523.1	91.0	87.4	85.4	60.67	67.82	74.72	79.05	80.43	78.65	75.22	69.93	62.10	49.64	29.98
1505.7	90.2	86.6	84.7	60.77	67.50	74.19	78.10	79.86	77.92	74.25	68.98	61.21	48.85	29.39
1500.0	89.3	85.6	83.7	60.81	66.65	73.29	77.16	78.87	76.86	73.61	68.35	60.60	48.28	28.88
1505.7	88.1	84.4	82.7	60.77	66.61	72.76	76.12	77.69	75.56	72.53	67.27	59.69	47.14	27.67
1523.1	17.5	83.8	82.1	59.26	66.03	72.12	75.59	77.12	75.02	71.63	66.64	58.81	46.34	26.69
1552.9	86.5	82.8	81.1	58.57	65.61	71.08	74.60	76.20	74.04	71.03	65.70	57.77	45.13	25.14
1596.3	86.1	82.4	80.7	57.77	64.28	70.69	74.27	75.77	73.66	70.75	65.35	57.29	44.37	23.91
1655.1	85.3	81.6	80.1	56.85	63.05	70.38	73.85	74.99	72.82	70.19	64.70	56.46	43.17	22.67

RUN NUMBER	= 176.000
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1220.000
SECONDARY TEMPERATURE (R)	= 543.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 1.000
VELOCITY RATIO	= .780
PRIMARY VELOCITY (FT/SEC)	= 1362.119
MASS FLOW RATIO	= 2.026
PRIMARY MASS FLOW (LB/SEC)	= .137
THRUST (LBS)	= 14.919
ENVIRONMENTAL TEMPERATURE (R)	= 527.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 20.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .056
INSTRUMENTATION NOISE FLOOR (DB)	= 84.590

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.863718+00	136.9
500	1.45703E-02	111.6
1000	1.17977E-01	120.7
2000	7.47764E-01	128.7
4000	1.56432E+00	131.9
8000	1.25635E+00	131.0
16000	8.65004E-01	129.4
31500	2.97725E-01	124.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	165.1
20000	168.1
40000	171.2
80000	174.2

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.1	98.1	102.9	103.9	100.0	95.6	91.2	108.2
20.0	89.6	96.9	105.2	107.1	103.4	99.2	94.0	111.0
25.0	89.8	99.1	105.8	107.5	104.5	99.9	94.6	111.6
30.0	88.7	97.9	106.3	108.2	105.2	101.0	95.9	112.2
35.0	87.2	96.9	106.0	108.6	105.8	102.3	97.3	112.5
40.0	85.5	95.4	104.9	108.6	106.3	103.1	98.4	112.5
45.0	84.0	93.4	102.6	107.3	106.1	103.5	98.8	111.6
50.0	81.7	91.3	100.7	105.1	105.4	103.5	98.5	110.4
55.0	79.6	89.2	98.2	102.9	103.7	103.3	98.7	109.0
60.0	78.9	86.7	95.8	100.4	102.6	102.2	97.6	107.5
65.0	77.3	85.4	93.2	98.4	101.1	100.9	96.4	105.9
70.0	76.8	84.2	91.3	96.7	99.4	99.8	95.8	104.5
75.0	76.2	83.5	90.4	95.6	98.2	98.9	94.3	103.4
80.0	76.2	83.0	89.6	94.5	97.2	97.7	93.4	102.4
85.0	75.5	82.6	89.2	93.5	96.3	97.0	92.6	101.6
90.0	75.0	82.0	88.2	92.8	95.5	96.0	91.9	100.7
95.0	74.6	81.6	87.7	92.4	95.0	95.4	91.1	100.2
100.0	74.6	81.1	87.5	91.7	94.2	95.0	90.5	99.6
105.0	73.6	80.1	86.5	91.4	93.9	93.7	90.2	98.9
110.0	73.1	79.6	85.9	90.8	93.2	94.1	89.2	98.5
115.0	73.1	78.8	85.0	90.1	92.3	93.6	88.9	97.9

MODEL THRUST = 14.919 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	13.7	OCTAVE 27.3	BAND 54.6	SOUND 109.2	PRESSURE 218.5	LEVELS 437.0	860.3	1720.6	3414.0	6828.0	13655.9
795.6	84.0(83.2)	84.4	66.72	74.69	79.37	80.23	75.76	69.75	61.48	49.18	26.75	-14.04	-83.03
685.7	90.2(89.1)	89.6	68.59	77.91	84.16	85.91	81.74	76.38	68.21	58.18	40.47	8.88	-44.06
549.3	93.4(92.0)	92.1	70.59	79.96	86.62	88.16	84.80	79.22	71.60	62.91	48.00	21.86	-21.55
800.0	96.0(94.4)	94.2	70.94	80.22	86.55	90.40	87.04	82.03	74.47	67.05	54.00	31.43	-5.72
615.2	98.1(96.2)	95.7	70.66	80.37	89.44	91.95	88.90	84.70	77.89	70.69	58.92	38.87	6.09
533.6	99.4(97.6)	96.7	70.00	79.91	89.32	92.93	90.48	86.59	80.36	73.60	62.77	44.56	14.99
121.3	100.4(98.0)	96.6	69.27	78.67	87.91	92.55	91.14	87.89	81.74	75.34	65.23	48.39	21.24
958.1	100.5(97.9)	96.1	67.68	77.30	86.72	91.02	91.13	88.70	82.33	76.18	66.62	50.85	25.56
831.7	100.6(97.7)	95.2	66.22	75.73	84.78	89.38	89.98	89.07	83.24	77.30	68.16	53.22	29.37
732.1	99.9(96.9)	94.2	65.01	73.71	82.80	87.39	89.38	88.59	82.82	77.04	68.23	53.94	1.22
655.1	98.9(95.8)	93.0	64.77	72.81	80.62	85.76	88.28	87.66	82.08	76.43	67.88	54.08	32.24
596.3	98.2(96.9)	91.9	64.38	71.92	79.09	84.60	86.99	86.90	81.82	76.25	67.90	54.49	33.32
552.9	97.4(96.1)	91.1	64.25	71.50	78.41	83.53	85.96	86.26	80.57	75.08	66.87	53.75	33.07
523.1	96.5(93.2)	90.2	64.42	71.13	77.75	82.58	85.12	85.27	79.96	74.49	66.39	53.65	33.11
505.7	95.9(92.5)	89.5	63.73	70.85	77.46	81.76	84.32	84.62	79.23	73.81	65.76	52.95	32.80
500.0	95.0(91.6)	88.7	63.34	70.28	76.53	81.05	83.56	83.67	78.56	73.16	65.13	52.35	32.27
505.7	94.4(91.0)	88.1	62.86	69.43	75.92	80.57	83.15	83.07	77.74	72.34	64.30	51.49	31.33
523.1	93.7(90.4)	87.4	62.78	69.28	75.69	79.85	82.14	82.54	77.05	71.61	63.50	50.57	31.23
552.9	92.7(89.7)	86.6	61.63	68.15	74.49	78.32	81.46	81.10	76.47	70.94	62.78	49.65	30.97
596.3	92.1(88.9)	85.9	60.86	67.34	73.68	77.44	80.70	81.19	75.26	69.68	61.33	47.92	29.75
655.1	91.2(87.9)	85.0	60.55	66.21	72.63	77.24	79.52	80.36	74.54	68.92	60.37	46.58	28.76

RUN NUMBER	= 170.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1223.000
SECONDARY TEMPERATURE (R)	= 550.000
PRIMARY PRESSURE RATIO	= 1.680
AREA RATIO	= 2.007
VELOCITY RATIO	= .367
PRIMARY VELOCITY (FT/SEC)	= 1363.793
MASS FLOW RATIO	= 2.071
PRIMARY MASS FLOW (LB/SEC)	= .13M
THRUST (LBS)	= 10.307
ENVIRONMENTAL TEMPERATURE (R)	= 528.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.740
ENVIRONMENTAL HUMIDITY (PER CENT)	= 15.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .045
INSTRUMENTATION NOISE FLOOR (DB)	= 62.585

OUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.58238E+00	134.1
500	8.82438E-03	109.5
1000	8.36041E-02	119.2
2000	4.87217E-01	126.9
4000	8.989[illegible]E-01	129.5
8000	6.74006E-01	128.3
16000	2.93023E-01	124.7
31500	1.36699E-01	121.4

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	164.0
20000	167.0
40000	170.0
80000	173.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	88.1	97.5	102.9	102.8	100.3	93.4	87.9	107.7
20.0	87.8	97.7	104.5	105.3	103.0	96.2	90.7	109.8
25.0	87.6	97.2	104.6	105.8	103.5	97.0	92.2	110.1
30.0	86.7	97.0	104.5	106.7	103.9	98.0	93.1	110.6
35.0	85.0	95.3	103.9	106.6	103.8	98.0	93.9	110.3
40.0	83.5	93.6	102.5	106.0	103.8	98.4	94.4	109.7
45.0	81.7	92.2	100.4	104.4	103.0	98.9	95.1	108.5
50.0	79.9	90.0	98.1	101.9	101.7	98.9	95.1	106.9
55.0	78.4	87.8	95.7	99.8	100.9	98.9	96.0	105.8
60.0	75.9	85.1	93.0	97.5	98.7	97.2	94.6	103.7
65.0	75.0	83.1	90.9	95.5	97.6	96.6	93.7	102.5
70.0	73.9	81.7	89.1	93.9	96.5	95.3	92.6	101.2
75.0	73.0	80.2	87.8	92.1	94.3	93.2	90.6	99.2
80.0	72.6	79.8	86.9	91.4	93.4	92.4	90.0	98.4
85.0	72.1	79.3	86.1	90.3	92.5	91.6	89.0	97.5
90.0	72.1	78.6	85.4	89.4	91.4	89.9	87.2	96.2
95.0	71.1	78.6	84.4	88.3	90.2	88.8	86.6	95.2
100.0	71.1	77.9	83.9	87.6	89.0	87.4	85.7	94.2
105.0	70.5	77.6	83.2	86.6	88.6	87.2	85.3	93.6
110.0	69.9	76.1	82.5	86.0	87.6	86.3	84.4	92.8
115.0	69.3	75.5	81.8	85.6	87.0	85.4	83.8	92.2

MODEL THRUST = 10.307 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	11.4	OCTAVE 22.7	BAND 45.4	SOUND 90.8	PRESSURE 181.6	363.2	LEVELS 715.1	1430.2	2837.6	5675.2	11350.5
5795.6	84.2(83.4)	85.6	66.24	75.64	81.05	80.82	77.84	69.70	61.17	50.68	31.64	-3.38	-61.82
5385.7	89.9(88.8)	90.1	68.35	78.33	85.08	85.78	83.18	75.46	67.57	58.91	43.77	16.54	-29.93
3549.3	92.8(91.3)	92.3	70.03	79.65	86.99	88.09	85.52	78.29	71.61	64.02	51.20	28.59	-4.59
3000.0	95.2(93.5)	94.3	70.55	80.91	88.40	90.49	87.51	80.95	74.66	67.79	56.48	36.91	4.1M
2615.2	96.6(94.6)	95.2	70.05	80.17	88.95	91.56	88.44	82.23	76.79	70.62	60.18	42.73	13.81
2333.6	97.7(95.4)	95.6	69.61	79.69	88.60	91.97	89.58	83.78	78.47	72.46	63.00	47.10	20.94
2121.3	98.2(95.6)	95.3	68.56	79.07	87.33	91.24	89.67	85.16	80.25	74.52	65.64	50.92	26.90
1958.1	98.0(95.1)	94.3	67.40	77.58	85.72	89.47	89.05	85.84	81.09	75.56	67.14	53.32	30.92
1831.2	98.5(95.2)	93.8	66.55	75.94	83.87	87.95	88.89	86.46	82.65	77.28	69.21	56.10	34.95
1732.1	97.2(93.7)	92.2	64.62	73.98	81.61	86.10	87.18	85.29	81.75	76.52	68.72	56.19	35.99
1655.1	96.8(93.2)	91.3	64.03	72.13	79.97	84.47	86.52	85.12	81.38	76.24	68.66	56.52	37.11
1596.3	95.9(92.2)	90.4	63.23	71.03	78.46	83.22	85.71	84.18	80.67	75.61	68.19	56.37	37.55
1552.9	94.1(90.4)	88.6	62.64	69.79	77.38	81.71	83.71	82.36	78.89	73.89	66.59	55.01	36.62
1523.1	93.6(89.7)	88.0	62.37	69.56	76.66	81.09	83.03	81.66	78.49	73.52	66.30	54.89	36.79
1505.7	92.8(89.0)	87.2	62.00	69.21	75.99	80.12	82.25	81.00	77.62	72.67	65.51	54.19	36.26
1500.0	91.2(87.5)	86.1	62.03	68.55	75.31	79.24	81.11	79.36	75.86	70.92	63.77	52.46	34.62
1505.7	90.3(86.4)	84.9	60.97	68.51	74.23	78.18	79.95	78.21	75.23	70.29	63.12	51.80	33.88
1523.1	89.0(85.0)	83.8	60.87	67.66	73.49	77.10	78.63	76.70	74.15	69.19	61.97	50.56	32.66
1552.9	88.4(84.5)	83.1	60.14	67.22	72.76	76.16	78.01	76.28	73.81	68.81	61.31	49.73	31.34
1594.3	87.2(83.3)	82.0	59.31	65.41	71.45	75.29	76.80	75.14	72.60	67.54	60.12	48.30	29.48
1655.1	86.0(82.2)	81.0	58.35	64.42	70.81	74.43	74.45	73.47	71.42	66.29	58.71	46.56	27.19

RUN NUMBER	= 180.00 (737.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1215.000
SECONDARY TEMPERATURE (R)	= 549.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 2.007
VELOCITY RATIO	= .694
PRIMARY VELOCITY (FT/SEC)	= 1359.325
MASS FLOW RATIO	= 3.617
PRIMARY MASS FLOW (LB/SEC)	= .134
THRUST (LBS)	= 20.500
ENVIRONMENTAL TEMPERATURE (R)	= 555.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.740
ENVIRONMENTAL HUMIDITY (PER CENT)	= 16.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.76325E+00	138.9
500	2.18936E-02	113.4
1000	2.35556E-01	123.7
2000	1.45805E+00	131.6
4000	3.51963E+00	135.5
8000	1.61681E+00	132.1
16000	6.38436E-01	128.1
31500	2.72890E-01	124.4

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	165.8
20000	168.8
40000	171.8
80000	174.8

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	92.4	101.1	105.7	107.1	99.2	91.6	86.9	110.6
20.0	92.1	101.7	107.6	109.0	101.6	94.7	90.3	112.3
25.0	91.3	101.9	108.6	110.5	103.8	97.0	92.8	113.6
30.0	90.2	101.0	108.8	111.0	105.4	98.9	94.4	114.2
35.0	89.0	100.1	108.7	111.5	106.2	100.1	95.1	114.5
40.0	86.8	98.7	107.8	111.8	107.0	101.5	97.1	114.6
45.0	85.2	97.1	106.4	111.5	107.7	102.1	97.6	114.3
50.0	83.7	94.5	104.3	109.8	107.0	102.4	98.2	113.0
55.0	81.9	92.2	101.6	107.4	106.0	102.3	98.4	111.3
60.0	80.2	90.5	99.6	105.6	104.3	101.5	97.3	109.7
65.0	79.9	88.6	97.0	103.0	102.4	100.4	96.9	107.9
70.0	78.6	87.6	95.8	101.7	101.5	99.1	96.1	106.6
75.0	79.3	87.3	94.8	100.7	100.0	98.0	95.0	105.4
80.0	78.2	86.0	94.2	99.9	99.1	97.0	94.0	104.5
85.0	78.2	86.0	93.4	97.9	98.0	96.1	93.5	103.3
90.0	77.8	85.5	92.7	96.9	97.0	95.2	92.6	102.4
95.0	77.0	84.9	92.1	95.9	96.5	94.5	92.2	101.7
100.0	76.6	84.8	91.7	95.8	96.0	93.9	91.3	101.3
105.0	75.6	83.8	91.2	95.3	94.6	92.9	90.6	100.4
110.0	75.1	82.9	90.9	95.5	94.2	92.4	90.5	100.2
115.	75.6	81.6	89.9	94.7	93.9	92.5	89.8	99.7

MODEL THRUST = 20.500 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	16.0	OCTAVE 32.0	BAND 64.0	SOUND 128.1	PRESSURE 256.1	LEVELS 512.3	1008.5	2017.0	4002.0	8004.0	16008.0
795.6	84.4(83.9)	85.4	67.55	76.27	80.77	82.00	73.37	63.76	54.20	40.06	14.27	-32.06	-104.96
385.7	89.5(88.8)	89.7	69.67	79.28	85.14	86.33	78.37	70.06	61.98	50.55	30.30	-5.49	-64.41
549.3	93.3(92.4)	92.8	70.70	81.36	87.97	89.71	82.58	74.57	67.41	57.58	40.63	11.09	-37.16
000.0	95.9(94.7)	94.8	71.09	81.94	89.62	91.74	85.74	78.24	71.24	62.47	47.67	22.24	-19.01
615.2	97.8(96.5)	96.4	71.05	82.19	90.72	93.50	87.84	80.79	73.71	65.68	52.40	29.84	-6.50
333.6	99.5(97.9)	97.4	69.94	81.74	90.81	94.73	89.68	83.33	77.02	69.53	57.35	36.91	4.15
121.3	100.5(98.7)	98.0	69.07	81.03	90.24	95.25	91.21	84.87	78.69	71.61	60.27	41.41	11.36
958.1	100.7(98.6)	97.3	68.28	79.15	88.84	94.30	91.26	86.02	80.13	73.37	62.67	45.03	17.06
831.2	100.4(98.1)	96.2	67.08	77.44	86.77	92.54	90.89	86.50	81.08	74.56	64.36	47.67	21.32
732.1	99.5(97.0)	95.0	65.93	76.16	85.27	91.17	89.68	86.30	80.63	74.30	64.49	48.54	23.46
655.1	98.7(95.9)	93.6	66.02	74.72	83.00	88.99	88.71	85.65	80.77	74.59	65.08	49.71	25.41
596.3	97.8(94.9)	92.6	64.99	74.61	82.21	88.01	87.56	84.61	80.32	74.25	64.97	50.04	26.68
552.9	96.9(93.9)	91.7	65.93	73.97	81.38	87.20	86.35	83.84	79.49	73.50	64.40	49.79	26.99
523.1	96.1(93.1)	91.0	65.03	72.78	80.93	86.63	85.58	82.98	78.72	72.79	63.80	49.42	26.99
505.7	95.3(92.1)	89.9	65.13	72.88	80.28	86.26	84.58	82.18	78.31	72.42	63.50	49.24	27.09
500.0	94.4(91.2)	89.0	64.78	72.40	79.59	85.71	83.69	81.36	77.55	71.66	62.76	48.55	26.42
505.7	93.8(90.6)	88.3	63.92	71.83	79.02	85.07	83.15	80.61	77.01	71.11	62.19	47.94	25.74
523.1	93.1(90.0)	87.7	63.57	71.45	78.65	84.66	82.57	79.91	76.68	70.15	61.17	46.78	24.35
552.9	91.8(88.7)	86.7	62.24	70.38	77.79	83.83	80.93	78.78	75.14	69.19	60.05	45.44	22.66
596.3	91.3(88.1)	86.3	61.47	69.25	77.25	83.42	80.31	77.43	74.69	68.62	59.35	44.41	21.06
655.1	90.6(87.3)	85.6	61.88	67.47	75.53	82.45	79.88	77.49	73.88	67.67	57.97	42.59	19.49

RUN NUMBER	= 181.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1210.000
SECONDARY TEMPERATURE (R)	= 543.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 2.007
VELOCITY RATIO	= .767
PRIMARY VELOCITY (FT/SEC)	= 1361.007
MASS FLOW RATIO	= 4.529
PRIMARY MASS FLOW (LB/SEC)	= .130
THRUST (LBS)	= 24.582
ENVIRONMENTAL TEMPERATURE (R)	= 552.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.740
ENVIRONMENTAL HUMIDITY (PER CENT)	= 19.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .063
INSTRUMENTATION NOISE FLOOR (DB)	= 65.564

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.87296E+00	137.7
500	2.93098E-02	114.7
1000	2.14925E-01	123.3
2000	1.09311E+00	130.4
4000	1.74696E+00	132.4
8000	1.54294E+00	131.9
16000	8.[illegible]513E-01	129.3
31500	4.01207E-01	126.0

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	163.8
20000	166.8
40000	169.8
80000	172.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	96.2	101.3	105.4	104.6	100.2	94.8	90.5	109.7
20.0	93.5	101.8	106.4	106.0	102.6	97.8	93.6	111.0
25.0	93.5	102.1	107.7	107.3	104.0	99.8	95.7	112.3
30.0	91.7	100.4	107.8	107.9	105.0	101.3	97.3	112.7
35.0	89.7	99.9	107.4	108.8	106.3	102.5	98.5	113.2
40.0	87.9	98.2	106.4	108.9	107.1	103.4	99.5	113.2
45.0	86.1	95.7	104.7	108.0	107.3	103.7	99.9	112.6
50.0	84.1	93.7	102.7	106.6	106.6	103.6	100.2	111.6
55.0	82.7	91.3	100.2	104.2	105.5	103.3	100.0	110.2
60.0	80.9	89.0	97.7	102.1	103.8	102.1	98.7	108.5
65.0	80.1	87.6	95.9	100.6	102.6	101.3	98.2	107.3
70.0	79.2	86.7	94.3	99.0	101.3	99.8	97.3	106.0
75.0	79.2	85.8	93.0	97.8	100.0	99.0	96.4	104.9
80.0	78.9	85.0	92.2	96.6	98.8	97.3	94.7	103.5
85.0	78.3	84.6	91.6	95.6	97.6	96.6	94.2	102.7
90.0	77.9	84.5	90.8	94.8	97.1	95.7	93.6	102.0
95.0	77.2	83.9	90.3	94.3	96.2	94.6	92.5	101.1
100.0	76.8	83.4	90.0	93.5	95.5	94.3	92.1	100.5
105.0	76.0	83.2	89.5	93.2	95.0	93.5	91.8	100.0
110.0	75.1	81.9	88.8	92.9	94.7	93.5	91.4	99.8
115.0	75.1	80.9	88.4	92.2	94.1	93.1	90.6	99.2

MODEL THRUST = 24.582 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE BAND SOUND PRESSURE LEVELS 17.5	35.1	70.1	140.2	280.5	560.9	1104.3	2209.7	4382.3	R764.6	17529.3
1795.6	83.0(82.5)	83.7		68.57	75.71	79.66	78.56	73.33	65.71	56.02	40.69	12.79	-36.95	-119.60
1885.7	87.9(87.1)	87.5		70.33	78.56	83.17	82.51	78.46	72.04	63.69	51.36	29.52	-8.85	-71.37
1849.3	91.9(90.8)	90.6		72.17	80.77	86.34	85.68	81.87	76.33	68.94	58.39	40.14	8.51	-42.65
1800.0	94.5(93.1)	92.4		71.83	80.53	87.86	87.91	84.44	79.61	72.88	63.50	47.61	20.42	-23.29
1815.2	96.9(95.4)	94.1		71.03	81.15	88.65	89.90	87.02	82.25	75.78	67.21	52.98	28.89	-9.60
1333.6	98.7(96.9)	95.1		70.24	80.45	88.66	91.00	88.90	84.34	78.28	70.32	57.29	35.47	.40
1121.3	99.6(97.6)	95.3		69.24	78.81	87.79	90.95	89.97	85.58	79.77	72.25	60.14	40.03	4.25
1058.1	99.9(97.6)	95.0		67.96	77.47	86.52	90.26	90.05	86.27	80.99	73.82	62.41	43.62	14.05
1031.2	99.6(97.0)	94.1		67.06	75.72	84.55	88.47	89.53	86.62	81.63	74.73	63.86	46.10	19.25
1732.1	96.5(95.8)	92.9		65.76	73.86	82.54	86.44	88.29	85.91	80.98	74.29	63.85	46.88	20.38
1655.1	98.0(95.1)	92.1		65.38	72.91	81.14	85.79	87.53	85.55	80.94	74.42	64.31	47.96	22.50
1596.3	97.1(94.1)	91.0		64.84	72.34	79.92	84.51	86.53	84.44	80.51	74.11	64.26	48.38	23.72
1552.9	96.3(93.2)	90.2		65.07	71.59	78.81	83.53	85.56	83.92	79.89	73.54	63.92	48.39	24.32
1523.1	95.1(92.0)	89.0		64.94	70.97	78.13	82.51	84.48	82.43	78.34	72.10	62.56	47.27	23.60
1505.7	94.6(91.4)	88.3		64.39	70.74	77.65	81.45	83.62	81.43	78.03	71.83	62.36	47.21	23.74
1500.0	93.9(90.7)	87.6		64.09	70.60	76.88	80.89	82.92	80.96	77.42	71.23	61.79	46.69	23.33
1505.7	92.9(89.7)	86.7		63.33	70.03	76.36	80.34	81.97	79.65	76.36	70.15	60.88	45.54	22.11
1523.1	92.1(89.0)	86.0		62.66	69.36	75.95	79.64	81.14	79.37	75.78	69.54	60.00	44.72	21.05
1552.9	91.4(88.3)	85.4		61.85	68.99	75.35	78.93	80.48	78.60	75.22	68.92	59.25	43.72	19.65
1596.3	90.8(87.7)	84.8		60.69	67.44	74.32	78.35	79.99	78.14	74.55	68.10	58.30	42.42	17.76
1655.1	89.7(86.7)	83.9		60.39	66.14	73.44	77.34	79.07	77.37	73.37	66.85	56.74	40.39	14.93

RUN NUMBER	= 1N2.L00
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1233.000
SECONDARY TEMPERATURE (R)	= 550.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 4.654
VELOCITY RATIO	= .365
PRIMARY VELOCITY (FT/SEC)	= 1969.357
MASS FLOW RATIO	= 3.833
PRIMARY MASS FLOW (LB/SEC)	= .138
THRUST (LBS)	= 14.113
ENVIRONMENTAL TEMPERATURE (R)	= 551.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.780
ENVIRONMENTAL HUMIDITY (PER CENT)	= 19.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .028
INSTRUMENTATION NOISE FLOOR (DB)	= 58.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.89784E-01	129.0
500	7.26387E-03	108.6
1000	5.01157E-02	117.0
2000	1.97195E-01	122.9
4000	2.94991E-01	124.7
8000	1.81473E-01	122.6
16000	4.13276E-02	116.2
31500	1.74169E-02	112.4

OVERALL SOUND POWER LEVEL-SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.5
20000	160.5
40000	163.5
80000	166.5

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	82.8	95.4	99.6	99.4	97.1	84.9	75.5	104.3
20.0	87.6	95.8	100.5	100.8	99.2	85.1	76.1	105.4
25.0	87.7	96.0	101.4	102.1	99.4	86.8	77.3	106.4
30.0	85.8	94.2	101.1	102.4	99.3	87.1	79.4	106.3
35.0	84.5	93.4	100.0	102.3	98.7	88.7	80.9	105.8
40.0	82.6	91.2	98.1	100.7	97.8	90.1	83.5	104.3
45.0	80.5	89.2	96.2	98.9	97.0	91.0	85.3	102.9
50.0	78.9	87.3	93.6	96.3	95.7	91.1	86.6	101.0
55.0	77.2	84.9	91.1	93.8	94.0	90.5	86.9	99.1
60.0	76.1	82.8	88.6	91.6	92.5	90.0	86.8	97.5
65.0	75.0	81.0	86.6	89.7	90.6	87.9	85.5	95.6
70.0	73.6	80.0	85.4	88.2	88.8	86.3	84.0	94.1
75.0	73.4	78.9	84.2	87.2	87.7	85.2	82.9	93.0
80.0	72.5	78.2	83.3	85.9	86.5	83.8	82.0	91.9
85.0	71.9	77.3	82.7	85.0	85.3	82.9	81.5	91.0
90.0	71.9	76.6	81.8	84.4	84.6	82.1	80.6	90.2
95.0	71.3	76.2	81.3	83.3	83.8	81.0	80.2	89.4
100.0	71.3	75.8	80.6	82.8	82.8	80.2	79.3	88.7
105.0	70.2	75.1	79.6	81.6	81.7	79.3	78.9	87.7
110.0	69.9	74.6	78.8	81.2	81.3	78.9	78.6	87.2
115.0	69.4	74.4	78.5	80.9	80.7	78.0	78.1	86.8

MODEL THRUST = 14.113 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	13.3	OCTAVE 26.6	BAND 53.1	SOUND 106.3	PRESSURE 212.5	LEVELS 425.0	836.8	1673.6	3320.5	6641.1	13282.2
5795.6	78.5(78.1)	80.8	59.64	72.23	76.37	75.93	73.09	59.39	46.10	34.17	12.28	-27.60	-95.25
4385.7	82.8(82.3)	84.5	66.84	75.07	79.81	79.69	76.82	62.57	50.75	40.94	23.64	-7.27	-59.19
3549.3	86.2(85.5)	87.3	68.73	77.03	82.42	83.05	79.95	66.49	54.67	46.15	31.59	6.00	-36.80
3008.8	87.9(87.0)	88.6	68.33	76.76	83.55	84.43	81.40	68.40	57.76	50.10	37.32	15.23	-21.24
2615.2	89.2(88.1)	89.3	68.24	77.10	83.66	85.91	82.09	71.36	61.92	54.86	43.33	23.69	-8.44
2333.6	89.8(88.3)	88.8	67.27	75.89	82.74	85.27	82.15	73.87	64.75	59.12	48.52	30.67	1.84
2121.3	90.4(88.5)	88.3	66.05	74.75	81.71	84.33	82.30	75.66	68.64	62.36	52.65	35.95	9.24
1950.1	90.3(87.9)	87.1	65.09	73.49	79.82	82.50	81.71	76.57	70.77	64.73	55.34	39.88	15.04
1831.2	89.7(87.0)	85.7	63.98	71.48	77.91	80.55	80.58	76.90	71.71	65.92	56.95	42.30	18.87
1737.1	89.1(86.0)	84.5	63.37	70.08	75.92	78.89	79.53	76.59	72.26	66.57	57.93	43.90	21.58
1655.1	87.8(84.5)	83.1	62.74	68.70	74.24	77.34	78.10	74.91	71.41	65.84	57.45	43.92	22.45
1598.3	86.6(83.2)	81.9	61.65	68.03	73.40	76.14	76.61	73.72	70.36	64.88	56.68	43.52	22.71
1552.9	85.8(82.3)	81.1	61.63	67.17	72.47	75.42	75.78	72.82	69.54	64.13	56.07	43.18	22.86
1523.1	84.8(81.2)	80.1	60.97	66.57	71.70	74.30	74.73	71.66	68.41	63.44	55.48	42.78	22.79
1505.7	84.0(80.3)	79.3	60.47	65.92	71.18	73.45	73.66	70.83	68.42	63.08	55.17	42.59	22.79
1500.0	83.2(79.5)	78.6	60.50	65.12	70.31	72.92	72.91	70.08	67.54	62.21	54.32	41.78	22.05
1505.7	82.4(78.6)	77.7	59.82	64.49	69.78	71.74	72.11	69.89	67.11	61.77	53.86	41.28	21.49
1523.1	81.6(77.6)	76.9	59.72	64.18	69.03	71.15	71.06	69.97	66.14	60.78	52.81	40.12	20.13
1552.9	80.3(76.4)	75.7	58.49	63.39	67.96	69.81	69.70	66.89	64.09	60.07	52.01	39.13	19.21
1596.3	79.4(75.7)	75.0	57.86	62.84	67.42	69.18	69.08	66.25	64.96	59.68	51.28	38.12	17.32
1655.1	78.5(74.6)	74.2	57.15	62.08	66.15	68.58	68.34	65.09	64.09	58.52	50.13	36.59	15.13

RUN NUMBER	= 183.00 (738.00)
AXIAL POSITION OF PRIMARY NNT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1220.000
SECONDARY TEMPERATURE (R)	= 550.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 4.[illegible]
VELOCITY RATIO	= .693
PRIMARY VELOCITY (FT/SEC)	= 1362.119
MASS FLOW RATIO	= 8.475
PRIMARY MASS FLOW (LB/SEC)	= .134
THRUST (LBS)	= 40.235
ENVIRONMENTAL TEMPERATURE (R)	= 540.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.780
ENVIRONMENTAL HUMIDITY (PER CENT)	= 23.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .045
INSTRUMENTATION NOISE FLOOR (DB)	= 62.585

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.43464E+00	133.9
500	8.33334E-02	119.2
1000	3.95147E-01	126.0
2000	7.70406E-01	128.9
4000	5.62053E-01	127.5
8000	3.69463E-01	125.7
16000	1.62613E-01	122.1
31500	9.16230E-02	119.6

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.8
20000	160.8
40000	163.8
80000	166.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.8	104.1	103.9	98.2	91.8	85.4	81.9	108.2
20.0	98.4	105.0	105.9	100.4	94.6	87.4	83.8	109.7
25.0	98.1	104.7	106.8	102.1	96.0	88.6	85.5	110.2
30.0	96.3	103.9	106.4	102.5	96.8	90.2	86.6	109.8
35.0	94.8	102.2	105.3	103.0	98.1	91.7	88.0	109.2
40.0	92.6	100.0	104.1	103.3	99.5	93.5	89.8	108.5
45.0	90.1	97.7	102.3	102.4	100.0	94.8	90.9	107.5
50.0	87.8	94.9	99.9	100.6	99.6	95.1	91.2	105.9
55.0	86.5	93.2	98.1	99.2	98.8	94.8	91.4	104.7
60.0	85.2	91.4	96.5	97.7	97.8	94.7	91.7	103.5
65.0	84.0	91.0	95.5	96.9	97.1	94.4	92.3	102.9
70.0	83.1	89.6	94.3	96.0	96.2	94.0	91.9	102.1
75.0	83.5	89.0	93.4	95.3	95.7	93.5	91.3	101.4
80.0	83.1	84.3	92.3	94.1	94.6	92.5	90.7	100.3
85.0	82.0	87.2	91.8	93.5	94.2	92.4	90.5	100.0
90.0	81.8	86.9	91.0	92.6	93.0	91.0	89.3	98.9
95.0	81.3	86.5	90.4	92.1	92.9	90.8	89.2	98.6
100.0	81.2	85.6	89.6	91.7	92.5	90.6	89.0	98.2
105.0	80.1	84.8	89.3	91.1	91.9	90.6	89.1	97.8
110.0	79.7	84.5	89.3	91.1	91.9	90.3	89.0	97.7
115.0	78.4	83.8	88.1	90.7	91.4	90.1	88.4	97.2

MODEL THRUST = 40.235 FULL SCALE THRUST = 20000.000

L.	PWDR.	OASPL	22.4	OCTAVE 44.9	BAND 89.7	SOUND 179.4	PRESSURE 358.8	LEVELS 717.6	1412.8	2825.7	5606.5	11213.1	22426.2
795.6	76.4(76.1)	80.3	70.87	76.36	75.99	69.91	62.27	52.75	41.94	22.84	-11.56	-71.46	-166.74
385.7	81.9(81.5)	84.2	73.07	79.65	80.90	74.64	67.95	58.34	49.21	34.03	7.27	-38.79	-111.62
549.3	85.4(84.9)	86.5	74.60	81.17	83.20	78.21	71.44	62.10	54.54	41.68	19.45	-18.40	-77.91
000.0	87.2(86.5)	87.6	76.23	81.88	84.28	80.13	73.84	65.01	58.29	46.96	27.70	-4.75	-55.52
615.2	89.0(88.2)	88.1	73.92	81.34	84.39	81.94	77.06	68.68	61.78	51.44	34.26	5.59	-39.05
333.6	90.5(89.6)	88.4	72.74	80.14	84.16	83.27	78.90	71.65	65.04	55.55	39.91	14.00	-26.16
121.3	91.3(89.9)	88.1	71.10	78.66	83.22	83.18	80.37	74.01	67.40	58.51	44.02	20.19	-16.59
958.1	91.3(89.8)	87.1	69.44	76.60	81.54	82.12	80.69	75.09	68.81	60.37	46.76	24.53	-9.64
831.2	91.3(89.6)	86.5	68.74	75.47	80.32	81.29	80.48	75.53	69.84	61.75	48.83	27.85	-4.31
732.1	91.0(89.1)	85.7	67.93	74.16	79.23	80.24	79.98	75.95	70.79	62.98	50.59	30.58	.01
655.1	91.1(89.0)	85.5	67.18	74.10	78.61	79.90	79.74	76.10	71.92	64.32	52.35	33.10	3.75
596.3	90.8(88.6)	84.9	66.59	73.03	77.72	79.30	79.21	76.16	72.03	64.60	52.95	34.28	5.86
552.9	90.5(88.2)	84.6	67.23	72.71	77.02	78.82	78.96	75.91	71.76	64.45	53.04	34.79	7.06
523.1	89.6(87.3)	83.5	67.00	68.14	76.14	77.83	78.03	75.12	71.35	64.12	52.87	34.91	7.66
505.7	89.5(87.1)	83.3	65.94	71.11	75.72	77.35	77.71	74.11	71.29	64.11	52.95	35.17	8.20
800.0	88.6(86.0)	82.4	65.01	70.87	74.94	76.46	76.57	73.72	70.19	63.03	51.98	34.17	7.29
505.7	88.1(85.7)	82.0	65.29	70.45	74.37	75.90	76.43	73.44	70.04	62.85	51.78	33.91	6.94
523.1	87.6(85.2)	81.5	65.02	69.42	73.67	75.41	75.93	73.17	69.67	62.44	51.19	33.23	5.98
552.9	87.0(84.5)	80.8	63.77	68.46	72.91	74.59	75.09	72.97	69.56	62.24	50.83	32.58	4.96
596.3	86.7(84.2)	80.5	63.13	67.98	72.75	74.35	74.90	72.37	69.11	61.68	50.03	31.35	2.94
655.1	85.7(83.3)	79.6	61.42	66.90	71.19	73.72	74.25	71.83	68.07	60.48	48.51	29.26	.39

RUN NUMBER	= 184.00 (739)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1227.000
SECONDARY TEMPERATURE (R)	= 555.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 4.456
VELOCITY RATIO	= .772
PRIMARY VELOCITY (FT/SEC)	= 1366.021
MASS FLOW RATIO	= 9.036
PRIMARY MASS FLOW (LB/SEC)	= .130
THRUST (LBS)	= 47.419
ENVIRONMENTAL TEMPERATURE (R)	= 548.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.760
ENVIRONMENTAL HUMIDITY (PER CENT)	= 27.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .063
INSTRUMENTATION NOISE FLOOR (DB)	= 85.566

JUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.60815E+00	136.6
500	1.53114E-01	121.9
1000	7.77792E-01	128.9
2000	1.55267E+00	131.9
4000	1.03988E+00	130.2
8000	6.36884E-01	128.0
16000	2.96000E-01	124.7
31500	1.51206E-01	121.8

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	159.9
20000	162.9
40000	165.9
80000	168.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	101.4	106.5	107.1	101.0	94.1	88.5	84.6	111.0
20.0	101.8	108.0	108.6	103.2	96.5	90.7	86.5	112.5
25.0	100.8	107.9	109.5	104.1	98.6	92.6	89.3	113.0
30.0	99.2	106.9	109.7	105.8	100.2	94.6	90.7	113.1
35.0	97.0	105.7	109.5	106.6	102.2	96.6	92.4	113.0
40.0	94.4	102.9	107.1	106.0	102.9	97.8	93.6	111.5
45.0	92.4	100.4	105.2	105.4	103.0	98.5	94.5	110.4
50.0	90.1	97.5	102.9	103.5	102.0	98.3	94.6	108.7
55.0	88.0	95.5	100.6	101.6	101.0	98.2	95.1	107.2
60.0	87.0	93.5	98.8	100.1	100.1	97.7	94.3	105.9
65.0	86.1	92.3	97.2	98.8	98.7	95.[illegible]	93.3	104.5
70.0	86.0	92.1	96.2	97.7	97.8	96.0	93.6	103.9
75.0	85.5	91.0	95.8	97.6	97.5	95.5	93.0	103.5
80.0	85.8	90.5	94.5	96.2	96.3	94.4	92.0	102.3
85.0	84.8	89.9	93.8	95.5	95.6	93.8	92.0	101.7
90.0	84.1	89.4	93.4	94.7	95.2	93.4	91.5	101.2
95.0	83.2	88.3	92.5	94.2	94.8	92.9	90.9	100.6
100.0	83.2	87.9	92.1	93.6	93.9	92.1	90.2	99.9
105.0	82.5	87.6	91.6	93.1	93.6	92.0	90.0	99.6
110.0	81.1	86.7	91.3	92.9	93.2	91.6	89.5	99.2
115.0	80.1	86.0	91.0	92.7	92.9	91.0	89.0	98.8

MODEL THRUST = 47.419 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 24.3	48.7	97.4	[illegible].8	389.5	779.1	1533.8	3067.6	6086.6	12173.1	24346.2
5795.6	79.8(79.6)	82.3	72.98	77.99	78.45	71.85	63.58	54.57	42.60	22.06	-14.78	-78.37	-174.40
4385.7	84.8(84.5)	86.3	75.72	81.91	82.40	76.67	68.68	60.50	50.25	33.98	5.37	-43.48	-119.90
3549.3	88.1(87.6)	88.6	76.59	83.68	85.20	79.44	73.16	65.06	56.81	43.07	19.34	-20.76	-83.14
3000.0	90.5(89.9)	90.2	76.50	84.18	86.90	82.73	76.44	69.05	61.01	48.92	28.61	-5.95	-59.14
2615.2	92.7(91.8)	91.2	75.45	84.14	87.91	84.75	79.77	72.59	64.79	53.88	35.61	5.27	-41.52
2333.6	93.3(92.3)	90.6	73.89	82.30	86.43	85.17	81.53	75.02	67.57	57.51	40.88	13.49	-24.56
2121.3	94.0(92.7)	90.3	72.67	80.64	85.42	85.40	82.53	76.73	69.81	60.39	45.00	19.83	-14.69
1958.1	93.7(92.3)	89.2	71.04	78.49	83.80	84.24	82.30	77.44	70.97	62.05	47.61	24.14	-11.64
1831.2	93.5(91.9)	88.2	69.60	77.03	82.07	82.98	81.91	78.00	72.35	63.81	50.12	27.98	-5.68
1732.1	93.1(91.3)	87.3	69.05	75.56	80.74	81.92	81.52	77.67	72.51	64.06	50.95	29.84	-2.16
1655.1	92.2(90.4)	86.4	68.54	74.70	79.62	81.05	80.57	76.77	71.85	63.84	51.17	30.47	.16
1596.3	92.1(90.1)	86.0	68.72	74.40	78.89	80.28	80.02	77.26	72.59	64.76	52.44	32.75	3.03
1552.9	92.0(90.0)	85.9	69.53	73.97	78.77	80.36	79.96	77.04	72.33	64.63	52.56	33.33	4.33
1523.1	91.1(89.0)	84.9	68.99	73.63	77.63	79.21	78.91	76.05	71.59	63.98	52.08	33.16	4.66
1505.7	90.7(88.5)	84.3	68.05	73.19	76.97	78.42	78.35	75.64	71.23	64.17	52.38	33.64	5.43
1500.0	90.2(88.0)	83.9	67.42	72.65	76.46	77.85	77.98	75.27	71.30	63.76	52.00	33.32	5.20
1505.7	89.6(87.4)	83.2	66.49	71.57	75.47	77.29	77.61	74.72	70.82	63.06	51.27	32.53	4.32
1523.1	88.7(86.5)	82.4	66.39	71.01	75.18	76.57	76.55	73.78	69.79	62.18	50.29	31.37	2.98
1552.9	88.2(86.0)	81.9	65.44	70.41	74.51	75.94	76.42	73.48	69.41	61.71	49.64	30.41	1.91
1594.3	87.4(85.3)	81.3	63.86	69.64	74.00	75.44	75.39	72.60	68.47	60.64	48.32	28.63	-1.09
1655.1	86.6(84.6)	80.6	62.52	68.67	73.42	74.35	74.75	71.91	67.54	59.53	46.87	26.57	-4.14

RUN NUMBER	= 1N5.00 (B15.00)
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1227.000
SECONDARY TEMPERATURE (R)	= 545.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 9.788
VELOCITY RATIO	= .364
PRIMARY VELOCITY (FT/SEC)	= 1366.021
MASS FLOW RATIO	= 7.670
PRIMARY MASS FLOW (LB/SEC)	= .138
THRUST (LBS)	= 22.265
ENVIRONMENTAL TEMPERATURE (R)	= 544.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.740
ENVIRONMENTAL HUMIDITY (PER CENT)	= 30.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .036
INSTRUMENTATION NOISE FLOOR (DB)	= 88.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.52252E+00	131.8
500	1.24937E-02	111.0
1000	6.78521E-02	118.3
2000	2.58963E-01	124.1
4000	4.93721E-01	126.9
8000	4.45279E-01	126.5
16000	1.73403E-01	122.4
31500	7.08061E-02	118.5

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.3
20000	161.4
40000	164.4
80000	167.4

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	89.4	95.9	98.2	98.6	97.4	90.2	84.2	106.2
20.0	89.1	96.5	100.4	100.6	99.9	92.2	85.4	106.9
25.0	88.4	96.1	101.4	102.5	100.8	92.6	86.3	107.0
30.0	87.7	95.3	101.5	103.6	101.4	94.3	88.2	107.6
35.0	86.3	94.6	101.4	104.3	101.8	95.1	89.6	108.0
40.0	84.6	93.0	99.7	103.9	102.7	97.1	91.3	107.9
45.0	83.3	91.0	98.3	101.9	101.9	97.5	92.3	106.7
50.0	81.9	89.4	95.8	99.6	100.6	97.5	92.6	105.2
55.0	79.7	87.5	93.7	97.7	99.3	97.0	92.7	103.9
60.0	79.0	85.3	91.6	95.4	97.2	95.5	92.4	102.0
65.0	78.1	84.3	90.3	94.1	196.0	93.8	90.8	100.6
70.0	77.0	83.3	88.8	92.5	94.2	92.1	89.3	99.0
75.0	76.1	82.4	87.4	91.3	93.0	91.3	88.9	97.9
80.0	76.8	81.5	86.8	90.2	91.8	89.6	87.6	96.7
85.0	75.9	80.9	86.2	89.4	90.6	88.6	86.8	95.8
90.0	75.1	80.6	85.3	88.3	89.5	87.1	85.6	94.7
95.0	74.3	80.2	84.9	87.4	88.4	86.0	85.1	93.8
100.0	74.5	79.8	83.9	86.6	87.2	85.0	84.9	93.0
105.0	73.6	78.8	83.3	86.1	86.7	84.7	84.5	92.5
110.0	73.3	78.2	82.4	85.1	85.8	84.3	84.3	91.8
115.0	72.2	77.3	82.4	84.8	85.2	83.4	83.8	91.3

MODEL THRUST = 22.265 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 16.7	33.4	66.7	133.5	266.9	533.8	1051.0	2102.0	4170.7	8341.3	16692.6
1795.6	78.1(77.6)	78.5	64.18	70.73	73.49	73.06	71.13	61.81	50.69	36.02	9.29	-38.57	-117.61
1385.7	83.6(82.9)	82.8	66.39	73.69	77.62	77.62	76.33	67.05	56.33	44.58	23.54	-13.41	-73.95
1849.3	87.0(86.1)	85.8	67.50	75.18	80.40	81.38	79.17	69.93	60.29	50.14	32.61	2.14	-47.43
1808.0	89.5(88.4)	87.9	68.29	75.84	82.01	83.93	81.36	73.20	64.45	55.41	40.13	13.91	-28.45
1615.2	91.5(90.2)	89.5	68.04	76.10	83.12	85.45	83.05	75.41	67.59	59.33	45.62	22.34	-14.93
1333.6	93.4(91.8)	90.3	67.38	75.76	82.39	86.52	84.96	78.53	70.70	63.00	50.44	29.38	-4.24
2121.3	93.8(91.9)	89.8	66.84	74.54	81.83	85.34	85.01	79.84	72.83	65.56	53.87	34.45	3.62
1958.1	93.7(91.5)	89.0	66.16	73.67	80.03	83.69	84.52	80.68	74.07	67.12	56.11	37.95	9.26
1831.2	93.3(90.9)	88.2	64.49	72.34	78.51	82.39	83.81	80.80	74.95	68.76	57.77	40.59	12.57
1732.1	92.3(89.5)	86.8	64.31	70.64	76.90	80.59	82.20	79.62	75.21	68.72	58.63	42.22	14.50
1655.1	91.4(88.6)	85.9	63.79	70.01	76.03	79.72	81.37	78.60	74.14	67.81	58.03	42.22	17.51
1596.3	90.3(87.3)	84.6	63.08	69.37	74.79	78.46	79.96	77.23	73.08	66.86	57.33	41.97	18.03
1552.9	89.5(86.4)	83.8	62.40	68.67	73.65	77.43	78.95	76.70	72.92	66.80	57.44	42.42	19.04
1523.1	88.5(85.3)	82.8	61.26	67.92	73.26	76.59	77.96	75.10	71.83	65.76	56.52	41.73	18.75
1505.7	87.5(84.3)	81.9	62.42	67.49	72.75	75.80	76.83	74.29	71.16	65.12	55.96	41.30	19.55
1500.0	86.4(83.2)	80.9	51.68	67.19	71.84	74.83	75.76	72.83	70.05	64.03	54.89	40.28	17.60
1505.7	85.6(82.1)	80.0	60.79	66.68	71.40	73.89	74.61	71.64	68.65	63.62	54.25	39.40	15.84
1523.1	84.5(81.0)	79.0	60.99	66.26	70.30	72.74	73.32	70.02	67.10	63.11	53.68	39.09	16.10
1552.9	83.7(80.3)	78.3	59.90	65.02	69.52	72.27	72.71	70.00	68.52	62.39	53.03	38.01	14.64
1596.3	82.9(79.2)	77.3	59.33	64.20	68.36	71.02	71.52	69.40	66.06	61.84	52.31	36.95	13.01
1655.1	81.9(78.2)	76.5	57.96	63.04	68.04	70.41	70.57	68.22	67.17	60.86	51.06	35.25	10.54

RUN NUMBER	= 186.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1215.000
SECONDARY TEMPERATURE (R)	= 540.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 9.788
VELOCITY RATIO	= .642
PRIMARY VELOCITY (FT/SEC)	= 1359.325
MASS FLOW RATIO	= 17.684
PRIMARY MASS FLOW (LB/SEC)	= .132
THRUST (LBS)	= 73.596
ENVIRONMENTAL TEMPERATURE (R)	= 539.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.760
ENVIRONMENTAL HUMIDITY (PER CENT)	= 26.000
CALIBRATION FACTOR (INV TO DY/SQ CM)	= .056
INSTRUMENTATION NOISE FLOOR (DB)	= 64.590

ISTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.40686E+00	137.3
500	2.25544E-01	123.5
1000	7.90362E-01	129.0
2000	1.25390E+00	131.0
4000	1.28290E+00	131.1
8000	1.11312E+00	130.5
16000	5.23036E-01	127.2
31500	2.17993E-01	123.4

OVERALL SOUND POWER LEVEL+SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.7
20000	161.7
40000	164.7
80000	167.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	105.5	107.0	104.0	99.3	95.5	91.0	88.0	110.5
20.0	103.1	107.8	105.8	101.6	99.8	94.6	90.5	111.6
25.0	101.6	107.2	107.1	103.1	100.6	96.1	91.8	111.9
30.0	99.9	106.1	107.2	104.4	101.6	97.2	93.4	111.8
35.0	97.8	104.8	107.2	104.4	103.7	98.7	94.1	112.2
40.0	95.5	102.5	106.2	104.4	104.4	99.9	95.2	111.7
45.0	93.9	100.1	104.9	104.2	105.3	101.3	96.6	111.4
50.0	92.7	98.9	103.3	103.0	105.1	101.4	97.0	110.6
55.0	91.4	96.8	101.8	103.7	104.4	101.5	97.6	109.6
60.0	90.1	96.2	100.3	102.5	103.2	100.6	96.1	108.5
65.0	89.4	94.9	99.2	101.2	101.8	99.1	95.3	107.2
70.0	90.1	94.9	98.7	100.3	100.6	98.0	94.6	106.3
75.0	89.2	94.1	97.9	99.3	99.6	97.1	93.9	105.4
80.0	89.7	94.0	97.2	98.4	98.8	96.1	93.4	104.7
85.0	88.9	93.0	96.7	98.0	97.9	95.4	92.2	104.0
90.0	88.0	92.2	95.7	97.2	97.1	94.6	91.8	103.2
95.0	87.5	91.9	95.7	96.6	96.5	94.0	91.4	102.7
100.0	86.3	91.4	94.8	95.5	95.7	93.2	90.9	101.9
105.0	86.0	90.6	94.1	95.2	95.4	92.9	90.3	101.4
110.0	85.7	90.5	93.7	94.8	95.0	93.0	90.4	101.2
115.0	85.0	89.7	93.4	94.5	95.1	92.7	90.2	100.9

MODEL THRUST = 73.596 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	30.3	OCTAVE 60.7	BAND 121.3	SOUND 242.6	PRESSURE 485.3	LEVELS 970.6	1910.8	3821.7	7582.7	15165.4	30329.7
795.6	76.8(76.7)	79.8	73.15	76.57	73.36	67.95	62.34	53.18	39.85	14.91	-29.13	-103.28	-216.44
685.7	82.3(82.1)	83.3	75.12	79.77	77.62	72.93	68.69	60.97	49.14	29.53	-4.52	-61.36	-147.73
549.3	85.9(85.6)	85.4	75.52	81.03	80.78	76.42	72.73	65.62	54.79	38.35	10.22	-36.35	-106.82
800.0	88.5(88.0)	86.7	75.21	81.38	82.39	79.30	75.47	68.71	59.58	45.22	20.97	-18.86	-78.86
615.2	91.2(90.6)	88.3	74.31	81.32	83.65	82.54	78.96	71.85	62.62	49.72	28.21	-6.90	-55.41
533.6	92.4(91.7)	88.6	73.03	79.98	83.58	83.55	80.81	74.47	65.62	53.78	34.26	2.61	-44.75
121.3	93.7(92.8)	89.0	72.28	78.40	83.15	84.19	82.60	76.93	68.42	57.38	39.36	10.32	-33.00
958.1	94.2(93.1)	88.8	71.76	77.97	82.26	83.76	83.21	77.98	70.03	59.62	42.75	15.71	-24.51
831.2	94.3(93.1)	88.4	71.06	76.44	81.31	83.03	83.16	78.79	71.62	61.69	45.72	20.24	-17.57
732.1	93.7(92.5)	87.7	70.20	76.26	80.35	82.32	82.51	78.51	70.87	61.31	46.05	21.78	-14.14
655.1	93.0(91.6)	86.9	69.95	75.60	79.64	81.63	81.51	77.45	70.76	61.49	46.77	23.45	-11.01
596.3	92.5(91.0)	86.4	70.98	75.72	79.43	80.95	80.70	76.82	70.51	61.47	47.17	24.57	-8.77
552.9	91.9(90.4)	85.8	70.26	75.48	78.89	80.11	79.93	76.15	70.25	61.37	47.37	25.31	-7.21
523.1	91.4(89.8)	85.3	70.92	75.24	78.33	79.66	79.27	75.43	70.00	61.23	47.44	25.75	-6.21
505.7	90.6(89.1)	84.6	70.26	74.30	77.93	79.08	78.55	74.77	69.93	60.23	45.56	25.08	-6.54
500.0	89.9(88.3)	83.9	69.37	73.60	77.01	78.36	77.77	74.00	69.56	59.48	46.26	24.85	-6.66
505.7	89.3(87.7)	83.4	68.84	73.10	76.48	77.87	77.11	73.43	69.08	59.38	45.72	24.23	-7.39
523.1	88.6(86.8)	82.6	67.52	72.40	75.62	76.93	76.14	72.51	67.47	58.70	44.92	23.22	-8.74
542.9	87.8(86.2)	81.8	67.11	71.70	75.09	76.33	75.74	72.00	66.60	57.72	43.73	21.64	-10.86
596.3	87.2(85.6)	81.2	66.49	71.31	74.49	75.89	75.10	71.78	66.35	57.31	43.01	20.41	-12.43
655.1	86.4(85.1)	80.6	65.52	70.15	73.87	75.26	74.81	71.67	65.47	56.34	41.82	18.30	-14.18

RUN NUMBER	= 187.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1215.000
SECONDARY TEMPERATURE (R)	= 552.000
PRIMARY PRESSURE RATIO	= 1.400
AREA RATIO	= 9.788
VELOCITY RATIO	= .774
PRIMARY VELOCITY (FT/SEC)	= 1359.325
MASS FLOW RATIO	= 21.851
PRIMARY MASS FLOW (LB/SEC)	= .123
THRUST (LBS)	= 93.287
ENVIRONMENTAL TEMPERATURE (R)	= 542.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.760
ENVIRONMENTAL HUMIDITY (PER CENT)	= 77.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .089
INSTRUMENTATION NOISE FLOOR (DB)	= 68.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.00338E+01	140.0
500	4.36633E-01	126.4
1000	1.59915E+00	132.0
2000	2.36419E+00	133.7
4000	2.16643E+00	133.4
8000	1.95370E+00	132.9
16000	1.04352E+00	130.2
31500	4.70212E-01	126.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.3
20000	163.3
40000	166.3
80000	169.3

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	106.2	110.0	107.4	101.8	98.2	93.8	90.9	113.4
20.0	105.9	111.4	109.1	104.5	101.7	97.7	93.9	114.9
25.0	105.2	110.9	110.4	105.7	102.9	99.1	95.5	115.2
30.0	102.5	109.0	110.0	106.8	104.5	100.7	96.9	114.6
35.0	101.7	107.8	110.0	106.4	106.0	102.3	98.2	114.9
40.0	99.0	105.6	109.2	108.9	107.2	103.4	99.0	114.6
45.0	95.9	103.4	107.2	107.9	107.3	103.8	99.4	113.6
50.0	95.1	101.7	106.0	107.4	107.1	104.0	99.9	113.0
55.0	93.3	99.6	104.2	105.8	106.1	103.2	99.4	111.6
60.0	92.3	98.4	102.9	104.6	105.3	103.0	99.4	110.8
65.0	92.5	97.5	101.4	103.1	104.0	102.1	98.6	109.5
70.0	91.7	96.8	100.5	102.2	102.9	100.8	97.9	108.6
75.0	91.6	95.9	99.8	101.6	101.8	99.9	97.1	107.8
80.0	91.4	95.7	99.6	101.1	101.4	99.4	96.5	107.3
85.0	90.6	95.1	98.8	100.5	101.0	98.9	96.0	106.8
90.0	90.3	94.8	98.2	99.7	100.2	98.3	95.8	106.1
95.0	89.9	94.4	98.0	99.2	99.8	97.9	95.1	105.7
100.0	89.6	93.9	97.6	98.6	99.6	97.9	95.2	105.4
105.0	89.3	93.8	97.1	98.5	99.3	97.8	95.2	105.2
110.0	88.0	93.3	96.7	98.1	99.2	97.5	94.6	104.9
115.0	87.5	92.1	96.3	97.9	99.4	97.5	94.5	104.7

MODEL THRUST = 93.287 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE 34.1	BAND 68.3	136.6	SOUND 273.2	PRESSURE 546.4	LEVELS 1092.7	2151.3	4302.7	8537.0	17074.1	34148.1
795.6	79.5	79.4	81.7	74.80	78.45	75.62	69.22	63.43	53.71	39.02	11.36	-36.99	-117.24	-237.67
685.7	85.0	84.6	85.5	76.92	82.31	79.81	74.67	70.19	62.07	49.38	27.72	-9.59	-71.05	-162.92
649.3	88.4	88.2	87.7	78.04	83.66	83.07	77.88	73.71	66.62	55.75	37.64	6.87	-43.44	-118.35
588.0	90.5	90.1	88.4	76.85	83.23	84.15	80.51	77.08	70.52	60.57	44.80	18.33	-24.66	-88.44
515.2	93.1	92.5	89.8	77.17	83.29	85.40	83.39	80.04	73.86	64.50	50.38	26.92	-10.95	-66.93
533.6	94.5	93.9	90.4	75.47	82.05	85.55	84.95	82.35	76.38	67.25	54.32	33.07	-1.04	-51.32
521.3	94.9	94.1	90.0	73.19	80.68	84.45	84.94	83.41	77.42	69.19	57.17	37.57	6.29	-39.69
458.1	95.5	94.6	90.1	73.10	79.69	83.93	85.04	84.05	79.08	71.01	59.68	41.36	12.25	-30.42
431.2	95.1	94.1	89.3	71.95	78.19	82.68	84.09	83.64	79.01	71.50	60.71	43.38	15.97	-24.13
432.1	95.1	93.9	88.9	71.37	77.43	81.99	83.35	83.44	79.49	72.40	62.03	45.48	19.39	-18.70
495.1	94.4	93.2	88.0	71.95	76.94	80.77	82.26	82.54	79.06	72.27	62.23	46.28	21.71	-15.32
506.3	93.9	92.6	87.4	71.49	76.62	80.18	81.72	81.81	78.16	72.08	62.49	46.80	22.52	-12.83
552.9	93.3	92.0	86.9	71.63	75.93	79.79	81.37	81.00	77.62	71.69	62.08	46.93	23.23	-11.23
529.1	93.1	91.7	86.6	71.59	75.90	79.67	80.99	80.78	77.32	71.31	61.83	46.91	23.61	-10.26
505.7	92.7	91.3	86.2	70.92	75.37	79.07	80.50	80.42	76.97	70.97	61.56	46.78	23.71	-9.80
500.9	92.1	90.7	85.5	70.61	75.11	78.44	79.71	79.68	76.43	70.81	61.43	46.69	23.70	-9.70
505.7	91.6	90.2	85.1	70.21	74.69	78.18	79.16	79.26	75.91	70.10	60.69	45.91	22.84	-10.47
523.1	91.2	89.8	84.8	69.86	74.11	77.72	78.66	78.89	75.78	71.05	60.57	45.85	22.35	-11.51
542.9	90.8	89.4	84.2	69.30	73.86	77.65	78.19	78.45	75.50	69.78	60.17	45.82	21.32	-13.15
586.8	90.2	88.8	83.7	67.76	73.10	76.42	77.42	78.13	75.06	69.80	59.01	43.52	19.24	-16.10
655.1	89.7	89.4	83.1	66.97	71.55	75.48	77.08	77.94	74.51	64.16	58.11	42.16	17.10	-19.43

RUN NUMBER	= 188.00 (816.00)
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= NONE
PRIMARY TEMPERATURE (R)	= 1250.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 1863.510
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= .218
THRUST (LBS)	= 12.636
ENVIRONMENTAL TEMPERATURE (R)	= 523.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 15.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .159
INSTRUMENTATION NOISE FLOOR (DB)	= 73.591

JUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.22391E+01	145.1
500	1.78513E-02	112.5
1000	1.65699E-01	122.2
2000	1.47886E+00	131.7
4000	6.23275E+00	137.9
8000	1.23852E+01	140.9
16000	8.53071E+00	139.3
31500	3.42801E+00	135.4

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	174.1
20000	177.1
40000	180.1
80000	183.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	89.4	96.7	101.0	102.2	102.8	100.6	98.3	108.6
20.0	90.5	99.1	104.9	108.2	110.1	109.4	105.7	115.2
25.0	89.8	99.6	107.3	111.7	114.8	114.2	109.2	119.4
30.0	89.1	99.3	108.6	113.1	116.0	115.6	110.6	120.6
35.0	88.6	99.1	108.8	113.7	116.3	115.5	110.9	120.9
40.0	87.6	98.2	108.9	115.1	117.7	116.2	111.8	121.9
45.0	86.0	96.6	108.0	114.9	116.8	113.9	109.1	120.7
50.0	83.1	93.8	105.5	113.5	116.5	112.7	108.4	119.8
55.0	80.9	92.0	103.1	111.9	116.0	112.7	108.2	119.2
60.0	80.3	89.6	100.0	108.5	112.8	111.2	107.6	116.6
65.0	78.8	87.1	96.5	104.3	108.9	109.2	106.3	113.7
70.0	78.0	86.5	94.2	101.4	105.8	106.4	104.2	111.0
75.0	78.0	85.4	92.8	98.8	103.6	105.2	104.0	109.6
80.0	78.0	85.0	92.8	98.3	102.4	103.3	101.7	108.0
85.0	77.1	84.5	92.4	97.8	101.3	102.3	101.2	107.1
90.0	77.1	85.4	92.2	96.7	100.6	101.6	100.6	106.4
95.0	77.1	85.0	91.8	95.9	99.3	100.1	99.5	105.2
100.0	76.1	84.1	91.1	95.3	98.8	100.2	98.9	104.9
105.0	76.1	83.6	90.6	94.6	98.0	99.4	98.5	104.2
110.0	77.1	83.6	90.1	94.0	97.5	99.2	98.2	103.9
115.0	74.9	82.0	89.1	93.5	96.8	99.2	97.9	103.5

MODEL THRUST = 12.636 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	12.6	OCTAVE 25.1	BAND 50.3	SOUND 100.5	PRESSURE 201.1	LEVELS 402.2	791.8	1583.5	3141.9	6283.8	12547.6
3795.8	87.2(85.9)	85.0	66.66	73.96	78.25	79.25	79.38	75.73	70.41	58.97	38.13	.01	-65.04
3385.7	97.9(96.3)	94.0	76.19	78.80	84.52	87.77	89.31	87.48	81.12	71.73	55.22	25.65	-24.31
3549.3	104.7(102.8)	100.1	71.38	81.19	88.77	93.16	95.95	94.50	87.29	79.12	65.19	40.69	-.31
3080.0	108.0(105.8)	103.0	72.15	82.34	91.56	95.97	98.64	97.51	90.73	83.36	71.12	49.95	14.83
2815.2	109.7(107.2)	104.6	72.84	83.30	92.94	97.81	100.22	98.79	92.60	85.79	74.74	55.89	24.69
2333.6	111.7(109.1)	106.7	72.75	83.44	94.04	100.20	102.60	100.51	94.71	88.31	78.12	60.99	33.00
2121.3	111.0(108.3)	106.4	71.99	82.59	93.98	100.81	102.52	99.13	93.07	86.98	77.45	61.60	35.49
1958.1	111.1(108.3)	106.2	69.83	80.49	92.19	100.17	102.94	98.72	93.21	87.36	78.33	63.47	39.50
1831.2	111.2(108.3)	106.1	68.23	79.25	90.43	99.09	103.03	99.33	93.74	88.07	79.43	64.34	42.73
1732.1	109.9(106.5)	104.1	68.07	77.42	87.78	96.18	100.39	98.32	93.66	88.14	79.81	66.31	44.77
1655.1	108.1(104.5)	101.5	67.02	75.31	84.70	92.42	96.87	96.75	92.88	87.47	79.38	66.35	45.63
1596.3	106.0(102.1)	99.1	66.50	74.96	82.64	89.79	94.06	94.35	91.10	85.78	77.86	65.19	45.10
1552.9	105.2(101.0)	98.0	66.74	74.09	81.49	87.51	92.19	93.36	91.24	85.98	78.20	65.79	46.16
1523.1	103.6(99.5)	96.6	66.91	73.85	81.45	87.13	91.13	91.63	89.11	83.89	76.20	63.97	44.85
1505.7	102.9(98.8)	95.9	66.10	73.53	81.36	86.74	90.11	90.75	88.73	83.54	75.90	63.78	44.66
1500.0	102.3(98.1)	95.2	66.13	74.39	81.23	85.72	89.45	90.08	88.14	82.96	75.34	63.25	44.18
1505.7	101.1(96.8)	94.0	66.10	73.95	80.75	84.84	88.10	88.56	87.07	81.88	74.24	62.12	42.99
1523.1	100.4(96.5)	93.5	66.47	72.38	79.99	84.11	87.51	88.53	86.32	81.10	73.41	61.18	41.87
1552.9	99.7(95.5)	92.6	66.80	72.36	79.35	83.25	86.50	87.55	85.72	80.45	72.87	60.26	40.84
1596.3	99.1(95.0)	92.0	65.59	72.11	78.62	82.41	85.21	87.09	85.15	79.83	71.91	59.24	39.15
1655.1	98.5(94.4)	91.3	63.09	70.21	77.21	81.51	84.76	86.75	84.49	79.08	70.99	57.96	37.24

RUN NUMBER	= 189.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1236.000
SECONDARY TEMPERATURE (R)	= 585.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .393
PRIMARY VELOCITY (FT/SEC)	= 1853.044
MASS FLOW RATIO	= .777
PRIMARY MASS FLOW (LM/SEC)	= .220
THRUST (LBS)	= 16.527
ENVIRONMENTAL TEMPERATURE (R)	= 569.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 16.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .126
INSTRUMENTATION NOISE FLOOR (DB)	= 71.587

ISTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.33347E+01	143.7
500	3.89755E-02	115.9
1000	3.16787E-01	125.0
2000	1.81779E+00	132.6
4000	4.64470E+00	136.7
8000	7.88775E+00	139.0
16000	6.16754E+00	137.9
31500	2.46240E+00	133.9

OVERALL SOUND POWER LEVEL-SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	171.5
20000	174.5
40000	177.5
80000	180.5

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	93.8	100.9	104.0	104.1	103.9	102.4	97.0	110.5
20.0	94.1	102.3	107.0	108.6	111.3	110.6	104.7	116.2
25.0	94.0	103.0	109.2	111.5	113.6	112.9	106.7	118.6
30.0	93.0	102.8	109.7	111.9	114.0	113.4	108.5	119.1
35.0	92.5	102.0	110.0	112.9	114.0	113.3	109.5	119.4
40.0	90.3	100.6	109.7	113.7	114.8	114.1	110.1	120.0
45.0	88.7	98.7	108.0	113.2	115.0	113.4	109.0	119.5
50.0	86.9	96.8	106.0	112.0	114.7	112.5	107.9	118.7
55.0	85.3	94.6	103.2	109.9	113.5	111.2	106.9	117.2
60.0	82.5	91.2	100.0	106.5	110.7	109.6	106.0	114.9
65.0	81.1	89.0	98.0	103.2	107.3	107.3	105.1	112.2
70.0	80.1	87.6	96.0	100.3	104.6	105.2	103.0	109.9
75.0	79.5	86.9	94.5	98.7	103.0	103.7	101.9	108.4
80.0	79.5	86.0	92.9	97.7	101.5	101.5	99.6	106.6
85.0	78.9	86.3	92.2	96.7	100.6	100.5	98.6	105.7
90.0	78.9	85.8	91.5	95.7	99.0	99.2	97.7	104.4
95.0	78.3	85.5	90.8	94.7	98.1	98.4	97.2	103.6
100.0	77.6	84.8	90.8	94.4	97.8	98.7	96.6	103.5
105.0	76.8	83.7	88.9	93.4	96.8	98.3	96.2	102.8
110.0	76.8	83.0	89.1	93.1	96.3	97.9	96.1	102.6
115.0	76.0	82.1	88.6	93.0	95.7	98.2	95.9	102.3

MODEL THRUST = 16.527 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	14.4	OCTAVE 28.7	BAND 57.5	SOUND 115.0	PRESSURE 230.0	LEVELS 459.9	905.5	1811.0	3593.3	7186.6	14373.1
95.6	87.3(86.5)	85.9	69.97	76.96	80.04	79.93	79.17	75.88	66.36	53.50	30.04	-12.48	-83.96
85.7	97.3(96.2)	93.8	72.61	80.84	85.51	86.96	89.13	87.18	78.11	67.64	49.16	16.25	-38.57
49.3	102.3(100.7)	98.2	74.34	83.41	89.58	91.67	93.65	91.69	82.93	73.89	58.35	31.15	-13.78
88.0	104.9(102.9)	100.2	74.88	84.66	91.48	93.63	95.34	93.91	86.83	78.73	65.13	41.68	3.23
15.2	106.7(104.4)	101.8	75.57	85.07	92.97	95.77	96.66	95.19	89.46	82.01	69.77	48.94	15.04
13.6	108.6(106.1)	103.5	74.35	84.66	93.65	97.66	98.47	97.08	91.37	84.40	73.16	54.25	23.68
21.3	108.9(106.4)	103.9	73.53	83.59	92.81	97.95	99.51	97.28	91.41	84.80	74.31	56.84	28.78
58.1	108.9(106.3)	103.8	72.44	82.31	91.56	97.44	99.92	97.18	91.11	84.78	74.87	58.51	32.38
31.2	108.3(105.5)	102.9	71.39	80.70	89.33	95.98	99.32	96.47	90.90	84.78	75.32	59.83	35.19
32.1	107.0(103.9)	101.0	69.07	77.77	86.64	93.05	97.09	95.48	90.62	84.64	75.56	60.75	37.29
55.1	105.4(101.9)	98.8	66.12	75.98	85.00	90.99	94.04	91.61	90.14	84.32	75.48	61.19	38.64
96.3	103.8(100.0)	96.9	67.42	74.45	83.30	87.54	91.66	91.45	88.51	82.79	74.15	60.27	38.41
52.9	102.5(98.7)	95.6	67.09	74.44	82.08	86.15	90.34	90.59	87.62	81.97	73.49	59.90	38.55
23.1	100.7(97.0)	93.9	67.26	73.78	80.64	85.34	88.97	88.60	85.54	79.95	71.57	58.19	37.19
05.7	99.8(96.1)	93.1	66.76	74.16	79.97	84.41	88.22	87.68	84.64	79.08	70.76	57.49	36.70
00.0	98.7(94.9)	91.9	66.80	73.02	79.33	83.49	86.63	86.37	83.76	78.21	69.91	56.69	35.64
85.7	97.9(94.0)	91.1	66.12	73.24	78.59	82.50	85.70	85.54	83.23	77.67	69.35	56.08	35.29
23.1	97.1(94.0)	93.6	65.32	72.54	73.68	81.35	14.33	65.79	82.55	76.99	68.61	55.22	34.73
52.9	96.9(93.1)	89.9	64.40	71.39	76.42	80.49	84.12	85.15	81.94	76.32	67.83	54.25	32.90
96.3	96.3(92.5)	89.3	64.16	70.27	76.41	80.30	83.36	84.51	81.53	75.81	67.17	53.29	31.43
55.1	95.8(92.2)	88.8	63.07	69.09	75.62	79.43	82.49	84.46	81.00	75.18	66.34	52.05	29.50

RUN NUMBER	= 190.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1260.000
SECONDARY TEMPERATURE (R)	= 570.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .576
PRIMARY VELOCITY (FT/SEC)	= 1856.040
MASS FLOW RATIO	= 1.342
PRIMARY MASS FLOW (LB/SEC)	= .220
THRUST (LBS)	= 22.777
ENVIRONMENTAL TEMPERATURE (R)	= 566.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	= 21.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .126
INSTRUMENTATION NOISE FLOOR (DB)	= 71.547

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.36568E+01	143.7
500	5.34960E-02	117.3
1000	4.73926E-01	126.8
2000	2.51035E+00	134.0
4000	6.26450E+00	138.0
8000	7.30094E+00	138.6
16000	4.85925E+00	136.9
31500	2.19441E+00	133.4

OVERALL SOUND POWER LEVEL+SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	170.2
20000	173.2
40000	176.2
80000	179.2

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	95.3	102.7	103.9	103.7	101.7	98.7	92.5	109.7
20.0	95.8	103.9	108.0	109.0	109.8	107.3	100.3	115.2
25.0	95.2	104.7	110.6	113.0	112.4	109.5	103.6	118.0
30.0	94.9	104.7	111.0	113.6	113.0	110.8	105.9	118.7
35.0	93.4	103.9	111.4	114.7	114.0	111.6	107.2	119.6
40.0	91.7	103.0	111.1	114.6	114.1	112.0	108.2	119.6
45.0	89.8	100.4	109.7	114.5	114.4	112.0	108.5	119.5
50.0	88.3	98.0	107.5	113.3	114.3	112.1	108.1	118.9
55.0	85.5	95.5	105.1	111.5	114.0	111.7	107.4	118.0
60.0	83.6	92.8	101.9	107.5	110.2	109.3	106.3	114.8
65.0	82.0	90.3	98.2	104.2	107.5	107.6	104.9	112.6
70.0	81.1	89.2	96.1	101.6	104.9	105.5	103.4	110.3
75.0	81.1	87.9	94.9	99.8	103.0	103.5	101.8	108.5
80.0	80.6	87.4	94.0	99.1	102.0	102.5	100.7	107.5
85.0	80.6	87.4	93.6	97.8	100.9	101.4	100.2	106.6
90.0	80.6	87.1	92.6	96.7	99.4	99.7	99.4	105.3
95.0	80.1	86.6	92.3	96.0	98.8	99.5	98.9	104.8
100.0	79.5	85.5	91.5	95.6	98.3	99.5	98.5	104.5
105.0	78.9	84.8	90.8	94.7	97.2	99.3	98.3	104.0
110.0	78.3	84.1	90.0	94.0	96.6	98.9	98.2	103.6
115.0	77.6	83.4	89.5	93.4	96.1	98.2	98.0	103.4

MODEL THRUST = 22.777 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 16.9	33.7	67.5	135.0	270.0	540.0	1083.0	2126.1	4218.4	8436.8	16873.9
795.6	84.0(83.4)	83.9	70.01	77.40	78.49	[illegible]	75.28	70.10	58.86	44.04	17.04	-31.24	-110.87
685.7	94.4(93.5)	91.6	72.98	81.06	85.08	85.[illegible]	80.07	81.94	71.11	59.17	38.01	.74	-60.25
549.3	99.5(98.3)	96.3	74.18	83.65	89.50	91.73	90.66	86.49	77.45	67.21	49.51	18.78	-31.15
800.0	102.3(100.8)	98.6	75.35	85.14	91.40	93.88	92.86	89.58	82.04	72.92	57.50	31.06	-11.61
615.2	104.8(103.0)	100.7	75.03	85.49	92.96	96.14	95.17	91.76	85.88	76.75	62.92	39.49	1.91
333.6	106.3(104.2)	101.7	74.35	85.58	93.72	97.04	96.30	93.31	87.43	79.67	67.01	45.77	11.92
121.3	107.3(105.0)	102.4	73.27	83.88	93.12	97.78	97.43	94.22	88.92	81.59	69.81	50.23	19.18
958.1	107.8(105.4)	102.5	72.42	82.17	91.60	97.30	98.10	95.14	89.46	82.47	71.36	53.06	24.17
831.2	107.8(105.2)	102.2	70.29	80.23	89.82	96.98	98.36	95.40	89.51	82.78	72.20	54.89	27.48
732.1	105.5(102.6)	99.5	68.83	77.98	87.10	92.57	95.04	93.54	88.97	82.44	72.27	55.73	29.83
655.1	104.1(100.9)	97.5	67.65	75.92	83.76	89.76	92.93	92.25	88.07	81.70	71.84	55.91	31.03
596.3	102.4(99.0)	95.6	67.04	75.10	82.00	87.45	90.47	90.48	87.04	80.74	71.18	55.71	31.60
552.9	100.9(97.4)	94.1	67.28	74.04	81.04	85.88	88.88	88.75	85.71	79.55	70.12	54.98	31.65
523.1	100.2(96.7)	93.3	66.96	73.72	80.34	85.33	88.07	87.95	84.81	78.70	69.39	54.49	31.35
505.7	99.4(95.8)	92.4	67.06	73.82	80.04	84.10	87.01	87.01	84.41	78.33	69.10	54.34	31.42
500.0	98.4(94.4)	91.2	67.09	73.60	79.07	83.03	85.62	85.30	83.69	77.63	68.42	53.70	30.87
505.7	97.8(94.0)	90.7	66.53	73.04	78.73	82.74	84.90	85.10	83.14	77.07	67.84	53.07	30.16
523.1	97.3(93.6)	90.2	65.87	71.74	77.50	81.44	84.30	84.99	82.59	76.68	67.17	52.27	29.13
552.9	96.7(93.0)	89.5	65.10	70.97	76.91	80.41	83.05	84.56	82.27	76.10	66.67	51.54	28.00
596.3	96.0(92.3)	88.8	64.22	70.04	75.88	79.46	82.21	83.95	81.85	75.60	65.99	50.51	26.41
655.1	95.5(91.9)	88.2	63.21	68.97	75.14	78.91	81.38	83.80	81.22	74.85	65.00	49.06	24.14

RUN NUMBER	= 101.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1238.030
SECONDARY TEMPERATURE (R)	= 557.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .383
PRIMARY VELOCITY (FT/SEC)	= 1054.543
MASS FLOW RATIO	= 1.030
PRIMARY MASS FLOW (LB/SEC)	= .220
THRUST (LBS)	= 21.600
ENVIRONMENTAL TEMPERATURE (R)	= 563.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	= 21.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .126
INSTRUMENTATION NOISE FLOOR (DB)	= 71.587

SUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.62737E+01	144.2
500	3.39716E-02	115.3
1000	2.88489E-01	124.6
2000	1.57524E+00	132.0
4000	3.91942E+00	135.9
8000	7.94634E+00	139.0
16000	8.42185E+00	139.3
31500	4.08836E+00	136.1

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	170.9
20000	173.9
40000	176.9
80000	179.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	93.6	101.1	106.0	108.1	109.3	109.9	104.5	114.9
20.0	93.7	102.7	107.4	109.2	112.4	113.9	109.4	118.2
25.0	92.8	102.7	108.6	110.1	113.0	114.7	110.6	119.1
30.0	92.7	102.4	109.1	111.0	113.7	115.1	110.4	119.5
35.0	91.1	101.0	108.9	111.3	113.7	114.9	111.9	119.7
40.0	90.0	100.0	108.4	112.2	114.1	114.7	111.6	119.8
45.0	87.6	97.8	107.0	111.9	114.3	113.8	109.9	119.1
50.0	86.1	95.8	105.2	111.4	114.3	113.2	109.4	118.7
55.0	84.0	93.6	103.0	109.9	113.9	112.5	108.9	117.9
60.0	83.2	91.6	100.0	106.6	111.2	110.8	108.6	115.8
65.0	81.1	89.6	97.8	104.0	108.6	109.1	107.2	113.8
70.0	80.6	88.3	95.2	101.1	106.1	107.1	105.8	111.7
75.0	80.1	87.4	94.2	99.9	104.2	105.5	104.5	110.1
80.0	79.5	86.9	93.6	98.7	102.8	103.8	102.4	108.5
85.0	78.9	86.0	92.8	97.9	102.0	102.6	100.7	107.3
90.0	78.3	85.5	91.7	96.7	100.5	101.3	100.2	106.2
95.0	78.3	85.1	91.3	95.9	99.4	100.1	99.3	105.2
100.0	77.6	84.5	90.6	95.0	98.4	99.4	98.8	104.5
105.0	76.8	83.4	90.2	94.2	97.7	98.7	99.2	104.1
110.0	76.0	83.4	89.3	93.7	96.9	97.9	99.2	103.6
115.0	75.1	82.1	88.6	93.3	96.0	97.4	98.6	102.9

MODEL THRUST = 21.600 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	16.4	OCTAVE 32.9	BAND 65.7	SOUND 131.5	PRESSURE 262.9	LEVELS 525.8	1035.2	2070.4	4107.9	8215.9	16431.7
1795.6	91.5(90.6)	88.2	68.58	76.05	80.87	80.74	83.16	81.74	71.37	56.69	30.51	-16.78	-95.03
1585.7	98.7(97.4)	94.0	71.12	80.06	84.75	86.32	88.98	88.85	80.65	68.97	48.28	11.76	-48.19
1549.3	102.2(100.5)	96.9	72.00	81.91	87.77	89.06	91.52	92.01	84.83	74.80	57.48	27.36	-21.73
1666.8	104.5(102.6)	99.1	73.34	83.02	89.71	91.49	93.78	94.12	86.89	77.95	62.85	36.92	-5.03
1615.2	106.4(104.1)	100.5	73.00	82.83	90.75	93.03	95.12	95.35	90.08	81.90	68.35	45.37	8.41
1333.6	107.7(105.1)	101.7	72.85	82.63	91.21	94.91	96.51	96.32	91.23	83.60	71.19	50.36	17.05
1121.3	107.8(105.2)	102.1	71.29	81.48	90.71	95.50	97.58	96.35	90.62	83.42	71.86	52.65	22.11
1058.1	108.1(105.4)	102.4	70.50	80.16	89.56	95.68	98.32	96.48	91.00	84.12	73.22	55.26	26.83
1031.2	108.2(105.3)	102.3	68.94	78.24	87.93	94.74	98.52	96.51	91.31	84.68	74.30	57.30	30.53
1732.1	107.1(103.9)	100.6	68.70	77.07	85.47	91.46	96.37	95.29	91.59	85.17	75.18	58.94	33.45
1655.1	105.8(102.3)	99.9	66.96	75.41	83.67	89.72	94.15	94.03	90.76	84.49	74.81	59.16	34.67
1596.3	104.3(100.6)	97.2	66.78	74.49	81.37	87.16	91.96	92.63	89.88	83.52	74.08	58.88	35.16
1552.9	103.1(99.3)	95.9	66.49	73.78	80.53	86.18	90.35	91.01	88.71	82.63	73.37	58.50	35.33
1523.1	101.6(97.9)	94.5	66.10	73.44	80.18	85.71	89.10	89.51	86.88	80.86	71.72	57.08	34.30
1505.7	100.4(96.8)	93.4	65.60	72.71	79.42	84.89	88.34	88.44	85.94	79.96	70.18	55.68	33.12
1500.0	99.4(95.6)	92.3	64.99	72.15	78.34	83.27	86.97	87.17	84.84	78.87	69.82	55.36	32.98
1504.7	98.3(94.5)	91.3	64.96	71.80	77.96	82.48	86.76	85.92	83.86	77.88	68.80	54.79	31.74
1523.1	97.6(93.7)	90.4	64.16	71.03	77.12	81.46	84.71	85.17	83.22	77.20	68.06	53.42	30.64
1552.9	97.3(92.9)	89.8	63.24	69.75	76.55	80.98	83.45	84.21	83.42	77.35	68.08	53.21	30.05
1596.3	96.7(92.1)	89.0	62.17	69.51	75.46	79.72	82.76	83.19	83.12	76.96	67.52	52.32	29.40
1655.1	95.6(91.1)	88.0	60.94	67.92	74.45	79.01	81.69	82.34	82.10	75.82	66.14	50.50	28.01

RUN NUMBER	= 192.00 (R17.00)
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1240.000
SECONDARY TEMPERATURE (R)	= 553.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .504
PRIMARY VELOCITY (FT/SEC)	= 1856.040
MASS FLOW RATIO	= 2.446
PRIMARY MASS FLOW (LB/SEC)	= .220
THRUST (LBS)	= 31.725
ENVIRONMENTAL TEMPERATURE (R)	= 557.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.720
ENVIRONMENTAL HUMIDITY (PER CENT)	= 27.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .159
INSTRUMENTATION NOISE FLOOR (DB)	= 73.591

OUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.79767E+01	145.8
500	8.10369E-02	119.1
1000	6.54054E-01	128.2
2000	3.35809E+00	135.3
4000	7.22179E+00	138.6
8000	1.18142E+01	140.7
16000	1.01025E+01	140.0
31500	4.74213E+00	136.8

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	170.8
20000	173.8
40000	176.8
80000	179.8

EXPERIMENTAL DATA.
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.1	104.1	109.5	109.0	110.7	108.9	103.4	116.2
20.0	97.8	106.5	110.7	112.8	113.8	111.9	106.6	118.9
25.0	96.9	106.7	111.4	113.5	115.8	115.1	109.8	120.9
30.0	96.4	106.2	112.9	114.2	116.6	116.1	111.6	121.8
35.0	95.7	105.0	112.5	114.5	116.2	115.7	111.6	121.6
40.0	93.1	103.1	111.6	114.8	114.3	115.6	112.1	121.5
45.0	90.5	101.0	110.3	114.6	115.6	114.8	111.5	120.9
50.0	89.6	99.3	108.3	113.4	113.1	113.8	110.3	119.8
55.0	87.3	96.8	105.6	111.7	114.5	112.9	109.7	118.8
60.0	85.2	94.4	103.2	108.8	112.4	111.8	109.0	117.0
65.0	84.0	92.3	101.0	106.9	110.7	110.2	108.0	115.4
70.0	83.1	90.8	98.1	103.8	107.7	108.0	105.8	112.9
75.0	82.6	89.6	96.7	102.4	106.3	107.1	104.3	111.8
80.0	82.1	89.4	96.0	101.0	104.4	104.9	103.6	110.0
85.0	82.1	88.1	94.9	99.6	103.2	103.6	102.2	108.6
90.0	80.9	88.1	94.6	99.3	102.2	102.8	102.3	108.1
95.0	81.5	87.5	93.5	98.0	101.3	102.0	101.5	107.2
100.0	80.3	86.8	93.1	97.3	100.4	101.4	100.7	106.5
105.0	79.6	86.5	92.4	96.7	99.7	101.7	101.4	106.5
110.0	78.8	85.7	92.0	96.0	99.2	101.4	101.1	106.1
115.0	78.8	84.5	91.1	95.7	98.6	100.7	100.7	105.5

Reproduced from best available copy.

MODEL THRUST = 31.725 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	19.9	OCTAVE 39.8	BAND 79.7	SOUND 159.3	PRESSURE 318.6	LEVELS 637.2	1254.6	2509.2	4978.5	9957.0	19914.0
5795.6	90.9(90.3)	88.1	71.38	77.34	82.65	81.75	82.52	78.86	66.24	49.07	17.94	-36.89	-125.46
4385.7	97.2(96.4)	93.4	73.54	82.16	86.27	87.38	88.44	84.50	74.39	60.66	36.38	-5.65	-73.60
3549.3	101.8(100.6)	97.1	74.45	84.71	88.41	90.90	92.43	90.15	80.93	69.24	49.02	14.28	-41.13
3000.0	104.7(103.2)	99.6	75.40	85.15	91.80	92.98	94.81	92.92	85.23	74.90	57.34	27.51	-19.79
2615.2	106.1(104.3)	100.8	75.94	85.19	92.68	94.52	95.76	94.06	87.09	77.69	62.00	35.61	-9.80
2333.6	107.4(105.4)	101.8	74.32	84.25	92.73	95.82	96.85	95.13	89.06	80.36	66.03	42.16	4.70
2121.3	107.8(105.6)	102.0	72.50	83.00	92.29	96.46	97.12	95.31	89.65	81.46	68.16	46.19	11.87
1958.1	107.7(105.5)	101.8	72.32	82.05	90.97	95.92	97.31	95.13	89.44	81.65	69.15	48.64	14.73
1831.2	107.6(105.2)	101.3	70.56	80.08	88.83	94.45	97.38	94.88	89.70	82.22	70.34	50.96	20.92
1732.1	106.5(103.8)	99.9	69.03	78.13	86.95	92.48	95.69	94.31	89.61	82.38	70.97	52.48	23.91
1655.1	105.5(102.6)	98.8	68.21	76.98	85.16	90.91	94.47	93.22	89.19	82.14	71.11	53.30	25.97
1596.3	103.4(100.3)	96.6	67.61	75.25	82.55	88.18	91.77	91.32	87.41	80.51	69.76	52.48	25.91
1552.9	102.8(99.6)	95.6	67.35	74.16	81.35	87.02	90.62	90.73	87.24	80.44	69.90	53.02	27.09
1523.1	101.2(97.9)	94.0	66.99	74.28	80.90	85.79	88.87	89.68	85.80	79.07	68.68	52.04	26.57
1505.7	100.0(96.7)	92.8	67.09	73.05	79.89	84.47	87.79	87.54	84.44	77.76	67.45	50.99	25.75
1500.0	99.9(96.1)	92.3	65.97	73.08	79.63	84.18	86.80	86.77	84.66	77.99	67.71	51.30	26.15
1505.7	99.9(95.7)	91.9	66.53	72.65	79.45	83.97	86.91	86.91	83.78	77.10	66.79	50.32	25.09
1523.1	98.0(94.3)	90.5	65.19	71.70	78.00	82.06	84.86	85.16	82.83	76.11	65.72	49.09	23.60
1552.9	99.1(94.3)	90.3	64.33	71.19	77.08	81.34	84.08	85.30	83.33	76.53	66.00	49.11	23.18
1596.3	97.3(93.6)	89.6	63.33	70.23	76.03	80.40	83.28	84.70	82.71	75.81	65.64	47.78	21.21
1655.1	96.3(92.6)	88.6	63.02	69.72	75.25	79.70	82.15	83.74	81.97	74.82	63.79	45.89	19.55

RUN NUMBER	= 193.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1237.000
SECONDARY TEMPERATURE (R)	= 540.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 4.840
VELOCITY RATIO	= .378
PRIMARY VELOCITY (FT/SEC)	= 1853.794
MASS FLOW RATIO	= 3.790
PRIMARY MASS FLOW (LB/SEC)	= .228
THRUST (LBS)	= 31.031
ENVIRONMENTAL TEMPERATURE (R)	= 554.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	= 26.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .100
INSTRUMENTATION NOISE FLOOR (DB)	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.39189E+01	141.4
500	6.78063E-02	118.3
1000	3.80327E-01	125.8
2000	1.35140E+00	131.3
4000	2.76519E+00	134.4
8000	4.66981E+00	136.7
16000	3.56753E+00	135.5
31500	1.17628E+00	130.7

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	166.5
20000	169.5
40000	172.5
80000	175.5

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.0	103.1	105.2	104.9	106.0	103.7	93.8	111.9
20.0	97.2	104.4	107.5	108.3	109.0	106.1	96.1	114.5
25.0	96.9	104.3	108.4	109.0	109.7	107.1	98.1	115.2
30.0	95.5	103.9	108.5	109.7	111.2	109.6	102.0	116.3
35.0	93.8	102.4	108.5	110.6	112.3	111.5	105.3	117.4
40.0	92.0	100.6	107.9	111.0	113.0	112.4	107.0	118.0
45.0	90.0	98.3	106.0	110.8	113.0	111.8	106.8	117.5
50.0	87.6	95.9	103.4	109.1	112.0	110.0	104.7	116.0
55.0	85.8	93.2	100.9	106.9	110.9	108.7	104.1	114.6
60.0	84.4	91.6	99.2	104.5	108.4	107.2	103.6	112.9
65.0	82.9	89.9	96.3	101.2	106.0	104.7	102.0	109.8
70.0	83.2	89.1	94.9	98.8	102.0	102.3	100.1	107.4
75.0	82.6	88.1	93.5	97.5	100.4	100.7	99.5	106.0
80.0	82.0	87.0	92.5	96.1	99.1	99.0	97.2	104.5
85.0	81.2	86.8	91.9	95.3	97.9	97.8	96.7	103.5
90.0	80.8	86.1	90.9	94.6	96.7	95.9	95.4	102.2
95.0	80.0	85.6	90.8	94.0	96.2	95.9	94.9	101.8
100.0	79.1	84.6	89.7	93.0	95.0	95.0	94.6	101.0
105.0	79.1	83.7	88.9	92.4	94.4	95.6	94.2	100.7
110.0	78.6	83.7	88.4	91.5	93.4	95.5	94.1	100.3
115.0	78.1	83.1	87.8	91.3	93.0	95.4	93.8	100.0

MODEL THRUST = 31.031 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	19.7	OCTAVE 39.4	BAND 78.8	SOUND 157.6	PRESSURE 315.1	LEVELS 630.2	1260.8	2481.5	4923.7	9847.4	19654.8
795.6	84.0(85.6)	84.3	71.35	76.41	78.46	77.85	77.92	72.97	56.84	39.83	9.00	-45.38	-133.34
685.7	92.0(91.4)	89.5	72.97	80.19	83.18	83.70	83.75	78.80	64.12	50.52	26.46	-15.42	-82.71
549.3	95.3(94.4)	92.1	74.57	81.93	85.97	86.35	86.41	82.21	69.38	57.81	37.76	3.30	-51.24
000.0	98.8(97.6)	94.6	74.62	82.99	87.58	88.56	89.51	86.61	75.73	65.48	48.07	18.48	-28.50
615.2	101.7(100.2)	96.8	74.12	82.67	88.76	90.69	91.94	89.94	80.92	71.59	56.04	29.85	-11.49
333.6	103.7(101.9)	98.4	73.24	81.84	89.16	92.09	93.74	92.00	84.13	75.69	61.29	37.60	.39
121.3	104.5(102.5)	98.8	72.10	80.41	88.97	92.79	94.57	92.38	85.11	76.98	63.80	41.99	7.89
958.1	103.8(101.8)	98.1	70.44	78.67	86.19	91.77	94.32	91.44	84.06	76.33	63.93	43.57	11.86
831.2	103.3(101.1)	97.3	69.22	76.58	84.24	90.16	93.85	90.83	84.26	76.83	65.04	45.81	15.96
732.1	102.1(99.5)	95.7	68.25	75.52	83.03	88.22	91.80	89.87	84.60	77.22	65.90	47.54	19.15
655.1	99.8(96.9)	93.3	67.22	74.18	80.56	85.17	88.86	87.78	83.35	76.35	65.40	47.73	20.47
596.3	96.0(93.0)	91.2	67.04	73.73	79.62	83.21	86.21	85.80	81.63	74.97	64.31	47.16	20.76
552.9	97.0(93.8)	90.1	67.45	72.94	78.24	82.18	84.84	84.42	81.55	74.80	64.34	47.57	21.41
523.1	95.5(92.3)	88.7	66.95	71.95	77.69	81.01	83.72	82.93	79.48	72.79	62.48	45.98	20.65
505.7	94.8(91.4)	87.9	66.33	71.44	76.95	80.31	82.65	81.86	78.69	72.45	62.22	45.87	20.79
500.0	93.5(90.0)	86.6	65.98	71.22	76.81	79.56	81.42	74.96	77.86	71.24	61.03	44.74	19.75
505.7	93.0(89.6)	86.2	65.12	70.71	75.83	78.96	80.89	79.92	77.31	70.67	60.44	44.09	19.02
523.1	92.3(88.8)	85.2	64.10	69.54	74.81	77.72	79.60	78.87	76.41	70.23	59.91	43.41	18.08
552.9	91.7(88.4)	84.7	63.93	68.47	73.73	77.09	79.32	78.27	69.52	59.06	42.29	16.53	
596.3	91.0(87.8)	84.0	63.20	68.33	72.92	75.98	77.87	78.95	75.61	68.95	58.29	41.14	14.74
655.1	90.4(87.2)	83.4	62.36	67.39	71.99	75.40	76.88	78.49	75.10	66.10	57.15	39.49	12.71

RUN NUMBER	= 194.00 (741.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	= 0.000
PRIMARY TEMPERATURE (R)	= 1236.000
SECONDARY TEMPERATURE (R)	= 540.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 4.056
VELOCITY RATIO	= .562
PRIMARY VELOCITY (FT/SEC)	= 1853.044
MASS FLOW RATIO	= 5.975
PRIMARY MASS FLOW (LB/SEC)	= .222
THRUST (LBS)	= 55.572
ENVIRONMENTAL TEMPERATURE (R)	= 548.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	= 32.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .112
INSTRUMENTATION NOISE FLOOR (DB)	= 70.979

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.73741E+01	142.4
500	2.92174E-01	124.7
1000	1.59876E+00	132.0
2000	4.11055E+00	136.1
4000	4.10971E+00	136.1
8000	4.10500E+00	136.1
16000	2.36174E+00	133.7
31500	7.96124E-01	129.0

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	165.0
20000	168.0
40000	171.0
80000	174.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	104.4	109.8	111.1	108.3	105.3	98.3	90.1	115.6
20.0	104.2	111.2	112.9	110.5	107.5	100.9	92.2	117.3
25.0	103.7	110.7	113.6	111.0	108.4	103.3	94.0	117.7
30.0	102.3	110.3	114.3	111.7	109.5	106.3	97.9	118.3
35.0	99.6	108.6	113.5	112.5	111.1	108.7	101.2	118.4
40.0	97.7	106.6	112.2	112.4	111.5	108.9	102.2	118.0
45.0	95.9	103.7	109.9	111.8	112.3	109.7	103.3	117.5
50.0	93.1	101.1	107.1	110.2	111.5	108.7	103.0	116.1
55.0	90.8	98.7	104.7	108.4	110.4	107.9	102.4	114.7
60.0	89.3	96.2	102.3	105.8	107.9	106.0	102.0	112.5
65.0	88.4	95.0	100.5	103.4	105.4	104.3	101.6	110.5
70.0	88.4	94.4	99.4	102.0	103.8	102.3	99.8	108.9
75.0	87.9	93.6	98.2	100.7	102.1	101.0	99.1	107.7
80.0	87.5	92.9	97.4	99.4	100.8	99.4	98.1	106.4
85.0	87.0	92.2	97.2	99.0	100.0	98.6	97.9	105.9
90.0	86.6	91.2	95.2	97.8	99.2	98.2	97.5	105.0
95.0	85.9	90.5	95.3	97.7	99.1	98.4	97.2	104.9
100.0	85.9	90.6	94.7	96.9	97.9	97.6	96.3	104.1
105.0	84.3	89.7	93.9	95.8	97.1	97.4	95.3	103.3
110.0	84.2	89.3	93.6	95.5	96.9	97.4	95.2	103.1
115.0	83.9	88.8	92.9	95.2	96.7	97.6	94.8	102.9

MODEL THRUST = 55.572 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	26.4	OCTAVE 52.7	BAND 105.4	SOUND 210.8	PRESSURE 421.7	LEVELS 843.4	1660.4	3320.9	6589.1	13178.1	26356.2
795.6	85.6(85.4)	85.9	75.21	80.59	81.77	78.38	73.87	62.95	46.03	23.99	-15.33	-82.61	-187.32
385.7	90.7(90.4)	90.1	77.49	84.41	86.02	83.16	79.08	69.54	54.13	36.72	6.24	-45.41	-125.37
549.3	93.7(93.3)	92.4	78.80	85.77	88.41	85.68	82.11	74.64	59.95	45.29	20.04	-22.33	-87.61
000.0	96.6(96.0)	94.4	78.88	86.88	90.74	87.93	84.90	79.72	66.72	53.86	32.06	-4.21	-59.86
615.2	99.2(98.4)	95.6	77.32	86.38	91.14	89.94	87.82	83.72	72.18	60.59	41.20	9.19	-39.76
333.6	100.5(99.5)	96.1	76.49	85.36	90.67	90.88	89.38	85.16	74.97	64.31	46.68	17.80	-26.15
121.3	101.7(100.6)	96.3	75.49	83.23	89.41	91.15	91.04	87.07	77.42	67.45	51.16	24.63	-15.00
950.1	101.5(100.2)	95.5	73.34	81.34	87.33	90.21	91.00	86.91	78.25	68.82	53.55	28.83	-8.53
831.2	101.0(99.6)	94.7	71.71	79.57	85.49	89.00	90.53	86.77	78.57	69.55	55.07	31.76	-3.37
732.1	99.6(97.9)	92.9	70.67	77.58	83.58	86.92	88.55	85.54	78.86	70.17	56.31	34.10	.71
655.1	98.3(96.4)	91.3	70.18	76.69	82.20	84.91	86.49	84.26	79.12	70.68	57.31	35.95	3.91
596.3	97.1(95.1)	90.1	70.50	76.43	81.42	83.82	85.20	82.66	77.70	69.45	56.45	35.74	4.73
552.9	96.1(94.0)	89.0	70.16	75.64	80.39	82.75	83.79	81.69	77.44	69.34	56.68	36.38	6.13
523.1	95.1(93.0)	88.0	69.93	75.33	79.81	81.67	82.62	80.21	76.63	68.62	56.08	36.18	6.45
505.7	94.9(92.7)	87.6	69.60	74.70	79.67	81.41	82.02	79.55	76.56	68.62	56.18	36.48	7.05
500.0	94.2(92.0)	86.8	69.19	73.79	77.73	80.20	81.22	79.18	76.18	68.25	55.85	36.22	6.89
505.7	94.0(91.8)	86.5	68.44	73.11	77.79	80.02	81.05	79.39	75.91	67.96	55.53	35.83	6.40
523.1	93.0(90.8)	85.6	68.34	73.07	77.07	79.17	79.77	78.49	74.81	66.81	54.26	34.37	4.64
552.9	91.9(89.7)	84.6	68.46	71.93	76.12	77.92	78.77	78.22	73.64	65.54	52.81	32.58	2.33
596.3	91.0(89.2)	84.1	66.30	71.15	75.64	77.31	78.34	77.73	73.15	64.90	51.90	31.19	.18
655.1	90.6(88.5)	83.6	65.68	70.48	74.57	76.70	77.83	77.54	72.24	63.81	50.43	29.08	-2.97

RUN NUMBER	= 104.000
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1744.000
SECONDARY TEMPERATURE (R)	= 542.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 9.788
VELOCITY RATIO	= .500
PRIMARY VELOCITY (FT/SEC)	= 1842.018
MASS FLOW RATIO	= 12.000
PRIMARY MASS FLOW (LB/SEC)	= .223
THRUST (LBS)	= 99.708
ENVIRONMENTAL TEMPERATURE (R)	= 542.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.748
ENVIRONMENTAL HUMIDITY (PER CENT)	= 30.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .112
INSTRUMENTATION NOISE FLOOR (DB)	= 70.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.33242E+01	143.7
500	8.63076E-01	129.4
1000	2.24178E+00	133.5
2000	4.64165E+00	136.7
4000	4.61335E+00	136.6
8000	5.39502E+00	137.3
16000	3.82297E+00	135.8
31500	1.74572E+00	132.4

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	163.7
20000	166.7
40000	169.7
80000	172.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	107.8	111.6	109.8	108.0	105.5	105.9	100.9	116.3
20.0	113.5	112.6	111.0	107.5	104.5	107.0	102.8	118.4
25.0	106.0	112.2	112.7	109.0	107.8	108.1	104.4	117.9
30.0	104.0	111.3	112.7	110.0	109.4	108.9	105.0	118.1
35.0	101.7	109.4	112.2	111.1	110.4	109.1	105.6	118.0
40.0	99.5	107.0	111.6	112.3	111.5	108.9	105.2	118.0
45.0	98.0	105.0	110.9	113.6	112.5	110.1	106.3	119.5
50.0	98.8	102.7	107.6	110.8	112.7	110.3	106.1	117.3
55.0	93.3	100.9	106.3	109.4	111.6	109.6	105.5	116.2
60.0	93.4	99.8	104.4	107.6	109.9	108.8	105.4	114.8
65.0	92.8	98.8	103.5	106.1	108.5	107.5	104.1	113.5
70.0	92.3	97.8	102.5	105.1	107.2	106.1	103.0	112.3
75.0	91.9	97.4	101.5	103.8	105.5	104.4	102.0	110.9
80.0	91.9	96.4	100.9	103.3	104.6	103.3	101.1	110.1
85.0	90.7	95.2	99.8	101.8	103.3	102.0	100.1	108.9
90.0	90.3	95.1	99.4	101.4	103.0	101.9	99.8	108.6
95.0	90.1	94.7	98.3	100.6	102.1	101.3	99.5	107.8
100.0	89.5	93.9	98.2	100.0	101.5	100.7	98.7	107.3
105.0	88.6	93.5	97.5	99.4	100.9	100.4	98.2	106.8
110.0	87.9	93.0	97.0	99.0	100.7	100.3	97.8	106.4
115.0	87.7	92.5	96.7	98.6	100.6	99.9	97.3	106.1

MODEL THRUST = 99.708 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 35.3	70.6	141.2	282.4	564.9	1129.7	2224.1	4448.3	8825.9	17651.9	35303.7
5795.6	83.6(83.5)	83.6	75.94	79.79	77.73	73.08	70.28	65.12	47.82	19.35	-30.26	-112.28	-234.76
4586.7	88.6(88.5)	88.5	84.18	83.24	81.44	77.29	74.54	70.87	57.42	35.15	-3.12	-65.92	-159.33
3569.3	91.9(91.6)	89.6	78.54	84.71	84.99	80.41	78.26	75.07	63.90	45.31	13.76	-37.63	-113.80
3000.6	94.6(94.1)	91.1	78.03	85.31	86.58	83.36	81.58	78.20	67.96	51.78	24.65	-19.25	-84.10
2615.2	96.5(95.9)	92.1	76.91	84.61	87.27	85.73	84.07	80.17	71.24	56.75	32.72	-5.96	-62.85
2333.6	98.1(97.4)	93.1	75.72	83.18	87.62	88.02	86.33	81.48	72.79	59.53	37.76	2.95	-44.16
2121.3	100.4(99.6)	95.7	73.91	81.99	91.83	90.18	88.23	85.82	75.50	63.18	43.12	11.20	-35.54
1958.1	100.2(99.3)	93.7	76.49	80.40	85.24	88.10	89.31	84.96	76.64	65.03	46.28	16.59	-26.78
1831.2	99.9(98.8)	93.1	71.60	79.23	84.47	87.36	88.79	85.82	77.10	66.05	48.33	20.36	-19.39
1732.1	99.2(98.0)	92.2	72.18	78.63	83.05	86.04	87.63	84.84	77.85	67.25	50.32	23.70	-13.00
1655.1	98.4(97.1)	91.3	72.04	77.96	82.09	84.96	86.69	84.08	77.16	66.89	50.58	25.81	-10.11
1596.3	97.7(96.4)	90.5	71.76	77.33	81.43	84.26	85.77	83.14	76.69	66.64	50.81	26.04	-9.87
1552.9	96.7(95.3)	89.4	71.45	77.10	81.16	83.21	84.35	81.72	76.08	66.25	50.76	26.50	-8.42
1523.1	96.1(94.7)	88.8	71.82	76.30	80.73	82.84	83.57	80.87	75.40	65.70	50.45	26.69	-7.71
1505.7	95.1(93.7)	87.6	70.73	75.23	79.77	81.55	82.39	79.68	74.56	64.95	49.84	26.31	-7.73
1500.6	94.9(93.4)	87.4	70.32	75.09	79.32	81.18	82.13	79.56	74.37	64.78	49.72	26.27	-7.66
1505.7	94.3(92.8)	86.5	70.14	74.68	78.22	80.26	81.17	78.60	73.99	64.36	49.25	25.72	-8.32
1523.1	93.4(92.0)	85.9	69.41	73.74	77.44	79.43	80.46	78.26	72.99	63.30	48.05	24.28	-10.12
1552.9	92.7(91.2)	85.2	66.38	73.14	77.14	78.93	79.74	77.92	72.23	62.40	46.91	22.74	-12.28
1596.3	91.9(90.5)	84.6	67.38	72.49	76.42	78.16	79.25	77.29	71.41	61.40	45.56	20.80	-14.11
1655.1	91.0(89.7)	83.9	66.87	71.70	75.76	77.46	78.78	76.54	70.45	60.17	43.86	18.30	-16.82

RUN NUMBER	= 197.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= NONE
PRIMARY TEMPERATURE (R)	= 1294.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 2108.000
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= .272
THRUST (LBS)	= 18.297
ENVIRONMENTAL TEMPERATURE (R)	= 565.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 17.000
CALIBRATION FACTOR (DB TO DYNES/SQ CM)	= .252
INSTRUMENTATION NOISE FLOOR (DB)	= 77.607

JUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.55191E+01	168.8
500	4.60790E-02	116.6
1000	5.00139E-01	127.0
2000	3.59415E+00	135.6
4000	1.39425E+01	141.4
8000	3.01662E+01	144.8
16000	1.89884E+01	142.8
31500	8.28172E+00	139.2

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	176.2
20000	179.2
40000	182.2
80000	185.2

EXPERIMENTAL DATA.
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	94.9	102.5	107.0	109.5	111.4	108.7	105.9	116.1
20.0	95.5	104.5	110.3	113.6	115.1	113.6	109.4	120.1
25.0	94.5	104.4	111.7	116.1	118.9	116.3	111.2	122.9
30.0	93.6	104.3	112.8	117.4	120.5	118.4	113.6	124.5
35.0	92.4	103.7	113.5	118.0	120.7	117.7	113.9	124.6
40.0	91.0	102.0	112.1	117.4	121.0	119.7	115.7	125.2
45.0	89.6	100.0	111.3	116.2	121.0	119.1	115.2	125.1
50.0	87.1	95.6	109.1	117.3	121.0	118.1	114.3	124.5
55.0	84.3	95.2	105.8	114.7	119.1	116.2	112.1	122.4
60.0	82.9	92.9	102.9	111.0	115.6	113.9	110.2	119.4
65.0	81.1	90.5	98.9	106.2	111.1	110.9	109.0	115.8
70.0	81.1	89.4	97.0	103.4	108.2	108.8	107.7	113.4
75.0	81.1	89.0	96.4	101.6	106.3	107.6	106.5	112.2
80.0	81.1	88.5	95.6	100.8	104.9	106.0	105.4	110.9
85.0	81.1	88.5	94.9	99.9	103.9	104.6	104.3	109.7
90.0	80.1	100.4	94.9	98.9	102.6	103.7	103.2	109.3
95.0	80.1	86.6	93.4	97.8	101.1	102.1	101.2	107.0
100.0	80.1	86.0	92.8	97.0	100.5	101.2	101.0	106.5
105.0	78.9	86.0	92.2	96.8	100.3	101.0	100.5	106.2
110.0	77.6	85.5	91.8	96.3	99.9	100.4	102.0	105.7
115.0	77.6	84.1	90.8	95.3	99.1	99.5	99.6	104.9

MODEL THRUST = 18.297 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 15.1	30.2	60.5	121.0	242.0	483.9	952.8	1965.5	3780.8	7561.6	15123.2
1795.6	93.7(92.7)	90.6	70.58	78.19	82.59	86.89	86.09	81.55	74.12	60.67	36.13	-8.15	-82.16
1385.7	100.9(99.6)	97.2	73.57	82.62	88.36	91.51	92.48	89.80	81.99	71.08	51.78	17.54	-39.19
1349.3	106.2(104.7)	102.0	74.43	84.33	91.58	95.91	98.30	94.48	86.73	77.33	61.14	32.85	-13.63
1400.0	109.7(107.9)	105.1	75.03	85.72	94.13	98.69	101.39	98.39	91.21	82.80	68.65	44.28	4.52
1615.2	111.4(109.3)	106.5	74.99	86.33	96.02	100.45	102.81	99.03	93.23	85.51	72.79	51.16	10.12
1533.6	113.4(110.9)	108.1	74.56	85.57	95.61	100.49	104.18	102.20	96.37	89.17	77.49	57.87	20.28
1121.3	114.2(111.6)	108.9	74.05	84.44	95.73	102.51	105.08	102.47	96.97	90.15	79.26	61.15	27.16
1958.1	114.5(111.8)	109.1	72.24	80.69	94.14	102.34	105.75	102.26	96.96	90.43	80.16	63.21	34.22
1831.2	113.1(110.4)	107.6	70.00	80.88	91.47	100.26	104.50	100.96	95.65	89.15	79.34	63.30	37.96
1732.1	110.8(107.8)	105.0	69.03	79.07	89.05	97.11	101.46	99.28	94.22	88.10	78.66	63.33	39.10
1655.1	108.5(104.9)	101.6	67.68	77.95	85.69	92.68	97.44	96.44	91.50	87.51	78.38	63.57	40.29
1596.3	106.9(103.1)	99.9	68.00	76.26	83.83	90.17	94.78	94.95	92.55	86.67	77.74	63.37	40.81
1552.9	106.0(102.1)	98.8	68.24	76.09	83.50	88.86	93.17	94.01	91.70	85.90	77.13	63.07	41.04
1523.1	104.9(100.9)	97.6	68.40	75.83	82.84	87.97	91.47	92.57	90.80	85.35	76.39	62.56	40.89
1505.7	103.4(99.8)	96.6	68.50	75.93	82.24	87.24	90.49	91.25	89.76	84.84	75.45	61.72	40.27
1508.6	103.3(99.6)	96.3	67.51	87.79	82.29	86.22	89.79	90.62	88.72	83.82	74.44	60.76	39.38
1505.7	101.1(97.2)	94.0	67.44	74.03	80.72	85.15	88.19	88.72	86.68	80.96	72.37	58.64	37.19
1523.1	100.4(96.3)	93.3	67.38	73.34	80.34	84.22	87.59	87.71	86.39	80.65	71.99	58.16	36.47
1552.9	99.4(95.9)	92.6	66.85	73.17	79.26	83.87	87.15	87.19	85.44	79.84	71.11	57.05	35.42
1596.3	99.3(95.1)	92.0	66.47	72.33	78.69	83.34	86.69	86.56	84.85	79.47	70.84	55.67	33.11
1655.1	97.9(93.9)	90.9	66.16	73.[illegible]	77.31	81.77	85.[illegible]	85.[illegible]	84.09	78.10	68.95	54.16	31.[illegible]

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 1YH.000
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 1311.000
PRIMARY PRESSURE RATIO	= 565.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 1.000
PRIMARY VELOCITY (FT/SEC)	= .345
MASS FLOW RATIO	= 2182.467
PRIMARY MASS FLOW (LB/SEC)	= .847
THRUST (LBS)	= .272
ENVIRONMENTAL TEMPERATURE (R)	= 24.380
ENVIRONMENTAL PRESSURE (IN.HG)	= 563.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.720
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 17.000
INSTRUMENTATION NOISE FLOOR (DB)	= .224
	= 76.584

OUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.49162E+01	148.1
500	8.50250E-02	119.3
1000	7.63728E-01	128.8
2000	4.52853E+00	136.6
4000	1.40807E+01	141.5
8000	2.44144E+01	143.9
16000	1.47522E+01	141.7
31500	6.29127E+00	138.0

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	174.3
20000	177.3
40000	180.3
80000	183.3

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	97.7	104.9	108.9	113.7	110.8	106.6	101.4	117.2
20.0	98.2	106.9	111.1	114.8	116.5	112.0	105.5	120.5
25.0	96.9	107.3	113.2	115.6	117.0	113.1	107.9	121.5
30.0	96.6	107.0	114.1	117.4	119.3	116.1	110.5	123.5
35.0	94.6	105.3	113.9	116.0	116.9	117.0	111.8	124.0
40.0	93.3	104.3	113.5	116.1	119.9	118.0	113.6	124.4
45.0	94.4	102.2	112.2	118.2	120.4	118.5	114.8	124.7
50.0	89.6	99.8	109.5	117.0	119.8	117.4	113.6	123.7
55.0	87.0	97.1	106.9	114.2	117.9	115.2	111.4	121.5
60.0	85.1	94.4	104.1	110.7	114.5	113.1	110.2	118.7
65.0	83.9	92.6	100.3	106.5	111.0	110.9	108.7	115.8
70.0	82.6	90.8	97.9	103.4	108.0	108.4	107.2	113.3
75.0	83.3	89.5	97.0	102.0	106.0	106.6	105.8	111.6
80.0	81.8	92.9	95.9	100.6	104.6	105.2	104.2	110.2
85.0	81.8	88.7	95.4	100.2	103.3	104.3	103.1	109.2
90.0	81.8	88.4	94.8	99.2	102.7	103.5	102.0	108.4
95.0	81.8	87.9	93.6	97.4	102.0	102.5	101.1	107.4
100.0	81.8	87.1	92.9	97.3	101.6	102.0	100.9	106.8
105.0	80.1	86.6	92.3	96.7	101.4	101.5	99.7	106.4
110.0	79.1	86.1	91.4	95.6	100.8	101.0	98.9	105.8
115.0	77.9	85.0	90.8	95.3	99.9	100.5	98.6	105.2

MODEL THRUST = 24.380 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 17.5	34.9	69.8	139.7	279.3	558.6	1099.8	2199.6	4364.3	8728.6	17457.2
5795.6	92.3(91.7)	90.9	72.09	79.26	83.19	87.74	84.05	77.60	66.98	51.71	23.90	-25.67	-107.10
4385.7	99.9(99.1)	96.5	75.01	83.78	87.87	91.32	92.40	86.24	75.70	63.41	41.64	3.39	-58.96
3549.3	103.3(102.1)	99.4	75.55	85.94	91.86	94.03	94.99	89.71	81.15	70.63	52.45	20.92	-30.11
3000.0	107.3(105.9)	102.9	76.72	87.18	94.22	97.39	98.79	94.46	86.11	76.76	60.92	33.81	-9.79
2615.2	109.5(107.8)	104.7	75.98	86.45	95.21	99.17	100.70	96.78	89.16	80.62	66.43	42.41	4.02
2333.6	111.2(109.1)	106.0	75.60	86.63	95.46	100.24	101.74	98.93	92.36	84.42	71.43	49.68	15.10
2121.3	112.7(110.4)	107.2	77.61	85.33	95.32	101.23	103.12	100.39	94.79	87.29	75.21	55.17	23.46
1958.1	112.6(110.2)	106.9	73.49	83.63	93.33	100.68	103.26	100.65	94.49	87.34	75.96	57.22	27.73
1831.2	111.2(108.6)	105.3	71.47	81.50	91.26	98.68	101.95	98.53	93.06	86.18	75.36	57.62	29.84
1732.1	109.1(106.2)	102.9	70.01	79.29	86.98	95.48	99.05	97.00	92.51	85.84	75.43	58.51	32.07
1655.1	107.2(103.9)	100.4	69.25	77.95	85.64	91.67	96.01	95.27	91.54	85.03	74.95	58.65	33.29
1596.3	105.2(101.7)	98.2	68.23	76.38	83.53	88.97	93.27	93.09	90.37	83.99	74.16	58.33	33.73
1552.9	104.0(100.3)	96.6	69.16	75.33	82.84	87.78	91.54	91.56	89.36	83.07	73.43	57.95	33.63
1523.1	102.8(99.2)	95.6	67.88	78.91	81.96	86.54	90.31	90.36	87.93	81.70	72.18	56.94	33.33
1505.7	101.9(98.3)	94.7	67.98	74.88	81.49	86.22	89.18	89.59	86.98	80.79	71.35	56.24	32.87
1500.0	101.0(97.5)	93.9	68.01	74.52	80.91	85.23	88.60	88.75	85.92	79.75	70.33	55.27	31.97
1505.7	100.0(96.4)	92.9	67.98	74.09	79.75	83.47	87.49	87.74	84.92	78.74	69.29	54.19	30.81
1523.1	99.2(95.7)	92.2	67.88	73.12	78.89	83.22	87.52	87.10	83.72	77.48	67.98	52.74	29.12
1552.9	98.5(95.1)	91.6	65.97	72.68	78.18	82.43	86.94	86.48	83.17	76.88	67.24	51.76	27.74
1596.3	97.6(94.2)	90.8	64.70	71.74	77.05	81.18	86.15	85.72	82.16	75.78	65.65	50.12	25.52
1655.1	96.6(93.3)	89.8	63.23	70.34	76.10	80.07	84.98	84.48	81.34	74.87	64.79	48.49	23.69

MIN NUMBER	
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INCH)	= 200.000
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 1304.000
PRIMARY PRESSURE RATIO	= 552.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= .341
MASS FLOW RATIO	= 2178.707
PRIMARY MASS FLOW (LB/SEC)	= 1.741
THRUST (LBS)	= .270
ENVIRONMENTAL TEMPERATURE (R)	= 30.389
ENVIRONMENTAL PRESSURE (IN.HG)	= 559.500
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.810
CALIBRATION FACTOR (MV TO JY/SQ CM)	= 20.000
INSTRUMENTATION NOISE FLOOR (DB)	= .252
	= 77.607

Reproduced from best available copy.

SONIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	9.22596E+01	149.7
500	8.51087E-02	119.3
1000	7.66356E-01	128.8
2000	4.75217E+00	136.8
4000	1.43811E+01	141.6
8000	3.34277E+01	145.2
16000	2.71600E+01	144.3
31500	1.16672E+01	140.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	174.4
20000	177.4
40000	180.4
80000	183.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.5	105.6	110.5	112.8	116.7	112.8	107.0	120.2
20.0	98.0	106.9	112.2	115.0	119.2	116.2	110.7	122.8
25.0	97.4	107.1	113.3	116.0	120.2	116.4	113.5	124.2
30.0	96.7	106.9	114.2	117.4	121.6	120.2	115.0	125.7
35.0	95.3	105.7	114.1	117.9	121.5	121.2	116.4	126.1
40.0	93.6	104.3	113.6	116.4	121.3	121.4	117.0	126.2
45.0	91.3	102.0	112.1	117.9	120.7	120.1	115.4	125.3
50.0	89.3	99.8	109.7	116.8	119.8	118.1	114.2	123.9
55.0	87.1	97.5	107.2	114.4	118.7	116.5	112.5	122.3
60.0	85.5	94.6	104.9	111.3	116.2	115.0	111.7	120.2
65.0	84.3	92.6	100.7	107.9	112.4	112.7	110.2	117.5
70.0	83.6	91.2	98.8	104.8	109.6	110.9	109.2	115.3
75.0	82.9	90.1	97.3	103.3	108.1	109.6	108.0	114.1
80.0	82.9	89.8	96.6	102.0	106.8	107.8	107.4	112.8
85.0	82.8	89.8	96.2	100.9	105.2	106.7	107.3	111.7
90.0	82.0	88.1	95.3	99.8	103.8	105.5	106.4	110.8
95.0	81.1	88.1	94.2	98.9	103.0	104.5	106.4	110.1
100.0	80.1	87.1	93.6	98.1	102.6	104.0	106.0	109.7
105.0	80.1	86.6	92.8	97.2	102.2	103.2	104.2	109.4
110.0	78.9	86.0	92.2	96.5	101.8	102.8	105.9	109.0
115.0	78.9	84.8	91.1	96.1	100.9	102.1	105.5	108.4

MODEL THRUST = 30.389 FULL SCALE THRUST = 20000.000

L*	PNDB*	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 19.5	39.0	78.0	155.9	311.8	623.7	1247.9	2495.8	4872.5	9745.0	19490.1
8796.4	95.9(95.3)	92.2	72.02	79.02	83.79	85.78	88.77	82.25	70.34	53.49	22.93	-31.02	-11-.41
4394.7	101.8(101.6)	97.3	73.91	82.80	87.98	90.53	94.03	89.07	78.92	65.44	41.58	.03	-44.83
3569.3	104.7(104.5)	100.6	75.18	84.80	90.95	93.49	97.09	93.62	85.04	73.56	53.68	19.48	-35.20
3000.0	106.8(107.5)	103.7	75.87	86.06	93.29	96.39	100.06	97.30	89.96	78.79	61.52	32.15	-14.53
2615.2	110.9(109.1)	105.4	75.67	86.07	94.46	96.03	101.27	99.76	92.16	82.91	67.47	41.49	-.40
2333.6	112.3(110.3)	106.4	75.00	85.82	94.43	96.59	102.14	101.20	94.24	85.68	71.59	48.07	11.10
2121.3	112.4(110.2)	106.6	73.68	86.19	94.22	96.95	102.39	100.40	94.32	86.25	73.16	51.52	17.43
1958.1	112.4(109.7)	105.0	72.17	82.59	92.58	94.56	102.25	99.63	93.64	85.96	73.65	53.43	21.92
1831.2	111.3(108.9)	103.0	70.62	80.47	90.67	92.76	101.76	98.72	92.78	85.40	73.69	54.60	24.93
1732.1	109.8(107.1)	101.3	69.42	78.53	87.98	90.13	99.72	97.81	92.61	85.47	74.24	56.01	27.79
1654.1	107.7(104.7)	101.0	68.67	78.04	85.24	92.12	98.77	95.92	91.68	84.73	73.86	56.31	29.21
1586.3	106.3(103.0)	99.0	68.29	75.83	83.44	89.31	93.93	94.44	91.08	84.26	73.67	56.44	30.40
1532.0	105.6(102.0)	94.0	67.77	75.04	82.21	88.08	92.59	93.42	90.80	84.09	73.70	57.05	31.44
1523.1	106.8(100.7)	94.7	67.94	74.84	81.84	86.98	91.21	91.85	90.85	83.21	72.97	56.58	31.40
1505.7	104.0(100.0)	95.9	67.21	74.15	81.35	85.96	89.98	90.42	89.50	82.90	72.74	56.50	31.54
1508.0	103.2(99.1)	94.9	67.45	73.92	80.53	84.90	89.01	89.63	88.96	82.36	72.22	56.04	31.20
1505.7	102.4(98.7)	94.2	66.30	73.28	79.31	83.54	87.83	88.63	88.90	82.30	72.14	55.90	30.98
1573.1	102.3(98.1)	93.7	65.18	72.22	78.48	82.45	87.33	88.06	88.40	81.76	71.52	55.13	29.65
1552.4	102.0(97.7)	93.1	65.01	71.42	77.66	81.47	86.73	87.83	88.37	81.66	71.27	54.62	29.01
1596.3	101.2(97.0)	92.4	63.61	71.72	76.40	81.32	86.64	86.33	87.79	83.96	70.37	53.34	27.13
1645.1	100.2(96.1)	91.5	63.29	69.10	75.46	80.32	84.89	85.27	86.98	80.02	69.15	51.60	24.53

RUN NUMBER	= 199.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1387.000
SECONDARY TEMPERATURE (R)	= 560.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .487
PRIMARY VELOCITY (FT/SEC)	= 2177.474
MASS FLOW RATIO	= 1.081
PRIMARY MASS FLOW (LB/SEC)	= .76M
THRUST (LBS)	= 27.701
ENVIRONMENTAL TEMPERATURE (R)	= 561.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.770
ENVIRONMENTAL HUMIDITY (PER CENT)	= 19.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .252
INSTRUMENTATION NOISE FLOOR (DB)	= 77.607

STIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	8.13744E+01	149.1
500	1.02225E-01	120.1
1000	9.66618E-01	129.9
2000	6.12726E+00	137.9
4000	1.68955E+01	142.3
8000	2.76071E+01	144.4
16000	2.00695E+01	143.0
31500	9.60582E+00	139.8

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	174.7
20000	177.7
40000	180.7
80000	183.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	99.1	106.3	109.5	110.5	110.5	107.1	101.6	116.3
20.0	98.7	107.8	113.2	115.2	116.0	112.2	106.8	120.8
25.0	98.4	107.6	113.8	116.5	117.2	113.7	108.3	122.0
30.0	97.4	108.1	115.3	118.1	118.9	116.0	111.3	123.8
35.0	96.2	106.9	115.3	118.1	119.6	117.8	112.8	124.4
40.0	94.9	105.5	115.1	119.3	120.6	119.6	115.1	125.6
45.0	92.4	103.5	113.4	118.8	120.6	119.7	116.1	125.5
50.0	89.6	100.9	111.3	118.1	120.7	119.0	115.5	125.9
55.0	87.1	98.1	108.3	115.7	119.1	116.5	112.1	122.7
60.0	85.5	94.6	103.9	110.7	115.6	114.6	111.6	119.7
65.0	84.3	92.6	101.0	107.4	112.1	112.4	110.5	117.1
70.0	83.6	91.5	98.6	104.5	109.3	110.1	109.3	114.9
75.0	83.6	90.1	97.3	102.5	107.0	108.1	108.0	113.1
80.0	83.6	90.5	97.0	101.7	105.8	107.1	107.7	112.3
85.0	82.4	90.1	96.4	100.6	104.4	106.5	107.0	111.5
90.0	82.9	89.4	95.3	99.7	103.7	106.0	106.5	110.9
95.0	82.0	89.0	94.2	98.7	103.4	105.5	106.0	110.3
100.0	82.0	88.1	93.9	98.3	102.5	105.0	105.5	109.8
105.0	81.1	87.6	93.1	97.5	102.0	104.5	105.4	109.4
110.0	80.1	86.6	92.5	96.8	101.5	104.0	105.0	108.9
115.0	78.9	86.0	91.5	96.3	101.1	103.5	104.9	108.6

MODEL THRUST = 27.701 FULL SCALE THRUST = 20000.000

L.	PWDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 18.6	37.2	74.4	148.9	297.7	595.5	1172.3	2344.6	4652.0	9304.1	18608.1
795.6	91.4(90.9)	89.3	72.93	80.13	83.30	83.93	83.05	77.20	65.95	49.78	20.41	-31.67	-116.53
785.7	99.6(98.8)	96.2	74.98	84.06	89.36	91.15	91.27	85.63	75.84	62.87	39.92	-.22	-65.17
549.1	103.2(102.1)	99.3	76.56	85.71	91.91	94.35	94.53	89.51	80.53	69.46	50.31	17.26	-35.47
300.0	107.0(105.6)	102.6	77.04	87.73	94.86	97.51	97.79	93.66	85.95	76.17	59.51	31.11	-14.26
315.2	109.3(107.6)	104.4	76.97	87.66	96.06	98.67	99.75	96.91	89.23	80.29	65.39	40.25	.71
533.4	111.6(109.8)	106.6	76.68	87.28	96.86	100.94	101.85	99.84	93.02	84.72	71.10	48.34	12.38
121.9	113.0(110.7)	107.3	75.01	86.11	95.98	101.30	102.93	100.89	95.18	87.36	74.70	53.74	20.78
358.1	113.4(111.0)	107.5	72.94	84.21	94.61	101.31	103.53	101.64	96.54	88.09	76.18	56.60	25.95
331.2	111.8(109.5)	106.0	71.02	81.97	92.14	99.49	102.58	99.23	92.92	85.76	74.43	55.92	27.06
332.1	109.8(106.9)	103.3	69.92	78.93	88.20	96.98	99.55	97.84	93.14	86.21	75.33	57.66	30.20
355.1	108.9(106.8)	101.1	69.07	77.39	85.76	94.98	96.44	96.10	92.53	85.77	75.24	58.23	31.85
596.3	106.4(102.9)	99.1	68.69	76.55	83.69	89.50	93.99	94.17	91.77	85.14	74.88	58.36	32.42
352.9	105.2(101.3)	97.5	68.93	75.45	82.62	87.70	91.91	92.44	90.79	84.27	74.20	58.05	33.12
523.1	104.9(100.8)	96.9	69.10	75.97	82.43	87.09	90.96	91.80	90.84	84.18	74.25	58.35	33.84
505.7	104.3(100.1)	96.1	68.44	75.71	81.95	86.12	89.61	91.15	90.14	83.71	73.86	58.11	33.84
500.8	103.8(99.6)	95.6	66.48	74.49	80.94	85.19	88.45	90.66	89.67	83.26	73.44	57.74	33.55
505.7	103.2(99.0)	95.0	67.62	74.55	79.71	84.21	88.64	90.14	89.09	82.67	72.92	57.07	32.80
523.1	102.8(98.3)	94.3	67.52	73.59	79.36	83.07	87.65	89.52	88.49	82.03	72.18	56.28	31.89
552.9	102.8(97.7)	93.7	66.43	72.95	78.36	82.72	86.94	88.88	88.17	81.64	71.58	55.63	30.69
546.3	101.2(97.0)	93.0	65.17	71.88	77.52	81.40	86.24	88.08	87.48	80.83	70.57	54.05	29.50
845.1	100.4(96.3)	92.2	63.70	70.81	76.72	80.93	85.44	87.20	86.94	80.18	69.65	52.64	28.26

RUN NUMBER	= 201.000
AXIAL POSITION OF PRIMARY NOZ, SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1313.000
SECONDARY TEMPERATURE (R)	= 541.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .477
PRIMARY VELOCITY (FT/SEC)	= 2182.467
MASS FLOW RATIO	= 2.273
PRIMARY MASS FLOW (LB/SEC)	= .272
THRUST (LBS)	= 38.165
ENVIRONMENTAL TEMPERATURE (R)	= 556.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.610
ENVIRONMENTAL HUMIDITY (PER CENT)	= 20.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .282
INSTRUMENTATION NOISE FLOOR (DB)	= 78.584

STIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.21670E+02	150.9
500	1.59104E-01	122.0
1000	1.27118E+00	131.0
2000	7.63639E+00	138.8
4000	2.13475E+01	143.3
8000	4.46155E+01	146.5
16000	3.23204E+01	145.1
31500	1.43136E+01	141.6

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	175.0
20000	179.0
40000	181.1
80000	184.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	102.7	107.6	111.2	114.0	116.0	110.7	105.3	120.0
20.0	101.0	109.2	114.3	117.1	119.8	115.1	109.9	123.5
25.0	100.3	109.5	115.2	118.5	121.7	117.5	112.8	125.3
30.0	99.0	108.4	115.3	118.7	122.2	118.7	119.5	125.8
35.0	97.5	108.2	116.5	119.5	123.0	121.3	116.7	127.2
40.0	95.9	106.9	116.2	120.1	123.0	121.9	117.2	127.4
45.0	93.9	104.0	113.6	119.4	122.0	121.3	116.8	126.6
50.0	91.6	102.3	112.1	118.4	121.1	119.4	115.5	125.3
55.0	89.4	99.5	109.9	116.7	120.1	118.0	114.2	124.0
60.0	87.1	96.8	108.2	113.1	117.8	115.6	112.8	121.2
65.0	86.5	94.4	103.0	109.4	113.7	113.7	111.9	118.7
70.0	85.3	92.8	100.4	106.4	111.0	111.8	110.3	116.6
75.0	87.1	92.1	98.8	104.9	109.6	111.0	110.4	115.6
80.0	84.6	91.1	98.1	103.7	107.9	109.8	109.5	114.4
85.0	83.0	90.4	97.6	102.4	107.1	109.1	108.6	113.5
90.0	83.8	90.4	96.5	101.3	105.7	108.6	107.8	112.7
95.0	83.0	89.5	96.1	100.5	106.0	108.9	107.9	112.9
100.0	83.0	88.6	95.1	99.7	106.1	108.5	107.0	112.5
105.0	82.1	88.1	94.3	98.8	105.4	109.3	107.1	112.6
110.0	81.1	87.6	93.4	98.7	105.8	109.6	106.8	112.7
115.0	81.1	87.0	92.8	97.8	105.0	109.1	106.5	112.2

MODEL THRUST = 38.165 FULL SCALE THRUST = 20000.000

L.	PNDR.	OASPL	21.8	OCTAVE	43.7	BAND	87.4	SOUND	174.7	PRESSURE	349.5	LEVELS	698.9	1376.0	2752.0	5460.4	10920.8	21841.6
15.6	94.6(94.2)	91.1	75.13		80.03		83.51		85.92		86.76		78.41	66.05	47.39	13.74	-45.01	-138.77
15.7	101.5(100.9)	97.2	75.86		84.05		89.11		91.55		93.44		86.42	75.91	61.06	34.86	-10.32	-82.01
19.3	105.9(104.9)	100.8	77.02		86.25		91.88		94.88		97.40		91.30	82.28	69.70	47.93	10.78	-47.80
18.0	109.4(107.2)	102.9	77.20		86.55		93.01		96.59		99.48		94.49	86.66	75.55	56.69	24.83	-25.15
15.7	111.2(109.8)	105.4	76.89		87.40		95.81		98.67		101.61		98.59	90.81	80.74	63.91	35.76	-9.20
13.6	112.7(111.0)	106.7	76.26		87.23		96.49		100.27		102.66		100.39	92.86	83.56	68.22	42.77	3.23
11.3	112.8(111.0)	106.7	75.10		85.22		95.00		100.39		102.59		100.76	93.75	85.02	70.80	47.39	11.17
10.1	112.5(110.6)	106.3	73.55		84.20		93.97		100.08		102.40		99.74	93.47	85.18	71.82	49.99	16.32
11.2	112.0(109.9)	105.6	71.95		81.98		92.37		99.01		102.03		99.98	93.01	85.06	72.38	51.76	20.09
12.1	109.9(107.6)	103.2	70.07		79.73		89.16		95.91		99.65		97.17	92.31	84.63	72.47	52.81	22.68
13.1	108.0(105.3)	101.0	69.90		77.75		86.32		92.44		96.55		95.74	91.92	84.45	72.69	53.77	24.85
16.3	100.6(103.6)	99.1	68.97		76.43		84.00		89.95		94.20		94.14	91.24	83.93	72.48	54.13	26.13
12.9	100.2(103.2)	98.8	71.02		76.05		82.71		88.69		93.03		93.62	91.16	83.94	72.73	54.79	27.47
13.1	105.4(102.3)	97.3	68.69		75.20		82.18		87.69		91.57		92.61	90.51	83.40	72.34	54.69	27.84
15.7	104.5(101.4)	96.4	67.20		74.54		81.72		86.44		90.83		92.08	89.55	82.48	71.52	54.03	27.45
18.0	103.8(100.7)	95.7	68.06		74.57		80.73		85.36		89.46		91.42	88.96	81.89	70.96	53.53	27.04
15.7	103.9(100.7)	95.9	67.20		73.71		80.24		84.59		89.14		91.03	89.06	82.08	71.03	53.55	26.97
13.1	103.0(99.9)	95.4	67.10		72.70		79.19		83.66		88.73		91.40	89.37	82.35	69.80	52.15	25.29
12.9	103.8(100.6)	95.2	66.02		72.03		78.22		82.59		88.90		91.95	87.83	80.64	69.42	51.69	24.17
16.3	102.7(99.8)	95.1	64.76		71.27		77.89		82.19		88.97		91.97	87.22	79.91	68.47	50.12	22.12
15.1	101.8(98.9)	94.2	64.44		70.39		76.13		81.02		87.89		91.87	86.50	79.83	67.28	48.36	19.44

NOZZLE NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 202.00 (746.00)
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 1313.000
PRIMARY PRESSURE RATIO	= 541.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 4.856
PRIMARY VELOCITY (FT/SEC)	= .376
MASS FLOW RATIO	= 2182.867
PRIMARY MASS FLOW (LB/SEC)	= 3.842
THRUST (LBS)	= .270
ENVIRONMENTAL TEMPERATURE (R)	= 44.777
ENVIRONMENTAL PRESSURE (IN.HG)	= 550.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.610
CALIBRATION FACTOR (MV TO DY/S) C4)	= 24.000
INSTRUMENTATION NOISE FLOOR (DB)	= .178
	= 74.588

STIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.10522E+01	146.1
500	1.87654E-01	122.7
1000	1.29810E+00	131.1
2000	5.35091E+00	137.3
4000	1.10734E+01	140.4
8000	1.38444E+01	141.4
16000	6.88617E+00	138.4
31500	2.37126E+00	133.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	169.6
20000	172.6
40000	175.6
80000	178.7

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	102.8	107.3	109.4	109.2	105.8	100.8	94.9	116.7
20.0	102.8	109.3	112.5	113.0	110.5	101.8	94.6	117.9
25.0	102.1	110.0	114.5	115.4	113.3	104.1	96.4	120.0
30.0	100.4	109.7	115.0	115.5	114.2	106.4	98.6	120.4
35.0	80.6	108.0	114.9	117.0	116.3	110.0	101.8	121.5
40.0	97.2	106.5	114.5	117.5	117.9	114.3	106.0	122.6
45.0	94.7	103.5	112.4	117.3	118.6	116.0	109.3	122.9
50.0	91.9	101.2	110.0	116.2	118.2	115.2	109.4	122.1
55.0	89.4	97.7	105.8	112.3	115.6	112.7	107.4	119.1
60.0	88.0	95.4	103.3	109.2	112.5	110.7	104.9	116.6
65.0	87.6	93.8	100.2	105.2	108.6	107.8	106.2	113.5
70.0	86.2	92.8	98.1	102.6	105.8	105.5	105.3	111.3
75.0	86.2	92.4	97.0	100.8	103.6	104.1	104.0	109.7
80.0	85.9	91.3	96.4	99.8	102.5	103.6	103.0	108.8
85.0	85.5	90.4	95.3	98.7	101.4	102.8	102.0	107.9
90.0	85.5	90.1	95.0	97.7	100.9	102.0	101.2	107.2
95.0	84.6	89.1	94.0	97.0	100.0	101.5	100.8	106.5
100.0	84.6	88.5	93.2	96.4	99.8	101.0	100.0	106.0
105.0	82.5	88.1	93.0	96.4	99.2	100.8	99.9	105.7
110.0	81.9	87.8	92.1	96.1	99.0	100.5	99.5	105.4
115.0	81.3	87.1	91.6	95.9	98.9	100.0	99.1	105.0

MODEL THRUST = 44.777 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	23.7	OCTAVE 47.3	BAND 94.6	SOUND 189.3	PRESSURE 378.5	LEVELS 757.1	1490.5	2980.9	5914.6	11829.1	23658.3
5.6	86.6(86.4)	85.9	74.54	79.07	80.99	80.34	75.62	67.28	53.41	33.59	-2.39	-64.67	-163.83
5.7	93.0(92.6)	91.5	76.97	83.43	86.60	86.72	83.27	72.03	58.97	43.09	15.13	-32.73	-107.89
5.3	97.6(97.1)	95.5	78.16	86.03	90.46	91.04	88.19	76.89	64.44	51.01	27.82	-11.49	-72.09
0.0	100.2(99.6)	97.4	77.96	87.18	92.41	92.64	90.76	81.18	69.38	57.57	37.50	3.81	-48.55
5.2	103.3(102.5)	99.7	59.30	86.72	93.48	95.43	94.13	86.28	74.60	63.52	46.04	16.29	-29.74
5.4	106.4(105.4)	101.6	76.87	86.15	94.14	96.94	96.80	91.82	80.43	70.57	54.79	27.42	-13.67
1.3	108.2(106.8)	102.6	75.24	84.04	92.87	97.58	98.37	94.62	85.01	75.78	60.71	36.01	-1.89
9.1	108.5(107.0)	102.5	73.10	82.44	91.12	97.22	98.81	96.02	86.17	77.41	63.27	40.24	5.02
1.2	108.5(106.8)	100.1	71.18	79.47	87.55	93.84	96.78	92.84	85.11	76.73	63.31	41.58	8.45
2.1	104.7(102.7)	97.9	70.24	77.63	85.54	91.32	94.24	91.37	85.24	77.15	64.30	43.58	12.08
5.1	102.4(100.0)	95.1	70.32	76.50	82.87	87.71	90.78	88.98	85.13	77.27	64.46	44.93	14.69
4.3	101.0(98.4)	93.1	69.24	75.75	81.07	85.43	88.23	87.07	84.71	77.02	64.44	45.61	16.34
2.9	99.9(97.3)	91.7	69.48	75.60	80.21	83.42	86.33	85.90	83.75	76.19	64.36	45.47	16.92
3.1	99.2(96.5)	91.1	69.26	74.72	79.71	83.07	85.41	85.60	82.95	75.47	63.90	45.22	17.16
5.7	98.4(95.6)	90.2	68.95	73.88	78.77	82.03	84.43	84.96	82.11	74.68	63.12	44.71	16.94
3.0	97.7(95.0)	89.6	68.90	73.66	78.48	81.11	83.96	84.17	81.40	73.99	62.46	44.11	16.43
5.7	97.8(94.3)	88.8	68.09	72.54	77.40	80.37	83.00	83.60	80.89	73.46	61.90	43.69	15.72
3.1	96.3(93.6)	88.2	67.99	71.44	76.53	79.63	82.69	81.61	80.00	72.53	60.86	42.28	14.22
2.9	95.8(93.1)	87.7	65.76	71.36	76.16	79.46	81.89	82.41	79.64	72.08	60.24	41.34	12.90
3.3	95.1(92.4)	87.1	64.93	70.79	75.65	78.95	81.42	82.03	78.90	71.21	59.13	39.80	10.53
5.1	94.2(91.6)	86.4	63.97	69.78	74.26	78.35	80.98	81.13	78.03	70.16	57.75	37.82	7.99

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 204.000
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 1310.000
PRIMARY PRESSURE RATIO	= 540.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 9.788
PRIMARY VELOCITY (FT/SEC)	= .377
MASS FLOW RATIO	= 2180.372
PRIMARY MASS FLOW (LB/SEC)	= 7.290
THRUST (LBS)	= .270
ENVIRONMENTAL TEMPERATURE (R)	= 68.470
ENVIRONMENTAL PRESSURE (IN.HG)	= 542.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.930
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 25.000
INSTRUMENTATION NOISE FLOOR (DB)	= .199
	= 75.578

C POWER AND SOUND POWER LEVEL FOR MODEL JET

QUENCY.	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
ERALL	6.15112E+01	147.9	THRUST	POWER LEVEL(DB)
500	2.32433E-01	123.7	10000	169.5
1000	1.21743E+00	130.9	20000	172.5
2000	4.17406E+00	136.2	40000	175.6
4000	9.37390E+00	139.7	80000	178.6
8000	1.88630E+01	142.8		
16000	1.66178E+01	142.2		
31500	1.10326E+01	140.4		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

GLE	OCTAVE BAND SOUND PRESSURE LEVELS							OVER
(DB)	500	1000	2000	4000	8000	16000	31500	ALL
5.0	103.9	108.8	108.7	108.7	112.1	111.3	105.9	117.6
0.0	103.2	108.9	110.6	111.2	114.6	113.9	108.3	119.8
5.0	101.9	109.9	112.6	113.3	116.3	115.1	109.6	121.3
0.0	100.6	108.5	113.4	114.1	116.7	116.3	111.1	122.0
5.0	98.8	107.4	113.6	115.4	117.2	116.2	112.7	122.5
0.0	97.0	105.3	112.8	116.8	118.4	117.4	114.0	123.4
5.0	94.6	103.0	111.2	116.5	119.0	117.5	114.0	123.5
0.0	92.3	101.3	109.2	115.5	119.4	117.9	114.2	123.4
5.0	90.4	98.7	106.5	112.3	116.8	116.2	113.7	121.3
0.0	89.5	96.9	103.8	109.4	114.0	114.0	112.3	119.0
5.0	88.9	95.8	101.6	106.3	110.8	112.0	111.9	116.9
0.0	87.6	94.7	100.4	104.7	108.6	109.9	110.6	115.2
5.0	88.0	93.4	99.1	103.1	107.2	109.1	110.6	114.5
0.0	88.0	93.0	98.3	102.1	105.2	107.7	110.0	113.4
5.0	87.2	92.1	97.2	101.1	104.2	106.8	110.3	113.0
0.0	86.4	93.6	96.6	100.1	103.3	106.0	109.2	112.1
5.0	86.0	91.1	95.8	99.0	102.4	105.0	108.0	111.0
0.0	85.1	90.6	95.7	98.4	102.0	104.9	107.7	110.7
5.0	84.1	89.7	94.6	97.5	101.5	104.8	107.0	110.2
0.0	85.1	90.0	94.2	97.1	101.0	104.7	107.0	110.1
5.0	83.5	88.5	93.3	96.4	101.0	104.7	107.0	110.0

MODEL THRUST = 68.470 FULL SCALE THRUST = 20000.000

	PNDB.	OASPL		OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
			29.3	58.5	117.0	234.0	468.1	936.2	1843.1	3686.2	7313.8	14627.6	29255.3
6	88.8(88.6)	85.1	73.85	77.83	78.32	77.71	79.39	74.11	58.87	34.71	-8.08	-80.42	-191.40
7	94.7(94.3)	90.0	75.58	81.21	82.78	82.92	84.92	80.90	67.80	48.79	15.68	-39.80	-124.50
3	98.9(98.3)	93.7	76.07	84.66	86.68	86.97	88.83	85.01	73.40	57.43	30.07	-15.40	-84.52
0	101.6(100.8)	96.0	76.25	84.16	88.91	89.34	91.02	88.25	78.01	64.06	40.46	1.57	-57.32
2	103.8(102.8)	97.7	75.65	84.25	90.38	91.80	92.82	89.86	81.85	69.30	48.35	14.06	-37.66
6	106.1(104.9)	99.0	74.87	83.08	90.55	94.28	95.20	92.43	84.99	73.46	54.44	23.52	-22.95
3	107.5(106.1)	100.7	73.32	81.69	89.73	94.87	96.73	93.53	87.04	76.34	58.77	30.39	-12.13
1	108.3(106.8)	101.3	71.63	80.68	88.53	94.54	97.87	94.88	87.81	77.66	61.22	34.79	-4.69
2	107.0(105.2)	99.6	70.32	78.40	86.38	92.01	95.89	93.93	88.24	78.55	62.98	38.07	.96
1	105.6(103.7)	97.7	69.98	77.31	84.14	89.57	93.62	92.35	87.64	78.32	63.43	39.70	4.43
1	104.9(102.9)	95.8	69.78	76.58	82.34	88.92	90.86	90.81	87.86	78.82	64.46	41.65	7.82
3	103.9(101.8)	94.4	68.75	75.78	81.46	85.65	89.07	89.08	87.07	78.24	64.29	42.19	9.45
9	103.9(101.6)	93.8	69.34	74.74	80.43	84.29	87.88	88.40	87.44	78.77	65.11	43.53	11.60
1	103.3(100.9)	92.8	69.51	74.50	79.76	83.38	86.09	87.40	87.12	78.55	65.10	43.87	12.50
7	103.3(100.9)	92.4	68.89	73.73	78.79	82.51	85.18	86.62	87.54	79.04	65.70	44.69	13.64
0	102.4(99.9)	91.5	68.13	75.24	78.39	81.54	84.29	85.84	86.45	77.97	64.67	43.73	12.78
7	101.2(99.7)	90.4	67.67	72.77	77.40	80.37	83.39	84.82	85.29	76.70	63.37	42.35	11.30
1	100.7(98.3)	90.0	66.66	72.14	77.14	79.70	82.86	84.56	84.82	76.25	62.80	41.57	10.20
9	99.8(97.4)	89.2	65.47	71.12	75.88	78.67	82.14	84.29	83.81	75.14	61.48	39.90	7.47
3	99.4(97.0)	88.8	66.25	71.17	75.24	78.02	81.41	83.92	83.51	74.68	60.72	38.62	5.88
1	98.7(96.4)	88.2	64.35	69.27	74.08	76.99	81.09	83.54	82.96	73.91	59.55	36.75	2.91

RUN NUMBER	
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS.)	= 205.000
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 1314.000
PRIMARY PRESSURE RATIO	= 542.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 9.788
PRIMARY VELOCITY (FT/SEC)	= .478
MASS FLOW RATIO	= 2181.699
PRIMARY MASS FLOW (LB/SEC)	= 10.080
THRUST (LBS)	= .270
ENVIRONMENTAL TEMPERATURE (R)	= 106.454
ENVIRONMENTAL PRESSURE (IN.HG)	= 535.000
ENVIRON-ENTAL HUMIDITY (PER CENT)	= 29.530
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 53.000
INSTRUMENTATION NOISE FLOOR (DB)	= .199
	= 75.578

POWER AND SOUND POWER LEVEL FOR MODEL JET

QUENCY	POWER(WATTS)	POWER LEVEL(DB)
ERALL	6.63580E+01	148.2
500	6.60242E-01	128.2
1000	3.36539E+00	1 .3
2000	7.47541E+00	138.7
4000	1.14706E+01	140.6
8000	1.88342E+01	142.6
16000	1.61594E+01	142.1
31500	9.19252E+00	139.6

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	167.9
20000	171.0
40000	174.0
80000	177.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

LE	OCTAVE BAND SOUND PRESSURE LEVELS							OVER
(B)	500	1000	2000	4000	8000	16000	31500	ALL
5.0	108.9	112.8	111.8	115.7	112.2	110.1	104.8	120.4
0.0	107.8	113.7	113.8	112.1	114.5	113.4	108.0	121.0
5.0	106.7	114.6	115.0	113.4	115.5	115.0	110.1	122.1
0.0	104.6	113.3	115.9	114.9	116.1	115.1	110.3	122.5
5.0	103.0	111.7	116.0	116.2	117.0	117.2	113.2	123.4
0.0	101.1	109.5	115.2	116.8	117.4	116.3	113.0	123.2
5.0	98.9	107.1	113.4	116.8	117.8	116.4	113.6	123.1
0.0	96.4	104.2	111.0	115.7	118.4	116.3	113.0	122.7
5.0	94.6	101.9	108.9	113.3	116.8	115.9	113.0	121.4
0.0	93.8	100.7	106.6	110.7	114.3	114.2	112.3	119.4
5.0	94.0	99.1	104.5	108.3	111.5	112.0	111.7	117.5
0.0	93.3	98.9	103.8	106.9	110.1	110.7	110.1	116.1
5.0	92.7	98.0	102.6	105.6	108.6	109.9	109.3	115.1
0.0	92.3	97.5	102.1	104.9	107.5	109.3	108.2	114.2
5.0	91.8	96.6	101.2	104.0	106.7	108.9	107.5	113.5
0.0	90.9	95.9	100.2	102.9	106.1	108.6	107.5	113.1
5.0	90.9	95.3	99.6	102.0	105.6	107.6	107.0	112.4
0.0	89.5	95.0	99.2	101.5	105.6	107.4	106.8	112.2
5.0	89.5	94.7	98.6	101.0	105.6	107.3	106.3	112.0
0.0	88.3	94.3	98.3	100.8	106.3	107.5	106.3	112.2
5.0	88.3	93.4	97.6	100.6	106.8	107.4	105.6	112.0

MODEL THRUST = 106.454 FULL SCALE THRUST = 20000.000

	PNDB,	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS								
			36.5	73.0	145.9	291.8	583.7	1167.3	2298.1	4596.3	9119.6	18239.2	36478.3
6	89.9(89.8)	86.8	76.88	80.56	79.46	82.46	76.57	68.59	50.58	21.29	-29.58	-113.35	-237.86
7	93.2(92.9)	89.6	78.25	84.06	83.89	81.52	82.16	76.69	61.67	38.78	-.45	-64.57	-159.52
3	97.0(96.7)	92.7	73.96	86.78	87.03	84.46	85.58	81.43	68.81	49.72	17.40	-35.07	-112.48
0	99.5(99.0)	94.7	78.35	86.98	89.44	87.94	87.99	83.93	72.60	56.00	28.21	-16.60	-82.49
2	102.3(101.6)	96.6	77.92	86.59	90.78	90.54	90.27	87.82	78.11	63.26	38.65	-.80	-58.62
6	103.6(102.8)	97.5	77.06	85.36	90.98	92.22	91.90	88.36	79.99	66.41	44.13	8.61	-43.32
3	104.7(103.8)	98.1	75.64	83.79	90.02	93.12	93.18	89.65	82.26	69.64	49.12	14.55	-38.92
1	105.4(104.4)	98.4	73.84	81.67	88.33	92.72	94.60	90.59	82.99	71.11	51.93	21.64	-22.61
2	104.9(103.7)	97.6	72.68	79.87	86.79	90.97	93.72	90.92	84.05	72.75	54.62	26.10	-15.29
1	104.0(102.7)	95.9	72.32	79.16	84.96	88.82	91.75	89.90	84.17	73.32	56.01	28.87	-10.44
1	103.4(102.0)	94.2	72.49	77.97	83.35	86.84	89.61	88.21	84.31	73.81	57.13	31.07	-6.63
3	102.4(101.0)	93.2	72.48	76.08	82.90	85.41	88.29	87.32	83.26	73.00	56.81	31.57	-4.90
9	101.9(100.4)	92.4	72.14	77.44	82.00	84.96	87.19	86.85	82.83	72.79	56.96	32.32	-3.24
1	101.2(99.7)	91.8	71.89	77.14	81.62	84.22	86.21	86.42	82.05	72.15	56.57	32.34	-2.60
7	100.6(99.1)	91.2	71.56	76.33	80.47	83.39	85.50	86.20	81.52	71.69	56.25	32.27	-2.30
6	100.4(98.8)	90.7	70.65	75.86	79.86	82.38	84.91	85.89	81.51	71.71	56.32	32.41	-2.04
7	99.7(98.1)	89.9	70.62	75.02	79.20	81.39	84.37	84.83	80.95	71.12	55.68	31.70	-2.87
1	99.3(97.7)	89.6	69.18	74.00	78.76	80.31	84.26	84.54	80.58	70.68	55.04	30.87	-4.07
9	98.7(97.2)	89.3	69.01	74.09	78.01	80.13	84.30	84.27	79.82	69.78	53.95	29.31	-6.25
3	98.3(96.8)	89.1	67.53	73.51	77.40	79.70	84.57	84.12	79.41	69.18	52.99	27.74	-8.72
1	97.4(96.0)	88.7	67.21	72.26	76.42	79.20	84.63	83.60	78.22	67.71	51.04	24.97	-12.73

RUN NUMBER	219.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INCH)	9.500
PRIMARY TEMPERATURE (R)	530.000
SECONDARY TEMPERATURE (R)	530.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	1.000
VELOCITY RATIO	.346
PRIMARY VELOCITY (FT/SEC)	897.287
MASS FLOW RATIO	.321
PRIMARY MASS FLOW (LBM/SEC)	.207
THRUST (LBS)	6.404
ENVIRONMENTAL TEMPERATURE (R)	524.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	60.000
CALIBRATION FACTOR (MV TO DYNS CM)	.007
INSTRUMENTATION NOISE FLOOR (DB)	60.005

Reproduced from best available copy.

ISTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.44062E-02	118.7
500	6.92732E-04	98.4
1000	3.78511E-03	105.8
2000	1.73424E-02	112.4
4000	2.02407E-02	113.1
8000	1.85394E-02	112.7
16000	9.39485E-03	109.7
31500	4.40089E-03	106.4

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	150.7
20000	153.7
40000	156.7
80000	159.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	77.7	85.6	91.5	89.4	84.2	76.5	69.7	94.8
20.0	76.6	84.7	91.2	90.3	85.3	77.9	72.2	95.0
25.0	75.3	83.7	90.1	89.6	86.3	79.7	74.1	94.4
30.0	73.9	82.2	89.2	89.5	87.7	82.2	77.0	94.3
35.0	72.6	80.4	87.5	88.5	87.9	83.3	78.3	93.6
40.0	70.8	78.1	85.4	86.9	87.2	83.0	79.4	92.5
45.0	70.0	76.6	83.7	85.3	85.0	83.4	79.6	91.2
50.0	68.3	74.8	82.3	84.1	85.0	82.6	79.4	90.2
55.0	67.3	74.1	81.1	83.2	84.2	82.1	78.9	89.4
60.0	67.9	73.3	80.0	82.1	83.3	81.4	78.5	88.6
65.0	66.6	72.5	79.1	81.3	82.7	80.7	77.8	87.8
70.0	66.3	71.9	79.1	80.7	82.0	80.2	77.5	87.2
75.0	65.3	71.3	77.5	80.1	81.2	79.5	76.9	86.5
80.0	65.2	71.3	77.1	79.6	80.7	79.0	76.4	86.0
85.0	64.3	70.6	76.6	79.1	80.6	78.7	76.0	85.7
90.0	64.5	70.3	76.1	78.5	79.8	78.0	75.5	85.1
95.0	63.7	69.7	75.4	78.0	79.7	77.8	75.3	84.7
100.0	63.9	69.6	74.9	77.6	79.1	77.4	74.9	84.3
105.0	62.8	69.5	74.8	77.2	78.7	76.5	74.4	83.8
110.0	62.8	69.0	74.4	76.7	78.0	76.2	74.0	83.3
115.0	62.4	68.6	73.8	76.2	77.8	75.6	73.8	82.9

MODEL THRUST = 6.404 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	8.9	OCTAVE 17.9	BAND 35.8	SOUND 71.6	PRESSURE 143.2	LEVELS 286.3	563.7	1127.3	2236.7	4473.4	8946.9
795.4	68.0(67.0)	75.0	57.96	65.79	71.74	69.56	64.03	55.48	46.42	37.82	22.41	-6.20	-56.73
685.7	72.4(71.0)	77.5	59.26	67.33	73.84	72.43	67.62	59.65	52.19	44.95	32.56	10.19	-24.74
549.3	75.7(73.9)	78.8	59.82	68.17	74.61	74.02	70.59	63.47	56.67	50.64	39.44	20.76	-11.15
388.0	79.1(76.9)	80.2	59.91	68.17	75.17	75.36	73.47	67.53	61.19	55.29	45.46	29.61	2.00
315.2	80.9(78.3)	81.6	59.76	67.56	74.83	75.42	74.97	69.92	63.90	58.37	49.77	35.22	10.77
333.4	81.3(79.0)	83.5	59.00	66.28	73.70	75.14	75.19	71.52	66.18	60.92	52.93	39.62	17.48
121.3	82.4(79.1)	80.1	58.49	65.55	72.64	74.21	74.72	71.93	67.30	62.25	54.71	42.34	21.44
358.1	82.6(79.9)	79.8	57.96	64.42	71.93	73.74	74.58	71.86	68.04	63.15	55.95	44.30	25.24
331.2	82.6(78.9)	79.6	57.54	64.22	71.36	73.66	74.30	71.97	68.08	63.31	56.39	45.30	27.28
732.1	82.0(78.7)	79.2	57.75	64.06	70.75	72.80	73.93	71.91	68.20	63.52	56.82	46.16	28.96
655.1	82.3(78.3)	78.9	57.72	63.64	70.25	72.43	73.75	71.44	67.94	63.33	56.79	46.48	29.90
596.3	82.1(78.0)	78.6	57.74	63.39	69.54	72.13	73.33	71.27	67.94	63.40	56.98	46.93	30.84
552.9	81.7(77.6)	78.1	57.53	63.03	69.16	71.70	72.80	70.81	67.63	63.13	56.81	46.95	31.21
523.1	81.5(77.2)	77.8	57.33	63.20	68.93	71.38	72.41	70.55	67.36	62.89	56.63	46.90	31.41
505.7	81.2(77.0)	77.6	56.23	62.46	68.55	71.07	72.10	70.31	67.07	62.62	56.39	46.74	31.39
508.8	80.6(76.3)	77.0	56.45	62.30	68.08	70.66	71.71	69.66	66.60	62.15	55.94	46.32	31.01
505.7	80.1(76.0)	76.7	55.46	61.66	67.33	69.98	71.56	69.40	66.39	61.94	55.71	46.05	30.71
523.1	79.7(75.6)	76.3	56.75	61.66	66.78	69.62	70.43	68.89	66.03	61.35	55.09	45.39	29.87
552.9	79.0(74.9)	75.5	54.53	61.15	65.64	68.93	70.31	67.85	65.14	60.06	54.33	44.47	28.74
596.3	78.1(73.9)	74.7	54.29	60.47	65.03	68.15	69.37	67.33	64.63	59.95	53.53	43.48	27.59
655.1	77.0(73.1)	74.2	53.62	59.66	64.28	67.28	68.59	66.59	63.93	59.33	52.79	42.68	26.90

RUN NUMBER	= 816.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCHES)	= 4.000
PRIMARY TEMPERATURE (R)	= 520.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 1.000
VELOCITY RATIO	= .697
PRIMARY VELOCITY (FT/SEC)	= 894.891
MASS FLOW RATIO	= .424
PRIMARY MASS FLOW (LB/SEC)	= .287
THRUST (LBS)	= 9.055
ENVIRONMENTAL TEMPERATURE (R)	= 524.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.478
ENVIRONMENTAL HUMIDITY (PER CENT)	= 60.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .007
INSTRUMENTATION NOISE FLOOR (DB)	= 66.905

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.43175E-02	118.7
500	6.91846E-03	108.4
1000	4.25941E-03	106.3
2000	1.63763E-02	112.1
4000	1.72206E-02	112.4
8000	1.51665E-02	111.8
16000	8.55465E-03	109.3
31500	5.82154E-03	107.7

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	149.1
20000	152.2
40000	155.2
80000	158.2

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	79.1	85.8	91.0	87.7	80.6	73.4	73.8	93.9
20.0	78.1	85.5	90.8	88.6	82.6	75.2	74.3	94.1
25.0	77.2	83.9	89.9	88.6	84.7	77.9	75.3	93.8
30.0	74.8	82.3	88.4	88.5	86.8	80.2	76.8	93.3
35.0	73.8	80.3	86.9	87.4	86.6	82.1	78.5	92.7
40.0	72.1	78.2	85.2	86.3	86.1	82.8	79.6	91.8
45.0	71.0	76.6	83.7	84.8	85.2	82.7	80.0	90.8
50.0	69.9	75.6	82.4	83.7	84.2	82.1	79.8	89.9
55.0	69.0	74.9	81.1	82.7	83.7	81.6	79.9	89.2
60.0	91.0	74.2	80.4	82.2	82.7	81.1	79.3	92.9
65.0	68.1	73.7	79.5	81.2	82.2	80.6	79.0	87.9
70.0	68.2	73.5	78.8	80.6	81.8	80.3	78.8	87.4
75.0	67.5	72.9	77.9	80.0	80.6	79.5	78.2	86.7
80.0	67.1	72.2	77.5	79.6	80.6	79.3	78.1	86.4
85.0	66.6	72.4	76.9	79.0	80.0	78.7	77.7	85.8
90.0	66.1	71.4	76.6	78.8	79.7	78.2	77.5	85.5
95.0	66.0	71.4	76.3	78.1	79.5	78.0	77.3	85.2
100.0	65.8	70.8	75.8	77.6	78.7	77.6	77.0	84.7
105.0	65.2	70.5	75.3	77.1	78.4	77.3	76.7	84.3
110.0	65.0	70.0	74.7	76.7	78.0	76.9	76.5	83.9
115.0	64.8	69.6	74.4	76.2	77.6	76.6	76.4	83.6

MODEL THRUST = 9.055 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 10.6	21.3	42.6	85.1	170.2	340.5	670.3	1340.5	2659.8	5319.6	10639.2
5795.6	65.7(64.4)	72.5	57.86	64.54	69.66	66.23	58.75	50.48	48.06	38.14	20.16	-13.01	-70.63
4385.7	70.1(68.6)	75.2	59.27	66.60	71.92	69.66	63.37	55.15	52.09	43.85	29.51	3.68	-40.65
3549.3	73.9(72.0)	76.6	60.17	66.92	72.83	71.48	67.33	59.87	55.60	48.36	36.19	14.72	-21.73
3000.8	76.8(74.6)	77.6	59.23	66.71	72.94	72.89	70.13	63.82	58.95	52.37	41.62	23.00	-8.27
2615.2	79.0(76.5)	78.2	59.47	65.96	72.46	72.85	71.96	67.03	62.14	56.02	46.26	29.65	2.00
2333.6	80.3(77.4)	78.3	58.75	64.45	71.40	72.45	72.55	68.82	64.39	58.60	49.57	34.43	9.43
2121.3	81.0(77.8)	78.1	58.49	64.16	71.13	72.24	72.47	69.52	65.96	60.33	51.84	37.80	14.81
1958.1	81.3(77.8)	77.9	58.08	63.71	70.58	71.84	72.23	69.86	66.47	61.13	53.07	39.88	18.43
1831.2	81.6(77.9)	77.8	57.72	63.62	69.79	71.43	72.28	69.82	67.21	62.02	54.20	41.76	21.50
1732.1	82.7(79.2)	80.1	60.25	63.62	69.40	71.36	71.72	69.81	67.22	62.15	54.68	42.66	23.34
1655.1	81.6(77.7)	77.4	57.88	63.29	69.10	70.79	71.65	69.79	67.39	62.42	55.14	43.52	24.93
1596.3	81.7(77.7)	77.3	58.11	63.40	68.73	70.51	71.63	69.76	67.52	62.61	55.49	44.18	26.13
1552.9	81.2(77.1)	76.8	57.73	63.06	68.64	70.15	70.91	69.24	67.17	62.32	55.31	44.22	26.59
1523.1	81.2(77.1)	76.6	57.58	62.56	67.87	69.86	70.76	69.23	67.30	62.48	55.55	44.62	27.26
1505.7	80.8(76.6)	76.2	57.03	62.40	67.36	69.48	70.33	68.75	66.95	62.15	55.26	44.42	27.23
1500.8	80.5(76.2)	75.9	56.62	61.92	67.08	69.19	70.01	68.27	66.85	62.08	55.18	44.38	27.24
1505.7	80.2(75.9)	75.4	56.44	61.89	66.71	68.54	69.82	68.02	66.61	61.91	54.92	44.09	26.84
1523.1	79.6(75.3)	74.9	56.15	61.15	66.44	67.90	69.44	67.52	66.13	61.31	54.36	43.65	26.09
1552.9	79.1(74.8)	74.4	55.35	60.69	65.49	67.22	68.45	67.05	65.72	60.96	53.85	42.77	25.13
1596.3	78.4(74.1)	73.8	54.94	59.95	64.80	66.43	67.77	66.37	65.22	60.31	53.18	41.97	23.83
1655.1	77.6(73.2)	73.1	54.45	59.71	64.01	65.74	67.10	65.79	64.70	59.80	52.52	40.91	22.31

RUN NUMBER	
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 217.000
PRIMARY TEMPERATURE (R)	= 9.000
SECONDARY TEMPERATURE (R)	= 533.000
PRIMARY PRESSURE RATIO	= 527.000
AREA RATIO	= 1.600
VELOCITY RATIO	= 1.000
PRIMARY VELOCITY (FT/SEC)	= .994
MASS FLOW RATIO	= 900.324
PRIMARY MASS FLOW (LM/SEC)	= 1.214
THRUST (LBS)	= .207
ENVIRONMENTAL TEMPERATURE (R)	= 12.752
ENVIRONMENTAL PRESSURE (IN.HG)	= 524.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.470
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 60.000
INSTRUMENTATION NOISE FLOOR (DB)	= .004
	= 47.532

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.25025E-01	121.0
500	1.76243E-03	102.5
1000	7.766572E-03	108.9
2000	2.42202E-02	113.8
4000	2.70024E-02	114.3
8000	2.87343E-02	114.5
16000	2.11869E-02	113.3
31500	1.48640E-02	111.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	149.9
20000	152.9
40000	155.9
80000	158.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	81.5	88.0	91.3	87.5	83.1	79.2	76.9	94.8
20.0	80.2	87.3	91.3	88.9	85.0	80.4	78.0	95.1
25.0	79.0	86.4	90.9	89.9	86.6	82.0	79.5	95.3
30.0	77.7	84.3	89.6	89.5	87.7	83.5	80.9	94.8
35.0	76.3	82.7	88.1	89.0	88.3	84.6	81.3	94.4
40.0	74.2	81.1	86.9	88.0	88.1	85.4	82.6	93.9
45.0	73.2	79.9	85.8	87.0	87.8	85.7	83.1	93.4
50.0	72.7	78.8	84.5	86.0	86.8	85.4	83.4	92.6
55.0	72.0	78.2	83.7	85.4	86.3	85.2	83.4	92.2
60.0	72.0	77.7	83.3	85.0	86.0	85.3	83.6	91.9
65.0	70.8	76.9	82.4	84.1	85.6	84.3	83.0	91.1
70.0	71.4	76.4	81.8	83.5	84.8	83.9	82.5	90.6
75.0	70.3	76.3	81.2	83.0	84.1	83.7	82.6	90.3
80.0	70.4	76.0	81.0	82.4	83.7	83.4	82.3	89.9
85.0	69.7	75.2	80.2	81.9	83.2	82.9	82.0	89.4
90.0	69.0	74.6	79.9	81.5	83.0	82.8	82.0	89.2
95.0	68.2	74.3	79.4	81.0	82.6	82.8	81.6	88.9
100.0	67.9	74.0	79.2	80.6	82.4	82.4	81.4	88.5
105.0	67.7	73.7	78.7	80.2	82.2	82.3	81.6	88.4
110.0	67.4	73.0	78.4	79.6	82.1	82.4	81.7	88.3
115.0	67.5	72.3	77.6	79.4	81.7	82.5	81.7	88.1

MODEL THRUST = 12.752 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	12.6	OCTAVE 25.3	BAND 50.5	SOUND 101.0	PRESSURE 202.0	LEVELS 404.0	795.4	1590.8	3154.4	6312.8	12625.5
1795.6	67.2(66.0)	71.8	58.72	65.25	68.48	64.56	59.64	54.36	48.44	36.95	16.03	-22.23	-87.50
1785.7	72.0(70.5)	74.6	59.86	66.95	70.85	66.37	64.08	58.49	53.41	43.98	27.42	-2.26	-52.38
1549.3	75.2(74.0)	76.6	60.47	67.90	72.35	71.23	67.89	62.16	57.53	49.33	35.35	10.76	-30.38
1808.0	78.0(76.4)	77.6	60.68	67.24	72.53	72.32	70.28	64.39	60.93	53.54	41.24	20.01	-15.22
1615.2	80.5(78.1)	78.3	60.47	66.90	72.24	73.11	72.09	67.81	62.91	56.08	44.99	26.08	-5.02
1333.4	81.9(79.2)	78.8	59.33	66.26	72.06	73.10	72.48	69.64	65.42	57.01	48.79	31.59	3.62
1171.3	83.4(79.9)	79.0	59.22	66.42	71.73	72.94	73.51	70.88	66.96	60.86	51.29	35.39	9.60
1958.1	83.5(80.3)	79.0	59.39	65.44	71.14	72.62	73.20	71.54	68.18	62.31	53.25	38.34	14.30
1831.2	84.1(80.6)	79.1	59.30	65.62	70.98	72.61	73.28	71.83	68.88	63.28	54.54	40.40	17.72
1732.1	84.7(81.0)	79.4	59.79	65.69	70.98	72.63	73.48	72.37	69.62	64.08	55.72	42.19	20.58
1655.1	84.3(80.5)	79.0	58.48	65.04	70.52	72.20	73.01	71.88	69.49	64.07	55.95	42.88	22.10
1596.3	84.3(80.6)	78.8	59.87	64.87	70.19	71.84	73.01	71.76	69.45	64.11	56.17	43.46	23.31
1552.9	84.4(80.6)	78.7	59.03	65.00	69.88	71.63	72.58	71.86	69.77	64.50	56.69	44.25	24.56
1523.1	84.3(80.2)	78.5	59.30	64.83	69.86	71.18	72.34	71.65	69.71	64.48	56.76	44.50	25.13
1505.7	83.9(79.8)	78.1	58.64	64.14	69.17	70.83	71.97	71.31	69.51	64.31	56.65	44.49	25.31
1500.0	83.8(79.7)	77.9	57.97	63.59	68.92	70.39	71.82	71.24	69.50	64.31	56.67	44.54	25.42
1505.7	83.6(79.4)	77.6	57.17	63.20	68.17	69.98	71.42	71.17	69.33	64.12	56.46	44.30	25.12
1523.1	83.1(79.0)	77.2	56.40	62.42	68.03	69.39	71.02	70.87	69.18	63.95	56.24	43.97	24.20
1552.9	82.8(78.6)	76.8	56.35	62.43	67.92	69.02	70.72	70.42	68.77	63.50	55.70	43.25	23.54
1596.3	82.5(78.3)	76.4	55.82	61.64	66.89	67.99	70.34	70.31	68.54	63.20	55.26	42.55	22.43
1655.1	82.1(77.9)	76.9	55.45	61.41	66.74	67.67	70.07	70.05	68.26	62.84	54.72	41.65	20.87

RUN NUMBER	
AXIAL POSITION OF PRIMARY NPT, SECONDARY (INS.)	= 216.000
PRIMARY TEMPERATURE (R)	= 9.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 527.000
AREA RATIO	= 1.000
VELOCITY RATIO	= 1.000
PRIMARY VELOCITY (FT/SEC)	= 1.145
MASS FLOW RATIO	= 897.797
PRIMARY MASS FLOW (LB/SEC)	= 1.000
THRUST (LBS)	= .207
ENVIRONMENTAL TEMPERATURE (R)	= 15.598
ENVIRONMENTAL PRESSURE (IN.HG)	= 524.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.470
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 60.000
INSTRUMENTATION NOISE FLOOR (DB)	= .010
	= 49.579

ISTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.17205E-01	123.4
500	2.47528E-03	103.9
1000	1.16498E-02	110.7
2000	3.48170E-02	115.4
4000	4.66071E-02	116.7
8000	5.10779E-02	117.1
16000	4.12525E-02	116.2
31500	2.93250E-02	114.7

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	151.4
20000	154.4
40000	157.5
80000	160.5

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	82.9	89.0	92.1	90.3	88.3	83.8	79.9	96.7
20.0	81.8	89.1	92.5	91.2	89.0	85.0	81.7	97.3
25.0	80.4	87.8	92.0	91.7	89.9	85.5	82.7	97.2
30.0	79.2	86.3	91.2	92.4	91.0	86.9	83.8	97.4
35.0	77.3	84.9	89.8	91.6	91.1	87.7	84.8	97.0
40.0	76.2	83.3	88.6	90.5	90.9	88.4	85.7	96.4
45.0	74.7	81.9	87.1	89.5	90.2	88.5	86.0	95.7
50.0	74.3	80.7	86.0	88.1	89.2	88.1	86.2	94.9
55.0	73.2	80.1	85.2	87.4	88.6	87.9	86.0	94.4
60.0	72.9	79.3	84.8	86.8	88.8	87.6	85.9	93.9
65.0	72.5	79.0	84.4	86.4	87.5	87.2	85.8	93.6
70.0	72.4	78.4	83.9	85.8	86.8	86.7	85.4	93.0
75.0	71.8	78.0	83.6	85.3	86.1	86.4	85.2	92.6
80.0	71.8	77.6	83.1	84.9	85.7	85.9	85.3	92.3
85.0	71.3	76.9	82.3	84.1	85.6	85.9	85.0	91.9
90.0	70.5	76.9	81.9	84.1	85.7	86.1	85.1	92.0
95.0	70.7	76.4	81.4	83.5	85.1	85.4	84.8	91.5
100.0	70.1	75.9	81.4	83.1	84.9	85.6	84.9	91.4
105.0	69.6	74.8	80.9	82.8	84.9	85.6	85.0	91.3
110.0	68.3	74.7	80.5	82.3	84.8	85.6	84.6	91.1
115.0	68.5	74.1	79.4	81.8	84.1	85.6	84.9	90.8

MODEL THRUST = 15.598 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE 14.9	BAND 27.9	SOUND 55.9	PRESSURE 111.7	223.4	446.8	LEVELS 879.7	1759.4	3490.8	6981.7	13963.3
5795.6	70.7(69.7)	72.7		59.32	65.39	68.39	66.41	63.78	57.70	49.79	37.25	14.37	-27.17	-97.23
4385.7	75.0(73.7)	75.7		60.61	67.90	71.23	69.79	67.16	61.87	55.58	45.37	27.32	-4.84	-58.58
3949.3	78.2(76.5)	77.5		61.00	68.42	72.57	72.16	69.99	64.58	59.33	50.49	35.31	8.71	-35.36
3888.0	81.1(79.2)	79.2		61.34	68.39	73.24	74.32	72.64	67.69	62.51	54.58	41.29	18.34	-19.37
2615.2	82.8(80.6)	79.9		60.58	68.20	73.04	74.41	74.01	69.90	65.12	57.82	45.85	25.46	-7.80
2333.6	84.0(81.4)	80.3		60.49	67.59	72.87	74.46	74.79	71.64	67.31	60.47	49.46	30.95	.95
2121.3	84.8(81.8)	80.4		59.86	66.99	72.22	74.50	74.95	72.68	69.75	62.26	51.98	34.88	7.33
1958.1	85.3(82.0)	80.3		60.14	66.49	71.78	73.85	74.68	73.09	69.84	63.62	53.91	37.89	12.23
1831.2	85.7(82.3)	80.4		59.57	66.45	71.90	73.68	74.72	73.50	70.35	64.34	55.06	39.88	15.70
1732.1	85.9(82.4)	80.4		59.76	66.12	71.68	73.54	74.44	73.70	70.84	64.99	56.05	41.53	18.49
1655.1	86.2(82.5)	80.5		59.75	66.21	71.65	73.55	74.48	73.74	71.21	65.48	56.81	42.80	20.65
1586.3	86.1(82.3)	80.3		59.46	65.94	71.42	73.29	74.12	73.61	71.21	65.58	57.10	43.49	22.02
1552.9	86.0(82.2)	80.1		59.66	65.78	71.36	73.06	73.66	73.52	71.26	65.70	57.37	44.05	23.08
1523.1	86.0(82.0)	79.9		59.83	65.59	71.03	72.77	73.48	73.24	71.62	66.11	57.89	44.76	24.13
1505.7	85.9(81.9)	79.7		59.35	64.99	70.37	72.14	73.44	73.35	71.37	65.90	57.73	44.72	24.30
1500.6	86.0(82.0)	79.8		59.64	65.07	70.44	72.18	73.58	73.54	71.58	66.03	57.88	44.91	24.55
1505.7	85.9(81.9)	79.7		59.73	64.62	70.21	71.55	72.99	72.94	71.17	65.69	57.62	44.51	24.09
1523.1	85.8(81.8)	79.6		59.11	63.54	69.35	70.79	72.70	72.96	71.17	65.67	57.44	44.31	23.69
1552.9	85.1(81.0)	78.7		57.38	62.85	68.69	70.53	72.50	72.71	71.05	65.50	57.17	43.85	22.88
1596.3	84.6(80.6)	78.2		55.90	62.24	68.07	69.85	72.16	72.65	70.43	64.80	56.33	42.71	21.24
1655.1	84.1(80.0)	77.6		55.75	61.31	66.66	69.00	71.08	72.15	70.26	64.54	55.86	41.86	19.70

RUN NUMBER	= 219.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 523.000
SECONDARY TEMPERATURE (R)	= 524.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 2.007
VELOCITY RATIO	= .367
PRIMARY VELOCITY (FT/SEC)	= 891.430
MASS FLOW RATIO	= .595
PRIMARY MASS FLOW (LB/SEC)	= .208
THRUST (LBS)	= 6.961
ENVIRONMENTAL TEMPERATURE (R)	= 525.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 56.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .007
INSTRUMENTATION NOISE FLOOR (DB)	= 66.405

STIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.68464E-02	118.9
500	5.57379E-04	97.5
1000	3.05729E-03	104.9
2000	1.33618E-02	111.3
4000	1.99519E-02	113.0
8000	1.96564E-02	112.9
16000	1.23752E-02	110.9
31500	7.88451E-03	109.0

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	150.4
20000	153.4
40000	156.5
80000	159.5

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	76.5	84.9	90.7	89.6	85.1	79.6	76.7	94.6
20.0	75.4	84.0	90.3	89.9	86.0	81.3	77.9	94.7
25.0	74.1	82.6	89.3	89.9	87.2	82.5	79.1	94.5
30.0	72.5	80.5	87.2	89.2	88.1	84.0	80.6	94.0
35.0	70.4	78.5	85.6	88.1	87.5	84.3	81.0	93.1
40.0	68.9	76.2	83.5	86.1	86.7	84.1	81.2	91.8
45.0	68.4	75.6	82.2	85.6	86.9	85.2	82.6	92.0
50.0	67.5	74.1	80.8	84.4	85.6	84.3	82.1	90.9
55.0	66.6	73.0	80.0	83.2	84.6	83.3	81.4	89.9
60.0	66.6	72.6	79.4	82.4	83.5	82.4	80.8	89.0
65.0	66.0	72.4	78.5	81.6	83.1	82.1	80.3	88.5
70.0	65.8	72.1	77.9	81.1	82.3	81.3	79.6	87.8
75.0	65.8	71.5	77.4	80.5	81.8	80.9	79.6	87.4
90.0	63.9	70.8	76.7	79.8	81.0	80.2	78.8	86.7
85.0	65.5	70.8	76.5	79.4	80.6	79.6	78.3	86.2
90.0	64.6	70.1	75.8	78.7	79.8	78.7	77.6	85.5
95.0	64.8	69.9	75.3	77.9	79.5	78.4	77.5	85.1
100.0	64.1	69.3	74.9	77.5	78.6	77.5	77.0	84.4
105.0	63.3	69.3	74.3	76.6	78.3	77.4	76.9	84.0
110.0	62.8	68.9	73.6	76.4	77.7	76.6	76.3	83.5
115.0	62.8	68.3	73.3	76.4	77.4	76.2	75.9	83.2

MODEL THRUST = 6.961 FULL SCALE THRUST = 20000.000

L.	PROB.	OASPL	9.3	OCTAVE 18.7	BAND 37.3	SOUND 74.6	PRESSURE 149.2	LEVELS 298.5	547.7	1175.3	2332.0	4664.0	9327.9
5795.6	69.6(68.2)	74.3	56.39	64.73	70.59	69.34	64.53	58.13	52.83	43.93	27.94	-1.71	-53.89
4385.7	74.0(72.2)	76.9	57.68	66.29	72.60	72.07	68.40	62.54	57.43	49.96	37.13	13.97	-26.25
3549.3	77.2(75.0)	78.5	58.27	66.74	73.42	73.93	71.12	65.84	60.97	54.36	43.40	24.08	-9.04
3000.0	79.8(77.2)	79.4	58.14	66.13	72.79	74.73	73.47	68.95	64.31	58.26	48.53	31.74	3.28
2615.2	81.1(78.2)	79.7	57.19	65.28	72.43	74.84	74.11	70.47	66.13	60.46	51.60	36.58	11.38
2333.4	81.9(78.6)	79.5	56.65	64.02	71.25	73.79	74.29	71.34	67.48	62.10	53.87	40.14	17.34
2121.3	83.9(80.3)	80.4	57.02	64.22	70.84	74.14	75.33	73.34	69.86	64.70	56.95	44.19	23.14
1954.1	83.9(80.0)	80.0	56.85	63.44	70.12	73.67	74.77	73.14	70.14	65.15	57.76	45.76	24.14
1831.2	83.6(79.6)	79.6	56.48	62.85	69.96	73.00	74.33	72.74	70.09	65.22	58.12	46.70	24.16
1732.1	83.5(79.3)	79.3	56.96	62.46	69.78	72.73	73.72	72.39	70.08	65.32	58.44	47.47	24.78
1655.1	83.5(79.2)	79.2	56.76	63.12	69.22	72.33	73.72	72.44	69.99	65.31	58.60	47.99	30.06
1596.3	83.2(78.8)	78.9	56.91	63.19	68.99	72.11	73.29	71.97	69.67	65.04	58.46	48.12	31.58
1552.9	83.2(78.7)	78.7	57.15	62.84	69.75	71.78	73.05	71.83	69.88	65.30	58.82	48.68	32.50
1523.1	82.8(78.1)	78.1	55.38	62.29	68.14	71.26	72.39	71.31	69.33	64.77	58.36	48.36	32.43
1505.7	82.2(77.7)	77.8	57.10	62.39	68.08	71.00	72.07	70.84	68.88	64.35	57.98	48.05	32.27
1500.0	81.4(76.8)	77.1	56.27	61.73	67.43	70.10	71.26	69.96	68.26	63.74	57.37	47.48	31.75
1505.7	81.1(76.5)	76.7	56.42	61.49	66.10	69.67	70.59	69.67	67.69	63.55	57.18	47.24	31.49
1523.1	80.4(75.7)	75.9	55.59	60.76	65.35	68.92	70.02	68.88	67.48	62.93	56.51	46.51	30.58
1552.9	80.0(75.3)	75.4	54.60	60.47	65.56	67.92	69.68	68.33	67.21	62.63	56.15	46.01	29.93
1596.3	79.0(74.4)	74.6	53.93	59.99	64.66	67.62	68.65	67.34	66.33	61.71	55.13	44.79	29.24
1655.1	78.3(73.7)	74.0	53.61	59.07	64.03	67.11	68.02	66.82	65.64	60.97	54.26	43.65	28.61

RUN NUMBER	= 220.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 523.000
SECONDARY TEMPERATURE (R)	= 522.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 2.007
VELOCITY RATIO	= .649
PRIMARY VELOCITY (FT/SEC)	= 891.430
MASS FLOW RATIO	= 1.337
PRIMARY MASS FLOW (LB/SEC)	= .208
THRUST (LBS)	= 11.132
ENVIRONMENTAL TEMPERATURE (R)	= 524.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 60.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .009
INSTRUMENTATION NOISE FLOOR (DB)	= 48.567

USYIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.16794E-01	120.7
500	1.39304E-03	101.4
1000	6.30728E-03	108.0
2000	2.20292E-02	113.4
4000	3.13157E-02	115.0
8000	2.84036E-02	114.5
16000	1.69326E-02	112.3
31500	1.03356E-02	110.1

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	150.2
20000	153.2
40000	156.2
80000	159.2

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	79.8	88.4	91.3	89.9	85.7	80.8	77.8	95.3
20.0	79.3	86.5	91.8	91.8	88.8	83.1	79.8	96.5
25.0	78.4	85.8	91.6	92.4	90.8	85.2	81.8	97.1
30.0	76.6	84.1	90.0	92.0	90.4	86.3	82.6	96.6
35.0	74.7	81.8	88.1	90.3	89.0	86.7	83.4	95.5
40.0	73.1	79.9	86.1	88.5	88.7	86.4	83.6	94.2
45.0	71.4	78.3	84.6	87.1	87.9	86.1	83.6	93.3
50.0	71.0	77.5	83.3	86.1	87.1	85.4	83.2	92.5
55.0	70.6	77.1	82.4	85.0	85.9	84.6	82.6	91.5
60.0	70.4	76.2	81.8	84.4	85.2	83.8	81.8	90.8
65.0	70.1	75.4	80.9	83.2	83.9	82.8	81.1	89.7
70.0	70.0	75.6	80.0	82.0	82.9	81.7	80.3	88.8
75.0	69.6	75.3	79.4	81.6	82.2	81.0	79.9	88.2
80.0	69.9	75.1	79.6	81.5	82.3	81.0	79.5	88.2
85.0	69.0	75.1	79.2	81.0	81.8	80.6	79.4	87.8
90.0	69.1	74.5	78.8	80.7	81.7	80.3	78.8	87.5
95.0	68.8	74.1	78.3	79.6	80.7	79.4	78.1	86.6
100.0	68.3	73.4	77.5	79.0	79.9	79.5	77.4	85.9
105.0	67.5	72.6	76.7	78.1	79.1	77.9	77.0	85.2
110.0	66.8	72.7	76.2	77.9	79.4	77.5	77.8	85.1
115.0	66.8	71.5	76.0	77.7	79.0	77.6	76.9	84.8

MODEL THRUST = 11.132 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 11.8	23.6	47.2	94.4	188.7	377.5	743.1	1486.3	2949.0	5898.0	11795.9
795.6	69.3(68.2)	72.9	57.64	64.24	69.11	67.55	62.86	56.50	50.49	39.66	19.96	-16.21	-78.36
385.7	74.9(73.4)	76.5	59.57	66.73	72.04	71.94	67.73	61.87	56.18	47.25	31.61	3.51	-44.25
849.3	79.1(77.3)	78.9	60.48	67.86	73.69	74.39	71.70	66.15	60.72	52.92	39.69	16.38	-22.85
880.0	81.3(79.2)	79.9	60.13	67.67	73.54	75.44	73.63	68.89	63.48	56.42	44.77	24.61	-9.01
618.2	82.5(80.0)	80.0	59.47	66.54	72.86	74.98	74.37	70.63	65.84	59.31	48.77	30.90	1.11
333.6	83.0(80.1)	79.6	58.82	65.63	71.83	74.15	74.17	71.35	67.26	61.10	51.37	35.02	8.20
121.3	83.6(80.4)	79.6	57.94	64.92	71.12	73.63	74.19	71.93	68.23	62.36	53.25	38.11	13.46
960.1	83.9(80.5)	79.5	58.32	64.78	70.59	73.32	74.19	72.06	68.76	63.12	54.47	40.27	17.28
831.2	83.8(80.2)	79.1	58.45	64.91	70.21	72.76	73.54	71.85	68.86	63.18	55.10	41.63	19.93
732.1	83.6(80.0)	78.9	58.71	64.55	70.12	72.71	73.31	71.56	68.57	63.23	55.24	42.33	21.65
655.1	83.1(79.3)	76.3	54.86	64.15	69.60	71.85	72.67	70.93	68.32	63.08	55.31	42.84	22.95
596.3	82.5(78.6)	77.6	59.06	64.60	69.00	71.00	71.74	70.16	67.97	62.81	55.21	43.07	23.78
552.9	82.3(78.3)	77.4	58.92	64.54	68.71	70.79	71.33	69.76	67.70	62.70	55.22	43.33	24.48
523.1	82.4(78.4)	77.5	59.34	64.52	69.03	70.86	71.54	69.94	67.59	62.53	55.14	43.42	24.87
505.7	82.2(78.1)	77.2	58.52	64.69	68.73	70.53	71.18	69.78	67.56	62.53	55.19	43.57	25.20
500.8	81.8(77.8)	76.9	58.69	64.05	68.41	70.21	71.13	69.37	67.02	61.99	54.67	43.09	24.78
505.7	80.9(76.9)	76.1	58.39	63.42	67.83	69.11	70.13	68.44	66.28	61.25	53.91	42.29	23.97
523.1	80.0(75.9)	75.2	57.71	62.85	66.97	68.39	69.18	67.47	65.49	60.43	53.04	41.33	22.78
552.9	79.1(75.0)	74.3	56.76	61.85	65.97	67.19	68.23	66.42	64.65	59.75	52.27	40.38	21.53
596.3	78.6(74.7)	74.0	55.43	61.71	65.24	66.84	69.31	66.44	64.57	59.41	51.81	39.67	20.38
655.1	78.1(74.1)	73.4	55.52	60.27	64.71	66.43	67.50	65.82	64.11	58.87	51.10	39.03	19.74

RUN NUMBER	
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (IN.)	= 221.000
PRIMARY TEMPERATURE (R)	= 4.480
SECONDARY TEMPERATURE (R)	= 527.000
PRIMARY PRESSURE RATIO	= 523.000
AREA RATIO	= 1.000
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= .996
MASS FLOW RATIO	= 895.262
PRIMARY MASS FLOW (LB/SEC)	= 2.788
THRUST (LBS)	= .208
ENVIRONMENTAL TEMPERATURE (R)	= 21.879
ENVIRONMENTAL PRESSURE (IN.HG)	= 524.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.470
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 60.000
INSTRUMENTATION NOISE FLOOR (DB)	= .016
	= 53.552

SUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.61926E-01	126.6
500	3.97380E-03	106.0
1000	1.95762E-02	112.9
2000	6.33929E-02	118.0
4000	1.09428E-01	120.4
8000	1.25955E-01	121.0
16000	8.81535E-02	119.5
31500	5.14471E-02	117.1

OVERALL SOUND POWER LEVEL-SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	153.2
20000	156.3
40000	159.3
80000	162.3

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	83.7	89.9	78.0	93.4	92.3	89.4	85.2	98.0
20.0	82.9	90.0	94.5	95.1	96.0	89.4	85.9	100.4
25.0	81.7	89.0	95.1	96.7	95.4	90.8	88.2	101.5
30.0	81.0	88.2	94.1	96.9	96.4	92.9	89.2	101.9
35.0	79.8	87.0	92.8	95.9	96.3	94.1	90.8	101.6
40.0	77.8	85.4	91.4	94.6	95.1	93.7	91.2	100.6
45.0	76.0	84.0	89.9	92.8	93.9	92.7	90.4	99.3
50.0	75.8	82.8	89.1	91.9	93.1	92.3	90.3	98.7
55.0	75.4	82.5	88.1	90.7	92.0	91.1	89.0	97.6
60.0	75.2	81.9	87.7	90.2	91.2	90.5	88.4	96.9
65.0	75.1	81.7	86.7	89.2	90.5	89.5	87.4	96.1
70.0	75.0	81.3	86.4	88.5	89.8	88.7	86.7	95.4
75.0	74.9	81.3	86.2	88.1	89.3	88.8	86.8	95.2
80.0	74.6	81.5	85.9	87.8	89.0	88.1	86.3	94.8
85.0	74.5	81.3	85.6	87.3	88.5	88.0	86.2	94.5
90.0	74.1	80.9	85.7	87.0	88.9	87.9	85.6	94.4
95.0	73.8	80.5	85.3	86.8	88.6	87.8	85.8	94.3
100.0	73.1	80.4	85.1	86.2	87.9	87.2	85.2	93.7
105.0	73.2	80.0	84.8	86.2	87.9	87.1	85.3	93.6
110.0	72.5	78.6	83.2	85.1	87.7	86.3	84.5	92.8
115.0	72.1	77.6	82.5	84.3	86.8	86.0	84.9	92.5

MODEL THRUST = 21.879 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	16.5	OCTAVE BAND SOUND PRESSURE LEVELS 33.1	66.2	132.3	264.6	529.2	1041.9	2043.7	4134.4	8268.8	16537.6
5795.4	72.8(72.0)	71.9	58.59	64.74	56.76	67.94	64.68	61.15	51.91	37.36	10.83	-36.70	-115.29
4385.7	78.3(77.2)	77.2	60.26	67.26	71.78	72.16	70.45	64.28	57.06	45.31	24.51	-12.19	-72.39
3549.3	82.3(80.9)	80.1	60.89	68.18	74.21	75.01	73.87	68.04	62.33	52.75	34.84	4.57	-44.72
3000.0	85.1(83.5)	81.9	61.64	68.86	74.66	77.15	76.68	71.84	65.55	55.56	41.38	15.33	-24.79
2615.2	86.9(86.9)	82.8	61.66	69.74	74.61	77.41	77.39	74.51	66.89	60.68	47.86	23.97	-13.14
2333.6	87.4(85.8)	82.8	60.81	68.24	74.19	77.23	77.67	75.27	70.67	63.02	50.55	29.62	-3.82
2121.3	87.3(86.4)	82.3	59.67	67.58	73.50	76.36	77.09	75.15	71.00	63.77	52.16	32.86	2.14
1958.1	87.7(86.8)	82.4	60.15	67.09	73.37	76.11	77.09	75.57	71.82	64.41	53.97	35.92	7.36
1831.2	87.3(86.3)	81.9	60.27	67.41	72.95	75.46	76.58	75.04	71.32	64.67	54.24	37.17	10.29
1732.1	87.3(86.2)	81.8	60.64	67.27	73.07	75.69	76.24	74.90	71.35	64.90	54.87	38.56	12.97
1655.1	86.8(85.7)	81.4	60.91	67.49	72.51	74.95	75.85	74.35	70.89	64.58	54.87	39.15	14.56
1594.3	86.5(85.3)	81.1	61.11	67.17	72.44	74.67	75.63	73.91	70.51	64.33	54.95	39.59	15.77
1542.9	86.8(85.5)	81.1	61.22	67.07	72.48	74.32	75.38	74.25	70.92	64.42	55.52	40.59	17.33
1523.1	86.5(85.2)	80.9	61.14	66.93	72.41	74.21	75.23	73.77	70.64	64.60	55.42	40.72	17.85
1505.7	86.4(85.0)	80.7	61.11	67.08	72.21	73.98	74.96	73.76	70.71	64.71	55.59	41.02	18.39
1500.0	86.3(85.0)	80.7	60.74	67.53	72.29	73.99	75.24	73.72	70.17	64.18	55.09	40.54	18.00
1505.7	86.2(84.8)	80.5	60.43	67.13	71.91	73.35	74.96	73.61	70.30	64.30	55.19	40.62	17.98
1523.1	85.4(84.0)	79.8	59.80	66.42	71.58	72.67	74.15	72.48	69.57	63.53	54.35	39.66	16.74
1557.0	85.1(83.9)	79.5	59.59	66.32	71.28	72.68	73.91	72.41	69.42	63.32	54.02	39.09	16.24
1596.3	84.3(83.7)	78.5	58.57	64.98	69.93	71.19	73.52	71.55	68.33	62.15	52.97	37.40	13.54
1645.1	83.6(83.2)	77.7	57.92	63.16	69.22	70.51	72.10	71.04	67.16	60.98	52.12	36.80	12.02

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 222.000
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 527.000
PRIMARY PRESSURE RATIO	= 519.000
AREA RATIO	= 1.600
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= 1.146
MASS FLOW RATIO	= 895.242
PRIMARY MASS FLOW (LB/SEC)	= 3.361
THRUST (LBS)	= .220
ENVIRONMENTAL TEMPERATURE (R)	= 27.981
ENVIRONMENTAL PRESSURE (IN.HG)	= 524.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.470
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 56.000
INSTRUMENTATION NOISE FLOOR (DB)	= .025
	= 57.807

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.26226E+00	131.0
500	7.74697E-03	108.9
1000	4.01199E-02	116.0
2000	1.42743E-01	121.5
4000	2.97165E-01	124.7
8000	3.49898E-01	125.4
16000	2.57616E-01	124.1
31500	1.66975E-01	122.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	156.5
20000	159.6
40000	162.6
80000	165.6

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	87.0	93.2	96.1	101.6	97.3	94.7	90.7	104.9
20.0	86.5	93.4	97.8	101.2	99.3	94.9	90.4	105.4
25.0	85.4	92.7	98.2	100.7	100.8	95.8	93.7	105.9
30.0	84.2	91.4	97.7	101.1	101.4	97.2	94.4	106.3
35.0	81.9	89.8	96.3	100.3	100.9	98.4	95.1	105.8
40.0	80.3	88.5	94.6	98.8	99.9	98.2	95.5	105.0
45.0	78.8	86.7	93.0	96.6	97.8	97.2	95.3	103.4
50.0	78.2	85.5	92.0	95.2	97.0	96.9	95.1	102.7
55.0	77.4	85.3	91.1	94.4	96.1	95.9	94.2	101.8
60.0	78.0	84.9	90.8	93.9	95.3	95.0	93.5	101.1
65.0	77.4	84.5	90.6	93.2	94.7	94.1	92.8	100.4
70.0	77.7	84.5	90.0	92.7	94.0	93.5	91.9	99.8
75.0	77.4	84.6	89.9	92.3	93.7	93.4	91.8	99.6
80.0	77.6	84.3	89.5	91.8	93.2	92.7	91.2	99.0
85.0	76.8	84.3	89.4	91.2	92.7	92.5	90.8	98.7
90.0	77.1	84.0	88.7	90.8	92.6	92.4	90.9	98.5
95.0	76.7	83.4	88.5	90.3	92.3	92.1	90.7	98.2
100.0	76.2	83.0	88.5	89.8	91.8	91.8	90.7	97.9
105.0	76.0	82.9	88.1	89.5	91.6	92.0	90.8	97.8
110.0	75.1	81.7	87.2	89.3	91.7	91.9	91.5	97.8
115.0	74.5	80.7	86.4	88.8	91.4	92.6	91.9	97.9

MODEL THRUST = 27.981 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	18.7	OCTAVE 37.4	BAND 74.8	SOUND 149.6	PRESSURE 299.2	LEVELS 598.5	1178.2	2356.5	4675.5	9351.0	18702.0
795.6	78.7(78.1)	77.8	60.87	66.99	69.82	75.03	69.75	64.71	54.86	38.62	9.12	-43.16	-128.29
685.7	82.7(81.9)	80.9	62.74	69.64	73.99	77.13	74.50	68.29	59.35	46.33	23.28	-17.01	-82.16
549.3	86.5(85.3)	83.2	63.47	70.82	76.19	78.52	78.09	71.52	65.92	54.81	35.58	2.40	-50.90
388.0	89.0(87.5)	85.1	63.80	70.98	77.15	80.45	80.26	74.78	68.95	59.09	42.38	13.87	-31.64
315.2	90.4(88.6)	85.8	62.69	70.54	76.95	80.82	81.03	77.43	71.49	62.52	47.56	22.32	-17.74
353.6	91.0(88.8)	85.9	62.04	70.19	76.29	80.40	81.10	78.41	73.33	65.00	51.33	28.49	-7.59
121.3	90.6(88.0)	85.1	61.37	69.22	75.56	79.04	79.85	78.39	74.35	66.51	53.81	32.77	-.29
958.1	91.0(88.2)	85.1	61.41	68.77	75.18	78.32	79.80	78.91	75.13	67.66	55.70	36.05	5.30
931.2	90.8(88.0)	84.8	61.29	69.16	74.94	78.08	79.53	78.55	74.97	67.78	56.41	37.84	8.89
732.1	90.7(87.7)	84.7	62.34	69.26	75.09	78.06	79.25	78.19	74.90	67.95	57.03	39.30	11.75
555.1	90.5(87.4)	84.5	62.17	69.25	75.26	77.84	79.00	77.76	74.73	67.95	57.39	40.31	13.86
596.3	90.2(87.1)	84.2	62.77	69.57	75.02	77.58	78.69	77.45	74.21	67.56	57.26	40.69	15.07
552.9	90.4(87.3)	84.3	62.72	69.87	75.18	77.50	78.60	77.45	74.52	67.97	57.87	41.67	16.66
523.1	90.0(86.8)	83.9	63.04	69.76	74.92	77.15	78.28	77.11	74.10	67.62	57.66	41.70	17.12
505.7	89.8(86.6)	83.6	62.38	69.79	74.93	76.99	77.88	77.04	73.87	67.43	57.54	41.74	17.40
508.0	89.7(86.5)	83.4	62.72	69.81	74.86	76.91	77.82	76.97	73.86	67.43	57.57	41.82	17.56
509.7	89.6(86.2)	83.1	62.22	69.49	74.65	76.77	77.52	76.63	73.76	67.32	57.43	41.83	17.29
523.1	89.1(85.7)	82.7	61.62	69.27	73.95	76.13	76.90	76.20	73.63	67.15	57.19	41.24	16.65
552.9	88.9(85.6)	82.4	61.28	68.14	73.38	76.67	76.51	76.29	73.52	66.97	56.87	40.67	15.66
596.3	88.6(85.2)	82.1	60.13	66.74	72.23	74.22	76.37	75.87	73.87	67.22	56.93	40.35	14.73
559.1	88.5(85.1)	81.7	59.22	65.41	71.68	73.43	75.79	76.27	73.84	67.06	56.49	39.42	12.97

RUN NUMBER	=	223.00 (745.00)
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	=	9.400
PRIMARY TEMPERATURE (R)	=	526.000
SECONDARY TEMPERATURE (R)	=	523.900
PRIMARY PRESSURE RATIO	=	1.600
AREA RATIO	=	4.854
VELOCITY RATIO	=	.345
PRIMARY VELOCITY (FT/SEC)	=	894.292
MASS FLOW RATIO	=	1.597
PRIMARY MASS FLOW (LB/SEC)	=	.209
THRUST (LBS)	=	8.978
ENVIRONMENTAL TEMPERATURE (R)	=	526.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	=	56.000
CALIBRATION FACTOR (MV TO DYN/SQ CM)	=	.006
INSTRUMENTATION NOISE FLOOR (DB)	=	45.566

OUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.59886E-02	117.5
500	9.82629E-04	99.9
1000	4.24887E-03	106.3
2000	1.29678E-02	111.1
4000	1.45845E-02	111.6
8000	1.17849E-02	110.7
16000	6.61038E-03	108.2
31500	4.79957E-03	106.8

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	147.9
20000	151.0
40000	154.0
80000	157.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	79.5	86.2	89.8	86.3	78.3	71.7	73.4	93.0
20.0	78.4	85.8	90.0	88.1	81.4	73.8	73.9	93.6
25.0	77.1	84.3	89.5	88.7	84.1	77.4	75.1	93.5
30.0	75.8	82.3	87.7	86.0	85.5	79.9	76.6	92.9
35.0	72.9	79.7	85.5	86.4	85.3	81.1	77.8	91.6
40.0	71.1	77.5	83.6	85.1	84.9	81.5	78.7	90.6
45.0	70.2	76.0	82.0	84.2	84.3	81.9	79.6	89.9
50.0	69.4	75.1	80.9	83.1	83.5	81.3	79.3	89.1
55.0	69.0	74.7	79.9	82.2	82.9	81.0	79.4	88.5
60.0	68.6	74.7	79.3	81.6	82.3	80.4	78.9	88.0
65.0	67.8	73.8	78.1	80.5	80.9	79.3	78.0	86.8
70.0	67.8	72.7	77.2	79.4	80.0	78.5	77.5	85.9
75.0	67.3	72.8	76.8	79.4	79.6	78.3	77.3	85.7
80.0	67.5	71.9	76.5	78.6	79.4	78.1	77.2	85.3
85.0	67.1	71.5	76.4	78.5	78.8	77.3	76.5	84.9
90.0	66.1	71.3	75.1	77.4	77.7	76.5	76.1	84.0
95.0	65.8	71.2	74.7	76.2	77.3	76.1	75.9	83.4
100.0	65.3	70.5	74.4	76.4	76.9	75.9	75.8	83.3
105.0	65.4	70.5	74.3	76.1	77.0	75.8	75.7	83.2
110.0	64.6	69.7	74.0	75.9	76.7	75.6	75.8	83.0
115.0	64.5	69.4	73.9	75.5	76.7	75.6	75.8	82.8

MODEL THRUST = 8.978 FULL SCALE THRUST = 20000.000

L0	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 10.6	21.2	42.4	84.7	169.5	339.0	667.4	1334.8	2648.4	5296.8	10593.6
5795.4	64.4(63.0)	71.7	58.27	64.92	68.56	64.91	56.50	48.81	47.70	37.81	19.90	-13.14	-70.58
4386.7	69.4(67.8)	74.7	59.55	67.32	71.15	69.13	62.14	53.77	51.68	43.47	29.19	3.45	-40.74
3849.3	73.5(71.7)	76.5	60.18	67.34	72.55	71.61	66.82	59.42	55.38	48.16	36.03	14.63	-21.71
3800.8	76.4(74.2)	77.2	60.28	66.75	72.20	72.41	69.74	63.52	58.82	52.26	41.54	22.99	-8.19
2615.2	77.8(75.2)	77.1	59.60	65.39	71.17	72.03	70.70	66.07	61.51	55.40	45.68	29.12	1.55
2333.6	78.9(75.9)	77.1	57.80	64.17	70.23	71.73	71.36	67.57	63.62	57.84	48.84	33.74	8.82
2121.3	80.3(77.0)	77.2	57.67	63.47	69.45	71.65	71.59	68.77	64.47	59.95	51.49	37.49	14.57
1954.1	80.6(77.1)	77.1	57.56	63.29	69.07	71.28	71.56	68.97	64.05	60.72	52.68	39.53	18.14
1831.2	81.0(77.3)	77.2	57.76	63.51	68.69	70.92	71.56	69.31	64.77	61.60	53.89	41.39	21.19
1732.1	81.1(77.2)	77.1	57.84	63.94	68.60	70.78	71.38	69.22	64.88	61.82	54.36	42.38	23.12
1655.1	80.4(76.5)	76.3	57.49	63.43	67.79	70.09	70.44	68.50	64.34	61.37	54.12	42.54	23.99
1596.3	80.1(76.0)	75.8	57.81	62.87	67.21	69.32	69.81	67.99	63.77	60.92	53.77	42.34	24.45
1552.9	80.2(76.0)	75.8	57.47	63.05	67.03	69.56	69.63	68.06	64.31	61.46	54.47	43.42	25.83
1523.1	80.1(75.9)	75.6	57.87	62.23	66.92	68.97	69.61	68.04	64.37	61.56	54.64	43.75	26.44
1505.7	79.5(75.2)	75.3	57.42	62.03	66.92	68.92	69.18	67.34	63.82	61.03	54.16	43.35	26.21
1500.0	78.7(74.3)	74.4	56.63	61.93	65.63	67.91	68.12	66.54	63.44	60.65	53.79	43.02	25.93
1505.7	78.3(73.9)	73.9	56.32	61.44	65.19	66.88	67.63	66.15	63.18	60.39	53.51	42.71	25.57
1523.1	78.1(73.6)	73.6	55.64	60.97	64.78	66.72	67.19	65.86	62.99	60.18	53.26	42.37	25.06
1552.9	77.8(73.3)	73.3	55.62	60.70	64.49	66.26	67.07	65.56	62.72	59.88	52.89	41.83	24.25
1594.3	77.4(72.9)	72.8	54.61	59.64	63.93	65.83	66.58	65.12	62.53	59.63	52.52	41.25	23.25
1655.1	76.9(72.5)	72.4	54.13	59.[illegible]	63.55	65.15	66.21	64.79	62.17	59.20	51.94	40.36	21.82

RUN NUMBER	= 225.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (IN.)	= 9.000
PRIMARY TEMPERATURE (R)	= 527.000
SECONDARY TEMPERATURE (R)	= 518.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 4.856
VELOCITY RATIO	= .991
PRIMARY VELOCITY (FT/SEC)	= 895.242
MASS FLOW RATIO	= 6.093
PRIMARY MASS FLOW (LB/SEC)	= .203
THRUST (LBS)	= 39.805
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.570
ENVIRONMENTAL HUMIDITY (PER CENT)	= 58.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .014
INSTRUMENTATION NOISE FLOOR (DB)	= 53.552

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.88417E-01	128.4
500	1.83939E-02	112.6
1000	5.65939E-02	117.5
2000	1.45279E-01	121.7
4000	1.73544E-01	122.4
8000	1.50639E-01	121.9
16000	9.27706E-02	119.7
31500	5.07262E-02	117.1

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	152.4
20000	155.4
40000	158.4
80000	161.4

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	92.4	94.8	95.6	92.3	87.3	84.6	80.0	100.4
20.0	91.4	94.9	96.7	93.1	89.5	85.4	81.4	101.0
25.0	89.9	94.4	97.1	94.6	90.7	86.1	82.6	101.3
30.0	88.4	93.8	97.2	95.7	92.2	87.9	84.1	101.6
35.0	87.0	92.3	96.6	96.4	93.7	89.4	85.6	101.7
40.0	84.5	90.6	95.5	96.2	94.7	90.3	86.2	101.3
45.0	83.5	89.6	94.0	95.6	95.0	91.8	88.0	101.0
50.0	82.1	88.6	93.2	94.8	94.7	91.9	88.7	100.5
55.0	81.2	87.3	92.2	94.1	94.8	91.8	89.1	99.9
60.0	80.6	86.7	91.7	93.5	93.6	91.3	88.5	99.4
65.0	80.0	85.8	91.1	92.9	92.8	90.7	89.0	98.7
70.0	79.3	85.3	90.4	92.4	92.2	90.4	87.8	98.2
75.0	79.8	84.3	89.8	92.1	91.9	90.0	87.2	97.8
80.0	79.0	84.2	89.5	91.3	91.2	89.8	87.5	97.3
85.0	78.5	83.9	89.1	91.0	91.2	89.6	87.1	97.1
90.0	78.3	83.2	88.5	90.4	90.9	89.6	87.4	96.8
95.0	77.9	82.4	88.1	90.3	90.9	89.5	87.3	96.6
100.0	77.7	82.2	87.9	89.9	90.4	89.5	87.8	96.5
105.0	76.5	82.1	87.8	90.1	90.7	89.8	87.8	96.6
110.0	76.4	81.4	87.7	89.6	90.2	89.9	88.3	96.4
115.0	75.4	80.5	87.4	89.5	90.1	89.9	88.0	96.2

MODEL THRUST = 39.805 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	22.3	OCTAVE 44.6	BAND 89.2	SOUND 178.4	PRESSURE 356.9	LEVELS 713.8	1405.3	2810.6	5576.5	11153.1	22306.1
5795.6	49.4(69.0)	72.4	64.69	67.03	67.73	64.06	57.82	52.03	40.17	21.16	-13.09	-72.75	-167.72
4385.7	73.8(73.2)	75.4	66.15	69.60	71.29	67.37	62.93	56.45	46.93	31.81	5.16	-40.72	-113.31
3549.3	77.4(76.6)	77.5	66.44	70.93	73.55	70.93	66.18	59.70	51.71	38.91	18.77	-20.94	-80.26
3000.0	80.4(79.4)	79.3	66.44	71.77	75.16	73.41	69.30	63.36	55.81	44.53	25.35	-6.98	-57.58
2615.2	82.8(81.6)	80.5	66.26	71.46	75.72	75.32	72.07	66.42	59.39	49.17	32.07	3.50	-41.00
2333.6	84.5(83.2)	81.1	64.66	70.77	75.65	76.15	74.21	68.55	61.56	52.11	36.53	10.71	-29.32
2121.3	85.9(84.3)	81.5	64.49	70.62	74.95	76.41	75.42	71.03	64.65	55.80	41.36	17.61	-19.05
1958.1	86.6(84.8)	81.6	63.79	70.29	74.92	76.34	75.79	71.99	66.31	57.90	44.34	22.20	-11.88
1831.2	86.9(84.9)	81.6	63.51	69.59	74.68	76.25	75.76	72.58	67.57	59.51	46.66	25.74	-6.32
1732.1	87.0(84.9)	81.6	63.44	69.49	74.45	76.15	75.85	72.65	67.72	59.93	47.59	27.66	-2.83
1655.1	86.9(84.7)	81.3	63.24	69.96	74.21	75.86	75.51	72.54	67.76	60.17	48.24	29.06	-.20
1594.3	86.7(84.5)	81.2	62.84	69.42	73.86	75.78	75.27	72.53	67.99	60.58	48.87	30.37	2.04
1552.9	86.6(84.4)	81.0	63.52	68.83	73.62	75.65	75.16	72.48	67.76	60.65	49.07	30.89	3.25
1523.1	86.4(84.1)	80.7	62.87	68.13	73.36	75.07	74.62	72.42	69.21	61.01	49.79	31.90	4.73
1505.7	86.4(84.0)	80.6	62.49	67.91	73.07	74.98	74.75	72.31	68.00	60.84	49.72	32.00	5.11
1500.6	86.2(83.8)	80.2	62.36	67.27	72.51	74.33	74.44	72.35	69.35	61.20	50.12	32.45	5.65
1505.7	86.1(83.6)	80.0	61.90	66.19	72.07	74.13	74.43	72.22	68.20	61.34	49.93	32.20	5.31
1523.1	85.8(83.3)	79.7	61.62	66.13	71.77	73.69	73.97	72.17	69.55	61.34	50.13	32.24	5.07
1552.9	85.7(83.2)	79.6	60.20	65.79	71.47	73.74	73.93	72.20	68.32	61.03	49.66	31.47	3.83
1594.3	85.3(82.7)	79.1	59.86	64.49	71.13	72.92	73.18	72.08	68.45	61.34	49.63	30.82	2.49
1655.1	84.7(82.2)	78.6	58.55	63.66	70.54	72.53	72.76	71.65	67.76	60.21	49.29	29.11	-.16

RUN NUMBER	= 226.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INCH)	= 0.000
PRIMARY TEMPERATURE (R)	= 533.000
SECONDARY TEMPERATURE (R)	= 533.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 4.856
VELOCITY RATIO	= 1.149
PRIMARY VELOCITY (FT/SEC)	= 900.324
MASS FLOW RATIO	= 7.009
PRIMARY MASS FLOW (LB/SEC)	= .203
THRUST (LBS)	= 51.455
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.578
ENVIRONMENTAL HUMIDITY (PER CENT)	= 58.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .024
INSTRUMENTATION NOISE FLOOR (DB)	= 58.584

ISOTROPIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.20718E+00	133.4
500	4.82067E-02	116.8
1000	1.53852E-01	121.9
2000	4.06356E-01	126.1
4000	5.34307E-01	127.3
8000	5.06891E-01	127.0
16000	3.46644E-01	125.4
31500	2.10877E-01	123.2

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	156.3
20000	159.3
40000	162.3
80000	165.4

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	97.1	99.6	100.1	98.1	91.7	80.1	65.9	105.3
20.0	96.4	100.3	101.4	99.8	94.9	90.6	86.8	106.2
25.0	94.7	99.6	102.1	100.0	96.2	92.1	88.1	106.5
30.0	93.2	98.2	102.0	101.0	98.3	93.8	90.1	106.8
35.0	89.7	96.9	101.6	100.9	99.0	95.0	91.1	106.6
40.0	89.3	95.0	100.5	101.6	99.9	96.1	92.3	106.5
45.0	87.0	93.4	98.8	100.6	100.5	97.6	94.2	106.2
50.0	85.6	92.6	97.8	99.7	100.1	98.3	95.1	105.9
55.0	84.7	90.9	96.5	98.9	98.9	97.6	94.7	104.8
60.0	83.9	89.9	95.7	98.1	98.6	96.8	94.0	104.1
65.0	82.7	89.5	94.8	97.2	97.9	96.3	93.6	103.4
70.0	83.0	88.9	94.4	96.9	97.4	95.8	93.5	103.1
75.0	82.5	88.0	93.5	96.4	96.7	95.1	92.9	102.6
80.0	82.2	87.8	93.2	96.2	96.5	95.2	93.3	102.3
85.0	82.1	87.1	92.8	95.7	96.1	94.9	93.2	101.9
90.0	81.2	86.6	92.3	95.1	95.9	94.9	93.7	101.7
95.0	80.8	85.6	91.7	94.8	96.0	95.4	94.1	101.7
100.0	80.7	85.4	91.6	95.2	95.9	95.4	94.5	101.9
105.0	80.2	85.2	91.0	94.5	96.0	95.7	94.5	101.8
110.0	79.7	84.7	91.4	94.6	96.3	96.1	95.0	102.1
115.0	78.9	84.0	90.9	94.5	96.1	96.3	95.3	102.1

MODEL THRUST = 51.455 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	25.4	50.7	101.4	202.9	405.8	811.6	1597.4	3195.5	6340.3	12680.6	25361.3
8795.6	74.7(74.5)	76.0	68.30	70.77	71.04	68.54	60.73	55.43	42.51	21.21	-16.89	-82.37	-144.80
6385.7	79.3(78.9)	79.4	69.99	73.85	74.81	72.05	66.84	59.80	49.61	32.74	3.29	-47.08	-125.32
3549.3	82.7(82.1)	81.5	70.18	75.02	77.38	74.98	70.34	63.98	54.92	40.61	16.11	-25.15	-89.04
3000.0	85.6(84.8)	83.2	70.15	75.07	78.84	77.54	74.06	67.71	59.65	47.17	26.00	-9.33	-63.80
2615.2	87.4(86.4)	84.1	67.79	74.99	79.44	78.72	76.12	70.45	62.74	51.50	32.00	1.47	-44.39
2333.6	89.3(88.1)	85.0	66.41	74.88	79.46	80.38	78.12	72.85	65.57	55.30	36.17	10.02	-33.02
2121.3	90.7(89.3)	85.3	66.45	73.26	78.60	80.29	79.80	75.43	68.46	58.14	40.31	17.45	-21.95
1958.1	91.4(89.8)	85.5	66.23	73.20	78.30	80.10	80.03	76.93	70.77	61.58	44.72	22.62	-13.94
1831.2	91.3(89.5)	85.1	65.93	72.93	77.69	79.85	79.67	76.79	71.40	62.62	48.53	25.79	-8.63
1732.1	91.3(89.4)	85.0	65.59	71.57	77.32	79.61	79.51	76.77	71.46	62.99	49.50	27.83	-6.89
1655.1	91.2(89.2)	84.7	64.82	71.59	76.81	79.04	79.32	76.73	71.42	63.00	50.37	29.53	-5.45
1596.3	91.2(89.2)	84.7	65.40	71.32	76.72	79.13	79.23	76.62	71.99	63.45	51.29	31.08	-.69
1552.9	90.9(88.7)	84.2	65.10	70.63	76.69	78.85	78.72	76.17	71.71	63.61	51.40	31.66	2.02
1523.1	91.0(88.8)	84.3	64.98	70.59	75.91	78.79	78.70	76.49	72.36	64.55	52.33	32.91	3.79
1505.7	90.8(88.4)	84.0	64.99	69.97	75.69	78.38	78.62	76.24	72.41	64.66	52.54	33.31	4.68
1500.0	90.9(88.6)	83.8	64.11	69.53	75.20	77.48	78.31	76.37	72.90	65.16	53.09	33.91	5.14
1505.7	91.1(88.7)	83.7	63.74	68.67	74.41	77.55	78.33	76.75	73.27	65.52	53.49	34.17	5.33
1523.1	91.2(88.9)	83.7	63.53	67.73	74.33	77.41	78.15	76.70	73.50	65.74	53.57	34.15	5.22
1552.9	90.9(88.6)	83.4	62.78	67.45	73.56	76.97	78.02	76.81	73.36	65.66	53.45	33.91	4.97
1596.3	90.9(88.6)	83.4	62.05	67.10	73.15	76.75	78.07	76.96	73.43	65.39	52.72	32.52	3.13
1655.1	90.6(88.3)	82.9	60.93	66.07	72.88	76.38	77.55	76.73	73.33	65.11	52.09	31.24	-.15

RUN NUMBER	
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 227.000
PRIMARY TEMPERATURE (R)	= 4.400
SECONDARY TEMPERATURE (R)	= 517.000
PRIMARY PRESSURE RATIO	= 526.000
AREA RATIO	= 1.600
VELOCITY RATIO	= 9.788
PRIMARY VELOCITY (FT/SEC)	= .369
MASS FLOW RATIO	= 886.709
PRIMARY MASS FLOW (LM/SEC)	= 3.201
THRUST (LMS)	= .207
ENVIRONMENTAL TEMPERATURE (R)	= 12.055
ENVIRONMENTAL PRESSURE (IN.HG)	= 521.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.810
CALIBRATION FACTOR (MV TO DYNS/CM)	= 50.000
INSTRUMENTATION NOISE FLOOR (DB)	= .004
	= 47.532

JUSTICE POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	8.36025E-02	119.2
500	1.32854E-03	101.2
1000	4.19377E-03	106.2
2000	1.43582E-02	111.6
4000	2.14623E-02	113.3
8000	2.12839E-02	113.3
16000	1.30375E-02	111.2
31500	7.93828E-03	109.0

OVERALL SOUND POWER LEVEL-SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	148.4
20000	151.4
40000	154.4
80000	157.4

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	79.0	85.0	89.4	87.3	82.1	76.5	74.7	93.1
20.0	78.0	84.2	89.7	89.2	85.4	80.3	77.0	94.2
25.0	77.0	83.7	89.5	90.3	88.0	83.6	79.9	95.1
30.0	75.6	81.9	88.2	90.1	89.1	85.3	81.8	95.0
35.0	74.8	80.3	86.4	89.1	89.1	86.1	82.6	94.5
40.0	73.1	78.4	84.8	87.5	88.3	85.9	82.7	93.4
45.0	72.1	76.7	82.9	85.6	86.8	85.1	82.4	92.0
50.0	72.2	75.6	81.3	84.3	85.8	84.5	82.2	91.1
55.0	70.9	75.2	80.6	83.6	84.9	83.5	81.5	90.3
60.0	70.5	74.8	79.7	82.8	84.2	82.7	80.6	89.5
65.0	70.6	74.3	79.0	81.7	82.9	81.6	80.0	88.5
70.0	69.8	74.3	78.6	81.2	82.2	80.9	79.4	87.9
75.0	69.9	73.7	77.9	80.7	81.3	80.2	79.0	87.2
80.0	69.8	73.4	77.0	79.6	80.5	79.4	78.3	86.4
85.0	69.6	72.8	77.0	79.6	79.8	78.7	77.5	86.0
90.0	69.6	72.7	76.6	78.4	79.3	78.2	77.1	85.4
95.0	68.6	72.4	76.4	78.1	78.9	77.6	76.7	85.0
100.0	68.3	71.5	75.7	77.7	78.0	76.8	76.2	84.3
105.0	67.7	70.9	75.3	76.8	77.4	76.2	75.9	83.7
110.0	67.8	70.4	74.4	76.4	77.1	75.9	75.7	83.3
115.0	66.8	69.8	73.9	75.6	76.2	75.2	75.3	82.7

MODEL THRUST = 12.055 FULL SCALE THRUST = 20000.000

L.	PNDB.		OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 12.3	24.6	49.1	98.2	196.4	392.8	773.4	1546.7	3068.9	6137.8	12275.5
5795.6	65.7	64.5	70.4	56.49	62.50	66.85	64.56	58.92	51.91	46.75	35.54	15.13	-22.25	-86.22
4385.7	71.9	70.4	73.8	57.89	64.11	69.57	68.99	64.83	58.66	52.82	43.60	27.43	-1.59	-50.73
3549.3	76.8	75.0	76.5	58.76	65.45	71.17	71.97	69.37	64.11	59.26	50.23	36.57	12.52	-27.82
3000.0	79.8	77.6	77.9	58.80	65.15	71.41	73.25	71.91	67.50	62.18	54.93	42.92	22.12	-12.44
2615.2	81.4	78.9	78.5	59.22	66.67	70.76	73.40	73.24	69.58	64.54	57.84	46.99	28.47	-2.05
2333.4	82.1	79.3	78.5	58.49	63.82	70.17	72.55	73.43	70.48	65.88	59.58	49.57	32.72	5.17
2121.3	82.2	79.1	77.9	58.35	62.97	69.08	71.77	72.78	70.58	66.65	60.65	51.27	35.69	10.37
1958.1	82.5	79.1	77.7	59.13	62.54	68.21	71.17	72.44	70.75	67.28	61.51	52.62	38.01	14.41
1831.7	82.3	78.8	77.5	59.44	62.69	68.13	71.02	72.17	70.31	67.29	61.69	53.19	39.33	17.06
1732.1	82.1	78.5	77.2	59.53	62.78	67.66	70.70	71.97	70.07	66.94	61.49	53.29	40.01	18.79
1655.1	81.7	77.9	76.8	59.02	62.70	67.39	70.44	71.05	69.44	66.79	61.45	53.48	40.66	20.25
1596.3	81.5	77.6	76.4	58.49	63.01	67.29	69.92	70.13	69.06	66.63	61.37	53.57	41.10	21.31
1552.9	81.1	77.1	76.0	58.96	62.60	66.77	69.58	70.01	68.56	66.46	61.26	53.60	41.39	22.05
1523.1	80.5	76.5	75.3	58.90	62.54	66.12	68.81	69.40	67.97	65.92	60.76	53.18	41.15	22.12
1505.7	80.0	76.0	75.0	58.77	61.99	66.16	68.75	68.87	67.37	65.30	60.16	52.64	40.71	21.87
1500.0	79.5	75.5	74.5	58.81	61.94	65.96	67.62	68.40	66.89	64.96	59.82	52.31	40.41	21.63
1505.7	79.0	74.9	74.0	57.81	61.67	65.66	67.21	67.96	66.29	64.49	59.36	51.83	39.90	21.06
1523.1	78.1	74.0	73.2	57.65	60.66	64.42	66.71	66.90	65.12	63.85	58.70	51.12	39.08	20.06
1552.9	77.4	73.2	72.5	56.59	59.97	64.24	65.46	64.17	64.55	63.39	58.19	50.52	38.31	19.97
1596.3	76.4	72.1	71.8	56.50	59.10	63.04	65.35	64.57	63.49	62.92	57.66	49.86	37.39	17.60
1655.1	75.7	71.5	70.8	55.14	58.22	62.24	63.99	64.42	63.01	62.16	56.82	48.84	36.02	15.62

RUN NUMBER	= 22H.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.H00
PRIMARY TEMPERATURE (R)	= 527.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 9.7HH
VELOCITY RATIO	= .69H
PRIMARY VELOCITY (FT/SEC)	= H95.242
MASS FLOW RATIO	= 6.6HH
PRIMARY MASS FLOW (LB/SEC)	= .207
THRUST (LBS)	= 32.39H
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.610
ENVIRONMENTAL HUMIDITY (PER CENT)	= 58.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .013
INSTRUMENTATION NOISE FLOOR (DB)	= 51.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.90089E-01	124.6
500	8.71741E-03	109.4
1000	2.64001E-02	114.2
2000	5.95475E-02	117.7
4000	7.0H143E-02	118.5
8000	6.69362E-02	118.3
16000	3. 2015E-02	115.8
31500	1.97121E-02	112.9

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	149.5
20000	152.5
40000	155.5
80000	158.6

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	87.4	90.5	90.8	87.8	83.9	79.4	77.3	95.9
20.0	86.8	90.8	92.5	90.7	87.2	82.5	80.0	97.4
25.0	85.6	90.4	93.3	92.9	90.2	86.6	83.2	98.6
30.0	84.4	89.5	93.4	94.2	92.7	88.9	85.0	99.5
35.0	83.1	88.3	92.5	94.2	94.4	91.1	86.7	99.9
40.0	82.0	87.0	90.9	92.6	92.9	90.4	86.6	98.6
45.0	80.9	86.0	90.1	91.7	92.5	90.1	86.5	98.0
50.0	80.2	85.0	89.2	90.5	90.8	89.1	86.4	96.8
55.0	79.6	84.8	88.5	89.8	90.4	88.3	85.5	96.2
60.0	78.5	83.4	87.8	89.0	39.4	87.6	85.5	95.4
65.0	78.7	83.5	87.5	88.6	88.7	86.8	83.8	94.8
70.0	77.4	83.0	87.0	87.8	87.6	85.4	82.7	93.9
75.0	77.8	82.7	86.7	87.2	87.0	85.1	82.9	93.5
80.0	77.2	82.4	85.9	86.6	86.1	84.4	82.0	92.8
85.0	76.7	82.1	85.4	86.1	85.6	83.7	81.4	92.3
90.0	76.7	81.4	85.0	85.5	85.2	83.1	81.1	91.8
95.0	75.8	81.2	84.8	85.0	84.6	82.6	80.6	91.4
100.0	75.1	80.4	84.2	84.1	83.8	81.7	80.0	90.6
105.0	75.0	80.3	83.8	83.8	83.5	81.5	79.9	90.4
110.0	74.0	79.6	83.3	83.2	83.1	81.1	79.6	89.8
115.0	74.3	78.4	82.7	82.6	82.3	80.5	79.4	89.2

MODEL THRUST = 32.39H FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	20.1	OCTAVE 40.2	BAND 80.5	SOUND 161.0	PRESSURE 322.0	LEVELS 644.0	1287.8	2575.6	5031.0	10062.0	20124.1
5795.6	65.0(64.5)	68.7	60.59	63.68	63.87	66.52	55.58	48.40	39.88	22.54	-8.87	-64.13	-153.29
4388.7	71.2(70.4)	72.6	62.41	66.35	66.06	65.95	61.70	54.95	47.56	33.71	9.22	-33.33	-101.53
3549.3	76.4(75.3)	75.6	63.09	67.62	70.71	70.98	66.73	61.68	54.14	42.36	21.97	-13.04	-64.81
3000.0	80.2(78.9)	77.9	63.32	68.43	72.21	72.82	70.84	65.62	58.44	46.02	30.32	.26	-47.34
2615.2	83.0(81.6)	79.4	63.16	68.40	72.60	74.12	73.84	69.28	62.03	52.56	36.74	10.16	-31.72
2333.6	85.2(83.6)	79.1	63.09	68.10	71.96	73.69	73.42	69.77	63.66	54.89	40.45	16.40	-21.29
2121.3	83.8(81.8)	79.3	62.85	67.88	71.97	73.45	73.87	70.52	64.58	56.33	42.93	20.80	-13.73
1950.1	83.5(81.3)	78.9	62.82	67.65	71.75	72.98	72.93	70.25	65.40	57.55	44.96	24.30	-7.91
1831.2	83.7(81.4)	78.9	62.79	67.97	71.65	72.89	73.16	70.22	65.37	57.64	45.87	26.35	-3.87
1732.1	83.5(81.1)	78.6	62.18	67.08	71.47	72.51	72.68	70.06	65.99	58.70	47.22	28.60	-.15
1655.1	83.1(80.7)	78.4	62.76	67.55	71.52	72.53	72.32	69.44	64.85	57.76	46.65	29.72	1.12
1586.3	82.5(80.0)	77.9	61.77	67.43	71.41	72.06	71.59	68.65	64.20	57.25	46.43	29.03	2.30
1552.8	82.4(79.8)	77.7	62.45	67.29	71.27	71.70	71.19	68.62	64.65	57.81	47.20	30.19	4.11
1523.1	81.9(79.2)	77.2	62.03	67.15	70.71	71.32	70.55	68.10	64.04	57.27	46.81	30.07	4.43
1505.7	81.4(78.8)	76.8	61.58	66.94	70.30	70.89	70.13	67.48	63.57	56.84	46.46	29.88	4.50
1500.0	80.9(78.3)	76.4	61.62	66.35	69.87	70.35	69.72	66.94	63.29	56.58	46.23	29.70	4.40
1505.7	81.4(77.7)	75.9	60.74	66.12	69.69	69.82	69.09	66.40	62.76	56.02	45.64	29.06	3.68
1523.1	79.4(76.8)	75.0	59.40	65.23	69.01	68.91	68.18	65.38	61.99	55.22	44.76	28.02	2.38
1552.8	79.0(76.4)	74.6	59.64	64.30	68.39	68.33	67.77	65.06	61.64	54.83	44.22	27.22	1.13
1594.3	78.2(75.5)	73.8	58.36	63.45	67.63	67.67	67.05	64.32	61.07	54.12	43.30	25.90	-.83
1655.1	77.2(74.5)	72.8	58.37	62.65	66.71	66.93	66.46	63.40	60.46	53.36	42.25	24.32	-3.28

RUN NUMBER	
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (I/D.)	= 229.000
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 535.000
AREA RATIO	= 1.600
VELOCITY RATIO	= 0.700
PRIMARY VELOCITY (FT/SEC)	= 1.605
MASS FLOW RATIO	= 897.787
PRIMARY MASS FLOW (LB/SEC)	= 10.581
THRUST (LBS)	= .207
ENVIRONMENTAL TEMPERATURE (R)	= 67.017
ENVIRONMENTAL PRESSURE (IN.HG)	= 523.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.810
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 50.000
INSTRUMENTATION NOISE FLOOR (DB)	= .036
	= 68.584

SUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.27905E+00	133.6
500	7.20506E-02	118.6
1000	2.50989E-01	124.0
2000	5.24463E-01	127.2
4000	5.45706E-01	127.4
8000	4.73960E-01	126.8
16000	2.74209E-01	124.4
31500	1.37619E-01	121.4

OVERALL SOUND POWER LEVEL-SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	155.3
20000	158.3
40000	161.3
80000	164.3

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
18.0	97.7	100.6	99.8	98.3	92.9	88.9	85.2	105.4
20.0	97.1	101.9	101.9	98.5	95.4	91.3	88.1	106.9
25.0	95.8	101.2	102.8	100.2	97.7	93.9	90.3	107.5
30.0	94.7	100.8	102.6	101.2	98.5	94.8	91.6	107.6
35.0	92.2	99.3	103.1	102.7	100.6	97.2	93.0	108.3
40.0	91.2	97.1	101.2	101.5	100.6	97.3	93.5	107.2
45.0	89.6	95.6	99.8	100.7	100.4	97.6	94.1	106.6
50.0	88.4	94.2	98.6	99.8	99.7	97.6	94.2	105.8
55.0	87.0	93.4	97.8	99.2	99.4	97.2	94.0	105.2
60.0	86.6	92.0	97.0	98.4	98.7	96.6	94.0	104.5
65.0	86.3	91.8	96.7	97.6	97.6	95.7	92.7	103.7
70.0	85.8	91.2	96.0	97.2	97.1	95.1	92.2	103.2
75.0	85.8	90.9	95.4	96.3	96.5	94.7	91.8	102.6
80.0	85.4	90.6	94.9	96.1	95.9	93.8	91.2	102.1
85.0	84.7	90.0	94.4	95.6	95.4	93.5	91.0	101.7
90.0	84.3	89.6	94.0	95.1	94.9	92.9	90.5	101.2
95.0	84.1	89.3	93.8	94.7	94.4	92.5	90.0	100.8
100.0	83.4	89.0	93.5	94.3	94.1	92.2	89.9	100.5
105.0	83.3	88.1	92.9	93.6	93.7	91.9	89.7	100.0
110.0	82.3	87.5	92.5	93.5	93.6	92.1	89.8	99.8
115.0	81.5	86.7	92.3	93.2	93.4	92.1	89.5	99.6

MODEL THRUST = 67.017 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	28.9	OCTAVE 57.9	BAND 115.8	SOUND 231.5	PRESSURE 463.1	LEVELS 926.2	1823.4	3646.8	7235.8	14471.6	28943.2
8795.6	72.8(72.7)	74.9	67.74	70.59	69.54	65.49	60.31	51.95	38.46	14.52	-27.89	-99.71	-218.03
4385.7	78.5(78.2)	78.9	69.58	74.30	74.17	70.32	65.45	58.46	47.85	29.01	-3.82	-58.90	-143.11
3849.3	82.6(82.1)	81.2	70.10	75.44	76.92	73.91	70.41	63.91	54.35	38.53	11.39	-33.75	-102.48
3806.8	85.2(84.6)	82.8	70.50	76.46	78.21	76.45	72.87	66.95	58.65	44.82	21.41	-17.21	-79.77
2615.2	88.1(87.3)	84.6	69.15	76.18	79.88	79.27	76.62	70.96	62.41	49.96	29.17	-4.88	-58.31
2333.6	88.8(87.8)	86.4	69.14	75.06	79.03	79.07	77.52	72.36	64.66	53.23	34.36	3.65	-42.56
2121.3	89.6(88.5)	84.5	68.33	74.38	78.45	79.19	78.26	73.85	66.74	56.08	38.65	10.46	-31.82
1954.1	89.9(88.6)	84.4	67.82	73.67	77.99	78.98	78.24	74.71	67.96	57.89	41.57	15.32	-23.94
1831.2	90.2(88.8)	84.4	67.06	73.46	77.74	78.95	78.41	75.00	68.76	59.14	43.69	18.95	-17.96
1732.1	90.3(88.7)	84.2	67.12	72.50	77.41	78.68	78.42	75.04	69.48	60.22	45.44	21.87	-13.20
1652.1	89.8(88.2)	83.9	67.22	72.73	77.51	78.25	77.79	74.91	69.87	59.89	45.43	22.98	-10.67
1586.3	89.7(88.0)	83.7	67.07	72.44	77.13	78.20	77.58	74.44	68.80	60.03	46.17	24.22	-8.34
1532.9	89.4(87.7)	83.3	67.23	72.34	76.93	77.91	77.24	74.30	68.84	60.23	46.66	25.22	-6.53
1523.1	89.1(87.4)	83.0	67.08	72.24	76.45	77.47	76.88	73.57	68.40	59.90	46.54	25.45	-5.75
1505.7	88.8(87.0)	82.7	66.49	71.74	76.07	77.15	76.48	73.47	68.41	59.97	46.73	25.85	-5.04
1500.0	88.3(86.5)	82.2	66.06	71.35	75.75	76.65	75.97	72.84	67.93	59.51	46.31	25.50	-5.28
1505.7	87.8(86.1)	81.9	65.84	71.04	75.46	76.22	75.50	72.39	67.40	58.96	45.72	24.84	-6.04
1523.1	87.4(85.7)	81.4	65.03	70.49	75.09	75.75	75.09	72.06	67.17	58.67	45.31	24.22	-6.98
1552.9	86.8(85.0)	80.7	64.76	69.58	74.36	75.42	74.44	71.53	66.91	58.30	44.74	23.30	-8.45
1596.3	86.3(84.6)	80.2	63.51	68.74	73.69	74.90	74.10	71.66	66.38	57.62	43.76	21.80	-10.76
1659.1	85.7(84.0)	79.7	62.45	67.63	73.10	73.94	73.63	71.02	65.64	56.66	42.48	19.75	-13.90

MACH NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	= 230.000
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 530.000
AREA RATIO	= 1.500
VELOCITY RATIO	= 0.748
PRIMARY VELOCITY (FT/SEC)	= 1.157
MASS FLOW RATIO	= 897.787
PRIMARY MASS FLOW (LB/SEC)	= 12.441
THRUST (LBS)	= .212
ENVIRONMENTAL TEMPERATURE (R)	= 90.869
ENVIRONMENTAL PRESSURE (IN.HG)	= 523.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.630
CALIBRATION FACTOR (MV TO DY/S) CM)	= 50.000
INSTRUMENTATION NOISE FLOOR (DB)	= .056
	= 64.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.81226E+00	138.3
500	2.01793E-01	123.0
1000	6.94439E-01	128.4
2000	1.45356E+00	131.6
4000	1.47538E+00	131.7
8000	1.41682E+00	131.5
16000	9.66914E-01	129.9
31500	6.01352E-01	127.8

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.7
20000	161.8
40000	164.8
80000	167.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	102.4	105.7	105.2	101.7	98.8	95.6	92.3	110.6
20.0	101.7	106.5	106.6	102.8	100.0	96.9	93.9	111.5
25.0	100.8	106.4	107.8	104.3	101.7	98.8	95.8	112.3
30.0	99.8	105.6	108.2	105.8	103.4	100.2	97.0	112.7
35.0	97.6	104.0	107.5	106.5	104.3	101.1	97.5	112.5
40.0	95.7	101.9	106.2	106.2	105.2	102.1	99.1	112.0
45.0	93.6	99.7	104.2	105.6	105.3	102.1	98.8	111.2
50.0	92.2	98.2	102.9	104.3	104.8	102.3	99.3	110.5
55.0	91.7	97.0	101.7	103.5	104.2	102.3	99.6	109.8
60.0	89.8	95.8	101.1	102.7	103.4	102.0	99.7	109.2
65.0	90.2	95.4	100.3	102.1	102.4	100.6	98.1	108.2
70.0	89.6	94.8	99.5	101.5	101.7	100.1	98.0	107.6
75.0	89.0	94.3	98.9	100.5	100.9	99.6	97.7	107.0
80.0	88.6	93.5	98.4	99.9	100.2	99.3	98.0	106.5
85.0	88.3	93.3	97.8	99.3	99.9	99.0	97.9	106.1
90.0	88.3	92.7	97.4	99.0	99.8	99.2	97.9	106.0
95.0	87.6	92.4	97.3	98.6	99.4	98.5	97.4	105.6
100.0	86.5	91.7	96.7	98.0	99.1	99.3	99.3	105.6
105.0	86.3	92.1	96.7	98.0	99.3	99.5	98.5	105.7
110.0	85.5	91.1	96.4	97.8	99.3	100.0	99.0	105.9
115.0	84.9	90.7	96.0	97.8	99.2	99.9	98.4	105.6

MODEL THRUST = 90.869 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE BAND SOUND PRESSURE LEVELS								
			33.7	67.4	134.8	269.6	539.2	1078.5	2123.3	4246.5	8425.6	16851.2	33702.5
5795.6	77.7(77.6)	78.7	71.07	74.28	73.51	69.23	64.20	55.79	40.81	13.47	-34.38	-113.95	-233.57
4385.7	82.5(82.3)	82.1	72.86	77.57	77.51	73.09	68.68	61.57	49.70	28.28	-8.66	-69.60	-160.85
3549.3	86.2(85.9)	84.6	73.80	79.34	80.52	76.54	72.46	66.50	56.40	38.49	8.02	-41.87	-116.29
3000.0	89.3(88.8)	86.5	74.22	79.94	82.48	79.64	76.18	70.17	60.96	45.35	19.14	-23.50	-86.86
2615.2	91.1(90.5)	87.4	73.26	79.62	82.97	81.66	79.46	72.90	64.05	50.07	26.83	-10.72	-66.34
2333.6	92.3(91.5)	87.6	72.31	78.50	82.68	82.34	80.50	75.23	67.57	54.77	33.71	-.12	-50.07
2121.3	92.9(92.0)	87.7	71.01	77.14	81.56	82.59	81.52	76.37	68.82	56.91	37.49	6.46	-39.22
1958.1	93.4(92.4)	87.5	70.38	76.28	80.94	82.09	81.87	77.58	70.63	59.41	41.25	12.38	-30.02
1831.2	93.7(92.5)	87.4	70.47	75.67	80.35	81.89	81.85	78.32	71.92	61.23	44.06	16.87	-22.98
1732.1	93.8(92.4)	87.2	69.04	74.97	80.17	81.67	81.65	78.68	72.84	62.60	46.20	20.32	-17.54
1655.1	93.2(91.9)	86.8	69.83	74.43	79.81	81.40	81.07	77.73	71.91	61.95	46.15	21.28	-15.02
1596.3	93.1(91.7)	86.5	69.51	74.65	79.34	81.08	80.71	77.63	72.32	62.62	47.26	23.17	-11.95
1552.9	93.0(91.5)	86.1	69.17	74.44	79.01	80.34	80.23	77.48	72.45	62.93	47.91	24.39	-9.86
1523.1	93.1(91.5)	85.7	68.89	73.84	78.60	79.92	79.78	77.36	72.94	63.59	48.40	25.68	-7.97
1505.7	93.0(91.4)	85.4	68.71	73.72	78.12	79.42	79.44	77.22	73.04	63.72	49.06	26.17	-7.13
1500.0	93.0(91.4)	85.3	68.74	73.11	77.41	79.12	79.44	77.41	73.15	63.85	49.24	26.42	-6.76
1505.7	92.5(90.9)	84.8	68.02	72.66	77.42	78.71	79.26	76.74	72.61	63.29	48.63	25.74	-7.56
1523.1	92.7(91.0)	84.5	68.24	72.13	76.99	78.40	78.58	77.36	73.29	63.84	49.11	25.98	-7.47
1552.9	92.4(91.0)	84.5	66.43	72.19	76.77	77.46	78.56	77.33	73.22	63.69	48.68	25.16	-9.09
1596.3	92.5(90.9)	84.2	65.45	72.44	76.27	77.44	78.33	77.60	73.35	63.65	48.29	24.20	-10.92
1655.1	91.6(90.0)	83.6	64.46	70.30	75.50	77.04	77.88	77.09	72.26	62.31	46.50	21.63	-14.67

RUN NUMBER	= 231.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INCH)	= 9.000
PRIMARY TEMPERATURE (R)	= 527.000
SECONDARY TEMPERATURE (R)	= 540.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .381
PRIMARY VELOCITY (FT/SEC)	= 1209.998
MASS FLOW RATIO	= .319
PRIMARY MASS FLOW (LB/SEC)	= .333
THRUST (LBS)	= 14.049
ENVIRONMENTAL TEMPERATURE (R)	= 524.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.550
ENVIRONMENTAL HUMIDITY (PER CENT)	= 60.000
CALIBRATION FACTOR (MV TO DYNES/SQ CM)	= .040
INSTRUMENTATION NOISE FLOOR (DB)	= 61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.730800E+00	132.4
500	4.719838E-03	106.7
1000	3.273146E-02	115.1
2000	1.981866E-01	123.0
4000	4.598556E-01	126.6
8000	5.262546E-01	127.2
16000	3.150906E-01	125.0
31500	1.919636E-01	122.8

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.9
20000	163.9
40000	166.9
80000	169.9

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	85.9	95.2	102.4	104.5	103.5	97.8	91.8	109.0
20.0	85.6	94.6	102.1	104.5	103.3	98.2	93.5	108.9
25.0	84.3	93.7	101.9	104.6	103.4	98.1	93.5	108.9
30.0	82.5	91.6	100.1	104.3	103.4	98.6	94.1	108.5
35.0	80.6	89.4	98.5	102.9	103.3	99.7	95.8	107.9
40.0	78.5	87.3	96.2	100.8	102.0	99.3	96.9	106.5
45.0	77.1	85.1	93.0	98.4	100.3	98.8	95.7	105.0
50.0	76.1	83.5	91.0	96.0	98.6	97.8	95.5	103.5
55.0	75.2	82.6	89.7	94.4	96.9	96.4	95.5	102.2
60.0	74.6	81.5	88.8	93.3	95.8	95.5	94.8	101.3
65.0	74.9	81.6	88.0	92.6	1-95.4	95.2	94.7	100.9
70.0	74.0	80.8	87.6	92.0	94.7	94.9	93.8	100.3
75.0	74.0	80.1	86.6	91.0	93.8	93.7	93.0	99.3
80.0	73.6	78.5	86.5	90.5	93.0	93.3	92.5	98.8
85.0	72.8	79.8	86.3	90.2	93.0	92.8	92.0	98.5
90.0	72.0	79.4	85.8	89.9	92.7	92.5	91.5	98.1
95.0	72.4	79.0	85.1	89.0	92.2	92.0	90.8	97.5
100.0	72.4	79.0	84.6	88.6	91.9	91.5	90.1	97.1
105.0	71.6	78.1	83.8	88.1	91.2	91.0	89.6	96.5
110.0	71.6	77.4	83.2	87.7	90.7	90.3	89.0	95.9
115.0	70.6	77.1	82.9	87.2	90.3	90.0	88.5	95.5

MODEL THRUST = 14.049 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 13.3	26.5	53.0	106.0	212.0	424.1	834.9	1669.7	3313.0	6625.9	13251.8
5795.6	86.0(85.2)	85.3	62.74	72.04	79.19	81.06	79.51	72.34	62.54	50.56	28.71	-11.09	-78.64
4385.7	89.2(88.0)	87.7	64.40	73.97	81.27	83.60	8.93	75.69	68.13	58.34	41.08	10.23	-41.62
3549.3	91.6(90.1)	89.6	65.36	74.77	82.97	85.59	84.04	77.80	70.85	62.35	47.81	22.27	-20.26
3000.0	93.4(91.6)	90.7	65.07	74.10	82.64	86.75	85.58	79.93	73.54	65.89	53.14	31.08	-5.33
2615.2	95.0(92.8)	91.3	64.39	73.16	82.17	86.49	86.72	82.43	76.79	69.74	58.24	38.63	6.51
2333.6	95.2(92.6)	90.8	63.20	72.05	80.90	85.40	86.40	83.07	78.31	71.70	61.11	43.29	14.30
2121.3	95.2(92.2)	90.1	62.08	70.44	78.56	83.88	85.53	83.54	79.08	72.80	62.98	46.43	19.80
1958.1	95.0(91.7)	89.3	62.36	69.77	77.25	82.15	84.57	83.26	79.71	73.68	64.31	48.87	24.07
1831.2	94.8(91.1)	88.7	62.08	69.46	76.53	81.14	83.53	82.53	80.42	74.59	65.63	51.00	27.51
1732.1	94.5(90.7)	88.2	61.95	68.78	76.09	80.57	82.47	82.12	80.30	74.62	65.99	51.99	29.70
1655.1	94.4(90.8)	88.3	62.06	69.33	75.70	80.22	82.41	82.29	80.67	75.11	66.72	53.21	31.74
1596.3	94.6(90.6)	88.0	61.79	68.65	75.40	79.92	82.54	82.28	80.14	74.67	66.46	53.34	32.56
1552.9	93.9(89.8)	87.3	62.23	69.39	75.03	79.18	81.82	81.31	79.62	74.21	66.16	53.30	33.00
1523.1	93.6(89.5)	86.9	62.04	66.47	74.91	74.84	81.24	81.18	79.35	73.99	66.03	53.36	33.40
1505.7	93.3(89.2)	86.7	61.38	68.29	74.81	78.64	81.29	80.75	78.97	73.64	65.74	53.18	33.41
1500.0	93.0(88.9)	86.4	60.59	67.93	74.33	78.37	81.03	80.50	78.68	73.16	65.28	52.75	33.05
1505.7	92.3(88.3)	85.8	60.98	67.50	73.44	77.44	80.58	79.42	77.80	72.47	64.47	52.01	32.24
1523.1	91.6(87.7)	85.2	60.48	67.40	73.07	76.96	80.09	78.91	77.31	71.93	63.87	51.00	31.04
1552.9	90.9(86.9)	84.5	59.94	66.36	72.01	76.27	79.29	78.66	76.42	71.01	62.96	50.10	29.50
1596.3	89.9(86.0)	83.6	59.60	65.41	71.22	75.63	78.55	77.68	75.34	69.87	61.68	48.54	27.76
1655.1	89.1(85.2)	82.8	58.32	64.44	70.61	74.82	77.77	77.04	74.43	69.07	60.49	46.98	25.94

RUN NUMBER	232.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	0.000
PRIMARY TEMPERATURE (R)	537.000
SECONDARY TEMPERATURE (R)	530.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	1.000
VELOCITY RATIO	.712
PRIMARY VELOCITY (FT/SEC)	1221.416
MASS FLOW RATIO	.685
PRIMARY MASS FLOW (LB/SEC)	.337
THRUST (LBS)	19.005
ENVIRONMENTAL TEMPERATURE (R)	524.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.510
ENVIRONMENTAL HUMIDITY (PER CENT)	60.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	.032
INSTRUMENTATION NOISE FLOOR (DB)	59.573

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.09562E+00	130.4
500	7.71718E-03	108.9
1000	4.27087E-02	116.3
2000	1.68875E-01	122.3
4000	2.83436E-01	124.5
8000	3.03366E-01	124.8
16000	1.66675E-01	122.2
31500	1.22842E-01	120.9

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.6
20000	160.6
40000	163.6
80000	166.6

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	88.7	96.4	100.6	64.9	97.8	91.8	85.1	103.9
20.0	88.2	96.2	101.5	102.4	99.8	93.1	86.9	106.9
25.0	86.4	95.0	101.2	102.5	100.4	94.6	89.0	107.0
30.0	85.3	92.8	99.6	102.5	101.1	96.0	91.1	106.8
35.0	82.9	90.8	97.6	101.2	101.1	96.9	93.1	106.0
40.0	80.8	88.4	95.4	99.1	100.1	97.1	93.3	104.8
45.0	79.0	85.9	92.6	96.8	98.4	96.6	93.9	103.2
50.0	77.8	84.2	90.5	94.7	96.9	95.6	93.9	101.9
55.0	76.5	83.4	89.0	93.3	95.4	94.6	94.4	100.9
60.0	76.0	82.3	88.5	92.1	93.7	92.8	93.5	99.6
65.0	75.8	82.1	88.2	91.5	93.2	92.5	92.9	99.1
70.0	76.0	81.8	87.2	90.6	92.4	91.7	92.2	98.3
75.0	75.4	81.4	86.9	90.1	91.7	91.3	91.4	97.7
80.0	74.9	80.8	86.4	89.3	91.2	90.5	90.8	97.1
85.0	73.8	80.5	85.6	88.7	90.7	90.0	90.2	96.5
90.0	74.9	79.8	85.2	88.3	90.2	89.5	89.8	96.1
95.0	73.2	76.5	84.9	87.6	89.7	88.8	89.2	95.6
100.0	73.2	79.0	84.3	87.1	89.0	88.0	88.5	94.8
105.0	72.6	76.6	83.9	86.7	88.8	87.5	88.0	94.4
110.0	72.3	78.1	83.3	86.3	88.2	87.0	87.5	93.9
115.0	72.0	77.6	83.4	85.7	87.6	86.5	87.0	93.4

MODEL THRUST = 19.005 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 15.4	30.8	61.7	123.3	246.6	493.2	971.0	1942.0	3853.2	7706.4	15412.9
5795.6	78.2(77.5)	79.0	64.22	71.88	76.01	60.11	72.34	64.44	53.20	39.52	14.57	-30.38	-105.35
4385.7	84.7(83.9)	84.4	66.17	74.15	79.35	80.13	76.97	68.90	59.17	48.09	28.48	-6.27	-63.73
3549.3	87.7(86.6)	86.4	66.18	74.76	80.97	82.11	79.61	72.65	64.21	54.67	38.23	9.53	-37.54
3000.0	90.1(88.6)	87.6	66.52	74.02	80.82	83.58	81.82	75.78	68.48	59.95	45.59	20.87	-19.38
2615.2	91.4(89.8)	88.0	65.31	73.19	80.01	83.49	83.09	78.64	72.12	64.30	51.39	29.46	-6.01
2333.4	92.0(89.8)	87.7	64.19	71.77	78.79	82.37	83.15	79.39	73.67	66.37	54.53	34.64	2.66
2121.3	92.0(89.3)	86.9	63.21	70.17	76.83	80.90	82.30	79.76	75.40	68.49	57.46	39.10	9.76
1954.1	91.8(88.7)	86.2	62.74	69.17	75.42	79.57	81.48	79.59	76.35	69.75	59.33	42.15	14.84
1831.2	91.9(88.4)	85.9	61.98	69.90	75.13	78.72	80.66	79.18	77.55	71.18	61.24	44.99	19.25
1732.1	91.3(87.4)	85.0	62.04	68.34	74.46	77.99	79.38	77.99	77.28	71.09	61.53	45.99	21.48
1655.1	91.4(87.4)	85.0	62.22	68.51	74.61	77.79	79.31	78.11	77.22	71.17	61.91	46.92	23.37
1596.1	91.1(86.9)	84.5	62.75	68.47	73.92	77.25	78.84	77.58	76.85	70.91	61.87	47.31	24.49
1552.9	90.7(86.7)	84.2	62.32	68.35	73.87	76.93	78.44	77.53	76.38	70.51	61.63	47.39	25.11
1523.1	90.3(86.1)	83.8	62.00	67.87	73.50	76.39	78.11	76.89	75.96	70.13	61.36	47.34	25.42
1505.7	89.9(85.7)	83.3	61.05	67.70	72.78	75.89	77.62	76.46	75.51	69.74	61.03	47.13	25.43
1500.0	89.5(85.2)	82.9	62.13	67.02	72.47	75.52	77.24	75.99	75.11	69.35	60.67	46.81	25.14
1505.7	89.9(84.5)	82.2	60.47	63.76	72.07	74.75	76.71	75.27	74.45	68.68	59.97	46.07	24.38
1523.1	88.0(83.7)	81.5	60.37	66.10	71.19	74.11	75.84	74.35	73.66	67.85	59.09	45.06	23.16
1552.9	87.2(83.0)	80.9	59.58	65.40	70.81	73.60	75.48	73.69	72.92	67.05	58.17	43.93	21.65
1596.3	86.4(82.2)	80.1	59.01	64.43	70.03	72.92	74.65	72.92	72.15	66.21	57.16	42.60	19.78
1655.1	85.4(81.4)	79.4	58.36	63.99	69.83	72.06	73.91	72.06	71.25	65.20	55.94	40.95	17.40

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 233.000
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 536.000
PRIMARY PRESSURE RATIO	= 528.000
AREA RATIO	= 2.500
VELOCITY RATIO	= 1.000
PRIMARY VELOCITY (FT/SEC)	= .843
MASS FLOW RATIO	= 1220.279
PRIMARY MASS FLOW (LB/SEC)	= .882
THRUST (LBS)	= .337
ENVIRONMENTAL TEMPERATURE (R)	= 22.252
ENVIRONMENTAL PRESSURE (IN.HG)	= 524.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.510
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 60.000
INSTRUMENTATION NOISE FLOOR (DB)	= .028
	= 58.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.107A1E+00	130.4
500	9.43696E-03	109.7
1000	5.25562E-02	117.2
2000	1.77572E-01	122.5
4000	2.89673E-01	124.6
8000	2.99492E-01	124.8
16000	1.70120E-01	122.3
31500	1.08960E-01	120.4

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.0
20000	160.0
40000	163.0
80000	166.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	90.2	97.5	100.6	99.7	96.4	89.7	84.7	105.1
20.0	88.8	96.6	101.0	101.0	98.5	91.9	86.5	106.0
25.0	87.4	95.7	101.1	102.1	99.8	93.7	88.3	106.6
30.0	85.5	93.9	99.6	102.0	100.5	95.3	90.4	106.6
35.0	83.5	91.5	98.1	100.9	100.5	96.3	91.9	105.7
40.0	81.5	89.2	95.6	99.0	100.0	97.0	93.3	104.7
45.0	79.8	87.0	93.0	96.8	98.1	96.2	92.9	103.0
50.0	78.6	85.4	91.5	94.9	96.7	95.2	92.9	101.7
55.0	77.3	84.1	90.5	93.9	95.9	94.9	93.2	101.1
60.0	77.2	83.7	89.7	93.1	94.7	93.9	92.9	100.3
65.0	77.2	83.2	89.0	92.2	94.0	93.0	92.2	99.5
70.0	76.4	82.7	88.3	91.3	93.2	92.3	91.8	98.8
75.0	76.4	82.1	87.8	90.9	92.5	91.9	91.2	98.3
80.0	76.1	82.2	87.9	90.5	91.8	91.2	90.8	97.8
85.0	75.7	81.8	86.9	89.8	91.5	90.8	90.0	97.2
90.0	74.8	81.3	86.4	89.5	91.3	90.0	89.5	96.7
95.0	74.6	80.5	85.9	88.8	90.7	89.5	89.0	96.2
100.0	74.1	80.5	85.6	88.5	90.3	89.0	88.5	95.8
105.0	74.6	79.9	85.1	87.8	89.5	88.5	88.0	95.2
110.0	73.4	79.4	84.6	87.3	89.2	88.0	87.8	94.8
115.0	72.8	78.6	84.0	87.2	89.0	87.8	87.1	94.4

MODEL THRUST = 22.252 FULL SCALE THRUST = 20000.000

L.	PNDB.		OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 16.7	33.4	66.7	133.4	266.8	533.7	1050.7	2101.4	4169.5	8338.9	16677.9
5795.6	78.0(	77.5)	79.6	65.03	72.31	75.16	74.13	70.07	61.30	51.19	36.53	9.80	-38.04	-117.07
4385.7	83.1(	82.3)	82.9	66.01	73.86	78.21	78.01	74.94	66.70	57.47	45.64	24.69	-12.24	-72.78
3549.3	86.6(	85.6)	85.3	66.50	74.73	80.16	80.93	78.21	70.83	62.35	52.20	34.67	4.21	-45.35
3000.0	89.0(	87.7)	86.6	66.10	74.44	80.14	82.38	80.51	74.19	66.63	57.59	42.31	16.09	-24.26
2615.2	90.5(	88.8)	87.0	65.26	73.27	79.77	82.49	81.75	76.56	69.86	61.59	47.89	24.65	-12.45
2333.6	91.4(	89.3)	86.9	64.22	71.94	78.30	81.64	82.27	78.44	72.66	64.96	52.41	31.35	-2.26
2121.3	90.9(	88.5)	86.0	63.34	70.52	76.56	80.19	81.26	78.62	73.42	66.15	54.47	35.04	4.23
1958.1	90.8(	88.0)	85.4	62.83	69.69	75.70	79.05	80.57	78.39	74.35	67.41	56.40	38.24	9.56
1831.2	91.1(	88.0)	85.4	62.17	68.93	75.29	78.62	80.42	78.68	75.44	68.75	58.26	41.09	14.07
1732.1	90.9(	87.7)	85.0	62.48	68.99	74.95	76.32	79.74	78.22	75.74	69.20	59.17	42.76	17.04
1655.1	90.7(	87.3)	84.7	62.84	68.95	74.70	77.82	79.38	77.81	75.57	69.24	59.46	43.45	18.94
1596.3	90.5(	86.9)	84.3	62.68	68.71	74.32	77.25	78.93	77.47	75.55	69.34	59.81	44.45	20.51
1552.4	90.3(	86.7)	84.0	62.72	68.36	74.04	77.03	78.51	77.35	75.25	69.12	59.77	44.75	21.38
1523.1	90.1(	86.3)	83.7	62.51	68.63	74.27	76.98	77.92	76.89	75.05	68.99	59.75	44.97	21.99
1505.7	89.9(	85.9)	83.3	62.21	68.32	73.97	76.25	77.75	76.82	74.37	68.34	59.17	44.52	21.77
1500.0	89.0(	85.3)	82.9	61.40	67.01	72.99	75.97	77.66	75.72	73.96	67.92	58.78	44.17	21.50
1504.7	88.9(	84.7)	82.3	61.16	67.07	72.96	75.26	76.96	75.23	73.40	67.37	58.21	43.56	20.81
1523.1	87.8(	84.2)	81.9	60.57	66.57	72.66	74.91	76.49	74.58	72.75	66.69	57.45	42.67	19.69
1552.9	87.0(	83.3)	80.9	60.87	66.16	71.34	73.31	75.64	73.89	72.06	65.96	56.58	41.54	18.19
1594.3	86.3(	82.6)	80.3	59.41	65.18	70.80	73.23	74.92	73.16	71.51	65.30	55.77	40.41	16.47
1654.1	85.3(	81.9)	79.6	58.55	64.14	69.68	72.14	74.03	72.80	71.41	64.98	54.31	39.50	13.79

RUN NUMBER	234.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	9.000
PRIMARY TEMPERATURE (R)	926.000
SECONDARY TEMPERATURE (R)	525.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	2.007
VELOCITY RATIO	.376
PRIMARY VELOCITY (FT/SEC)	1208.842
MASS FLOW RATIO	.541
PRIMARY MASS FLOW (LB/SEC)	.337
THRUST (LBS)	15.403
ENVIRONMENTAL TEMPERATURE (R)	524.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.910
ENVIRONMENTAL HUMIDITY (PER CENT)	60.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	.068
INSTRUMENTATION NOISE FLOOR (DB)	61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.952246+00	132.9
500	4.485296-03	106.5
1000	3.280726-02	115.2
2000	2.094976-01	123.2
4000	5.472256-01	127.4
8000	6.172756-01	127.9
16000	3.341946-01	125.2
31500	2.068796-01	123.2

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	161.0
20000	164.0
40000	167.0
80000	170.1

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	86.3	95.2	101.9	104.7	103.0	98.0	92.7	109.0
20.0	85.6	94.7	102.7	105.7	104.5	99.4	94.1	110.0
25.0	84.1	93.6	102.3	106.1	105.3	99.3	94.7	110.3
30.0	82.5	91.7	100.9	105.3	104.8	99.8	95.3	109.6
35.0	79.8	89.9	98.9	103.8	104.4	100.2	96.1	108.7
40.0	77.8	87.2	96.1	101.4	102.6	100.0	96.4	107.1
45.0	76.1	84.9	93.1	98.6	100.5	98.9	96.2	105.1
50.0	75.5	83.1	91.1	96.4	98.9	97.6	95.5	103.6
55.0	74.6	82.0	89.8	94.9	97.1	96.8	95.4	102.6
60.0	74.3	81.6	88.9	93.6	96.1	95.7	94.9	101.5
65.0	74.3	81.3	88.6	92.8	95.3	94.8	94.7	100.8
70.0	74.0	81.1	87.8	92.1	94.4	94.4	94.2	100.2
75.0	73.6	80.8	87.2	91.3	93.5	93.7	93.6	99.5
80.0	74.0	79.9	86.9	90.7	92.8	93.1	92.9	98.8
85.0	72.8	79.9	86.3	90.0	92.4	92.8	92.1	98.4
90.0	72.0	79.4	85.9	89.5	92.4	92.0	91.7	97.9
95.0	72.0	78.8	85.1	89.0	91.5	91.3	91.0	97.4
100.0	71.6	78.3	84.5	88.4	90.9	91.0	90.5	96.7
105.0	72.0	77.9	84.3	87.8	90.4	90.5	90.0	96.2
110.0	70.6	77.4	83.8	87.3	90.2	90.0	89.5	95.8
115.0	70.0	76.8	83.3	86.9	89.8	89.5	89.0	95.3

MODEL THRUST = 15.403 FULL SCALE THRUST = 20000.000

LV	PNOB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 13.9	27.8	55.5	111.0	222.0	444.0	874.2	1748.3	3468.9	6937.9	13875.8
8795.6	95.8	95.1	84.9	82.68	71.60	78.21	80.83	79.15	72.53	62.87	50.20	27.45	-13.88	-83.63
4385.7	89.9	88.8	88.3	84.40	73.57	81.52	84.40	82.72	76.43	68.03	57.86	39.92	7.92	-45.68
3549.3	92.8	91.4	90.5	84.75	74.26	82.93	86.67	85.46	78.65	71.41	62.61	47.52	-21.05	-22.03
3000.8	94.2	92.8	91.3	84.67	73.89	82.98	87.29	86.57	80.65	74.11	66.21	52.98	30.15	-7.41
2619.2	95.4	93.2	91.8	83.14	72.78	81.74	87.03	87.40	82.43	78.54	69.27	57.36	37.88	3.94
2333.6	95.4	92.9	91.8	82.15	71.57	80.36	85.58	86.64	83.37	78.16	71.35	60.39	41.96	12.88
2121.3	94.9	91.9	89.8	81.28	70.03	78.21	83.47	85.36	83.14	78.96	72.49	62.26	45.23	17.88
1958.1	94.6	91.3	89.8	81.40	69.00	76.91	82.16	84.45	82.65	79.18	72.98	63.38	47.36	21.88
1831.2	94.4	90.9	88.3	81.06	69.06	76.26	80.85	83.30	82.26	79.80	73.81	64.57	49.46	25.37
1732.1	94.3	90.5	88.0	81.22	68.53	75.84	80.45	82.80	81.91	79.89	74.06	65.16	50.70	27.75
1655.1	94.2	90.2	87.7	81.61	68.62	75.86	80.00	82.35	81.41	80.21	74.51	65.87	51.92	29.86
1596.3	94.0	90.0	87.5	81.59	68.77	75.37	79.61	81.84	81.34	80.04	74.43	65.99	52.44	31.05
1552.9	93.7	89.5	87.0	81.47	68.68	75.08	79.10	81.17	80.87	79.74	74.28	65.91	52.64	31.78
1523.1	93.2	89.1	86.5	82.00	67.97	74.89	78.72	80.58	80.53	79.12	73.63	65.44	52.36	31.82
1505.7	92.9	88.8	86.2	80.99	68.07	74.41	78.05	80.32	80.30	79.08	73.22	65.09	52.13	31.79
1500.6	92.3	88.2	85.8	80.19	67.53	74.03	77.64	80.35	79.52	78.21	72.76	64.65	51.73	31.45
1505.7	91.6	87.5	85.0	80.16	66.89	73.23	77.08	79.30	78.07	77.46	72.00	63.87	50.91	30.57
1523.1	91.0	86.9	84.4	79.61	66.35	72.54	76.41	78.74	78.40	76.84	71.35	63.16	50.08	29.84
1552.9	90.2	86.2	83.7	79.09	65.73	72.13	75.63	78.05	77.72	76.18	70.56	62.27	49.08	28.11
1596.3	89.4	85.4	83.0	78.26	65.01	71.37	74.90	77.41	76.96	75.33	69.73	61.29	47.73	26.34
1655.1	88.9	84.9	82.2	77.92	63.91	70.84	74.15	76.66	76.12	74.45	68.78	60.11	46.16	24.10

RUN NUMBER	= 239.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 933.000
SECONDARY TEMPERATURE (R)	= 536.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .715
PRIMARY VELOCITY (FT/SEC)	= 1216.859
MASS FLOW RATIO	= 1.262
PRIMARY MASS FLOW (LB/SEC)	= .338
THRUST (LBS)	= 24.322
ENVIRONMENTAL TEMPERATURE (R)	= 524.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.510
ENVIRONMENTAL HUMIDITY (PER CENT)	= 60.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .065
INSTRUMENTATION NOISE FLOOR (DB)	= 62.505

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.26835E+00	133.6
500	9.00764E-03	109.5
1000	5.42651E-02	117.3
2000	2.41932E-01	123.8
4000	5.96894E-01	127.8
8000	7.12150E-01	128.5
16000	3.95912E-01	126.0
31500	2.58892E-01	124.1

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	159.7
20000	162.7
40000	165.7
80000	168.7

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	89.5	96.4	101.5	103.2	102.4	98.0	92.3	108.2
20.0	88.6	96.6	102.7	105.0	104.0	99.8	96.9	109.9
25.0	87.6	95.7	102.7	106.0	105.9	100.6	98.2	110.7
30.0	86.0	93.9	101.4	106.1	106.0	101.2	98.9	110.8
35.0	86.4	91.8	99.2	104.5	105.0	101.1	97.6	109.5
40.0	81.0	89.9	96.9	102.1	103.9	100.8	97.9	107.9
45.0	80.3	87.3	94.6	99.6	101.6	100.0	97.4	106.3
50.0	78.8	86.1	92.6	97.1	99.5	98.9	96.7	104.8
55.0	77.4	85.0	91.5	95.9	98.1	97.6	96.6	103.5
60.0	77.9	84.5	90.3	94.5	96.8	96.6	96.6	102.8
65.0	76.8	84.2	89.9	93.5	95.9	95.8	95.8	101.8
70.0	76.0	84.2	89.3	93.0	95.9	95.7	96.0	100.9
75.0	76.8	83.6	88.8	92.2	93.8	93.8	94.2	100.0
80.0	76.8	83.4	88.8	91.7	93.5	93.8	93.8	99.4
85.0	76.5	82.9	88.0	91.1	92.9	92.9	92.9	99.0
90.0	75.6	82.5	87.9	90.8	92.6	92.9	92.9	98.6
95.0	75.6	82.2	87.2	89.8	91.8	91.8	91.8	97.9
100.0	75.3	81.3	86.7	89.2	91.3	91.9	91.9	97.3
105.0	75.0	81.1	86.8	88.6	90.8	90.8	90.8	96.9
110.0	74.2	80.4	85.9	88.1	90.9	90.1	90.1	96.6
115.0	73.9	79.3	84.9	87.7	90.3	89.8	89.8	96.8

MODEL THRUST = 24.322 FULL SCALE THRUST = 20000.000

L0	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 17.4	34.9	69.7	139.5	279.0	558.0	1098.5	2197.0	4359.0	8718.1	17436.2
5795.6	83.1(82.5)	81.8	63.92	70.87	75.86	77.29	75.61	69.80	57.99	42.73	14.96	-34.58	-115.94
4389.7	88.0(87.0)	86.8	69.69	73.23	79.48	81.80	80.92	74.89	65.12	52.85	31.19	-7.11	-89.41
3549.3	91.8(90.7)	88.7	66.30	74.39	81.29	84.43	83.86	77.15	69.56	59.03	40.56	9.36	-41.63
3000.8	93.8(92.4)	90.2	64.20	74.02	81.46	86.11	85.58	79.58	72.56	63.21	47.09	20.78	-23.26
2615.2	94.5(92.7)	90.2	61.81	73.15	80.50	85.72	85.85	80.06	74.96	66.43	52.25	28.25	-10.11
2333.6	94.5(92.6)	89.6	64.16	71.78	79.18	84.26	85.29	81.78	76.29	68.36	55.38	33.64	-.91
2121.3	94.2(91.7)	88.8	63.44	70.50	77.71	82.68	84.35	81.94	77.31	69.82	57.76	37.72	6.84
1958.1	93.5(90.7)	87.8	62.78	69.96	76.48	80.80	82.95	81.29	77.61	70.47	59.16	40.38	10.98
1831.2	93.4(90.3)	87.1	61.83	69.45	75.91	80.19	82.21	80.98	78.29	71.42	60.59	42.85	15.13
1732.1	93.3(89.8)	86.7	62.83	69.46	75.21	79.36	81.37	80.52	78.68	72.01	61.61	44.76	18.28
1655.1	93.2(89.5)	86.4	62.17	69.48	75.17	78.76	80.92	80.11	78.63	72.12	62.05	45.76	20.38
1596.3	92.6(88.8)	85.9	62.48	69.80	75.11	78.56	80.25	79.62	77.84	71.46	61.64	45.82	21.24
1552.9	92.3(88.2)	85.3	62.72	69.51	74.62	77.98	79.33	78.72	77.71	71.42	61.79	46.32	22.32
1523.1	91.7(87.7)	84.9	62.89	69.48	74.62	77.65	79.25	78.16	76.76	70.54	61.03	45.86	22.28
1505.7	91.6(87.6)	84.6	62.78	69.07	74.09	77.11	78.71	78.19	76.74	70.56	61.12	46.03	22.67
1500.8	90.8(86.8)	84.0	61.82	68.65	73.65	76.78	78.52	77.31	75.92	69.75	60.34	45.30	22.81
1505.7	90.4(86.4)	83.5	61.79	68.30	73.32	75.86	77.44	77.06	75.63	69.45	60.01	44.92	21.56
1523.1	89.5(85.9)	82.7	61.36	67.36	72.78	75.17	77.02	76.16	74.71	68.49	58.98	43.75	20.16
1552.9	89.0(85.0)	82.2	60.85	67.01	71.46	74.38	76.37	75.88	74.31	68.03	58.39	42.92	18.92
1596.3	88.0(84.2)	81.4	59.89	66.02	70.90	73.83	76.19	74.79	73.32	66.96	57.12	41.38	16.77
1655.1	87.1(83.4)	80.7	59.19	64.65	70.20	72.87	75.28	74.18	72.68	66.18	56.03	39.76	14.36

RUN NUMBER	=	218.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	=	.0000
PRIMARY TEMPERATURE (R)	=	922.000
SECONDARY TEMPERATURE (R)	=	520.000
PRIMARY PRESSURE RATIO	=	2.500
AREA RATIO	=	2.007
VELOCITY RATIO	=	.451
PRIMARY VELOCITY (FT/SEC)	=	1204.237
MASS FLOW RATIO	=	1.543
PRIMARY MASS FLOW (LM/SEC)	=	.337
THRUST (LBS)	=	29.134
ENVIRONMENTAL TEMPERATURE (R)	=	515.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.570
ENVIRONMENTAL HUMIDITY (PER CENT)	=	44.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	=	.050
INSTRUMENTATION NOISE FLOOR (DB)	=	83.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.12827E+00	135.0
500	1.69243E-02	112.3
1000	8.84847E-02	119.5
2000	3.52611E-01	125.5
4000	7.68601E-01	128.9
8000	9.77147E-01	129.9
16000	5.76470E-01	127.6
31500	3.47352E-01	125.4

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	106.3
20000	103.3
40000	100.3
80000	109.3

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVE@ ALL
15.0	91.8	98.3	102.5	103.2	102.6	99.1	93.5	108.8
20.0	91.3	98.0	103.7	105.6	105.9	101.0	95.9	110.7
25.0	89.3	97.3	103.6	104.7	106.5	101.7	97.8	111.5
30.0	87.9	96.8	102.9	104.9	107.2	102.7	98.4	111.8
35.0	86.1	93.9	101.0	105.6	106.6	102.8	98.8	110.9
40.0	84.4	92.0	98.6	103.3	104.9	102.2	99.3	109.4
45.0	82.6	90.0	96.5	100.8	102.7	101.2	98.9	107.6
50.0	81.2	88.1	94.6	98.9	101.0	100.3	98.1	106.1
55.0	79.8	87.0	93.5	97.2	99.6	98.9	97.7	104.9
60.0	79.8	87.2	92.8	96.2	98.3	97.7	96.8	103.8
65.0	79.8	87.0	92.5	95.6	97.5	97.2	96.6	103.3
70.0	79.8	86.3	91.5	94.6	96.5	96.3	95.9	102.4
75.0	79.3	86.3	91.6	94.1	95.8	96.0	95.3	101.9
80.0	79.3	86.0	91.0	93.7	95.2	95.5	94.5	101.4
85.0	78.6	85.3	90.6	93.2	94.9	95.0	94.0	100.9
90.0	78.3	85.0	90.0	92.7	94.7	94.5	93.5	100.5
95.0	78.9	84.3	89.7	92.1	94.1	94.0	93.0	100.0
100.0	77.5	83.6	89.2	91.7	93.6	93.5	92.5	99.6
105.0	76.9	83.6	89.0	91.0	93.3	93.0	92.0	99.1
110.0	76.3	83.0	88.5	90.6	93.4	92.5	91.5	98.7
115.0	75.9	81.9	87.5	90.0	92.6	92.0	91.0	98.1

MODEL THRUST = 29.134 FULL SCALE THRUST = 20000.000

L=	PNDH=	OASPL	19.1	OCTAVE 39.2	BAND 76.3	SOUND 152.7	PRESSURE 305.3	LEVELS 610.7	1202.2	2404.5	4770.8	9541.6	19083.2
5795.6	82.9(82.4)	81.5	65.50	71.88	76.03	76.37	74.90	69.82	57.22	40.69	10.68	-42.42	-129.64
4385.7	88.6(87.8)	86.0	67.40	74.08	79.46	81.29	80.68	74.09	64.53	51.29	27.85	-13.06	-79.04
3549.3	92.0(90.9)	88.7	67.19	75.73	81.42	84.31	82.54	77.21	69.83	58.34	38.80	5.13	-68.85
3000.0	94.5(93.2)	90.5	67.27	75.41	82.18	86.01	85.61	80.09	72.83	62.62	45.64	10.71	-29.37
2615.2	95.4(93.8)	90.8	66.72	74.60	81.62	86.49	86.55	81.81	74.86	65.76	50.57	25.96	-15.54
2333.6	95.6(93.6)	90.2	65.73	73.55	80.15	85.73	85.95	82.16	76.91	68.68	54.58	31.41	-5.10
2121.3	94.8(92.5)	89.1	65.02	72.37	78.87	82.98	84.63	82.15	77.57	69.61	56.73	35.39	1.93
1958.1	93.3(91.7)	88.4	64.32	71.20	77.88	81.71	83.63	82.08	77.80	70.23	58.10	38.17	7.05
1831.2	93.9(91.8)	87.7	63.47	70.43	77.08	80.71	82.79	81.37	78.22	70.95	59.41	40.59	11.24
1732.1	93.4(90.4)	87.2	63.95	71.31	76.46	80.23	82.05	80.73	77.61	70.77	59.49	41.72	13.45
1655.1	93.4(90.3)	87.1	64.35	71.61	76.48	79.96	81.64	80.66	78.28	71.42	60.70	43.60	16.63
1596.3	93.3(89.8)	86.5	64.66	71.18	76.31	79.38	80.95	80.11	78.69	71.35	60.91	44.12	18.19
1552.9	93.1(89.7)	86.3	64.65	71.42	76.49	79.11	80.51	80.09	77.73	71.10	60.86	44.44	19.14
1523.1	92.7(89.3)	86.0	64.41	71.26	76.23	78.49	80.13	79.78	77.14	70.60	60.50	44.36	19.46
1505.7	92.3(88.9)	85.6	63.98	70.82	75.72	78.02	79.95	79.36	76.79	70.27	60.25	44.24	19.62
1500.0	91.9(88.5)	85.3	63.75	70.60	75.36	78.02	79.73	79.09	76.91	69.88	59.91	43.85	19.31
1505.7	91.6(88.0)	84.7	64.23	69.69	76.09	77.36	79.12	78.38	76.74	69.27	59.25	43.24	18.91
1523.1	90.7(87.3)	84.1	62.78	68.98	74.65	76.48	78.64	77.74	75.15	68.58	58.69	42.33	17.65
1552.9	90.0(86.6)	83.5	62.02	68.19	74.10	75.37	78.06	77.06	74.64	67.96	57.62	41.20	15.98
1594.3	89.2(86.0)	82.9	61.14	67.02	73.29	74.37	77.06	76.27	73.80	66.88	56.44	39.64	13.72
1655.1	88.1(85.9)	81.9	60.49	66.06	72.05	74.18	76.74	75.39	72.49	65.82	55.11	37.88	11.03

RUN NUMBER	= 237.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 514.000
SECONDARY TEMPERATURE (R)	= 522.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 4.856
VELOCITY RATIO	= .378
PRIMARY VELOCITY (FT/SEC)	= 1149.614
MASS FLOW RATIO	= 1.598
PRIMARY MASS FLOW (LB/SEC)	= .348
THRUST (LBS)	= 20.814
ENVIRONMENTAL TEMPERATURE (R)	= 515.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.490
ENVIRONMENTAL HUMIDITY (PER CENT)	= 73.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .025
INSTRUMENTATION NOISE FLOOR (DB)	= 57.607

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	9.43013E-01	129.7
500	9.08919E-03	109.6
1000	8.61029E-02	119.4
2000	1.42723E-01	121.5
4000	2.10309E-01	123.4
8000	2.02929E-01	123.1
16000	1.27933E-01	121.1
31500	1.56126E-01	121.9

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	156.6
20000	159.6
40000	162.6
80000	165.6

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	90.2	97.4	100.8	99.9	93.9	92.8	102.3	106.9
20.0	88.5	96.3	101.0	100.8	96.5	92.1	86.6	105.6
25.0	87.1	94.4	100.2	101.5	98.1	92.4	87.2	105.6
30.0	85.1	92.5	98.7	101.0	99.0	93.7	88.4	105.2
35.0	83.2	89.9	96.2	99.4	99.1	95.0	90.3	104.2
40.0	80.7	86.1	93.7	97.2	98.0	95.3	91.7	102.9
45.0	79.1	86.3	91.5	94.6	96.3	94.6	92.2	101.2
50.0	78.0	84.5	89.9	93.2	94.9	94.1	93.6	100.4
55.0	77.3	83.9	88.9	92.1	93.7	93.0	94.0	99.8
60.0	76.8	83.5	88.2	90.9	92.6	92.3	93.7	99.0
65.0	77.6	82.9	87.6	90.2	91.8	91.7	93.5	98.5
70.0	76.8	82.6	87.6	89.3	91.0	91.1	93.3	98.0
75.0	76.3	99.0	86.4	89.2	90.7	90.5	92.8	101.3
80.0	76.0	81.8	85.9	88.5	90.3	90.0	92.0	97.0
85.0	75.8	81.3	85.7	88.1	90.4	89.5	91.5	96.6
90.0	75.5	80.6	85.1	87.3	90.2	89.0	91.0	96.1
95.0	75.1	79.9	84.3	86.9	89.7	88.5	90.5	95.6
100.0	74.7	79.3	84.0	86.3	89.2	88.0	90.0	95.1
105.0	73.6	79.2	83.4	85.6	88.5	87.8	89.8	94.7
110.0	73.2	78.7	82.9	85.4	87.9	87.2	89.5	94.3
115.0	73.4	78.2	82.5	84.9	87.9	87.0	89.0	94.0

MODEL THRUST = 20.814 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	16.1	OCTAVE 32.3	BAND 64.5	SOUND 129.1	PRESSURE 258.1	LEVELS 516.2	1016.3	2032.6	4032.9	8065.7	16131.5
5795.6	81.5	79.9	80.3	65.31	72.50	75.79	74.64	67.93	64.89	69.47	55.23	29.27	-17.34
4384.7	82.5	81.7	82.8	66.05	73.40	78.50	78.10	73.21	67.32	58.16	46.65	26.28	-9.73
3549.3	85.5	84.4	84.7	66.46	73.74	79.47	80.71	76.80	69.95	61.72	51.44	34.78	-5.07
3000.0	87.7	86.4	85.7	65.91	73.12	79.68	81.69	79.25	72.97	65.13	56.32	41.43	15.86
2615.2	89.2	87.5	85.8	65.28	71.96	78.21	81.29	80.70	75.70	68.79	60.72	47.36	24.44
2333.6	89.8	87.6	85.4	63.74	71.12	76.72	80.12	80.57	77.10	71.51	63.99	51.74	31.18
2121.9	89.6	87.0	84.6	62.91	70.12	75.24	78.33	79.77	77.30	73.14	66.03	54.63	35.66
1958.1	90.2	88.9	84.4	62.56	69.01	74.41	77.62	79.07	77.60	74.52	68.72	57.96	40.23
1831.2	90.6	88.7	84.3	62.43	68.92	73.97	77.15	78.54	77.15	76.61	70.86	59.81	43.83
1732.1	90.8	88.5	84.0	62.45	69.12	73.82	76.39	77.85	76.96	76.97	70.61	60.75	44.71
1655.1	91.1	88.6	83.9	63.00	68.87	73.69	76.10	77.48	76.85	77.28	71.07	61.51	45.86
1596.3	91.1	88.5	83.7	63.16	68.93	73.29	75.56	76.68	75.61	77.40	71.30	61.98	46.97
1552.9	91.9	87.5	87.6	62.91	85.68	72.93	74.69	74.93	76.25	77.24	71.23	62.09	47.39
1523.1	91.6	85.8	83.1	62.74	69.53	72.44	75.11	76.80	75.91	76.66	70.70	61.67	47.21
1505.7	90.3	85.5	82.9	62.66	68.14	72.55	74.93	76.94	75.51	74.26	70.34	61.37	47.04
1500.0	89.8	85.0	82.5	62.33	67.45	71.45	74.05	76.81	75.07	73.79	69.88	60.94	46.65
1505.7	87.2	84.5	81.9	61.92	66.76	71.18	73.69	74.25	74.52	73.27	69.35	60.39	46.04
1523.1	88.8	83.8	81.3	61.43	66.11	70.74	72.65	73.63	73.93	72.64	68.68	59.65	45.19
1552.9	84.4	83.3	81.7	60.19	65.73	69.49	72.24	74.76	73.64	74.25	69.24	59.09	44.40
1596.3	87.2	82.6	80.0	59.68	64.47	69.19	71.69	73.97	72.65	73.65	67.96	58.23	43.22
1655.1	86.3	81.8	79.3	59.00	64.24	68.65	71.01	73.65	72.10	72.75	66.54	56.99	41.53

RUN NUMBER	= 23H.009
AXIAL POSITION OF PRIMARY WRT. SECONDARY (FT)	= 2.H00
PRIMARY TEMPERATURE (R)	= 507.000
SECONDARY TEMPERATURE (R)	= 523.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 4.H56
VELOCITY RATIO	= .72H
PRIMARY VELOCITY (FT/SEC)	= 1186.A2H
MASS FLOW RATIO	= 3.233
PRIMARY MASS FLOW (LB/SEC)	= .340
THRUST (LHS)	= 42.095
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.440
ENVIRONMENTAL HUMIDITY (PER CENT)	= 64.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .032
INSTRUMENTATION NOISE FLOOR (DB)	= 59.573

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.25002E+00	131.0
500	3.61030E-02	115.6
1000	1.37025E-01	121.4
2000	3.19954E-01	125.0
4000	3.14363E-01	125.0
8000	2.32107E-01	123.7
16000	1.26281E-01	121.1
31500	8.16860E-02	119.1

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	154.7
20000	157.7
40000	160.7
80000	163.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	96.4	101.9	102.6	97.3	93.6	91.0	87.1	106.7
20.0	95.0	100.7	103.2	98.9	92.4	90.2	86.9	106.7
25.0	93.4	99.7	102.7	100.4	94.7	89.9	86.4	106.6
30.0	91.1	97.5	101.7	101.0	95.6	91.3	87.6	106.1
35.0	89.0	95.1	100.2	100.4	97.7	92.7	88.8	105.3
40.0	86.6	93.1	97.9	99.1	97.9	93.9	89.7	104.2
45.0	85.2	91.3	96.6	97.6	97.3	94.2	91.0	103.3
50.0	83.8	90.2	94.7	96.4	96.3	93.8	91.2	102.2
55.0	83.5	89.3	94.1	95.6	95.5	93.1	91.4	101.5
60.0	83.4	88.6	93.3	94.9	94.9	92.7	91.5	101.0
65.0	83.1	88.6	92.5	94.4	94.2	92.4	91.0	100.4
70.0	82.8	87.8	92.2	93.7	93.5	91.9	90.5	99.9
75.0	82.1	87.2	91.8	93.2	93.1	91.5	90.0	99.4
80.0	81.8	86.6	91.4	92.6	92.8	91.2	89.6	98.9
85.0	81.1	86.0	90.7	92.2	92.4	90.5	89.2	98.5
90.0	80.4	85.6	90.1	91.8	92.1	90.2	89.0	98.2
95.0	80.1	84.9	89.7	91.6	91.7	90.0	88.9	97.8
100.0	79.8	84.8	89.5	91.3	91.6	89.9	88.5	97.6
105.0	79.0	84.0	89.6	91.0	91.4	89.5	88.2	97.3
110.0	78.3	83.5	89.1	90.7	91.1	89.3	88.0	97.0
115.0	78.1	82.7	88.7	90.6	91.1	89.0	87.9	96.9

MODEL THRUST = 42.095 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	22.4	OCTAVE 45.9	BAND 91.8	SOUND 183.5	PRESSURE 367.0	LEVELS 734.0	1445.1	2890.3	5734.7	11469.4	22938.7
5795.6	75.6(75.2)	78.4	68.47	73.99	74.48	68.74	60.76	57.94	44.59	27.11	-7.95	-68.85	-145.43
4385.7	79.7(79.1)	80.9	69.68	75.16	77.00	72.92	65.68	60.80	51.86	36.39	9.13	-37.69	-111.50
3549.3	82.9(82.3)	82.6	69.71	76.44	78.91	74.49	69.91	63.06	55.08	41.99	19.35	-19.11	-79.41
3000.0	85.1(84.3)	83.5	68.89	75.28	79.34	74.42	73.40	66.50	58.87	47.33	27.74	-5.23	-50.67
2615.2	86.5(85.4)	83.8	67.93	74.08	79.05	74.11	74.22	69.43	62.15	51.71	34.24	5.12	-40.11
2333.4	87.5(86.3)	83.6	66.56	73.00	77.91	73.50	73.15	71.80	64.62	54.98	39.07	12.76	-27.42
2121.3	88.2(86.6)	83.5	66.00	72.08	77.30	74.19	73.4	73.12	67.24	58.20	43.47	19.27	-17.98
1950.1	88.3(86.5)	83.0	65.31	71.44	76.17	73.66	73.15	73.54	69.48	59.91	46.68	23.51	-11.10
1811.2	88.5(86.5)	83.0	65.53	71.31	76.07	73.56	73.02	73.61	70.46	61.25	48.12	26.83	-5.74
1732.1	88.7(86.5)	82.9	65.92	71.17	75.85	73.33	72.88	73.74	70.34	62.42	49.84	29.53	-1.43
1655.1	88.6(86.3)	82.7	66.03	71.51	75.94	73.32	72.66	73.68	70.34	62.63	50.47	30.94	1.22
1596.3	88.4(86.1)	82.5	66.05	71.03	75.60	73.01	72.41	73.72	70.31	62.77	50.94	31.99	3.22
1552.0	88.3(85.9)	82.3	65.56	70.86	75.23	72.80	72.12	73.44	70.15	62.73	51.14	32.62	4.55
1523.1	88.6(85.6)	82.0	65.51	70.30	75.01	72.57	71.95	73.30	69.85	62.52	51.09	32.88	5.29
1505.7	87.7(85.3)	81.7	64.91	69.76	74.63	72.28	71.64	72.97	69.67	62.39	51.06	33.02	5.71
1500.0	87.5(85.0)	81.4	64.19	69.43	74.01	71.68	71.08	72.71	69.56	62.29	50.99	33.01	5.79
1505.7	87.1(84.7)	81.0	63.49	68.64	73.46	71.17	70.64	72.43	69.43	62.15	50.92	33.11	5.66
1523.1	86.7(84.3)	80.6	63.51	68.41	73.15	70.82	70.45	72.25	69.27	61.94	50.71	31.89	4.33
1552.0	86.3(83.9)	80.2	62.46	67.44	72.34	70.05	69.75	71.61	68.37	60.95	49.36	30.85	2.78
1596.3	85.7(83.3)	79.6	61.58	66.73	71.70	69.50	69.21	71.14	67.76	60.22	48.39	29.45	.67
1655.1	85.2(82.9)	79.1	61.09	65.90	71.30	69.21	68.92	71.50	67.23	59.52	47.17	27.83	-1.89

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 240.000
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 530.000
AREA RATIO	= 2.500
VELOCITY RATIO	= 9.788
PRIMARY VELOCITY (FT/SEC)	= .378
MASS FLOW RATIO	= 1207.692
PRIMARY MASS FLOW (LB/SEC)	= 2.441
THRUST (LBS)	= .398
ENVIRONMENTAL TEMPERATURE (R)	= 28.738
ENVIRONMENTAL PRESSURE (IN.HG)	= 525.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.450
CALIBRATION FACTOR (MV TO DYNES/SQ CM)	= 63.500
INSTRUMENTATION NOISE FLOOR (DB)	= .040
	= 61.577

JUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.90455E+00	132.8
500	6.28113E-03	108.0
1000	3.29307E-02	115.2
2000	1.44140E-01	121.6
4000	3.95419E-01	126.0
8000	5.81236E-01	127.6
16000	4.59226E-01	126.6
31500	2.86340E-01	124.6

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.2
20000	161.2
40000	164.2
80000	167.2

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	SOC	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	87.7	95.0	99.5	100.3	96.2	95.2	91.2	105.4
20.0	85.7	94.0	100.6	103.2	104.0	98.7	95.2	108.5
25.0	84.9	93.3	100.2	104.8	103.9	104.7	97.8	110.1
30.0	83.1	91.6	98.7	104.4	105.6	102.8	94.9	110.0
35.0	81.8	89.7	96.9	102.6	104.8	102.7	99.9	109.2
40.0	80.5	87.2	94.8	100.2	103.4	102.3	99.0	107.8
45.0	78.7	85.6	92.3	97.5	100.6	100.0	97.9	105.5
50.0	77.8	84.0	90.6	95.4	98.6	98.6	97.6	104.0
55.0	77.1	83.3	89.5	93.7	96.8	97.1	97.0	102.7
60.0	76.9	82.9	88.7	93.0	95.9	96.2	96.3	101.8
65.0	76.9	82.6	88.2	92.4	94.8	94.9	95.1	100.8
70.0	75.8	81.8	87.6	91.3	93.9	94.5	93.5	100.1
75.0	75.8	81.5	87.0	90.6	92.8	93.3	93.5	99.1
80.0	75.2	81.0	86.3	89.7	92.1	92.5	92.5	98.3
85.0	74.6	80.6	85.7	89.2	91.7	92.0	92.0	97.8
90.0	74.3	80.3	85.6	88.8	91.0	91.5	91.5	97.3
95.0	74.3	79.8	84.8	88.3	90.5	91.0	91.0	96.7
100.0	73.6	79.2	84.5	87.5	90.2	90.5	90.5	96.3
105.0	72.4	78.5	83.3	86.7	90.1	90.0	90.0	95.8
110.0	72.0	78.3	83.2	86.5	89.6	89.5	89.5	95.3
115.0	71.6	76.9	83.1	85.7	88.7	89.0	89.0	94.7

MODEL THRUST = 28.738 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE 19.0	BAND 37.9	SOUND 75.8	PRESSURE 151.4	LEVELS 303.2	606.5	1194.0	2388.1	4730.3	9476.5	19953.1
5795.6	78.9(	78.3)	78.2	61.37	68.45	73.13	73.53	70.55	65.03	55.15	38.72	8.88	-43.93	-129.79
4386.7	86.7(	85.8)	83.7	61.87	70.07	76.64	79.02	79.10	71.89	63.87	50.71	27.40	-13.30	-79.00
3549.3	90.6(	89.4)	87.0	62.87	71.27	78.13	82.48	81.04	80.31	69.82	58.59	39.15	5.65	-48.10
3000.0	93.0(	91.5)	88.5	62.58	70.76	78.07	83.58	84.28	80.22	73.29	63.34	46.45	17.66	-28.23
2615.7	94.1(	92.1)	88.8	62.48	70.24	77.44	83.04	84.84	81.58	76.13	67.07	51.94	24.48	-13.91
2333.6	94.0(	91.9)	89.5	62.11	68.56	76.34	81.66	84.48	82.31	76.67	68.26	54.45	31.39	-4.97
2121.3	92.9(	90.3)	86.9	61.12	68.02	74.66	79.76	82.53	80.98	76.78	68.86	56.04	34.81	1.68
1958.1	92.4(	89.5)	86.1	60.97	67.14	73.71	78.43	81.23	80.41	77.45	69.91	57.84	38.01	7.02
1831.2	92.1(	88.8)	85.6	60.85	67.00	73.14	77.32	80.05	79.60	77.65	70.41	58.93	40.19	11.01
1732.1	92.0(	89.5)	85.1	61.09	67.09	72.99	77.10	79.62	79.21	77.54	70.52	59.50	41.61	13.85
1655.1	91.6(	87.9)	84.5	61.49	67.22	72.92	76.92	78.98	78.63	76.91	70.88	59.91	42.19	15.53
1596.3	91.4(	87.6)	84.2	60.75	66.96	72.67	76.15	78.47	78.33	76.75	70.85	59.65	42.93	17.11
1552.9	90.7(	86.8)	83.4	60.99	66.62	72.09	75.88	77.60	77.62	76.02	69.62	59.22	42.88	17.88
1523.1	90.1(	86.1)	82.8	60.58	66.31	71.58	74.88	77.10	76.73	75.26	68.73	58.67	42.58	17.91
1505.7	89.7(	85.7)	82.4	60.05	66.07	71.06	74.52	76.76	76.60	74.89	68.40	58.43	42.48	17.96
1500.0	89.2(	85.2)	82.0	59.76	65.74	70.94	74.14	76.15	75.93	74.41	67.93	57.98	42.09	17.65
1505.7	88.7(	84.7)	81.4	59.73	65.17	70.66	73.88	75.85	75.63	73.88	67.39	57.42	41.48	16.95
1523.1	88.0(	84.1)	80.9	58.93	64.63	69.82	72.72	75.14	74.92	73.25	66.72	56.87	40.57	15.80
1552.9	87.2(	83.3)	80.2	57.60	63.63	68.67	71.74	74.53	74.10	72.48	65.89	55.70	39.35	14.15
1594.3	86.4(	82.6)	79.5	56.44	62.71	67.63	71.24	74.12	73.36	71.71	65.01	54.61	37.89	12.07
1659.1	85.9(	81.8)	79.0	56.18	61.97	67.13	70.97	73.98	72.98	71.79	63.95	53.29	36.08	9.60

RUN NUMBER	= 241.000
AXIAL POSITION OF PRIMARY RET. SECONDARY (INCH)	= 4.800
PRIMARY TEMPERATURE (R)	= 525.000
SECONDARY TEMPERATURE (R)	= 537.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 9.748
VELOCITY RATIO	= .725
PRIMARY VELOCITY (FT/SEC)	= 1207.642
MASS FLOW RATIO	= 5.307
PRIMARY MASS FLOW (LB/SEC)	= .397
THRUST (LBS)	= 72.142
ENVIRONMENTAL TEMPERATURE (R)	= 525.900
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.450
ENVIRONMENTAL HUMIDITY (PER CENT)	= 66.000
CALIBRATION FACTOR (MV TO DYNES/SQ CM)	= .056
INSTRUMENTATION NOISE FLOOR (DB)	= 64.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.38716E+00	136.4
500	6.65580E-02	118.2
1000	2.63694E-01	124.2
2000	6.80227E-01	128.3
4000	9.59923E-01	129.8
8000	1.11251E+00	130.5
16000	7.69136E-01	128.9
31500	5.35117E-01	127.3

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.8
20000	160.9
40000	163.9
80000	166.9

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	97.9	102.8	103.5	101.7	103.0	98.6	92.3	109.0
20.0	96.9	102.7	104.9	103.7	102.4	99.4	95.4	110.3
25.0	95.5	101.7	105.7	105.4	104.2	101.1	97.1	111.3
30.0	94.0	100.5	105.0	106.6	105.8	102.6	98.5	111.9
35.0	92.3	99.1	104.1	106.6	107.6	104.5	100.3	112.5
40.0	90.1	96.9	101.7	104.6	106.4	104.1	100.4	111.1
45.0	89.0	95.6	100.3	102.8	104.5	103.1	100.3	109.7
50.0	88.0	93.9	99.4	101.4	103.2	101.9	100.1	108.6
55.0	86.6	93.0	98.2	100.3	101.6	100.5	99.8	107.4
60.0	86.7	92.5	97.2	99.2	100.3	99.5	99.4	106.5
65.0	86.0	92.0	96.7	98.5	99.4	98.6	98.8	105.7
70.0	85.8	91.4	95.8	97.8	98.4	98.0	98.3	104.9
75.0	85.7	90.6	95.4	97.3	97.7	97.5	97.5	104.4
80.0	85.1	90.1	94.6	96.6	96.9	96.9	96.9	103.7
85.0	84.4	89.9	94.3	95.9	96.3	96.0	96.0	103.0
90.0	84.4	89.3	93.9	95.4	95.7	95.8	95.8	102.6
95.0	83.7	89.0	93.7	94.8	95.4	95.5	95.5	102.3
100.0	83.0	88.7	93.6	94.5	95.0	95.4	95.4	102.1
105.0	82.5	88.0	93.1	94.1	94.9	95.2	95.2	101.8
110.0	81.7	87.4	92.7	93.8	94.9	95.1	95.1	101.6
115.0	80.6	86.2	92.3	93.5	95.1	95.0	95.0	101.5

MODEL THRUST = 72.142 FULL SCALE THRUST = 20000.000

L.	PNDB.		OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 30.0	60.1	120.1	240.2	480.5	960.9	1891.9	3783.7	7507.4	15014.8	30029.6
8795.4	78.1	78.0)	77.8	67.56	72.44	72.90	70.49	66.97	58.99	44.46	19.73	-23.96	-97.61	-210.16
4385.7	83.6	83.2)	81.5	69.03	74.81	76.78	75.15	72.49	66.01	54.23	34.79	1.00	-55.46	-141.37
3549.3	87.5	87.0)	84.3	69.43	75.68	79.53	78.84	76.48	70.62	60.37	44.07	10.15	-30.12	-100.21
3000.0	90.5	89.8)	86.3	69.40	75.92	80.27	81.59	79.81	74.23	64.87	50.62	26.56	-13.01	-72.72
2615.2	93.3	92.4)	87.9	68.93	75.71	80.58	82.83	82.95	77.85	68.99	56.19	34.83	-.85	-52.49
2333.6	93.5	92.4)	87.4	67.69	74.69	79.24	81.88	82.88	78.76	70.99	59.24	39.86	8.41	-38.70
2121.3	93.2	91.9)	86.8	67.46	74.04	78.60	80.89	81.95	78.83	72.30	61.35	43.46	14.60	-28.50
1958.1	93.1	91.5)	86.4	67.14	73.03	76.41	80.27	81.37	78.61	73.33	62.99	46.25	19.38	-20.64
1831.2	92.9	91.3)	85.8	66.35	72.74	77.79	79.71	80.50	77.92	74.01	64.15	48.29	22.97	-14.65
1732.1	93.0	91.2)	85.3	66.95	72.69	77.37	79.10	79.65	77.52	74.41	64.92	49.76	25.64	-10.10
1655.1	92.9	91.0)	85.0	66.64	72.37	77.27	78.81	79.26	77.13	74.40	65.20	50.58	27.40	-6.88
1596.3	92.5	90.7)	84.6	66.71	72.39	76.60	78.42	78.56	76.89	74.10	65.12	50.91	28.45	-4.72
1552.9	92.4	90.4)	84.3	66.82	71.[illegible]	76.46	78.19	78.16	76.69	73.94	65.12	51.22	29.29	-3.07
1523.1	92.0	90.0)	83.8	66.46	71.41	75.85	77.78	77.66	76.32	73.63	64.92	51.23	29.66	-2.13
1505.7	91.3	89.3)	83.3	65.86	71.35	75.42	77.68	77.02	75.51	72.86	64.21	50.64	29.29	-2.18
1500.0	91.1	89.1)	82.9	65.78	70.30	74.42	76.42	76.42	75.38	72.71	64.09	50.55	29.27	-2.09
1505.7	90.7	88.7)	82.5	65.89	70.38	75.03	76.41	74.13	75.00	72.39	63.74	50.17	28.82	-2.45
1523.1	90.3	88.4)	82.2	66.32	70.08	74.51	75.55	75.04	74.87	72.10	63.39	49.69	28.12	-3.07
1552.9	89.8	87.9)	81.7	63.81	69.14	74.20	75.06	75.30	74.37	71.62	62.80	48.90	26.97	-5.39
1596.3	89.3	87.4)	81.2	62.60	68.25	73.57	74.42	75.04	74.02	71.18	62.20	47.99	25.53	-7.64
1655.1	88.7	86.8)	80.6	61.21	66.75	72.83	73.87	74.91	73.81	70.67	61.41	46.79	23.62	-10.07

RUN NUMBER	= 245.000
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 523.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .395
PRIMARY VELOCITY (FT/SEC)	= 1377.472
MASS FLOW RATIO	= .269
PRIMARY MASS FLOW (LB/SEC)	= .422
THRUST (LBS)	= 19.763
ENVIRONMENTAL TEMPERATURE (R)	= 16.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.500
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 46.500

TIC POWER AND SOUND POWER LEVEL FOR MODEL JET

Approximate Overall Power Level (dB)	OVERALL SOUND POWER LEVEL, SCALED FOR THRUST	
139	THRUST	Approximate Power Level (dB)
	10000	164
	20000	167
	40000	170
	80000	173

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	91.8	101.0	107.5	109.9	109.0	101.9	93.6	114.2
20.0	90.7	100.4	108.1	110.5	109.1	102.3	94.8	114.6
25.0	89.3	99.3	107.6	110.7	109.1	102.4	95.8	114.6
30.0	87.9	97.4	106.5	110.2	108.7	102.6	97.0	114.0
35.0	86.1	95.0	104.3	108.8	109.0	102.8	97.5	112.9
40.0	83.3	92.9	101.4	106.3	106.9	103.2	98.4	111.3
45.0	81.4	90.1	98.4	103.2	105.0	102.5	98.4	109.3
50.0	79.6	88.3	96.1	101.1	103.3	101.6	98.2	107.8
55.0	79.3	87.1	94.4	99.0	101.3	100.2	98.2	106.2
60.0	78.2	86.6	93.9	97.8	100.4	99.5	97.4	105.4
65.0	78.6	86.5	92.8	96.8	99.4	98.7	97.3	104.6
70.0	78.6	86.0	92.5	96.4	98.5	98.1	97.1	104.0
75.0	77.4	85.3	91.7	95.5	98.0	97.6	96.5	103.4
80.0	77.4	84.9	91.5	95.1	97.5	97.0	95.9	102.9
85.0	77.0	84.6	90.3	94.2	97.0	96.5	95.1	102.2
90.0	77.0	83.8	90.0	93.9	96.6	96.0	94.9	101.9
95.0	76.6	83.3	89.3	93.6	96.6	95.9	94.2	101.6
100.0	76.1	83.1	88.9	93.0	95.9	95.6	93.9	101.1
105.0	75.6	82.4	88.5	92.3	95.7	95.3	93.5	100.8
110.0	75.1	81.9	87.6	92.0	95.5	95.0	93.0	100.4
115.0	73.9	81.0	87.5	91.6	95.5	94.8	92.5	100.2

MODEL THRUST = 19.763 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	15.7	OCTAVE 31.4	BAND 62.9	SOUND 125.7	PRESSURE 251.5	LEVELS 503.0	990.2	1980.4	3929.4	7859.8	15717.6
15.6	90.8(89.5)	89.0	67.17	76.37	82.73	84.90	83.32	74.31	61.25	47.33	21.96	-23.71	-99.67
15.7	93.4(92.6)	91.9	68.50	78.20	85.81	88.03	86.12	77.79	66.75	55.49	35.95	.27	-57.94
19.3	95.6(94.6)	93.8	68.88	78.91	87.17	90.12	88.05	80.16	70.67	60.99	44.28	15.16	-32.53
20.0	97.2(95.9)	94.7	68.97	78.65	87.68	91.09	89.24	82.13	74.11	65.46	50.88	25.80	-14.97
23.2	98.0(96.6)	94.7	68.19	77.22	86.52	90.88	89.01	83.71	76.31	68.39	55.29	33.04	-2.89
23.6	98.3(96.3)	94.1	66.51	76.18	84.53	89.41	88.71	85.25	78.53	71.13	59.12	39.44	6.56
24.3	97.8(95.4)	92.8	65.45	74.16	82.44	87.13	86.66	85.46	79.64	72.64	61.48	42.83	13.13
28.1	97.4(94.6)	92.0	64.40	73.04	80.89	85.79	87.72	85.38	80.36	73.67	63.11	45.69	18.04
31.2	96.8(93.7)	91.0	64.68	72.41	79.77	84.10	86.33	84.61	81.11	74.66	64.50	48.11	22.06
32.1	96.7(93.5)	90.7	64.67	72.45	79.75	83.59	85.96	84.44	80.94	74.73	65.04	49.29	24.48
35.1	96.6(93.1)	90.3	64.84	72.69	79.65	82.99	85.35	84.10	81.35	75.23	65.84	50.65	26.82
36.3	96.6(92.9)	90.1	65.15	72.53	79.62	82.86	84.80	83.62	81.57	75.52	66.35	51.40	28.51
42.9	96.2(92.6)	89.7	64.23	72.09	78.65	82.22	84.52	83.57	81.22	75.30	66.30	51.87	29.32
43.1	95.9(92.2)	89.4	64.66	71.89	78.62	81.98	84.14	83.16	80.87	75.00	66.12	51.91	29.73
45.7	95.3(91.7)	88.8	64.68	71.62	77.99	81.14	83.82	82.76	80.12	74.29	65.47	51.39	29.61
50.0	95.0(91.3)	88.5	64.11	70.94	77.47	80.87	83.66	82.33	79.98	74.15	65.30	51.32	29.63
54.7	94.6(91.0)	88.2	63.63	70.37	76.31	80.58	83.37	82.16	79.24	73.62	64.61	50.59	28.97
55.1	94.1(90.5)	87.6	63.06	70.05	75.92	79.84	82.55	81.16	78.83	72.96	64.08	49.86	27.89
57.9	93.5(90.0)	87.1	62.40	69.16	75.25	79.04	82.18	81.29	79.19	72.26	63.27	48.94	26.29
60.1	92.8(89.3)	86.5	61.63	68.61	74.14	78.46	81.74	80.72	77.44	71.43	62.27	47.92	24.62
65.1	92.1(88.7)	85.9	60.16	67.27	73.07	77.79	81.48	80.22	76.97	70.66	61.27	46.88	22.05

RUN NUMBER	= 244.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 527.000
SECONDARY TEMPERATURE (R)	= 527.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .673
PRIMARY VELOCITY (FT/SEC)	= 1342.930
MASS FLOW RATIO	= .591
PRIMARY MASS FLOW (LB/SEC)	= .422
THRUST (LBS)	= 25.322
ENVIRONMENTAL TEMPERATURE (R)	= 516.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.498
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .056
INSTRUMENTATION NOISE FLOOR (DB)	= 64.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.70430E+00	135.7
500	2.41276E-02	113.8
1000	1.56437E-01	121.9
2000	6.76280E-01	128.3
4000	1.13449E+00	130.5
8000	9.71192E-01	129.9
16000	4.80525E-01	126.8
31500	2.61253E-01	124.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	161.7
20000	164.7
40000	167.7
80000	170.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	94.1	102.3	107.1	106.6	101.8	95.6	91.4	111.4
20.0	93.4	102.2	107.6	107.9	103.7	95.6	91.2	112.2
25.0	91.7	100.6	107.4	108.4	104.9	96.7	91.7	112.4
30.0	89.9	98.5	106.2	108.5	105.8	98.7	93.3	112.3
35.0	88.1	96.2	103.8	107.3	106.0	100.0	94.4	111.3
40.0	85.9	93.8	101.0	105.1	105.2	101.0	95.7	109.9
45.0	83.0	91.4	98.2	102.4	103.7	101.0	96.7	108.2
50.0	81.9	89.3	95.8	100.2	102.1	100.0	96.6	106.6
55.0	80.8	89.4	95.0	98.8	100.8	99.2	96.6	105.6
60.0	80.6	87.7	93.9	97.5	99.4	98.5	96.3	104.6
65.0	80.6	87.2	93.2	96.5	98.6	97.6	96.1	103.8
70.0	80.6	86.9	92.5	95.8	97.9	97.2	95.9	103.3
75.0	79.6	86.7	91.9	95.1	96.9	96.2	95.1	102.5
80.0	79.4	85.6	91.1	94.5	96.5	96.0	94.7	102.0
85.0	78.8	85.1	90.7	93.9	96.1	95.5	94.2	101.5
90.0	78.3	84.6	90.2	93.5	95.6	95.0	93.8	101.1
95.0	78.0	84.3	89.4	92.7	95.1	94.6	93.2	100.5
100.0	77.6	83.8	89.2	92.4	94.6	94.1	92.9	100.1
105.0	77.0	83.3	88.7	91.8	94.4	93.8	92.3	99.7
110.0	77.0	82.6	87.9	91.4	93.9	93.5	92.0	99.3
115.0	76.2	81.8	87.4	90.9	93.9	93.1	91.7	99.0

MODEL THRUST = 25.322 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 17.8	35.6	71.2	142.3	284.7	569.3	1120.8	2241.7	4447.8	8895.5	17791.1
5795.6	84.7(84.2)	85.3	68.38	76.54	81.25	80.66	74.86	66.37	56.59	41.06	12.80	-37.51	-119.95
4385.7	88.7(88.0)	88.6	70.10	78.83	84.19	84.32	79.47	69.66	61.10	48.61	26.50	-12.30	-75.42
3549.3	91.4(90.6)	90.6	70.21	79.13	85.88	86.69	82.69	73.03	64.68	54.00	35.53	3.56	-48.39
3000.0	93.9(92.8)	91.9	69.91	78.52	86.11	88.30	85.15	76.81	68.65	59.16	43.09	15.60	-28.52
2615.2	95.1(93.8)	92.1	69.28	77.33	84.93	88.28	86.59	79.55	71.53	62.87	48.47	24.12	-14.72
2333.6	95.6(94.0)	91.5	68.08	75.97	83.11	87.08	86.83	81.76	74.26	66.21	53.04	30.99	-3.99
2121.3	95.6(93.5)	90.6	65.99	74.44	81.18	85.25	86.27	82.66	76.43	68.85	56.60	36.28	4.21
1958.1	95.3(92.9)	89.7	65.58	73.02	79.42	83.73	85.39	82.54	77.20	69.97	58.43	39.45	9.61
1831.2	95.1(92.4)	89.3	65.11	72.67	79.21	82.92	84.64	82.37	78.04	71.08	60.10	42.15	14.05
1732.1	94.8(91.8)	88.7	65.37	72.44	78.64	82.15	83.80	82.16	78.37	71.63	61.08	43.94	17.20
1655.1	94.6(91.5)	88.4	65.76	72.39	78.31	81.50	83.36	81.73	78.63	72.05	61.84	45.33	19.64
1596.3	94.5(91.3)	88.2	66.08	72.36	77.96	81.13	83.03	81.66	78.91	72.45	62.50	46.47	21.59
1552.9	94.0(90.6)	87.6	65.35	72.36	77.55	80.72	82.32	80.96	78.39	72.03	62.26	46.58	22.30
1523.1	93.8(90.4)	87.3	65.26	71.51	76.95	80.24	82.09	80.93	78.23	71.94	62.30	46.86	22.99
1505.7	93.4(90.0)	87.0	64.82	71.05	76.63	79.80	81.77	80.53	77.81	71.56	61.99	46.70	23.06
1500.0	93.0(89.6)	86.5	64.27	70.63	76.23	79.38	81.26	80.09	77.44	71.20	61.66	46.42	22.86
1505.7	92.4(89.0)	85.9	63.93	70.29	75.35	78.56	80.75	79.68	76.79	70.53	60.97	45.68	22.04
1523.1	91.8(88.4)	85.4	63.52	69.70	75.05	78.13	80.16	79.05	76.34	70.09	60.45	45.02	21.14
1552.9	91.2(87.9)	84.8	62.68	69.02	74.36	77.41	79.73	78.57	75.59	69.23	59.47	43.79	19.50
1596.3	90.5(87.2)	84.1	62.44	68.04	73.34	76.81	79.00	78.02	74.98	68.53	58.57	42.54	17.66
1655.1	89.7(86.4)	83.5	61.40	66.92	72.54	75.90	78.67	77.22	74.26	67.68	57.47	40.96	15.27

RUN NUMBER	= 245.000
AXIAL POSITION OF PRIMARY WRT, SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 528.000
SECONDARY TEMPERATURE (R)	= 527.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .743
PRIMARY VELOCITY (FT/SEC)	= 1384.242
MASS FLOW RATIO	= .699
PRIMARY MASS FLOW (LB/SEC)	= .420
THRUST (LBS)	= 27.428
ENVIRONMENTAL TEMPERATURE (R)	= 516.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.490
ENVIRONMENTAL HUMIDITY (PER CENT)	= 49.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .050
INSTRUMENTATION NOISE FLOOR (DB)	= 63.559

JSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.10929E+00	134.9
500	2.42205E-02	113.8
1000	1.58469E-01	122.0
2000	6.29891E-01	128.0
4000	9.78890E-01	129.9
8000	7.42567E-01	128.7
16000	3.72216E-01	125.7
31500	2.03036E-01	123.1

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.5
20000	163.6
40000	166.6
80000	169.6

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	94.1	102.1	106.2	105.4	99.5	94.3	90.1	110.3
20.0	93.0	101.6	106.8	106.8	101.6	93.8	89.7	111.1
25.0	92.1	100.9	107.2	107.6	102.8	94.6	90.6	111.7
30.0	89.8	99.2	105.9	107.7	104.6	97.1	92.3	111.5
35.0	88.2	96.8	104.0	107.0	104.7	98.5	93.5	110.8
40.0	86.0	94.1	100.9	104.8	104.1	99.7	94.8	109.3
45.0	82.8	91.1	98.5	102.2	102.0	99.9	95.6	107.6
50.0	81.4	89.1	96.0	100.0	101.2	99.2	95.7	106.0
55.0	81.4	88.4	94.6	98.3	99.9	98.5	95.9	105.0
60.0	80.4	87.7	93.3	97.0	98.7	97.5	95.3	103.8
65.0	80.2	87.6	92.6	96.0	97.4	96.6	95.2	103.0
70.0	80.4	87.0	92.2	95.1	96.7	96.0	94.5	102.3
75.0	80.0	86.2	91.7	94.6	96.0	95.2	94.0	101.6
80.0	80.0	85.9	90.8	93.7	95.1	94.9	93.5	101.0
85.0	78.9	85.4	90.5	93.3	95.0	94.2	93.0	100.6
90.0	78.6	84.6	89.7	92.8	94.4	93.8	92.5	100.1
95.0	78.1	84.3	89.3	92.4	94.2	93.3	92.0	99.7
100.0	77.8	83.6	88.8	91.9	93.5	93.0	91.5	99.1
105.0	77.2	83.1	88.4	91.4	93.4	92.9	91.0	98.9
110.0	76.6	82.5	88.0	90.8	93.1	92.5	90.8	98.5
115.0	76.6	82.3	87.4	90.6	93.0	92.5	90.3	98.3

MODEL THRUST = 27.428 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	18.5	OCTAVE 37.0	BAND 74.1	SOUND 148.1	PRESSURE 296.3	LEVELS 592.5	1186.5	2933.0	4629.1	9258.1	18516.2
795.6	83.0(82.5)	83.8	68.05	75.98	80.09	78.88	72.09	64.43	54.50	38.40	9.16	-42.72	-127.31
385.7	87.0(86.4)	87.1	69.38	77.92	83.07	82.79	76.91	67.28	58.89	45.98	23.12	-16.88	-81.62
549.3	90.1(89.3)	89.6	70.30	79.67	85.29	85.51	80.16	70.44	63.60	51.98	32.91	-.03	-52.99
000.0	92.5(91.5)	90.8	69.42	78.79	85.45	87.09	83.60	74.83	67.02	57.24	40.66	12.35	-32.88
615.2	93.9(92.7)	91.2	68.99	77.60	84.81	87.60	84.93	77.69	70.01	61.10	46.25	21.20	-16.62
353.6	94.6(93.1)	90.6	67.87	75.87	82.71	86.44	85.64	80.05	72.75	64.48	50.91	28.23	-7.62
121.3	94.5(92.6)	89.7	65.44	73.73	81.06	84.68	85.00	81.14	74.76	66.96	54.36	33.46	.60
958.1	94.1(91.8)	88.7	64.77	72.49	79.27	83.21	84.06	81.26	75.84	68.42	56.55	37.03	6.47
831.2	94.0(91.4)	88.2	65.35	72.32	78.53	82.11	83.43	81.29	76.87	69.73	58.44	39.99	11.22
732.1	93.6(91.8)	87.6	64.86	72.07	77.72	81.30	82.69	80.50	76.85	69.94	59.09	41.48	14.10
655.1	93.2(90.2)	87.1	65.05	72.37	77.42	80.67	81.80	80.34	77.31	70.57	60.07	43.11	16.81
596.3	93.0(89.8)	86.8	65.57	72.08	77.31	80.09	81.43	80.08	76.99	70.38	60.15	43.69	18.22
552.9	92.6(89.4)	86.4	65.38	71.57	77.02	79.80	80.97	79.53	76.81	70.30	60.26	44.17	19.30
523.1	92.3(89.1)	86.0	65.55	71.39	76.34	79.16	80.32	79.44	76.50	70.05	60.16	44.31	19.87
505.7	91.9(88.6)	85.6	64.49	71.01	76.00	78.80	80.28	78.86	76.15	69.74	59.92	44.22	20.03
500.0	91.4(88.2)	85.1	64.27	70.26	75.37	78.34	79.76	78.47	75.68	69.29	59.50	43.85	19.73
505.7	91.0(87.8)	84.8	63.71	69.95	74.99	77.91	79.51	77.98	75.19	68.79	58.97	43.27	19.08
523.1	90.3(87.1)	84.1	63.34	69.12	74.35	77.20	78.68	77.63	74.50	68.06	58.16	42.31	17.87
552.9	89.8(86.7)	83.6	62.59	68.48	73.70	76.44	78.45	77.28	73.78	67.27	57.24	41.14	16.28
596.3	89.1(86.0)	83.0	61.73	67.98	73.06	75.86	77.91	76.58	73.26	66.65	56.42	39.96	14.49
655.1	88.5(85.5)	82.4	61.42	67.09	72.21	75.25	77.46	76.23	72.61	65.97	55.18	38.22	11.92

RUN NUMBER	= 246.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 515.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .357
PRIMARY VELOCITY (FT/SEC)	= 1347.095
MASS FLOW RATIO	= .507
PRIMARY MASS FLOW (LB/SEC)	= .429
THRUST (LBS)	= 21.310
ENVIRONMENTAL TEMPERATURE (R)	= 515.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.490
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (DY TO DY/SQ CM)	= .063
INSTRUMENTATION NOISE FLOOR (DB)	= 65.566

JSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.10255E+00	136.1
500	1.25272E-02	111.0
1000	8.99534E-02	119.5
2000	5.30224E-01	127.2
4000	1.17721E+00	130.7
8000	1.22533E+00	130.9
16000	6.88361E-01	128.4
31500	3.79058E-01	125.8

OVERALL SOUND POWER LEVEL+SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	162.8
20000	165.9
40000	168.9
80000	171.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	91.0	99.8	106.2	108.8	103.9	97.2	91.9	111.2
20.0	90.2	99.6	106.7	108.8	106.7	99.7	93.5	112.8
25.0	88.7	98.2	106.2	109.3	107.8	101.9	95.8	113.3
30.0	87.1	96.2	105.2	109.0	108.0	102.6	97.4	113.1
35.0	84.6	94.0	102.9	107.1	106.7	102.2	97.2	111.5
40.0	82.7	91.1	100.0	105.1	106.2	103.1	99.0	110.6
45.0	80.6	88.2	96.7	102.1	104.3	102.6	98.4	108.7
50.0	79.5	86.6	94.5	99.4	102.3	101.6	98.9	107.1
55.0	78.3	85.6	93.1	97.8	100.7	100.4	98.2	105.8
60.0	78.3	85.5	92.5	96.7	99.5	99.2	97.6	104.7
65.0	77.6	85.0	91.9	95.6	98.4	98.1	97.0	103.8
70.0	77.9	84.8	91.3	95.0	97.4	97.3	96.6	103.1
75.0	77.6	84.3	90.8	94.5	96.8	96.9	96.0	102.6
80.0	77.9	84.1	90.2	94.3	96.5	96.6	96.0	102.3
85.0	77.2	83.6	89.5	93.6	96.1	96.5	95.9	102.0
90.0	76.4	83.0	89.2	92.8	95.5	96.0	95.0	101.3
95.0	76.0	82.7	88.6	92.2	94.9	95.5	94.0	100.7
100.0	75.6	81.9	87.7	91.9	94.5	95.0	93.8	100.3
105.0	74.6	81.9	87.6	91.5	94.1	94.5	93.9	99.8
110.0	74.6	81.6	86.9	91.0	93.6	94.0	92.5	99.3
115.0	73.5	80.3	86.8	90.4	93.3	93.5	92.0	98.8

MODEL THRUST = 21.310 FULL SCALE THRUST = 20000.000

L+	PNDB+	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 16.3	32.6	65.3	130.6	261.1	522.3	1029.2	2056.4	4080.2	8160.5	16321.0
795.6	85.7(85.2)	85.7	65.99	74.79	81.12	81.47	77.87	69.07	58.84	44.45	18.22	-28.82	-106.72
385.7	91.0(90.2)	89.8	67.68	77.04	84.11	85.95	83.36	74.79	64.82	53.20	32.63	-3.70	-63.38
549.3	94.3(93.2)	92.1	67.96	77.46	85.42	88.34	86.39	79.26	70.12	60.15	42.92	12.95	-35.92
000.0	96.3(95.0)	93.6	67.87	76.88	85.86	89.59	88.15	81.71	73.99	65.09	50.06	24.27	-17.50
615.2	96.6(94.9)	93.0	66.57	75.47	84.76	89.87	88.17	82.70	75.52	67.38	53.90	31.03	-5.77
333.4	97.5(95.5)	92.9	65.58	73.99	82.47	87.92	88.69	84.73	77.72	71.14	58.79	38.05	4.90
121.3	97.1(94.6)	91.9	64.37	71.96	80.45	85.76	87.66	85.25	78.64	72.47	60.97	41.85	11.44
958.1	96.7(93.8)	90.8	63.98	71.05	78.88	83.60	86.33	85.00	80.61	73.77	62.92	45.04	16.73
831.2	96.3(93.2)	90.1	63.31	70.63	78.07	82.68	85.39	84.41	80.72	74.12	63.79	46.87	20.20
732.1	96.0(92.6)	89.6	63.60	70.96	77.96	82.06	84.67	83.40	80.70	74.30	64.35	48.19	22.81
655.1	95.4(92.1)	89.1	63.50	70.97	77.79	81.60	84.03	83.11	80.67	74.32	64.69	49.11	24.72
596.3	95.3(91.7)	88.7	63.17	71.12	77.51	81.09	83.35	82.79	80.57	74.43	65.03	49.90	26.27
552.9	95.1(91.5)	88.5	64.05	70.75	77.20	80.88	83.02	82.63	80.30	74.25	65.03	50.23	27.16
523.1	95.2(91.4)	88.4	64.57	70.73	76.74	80.81	82.86	82.37	80.51	74.52	65.41	50.84	28.15
505.7	95.1(91.3)	88.2	63.95	70.27	76.25	80.23	82.52	82.42	80.76	74.60	65.57	51.13	28.67
500.6	94.4(90.7)	87.6	63.19	69.71	75.45	79.46	81.93	81.62	79.67	73.72	64.71	50.31	27.93
505.7	93.7(90.1)	86.9	62.74	69.47	75.14	79.06	81.36	81.65	79.68	72.72	63.58	49.24	26.78
523.1	93.1(89.5)	86.4	62.19	68.97	74.33	78.43	80.87	80.80	78.28	72.28	63.18	48.60	25.92
552.9	92.3(88.7)	85.7	61.86	68.31	74.35	77.56	80.23	80.12	77.28	71.22	62.00	47.20	24.13
594.3	91.5(87.9)	84.9	60.42	67.43	73.10	77.11	79.69	79.33	76.55	70.42	61.12	45.89	22.76
655.1	90.6(87.1)	84.1	59.62	66.22	72.93	76.26	78.87	78.51	75.90	69.34	59.71	44.13	19.74

RUN NUMBER	= 247.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 520.000
SECONDARY TEMPERATURE (R)	= 523.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 2.987
VELOCITY RATIO	= .975
PRIMARY VELOCITY (FT/SEC)	= 1373.715
MASS FLOW RATIO	= 1.054
PRIMARY MASS FLOW (LB/SEC)	= .925
THRUST (LBS)	= 31.036
ENVIRONMENTAL TEMPERATURE (R)	= 515.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.490
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.500
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .050
INSTRUMENTATION NOISE FLOOR (DB)	= 63.559

JUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.71612E+00	135.7
500	2.79415E-02	114.5
1000	1.56849E-01	121.9
2000	5.98740E-01	127.8
4000	9.75499E-01	129.9
8000	9.50401E-01	129.8
16000	6.24000E-01	128.0
31500	3.84691E-01	125.9

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.8
20000	163.8
40000	166.8
80000	169.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	94.4	101.2	104.2	102.0	97.4	94.3	90.0	108.3
20.0	93.6	101.1	106.0	103.9	98.2	94.0	90.4	109.8
25.0	92.4	100.5	106.7	106.7	101.2	95.6	91.7	111.0
30.0	90.0	98.5	105.4	107.5	103.5	97.4	93.3	111.1
35.0	88.5	96.8	104.1	107.2	105.5	100.0	95.3	111.2
40.0	86.4	94.5	101.3	105.4	105.7	102.1	97.5	110.4
45.0	84.1	91.8	98.6	102.9	104.4	102.2	98.0	108.9
50.0	82.8	90.0	96.2	100.4	102.6	101.2	98.1	107.3
55.0	82.3	89.2	95.3	99.0	101.5	100.6	98.5	106.5
60.0	82.1	88.7	94.4	97.8	100.4	99.9	98.4	105.7
65.0	81.8	88.7	93.8	97.0	99.6	99.3	98.0	105.1
70.0	81.8	87.8	92.8	96.4	98.7	98.5	97.7	104.4
75.0	81.2	87.5	92.3	95.7	97.8	98.0	97.0	103.7
80.0	81.0	87.2	91.9	95.1	97.4	97.5	96.5	103.2
85.0	80.2	86.2	91.3	94.9	96.9	97.0	96.0	102.8
90.0	80.0	85.6	91.1	94.3	96.7	96.5	95.5	102.3
95.0	79.1	85.1	90.4	93.6	96.1	96.0	95.0	101.8
100.0	78.9	84.7	90.2	93.4	95.9	95.5	94.4	101.4
105.0	78.3	84.2	89.8	93.0	95.6	95.2	94.2	101.1
110.0	77.5	83.6	89.3	92.7	95.4	95.0	94.0	100.9
115.0	77.2	83.1	88.6	92.0	95.5	94.9	93.7	100.6

MODEL THRUST = 31.036 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
			19.7	39.4	78.8	157.6	315.1	630.3	1260.9	2481.7	4924.1	9848.2	19696.3
4795.6	80.1(79.7)	81.2	67.80	74.40	77.48	74.95	69.36	63.55	53.05	36.04	5.21	-49.17	-137.14
4307.7	84.6(84.0)	85.0	69.36	76.89	81.68	79.16	72.91	66.67	58.43	44.83	20.77	-21.11	-88.41
3549.3	89.0(88.2)	88.3	70.08	78.08	84.27	84.04	77.90	70.77	62.99	51.41	31.36	-3.10	-58.14
3000.1	91.7(90.6)	89.9	69.89	77.59	84.46	86.38	81.90	74.37	67.07	56.82	39.62	9.82	-37.16
2615.2	94.2(93.0)	91.1	68.78	77.13	84.35	87.28	85.18	78.46	70.92	61.60	46.04	19.86	-21.48
2333.6	95.6(94.0)	91.1	67.65	75.73	82.48	86.51	86.43	81.72	74.62	65.98	51.78	28.09	-9.12
2121.3	95.6(93.6)	90.3	66.22	73.47	80.64	84.47	85.95	82.82	76.31	69.18	54.99	33.18	-.92
1958.1	95.1(92.8)	89.5	65.60	72.79	78.98	83.02	84.93	82.59	77.38	69.65	57.25	36.89	5.18
1831.2	95.2(92.6)	89.1	65.69	72.61	78.83	82.27	84.39	82.74	78.59	71.17	59.37	40.14	10.29
1732.1	95.1(92.2)	88.8	66.01	72.61	78.28	81.57	83.82	82.65	79.21	72.02	60.70	42.35	13.96
1655.1	95.1(92.0)	88.5	66.06	72.62	78.01	81.15	83.41	82.42	79.34	72.36	61.39	43.72	16.45
1596.3	94.9(91.6)	88.2	66.27	72.63	77.32	80.80	82.86	81.93	79.43	72.57	61.90	44.75	18.35
1557.9	94.6(91.3)	87.9	66.06	72.29	77.07	80.41	82.70	81.71	79.09	72.30	61.84	45.07	19.30
1523.1	94.4(91.0)	87.5	66.04	72.16	76.85	79.96	82.05	81.42	78.79	72.11	61.80	45.29	19.96
1505.7	94.0(90.6)	87.1	65.33	71.30	76.41	79.44	81.66	81.03	78.42	71.78	61.55	45.20	20.12
1508.0	93.4(90.2)	86.8	65.15	70.75	76.23	79.28	81.46	80.58	77.98	71.36	61.15	44.86	19.87
1505.7	93.0(89.8)	86.4	64.70	70.22	75.48	78.61	80.85	80.02	77.44	70.80	60.57	44.22	19.14
1533.1	92.5(89.2)	85.8	63.86	69.72	75.19	78.25	80.51	79.48	76.91	70.23	59.91	43.41	18.08
1552.9	91.4(88.5)	85.2	63.18	69.00	74.41	77.71	80.04	78.99	76.27	69.52	59.06	42.29	16.57
1546.3	91.2(88.0)	84.7	62.11	68.18	73.45	77.19	79.60	78.47	75.76	68.88	58.21	41.06	14.66
1659.1	90.5(87.4)	84.1	61.80	67.19	72.46	76.16	79.32	78.00	75.02	68.02	57.07	39.40	12.14

RUN NUMBER	
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (IN.)	= 248.000
PRIMARY TEMPERATURE (R)	= 0.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 575.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= .744
MASS FLOW RATIO	= 1380.304
PRIMARY MASS FLOW (LB/SEC)	= 1.290
THRUST (LBS)	= .427
ENVIRONMENTAL TEMPERATURE (R)	= 35.836
ENVIRONMENTAL PRESSURE (IN.HG)	= 515.500
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.490
CALIBRATION FACTOR (DB TO DB/SQ CM)	= 70.500
INSTRUMENTATION NOISE FLOOR (DB)	= .050
	= 83.559

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.22420E+00	136.3
500	3.75142E-02	115.7
1000	2.08093E-01	123.2
2000	7.15513E-01	128.5
4000	1.09179E+00	130.4
8000	1.05418E+00	130.2
16000	7.00505E-01	128.5
31500	4.15955E-01	126.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.7
20000	163.7
40000	166.7
80000	169.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	95.6	102.3	106.5	101.7	96.7	93.6	89.9	108.5
20.0	95.1	102.0	106.0	103.7	97.9	93.8	90.2	109.7
25.0	93.3	101.7	107.0	105.9	100.1	95.3	91.6	110.8
30.0	92.1	99.8	106.2	107.3	103.2	97.0	92.9	111.3
35.0	89.6	98.3	104.9	107.7	104.5	99.5	94.8	111.6
40.0	87.3	95.9	102.4	106.0	105.6	101.0	96.7	110.6
45.0	85.8	93.9	100.2	104.1	104.8	101.8	97.7	109.5
50.0	84.5	92.1	98.0	101.6	103.5	101.7	94.5	108.2
55.0	83.8	90.8	96.5	100.0	102.1	101.0	98.7	107.2
60.0	83.2	90.6	96.0	99.2	101.7	101.0	98.9	106.9
65.0	82.9	90.0	94.8	98.0	100.5	100.0	98.7	105.9
70.0	82.6	89.4	94.2	97.5	99.6	99.1	98.4	105.2
75.0	82.3	88.4	93.8	96.6	98.5	98.0	97.5	104.7
80.0	82.1	87.9	93.1	96.1	97.9	98.8	97.0	104.1
85.0	81.6	88.0	92.5	95.9	97.9	98.0	96.2	103.6
90.0	80.8	86.9	92.2	95.4	97.7	97.5	96.0	103.3
95.0	79.8	85.7	91.8	94.7	97.4	97.2	95.5	102.8
100.0	80.0	86.0	91.3	94.3	96.7	97.0	95.2	102.4
105.0	79.3	85.3	90.8	93.9	96.7	96.5	95.0	102.2
110.0	78.6	85.1	90.5	93.8	96.8	96.3	94.5	102.0
115.0	77.5	84.3	90.1	93.1	96.7	96.0	94.0	101.6

MODEL THRUST = 35.836 FULL SCALE THRUST = 20000.000

L.	PNDB	OASPL	21.2	OCTAVE 42.3	BAND 84.7	SOUND 169.3	PRESSURE 338.6	LEVELS 677.3	1353.4	2686.8	5291.2	10582.4	21164.9
5795.6	79.6(79.2)	80.9	68.37	75.00	77.11	73.89	67.83	61.81	51.30	33.17	.39	-57.00	-148.98
5385.7	84.3(83.7)	84.5	70.24	77.20	81.69	78.45	71.88	65.52	56.82	42.37	16.84	-27.32	-97.66
3549.3	88.3(87.6)	87.5	70.29	78.49	83.90	82.40	76.13	69.52	61.44	49.38	28.15	-8.14	-65.66
3000.0	91.3(90.4)	89.4	70.56	78.31	84.62	85.50	80.60	73.18	65.53	54.69	36.28	5.12	-43.44
2615.2	93.9(92.8)	90.8	69.41	77.41	84.67	87.15	84.42	77.10	69.32	59.50	41.06	15.52	-27.46
2333.4	95.3(93.6)	90.7	68.01	76.59	83.05	86.49	85.43	79.66	72.83	63.74	46.75	23.65	-14.98
2121.9	95.6(93.9)	90.3	67.31	75.15	81.40	85.39	85.67	81.62	75.08	66.54	52.44	29.73	-5.86
1958.1	95.5(93.5)	89.6	66.69	74.23	80.15	83.62	85.10	82.31	76.82	68.71	55.65	34.27	1.21
1831.2	95.4(93.0)	89.1	66.60	73.54	79.24	82.63	84.40	82.34	77.87	70.08	57.68	37.49	6.39
1732.1	95.7(93.2)	89.3	66.50	73.40	79.25	82.34	84.46	82.87	78.75	71.23	59.33	40.04	10.44
1655.1	95.1(92.6)	88.7	66.49	73.43	78.98	81.98	83.84	82.74	79.09	71.77	60.26	41.73	13.36
1594.3	95.0(92.1)	88.3	66.59	73.34	78.76	81.69	83.42	82.62	79.26	72.09	60.89	42.91	15.40
1552.9	94.7(91.9)	88.0	66.59	72.98	77.96	81.42	82.59	81.99	79.04	71.90	60.82	43.05	16.21
1523.1	94.5(91.6)	87.8	66.50	72.10	77.39	80.37	81.88	81.94	78.34	71.40	60.58	43.24	16.90
1505.7	94.4(91.1)	87.3	66.87	72.45	76.96	81.20	81.95	81.28	77.70	70.77	60.04	42.90	16.79
1500.0	93.7(90.8)	87.0	65.35	71.25	76.61	79.75	81.77	80.84	77.56	70.66	59.65	42.87	16.84
1505.7	93.2(90.1)	86.5	64.27	70.21	76.28	79.07	81.41	80.61	77.08	70.12	59.19	42.54	16.19
1523.1	92.7(89.6)	86.0	64.39	73.36	75.61	77.51	80.51	80.18	76.61	69.63	58.81	41.91	15.13
1552.9	92.2(89.0)	85.5	63.65	69.65	75.00	76.00	80.43	79.50	76.19	69.14	58.16	40.54	13.74
1594.3	91.7(88.6)	85.1	62.67	69.01	74.36	77.41	80.34	79.04	74.33	68.16	56.96	38.98	11.67
1655.1	91.3(88.1)	84.6	61.17	67.97	73.67	76.61	79.93	78.34	74.41	67.08	55.48	37.05	9.24

RUN NUMBER	= 246.000
AXIAL POSITION OF PRIMARY NPT. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 520.000
SECONDARY TEMPERATURE (R)	= 520.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 4.050
VELOCITY RATIO	= .354
PRIMARY VELOCITY (FT/SEC)	= 1373.715
MASS FLOW RATIO	= 1.300
PRIMARY MASS FLOW (LB/SEC)	= .625
THRUST (LBS)	= 26.474
ENVIRONMENTAL TEMPERATURE (R)	= 515.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.490
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.500
CALIBRATION FACTOR (MV TO DY/S) (M)	= .050
INSTRUMENTATION NOISE FLOOR (DB)	= 63.559

TIC POWER AND SOUND POWER LEVEL FOR MODEL JET

REQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	2.82440E+00	134.5	THRUST	POWER LEVEL(DB)
			10000	160.3
500	2.06854E-02	113.2	20000	163.3
1000	1.27274E-01	121.0	40000	166.3
2000	4.88796E-01	126.9	80000	169.3
4000	8.40951E-01	129.2		
8000	7.58299E-01	128.8		
16000	3.65432E-01	126.0		
31500	1.91976E-01	122.8		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	94.1	101.5	105.6	105.1	100.1	94.8	90.4	110.0
20.0	92.9	101.6	106.5	106.6	103.5	95.8	90.9	111.3
25.0	91.3	99.8	106.1	107.7	105.3	98.6	92.6	111.8
30.0	89.0	97.7	104.9	107.5	105.6	99.1	93.1	111.6
35.0	86.3	95.0	102.0	105.9	105.1	100.0	94.9	110.2
40.0	84.0	92.2	99.2	103.5	104.1	100.6	94.2	108.7
45.0	82.3	89.8	96.7	101.2	102.7	100.5	96.3	107.2
50.0	80.8	88.2	94.8	98.3	100.6	99.3	95.8	105.6
55.0	80.2	87.0	92.9	97.1	98.6	98.0	95.7	104.0
60.0	80.0	86.4	92.4	95.9	96.2	97.7	95.0	103.3
65.0	79.8	86.3	91.9	94.0	97.8	96.3	94.3	102.3
70.0	79.8	85.7	90.9	94.1	96.1	95.5	93.5	101.5
75.0	78.6	85.1	90.4	93.6	95.1	95.0	93.0	100.8
80.0	79.1	84.9	89.9	93.1	94.7	94.7	92.5	100.5
85.0	78.9	84.3	89.3	92.1	93.8	94.2	92.1	99.8
90.0	77.8	83.4	88.6	91.8	93.6	93.5	91.8	99.3
95.0	77.5	83.4	88.1	91.3	93.1	93.0	91.2	98.3
100.0	77.2	83.3	87.8	90.8	92.7	92.3	90.8	98.3
105.0	76.6	82.5	86.9	90.1	92.0	91.8	90.0	97.7
110.0	75.9	81.7	86.4	89.4	91.2	91.2	89.5	97.0
115.0	75.6	81.1	86.3	89.5	91.3	90.8	89.0	96.8

MODEL THRUST = 26.474 FULL SCALE THRUST = 20000.000

L.	PNdB.	OASPL	18.2	OCTAVE 36.4	BAND 72.8	SOUND 145.5	PRESSURE 291.1	LEVELS 582.1	1164.1	2292.1	4547.8	9095.6	18191.3
15.4	83.0(92.5)	83.6	68.16	75.57	79.52	78.75	72.89	65.28	55.21	39.36	10.56	-40.62	-124.25
18.7	87.7(97.0)	87.4	69.39	78.04	82.94	82.78	79.00	69.57	60.32	47.60	25.67	-14.39	-78.40
20.3	91.4(90.5)	89.8	69.60	78.12	84.32	85.78	82.84	74.48	65.21	54.34	35.54	3.03	-49.35
20.5	93.2(92.2)	90.8	68.76	77.61	84.59	87.04	84.70	77.05	68.13	58.48	42.13	14.19	-30.55
15.2	94.2(92.8)	90.7	67.24	76.82	82.98	86.66	85.80	78.32	71.69	62.89	48.25	23.50	-15.88
13.6	94.7(92.9)	90.1	65.65	76.14	81.15	85.33	85.54	81.14	74.41	66.24	52.65	30.45	-5.82
11.3	94.6(92.5)	89.4	65.11	77.64	79.44	83.85	85.00	81.99	75.69	67.99	55.54	34.91	2.60
18.1	93.4(91.6)	88.2	64.35	71.71	78.24	81.71	83.65	81.61	76.19	68.85	57.13	37.85	7.61
11.2	93.2(90.4)	87.3	64.32	71.66	76.93	81.67	82.25	80.91	76.86	69.80	58.64	40.42	11.94
12.1	93.2(90.3)	87.2	64.59	70.99	76.96	80.35	82.36	80.49	75.75	69.91	59.20	41.80	14.70
14.1	92.7(89.7)	86.6	64.36	71.38	76.82	79.63	81.58	80.20	74.59	69.92	59.55	42.79	16.76
16.1	92.4(89.3)	86.2	65.08	71.82	75.18	79.38	81.01	79.81	75.18	69.64	59.56	43.27	18.06
17.9	92.1(88.9)	85.8	64.13	70.64	75.97	79.08	80.31	79.49	76.01	69.57	59.46	43.75	19.14
23.1	91.9(88.7)	85.6	64.79	70.54	75.66	78.69	80.09	79.40	75.72	69.35	59.56	43.90	19.71
28.7	91.6(88.2)	85.0	64.65	70.11	75.64	77.76	79.24	79.04	75.50	69.16	59.45	43.94	19.99
30.0	91.0(87.7)	84.6	63.63	69.29	74.35	77.49	79.10	78.39	75.17	68.84	59.16	43.69	19.83
25.7	90.6(87.1)	84.0	63.31	69.22	73.82	76.94	78.54	77.82	74.54	68.20	58.50	42.94	19.33
23.1	89.7(86.4)	83.4	62.91	68.47	73.41	76.43	78.00	76.99	74.00	67.82	57.84	42.18	17.99
22.9	88.4(85.6)	82.6	62.12	67.67	72.15	74.52	77.16	76.34	73.01	66.57	56.65	40.74	16.14
24.3	87.4(84.7)	81.7	61.22	67.01	71.43	74.67	76.12	75.51	72.22	65.69	55.58	39.31	14.10
25.1	87.1(84.0)	81.2	60.55	66.11	71.19	74.13	75.86	74.72	71.71	64.94	54.87	37.51	11.99

RUN NUMBER	
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 250.00 (747.00)
PRIMARY TEMPERATURE (R)	= 9.809
SECONDARY TEMPERATURE (R)	= 517.000
PRIMARY PRESSURE RATIO	= 534.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 4.956
PRIMARY VELOCITY (FT/SEC)	= .684
MASS FLOW RATIO	= 1389.767
PRIMARY MASS FLOW (LB/SEC)	= 2.814
THRUST (LBS)	= .427
ENVIRONMENTAL TEMPERATURE (R)	= 53.104
ENVIRONMENTAL PRESSURE (IN.HG)	= 522.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.450
CALIBRATION FACTOR (RV TO DY/S) C-4	= 69.000
INSTRUMENTATION NOISE FLOOR (DB)	= .056
	= 64.590

JSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.13749E+00	136.2
500	8.64049E-02	119.4
1000	3.87902E-01	125.9
2000	9.93044E-01	130.0
4000	9.45903E-01	129.8
8000	6.24253E-01	128.0
16000	4.86051E-01	126.9
31500	6.13937E-01	127.9

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.9
20000	161.9
40000	164.9
80000	167.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	101.0	106.6	108.7	103.9	97.5	95.4	90.5	112.2
20.0	99.4	106.6	109.1	105.6	98.8	93.9	89.9	112.6
25.0	97.4	104.6	108.7	106.8	100.5	94.4	91.5	112.4
30.0	95.5	102.2	107.6	107.0	102.1	95.8	93.2	111.8
35.0	92.5	99.9	105.3	106.1	103.2	97.8	95.2	110.7
40.0	90.0	97.3	102.8	104.0	102.9	99.2	97.0	109.2
45.0	87.6	94.5	99.8	101.8	102.0	99.7	99.3	107.9
50.0	86.7	93.4	98.4	100.5	100.9	99.5	100.9	107.3
55.0	85.6	92.2	97.1	99.1	99.7	99.1	101.4	106.7
60.0	85.7	91.8	96.1	97.8	98.8	99.4	101.4	106.2
65.0	85.7	91.1	95.6	97.4	98.0	98.9	100.6	105.6
70.0	85.7	90.6	94.9	97.0	97.4	98.5	100.0	105.1
75.0	84.4	89.9	94.3	96.6	96.7	97.9	99.3	104.5
80.0	84.3	89.0	93.9	95.8	96.0	97.0	98.7	103.8
85.0	83.7	88.7	93.4	95.4	95.5	96.5	98.0	103.2
90.0	83.2	88.3	92.8	95.1	95.0	96.0	97.0	102.6
95.0	83.0	87.8	92.5	94.9	94.7	95.5	96.8	102.3
100.0	82.5	87.5	92.4	94.8	94.3	95.1	96.5	102.0
105.0	81.9	87.8	92.0	94.5	94.0	94.9	96.0	101.6
110.0	81.7	88.0	91.9	94.5	93.8	94.6	95.9	101.5
115.0	81.1	85.9	91.4	94.7	93.5	94.5	95.8	101.4

MODEL THRUST = 53.104 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE BAND SOUND PRESSURE LEVELS 25.8	51.5	103.1	206.3	412.2	824.5	1623.2	3246.3	6441.1	12882.2	25764.4
795.6	82.0(	81.8)	82.9	72.05	77.58	79.56	74.18	66.38	60.44	47.06	25.45	-13.14	-79.35	-182.71
385.7	85.5(	85.2)	85.8	72.37	80.04	82.38	73.53	70.56	62.83	52.38	35.30	5.36	-45.47	-124.42
549.3	88.4(	87.9)	87.3	72.72	79.92	83.91	81.62	74.43	64.01	57.88	43.48	18.68	-23.03	-87.49
800.0	90.5(	89.8)	88.1	72.26	78.96	84.24	83.41	77.75	69.50	62.41	49.78	28.35	-7.37	-62.32
615.2	91.6(	90.7)	89.1	70.49	77.79	83.21	83.72	80.13	71.08	64.59	55.18	36.12	4.60	-43.69
333.4	92.3(	91.0)	87.5	68.95	76.19	81.65	82.68	81.01	75.80	70.08	59.59	42.26	13.60	-29.61
121.3	92.8(	91.1)	86.6	67.38	74.23	79.55	81.32	80.97	77.25	73.73	63.92	47.49	21.76	-17.98
958.1	93.9(	91.9)	86.5	67.22	73.83	78.44	80.74	80.63	77.93	76.43	67.14	52.12	27.76	-9.15
831.2	94.7(	92.4)	86.3	66.85	73.29	78.07	79.94	80.04	78.31	77.87	68.99	54.75	31.27	-2.94
732.1	95.1(	92.8)	86.3	67.20	73.32	77.61	79.15	79.65	79.12	78.57	70.01	56.37	34.48	1.49
655.1	95.0(	92.6)	86.1	67.60	73.37	77.49	79.16	79.29	79.13	78.39	70.07	56.91	35.86	4.19
596.3	94.9(	92.5)	86.0	67.91	72.89	77.05	79.03	79.06	79.11	78.25	70.13	57.32	36.91	6.27
552.9	94.6(	92.1)	85.7	66.92	72.33	76.75	78.97	78.83	78.79	77.91	69.93	57.39	37.45	7.56
523.1	94.2(	91.7)	85.1	66.94	71.62	76.52	78.23	78.10	78.11	77.56	69.67	57.31	37.70	8.32
505.7	93.7(	91.2)	84.8	66.42	71.44	76.17	78.02	77.71	77.73	77.00	69.17	56.92	37.50	8.43
500.0	92.9(	90.4)	84.2	65.96	71.08	75.53	77.72	77.21	77.23	76.01	68.19	55.98	36.62	7.65
505.7	92.6(	90.1)	83.9	66.75	70.83	75.27	77.44	76.89	76.69	75.79	67.95	55.70	36.28	7.21
523.1	92.7(	89.7)	83.5	65.11	70.11	74.96	77.24	76.38	76.21	75.34	67.45	55.09	35.48	6.11
552.9	91.5(	89.0)	82.9	64.37	69.26	74.44	76.76	75.90	75.77	74.59	66.60	54.07	34.13	4.24
596.3	91.0(	88.6)	82.5	63.93	68.27	74.14	76.52	75.66	75.23	74.18	66.05	53.25	32.84	2.19
655.1	90.4(	88.0)	82.0	62.99	67.83	73.29	76.40	74.80	74.72	73.58	65.27	52.19	31.65	-.41

RUN NUMBER	= 251.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 523.000
SECONDARY TEMPERATURE (R)	= 541.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 4.850
VELOCITY RATIO	= .756
PRIMARY VELOCITY (FT/SEC)	= 1377.672
MASS FLOW RATIO	= 3.231
PRIMARY MASS FLOW (LB/SEC)	= .623
THRUST (LBS)	= 62.375
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.460
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.57932E+00	138.2
500	1.50875E-01	121.8
1000	5.80430E-01	127.6
2000	1.40523E+00	131.5
4000	1.46546E+00	131.7
8000	1.02269E+00	130.1
16000	9.40092E-01	129.7
31500	1.01434E+00	130.1

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.2
20000	163.2
40000	166.3
80000	169.3

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	105.4	108.7	109.5	105.3	99.2	94.9	90.8	113.9
20.0	101.3	107.9	110.4	106.7	100.1	95.1	91.9	113.9
25.0	99.4	106.5	110.1	107.8	101.5	96.1	93.1	113.7
30.0	97.0	104.5	109.1	108.4	103.5	98.1	95.2	113.3
35.0	94.3	101.7	106.8	107.9	104.5	99.7	97.2	112.3
40.0	91.5	98.1	104.4	105.5	104.2	100.9	99.5	110.7
45.0	89.9	96.6	102.3	104.0	103.9	102.3	101.7	110.2
50.0	88.5	95.2	100.3	102.7	102.8	102.1	103.2	109.5
55.0	87.3	93.8	99.1	101.5	102.2	102.3	103.9	109.2
60.0	87.3	93.3	98.3	100.5	101.1	102.1	103.0	108.4
65.0	87.0	92.6	97.5	100.3	100.6	102.0	102.1	107.9
70.0	86.4	92.2	96.7	99.1	99.9	101.0	101.4	107.1
75.0	85.8	91.1	96.3	99.0	99.0	100.2	100.4	106.5
80.0	85.6	90.9	95.6	98.1	98.5	99.9	100.4	106.0
85.0	85.3	90.4	95.4	97.8	98.2	99.5	100.0	105.6
90.0	84.8	90.1	94.8	97.8	98.0	99.3	99.7	105.4
95.0	84.4	89.1	94.2	97.7	97.9	99.0	99.5	105.1
100.0	84.1	88.9	94.4	98.0	97.8	98.9	99.3	105.1
105.0	83.5	88.0	93.8	97.5	97.5	98.8	99.2	104.9
110.0	82.8	88.2	93.9	97.2	97.4	98.7	99.1	104.7
115.0	82.6	87.3	93.7	98.3	97.4	98.7	99.0	104.9

MODEL THRUST = 62.375 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 27.9	55.8	111.7	223.4	446.8	893.5	1759.1	3518.3	6980.7	13961.4	27922.9
5795.6	82.7(82.6)	83.9	75.71	78.98	79.60	74.46	67.02	58.60	45.06	21.87	-19.34	-89.40	-197.56
4385.7	86.2(86.0)	86.3	74.11	80.57	82.93	78.86	70.98	62.79	52.51	34.23	2.32	-51.43	-134.01
3549.3	89.2(88.7)	88.0	73.97	81.11	84.55	81.90	74.62	66.61	57.90	42.53	16.13	-27.96	-95.34
3000.0	91.5(90.9)	88.9	73.05	80.51	85.01	84.93	78.29	70.71	63.00	49.54	26.77	-10.94	-68.38
2615.2	92.8(91.9)	89.0	71.55	78.92	83.97	84.76	80.60	73.97	67.25	55.14	34.89	1.64	-48.82
2333.4	93.1(91.9)	88.1	69.76	76.30	82.54	83.65	81.46	76.46	71.26	60.13	41.75	11.75	-33.59
2121.3	94.2(92.6)	88.1	68.97	75.62	81.29	82.90	82.06	78.91	74.86	64.47	47.48	19.94	-21.55
1958.1	95.5(93.6)	87.8	68.28	74.95	79.98	82.20	81.71	79.63	77.60	67.78	51.87	26.22	-12.31
1831.2	96.5(94.5)	88.0	67.62	74.19	79.39	81.59	81.83	80.56	79.22	69.84	54.77	30.58	-5.64
1732.1	96.3(94.3)	87.7	68.10	74.13	79.12	81.13	81.24	80.95	79.04	70.01	55.59	32.55	-1.88
1655.1	96.7(94.1)	87.7	68.23	73.78	78.88	81.27	81.17	81.23	78.72	69.96	56.05	33.90	.87
1594.3	96.9(93.8)	87.2	67.97	73.71	78.23	80.65	80.76	80.73	79.57	70.01	56.48	35.01	3.05
1552.9	95.7(93.5)	86.9	67.66	72.92	77.98	80.54	80.15	80.20	78.38	69.97	56.73	35.77	4.59
1523.1	95.4(93.2)	86.5	67.61	72.82	77.60	79.81	79.80	80.10	78.15	69.85	56.81	36.18	5.54
1505.7	95.2(93.0)	86.3	67.36	72.64	77.36	79.65	79.62	79.82	77.90	69.65	56.72	35.30	5.98
1500.0	95.0(92.7)	86.1	66.96	72.17	76.91	79.44	79.46	79.67	77.63	69.40	56.52	36.16	5.94
1505.7	94.7(92.4)	85.8	66.56	71.14	76.15	78.51	79.33	79.34	77.37	69.12	56.19	35.77	5.45
1523.1	94.4(92.2)	85.7	66.03	71.23	76.20	78.72	79.12	79.12	77.05	68.79	55.70	35.08	4.44
1552.9	94.0(91.8)	85.2	65.20	70.42	75.52	78.10	78.64	78.42	76.69	68.28	55.04	34.07	2.89
1596.3	93.5(91.3)	84.8	64.38	69.69	75.35	78.53	78.28	78.03	76.21	67.65	54.13	32.66	.69
1655.1	93.1(90.9)	84.7	63.84	68.57	74.88	79.32	77.94	78.05	75.69	66.91	53.00	30.85	-2.18

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 252.000
PRIMARY TEMPERATURE (R)	= 9.800
SECONDARY TEMPERATURE (R)	= 531.000
PRIMARY PRESSURE RATIO	= 541.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 9.788
PRIMARY VELOCITY (FT/SEC)	= .357
MASS FLOW RATIO	= 1388.149
PRIMARY MASS FLOW (LB/SEC)	= 2.469
THRUST (LBS)	= .422
ENVIRONMENTAL TEMPERATURE (R)	= 34.206
ENVIRONMENTAL PRESSURE (IN.HG)	= 523.500
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.470
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 64.500
INSTRUMENTATION NOISE FLOOR (DB)	= .079
	= 67.587

COUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.64286E+00	138.2
500	1.86982E-01	122.7
1000	1.09153E-01	120.4
2000	5.37635E-01	127.3
4000	1.54230E+00	131.9
8000	2.16037E+00	133.3
16000	1.38201E+00	131.4
31500	7.24162E-01	128.6

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	162.9
20000	165.9
40000	168.9
80000	171.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	110.9	100.3	105.3	107.2	107.2	103.4	98.6	114.8
20.0	91.9	100.2	106.9	109.4	108.9	106.9	100.5	114.3
25.0	90.2	98.7	106.4	110.6	110.7	107.3	102.8	115.5
30.0	87.9	97.5	105.2	110.8	111.6	108.4	104.0	116.0
35.0	86.5	94.9	102.7	109.2	111.0	108.4	104.3	115.2
40.0	83.8	92.3	100.5	106.1	108.8	107.0	103.7	113.1
45.0	82.6	90.2	97.2	102.9	106.2	105.7	103.0	111.0
50.0	81.8	88.5	95.2	100.4	104.0	103.8	101.5	108.9
55.0	80.3	87.2	93.8	98.8	101.8	101.8	100.4	107.1
60.0	80.0	86.8	93.3	97.4	100.6	100.5	99.3	106.0
65.0	80.0	86.5	92.6	96.4	99.2	99.3	98.6	104.9
70.0	79.6	86.1	91.9	95.6	98.3	98.3	97.8	104.0
75.0	78.9	85.6	91.1	95.1	97.4	97.4	97.0	103.2
80.0	78.9	84.3	90.4	93.9	96.4	96.9	96.0	102.3
85.0	78.0	84.3	90.3	93.4	95.7	95.8	95.0	101.6
90.0	78.0	83.9	89.1	92.8	94.8	95.0	94.0	100.7
95.0	77.1	83.1	88.6	92.4	94.2	94.2	93.2	100.0
100.0	77.1	82.9	88.3	91.6	93.7	93.6	92.8	99.5
105.0	76.6	82.0	87.7	90.8	93.0	93.0	92.2	98.8
110.0	74.9	81.8	86.9	90.4	92.6	92.8	91.9	98.5
115.0	75.5	81.1	86.6	89.9	92.1	92.5	91.5	98.1

MODEL THRUST = 34.206 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	20.7	OCTAVE 41.4	BAND 82.7	SOUND 165.4	PRESSURE 330.8	661.7	LEVELS 1302.7	2605.4	5169.5	10339.0	20678.0
5795.6	87.8(87.4)	87.1	83.81	73.25	78.12	79.66	78.57	72.01	60.56	42.80	10.66	-45.74	-136.62
4386.7	91.8(91.0)	88.7	67.30	75.58	82.13	84.41	83.08	76.98	67.55	53.38	28.33	-15.08	-84.43
3549.3	95.8(94.8)	91.8	67.40	75.86	83.53	87.46	87.00	81.82	73.32	61.28	40.44	4.73	-51.96
3000.0	97.4(97.1)	93.8	66.54	76.18	83.84	89.23	89.50	84.79	77.00	66.36	48.28	17.63	-30.75
2615.2	99.3(97.8)	94.1	66.37	74.71	82.53	88.88	90.21	86.34	79.17	69.51	53.37	25.27	-16.29
2333.4	98.7(96.8)	92.9	64.69	73.16	81.28	86.79	89.05	86.08	80.11	71.17	56.43	31.93	-6.37
2121.3	97.7(95.5)	91.6	64.33	71.92	78.84	84.45	87.36	85.78	80.71	72.30	58.64	36.09	1.00
1958.1	96.6(94.1)	90.2	64.22	70.87	77.57	82.61	85.83	84.70	80.20	72.21	59.36	38.32	5.70
1831.2	95.6(92.9)	89.1	63.28	70.12	76.77	81.42	84.30	83.36	79.87	72.21	60.00	40.13	9.43
1732.1	95.0(92.2)	88.4	63.47	70.27	76.74	80.71	83.56	82.63	79.48	72.07	60.36	41.40	12.20
1655.1	94.5(91.5)	87.8	63.42	70.33	76.40	80.12	82.56	81.90	73.30	72.08	60.76	42.51	14.47
1596.3	94.2(91.1)	87.3	63.78	70.24	76.01	79.64	81.98	81.25	78.94	71.87	60.85	43.14	15.99
1552.9	93.8(90.6)	86.7	63.26	69.97	75.49	79.35	81.34	80.65	78.48	71.52	60.71	43.40	16.91
1523.1	93.1(89.9)	86.0	63.43	68.89	74.94	78.35	80.58	80.29	77.66	70.78	60.12	43.08	17.04
1505.7	92.3(89.1)	85.4	62.70	68.94	74.92	77.97	80.00	79.37	76.81	69.98	59.41	42.53	16.75
1500.0	91.5(88.3)	84.6	62.73	68.57	73.74	77.40	79.13	78.58	75.87	69.05	58.51	41.69	16.00
1505.7	90.6(87.5)	83.9	61.72	67.40	73.26	76.92	78.44	77.72	74.94	68.14	57.57	40.70	14.92
1523.1	90.0(86.8)	83.2	61.69	67.44	72.85	76.63	77.81	77.01	74.45	67.57	56.92	39.88	13.84
1552.9	89.1(85.9)	82.4	61.02	66.45	72.02	75.12	76.98	76.19	73.64	66.72	55.91	38.60	12.11
1596.3	88.4(85.4)	81.8	59.09	65.91	71.07	74.42	76.33	75.81	73.04	66.00	54.97	37.26	10.12
1655.1	87.5(84.6)	81.0	59.38	64.99	70.38	73.61	75.47	75.11	72.19	64.97	53.65	35.40	7.36

RUN NUMBER	= 253.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 531.060
SECONDARY TEMPERATURE (R)	= 537.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 9.700
VELOCITY RATIO	= .877
PRIMARY VELOCITY (FT/SEC)	= 1384.169
MASS FLOW RATIO	= 5.463
PRIMARY MASS FLOW (LB/SEC)	= .925
THRUST (LBS)	= 86.110
ENVIRONMENTAL TEMPERATURE (R)	= 523.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 64.500
CALIBRATION FACTOR (MV TO DY/S) CH1	= .089
INSTRUMENTATION NOISE FLOOR (DB)	= 88.587

COUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.21413E+01	140.8
500	1.28619E-01	121.1
1000	5.64207E-01	127.5
2000	1.67599E+00	132.2
4000	2.69534E+00	134.3
8000	3.40649E+00	135.3
16000	2.31518E+00	133.6
31500	1.35549E+00	131.3

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	161.5
20000	164.5
40000	167.5
80000	170.5

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	100.7	106.3	107.3	106.5	105.0	100.9	96.4	113.0
20.0	99.9	106.3	109.0	108.8	107.7	104.4	100.0	114.9
25.0	99.2	105.8	109.9	109.9	108.6	105.5	101.9	115.6
30.0	96.8	104.3	110.1	112.0	111.0	107.8	103.8	117.0
35.0	95.2	102.5	108.6	111.7	112.3	108.9	104.7	117.1
40.0	93.5	100.2	106.6	110.0	112.2	109.6	105.0	116.5
45.0	91.6	98.3	103.8	107.3	110.0	108.6	105.5	114.7
50.0	89.5	96.4	102.3	105.6	108.3	107.3	104.7	113.2
55.0	89.0	95.8	100.9	104.0	106.2	105.5	103.6	111.5
60.0	88.7	95.2	100.3	102.9	105.0	104.7	103.7	110.7
65.0	88.4	94.4	99.6	101.9	103.7	103.2	102.5	109.5
70.0	88.6	93.9	98.8	101.1	102.4	102.1	102.3	108.7
75.0	88.0	93.4	97.9	100.5	101.4	101.1	101.0	107.7
80.0	87.5	93.0	97.4	99.6	100.6	101.4	100.5	107.3
85.0	86.8	92.4	97.0	98.7	99.7	100.5	99.8	106.5
90.0	87.0	92.0	96.6	98.1	99.3	100.0	99.0	106.0
95.0	86.3	90.9	96.2	97.9	99.1	99.5	98.5	105.6
100.0	85.3	90.9	95.8	97.2	98.7	99.0	98.0	105.1
105.0	85.0	90.5	95.2	96.7	98.6	98.6	97.6	104.8
110.0	83.9	89.6	95.1	96.4	98.7	98.4	97.6	104.6
115.0	83.4	88.9	94.9	96.3	99.0	98.3	97.5	104.6

MODEL THRUST = 86.110 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 32.8	65.6	131.2	262.5	524.9	1049.9	2098.9	4133.8	8202.1	16404.1	32808.2
5795.6	82.2(82.1)	80.9	69.65	75.17	75.92	74.35	70.83	61.59	45.79	19.08	-27.78	-105.94	-223.91
4385.7	87.9(87.6)	85.0	71.29	77.60	80.15	79.39	76.73	69.48	56.62	35.68	-.51	-60.39	-150.39
3549.3	91.3(90.9)	87.7	72.40	78.94	82.85	82.44	79.90	73.61	63.14	45.62	15.76	-33.27	-106.68
3000.0	94.9(94.4)	90.5	71.48	78.96	84.62	86.10	84.08	78.20	68.33	53.06	27.36	-14.55	-77.06
2615.2	97.0(96.3)	91.7	71.01	78.27	84.32	87.06	86.72	80.99	71.71	58.01	35.22	-1.70	-56.58
2333.6	98.0(97.1)	91.9	70.36	77.65	83.35	86.44	87.74	83.10	73.98	61.44	40.78	7.51	-41.78
2121.3	97.4(96.3)	90.7	69.27	75.97	81.37	84.55	86.49	83.27	76.06	64.38	45.33	14.82	-30.26
1958.1	96.9(95.6)	89.9	67.90	74.72	80.55	83.61	85.60	82.86	76.44	65.43	47.61	19.21	-22.63
1831.2	95.1(94.6)	88.9	67.95	74.72	79.76	82.65	84.20	81.87	76.35	65.86	49.01	22.26	-17.07
1732.1	96.5(94.9)	88.5	68.15	74.58	79.65	82.04	83.48	81.67	77.26	67.17	51.06	25.60	-11.76
1655.1	95.9(94.3)	87.9	68.26	74.23	79.31	81.46	82.64	80.68	76.72	66.95	51.43	26.94	-8.87
1596.3	95.8(94.1)	87.3	68.72	74.66	78.81	80.91	81.72	79.99	77.04	67.51	52.43	28.72	-5.96
1552.9	95.1(93.4)	86.7	68.36	73.79	78.22	80.44	80.92	79.29	76.13	66.77	52.02	28.88	-4.92
1523.1	94.9(93.1)	86.6	68.05	73.51	77.90	79.90	80.36	79.14	75.92	66.68	52.16	29.40	-3.81
1505.7	94.3(92.5)	86.7	67.47	73.04	77.56	79.10	79.56	79.03	75.37	66.21	51.81	29.28	-3.58
1500.0	93.7(91.9)	85.2	67.68	72.66	77.19	78.56	79.13	78.53	74.65	65.52	51.16	28.71	-4.04
1505.7	93.1(91.4)	84.8	65.92	71.53	76.74	78.30	78.99	77.98	74.07	64.91	50.52	27.99	-4.88
1523.1	92.5(90.8)	84.2	65.82	71.43	76.27	77.65	78.44	77.38	73.44	64.20	49.68	26.92	-6.29
1552.9	91.9(90.2)	83.7	65.44	70.90	75.48	76.84	78.14	76.79	72.92	63.56	48.81	25.67	-8.13
1596.3	91.4(89.7)	83.3	64.04	69.76	75.16	76.27	77.99	76.30	72.36	62.83	47.75	24.05	-10.61
1655.1	90.9(89.2)	82.9	63.21	68.74	74.67	75.82	77.92	75.76	71.76	61.99	46.47	22.00	-13.83

RUN NUMBER	= 254.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 530.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 9.700
VELOCITY RATIO	= .749
PRIMARY VELOCITY (FT/SEC)	= 1384.861
MASS FLOW RATIO	= 6.307
PRIMARY MASS FLOW (LB/SEC)	= .423
THRUST (LBS)	= 104.383
ENVIRONMENTAL TEMPERATURE (R)	= 513.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 64.500
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .100
INSTRUMENTATION NOISE FLOOR (DB)	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.54935E+01	141.9
500	2.29568E-01	123.6
1000	8.86446E-01	129.5
2000	2.36444E+00	133.7
4000	3.31452E+00	135.2
8000	4.05951E+00	136.1
16000	2.86343E+00	134.6
31500	1.77559E+00	132.5

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	161.7
20000	164.7
40000	167.7
80000	170.7

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	103.8	107.8	108.7	107.3	104.6	101.4	97.6	114.1
20.0	102.8	108.1	110.3	109.2	107.9	104.5	100.6	115.8
25.0	101.8	108.0	111.5	110.3	109.1	106.1	102.5	116.7
30.0	99.6	106.2	111.0	111.1	109.3	106.2	103.2	116.6
35.0	97.1	104.3	109.9	112.4	112.5	109.4	105.7	117.8
40.0	95.7	102.2	108.0	110.9	112.3	109.6	105.7	117.0
45.0	93.5	100.3	105.7	109.0	111.2	109.2	105.7	115.8
50.0	91.8	98.8	104.2	106.8	108.9	108.0	105.3	114.1
55.0	90.9	97.8	102.4	105.4	107.6	107.1	105.4	113.1
60.0	91.0	96.7	102.0	104.3	106.3	105.6	104.3	111.9
65.0	90.9	96.3	101.2	103.5	105.0	104.7	103.9	111.0
70.0	90.5	95.7	100.4	102.9	103.9	103.8	103.3	110.2
75.0	90.1	95.5	100.2	102.2	103.2	103.0	102.5	109.6
80.0	89.7	94.6	99.3	101.3	102.4	102.5	102.0	108.8
85.0	89.0	94.3	98.8	101.0	101.8	102.2	101.5	108.4
90.0	88.5	93.9	98.2	100.2	101.3	101.8	101.0	107.9
95.0	88.0	93.6	97.8	99.7	101.1	101.5	100.5	107.5
100.0	87.4	92.7	97.4	99.2	101.3	101.2	100.0	107.2
105.0	86.0	92.3	96.9	98.7	101.2	101.0	99.9	107.0
110.0	86.3	91.6	96.6	98.5	101.7	101.0	99.7	107.0
115.0	85.6	91.0	96.3	98.2	101.8	100.9	99.5	106.9

MODEL THRUST = 104.383 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	36.1	OCTAVE BAND SOUND PRESSURE LEVELS 72.2	144.5	289.0	577.9	1155.9	2275.7	4551.4	9030.5	18060.9	36121.9
5795.6	82.2(82.1)	81.2	71.86	75.83	76.44	73.88	69.28	65.12	63.75	14.71	-35.78	-119.02	-242.92
4385.7	87.8(87.6)	85.1	73.31	78.56	80.57	76.81	75.73	67.88	54.57	31.87	-7.07	-70.79	-145.28
3549.3	91.4(91.1)	87.9	74.18	80.30	83.63	81.88	79.28	72.72	61.46	42.52	10.43	-41.71	-118.75
3000.0	93.6(93.2)	89.3	73.45	80.01	84.63	84.26	81.29	75.13	65.69	49.21	21.63	-22.91	-98.44
2615.2	96.7(96.1)	91.4	72.13	79.25	84.73	86.85	85.85	80.23	70.84	56.11	31.68	-7.53	-85.09
2333.4	97.5(96.8)	91.5	71.67	78.22	83.94	86.43	86.96	81.80	72.48	57.40	37.27	1.96	-64.72
2121.3	97.6(96.7)	91.0	70.30	77.15	82.44	85.34	86.72	82.64	74.55	62.02	41.64	9.27	-57.94
1958.1	96.8(95.7)	89.9	69.30	76.30	81.63	83.94	85.21	82.35	75.48	63.68	44.44	14.52	-29.32
1831.2	96.9(95.7)	89.4	69.02	75.88	80.39	83.12	84.56	82.23	76.58	65.35	47.35	18.99	-22.20
1732.1	96.6(95.3)	88.8	69.63	75.29	80.42	82.54	83.85	81.43	76.40	65.62	48.42	21.44	-17.69
1655.1	96.6(95.2)	88.4	69.90	75.27	80.10	82.17	82.98	81.00	76.67	66.26	49.68	23.76	-13.76
1596.3	96.3(94.9)	87.9	69.83	75.00	79.82	81.82	82.25	80.54	76.59	66.41	50.33	25.23	-11.07
1552.9	96.0(94.5)	87.6	69.68	75.01	79.66	81.61	81.82	80.06	76.15	66.18	50.45	25.95	-9.65
1523.1	95.6(94.1)	87.0	69.43	74.98	78.87	80.97	81.18	79.74	75.69	66.14	50.66	26.57	-8.21
1505.7	95.3(93.8)	86.7	68.78	74.12	78.57	80.67	80.64	79.59	75.61	65.85	50.51	26.66	-7.75
1500.0	94.4(93.3)	86.2	68.34	73.70	77.99	79.68	80.27	79.24	75.16	65.42	50.13	26.36	-7.93
1505.7	94.3(92.8)	85.8	67.80	73.34	77.57	79.16	79.99	79.09	74.63	64.87	49.53	25.68	-8.73
1523.1	93.8(92.3)	85.4	67.16	72.97	76.99	78.64	80.12	78.45	73.97	64.13	48.65	24.56	-10.22
1552.9	93.3(91.8)	84.9	66.59	71.87	76.39	77.91	79.79	78.01	73.54	63.57	47.84	23.34	-12.05
1596.3	92.8(91.4)	84.6	65.57	70.96	75.45	77.43	80.03	77.70	72.99	62.82	46.74	21.64	-14.66
1655.1	92.1(90.7)	84.2	64.42	69.99	75.22	76.47	79.82	77.24	72.22	61.79	45.22	19.31	-18.22

RUN NUMBER	= 255.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 911.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 1.200
VELOCITY RATIO	= .387
PRIMARY VELOCITY (FT/SEC)	= 1177.000
MASS FLOW RATIO	= .503
PRIMARY MASS FLOW (LB/SEC)	= .170
THRUST (LBS)	= 7.425
ENVIRONMENTAL TEMPERATURE (R)	= 539.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.730
ENVIRONMENTAL HUMIDITY (PER CENT)	= 40.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .020
INSTRUMENTATION NOISE FLOOR (DB)	= 55.000

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.84144E-01	125.8
500	1.98195E-03	103.0
1000	1.50403E-02	111.8
2000	8.39722E-02	119.2
4000	1.42992E-01	121.6
8000	9.25285E-02	119.7
16000	3.52234E-02	115.5
31500	1.24009E-02	110.9

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.1
20000	160.1
40000	163.2
80000	166.2

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	83.0	91.8	98.5	99.0	93.0	80.3	71.6	102.7
20.0	81.8	91.8	98.8	99.9	94.8	84.2	75.6	103.5
25.0	80.9	90.3	98.2	100.2	95.4	86.7	79.0	103.5
30.0	79.7	88.8	96.9	99.2	95.7	88.3	81.0	102.7
35.0	77.9	86.9	95.1	98.2	95.7	89.9	83.3	101.8
40.0	76.4	85.0	93.1	96.1	95.5	90.9	85.0	100.6
45.0	73.6	82.8	90.4	93.6	93.8	90.4	85.0	98.7
50.0	71.6	80.3	87.7	90.9	92.1	89.5	84.9	96.8
55.0	70.7	78.0	85.5	89.3	91.0	88.5	84.3	95.5
60.0	69.8	77.0	84.0	87.8	89.6	87.5	83.7	94.2
65.0	69.3	76.1	82.8	86.5	88.3	86.3	82.6	93.0
70.0	68.3	75.5	81.9	85.7	87.2	85.2	81.9	92.0
75.0	68.3	75.3	81.0	84.7	86.0	84.2	81.0	91.0
80.0	68.0	74.1	80.3	83.7	85.0	83.4	80.1	90.0
85.0	67.3	73.8	79.7	83.0	84.4	82.6	79.6	89.4
90.0	66.5	73.2	78.9	82.2	83.9	81.9	79.0	88.8
95.0	66.9	72.3	78.3	81.4	83.0	81.2	78.5	88.0
100.0	66.0	71.9	77.4	80.8	82.4	80.4	77.8	87.3
105.0	65.6	71.4	76.8	80.1	81.6	79.7	77.2	86.6
110.0	65.1	70.9	76.0	79.6	81.0	79.1	76.6	86.0
115.0	65.1	70.3	75.7	78.8	80.3	78.4	76.3	85.4

MODEL THRUST = 7.425 FULL SCALE THRUST = 20000.000

L.	PHOB.		OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 9.6	19.3	38.5	77.1	154.1	308.3	616.9	1213.8	2408.4	4816.8	9633.7
5795.4	76.6(	76.1)	82.2	62.61	71.41	78.02	78.48	72.09	58.47	47.47	38.33	21.87	-8.61	-42.09
4385.7	81.5(	80.6)	85.4	63.44	73.78	80.78	81.85	76.42	65.11	54.73	47.08	33.90	10.10	-31.10
3549.3	84.6(	83.4)	87.2	66.79	74.18	82.06	84.01	78.97	69.65	60.48	53.73	42.48	22.65	-11.26
3000.0	86.8(	85.0)	87.9	64.99	74.10	82.20	84.43	80.78	72.90	64.35	58.17	48.21	30.98	1.85
2615.2	88.3(	86.3)	88.2	64.38	73.39	81.44	84.62	82.04	75.74	68.07	62.30	53.23	37.83	12.05
2333.6	89.3(	86.9)	88.0	63.91	72.47	80.63	83.59	82.78	77.88	70.96	65.49	57.07	43.01	19.68
2121.3	89.9(	86.2)	86.9	61.98	71.13	78.49	81.93	82.60	78.18	71.93	66.69	59.76	45.70	24.23
1958.1	88.7(	85.5)	85.6	60.64	69.37	76.89	79.91	80.94	78.01	72.57	67.50	59.95	47.67	27.61
1831.2	88.6(	85.0)	84.9	60.26	67.93	75.09	78.09	79.46	77.71	72.64	67.78	60.45	48.76	29.81
1732.1	87.9(	84.3)	84.2	59.94	67.13	74.08	77.04	78.54	77.14	72.63	67.88	60.78	49.56	31.48
1655.1	87.2(	83.4)	83.3	59.76	66.57	73.29	77.00	78.45	76.39	71.94	67.21	60.36	49.52	32.10
1596.3	86.7(	82.8)	82.7	59.12	66.28	72.74	76.44	77.90	75.64	71.64	66.95	60.24	49.67	32.77
1552.9	86.3(	82.1)	81.9	59.36	66.37	72.71	75.72	76.91	74.90	71.04	66.40	59.79	49.43	32.90
1523.1	85.2(	81.3)	81.2	59.19	65.35	71.51	74.88	76.09	74.20	70.27	65.66	59.12	48.90	32.63
1505.7	84.7(	80.7)	80.7	58.56	65.08	70.99	74.30	75.62	73.52	69.94	65.34	58.85	48.71	32.59
1500.9	84.0(	80.0)	80.0	57.81	64.43	70.24	73.54	75.11	72.99	69.34	64.75	58.27	48.16	32.09
1505.7	83.3(	79.2)	79.2	58.18	63.65	69.60	72.83	74.19	72.13	68.80	64.20	57.71	47.57	31.65
1523.1	82.6(	78.3)	78.4	57.25	63.09	68.97	71.93	73.45	71.24	67.96	63.35	56.81	46.59	30.32
1552.9	81.8(	77.3)	77.6	56.64	62.44	67.92	71.11	72.49	70.33	67.19	62.54	55.94	45.57	29.05
1596.3	80.9(	76.3)	76.8	55.93	61.64	66.80	70.37	71.68	69.56	66.29	61.60	54.90	44.33	27.42
1655.1	79.8(	75.2)	75.8	55.61	60.83	66.15	69.80	71.05	68.92	65.72	60.97	54.12	43.27	25.86

RUN NUMBER	= 256.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 922.000
SECONDARY TEMPERATURE (R)	= 547.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 1.000
VELOCITY RATIO	= .732
PRIMARY VELOCITY (FT/SEC)	= 1184.133
MASS FLOW RATIO	= 1.176
PRIMARY MASS FLOW (LB/SEC)	= .170
THRUST (LBS)	= 11.638
ENVIRONMENTAL TEMPERATURE (R)	= 541.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.730
ENVIRONMENTAL HUMIDITY (PER CENT)	= 38.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .014
INSTRUMENTATION NOISE FLOOR (DB)	= 54.588

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.75964E-01	125.8
500	4.16672E-03	106.2
1000	2.41554E-02	113.8
2000	9.37775E-02	119.7
4000	1.32212E-01	121.2
8000	7.94970E-02	119.0
16000	3.10359E-02	114.9
31500	1.11195E-02	110.5

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	155.1
20000	158.1
40000	161.1
80000	164.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	85.6	93.4	93.6	96.2	87.9	77.3	73.1	99.9
20.0	84.4	93.1	99.0	98.4	90.7	79.9	74.9	102.7
25.0	84.1	92.3	98.5	98.6	92.4	82.6	77.0	102.7
30.0	82.6	91.0	97.9	99.2	94.3	85.4	78.5	102.8
35.0	81.4	89.2	96.0	98.0	95.0	88.0	81.0	101.8
40.0	78.9	87.0	93.7	96.2	94.7	89.4	82.8	100.4
45.0	77.5	85.1	91.0	94.2	93.8	89.7	84.0	99.1
50.0	75.5	83.0	89.3	92.1	92.6	89.3	84.1	97.5
55.0	74.0	81.1	87.6	90.3	91.1	88.3	84.0	96.0
60.0	73.7	80.0	85.8	88.8	89.8	87.4	83.3	94.7
65.0	72.6	79.4	85.1	87.5	88.5	86.2	82.2	93.6
70.0	76.5	78.5	83.8	86.5	87.5	85.5	81.8	92.7
75.0	71.5	77.8	83.1	85.7	86.5	84.6	81.2	91.8
80.0	71.9	77.2	82.4	84.8	85.6	83.7	80.4	90.9
85.0	70.6	76.9	81.7	84.1	84.9	82.8	79.8	90.3
90.0	69.6	75.8	81.1	83.6	84.4	82.4	79.1	89.7
95.0	70.1	75.2	80.2	82.6	83.7	81.6	78.6	88.9
100.0	69.4	74.8	79.6	81.9	83.2	81.5	78.6	88.5
105.0	68.6	74.5	79.0	81.4	82.5	81.0	78.2	87.9
110.0	67.6	73.5	78.2	80.8	81.8	80.2	77.7	87.2
115.0	68.0	72.6	77.9	80.3	81.6	80.3	77.8	87.0

MODEL THRUST = 11.638 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 12.1	24.1	48.2	96.5	193.0	386.0	759.9	1519.7	3015.3	6030.6	12061.2
5795.6	73.2(72.6)	77.4	63.26	71.07	71.24	73.62	64.87	52.93	45.36	34.32	14.22	-22.62	-85.78
4385.7	79.2(78.5)	82.6	64.51	73.18	79.05	78.30	70.23	58.41	50.90	41.82	25.88	-2.73	-51.26
3549.3	82.5(81.6)	84.5	65.97	74.20	80.42	80.63	73.87	63.28	55.59	47.66	34.19	10.47	-29.38
3000.0	85.0(83.9)	86.0	66.01	74.35	81.27	82.46	77.29	67.75	59.08	51.91	40.06	19.55	-14.59
2615.2	86.6(85.0)	86.2	65.91	73.78	80.51	82.43	79.28	71.69	63.16	56.53	45.82	27.55	-2.60
2333.6	87.5(85.6)	85.8	64.47	72.59	79.22	81.64	79.95	74.18	66.19	59.95	50.06	33.44	6.21
2121.3	87.9(85.6)	85.3	63.87	71.46	78.28	80.48	79.89	75.33	68.44	62.50	53.24	37.85	12.83
1958.1	87.7(85.1)	84.4	62.60	70.10	76.38	79.08	79.45	75.68	69.37	63.65	54.87	40.44	17.11
1831.2	87.3(84.3)	83.5	61.63	68.75	75.23	77.99	78.56	75.31	69.99	64.44	56.04	42.35	20.36
1732.1	86.8(83.7)	82.7	61.80	68.15	73.93	76.84	77.74	74.94	69.88	64.47	56.36	43.25	22.27
1655.1	86.1(82.9)	81.9	61.17	67.55	73.59	76.02	76.85	74.16	69.21	63.91	56.03	43.37	23.19
1596.9	85.3(82.5)	81.4	65.36	67.34	72.63	75.25	75.12	73.77	69.16	63.95	56.24	43.92	24.35
1552.9	85.3(81.8)	80.7	60.56	66.47	72.12	74.71	75.45	73.10	68.90	63.74	56.16	44.09	24.97
1523.1	84.6(81.1)	80.0	61.13	66.69	71.62	73.97	74.65	72.40	68.26	63.15	55.66	43.76	24.95
1505.7	84.0(80.4)	79.5	59.96	66.25	71.06	73.45	74.05	71.67	67.74	62.65	55.21	43.41	24.74
1500.0	83.4(79.9)	78.9	59.03	65.15	70.67	72.92	73.63	71.30	67.08	62.00	54.57	42.82	24.24
1505.7	82.6(79.0)	78.1	57.69	64.47	69.59	71.45	72.86	70.40	66.60	61.51	54.00	42.27	23.64
1523.1	82.3(78.6)	77.6	58.64	64.23	68.64	71.15	72.23	70.20	66.44	61.37	53.87	41.96	23.17
1552.9	81.5(77.9)	76.8	57.64	63.46	68.07	70.41	71.43	69.55	65.81	60.66	53.08	41.01	21.89
1596.9	80.5(76.8)	75.9	56.48	62.33	67.07	69.55	70.50	68.48	65.04	59.82	52.11	39.79	20.22
1655.1	80.1(76.4)	75.4	56.49	61.10	66.41	68.83	69.94	68.25	64.84	59.54	51.66	39.00	19.42

RUN NUMBER	= 257.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 921.000
SECONDARY TEMPERATURE (R)	= 545.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 1.000
VELOCITY RATIO	= .884
PRIMARY VELOCITY (FT/SEC)	= 1183.491
MASS FLOW RATIO	= 1.559
PRIMARY MASS FLOW (LB/SEC)	= .170
THRUST (LBS)	= 14.854
ENVIRONMENTAL TEMPERATURE (R)	= 540.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.730
ENVIRONMENTAL HUMIDITY (PER CENT)	= 61.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .020
INSTRUMENTATION NOISE FLOOR (DB)	= 55.600

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.30888E-01	127.3
500	6.23529E-03	107.9
1000	3.80755E-02	115.8
2000	1.40560E-01	121.5
4000	1.64677E-01	122.2
8000	1.08512E-01	120.4
16000	5.12114E-02	117.1
31500	2.16159E-02	113.3

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	155.5
20000	158.5
40000	161.6
80000	164.6

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	87.6	95.2	99.1	93.3	90.3	83.6	78.7	101.9
20.0	86.9	95.3	99.9	98.2	91.9	85.0	79.8	103.5
25.0	85.4	93.9	99.8	99.3	93.3	86.3	81.8	103.7
30.0	84.1	92.9	99.1	99.5	94.9	88.8	83.1	103.7
35.0	82.8	91.0	97.6	99.1	95.8	89.3	83.8	103.1
40.0	81.2	89.0	95.4	97.5	95.8	90.4	85.1	101.8
45.0	79.1	87.3	93.5	95.4	94.9	90.8	85.7	100.4
50.0	78.0	84.9	91.2	93.7	94.0	91.0	86.7	99.2
55.0	77.0	83.5	89.7	92.0	92.3	90.2	85.9	97.7
60.0	75.1	82.5	88.4	90.9	91.3	89.2	85.6	96.7
65.0	74.3	81.5	87.3	89.6	90.2	88.3	84.9	95.6
70.0	74.5	81.0	86.3	88.5	89.4	87.7	84.5	94.8
75.0	73.8	80.0	85.4	87.9	88.2	86.6	83.6	93.9
80.0	73.8	79.9	85.1	87.2	87.7	86.5	83.6	93.5
85.0	72.9	79.2	84.1	86.4	87.2	85.9	83.1	92.8
90.0	72.7	78.4	83.5	85.6	86.5	85.3	82.8	92.2
95.0	72.3	78.3	82.7	84.9	86.4	85.3	82.5	91.9
100.0	71.4	77.3	82.3	84.7	85.8	84.9	82.4	91.4
105.0	70.7	76.9	81.8	83.9	85.2	84.6	82.4	91.0
110.0	69.8	75.8	81.2	83.6	84.6	83.9	82.0	90.4
115.0	69.6	74.8	80.6	82.9	84.6	84.2	81.5	90.2

MODEL THRUST = 14.854 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE BAND SOUND PRESSURE LEVELS 13.6	27.3	54.5	109.0	218.0	436.0	858.5	1716.9	3406.6	6813.2	13626.3
95.6	73.7(73.0)	78.3	64.14	71.76	75.65	69.61	66.06	57.80	48.95	36.67	14.28	-26.44	-95.32	
85.7	79.8(79.0)	82.3	65.92	74.26	78.70	77.03	70.27	62.15	54.02	44.00	20.33	-5.21	-58.07	
49.3	83.4(82.3)	84.4	66.21	74.73	80.64	80.00	73.64	65.69	58.77	50.09	35.21	9.11	-34.23	
80.0	85.7(84.3)	85.8	66.41	75.26	81.39	81.70	76.74	69.10	62.15	54.35	41.31	18.79	-18.31	
15.2	87.2(85.6)	86.4	66.26	74.89	81.11	82.45	78.97	71.76	64.45	57.26	45.51	25.49	-7.23	
32.6	88.2(86.3)	86.1	65.65	73.50	79.91	81.89	79.81	74.11	67.06	60.32	49.52	31.33	1.90	
21.3	86.5(86.3)	85.5	64.42	72.46	78.43	80.67	79.89	75.28	68.67	62.27	52.18	35.37	8.26	
58.1	85.8(86.2)	84.9	63.99	70.88	77.20	79.62	79.69	76.25	70.61	64.48	54.93	39.19	13.93	
31.2	85.2(85.4)	84.0	63.64	70.10	76.23	78.54	78.68	76.02	70.49	64.56	55.23	40.51	16.70	
32.1	87.9(84.6)	83.5	62.22	69.53	75.47	77.48	78.10	75.53	70.78	65.00	56.21	41.96	19.25	
55.1	87.4(84.3)	82.9	61.82	68.94	74.78	77.02	77.43	75.06	70.53	64.89	56.35	42.58	20.76	
86.3	87.2(83.9)	82.3	62.30	69.41	74.10	76.24	76.93	74.41	70.57	65.02	56.68	43.29	22.14	
52.9	86.5(83.1)	81.7	61.85	68.61	73.65	75.97	76.02	73.99	69.96	64.46	56.26	43.16	22.50	
23.1	86.5(83.1)	81.5	62.02	68.09	73.29	75.30	75.71	74.11	70.14	64.71	56.61	43.70	23.38	
05.7	86.0(82.5)	80.9	61.19	67.59	72.61	74.59	75.26	73.85	69.77	64.36	56.32	43.52	23.40	
80.0	85.5(81.9)	80.3	61.62	66.49	71.84	73.99	74.65	73.01	69.49	64.09	56.07	43.31	23.26	
65.7	85.2(81.7)	79.9	60.57	66.54	71.01	73.17	74.45	72.97	69.11	63.72	55.68	42.88	22.77	
33.1	84.7(81.2)	79.4	59.58	65.69	70.63	72.44	73.91	72.46	68.90	63.46	55.37	42.65	22.14	
52.9	84.2(80.6)	78.7	58.68	64.96	69.79	71.70	73.90	71.99	68.70	63.21	55.02	41.91	21.26	
96.3	83.1(79.7)	77.9	57.64	63.57	68.96	71.35	72.19	71.08	67.87	62.52	54.18	40.79	19.44	
55.1	82.8(79.3)	77.3	57.09	62.31	66.56	70.29	71.40	71.07	67.77	61.57	53.09	39.28	17.65	

RUN NUMBER	= 256.000
AREA POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.H00
PRIMARY TEMPERATURE (R)	= 926.000
SECONDARY TEMPERATURE (R)	= 543.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 2.007
VELOCITY RATIO	= .386
PRIMARY VELOCITY (FT/SEC)	= 1186.099
MASS FLOW RATIO	= 1.036
PRIMARY MASS FLOW (LB/SEC)	= .170
THRUST (LBS)	= 8.775
ENVIRONMENTAL TEMPERATURE (R)	= 542.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.730
ENVIRONMENTAL HUMIDITY (PER CENT)	= 39.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .025
INSTRUMENTATION NOISE FLOOR (DB)	= 57.607

COUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.58412E-01	127.5
500	2.44312E-03	103.9
1000	1.71980E-02	112.4
2000	1.02006E-01	120.1
4000	2.05768E-01	123.1
8000	1.50739E-01	121.8
16000	5.92137E-02	117.7
31500	2.03617E-02	113.1

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.0
20000	161.0
40000	164.1
80000	167.1

EXPERIMENTAL DATA.
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	84.0	93.0	99.2	100.7	97.2	88.5	81.6	104.5
20.0	82.7	91.9	99.4	101.7	98.2	90.3	83.4	105.2
25.0	81.6	90.9	98.9	101.7	98.3	91.1	84.5	105.1
30.0	80.4	89.5	98.1	101.3	98.4	91.8	85.8	104.7
35.0	78.9	87.3	96.3	99.9	98.0	92.7	86.9	103.7
40.0	76.8	85.5	94.1	97.5	97.1	93.0	87.5	102.1
45.0	75.5	83.2	91.3	94.8	95.8	92.8	87.5	100.4
50.0	73.4	81.0	88.6	92.7	94.1	91.6	87.1	98.6
55.0	71.6	79.4	86.6	90.5	92.5	90.6	86.4	97.0
60.0	70.7	77.5	85.1	89.0	91.0	89.4	85.6	95.7
65.0	70.0	76.8	83.5	87.7	89.6	88.0	84.1	94.3
70.0	69.3	76.2	82.8	86.3	88.1	86.5	82.8	92.9
75.0	69.3	75.6	81.9	85.6	87.2	85.5	82.5	92.1
80.0	69.3	75.0	81.0	84.8	86.3	84.9	81.9	91.3
85.0	68.9	74.1	80.2	83.5	85.2	83.6	80.5	90.2
90.0	67.6	74.1	79.7	82.9	84.6	82.9	79.6	89.5
95.0	67.6	73.7	78.8	82.2	83.8	82.1	79.2	88.8
100.0	67.1	72.6	78.3	81.5	82.7	81.0	78.1	87.9
105.0	66.6	72.1	77.5	80.9	82.3	80.4	77.7	87.3
110.0	65.5	71.5	76.8	80.2	81.6	79.8	77.4	86.6
115.0	65.5	70.5	76.2	79.4	80.9	78.8	76.6	85.9

MODEL THRUST = 8.775 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS									
			10.5	20.9	41.9	83.8	167.6	335.1	669.8	1339.6	2618.2	5236.4	10472.9
5795.6	80.6(79.8)	83.2	62.84	71.87	78.01	79.37	75.55	65.75	56.14	46.35	28.62	-4.11	-61.06
4385.7	84.7(83.6)	86.3	63.99	73.15	80.70	82.92	79.12	70.35	61.41	53.27	39.13	13.63	-30.20
3549.3	87.2(85.8)	88.0	64.72	73.99	81.99	84.72	81.09	73.28	64.93	57.77	45.75	24.55	-11.49
3000.0	89.2(87.5)	89.2	65.00	74.05	82.64	85.83	82.73	75.56	68.13	61.61	50.99	32.60	1.68
2615.2	90.1(88.3)	89.3	64.72	73.12	82.03	85.81	83.56	77.76	70.66	64.61	54.97	38.56	11.21
2333.6	90.7(88.3)	88.7	63.61	72.29	80.49	84.14	83.62	79.15	72.53	66.79	57.86	42.49	18.17
2121.3	90.7(88.0)	87.8	63.08	70.80	78.67	82.35	83.26	79.79	73.52	68.03	59.64	45.76	23.01
1958.1	90.1(87.3)	86.7	61.69	69.31	76.92	80.93	82.20	79.39	73.96	68.64	60.67	47.62	26.39
1831.2	89.4(86.6)	85.7	60.45	68.31	75.84	79.36	81.21	78.93	73.94	68.79	61.14	48.75	28.79
1732.1	88.5(85.8)	84.9	60.02	66.86	74.47	78.32	80.24	78.32	73.67	68.64	61.24	49.36	30.23
1655.1	88.1(85.4)	83.9	59.79	66.41	73.28	77.40	79.26	77.25	72.46	67.72	60.51	49.02	30.61
1586.3	87.5(83.7)	82.9	59.36	66.23	72.47	76.35	78.04	76.17	71.65	66.78	59.73	48.54	30.68
1532.9	86.9(83.0)	82.3	59.58	65.91	72.21	75.84	77.37	75.34	71.66	66.84	59.89	48.92	31.47
1523.1	86.3(82.5)	81.7	59.75	65.67	71.50	75.27	76.65	74.91	71.13	66.34	59.47	48.66	31.48
1505.7	85.7(81.9)	80.8	59.48	64.70	70.75	73.99	75.69	73.78	69.95	65.19	58.36	47.64	30.62
1530.6	84.9(80.7)	80.0	58.22	64.76	70.26	73.63	75.09	73.07	69.08	64.32	57.51	46.81	29.85
1505.7	83.7(79.8)	79.2	58.19	64.24	69.37	72.75	74.21	72.22	68.66	63.88	57.05	46.33	29.51
1523.1	82.4(78.5)	78.4	57.62	62.84	68.81	71.98	73.00	71.07	67.46	62.67	55.00	44.99	27.61
1532.9	81.4(77.7)	77.5	56.95	62.38	67.81	71.03	72.48	70.13	66.80	61.98	55.03	44.66	26.81
1598.7	80.7(76.8)	76.8	56.63	61.54	66.15	70.21	71.14	69.47	66.28	61.41	54.35	43.16	25.30
1559.1	79.4(75.5)	75.5	55.31	60.25	64.95	69.14	70.54	68.13	65.14	60.20	53.00	41.91	23.10

RUN NUMBER	= 250.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 927.000
SECONDARY TEMPERATURE (R)	= 540.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 2.007
VELOCITY RATIO	= .730
PRIMARY VELOCITY (FT/SEC)	= 1187.349
MASS FLOW RATIO	= 2.335
PRIMARY MASS FLOW (LB/SEC)	= .170
THRUST (LBS)	= 16.950
ENVIRONMENTAL TEMPERATURE (R)	= 542.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.730
ENVIRONMENTAL HUMIDITY (PER CENT)	= 37.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .028
INSTRUMENTATION NOISE FLOOR (DB)	= 58.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	9.84756E-01	129.6
500	6.08871E-03	107.8
1000	3.29157E-02	115.9
2000	1.63630E-01	122.1
4000	3.10007E-01	124.9
8000	2.47647E-01	123.9
16000	1.02168E-01	120.1
31500	3.63001E-02	115.6

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.3
20000	160.3
40000	163.3
80000	166.3

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	87.5	95.1	99.5	100.2	97.0	89.0	82.6	104.7
20.0	82.2	94.6	100.6	102.0	98.7	91.1	84.7	106.0
25.0	85.5	93.7	100.7	103.3	100.3	93.0	86.8	106.9
30.0	84.4	92.5	99.8	102.9	100.4	94.3	88.5	106.6
35.0	82.7	91.0	97.8	101.7	100.1	94.6	89.0	105.6
40.0	81.1	89.1	96.4	99.8	99.5	95.4	90.2	104.5
45.0	79.5	87.5	93.9	97.4	97.9	94.7	89.9	102.7
50.0	77.7	85.6	92.1	95.4	96.3	93.9	89.4	101.2
55.0	76.8	84.6	90.2	93.2	94.7	92.5	88.3	99.5
60.0	76.1	83.3	89.1	92.3	93.5	91.6	87.2	98.5
65.0	75.7	82.6	87.9	91.0	92.2	90.3	86.5	97.2
70.0	76.3	81.8	87.1	90.1	91.1	89.3	85.9	96.3
75.0	75.0	81.5	86.6	89.0	90.1	88.2	84.7	95.3
80.0	74.8	81.1	86.0	88.1	89.4	87.6	84.0	94.6
85.0	73.9	80.5	85.6	87.7	88.6	86.8	83.5	94.0
90.0	74.1	80.2	84.8	87.1	88.3	86.4	83.2	93.6
95.0	73.6	79.6	84.1	86.3	87.6	85.7	82.3	92.8
100.0	72.5	79.6	83.9	85.7	87.1	85.7	82.5	92.5
105.0	72.3	79.1	83.5	85.0	86.4	85.0	82.2	91.9
110.0	71.0	77.8	82.9	84.8	86.4	85.1	82.0	91.7
115.0	71.3	76.8	82.6	84.2	86.3	84.6	81.3	91.2

MODEL THRUST = 16.950 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 14.6	29.1	58.2	116.4	232.9	465.8	917.9	1834.1	3639.8	7278.1	14556.1
5795.6	78.9(78.4)	80.3	63.47	71.12	75.48	75.97	72.11	62.36	51.73	38.72	15.00	-27.95	-100.06
5585.7	83.9(83.9)	84.1	60.62	72.98	78.94	80.25	76.49	67.54	57.86	47.29	28.60	-4.63	-59.92
5540.3	87.5(86.5)	86.9	65.82	75.95	80.91	83.35	80.04	71.66	62.83	53.70	38.00	10.54	-34.78
5000.0	89.5(88.2)	88.0	66.10	74.27	81.48	84.49	81.63	74.70	66.65	58.47	44.74	21.06	-17.71
4615.2	90.2(89.0)	88.2	65.67	73.96	80.65	84.48	82.66	76.33	68.83	61.31	48.96	27.93	-6.25
4333.6	91.3(89.5)	88.1	64.94	72.99	80.30	83.56	83.06	78.28	71.36	64.35	53.08	33.91	3.09
4121.3	91.1(88.8)	87.1	64.27	72.27	78.62	82.01	82.31	78.47	72.13	65.47	56.88	37.26	8.97
3958.1	90.7(88.1)	86.3	63.09	71.02	77.49	80.76	81.48	78.41	72.48	66.10	58.18	39.60	13.25
3831.2	89.9(87.1)	85.2	62.83	73.66	76.17	79.16	80.46	77.68	72.17	66.01	58.96	40.84	16.01
3737.1	89.4(86.5)	84.7	62.58	69.83	75.55	78.76	79.87	77.30	71.68	65.69	58.50	41.56	17.91
3659.1	88.7(85.6)	83.8	62.54	69.49	74.79	77.83	78.84	76.45	71.42	65.57	58.65	42.24	19.50
3598.3	88.2(85.0)	83.2	63.08	69.99	74.31	77.25	78.03	75.78	71.20	65.44	58.74	42.73	20.70
3552.9	87.8(84.2)	82.5	62.50	69.91	74.08	76.34	77.32	74.96	70.26	64.58	58.82	42.32	20.80
3523.1	86.9(83.7)	82.0	62.45	69.74	73.62	75.69	76.79	74.52	69.83	64.21	58.76	42.26	21.10
3505.7	86.3(83.1)	81.5	61.41	69.25	73.27	75.35	76.07	73.87	69.47	63.82	58.64	42.04	21.10
3500.0	86.0(82.7)	81.0	61.89	67.91	72.58	74.73	75.81	73.50	69.18	63.59	58.23	41.89	21.00
3505.7	85.2(81.9)	80.3	61.36	67.29	71.76	73.91	75.10	72.78	68.24	62.84	58.28	40.88	19.92
3523.1	84.9(81.6)	79.9	60.17	67.25	71.68	73.58	74.47	72.47	68.28	62.65	58.28	40.78	19.54
3552.9	84.1(80.7)	79.1	59.71	66.52	70.93	72.17	73.68	71.74	67.78	62.08	58.52	39.82	18.30
3598.3	83.7(80.4)	78.6	58.18	65.04	70.09	71.49	73.33	71.58	67.30	61.55	58.84	38.84	16.80
3659.1	82.7(79.5)	77.8	58.21	63.60	68.89	71.00	72.84	70.74	66.24	60.38	58.46	37.05	14.32

RUN NUMBER	= 260.000
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 9.400
PRIMARY TEMPERATURE (R)	= 922.000
SECONDARY TEMPERATURE (R)	= 543.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 2.007
VELOCITY RATIO	= .881
PRIMARY VELOCITY (FT/SEC)	= 1164.133
MASS FLOW RATIO	= 3.022
PRIMARY MASS FLOW (LB/SEC)	= .170
THRUST (LBS)	= 22.902
ENVIRONMENTAL TEMPERATURE (R)	= 539.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.730
ENVIRONMENTAL HUMIDITY (PER CENT)	= 43.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .036
INSTRUMENTATION NOISE FLOOR (DB)	= 60.584

USTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.80213E+00	132.6
500	1.18279E-02	110.7
1000	7.07385E-02	118.5
2000	2.87194E-01	124.6
4000	5.51338E-01	127.4
8000	5.23535E-01	127.2
16000	2.57430E-01	124.1
31500	1.00063E-01	120.0

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	159.0
20000	162.0
40000	165.0
80000	168.0

EXPERIMENTAL DATA.
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	90.0	97.0	100.7	100.8	98.3	93.5	87.3	106.0
20.0	89.1	97.0	102.0	103.0	101.3	95.7	89.7	107.8
25.0	88.0	96.0	102.5	104.5	102.6	96.8	91.2	108.7
30.0	85.9	94.6	101.6	104.9	103.3	97.7	92.0	108.9
35.0	85.3	93.4	100.7	104.6	103.6	98.6	93.0	108.7
40.0	83.6	91.6	98.9	102.5	102.7	98.9	93.6	107.6
45.0	81.7	90.1	97.0	100.5	101.2	98.4	93.9	106.0
50.0	80.9	88.6	95.1	98.4	99.4	97.4	93.2	104.4
55.0	79.3	87.3	93.4	97.0	98.4	96.5	92.6	103.2
60.0	79.0	86.6	92.4	95.4	96.9	95.2	91.6	101.9
65.0	78.3	85.9	91.3	94.4	95.8	94.1	90.5	100.8
70.0	78.4	86.4	91.1	93.9	95.0	93.2	89.8	100.1
75.0	77.9	86.9	90.3	92.5	93.7	92.5	89.6	99.2
80.0	77.9	84.7	90.0	92.1	93.0	91.5	88.4	98.5
85.0	77.0	84.4	89.3	91.5	92.8	91.4	88.2	98.1
90.0	76.8	83.7	89.0	91.1	92.4	90.9	87.9	97.7
95.0	76.6	83.6	88.2	90.5	91.9	90.8	88.2	97.4
100.0	75.9	83.0	87.9	89.5	91.0	90.4	87.8	96.7
105.0	75.4	82.7	87.9	89.3	91.1	91.5	88.9	97.1
110.0	74.5	81.4	87.2	89.3	90.9	90.9	88.2	96.7
115.0	74.3	80.3	86.5	88.9	91.2	91.2	88.5	96.7

MODEL THRUST = 22.902 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 16.9	33.8	67.7	135.4	270.7	541.4	1065.9	2131.9	4230.0	8459.9	16919.8
5795.6	79.8(79.2)	80.1	64.67	71.71	75.34	76.12	71.87	64.94	53.60	38.75	11.69	-36.70	-116.48
4385.7	85.6(84.8)	84.4	66.21	74.07	79.01	79.87	77.55	70.31	60.41	48.44	27.23	-10.11	-71.22
3549.3	89.2(88.2)	87.3	66.95	74.98	81.39	83.23	80.89	73.71	64.95	54.69	36.96	-6.16	-43.86
3000.0	91.4(90.2)	88.9	66.34	75.05	81.93	85.14	83.16	76.41	68.10	58.96	43.51	17.02	-25.73
2615.2	93.1(91.6)	89.9	66.88	74.97	82.30	86.02	84.68	78.69	70.78	62.43	48.57	25.09	-12.56
2333.6	93.6(91.9)	89.8	66.20	74.21	81.43	85.37	84.88	80.17	72.79	65.02	52.33	31.06	-2.86
2121.3	93.5(91.4)	89.0	65.09	73.54	80.38	83.79	84.21	80.66	74.25	66.91	55.11	35.19	4.39
1958.1	92.9(90.5)	88.0	64.99	72.74	79.20	82.44	83.13	80.45	74.48	67.47	56.34	38.01	9.07
1831.2	92.6(90.1)	87.4	64.04	72.01	78.08	81.56	82.77	80.18	74.60	67.85	57.25	39.91	12.65
1732.1	91.9(89.2)	86.6	64.18	71.83	77.56	80.52	81.80	79.42	74.26	67.71	57.52	40.96	15.01
1656.1	91.4(88.6)	86.0	63.85	71.52	76.88	79.93	81.02	78.72	73.67	67.28	57.41	41.45	16.53
1596.3	91.1(88.2)	85.6	64.35	71.32	76.94	79.67	80.55	78.21	73.34	67.08	57.45	41.95	17.80
1552.9	90.5(87.4)	84.9	64.02	71.02	76.37	78.58	79.57	77.72	73.48	67.30	57.85	42.69	19.12
1521.1	89.4(86.9)	84.4	64.19	71.00	76.32	78.33	79.04	76.92	72.49	66.37	57.05	42.12	18.94
1505.7	89.7(86.7)	84.2	63.46	70.80	75.89	77.85	78.48	76.91	72.42	66.34	57.08	42.29	19.34
1500.0	89.3(86.3)	83.8	63.27	70.12	75.47	77.42	78.59	76.46	72.15	66.08	56.85	42.11	19.23
1505.7	89.0(85.9)	83.5	63.02	69.98	74.82	76.78	78.03	76.39	72.42	66.34	57.08	42.29	19.34
1523.1	88.3(85.2)	82.8	62.30	69.12	74.13	75.75	77.05	76.87	71.88	65.76	56.44	41.51	18.33
1552.9	88.9(85.6)	82.8	61.52	68.79	73.94	75.34	76.98	76.73	72.76	66.58	57.13	41.97	18.40
1596.3	88.0(84.8)	82.1	60.46	67.95	73.06	75.10	76.46	75.93	71.78	65.51	55.88	40.38	16.24
1655.1	87.7(84.6)	81.8	59.85	69.90	72.07	74.35	76.51	75.82	71.87	65.29	55.42	39.48	14.53

RUN NUMBER	= 261.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 924.000
SECONDARY TEMPERATURE (R)	= 550.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 4.856
VELOCITY RATIO	= .382
PRIMARY VELOCITY (FT/SEC)	= 1185.417
MASS FLOW RATIO	= 2.449
PRIMARY MASS FLOW (LB/SEC)	= .173
THRUST (LBS)	= 13.077
ENVIRONMENTAL TEMPERATURE (R)	= 542.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.720
ENVIRONMENTAL HUMIDITY (PER CENT)	= 36.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .010
INSTRUMENTATION NOISE FLOOR (DB)	= 54.588

OUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.14764E-01	125.0
500	4.45902E-03	106.5
1000	2.66376E-02	114.3
2000	8.93605E-02	119.5
4000	1.03246E-01	120.1
8000	6.17872E-02	117.9
16000	2.21821E-02	113.5
31500	7.09176E-03	108.5

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	153.8
20000	156.8
40000	159.8
80000	162.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	86.9	94.7	98.4	95.9	86.4	71.6	69.1	101.7
20.0	85.5	93.8	98.7	97.6	90.0	76.8	71.1	102.3
25.0	84.3	92.9	98.3	98.3	92.4	81.6	73.6	102.5
30.0	83.1	91.3	97.1	98.0	93.7	85.1	77.1	102.0
35.0	81.0	89.6	95.7	97.2	94.5	87.6	80.3	101.3
40.0	79.3	87.3	93.4	94.8	94.0	89.1	82.5	99.7
45.0	77.4	85.1	91.0	92.6	92.8	89.1	83.4	98.0
50.0	76.2	82.9	88.5	90.5	91.2	88.2	82.9	96.3
55.0	75.1	81.2	86.5	89.0	89.6	86.7	82.0	94.7
60.0	73.5	79.2	85.0	87.4	88.2	85.7	81.5	93.3
65.0	72.8	78.9	83.7	86.0	87.0	84.4	80.2	92.1
70.0	72.1	78.1	82.7	85.1	85.8	83.1	79.4	91.0
75.0	71.9	77.2	82.1	84.1	84.8	82.2	78.6	90.1
80.0	71.0	76.9	81.3	83.2	83.8	81.3	77.3	89.2
85.0	71.0	76.5	80.6	82.7	83.2	80.6	77.1	88.6
90.0	70.6	75.6	79.7	81.5	82.1	79.5	76.4	87.6
95.0	69.6	75.2	79.0	81.0	81.3	78.8	75.5	86.9
100.0	69.1	74.6	78.6	80.1	80.7	78.4	75.3	86.4
105.0	68.6	73.7	77.7	79.4	80.0	77.4	74.6	85.6
110.0	68.0	72.8	77.0	79.0	79.4	77.0	74.4	85.0
115.0	68.0	72.4	76.6	78.5	78.7	76.2	74.1	84.5

MODEL THRUST = 13.077 FULL SCALE THRUST = 40000.000

L.	PNDB.		OASPL		OCTAVE BAND SOUND PRESSURE LEVELS 9.0	18.1	36.2	72.3	144.6	289.3	569.6	1139.1	2260.1	4520.3	9040.6
5795.6	73.7	73.0	81.8	67.01	74.89	78.47	75.94	66.18	50.42	45.68	37.01	21.46	-7.41	-58.38	
4385.7	78.9	78.1	84.8	68.07	76.33	81.25	80.13	72.21	58.42	51.00	43.70	31.21	8.63	-30.65	
3549.3	82.6	81.6	86.8	68.67	77.27	82.73	82.64	76.55	65.19	55.85	49.37	38.69	19.85	-12.51	
3000.0	85.3	83.9	87.8	68.96	77.20	82.98	83.80	79.40	70.26	61.17	55.23	45.73	29.34	1.53	
2615.2	87.4	85.6	88.2	68.88	76.62	82.74	84.17	81.35	74.07	65.75	60.19	51.52	36.85	12.22	
2333.4	89.3	86.1	87.7	67.40	75.38	81.46	82.64	81.84	76.67	69.12	63.84	55.78	42.37	20.06	
2121.3	88.5	85.7	86.3	64.27	73.96	79.83	81.44	81.52	77.54	71.00	65.93	58.33	45.87	25.32	
1958.1	88.1	85.1	85.7	65.73	72.43	78.07	80.05	80.60	77.39	71.26	66.34	59.10	47.36	28.16	
1831.2	87.4	84.1	84.7	65.29	71.32	76.64	79.07	79.63	76.42	71.03	66.24	59.27	48.10	29.95	
1732.1	86.9	83.5	83.9	64.14	69.99	75.65	78.04	78.73	75.96	71.04	66.35	59.60	48.87	31.54	
1656.1	86.1	82.5	83.0	63.85	69.92	74.71	76.99	77.91	75.09	70.18	65.56	58.99	48.59	31.90	
1596.3	85.3	81.6	82.3	63.43	69.45	74.00	76.39	77.01	74.07	69.73	65.17	58.71	48.59	32.38	
1552.9	84.7	80.9	81.7	63.47	68.43	73.68	75.71	76.24	73.43	69.27	64.75	58.38	48.45	32.41	
1523.1	83.9	80.1	80.9	62.81	68.65	73.01	74.96	75.46	72.71	68.14	63.65	57.35	47.55	31.95	
1505.7	83.4	79.6	80.5	62.91	68.39	72.45	74.51	74.91	72.12	67.07	63.60	57.34	47.62	32.16	
1500.0	82.4	78.5	79.5	62.50	67.92	71.67	73.38	73.93	71.07	67.35	62.88	56.63	46.94	31.53	
1505.7	81.6	77.7	78.8	61.50	67.07	70.45	72.82	73.02	70.31	66.49	62.01	55.75	46.03	30.58	
1523.1	81.0	77.1	78.1	60.97	66.39	70.32	71.82	72.60	69.42	66.16	61.67	55.37	45.57	29.97	
1552.9	79.9	75.9	77.1	60.14	65.25	69.24	70.94	71.48	69.67	65.28	60.75	54.39	44.46	28.62	
1596.3	79.1	75.1	76.4	59.31	64.12	68.37	70.32	70.63	67.97	64.77	60.20	53.74	43.62	27.42	
1655.1	78.2	74.1	75.5	58.99	63.42	67.66	69.60	69.46	69.93	64.19	59.94	52.96	42.57	25.88	

RUN NUMBER	= 263.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 920.000
SECONDARY TEMPERATURE (R)	= 545.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 4.856
VELOCITY RATIO	= .384
PRIMARY VELOCITY (FT/SEC)	= 1182.848
MASS FLOW RATIO	= 7.955
PRIMARY MASS FLOW (LB/SEC)	= .168
THRUST (LBS)	= 49.673
ENVIRONMENTAL TEMPERATURE (R)	= 536.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.710
ENVIRONMENTAL HUMIDITY (PER CENT)	= 44.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .040
INSTRUMENTATION NOISE FLOOR (DB)	= 61.577

OUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.350926+00	133.7
500	6.408776-02	118.1
1000	2.426956-01	123.9
2000	5.888616-01	127.7
4000	6.615576-01	128.2
8000	4.453736-01	126.5
16000	2.436496-01	123.9
31500	1.046986-01	120.2

OVERALL SOUND POWER LEVEL+SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	156.8
20000	159.8
40000	162.8
80000	165.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.4	103.6	103.2	99.8	93.5	89.8	85.6	108.1
20.0	97.6	103.0	104.4	101.6	96.2	91.5	87.3	108.7
25.0	96.0	102.1	104.8	102.0	97.5	92.6	88.2	108.7
30.0	94.7	100.3	104.4	102.9	98.8	94.4	89.7	108.6
35.0	92.7	98.9	103.3	103.2	99.8	95.5	90.8	108.2
40.0	89.9	96.8	101.9	102.6	100.5	96.6	92.2	107.5
45.0	88.6	94.9	100.3	101.5	100.5	97.4	93.0	106.8
50.0	86.4	93.2	98.9	100.7	100.0	97.4	93.6	106.0
55.0	85.2	91.8	97.5	99.6	99.1	96.6	93.3	105.0
60.0	84.5	91.1	96.7	98.7	98.0	95.8	93.0	104.1
65.0	84.2	90.4	96.1	98.2	97.3	95.2	92.2	103.5
70.0	83.7	89.5	95.1	97.4	96.5	94.3	91.5	102.6
75.0	83.8	88.8	94.3	96.7	95.7	93.9	90.8	102.0
80.0	.8	88.2	93.9	96.2	95.5	93.4	90.0	101.5
85.0	82.5	87.6	93.1	95.7	95.0	93.0	89.5	101.0
90.0	81.6	86.8	92.6	95.5	94.5	92.7	89.1	100.6
95.0	81.7	86.4	92.1	95.0	94.1	92.5	88.7	100.2
100.0	81.0	85.8	91.8	95.2	93.9	92.2	88.5	100.1
105.0	80.1	85.6	91.5	94.7	93.7	92.0	88.2	99.8
110.	82.1	84.7	91.5	94.2	93.5	91.9	88.0	99.5
115.0	79.6	84.2	91.4	94.5	93.4	91.9	87.8	99.5

MODEL THRUST = 49.673 FULL SCALE THRUST = 20000.000

L;	PNDB;	OASPL	24.9	OCTAVE BAND SOUND PRESSURE LEVELS 49.8	99.7	199.3	398.7	797.4	1569.8	3139.7	6229.5	12459.1	24918.2
795.6	77.0(76.8)	79.1	69.75	74.88	74.37	70.45	62.73	55.46	43.02	22.05	-15.50	-80.16	-181.55
385.7	81.9(81.6)	82.1	71.33	76.75	78.03	74.85	68.37	60.99	50.49	33.89	4.75	-44.91	-122.37
549.3	84.8(84.2)	84.0	71.64	77.72	80.24	77.21	71.86	64.75	55.30	41.29	17.13	-23.63	-86.88
000.0	87.2(86.5)	85.3	71.75	77.34	81.35	79.62	74.76	68.55	59.53	47.23	26.34	-8.57	-62.50
615.2	89.0(88.1)	86.0	70.98	77.09	81.46	81.17	77.11	71.21	62.81	51.70	33.11	2.29	-45.11
333.6	90.1(89.0)	86.3	69.16	76.04	81.08	81.55	78.87	73.59	65.79	55.55	38.64	10.82	-31.80
121.3	91.0(89.7)	86.2	68.68	74.98	80.30	81.32	79.83	75.35	67.95	58.37	42.72	17.14	-21.86
958.1	91.5(89.9)	86.1	67.19	73.94	79.63	81.23	80.06	76.27	69.67	60.60	45.92	22.09	-14.15
831.8	91.3(89.6)	85.7	66.53	73.18	78.78	80.74	79.79	76.15	70.25	61.57	47.65	25.17	-8.92
732.1	91.1(89.3)	85.3	66.32	72.88	78.46	80.29	79.23	75.98	70.71	62.34	49.01	27.59	-4.82
658.1	90.9(89.1)	85.1	66.40	72.63	78.23	80.23	78.97	75.84	70.61	62.27	49.61	28.90	-2.30
598.3	90.5(88.5)	84.6	66.27	72.01	77.55	79.73	78.43	75.32	70.19	62.24	49.72	29.74	-.36
552.9	90.1(88.1)	84.2	66.62	71.61	77.07	79.34	77.93	75.17	69.89	62.07	49.82	30.30	.93
523.1	89.8(87.9)	83.9	65.73	71.16	76.76	79.01	77.90	74.85	69.25	61.53	49.45	30.24	1.39
505.7	89.4(87.5)	83.4	65.57	70.60	76.07	78.53	77.51	74.60	68.92	61.25	49.27	30.25	1.69
500.0	89.0(87.0)	83.1	64.64	69.91	75.59	78.37	77.03	74.30	68.57	60.91	48.97	30.01	1.55
505.7	88.6(86.6)	82.6	64.76	69.45	75.05	77.83	76.61	74.09	68.10	60.43	48.45	29.44	.87
523.1	88.2(86.3)	82.4	63.91	69.71	74.74	77.96	76.29	73.68	67.74	60.02	47.94	28.73	-.12
552.9	87.8(85.8)	81.9	62.93	68.35	74.25	77.34	75.93	73.24	67.28	59.46	47.20	27.68	-1.68
594.3	87.2(85.4)	81.4	64.66	67.20	73.96	76.51	75.45	72.90	66.71	58.76	46.24	26.26	-3.84
665.1	86.7(84.9)	81.1	61.85	66.44	73.59	76.46	75.02	72.52	66.02	57.88	45.02	24.41	-6.69

RUN NUMBER	= 204.000
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 925.000
SECONDARY TEMPERATURE (R)	= 547.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 4.788
VELOCITY RATIO	= .381
PRIMARY VELOCITY (FT/SEC)	= 1186.058
MASS FLOW RATIO	= 5.438
PRIMARY MASS FLOW (LB/SEC)	= .168
THRUST (LBS)	= 19.052
ENVIRONMENTAL TEMPERATURE (R)	= 540.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.670
ENVIRONMENTAL HUMIDITY (PER CENT)	= 38.000
CALIBRATION FACTOR (HY TO 01/3D CNT)	= .025
INSTRUMENTATION NOISE FLOOR (DB)	= 57.607

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.628896E-01	128.2
500	4.708316-03	106.7
1000	2.295449E-02	113.6
2000	1.036286-01	120.2
4000	2.249096E-01	123.5
8000	1.944036-01	122.9
16000	8.509586E-02	119.3
31500	2.751786-02	114.4

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	155.4
20000	158.4
40000	161.4
80000	164.4

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	85.7	92.2	99.3	97.9	94.2	86.0	80.0	102.2
20.0	84.8	92.5	98.8	100.9	97.3	90.0	83.3	104.6
25.0	83.9	91.7	99.0	102.0	98.9	92.5	86.0	105.5
30.0	82.4	90.0	98.0	101.6	99.8	94.8	89.0	105.5
35.0	81.5	88.7	96.6	100.9	100.2	95.8	89.1	105.2
40.0	79.9	87.3	94.2	98.4	99.8	95.1	89.6	103.4
45.0	78.8	86.8	91.7	95.8	97.1	94.5	89.3	101.6
50.0	77.4	83.6	89.7	93.9	95.3	93.1	88.7	99.9
55.0	76.2	82.0	87.7	91.7	93.9	92.2	87.5	98.4
60.0	75.5	80.8	86.4	90.3	92.1	90.3	86.0	96.8
65.0	74.5	79.9	85.3	89.2	90.8	89.1	85.1	95.6
70.0	74.3	79.4	84.4	88.0	89.6	87.7	84.1	94.4
75.0	73.4	78.9	83.4	86.9	88.3	86.7	82.9	93.3
80.0	73.2	78.5	83.0	86.0	87.2	85.5	81.9	92.4
85.0	72.7	77.9	82.1	84.9	86.2	84.0	80.3	91.2
90.0	71.9	77.6	81.7	84.1	85.5	83.3	80.0	90.6
95.0	71.9	77.0	81.1	83.3	84.3	82.2	79.0	89.6
100.0	71.0	76.7	80.4	82.6	83.6	81.4	78.3	88.9
105.0	70.0	75.4	79.7	81.9	82.7	80.8	77.9	88.2
110.0	69.6	74.8	78.8	81.3	81.9	79.8	77.2	87.4
115.0	69.6	74.1	78.6	80.8	81.3	79.0	76.6	86.9

MODEL THRUST = 19.052 FULL SCALE THRUST = 20000.000

L+	PNDB+	OASPL	15.4	OCTAVE 30.9	BAND 61.7	SOUND 123.5	PRESSURE 246.9	LEVELS 493.8	972.2	1944.4	3858.0	7716.0	15432.1
5795.6	75.6(75.0)	77.4	61.17	67.70	72.70	73.14	68.75	58.63	48.00	34.31	9.33	-35.67	-110.70
4385.7	81.9(81.2)	82.1	62.99	70.61	76.67	78.39	74.49	65.78	55.58	44.69	24.86	-9.93	-67.48
3549.3	85.8(84.8)	84.9	63.66	71.44	78.70	81.59	78.08	70.52	61.18	51.63	38.17	6.45	-80.66
3000.0	88.9(87.1)	86.3	63.59	71.20	79.10	82.80	80.50	74.53	66.36	57.03	43.45	18.71	-21.97
2615.2	90.1(88.6)	87.2	63.91	71.13	79.03	83.21	82.20	76.60	68.18	60.36	47.44	25.49	-10.01
2333.6	90.2(89.2)	88.4	63.20	70.79	77.90	81.93	81.81	77.33	70.04	62.73	50.48	30.91	-1.03
2121.3	89.8(87.5)	85.4	63.04	69.04	75.93	79.94	81.02	77.67	70.83	63.91	52.87	34.50	5.13
1958.1	89.1(86.6)	84.4	62.38	68.52	74.82	78.71	79.85	77.05	71.15	64.56	54.11	36.92	9.58
1831.2	88.4(85.7)	83.8	61.69	67.50	73.15	77.10	79.06	76.79	70.67	64.29	54.35	38.07	12.32
1732.1	87.3(84.5)	82.3	61.47	66.80	72.30	76.17	77.79	75.41	69.76	63.56	53.99	38.44	13.91
1655.1	86.7(83.7)	81.6	60.49	66.30	71.70	75.48	76.95	74.63	69.34	63.32	54.05	39.05	15.48
1596.3	85.9(83.0)	80.8	60.29	66.13	71.34	74.98	76.04	73.81	68.79	62.89	53.80	39.23	16.39
1552.9	85.0(81.9)	79.9	60.34	65.86	70.36	73.75	75.01	72.86	67.86	62.00	53.11	38.86	16.56
1523.1	84.1(81.0)	79.2	60.27	65.53	70.04	72.98	74.05	71.89	67.10	61.25	52.51	38.47	16.54
1505.7	83.0(79.9)	78.1	59.87	65.16	69.31	72.03	73.13	70.48	65.81	59.93	51.12	37.21	15.49
1500.0	82.4(79.2)	77.5	59.10	64.89	68.92	71.26	72.46	69.91	65.28	59.52	50.83	36.96	15.32
1505.7	81.2(78.3)	76.6	59.07	64.22	68.34	70.42	71.24	69.64	64.27	58.49	49.78	35.87	14.15
1523.1	80.3(77.1)	75.8	58.09	63.19	67.32	69.32	70.46	67.78	63.50	57.69	49.42	34.88	12.95
1552.9	79.3(76.1)	74.8	56.93	62.14	66.58	68.76	69.40	66.77	62.84	56.97	48.08	33.83	11.53
1596.3	78.1(75.0)	73.8	56.34	61.49	65.48	67.93	68.30	65.75	61.81	55.86	46.81	32.74	9.40
1655.1	77.1(74.0)	72.9	56.03	60.51	65.01	67.06	67.40	64.58	60.89	54.84	45.56	30.57	7.00

RUN NUMBER	265.00 (750,000)
AXIAL POSITION OF PRIMARY RT. SECONDARY (INS.)	9.800
PRIMARY TEMPERATURE (R)	923.000
SECONDARY TEMPERATURE (R)	537.000
PRIMARY PRESSURE RATIO	1.000
AREA RATIO	9.788
VELOCITY RATIO	.725
PRIMARY VELOCITY (FT/SEC)	1184.775
MASS FLOW RATIO	11.663
PRIMARY MASS FLOW (LB/SEC)	.168
THRUST (LBS)	58.583
ENVIRONMENTAL TEMPERATURE (R)	536.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.670
ENVIRONMENTAL HUMIDITY (PER CENT)	38.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	.045
INSTRUMENTATION NOISE FLOOR (DB)	62.585

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.52882E+00	134.0
500	4.87462E-02	116.9
1000	2.23439E-01	123.5
2000	5.16935E-01	127.1
4000	7.11425E-01	128.5
8000	6.41179E-01	128.1
16000	2.87230E-01	124.6
31500	9.98463E-02	120.0

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	156.4
20000	159.4
40000	162.4
80000	165.4

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	96.3	104.6	100.8	98.7	95.7	89.6	85.5	107.6
20.0	95.3	101.3	102.6	101.2	98.7	93.1	88.0	107.7
25.0	93.9	100.6	103.5	102.8	100.0	95.2	90.4	108.5
30.0	92.5	98.9	103.6	104.7	102.8	98.2	92.9	109.6
35.0	91.1	98.0	103.1	105.9	105.1	100.0	94.0	110.5
40.0	89.3	96.4	101.5	104.3	104.6	100.1	93.6	109.4
45.0	87.9	94.7	100.2	102.4	103.1	99.9	94.5	108.1
50.0	86.7	92.9	98.0	100.3	100.8	98.2	93.5	106.1
55.0	85.6	92.4	97.3	99.2	99.5	97.0	92.6	105.0
60.0	85.5	91.7	96.2	98.0	98.3	95.8	91.9	103.9
65.0	89.1	90.8	95.8	97.0	97.2	94.7	90.7	102.9
70.0	84.5	90.0	95.0	96.4	96.2	94.2	90.5	102.3
75.0	84.5	89.7	94.0	96.0	95.3	92.9	89.5	101.5
80.0	83.8	89.4	94.2	95.3	94.8	92.6	89.1	101.1
85.0	83.0	88.8	93.4	94.3	93.8	91.3	88.2	100.1
90.0	83.0	88.3	93.1	93.6	93.5	90.8	87.2	99.6
95.0	82.3	88.4	92.6	93.1	92.7	90.3	87.4	99.1
100.0	82.0	87.6	92.6	92.8	92.5	90.1	86.8	98.9
105.0	81.3	87.2	91.9	92.5	91.7	89.3	86.3	98.3
110.0	80.6	85.9	91.0	92.0	91.5	89.4	86.3	98.0
115.0	80.1	85.0	91.2	91.9	91.4	89.2	86.3	97.7

MODEL THRUST = 58.583 FULL SCALE THRUST = 20000.000

LV	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS									
			27.1	54.1	108.2	216.5	433.0	866.9	1734.8	3469.7	6765.2	13530.4	27060.8
795.6	75.6(75.4)	77.8	66.87	75.20	71.14	68.53	63.95	53.80	40.66	18.10	-22.07	-90.61	-196.90
385.7	81.6(80.7)	80.2	68.34	74.29	75.50	73.60	69.97	61.27	49.39	31.59	-.45	-52.15	-133.30
349.3	84.9(84.3)	82.8	68.81	75.44	78.28	77.24	73.42	66.18	55.82	40.84	15.08	-28.06	-94.31
300.0	88.5(87.8)	85.2	68.83	75.23	79.80	80.66	77.97	71.21	61.29	48.17	28.93	-11.00	-67.46
315.2	91.5(90.7)	87.3	68.62	75.47	80.55	83.07	81.53	74.69	64.62	52.79	33.02	.44	-49.16
333.6	94.1(93.1)	89.2	67.41	74.99	79.96	82.91	82.18	76.17	65.89	55.02	37.05	7.66	-38.93
121.3	92.0(90.9)	86.6	67.27	74.04	79.44	81.49	81.61	76.80	64.19	58.04	41.43	14.44	-26.37
350.1	91.0(89.6)	85.9	66.79	72.48	77.96	80.13	80.08	76.10	64.35	58.74	43.18	19.08	-19.48
131.2	90.6(89.1)	84.9	66.23	72.98	77.85	79.56	79.39	75.59	64.40	59.22	44.47	20.77	-14.87
732.1	90.1(88.5)	84.3	66.01	72.80	77.26	78.44	78.67	75.02	64.43	59.50	45.48	22.89	-10.98
555.1	89.5(88.0)	83.8	66.58	72.29	77.22	78.27	78.04	74.41	67.79	59.20	46.59	23.87	-8.62
406.9	89.2(87.6)	83.4	66.33	71.98	76.79	78.01	77.82	74.27	64.07	59.68	46.44	24.39	-6.86
352.9	88.7(87.0)	83.0	66.57	71.77	76.62	77.82	76.72	73.22	67.39	59.15	46.19	25.62	-5.05
323.1	88.4(86.7)	82.7	66.02	71.49	76.39	77.34	76.38	73.17	67.30	59.16	46.39	26.18	-3.98
305.7	87.5(85.8)	81.8	65.33	71.11	75.64	76.61	75.49	71.97	66.48	58.40	45.74	25.71	-4.12
300.0	87.0(85.3)	81.4	65.36	70.69	75.42	75.74	74.22	71.55	65.58	57.52	44.90	24.94	-4.79
305.7	86.5(84.7)	80.9	64.61	70.73	74.92	75.19	74.42	70.94	65.68	57.40	44.94	24.91	-4.92
323.1	86.1(84.3)	80.5	64.20	69.91	74.76	74.74	74.09	70.69	64.95	56.91	44.54	25.02	-4.33
352.9	85.2(83.4)	79.8	63.39	69.29	73.85	74.31	73.11	69.64	64.24	56.00	43.64	22.68	-6.20
396.3	84.7(83.0)	79.3	62.46	67.78	73.55	73.59	72.72	69.45	63.80	55.50	42.76	21.21	-10.26
555.1	84.1(82.4)	78.6	61.58	66.50	72.82	73.21	72.19	68.89	63.42	54.83	41.21	19.50	-11.00

RUN NUMBER	= 266.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.000
PRIMARY TEMPERATURE (R)	= 925.000
SECONDARY TEMPERATURE (R)	= 541.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 0.788
VELOCITY RATIO	= .870
PRIMARY VELOCITY (FT/SEC)	= 1166.058
MASS FLOW RATIO	= 10.149
PRIMARY MASS FLOW (LB/SEC)	= .168
THRUST (LBS)	= 94.154
ENVIRONMENTAL TEMPERATURE (R)	= 534.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.670
ENVIRONMENTAL HUMIDITY (PER CENT)	= 41.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .083
INSTRUMENTATION NOISE FLOOR (DB)	= 65.566

ISTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	6.64145E+00	138.2	THRUST	POWER LEVEL(DB)
500	1.68860E-01	122.3	10000	150.5
1000	6.5804[illegible]E-01	128.2	20000	161.5
2000	1.5096[illegible]E+00	131.8	40000	164.5
4000	1.67[illegible]E+00	132.2	80000	167.5
8000	1.47505E+00	131.7		
16000	8.0[illegible]E-01	129.1		
31500	3.42957E-01	125.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	31500	OVER ALL
15.0	102.3	107.6	106.8	102.1	98.0	94.0	90.5	111.0
20.0	100.9	106.5	107.8	104.4	101.6	97.0	92.2	112.2
25.0	100.0	105.7	108.0	105.7	103.2	98.6	94.3	112.5
30.0	98.4	105.0	108.5	107.9	105.6	100.9	95.8	113.5
35.0	96.4	102.8	107.5	108.1	106.8	102.9	97.2	113.1
40.0	94.8	101.4	106.1	107.5	106.9	102.7	97.1	112.7
45.0	93.9	99.6	104.9	106.0	105.9	102.0	97.7	111.4
50.0	91.6	98.1	102.9	104.5	104.9	102.1	97.7	110.4
55.0	90.7	96.8	102.0	103.5	103.8	101.0	96.8	109.3
60.0	89.5	95.9	101.0	102.8	103.0	100.6	96.9	108.6
65.0	90.0	95.4	100.3	102.0	102.2	99.9	95.9	107.9
70.0	89.1	94.8	99.6	101.1	100.9	98.8	95.5	106.9
75.0	88.9	94.0	98.9	100.4	100.1	98.2	95.4	106.3
80.0	88.9	93.8	98.3	99.8	99.4	97.8	95.0	105.7
85.0	88.0	93.2	97.9	99.4	99.2	97.5	95.0	105.6
90.0	87.7	92.6	97.7	98.8	99.0	97.3	94.7	105.1
95.0	86.0	91.0	97.0	98.2	98.3	97.3	94.9	104.8
100.0	86.2	92.4	97.0	97.9	98.4	97.9	95.5	104.8
105.0	85.4	91.0	96.7	97.9	98.3	98.4	95.8	104.8
110.0	85.1	91.1	96.6	97.6	98.6	98.6	95.6	104.7
115.0	85.0	90.1	96.3	97.0	98.0	98.0	95.9	104.7

MODEL THRUST = 94.154 FULL SCALE THRUST = 20000.000

LV	PROD	DASPL		OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
			34.3	68.6	137.2	274.5	548.9	1097.8	2161.3	4322.6	8570.6	17153.2	34306.4
95.6	78.3(| 78.3)	79.6	70.85	75.93	74.45	69.48	64.16	54.87	38.48	10.63	-37.89	-118.39	-239.10
85.7	83.9(| 83.1)	82.6	71.89	77.95	78.84	74.97	70.88	61.35	47.58	25.84	-11.81	-73.28	-165.33
49.3	86.7(| 86.4)	84.7	72.76	78.49	80.58	77.79	73.85	65.87	54.50	30.33	5.45	-48.01	-120.10
88.0	90.3(| 89.4)	87.0	72.63	78.72	82.05	81.55	77.94	70.69	59.58	43.58	18.99	-28.12	-90.05
18.7	91.9(| 91.3)	87.4	71.86	78.26	82.83	83.01	80.13	73.45	63.32	49.15	25.61	-12.36	-68.49
93.6	92.0(| 92.2)	88.3	71.91	77.90	82.95	83.48	81.97	75.80	65.29	52.28	30.95	-3.25	-53.05
21.3	92.9(| 92.2)	87.7	70.20	76.58	81.42	82.83	81.95	76.73	67.40	55.33	35.67	4.30	-41.78
90.4	93.0(| 92.1)	87.3	69.94	76.09	80.79	82.12	81.95	77.17	68.07	57.31	38.93	9.76	-33.03
31.2	92.7(| 91.7)	86.9	69.22	75.09	80.47	81.76	81.34	76.78	68.89	58.06	40.68	13.19	-27.00
92.1	92.1(| 91.0)	86.7	68.59	74.45	79.86	81.52	81.02	77.06	69.79	59.39	42.78	16.82	-21.56
55.1	92.5(| 91.3)	86.4	69.63	74.87	79.68	81.11	80.69	76.82	69.68	59.41	43.61	18.28	-19.76
94.3	91.9(| 90.7)	85.8	68.98	74.28	79.21	80.90	80.71	76.78	69.93	59.81	44.27	19.93	-15.69
52.9	91.0(| 90.3)	85.4	68.68	73.99	78.85	80.13	79.19	75.84	69.87	60.23	45.06	21.27	-13.27
23.1	91.3(| 90.9)	85.8	69.05	73.92	78.41	79.56	78.78	75.72	69.74	60.23	45.27	21.98	-12.03
05.7	91.1(| 89.7)	84.7	68.32	73.47	78.07	79.32	78.59	75.56	69.91	60.67	45.46	22.51	-11.07
00.6	90.8(| 89.5)	84.5	68.08	72.91	77.45	78.81	78.27	75.17	69.71	60.38	45.42	22.66	-11.01
05.7	91.7(| 89.2)	84.0	67.03	72.48	77.42	78.19	77.82	74.33	69.42	60.39	45.44	22.43	-11.14
83.1	91.6(| 89.3)	83.9	66.91	72.47	77.45	77.96	77.60	73.96	69.22	60.11	45.29	22.38	-11.39
52.0	91.2(| 89.1)	83.6	65.86	71.76	76.66	77.45	77.58	76.43	70.10	60.47	45.27	21.50	-11.64
96.3	90.2(| 88.1)	83.3	64.97	70.91	76.26	77.24	77.40	75.42	69.71	59.89	44.35	20.00	-13.42
55.1	89.0(| 88.2)	82.4	64.60	69.56	75.46	76.67	77.25	75.41	69.03	59.96	42.96	17.83	-13.79

RUN NUMBER	= 247.000
AXIAL POSITION OF PRIMARY NNT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 921.000
SECONDARY TEMPERATURE (R)	= 565.000
PRIMARY PRESSURE RATIO	= 2.900
AREA RATIO	= 1.000
VELOCITY RATIO	= .809
PRIMARY VELOCITY (FT/SEC)	= 1604.784
MASS FLOW RATIO	= .938
PRIMARY MASS FLOW (LB/SEC)	= .258
THRUST (LBS)	= 15.706
ENVIRONMENTAL TEMPERATURE (R)	= 546.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.670
ENVIRONMENTAL HUMIDITY (PER CENT)	= 33.000
CALIBRATION FACTOR (MV TO DYN/CM**2)	= .0071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.62104E+00	137.5
500	1.21771E-02	110.9
1000	8.82930E-02	119.5
2000	5.36225E-01	127.3
4000	1.49820E+00	131.8
8000	2.04019E+00	133.1
16000	1.03933E+00	130.2
31500	4.09403E-01	126.1

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	169.9
20000	168.5
40000	171.5
80000	174.6

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	81.1	90.8	105.3	103.3	104.0	104.3	97.5	112.9
20.0	89.9	98.7	106.3	109.1	107.6	101.7	94.7	113.2
25.0	89.0	98.3	105.9	109.1	109.7	103.2	98.9	114.3
30.0	87.3	96.4	104.8	109.0	109.2	104.5	100.1	113.9
35.0	85.6	95.0	104.1	109.5	110.0	105.2	99.9	114.2
40.0	83.9	92.9	102.8	107.9	110.2	104.5	100.9	113.8
45.0	82.4	90.5	99.9	105.3	107.0	104.7	100.7	111.9
50.0	79.9	88.0	96.6	102.8	105.8	104.0	100.2	109.9
55.0	78.2	86.5	94.6	100.2	103.6	102.2	99.5	107.8
60.0	77.4	85.1	92.2	97.8	101.3	100.9	98.0	105.8
65.0	76.6	84.2	91.0	96.2	99.5	99.6	97.1	104.5
70.0	76.1	83.5	90.2	95.1	98.2	98.1	95.9	103.4
75.0	76.1	82.9	89.9	94.3	97.1	97.2	94.8	102.5
80.0	76.1	82.8	89.0	93.3	96.0	96.2	94.9	101.6
85.0	75.6	81.9	88.6	92.5	95.0	95.6	94.0	100.9
90.0	74.5	81.6	87.8	91.8	94.8	95.3	93.5	100.4
95.0	73.6	80.9	87.1	91.3	94.2	94.7	92.8	99.8
100.0	73.9	80.8	86.8	91.0	93.6	94.1	92.2	99.2
105.0	73.3	80.1	85.9	90.2	92.9	93.7	91.5	98.7
110.0	72.6	79.5	85.2	89.4	92.3	93.4	91.2	98.1
115.0	72.0	78.9	84.8	88.9	91.9	93.1	90.8	97.7

MODEL THRUST = 15.706 FULL SCALE THRUST = 20000.000

L	PHDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 14.0	28.0	56.0	112.1	224.2	448.4	889.7	1765.5	3502.9	7885.6	14011.6
795.8	88.7	88.1	87.8	87.83	75.36	81.02	83.42	82.62	78.18	62.31	49.74	28.79	-14.84	-85.69
388.9	92.8	91.9	91.5	90.66	77.26	84.96	87.49	85.74	78.82	64.96	52.26	32.16	7.48	-65.48
849.3	97.2	95.8	94.3	94.56	78.98	86.43	89.82	89.88	84.27	71.49	58.63	38.41	26.74	-19.62
888.4	98.5	97.2	95.9	94.52	78.82	88.89	90.91	88.88	84.78	78.78	70.82	57.52	36.49	-2.31
819.2	100.6	99.1	97.8	96.87	78.47	87.34	92.63	92.89	87.31	78.96	68.61	48.17	6.96	
833.4	101.9	99.9	98.6	98.18	80.12	88.19	93.82	93.28	89.93	82.58	73.88	60.55	48.89	15.93
121.3	100.9	98.8	98.2	97.44	75.56	83.91	94.25	92.57	88.49	82.88	74.18	65.88	48.73	21.12
858.1	100.5	97.8	97.2	95.72	77.79	86.34	88.64	91.27	88.92	83.72	73.88	67.24	51.68	25.07
831.2	99.8	98.3	97.7	96.59	77.41	86.91	89.58	89.84	87.83	82.83	78.88	67.58	52.29	28.05
732.1	98.9	97.2	96.8	96.28	76.98	86.69	87.85	88.46	87.12	82.98	78.88	68.18	53.55	29.45
655.1	97.8	96.2	95.4	93.41	73.40	78.70	83.35	84.52	83.41	82.66	78.71	68.81	53.98	31.38
696.8	97.4	95.3	94.9	93.84	73.44	79.78	84.34	84.94	84.48	81.97	79.83	69.43	53.89	33.97
552.9	96.4	95.4	94.9	93.89	70.85	77.39	81.99	80.46	84.15	81.62	78.85	69.71	54.35	33.33
523.1	95.8	94.8	94.2	93.08	70.84	76.48	81.17	83.72	83.51	81.19	75.58	67.38	54.18	33.98
505.7	95.2	94.3	93.8	93.48	69.42	76.42	80.69	83.26	82.77	80.38	74.85	66.87	53.82	33.14
488.8	94.4	93.6	93.1	92.81	68.89	75.46	79.96	82.67	82.23	79.88	73.86	66.28	53.28	32.48
505.7	94.1	93.3	92.9	91.98	69.40	75.18	79.26	82.12	82.67	79.12	73.63	65.45	52.41	31.44
523.1	93.4	92.8	92.5	91.78	69.49	74.97	79.17	81.96	81.97	78.97	73.42	65.28	51.97	30.98
542.4	92.7	92.1	91.8	91.47	67.91	73.71	77.44	80.47	81.85	77.78	72.22	63.98	50.52	29.51
548.3	91.9	91.2	90.9	90.13	67.40	72.78	76.44	79.53	80.93	76.85	71.31	63.02	49.17	27.65
695.1	91.1	90.4	90.0	89.42	65.96	71.47	76.08	78.88	79.88	76.13	70.39	61.78	47.66	25.46

RUN NUMBER	= 268.000
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 915.000
SECONDARY TEMPERATURE (R)	= 547.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .657
PRIMARY VELOCITY (FT/SEC)	= 1594.363
MASS FLOW RATIO	= 1.192
PRIMARY MASS FLOW (LB/SEC)	= .257
THRUST (LBS)	= 22.328
ENVIRONMENTAL TEMPERATURE (R)	= 544.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.670
ENVIRONMENTAL HUMIDITY (PER CENT)	= 34.000
CALIBRATION FACTOR (DB TO DB/SQ CM)	= .030
INSTRUMENTATION NOISE FLOOR (DB)	= 64.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.48094E+00	136.4	THRUST	POWER LEVEL(DB)
500	2.24732E-02	113.5	10000	162.9
1000	1.58994E-01	122.0	20000	166.0
2000	6.26576E-01	128.0	40000	169.0
4000	1.21808E+00	130.9	80000	172.0
8000	1.39687E+00	131.5		
16000	6.93231E-01	128.4		
31500	2.94738E-01	124.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
10.0	94.2	101.6	105.1	104.9	100.6	94.1	90.0	107.0
20.0	92.7	101.3	104.1	105.7	102.8	95.2	90.4	110.7
25.0	91.7	100.0	104.0	107.3	103.2	96.2	92.1	112.0
30.0	88.1	99.1	104.0	108.3	107.0	100.9	96.3	112.6
35.0	88.3	97.8	104.4	108.5	108.6	103.6	99.6	113.1
40.0	89.3	95.1	102.6	107.4	106.8	104.3	98.5	112.7
45.0	84.0	96.0	100.1	105.3	104.8	99.1	97.1	111.2
50.0	82.1	90.2	97.7	102.4	105.0	103.1	98.9	109.2
55.0	80.6	88.4	95.3	100.1	102.8	101.7	98.4	107.4
60.0	79.6	86.9	93.9	98.0	100.5	100.1	97.5	105.6
65.0	80.0	89.0	92.2	96.7	99.2	98.6	96.2	104.3
70.0	78.1	85.6	91.1	95.2	97.7	97.5	95.5	103.0
75.0	80.0	84.0	90.0	94.1	96.9	96.9	94.9	102.1
80.0	78.6	84.3	92.0	93.6	95.8	95.8	94.2	101.4
85.0	87.0	83.5	89.5	92.9	94.9	94.7	93.5	100.6
90.0	77.0	83.0	88.5	91.9	94.2	93.9	92.8	99.8
95.0	84.0	82.0	87.7	91.1	93.7	93.2	92.0	99.1
100.0	76.6	82.4	87.5	90.9	93.9	93.7	91.6	98.6
105.0	85.0	81.0	86.0	90.1	93.0	93.1	91.7	98.0
110.0	76.6	80.9	86.1	89.6	91.9	91.9	90.2	97.4
115.0	79.0	80.9	85.0	88.9	91.2	91.0	89.0	96.7

MODEL THRUST = 22.328 FULL SCALE THRUST = 20000.000

LV	PWR	DIFF	16.7	OCTAVE 33.4	BAND 66.8	SOUND 133.7	PRESSURE 267.3	LEVELS 534.6	1052.5	2105.0	4170.6	8353.2	16706.3
8799.4	83.81	82.61	84.6	68.98	76.34	79.84	78.88	74.12	69.66	66.64	61.73	15.09	-32.82	-111.94
4385.7	87.81	87.11	87.6	94	82.55	83.89	82.81	78.81	74.97	71.56	64.52	18.56	-8.85	-69.65
3569.5	92.81	91.11	90.8	70.76	79.82	85.85	86.36	83.65	75.38	68.69	65.43	38.38	7.87	-41.74
8888.8	95.11	94.01	92.7	78.01	79.55	88.53	88.87	86.98	78.72	76.88	81.44	65.18	14.85	-22.58
8615.2	97.81	96.51	94.6	78.02	78.04	85.12	90.49	89.84	83.69	76.54	69.26	52.66	29.28	-8.87
8333.6	99.21	97.51	95.0	80.00	82.94	86.25	90.49	91.04	85.79	77.86	70.19	57.97	38.49	2.46
8121.3	99.11	97.61	96.2	87.92	76.48	83.62	88.47	90.15	86.52	78.55	72.27	60.57	41.13	10.27
4958.2	98.51	95.81	92.9	84.59	76.41	81.92	86.96	88.93	86.24	80.36	75.59	62.36	44.19	15.67
3931.2	97.31	94.51	91.6	85.63	73.22	80.26	84.48	87.18	85.58	84.82	73.93	63.62	46.23	19.14
3732.1	96.51	93.31	90.5	84.65	79.26	83.17	81.78	86.65	83.27	73.47	63.77	47.35	21.48
3535.1	95.81	92.61	89.8	85.83	71.73	77.41	82.24	84.72	83.38	79.84	73.38	63.92	47.89	22.45
3334.9	94.91	91.91	89.2	83.73	71.64	77.69	81.49	83.43	82.17	79.21	73.03	63.68	48.11	24.15
3552.9	94.31	93.01	87.8	85.16	71.83	76.83	80.43	82.54	81.15	78.91	72.77	63.41	48.37	24.44
3523.1	93.91	90.61	87.3	84.98	70.74	80.37	79.49	81.95	81.34	78.62	72.39	63.18	48.38	25.38
3595.7	93.11	90.51	86.6	84.18	70.41	76.68	79.18	81.11	80.63	77.88	71.84	62.67	48.88	25.22
3588.8	92.31	89.71	85.8	83.93	69.91	75.89	78.76	80.58	79.88	77.28	71.17	62.02	47.68	24.78
3565.7	91.41	88.81	85.1	83.16	69.40	74.16	77.99	79.91	79.41	76.36	70.33	61.15	46.65	23.71
3559.1	90.91	87.61	84.6	82.66	69.05	73.95	77.75	79.48	78.95	75.88	69.92	60.74	45.98	22.97
3552.9	90.01	87.51	83.7	81.71	68.82	73.88	76.26	78.55	77.49	74.69	68.56	59.19	44.18	22.76
3534.3	89.11	86.61	82.8	80.88	68.69	72.65	75.45	77.62	76.28	73.49	67.67	58.13	42.76	19.79
3535.1	88.11	86.71	81.8	80.76	69.58	71.15	74.38	76.58	75.76	72.97	66.63	56.86	41.02	18.28

RUN NUMBER	= 269.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.830
PRIMARY TEMPERATURE (R)	= 528.000
SECONDARY TEMPERATURE (R)	= 547.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .903
PRIMARY VELOCITY (FT/SEC)	= 1603.918
MASS FLOW RATIO	= .953
PRIMARY MASS FLOW (LB/SEC)	= .260
THRUST (LBS)	= 17.919
ENVIRONMENTAL TEMPERATURE (R)	= 545.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.870
ENVIRONMENTAL HUMIDITY (PER CENT)	= 33.000
CALIBRATION FACTOR (MV TO DYNES CM)	= .100
INSTRUMENTATION NOISE FLOOR (DB)	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.88534E+01	140.4	THRUST	POWER LEVEL(DB)
			10000	167.8
500	1.46189E-02	112.2	20000	170.8
1000	1.12129E-01	120.5	40000	173.8
2000	7.58628E-01	128.8	80000	176.9
4000	5.36505E+00	137.1		
8000	4.21351E+00	136.2		
16000	2.36933E+00	133.7		
31500	8.60300E-01	129.3		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
10.0	93.0	99.2	104.3	107.1	103.4	104.2	100.0	112.0
20.0	90.7	99.2	106.4	109.1	111.2	109.2	104.1	115.7
25.0	90.1	98.0	106.8	111.1	110.0	110.4	105.1	117.2
30.0	89.1	98.1	107.3	111.7	110.3	110.3	104.8	117.5
35.0	87.0	96.0	105.7	111.0	110.9	109.9	104.6	117.0
40.0	85.6	94.6	104.1	110.8	112.8	108.9	103.7	116.4
45.0	83.4	92.2	101.8	109.6	111.7	107.2	102.3	115.3
50.0	81.6	90.3	99.5	108.4	109.6	107.2	101.0	113.3
55.0	80.0	87.9	96.6	107.1	108.6	105.2	101.0	112.7
60.0	79.1	86.3	94.5	105.2	106.1	103.5	100.6	109.7
65.0	78.1	85.4	92.5	99.1	101.5	101.3	99.1	106.8
70.0	77.5	84.6	91.8	97.1	100.5	100.3	97.9	105.4
75.0	76.6	83.9	90.8	95.9	97.1	99.2	96.8	103.6
80.0	77.5	83.7	90.6	94.9	97.0	97.8	95.8	103.6
85.0	76.3	82.6	89.5	94.0	96.6	96.6	95.4	101.6
90.0	76.3	82.8	88.9	93.9	96.3	96.1	94.2	101.5
95.0	75.6	81.7	88.2	92.6	95.4	95.2	93.5	100.6
100.0	75.4	81.3	87.5	91.7	94.5	94.5	92.7	99.4
105.0	74.6	81.2	86.6	91.2	93.8	93.8	91.8	98.6
110.0	74.8	80.9	86.1	90.3	93.3	93.3	91.2	98.6
115.0	73.1	79.6	85.9	90.0	93.0	92.8	90.8	96.2

MODEL THRUST = 17.919 FULL SCALE THRUST = 80000.000

LV	PHOD.	BASPL	19.9	OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
				29.9	59.9	119.7	239.5	479.0	962.0	1925.7	3741.5	7483.0	14965.1
8705.6	90.11	89.31	87.7	87.72	76.46	70.97	82.56	82.88	78.31	68.61	55.29	39.97	-12.65	-89.43
8985.7	96.61	95.21	93.0	88.96	77.39	86.49	87.65	84.87	85.28	76.86	69.63	53.96	32.96	-43.88
9349.3	100.31	99.01	96.6	78.18	78.92	85.02	93.95	92.33	89.73	80.73	71.67	55.61	37.35	-10.81
9888.2	102.61	101.71	98.6	78.61	79.42	89.75	97.68	96.38	93.74	82.89	74.28	57.22	38.68	-9.16
10435.2	103.71	101.81	94.4	78.31	79.45	88.31	94.32	95.52	91.31	84.85	78.48	63.78	42.32	7.51
10939.5	104.11	102.11	94.5	79.05	80.26	89.76	96.38	96.69	91.79	86.06	79.93	66.15	48.27	18.79
11121.3	104.21	101.91	94.3	80.13	78.46	88.78	93.38	95.85	91.05	85.38	78.61	67.81	49.83	21.03
10938.1	103.31	100.81	92.6	80.78	79.96	86.46	91.43	94.27	91.05	83.78	77.69	69.69	52.27	24.45
10831.9	101.61	98.71	90.9	80.48	79.52	82.10	89.76	91.03	90.11	85.05	78.89	69.87	53.16	27.67
10732.1	100.61	97.31	90.4	80.37	78.98	83.93	89.63	89.89	89.97	86.71	78.68	69.31	54.58	28.67
10655.1	99.11	95.71	92.7	80.76	77.46	79.15	86.68	88.15	87.22	85.73	77.75	69.65	53.08	29.45
10496.2	98.41	95.11	92.8	80.78	77.41	79.07	86.22	87.77	86.97	85.22	77.49	69.48	53.06	31.07
10552.9	97.11	93.61	90.5	80.76	75.88	77.48	82.72	85.46	84.88	82.87	76.30	67.59	53.83	31.76
10523.1	96.81	93.81	90.8	80.48	75.13	77.35	82.46	84.83	84.63	81.79	75.55	68.45	53.23	31.87
10585.7	95.71	91.91	89.1	83.78	73.74	76.48	81.18	83.42	83.32	80.88	74.96	65.42	52.78	31.44
10588.9	95.11	91.51	88.6	83.78	78.31	78.48	80.71	83.53	82.49	79.87	74.10	65.89	52.09	32.46
10585.7	94.71	90.51	87.7	83.37	69.71	75.52	79.78	82.68	81.94	79.81	73.68	64.85	51.73	32.42
10583.1	93.31	89.21	86.8	82.87	68.73	74.49	80.05	81.62	81.18	78.19	72.46	63.93	51.08	32.08
10572.9	92.61	88.71	85.9	81.21	67.54	73.27	78.12	80.68	80.25	77.23	71.47	62.78	49.78	30.91
10578.3	91.41	87.91	85.1	80.97	67.21	73.18	77.98	79.67	79.17	76.32	71.65	61.98	49.18	30.77
10559.1	90.71	87.21	84.4	59.74	66.28	72.51	78.56	79.41	78.88	75.37	69.42	58.33	49.65	32.92

RUN NUMBER	[illegible]
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= [illegible]
SECONDARY TEMPERATURE (R)	= 547.000
PRIMARY PRESSURE-RATIO	= [illegible]
AREA RATIO	= 4.456
VELOCITY RATIO	= .603
PRIMARY VELOCITY (FT/SEC)	= 1001.310
MASS FLOW RATIO	= [illegible]
PRIMARY MASS FLOW (LB/SEC)	= .250
THRUST (LBS)	= 20.450
ENVIRONMENTAL TEMPERATURE (R)	= 530.000
ENVIRONMENTAL PRESSURE (IN.HG)	= [illegible]
ENVIRONMENTAL HUMIDITY (PER CENT)	= 39.000
CALIBRATION FACTOR (DB TO DB/SQ CM)	= [illegible]
INSTRUMENTATION NOISE FLOOR (DB)	= 64.500

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	3.610346E+00	135.6	THRUST	POWER LEVEL(DB)
500	3.788722E-02	115.8	[illegible]	[illegible]
1000	[illegible]	[illegible]	20000	146.4
2000	6.[illegible]E-01	128.2	[illegible]	[illegible]
4000	[illegible]	[illegible]	80000	170.4
8000	1.035726E+00	130.2		
16000	[illegible]	[illegible]		
31500	1.074552E-01	122.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND SOUND PRESSURE LEVELS 1000	2000	4000	8000	16000	31500	OVER ALL
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20.0	93.5	102.0	105.0	103.4	98.1	91.2	84.1	109.6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30.0	92.1	100.7	106.4	104.0	105.4	97.4	91.1	111.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40.0	88.1	96.5	103.4	107.1	107.5	102.5	95.4	111.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50.0	83.8	91.7	98.8	102.5	104.7	102.1	97.3	108.9
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60.0	82.1	88.2	94.8	97.3	100.3	98.2	98.4	105.4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70.0	80.6	86.7	91.7	94.0	96.6	94.3	94.4	102.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80.0	79.5	85.1	89.9	92.7	94.5	94.2	91.6	100.1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90.0	78.3	84.0	88.6	91.0	93.0	92.6	90.3	98.7
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.0	77.6	82.6	87.9	90.2	91.8	91.1	89.1	97.3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110.0	76.2	81.8	86.4	88.8	90.6	90.0	88.0	96.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MODEL THRUST = 20.450 FULL SCALE THRUST = 20000.000

[illegible]	[illegible]	[illegible]	[illegible]	OCTAVE 18.2	36.4	72.7	145.5	290.9	581.9	1163.5	2291.1	4545.0	9551.5	SPL(82.1)
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20.0	99.8	99.2	82.1	81.69	76.37	70.13	75.68	87.15	69.88	63.86	38.82	9.23	-81.98	-125.86
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30.0	99.1	98.7	82.7	82.26	80.59	84.91	82.56	79.21	69.69	62.15	51.29	32.49	-.01	-52.31
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40.0	97.5	97.9	83.9	83.56	88.49	86.17	88.35	83.46	79.78	68.22	56.67	40.12	17.19	-32.51
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50.0	96.8	96.7	82.7	83.59	88.15	85.97	88.10	87.18	83.51	72.57	61.17	47.14	27.48	-16.97
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60.0	96.1	96.1	82.1	83.59	88.15	85.97	88.10	87.18	83.51	72.57	61.17	47.14	27.48	-9.97
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70.0	95.4	95.1	82.1	83.57	88.12	85.94	87.95	87.18	83.27	72.34	61.09	46.94	27.33	-3.11
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80.0	94.7	94.4	81.8	83.57	88.12	85.94	87.95	87.18	83.27	72.34	61.09	46.94	27.33	4.87
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90.0	93.9	93.7	81.5	83.57	88.12	85.94	87.95	87.18	83.27	72.34	61.09	46.94	27.33	12.69
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.0	93.1	93.1	81.2	83.57	88.12	85.94	87.95	87.18	83.27	72.34	61.09	46.94	27.33	16.78
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110.0	92.3	92.4	80.9	83.57	88.12	85.94	87.95	87.18	83.27	72.34	61.09	46.94	27.33	17.23
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120.0	91.6	91.7	80.6	83.57	88.12	85.94	87.95	87.18	83.27	72.34	61.09	46.94	27.33	17.53
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130.0	91.1	91.1	80.3	83.57	88.12	85.94	87.95	87.18	83.27	72.34	61.09	46.94	27.33	17.87
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140.0	90.7	90.6	80.1	83.57	88.12	85.94	87.95	87.18	83.27	72.34	61.09	46.94	27.33	18.09
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150.0	90.4	90.3	79.9	83.57	88.12	85.94	87.95	87.18	83.27	72.34	61.09	46.94	27.33	18.24
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160.0	90.2	90.1	79.8	83.57	88.12	85.94	87.95	87.18	83.27	72.34	61.09	46.94	27.33	18.34
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170.0	90.1	90.0	79.7	83.57	88.12	85.94	87.95	87.18	83.27	72.34	61.09	46.94	27.33	18.38

RUN NUMBER	272.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	9.400
PRIMARY TEMPERATURE (F)	927.000
SECONDARY TEMPERATURE (F)	565.000
PRIMARY PRESSURE RATIO	2.500
AREA RATIO	4.856
VELOCITY RATIO	.452
PRIMARY VELOCITY (FT/SEC)	1004.784
MASS FLOW RATIO	4.892
PRIMARY MASS FLOW (LBM/SEC)	.768
THRUST (LBS)	56.180
ENVIRONMENTAL TEMPERATURE (F)	530.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.740
ENVIRONMENTAL HUMIDITY (PER CENT)	30.000
CALCULATION FLOW RATE TO NOZZLE (LBM/SEC)	.771
INSTRUMENTATION NOISE FLOOR (DB)	46.570

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL 267

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.945716-02	138.4	THRUST	POWER LEVEL(DB)
500	1.779465E-03	122.5	20000	144.1
1000	8.971512E-03	129.5	30000	147.1
2000	1.925332E-02	132.8	40000	149.1
4000	1.944833E-02	132.9		
8000	1.244833E-02	131.4		
16000	9.913916E-03	129.9		
31500	2.342716-03	123.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	63	OCTAVE BAND SOUND PRESSURE LEVELS (DB) 125	250	500	1000	2000	4000	8000	OVER ALL
10.0	103.3	108.3	109.4	105.3	96.1	93.1	88.6	113.4	
20.0	102.7	108.6	109.4	105.3	96.1	93.1	88.6	113.4	
30.0	99.5	107.1	110.2	106.2	102.2	98.4	92.8	114.2	
40.0	99.2	107.3	109.3	104.6	100.3	97.2	92.2	112.6	
50.0	99.6	107.7	109.6	104.8	100.3	96.8	93.5	113.1	
60.0	99.9	107.9	109.4	104.4	100.1	96.8	93.5	113.0	
70.0	98.9	97.6	108.7	104.1	100.4	100.2	94.4	111.1	
80.0	99.2	98.2	109.2	104.5	100.8	97.6	94.4	111.4	
90.0	98.1	98.3	108.1	103.7	100.2	96.6	94.4	110.6	
100.0	97.2	97.3	107.2	102.8	99.3	95.9	93.5	109.8	
110.0	96.0	95.8	96.2	101.5	100.2	93.9	95.0	108.8	
120.0	95.0	94.1	96.0	98.6	96.4	93.4	92.4	107.6	
130.0	93.3	93.3	94.3	97.3	97.3	93.4	93.0	107.5	
140.0	93.5	93.2	93.6	97.4	97.2	93.4	93.0	107.5	
150.0	93.2	93.0	93.6	97.4	97.2	93.4	93.0	107.5	
160.0	93.2	93.0	93.6	97.4	97.2	93.4	93.0	107.5	
170.0	93.2	93.0	93.6	97.4	97.2	93.4	93.0	107.5	
180.0	93.2	93.0	93.6	97.4	97.2	93.4	93.0	107.5	

MODEL THRUST = $0.160 FULL SCALE THRUST = 22000.000

			26.0	50.0	100.0	200.0	400.0	800.0	1600.0	3200.0	6400.0	12800.0	25600.0
0	81.51	81.31	83.3	78.81	79.45	79.25	75.53	64.69	59.09	48.22	32.92	-18.49	-93.18
10	85.51	85.61	86.9	84.29	83.65	82.91	80.20	69.89	61.99	49.59	3.42	-137.79	-137.97
20	89.91	89.31	88.6	76.13	83.22	83.25	81.45	72.46	65.63	53.52	41.61	15.61	-25.99
30	91.01	91.11	90.5	76.65	85.15	85.15	83.19	74.19	69.96	57.15	25.42	-98.48	-47.78
40	92.71	93.01	91.5	75.67	87.11	87.49	85.69	81.18	75.67	63.39	51.91	33.74	.97
50	95.01	95.11	93.7	77.13	89.55	89.53	87.58	83.73	78.43	65.42	53.87	37.37	-29.39
60	94.91	94.91	93.5	77.76	89.49	89.65	87.55	83.71	78.31	65.41	53.87	37.37	-29.39
70	93.31	93.01	91.5	76.25	87.49	87.49	85.69	81.18	75.67	63.39	51.91	33.74	.97
80	91.81	91.71	89.8	74.84	85.79	85.79	83.99	79.49	73.98	61.84	50.37	30.68	-1.93
90	91.31	91.21	89.8	74.84	85.79	85.79	83.99	79.49	73.98	61.84	50.37	30.68	-1.93
100	91.31	91.21	89.8	74.84	85.79	85.79	83.99	79.49	73.98	61.84	50.37	30.68	-1.93
110	91.31	91.21	89.8	74.84	85.79	85.79	83.99	79.49	73.98	61.84	50.37	30.68	-1.93
120	91.31	91.21	89.8	74.84	85.79	85.79	83.99	79.49	73.98	61.84	50.37	30.68	-1.93
130	91.31	91.21	89.8	74.84	85.79	85.79	83.99	79.49	73.98	61.84	50.37	30.68	-1.93
140	91.31	91.21	89.8	74.84	85.79	85.79	83.99	79.49	73.98	61.84	50.37	30.68	-1.93
150	91.31	91.21	89.8	74.84	85.79	85.79	83.99	79.49	73.98	61.84	50.37	30.68	-1.93
160	91.31	91.21	89.8	74.84	85.79	85.79	83.99	79.49	73.98	61.84	50.37	30.68	-1.93
170	91.31	91.21	89.8	74.84	85.79	85.79	83.99	79.49	73.98	61.84	50.37	30.68	-1.93
180	91.31	91.21	89.8	74.84	85.79	85.79	83.99	79.49	73.98	61.84	50.37	30.68	-1.93

RUN NUMBER	273.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	9.000
PRIMARY TEMPERATURE (R)	[illegible]
SECONDARY TEMPERATURE (R)	545.000
PRIMARY PRESSURE RATIO	2.509
AREA RATIO	9.780
VELOCITY RATIO	.482
PRIMARY VELOCITY (FT/SEC)	1062.051
MASS FLOW RATIO	[illegible]
PRIMARY MASS FLOW (LB/SEC)	.288
THRUST (LBS)	[illegible]
ENVIRONMENTAL TEMPERATURE (R)	538.000
ENVIRONMENTAL PRESSURE (IN.HG)	29.720
ENVIRONMENTAL HUMIDITY (PER CENT)	38.000
CALIBRATION FACTOR (DB TO WATTS)	[illegible]
INSTRUMENTATION NOISE FLOOR (DB)	78.544

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.410026E+01	141.5	THRUST	POWER LEVEL(DB)
352	3.728162E+02	115.7	10000	145.6
1984	[illegible]	[illegible]	20000	148.6
5346	8.870346E-01	129.5	40000	151.6
8030	[illegible]	[illegible]	80000	154.6
5048	5.584276E+00	137.4		
10000	[illegible]	[illegible]		
31500	1.181136E+00	130.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS (DB re .0002 DYNES/CM SQ)							OVER ALL
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25.0	94.4	101.5	103.8	108.8	109.7	104.4	102.3	113.4
30.0	93.0	101.7	[illegible]	109.0	[illegible]	[illegible]	[illegible]	[illegible]
35.0	92.4	102.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40.0	89.8	97.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45.0	85.0	93.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50.0	82.6	89.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55.0	81.0	88.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60.0	80.6	86.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65.0	80.0	85.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70.0	79.4	85.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110.0	77.3	83.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MODEL THRUST = 30.07% FULL SCALE THRUST = 22500.000

[illegible]	[illegible]	[illegible]	OCTAVE [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			22.1	44.2	88.4	176.8	353.6	707.2	1342.4	2100.7	5529.2	11058.4
[illegible]	85.21	[illegible]	82.8	87.18	92.43	95.28	96.48	96.67	91.84	84.85	61.65	7.86
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2549.3	94.71	95.14	91.9	96.52	97.95	94.16	85.95	87.18	84.12	78.94	62.24	48.27
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2615.9	[illegible]	[illegible]	88.1	89.44	88.42	85.19	81.43	78.87	73.87	67.12	53.49	25.53
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2171.3	[illegible]	[illegible]	84.8	86.56	84.54	83.49	81.52	79.48	74.45	72.25	59.31	35.49
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1931.7	94.41	97.80	93.2	95.52	93.20	88.76	86.18	80.38	81.15	73.36	60.49	36.19
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1555.1	97.24	95.57	91.8	95.67	92.87	87.49	83.49	81.15	81.05	72.99	60.81	34.81
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1555.1	97.51	96.50	93.2	95.69	92.49	87.49	82.38	81.07	81.14	72.55	59.98	34.96
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1557.0	94.51	93.04	89.7	89.83	88.12	85.42	83.55	77.82	81.13	72.55	58.78	34.48
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1523.1	93.51	93.77	89.5	89.55	90.49	84.98	81.83	81.27	79.12	70.89	58.43	34.37
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1545.7	92.71	94.01	89.8	89.19	89.84	85.45	80.42	78.55	79.81	71.55	57.63	34.11
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1545.6	91.91	94.11	89.9	89.22	89.70	86.19	80.66	78.84	79.84	71.55	58.43	34.45
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1545.7	91.49	94.21	88.2	89.49	89.17	86.56	80.44	78.99	79.84	71.55	58.43	34.83
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1527.6	93.11	93.69	93.3	89.78	89.91	87.48	84.48	81.48	81.84	72.55	58.43	34.84
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1572.9	94.11	93.51	89.4	91.71	87.93	88.73	85.51	82.82	81.54	72.55	58.43	34.84
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1504.3	94.01	95.31	91.4	91.94	89.84	92.19	88.53	84.99	81.44	72.55	58.43	34.84
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1549.8	97.01	94.01	90.9	90.84	89.68	91.87	89.56	85.22	74.83	70.87	62.49	34.83

RUN NUMBER	= 274.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 926.000
SECONDARY TEMPERATURE (R)	= 545.000
PRIMARY PRESSURE RATIO	= 2.503
AREA RATIO	= 9.783
VELOCITY RATIO	= .852
PRIMARY VELOCITY (FT/SEC)	= 1603.918
MASS FLOW RATIO	= 1.022
PRIMARY MASS FLOW (LB/SEC)	= .260
THRUST (LBS)	= 94.193
ENVIRONMENTAL TEMPERATURE (R)	= 535.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.720
ENVIRONMENTAL HUMIDITY (PER CENT)	= 40.000
CALIBRATION FACTOR (DB TO DY/SQ CM)	= .142
INSTRUMENTATION NOISE FLOOR (DB)	= 72.631

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.62411E+01	144.2
500	2.91052E-01	124.6
1000	2.72989E+00	134.4
2000	3.40804E+00	135.3
4000	5.75070E+00	137.6
8000	8.01177E+00	139.0
16000	9.44089E+00	139.5
31500	1.60303E+00	132.0

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	164.4
20000	167.5
40000	170.5
80000	173.5

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	104.1	107.4	107.2	106.1	105.5	102.7	97.7	113.9
20.0	104.0	108.9	109.3	108.2	109.1	105.7	100.4	115.6
25.0	102.9	108.8	111.2	110.6	110.9	108.6	103.7	117.5
30.0	101.0	108.1	112.2	112.3	113.0	110.8	105.3	118.8
35.0	98.9	106.9	112.5	114.4	114.3	111.9	106.7	120.0
40.0	96.8	105.1	111.3	115.2	116.0	112.2	106.8	120.5
45.0	94.9	102.8	109.5	113.3	115.4	112.6	106.6	119.7
50.0	93.6	115.8	109.0	111.7	114.5	111.8	106.0	120.3
55.0	92.3	99.2	105.4	109.0	111.0	109.1	104.9	115.6
60.0	91.5	95.9	102.8	106.4	108.8	107.2	103.7	113.4
65.0	91.4	97.1	102.7	105.3	107.3	106.1	102.5	112.3
70.0	90.7	96.2	101.5	103.9	105.5	104.2	101.4	110.8
75.0	89.3	95.4	100.9	102.5	104.2	103.1	100.9	109.7
80.0	90.1	95.3	100.3	101.7	102.9	101.8	100.2	108.7
85.0	89.5	95.1	99.5	101.3	102.0	101.0	99.6	108.1
90.0	88.6	96.1	98.9	100.8	102.0	100.3	99.1	107.6
95.0	92.9	93.7	98.5	100.3	101.1	99.7	98.9	107.1
100.0	88.4	93.8	98.1	99.5	100.7	99.2	97.9	106.5
105.0	87.7	93.3	97.6	99.5	100.6	98.8	97.5	106.3
110.0	86.0	92.7	97.4	99.0	100.6	98.2	97.0	105.9
115.0	86.0	91.4	97.1	98.6	100.6	97.8	96.7	105.6

MODEL THRUST = 94.193 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 34.3	68.6	137.3	274.5	549.0	1098.0	2161.7	4323	8578.4	17156.7	34313.4
5795.6	82.3	82.1	81.2	72.60	75.86	76.05	73.53	70.74	62.50	45.59	17.2	-30.71	-111.22	-231.94
4385.7	87.8	87.6	85.4	74.08	79.77	79.96	78.25	76.53	70.01	55.60	34.06	-3.40	-65.05	-157.14
3549.3	92.9	92.4	89.1	75.66	81.56	83.80	82.88	81.68	76.09	63.88	45.70	14.82	-35.65	-116.74
3000.0	96.4	95.9	91.8	76.30	82.36	86.30	86.06	85.52	80.49	68.90	53.08	26.51	-16.61	-80.55
2615.2	99.3	98.7	94.2	74.39	82.29	87.79	89.36	88.50	83.39	72.87	58.69	35.14	-2.83	-58.95
2333.4	101.3	100.6	95.7	73.25	81.41	87.68	91.17	91.14	85.17	75.00	62.03	40.70	6.49	-43.92
2121.3	101.8	101.0	95.7	72.18	80.06	86.67	90.16	91.93	86.68	76.35	64.28	44.62	13.25	-32.84
1954.1	102.3	101.4	97.4	71.56	93.74	85.87	89.25	91.32	86.78	77.02	65.65	47.27	18.08	-24.69
1831.2	99.5	98.4	92.8	70.89	77.75	83.90	87.21	89.50	84.92	76.95	66.12	48.74	21.25	-18.95
1732.1	98.1	96.8	91.1	70.59	74.36	81.79	85.09	86.85	83.68	76.59	66.18	49.57	23.41	-14.77
1655.1	97.4	96.1	90.5	70.82	76.51	82.09	84.44	85.78	83.02	76.09	66.02	50.02	24.88	-11.74
1590.3	96.3	94.9	89.3	70.44	75.93	81.89	83.38	84.30	81.49	75.46	65.83	50.09	25.79	-9.88
1552.9	95.8	94.3	88.4	69.31	75.17	80.40	82.20	83.26	80.75	75.40	65.76	50.56	26.79	-7.75
1523.1	95.2	93.7	87.7	70.28	75.43	80.45	81.51	82.15	79.64	74.99	65.48	50.51	27.14	-6.80
1505.7	94.7	93.2	87.2	69.78	75.30	79.71	81.25	81.38	79.03	74.52	65.09	50.26	27.12	-6.46
1500.6	94.2	92.7	86.7	68.95	74.35	79.10	80.79	81.41	78.34	74.02	64.60	49.82	26.76	-6.71
1505.7	93.7	92.1	86.2	73.17	73.92	78.64	80.23	80.53	77.69	73.36	63.93	49.10	25.96	-7.62
1523.1	93.1	91.4	85.5	68.68	73.43	78.18	79.45	80.60	77.18	72.69	63.19	48.22	24.84	-9.19
1552.9	92.3	90.9	85.1	67.68	73.24	77.83	79.18	79.74	76.49	72.01	62.37	47.18	23.41	-11.14
1596.3	91.4	90.0	84.5	66.76	72.91	77.11	78.48	79.40	75.57	71.05	61.23	45.69	21.36	-13.69
1655.1	90.8	89.4	83.9	65.44	70.74	76.49	77.76	79.13	74.73	70.23	60.15	44.15	19.01	-17.60

RUN NUMBER	= 375.00 (75L.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 895.000
SECONDARY TEMPERATURE (R)	= 550.000
PRIMARY PRESSURE RATIO	= 3.580
AREA RATIO	= 1.000
VELOCITY RATIO	= .429
PRIMARY VELOCITY (FT/SEC)	= 1882.215
MASS FLOW RATIO	= .831
PRIMARY MASS FLOW (LB/SEC)	= .328
THRUST (LBS)	= 23.340
ENVIRONMENTAL TEMPERATURE (F)	= 544.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	= 32.000
CALIBRATION FACTOR (MV TO DYNS/SQ CM)	= .126
INSTRUMENTATION NOISE FLOOR (DB)	= 71.587

NOZZLE POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.76174E+01	142.5
500	3.66536E-02	115.6
1000	2.03150E-01	123.5
2000	1.74492E+00	132.4
4000	4.03691E+00	136.7
8000	6.40625E+00	138.1
16000	5.32618E+00	137.3
31500	1.18343E+00	130.7

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	166.8
20000	171.8
40000	174.8
80000	177.8

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	96.3	104.6	109.9	111.5	114.6	104.3	97.2	116.2
20.0	95.3	104.6	110.8	112.8	112.8	108.2	100.8	117.9
25.0	94.1	103.3	111.6	114.0	114.1	110.3	103.6	119.1
30.0	91.9	102.1	110.7	114.8	115.4	112.2	106.3	120.0
35.0	90.5	100.0	109.4	114.7	115.5	112.4	107.0	119.9
40.0	87.8	97.3	107.3	113.0	115.0	111.1	105.7	118.7
45.0	86.1	95.0	104.1	110.6	113.2	110.0	103.0	116.9
50.0	84.3	92.4	101.0	107.3	110.5	108.5	104.2	114.4
55.0	82.5	90.1	98.4	104.1	107.9	106.7	103.4	112.0
60.0	81.1	88.5	96.5	102.1	105.4	104.5	101.7	110.0
65.0	81.1	88.1	95.0	100.1	103.3	102.8	100.8	108.2
70.0	80.6	87.1	94.0	98.7	101.8	101.7	99.8	107.0
75.0	80.6	86.6	93.5	97.9	100.6	100.6	98.8	106.0
80.0	80.1	86.6	92.9	97.3	99.8	99.6	97.8	105.1
85.0	79.5	85.5	92.0	96.5	99.3	98.7	97.2	104.4
90.0	79.5	85.5	91.5	95.7	99.1	98.0	96.5	103.9
95.0	79.5	84.8	90.8	94.8	98.6	97.4	95.8	103.3
100.0	78.3	84.1	90.2	94.5	98.0	96.8	95.2	102.7
105.0	77.6	83.7	89.3	93.9	97.4	96.4	94.7	102.1
110.0	77.6	83.0	88.9	93.3	96.8	96.0	94.5	101.7
115.0	76.8	82.5	88.4	93.0	97.2	95.5	93.9	101.5

MODEL THRUST = 23.340 FULL SCALE THRUST = 20000.000

L*	PHOBS	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 17.1	34.2	68.3	136.6	273.3	546.6	1076.1	2152.2	4270.2	8540.4	17080.9
5795.6	91.5(91.0)	90.2	70.88	79.20	84.45	85.77	84.03	75.82	63.22	48.24	20.96	-27.78	-108.06
4385.7	96.7(96.0)	94.2	72.33	81.69	87.76	89.42	88.90	82.74	71.33	54.27	37.89	.28	-61.20
3849.3	100.5(99.4)	97.3	72.95	82.18	90.37	92.43	92.31	87.18	77.26	66.92	49.05	18.03	-32.29
3000.0	103.6(102.2)	99.7	72.20	82.41	91.01	95.20	95.11	90.92	82.18	72.98	57.41	30.73	-12.27
2615.2	105.1(103.5)	100.8	72.03	81.56	90.84	96.37	96.47	92.48	84.67	76.26	62.31	38.66	.79
2333.4	105.3(103.5)	100.8	70.36	79.79	89.73	95.43	97.01	92.12	84.74	76.92	64.14	42.72	8.61
2121.3	104.8(102.7)	99.6	69.47	78.34	87.43	93.82	96.17	92.10	85.24	77.85	65.96	46.22	14.94
1958.1	103.6(101.0)	97.9	68.36	76.40	85.04	91.25	94.21	91.47	85.36	78.31	67.11	48.65	19.54
1831.2	102.0(99.1)	96.0	67.08	74.76	83.01	88.41	91.78	90.26	85.36	78.57	67.90	50.45	23.03
1732.1	100.6(97.5)	94.6	66.23	73.89	81.56	87.47	90.12	88.65	84.28	77.70	67.48	50.77	24.88
1655.1	99.6(96.3)	93.1	66.62	73.61	80.49	85.52	88.48	87.32	83.92	77.50	67.66	51.50	26.43
1596.3	98.8(95.5)	92.2	66.44	72.79	79.83	84.68	87.32	86.85	83.25	76.98	67.27	51.67	27.38
1552.9	98.1(94.7)	91.4	66.68	72.67	79.53	83.48	86.37	85.76	82.56	76.35	66.84	51.58	27.88
1523.1	97.6(94.0)	90.8	66.32	72.84	79.13	83.40	85.73	84.95	81.74	75.61	66.23	51.21	27.90
1505.7	96.8(93.3)	90.2	65.86	71.78	78.30	82.52	85.33	84.21	81.27	75.16	65.85	50.96	27.88
1500.0	96.2(92.8)	89.7	65.90	71.81	77.93	81.97	84.21	83.50	80.65	74.55	65.26	50.42	27.42
1505.7	95.6(92.2)	89.1	65.86	71.13	77.07	81.09	84.79	82.85	79.89	73.77	64.47	49.58	26.50
1529.1	96.4(91.9)	88.4	64.52	70.30	76.20	80.64	83.43	82.20	79.14	72.99	63.61	48.59	25.28
1552.9	94.0(90.6)	87.6	63.66	69.80	75.37	79.87	83.13	81.56	78.43	72.22	62.72	47.46	23.75
1596.3	93.3(89.9)	86.9	63.42	68.77	74.47	78.90	82.30	80.94	77.98	71.66	61.97	46.37	22.08
1655.1	92.7(89.5)	86.4	62.35	68.03	73.67	78.60	82.37	80.89	77.02	70.60	60.66	44.60	19.53

RUN NUMBER	= 276.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 893.000
SECONDARY TEMPERATURE (R)	= 547.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .582
PRIMARY VELOCITY (FT/SEC)	= 1800.200
MASS FLOW RATIO	= .978
PRIMARY MASS FLOW (LB/SEC)	= .328
THRUST (LBS)	= 28.805
ENVIRONMENTAL TEMPERATURE (R)	= 544.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	= 32.000
CALIBRATION FACTOR (MV TO DV/DU CM)	= .126
INSTRUMENTATION NOISE FLOOR (DB)	= 71.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.76455E+01	142.5
500	5.38969E-02	117.3
1000	3.96511E-01	126.0
2000	2.03132E+00	133.1
4000	6.38402E+00	136.9
8000	6.05004E+00	137.8
16000	3.85995E+00	134.9
31500	1.17064E+00	130.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	167.9
20000	170.9
40000	173.9
80000	176.9

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	97.0	104.3	110.5	110.6	108.2	102.2	95.3	115.6
20.0	97.0	105.9	111.7	112.6	111.3	104.9	97.8	117.4
25.0	95.8	105.0	112.1	114.1	113.0	107.3	100.9	118.8
30.0	94.0	103.5	111.5	114.6	114.7	110.2	103.5	119.4
35.0	92.3	101.4	109.8	115.0	115.3	111.5	105.3	119.7
40.0	90.0	98.8	107.7	113.5	115.1	111.3	105.8	118.9
45.0	87.1	96.3	105.0	111.1	113.9	110.3	105.4	117.2
50.0	85.3	93.2	101.8	108.2	110.6	108.8	104.7	114.8
55.0	83.6	91.8	99.2	105.5	107.7	106.8	103.6	112.4
60.0	82.0	90.7	97.4	102.8	105.4	105.1	102.9	110.5
65.0	82.5	89.4	95.7	100.3	103.4	102.9	101.7	108.5
70.0	82.5	89.2	95.1	99.3	102.3	102.5	100.5	107.7
75.0	82.0	88.1	94.2	98.1	100.7	101.2	99.5	106.4
80.0	82.0	87.4	93.5	97.3	99.9	100.7	98.6	105.7
85.0	81.1	86.9	93.1	96.8	99.6	100.0	97.9	105.1
90.0	80.6	86.3	92.0	96.1	99.4	99.3	97.0	104.5
95.0	80.6	86.0	91.7	95.5	99.5	98.8	96.2	104.2
100.0	78.9	85.1	90.9	94.6	98.9	98.3	95.6	103.6
105.0	78.0	84.0	90.2	93.9	97.4	97.9	95.0	102.9
110.0	78.9	83.7	89.5	93.5	97.8	97.6	98.6	103.5
115.0	78.3	83.7	89.3	93.4	98.3	97.4	93.9	102.6

MODEL THRUST = 28.805 FULL SCALE THRUST = 20000.000

LV	PNDB	OASPL	19.0	OCTAVE 38.0	BAND 75.9	SOUND 151.8	PRESSURE 303.6	LEVELS 607.2	1195.4	2390.9	4743.8	9487.7	18975.4
5795.6	89.1(88.7)	88.7	71.58	79.96	84.07	83.89	80.52	71.99	59.20	42.74	12.88	-39.98	-125.90
4385.7	94.7(94.1)	92.9	79.12	81.98	87.74	88.38	86.35	78.13	66.47	53.29	29.96	-10.77	-76.52
3549.3	98.7(97.9)	96.0	73.80	82.99	90.01	91.78	90.17	82.90	72.88	61.65	42.19	8.65	-45.13
3000.0	101.9(100.8)	98.2	75.38	82.93	90.83	93.83	93.37	87.62	77.84	67.87	50.97	22.15	-23.77
2615.2	104.0(102.6)	99.7	72.89	81.98	90.39	95.42	95.31	90.36	81.66	72.59	57.46	31.96	-8.45
2333.4	104.8(103.2)	99.9	71.00	80.39	89.85	94.90	96.13	91.37	83.40	75.04	61.23	38.19	1.78
2121.3	104.3(102.4)	98.9	69.57	78.76	87.40	93.33	95.29	91.34	84.26	76.34	63.61	42.25	8.90
1958.1	103.6(100.7)	97.2	68.39	76.28	84.86	91.19	93.29	90.66	84.52	76.97	64.89	45.05	14.03
1831.2	101.5(98.9)	95.4	67.33	75.49	82.84	89.08	90.95	89.32	84.23	76.98	65.49	46.74	17.54
1732.1	100.3(97.4)	93.9	66.23	74.45	81.48	88.03	89.15	88.16	84.18	77.10	66.07	48.17	20.39
1656.1	99.0(95.8)	92.3	67.05	73.97	80.24	86.77	87.56	86.41	83.51	76.67	66.00	48.76	22.08
1596.3	98.6(95.5)	91.9	61.36	74.00	80.00	86.44	86.64	86.37	83.71	76.81	65.81	48.87	23.04
1552.9	97.7(94.5)	90.8	67.18	73.25	79.27	83.10	85.52	85.33	82.01	75.41	65.21	48.85	23.63
1523.1	97.2(94.0)	90.3	67.35	72.70	78.78	82.55	84.83	85.03	81.31	74.77	64.71	48.61	23.81
1500.0	96.0(92.8)	89.3	66.53	72.29	78.46	82.14	84.65	84.40	80.66	74.15	64.17	48.21	23.67
1505.7	95.5(92.5)	89.0	66.07	71.78	77.81	81.83	84.47	83.71	79.94	73.46	63.50	47.60	23.14
1529.1	94.8(91.7)	88.2	66.04	71.46	77.85	80.40	84.58	83.24	79.08	72.59	62.61	46.65	22.11
1552.9	93.9(90.9)	87.3	64.08	69.95	75.26	78.94	82.70	82.01	77.51	70.91	60.71	44.35	19.14
1596.3	95.2(91.2)	87.5	63.84	68.65	74.43	78.32	82.36	81.44	80.78	74.07	63.67	46.94	21.10
1655.1	92.7(89.9)	86.4	62.88	68.33	73.89	77.87	82.47	80.88	75.74	68.90	58.23	40.99	14.31

RUN NUMBER	= 277.004
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 893.000
SECONDARY TEMPERATURE (R)	= 544.000
PRIMARY PRESSURE RATIO	= 3.506
AREA RATIO	= 3.007
VELOCITY RATIO	= .426
PRIMARY VELOCITY (FT/SEC)	= 1800.200
MASS FLOW RATIO	= .172
PRIMARY MASS FLOW (LB/SEC)	= .325
THRUST (LBS)	= 23.726
ENVIRONMENTAL TEMPERATURE (R)	= 543.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	= 34.000
CALIBRATION FACTOR (DB TO DYNES CM)	= .178
INSTRUMENTATION NOISE FLOOR (DB)	= 74.584

SPECTRUM AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.06622E+01	144.9
500	4.84040E-02	116.9
1000	3.65903E-01	125.6
2000	2.23326E+00	133.5
4000	7.33753E+00	138.7
8000	1.18354E+01	140.7
16000	8.59871E+00	139.1
31500	2.32295E+00	133.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	171.1
20000	174.1
40000	177.1
80000	180.1

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	97.4	105.5	109.4	113.5	115.0	111.3	105.0	119.2
20.0	96.6	105.4	112.1	115.4	117.3	114.5	108.6	121.6
25.0	95.1	104.5	112.5	116.1	118.1	115.3	109.9	122.3
30.0	93.3	103.2	112.1	116.9	118.7	115.9	110.7	122.9
35.0	91.3	101.3	110.9	116.6	118.1	115.0	110.0	122.2
40.0	89.6	98.9	108.2	115.0	117.0	113.8	108.7	120.8
45.0	87.8	96.2	105.5	112.3	115.1	111.1	107.4	118.8
50.0	85.5	93.8	102.6	109.3	112.2	110.3	105.9	116.2
55.0	83.6	91.5	99.7	105.9	109.2	108.3	104.6	113.6
60.0	83.1	90.1	97.5	103.5	106.8	106.3	103.2	111.5
65.0	81.9	89.6	96.4	101.8	104.8	104.2	101.8	109.6
70.0	81.9	88.8	95.2	100.3	103.2	103.0	101.1	108.4
75.0	81.3	88.1	94.9	99.1	101.7	101.6	100.7	107.2
80.0	81.3	87.5	94.0	98.4	101.2	101.0	100.0	106.6
85.0	80.6	86.1	93.4	97.6	100.1	100.2	99.1	105.7
90.0	80.6	86.4	93.0	96.7	99.8	99.5	98.2	105.1
95.0	80.6	86.0	92.1	96.3	99.0	98.7	97.3	104.5
100.0	79.8	85.1	91.4	95.1	98.9	98.0	96.8	103.8
105.0	79.6	84.6	90.9	94.5	98.4	97.1	96.0	103.1
110.0	79.0	84.1	90.1	93.8	97.9	96.7	95.3	102.5
115.0	78.1	83.6	89.1	93.5	97.4	96.2	94.9	102.2

MODEL THRUST = 23.726 FULL SCALE THRUST = 20000.000

LV	PNDB	OASPL	17.2	OCTAVE 34.4	BAND 68.9	SOUND 137.8	PRESSURE 275.5	LEVELS 551.1	1084.9	2169.9	4305.3	8610.7	17221.3
85.6	95.6(95.0)	92.6	71.94	80.06	83.80	87.70	88.35	82.51	70.92	55.83	28.35	-20.76	-101.41
85.7	101.2(100.3)	97.5	73.00	82.31	89.04	92.10	93.36	88.95	78.99	66.84	45.32	7.47	-54.34
90.3	104.4(103.1)	100.2	73.94	83.27	91.30	94.71	96.14	92.06	83.43	73.02	55.03	23.83	-26.76
90.0	106.8(105.3)	102.3	73.60	83.46	92.28	97.03	98.40	94.41	86.54	77.26	61.61	34.77	-8.46
95.2	107.6(105.8)	102.9	72.73	82.76	91.86	97.90	99.01	94.92	87.56	79.10	65.06	41.27	3.21
95.6	107.5(105.8)	102.8	72.09	81.98	90.80	97.28	98.47	94.80	87.88	79.81	66.96	43.41	11.12
91.3	106.7(104.6)	101.4	70.25	79.43	88.71	96.49	97.99	94.13	87.55	80.12	68.16	48.30	16.86
88.1	105.1(102.7)	99.5	68.43	77.40	86.53	95.11	96.74	93.18	86.90	79.89	68.62	50.06	20.01
81.2	103.6(100.6)	97.5	66.18	74.10	84.22	90.34	93.40	91.78	86.40	79.58	68.85	51.29	23.74
82.1	102.1(99.1)	95.9	64.14	74.18	82.45	88.80	91.80	90.29	85.70	79.09	68.78	52.01	25.79
85.1	100.8(97.7)	94.4	62.37	75.05	81.77	86.92	89.92	88.70	84.76	78.30	68.31	52.16	26.97
86.3	100.1(96.8)	93.5	61.49	74.80	80.94	86.00	88.89	87.92	84.30	78.17	68.43	52.76	28.34
82.9	99.3(95.8)	92.6	61.28	74.12	80.45	84.99	87.35	86.65	84.33	78.09	68.53	53.19	29.37
83.1	99.0(95.4)	92.2	61.45	73.92	80.08	84.49	87.03	86.27	83.92	77.74	68.31	53.20	29.78
85.7	98.2(94.7)	91.4	60.85	73.00	79.61	83.79	86.05	85.56	83.09	76.95	67.59	52.62	29.43
80.6	97.5(94.0)	90.8	60.49	72.65	79.24	83.86	85.79	84.93	82.21	76.08	66.75	51.83	28.72
85.7	96.9(93.3)	90.2	60.45	72.21	78.34	82.43	85.55	84.04	81.33	75.19	65.83	50.86	27.67
83.1	96.3(92.5)	89.3	60.20	71.96	77.92	81.19	84.70	83.29	80.59	74.48	65.04	49.94	26.82
82.9	95.6(91.6)	88.5	60.00	70.82	76.94	80.39	84.07	82.21	79.65	73.41	63.85	48.51	24.69
84.3	94.1(90.8)	87.1	59.76	69.97	75.78	79.46	83.34	81.44	78.70	72.37	62.69	46.95	22.54
85.1	93.4(90.2)	87.0	63.53	69.42	74.55	78.78	83.01	80.83	77.84	71.39	61.40	45.25	20.06

MACH NUMBER	= 278.00 (752.00)
AXIAL POSITION OF PRIMARY NRT, SECONDARY (I.S.)	= 9.800
PRIMARY TEMPERATURE (R)	= 833.000
SECONDARY TEMPERATURE (R)	= 543.000
PRIMARY PRESSURE RATIO	= 3.900
AREA RATIO	= 2.007
VELOCITY RATIO	= .588
PRIMARY VELOCITY (FT/SEC)	= 1800.200
MASS FLOW RATIO	= 1.071
PRIMARY MASS FLOW (LB/SEC)	= .325
THRUST (LBS)	= 29.450
ENVIRONMENTAL TEMPERATURE (R)	= 543.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	= 34.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .178
INSTRUMENTATION NOISE FLOOR (DB)	= 74.589

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.43297E+01	145.4
500	7.37565E-02	118.7
1000	1.44636E+00	131.6
2000	3.10520E+00	134.9
4000	8.38016E+00	139.2
8000	1.14915E+01	140.8
16000	6.72236E+00	136.3
31500	2.66027E+00	134.2

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	170.7
20000	173.7
40000	176.7
80000	179.7

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	95.9	110.6	111.2	112.6	112.2	108.2	102.0	121.1
20.0	98.7	107.2	113.2	115.2	115.9	112.1	106.4	120.8
25.0	97.6	107.1	114.0	116.6	117.6	114.7	109.3	122.4
30.0	96.0	105.0	113.4	117.6	118.8	116.0	110.8	123.2
35.0	93.8	103.5	112.2	117.4	118.3	115.5	111.0	122.8
40.0	91.3	100.9	109.9	116.1	117.8	114.6	109.9	121.8
45.0	84.4	93.1	106.7	112.9	115.2	112.4	107.5	119.2
50.0	87.0	95.6	103.8	109.4	112.4	110.6	107.5	116.7
55.0	85.5	93.5	100.9	106.4	109.6	108.8	105.7	114.2
60.0	85.0	91.8	98.9	104.1	107.5	107.0	104.5	112.3
65.0	84.4	91.1	97.6	101.9	104.9	104.2	103.1	110.1
70.0	83.6	90.6	96.5	101.0	103.6	103.4	102.2	109.0
75.0	83.4	90.6	95.9	99.7	101.9	102.3	101.1	107.8
80.0	83.1	89.3	95.3	99.6	101.1	101.5	100.0	106.9
85.0	83.1	89.1	94.3	98.0	100.2	100.4	99.2	106.0
90.0	83.1	88.9	94.5	97.3	100.2	99.9	98.5	105.6
95.0	82.5	88.1	93.4	96.7	99.3	99.0	97.9	104.9
100.0	81.9	87.5	93.0	96.0	99.5	98.3	97.1	104.4
105.0	81.3	87.1	92.3	95.4	98.9	97.9	96.9	103.8
110.0	80.6	86.4	91.6	95.1	98.7	97.1	95.8	103.4
115.0	80.6	86.5	91.1	94.5	98.3	96.7	95.1	103.2

MODEL THRUST = 29.450 FULL SCALE THRUST = 20000.000

L+	PNDB+	OASPL	OCTAVE 19.2	38.4	BAND 76.7	SOUND 153.5	PRESSURE 307.0	LEVELS 614.0	1208.8	2417.5	4796.7	9593.3	19186.7
795.6	93.9(93.4)	94.2	69.52	92.07	84.67	85.73	84.41	77.86	66.52	49.91	19.75	-33.56	-120.08
385.7	99.1(98.5)	95.0	74.78	89.20	89.17	90.88	90.91	85.13	74.86	61.56	38.81	-3.06	-69.27
549.3	103.4(102.3)	99.3	75.47	86.97	91.74	94.22	94.01	90.17	81.08	69.74	50.11	16.30	-37.85
000.0	106.3(105.0)	101.7	75.37	84.36	92.64	96.72	97.41	93.26	84.95	74.91	57.89	28.81	-17.43
615.2	107.4(105.8)	102.8	74.34	84.05	92.86	97.75	98.23	94.27	87.03	77.89	62.64	36.94	-3.75
339.4	107.7(106.0)	103.5	78.78	92.36	91.47	97.41	98.52	96.40	87.41	78.93	65.00	41.74	5.11
121.3	106.9(104.4)	100.8	70.90	80.43	88.96	95.06	97.06	93.69	87.21	79.23	66.29	44.88	11.31
858.1	105.0(102.6)	98.4	70.01	78.66	86.79	92.29	94.94	92.69	87.21	79.61	67.48	47.44	16.22
831.2	103.3(100.7)	97.0	69.08	77.10	84.51	89.45	92.82	91.19	86.19	78.89	67.31	48.42	19.03
732.1	102.1(99.2)	95.6	69.14	75.88	82.96	88.17	91.14	89.89	84.62	78.58	67.44	49.40	21.44
655.1	100.8(97.4)	93.8	69.08	75.66	81.87	86.25	88.97	87.99	84.72	77.83	67.08	49.71	22.86
594.3	99.7(96.2)	93.1	68.49	75.44	81.28	85.98	87.78	87.17	84.21	77.52	67.08	50.18	24.18
552.9	99.0(95.7)	92.1	68.67	74.66	80.80	84.68	86.59	86.26	83.51	76.86	66.59	50.11	24.72
523.1	98.4(95.1)	91.4	68.31	74.45	80.50	84.10	85.95	85.66	82.83	76.06	65.92	49.70	24.75
505.7	97.9(94.7)	90.7	68.41	74.37	79.86	83.17	85.15	84.89	81.95	75.41	65.34	49.29	24.59
500.0	97.8(93.8)	90.3	68.45	74.10	79.81	82.91	84.18	84.18	81.25	74.72	64.76	48.68	24.06
505.7	96.3(93.1)	89.6	67.85	73.65	78.47	81.48	84.76	83.33	80.56	74.02	63.97	47.90	23.20
523.1	96.1(92.4)	88.9	67.15	73.24	78.11	81.11	84.35	82.79	79.79	73.19	63.17	46.89	21.89
552.9	94.8(91.7)	88.2	66.34	72.15	77.15	80.16	83.51	81.85	78.96	72.31	62.03	45.58	20.17
596.3	94.4(91.0)	87.5	65.41	71.16	76.41	79.42	83.17	80.85	77.83	71.08	60.81	43.75	17.74
655.1	93.5(90.7)	87.0	65.09	70.92	75.64	78.47	81.39	80.03	76.74	69.47	59.12	41.75	14.90

RUN NUMBER	= 219.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 891.000
SECONDARY TEMPERATURE (R)	= 542.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= .4.856
VELOCITY RATIO	= .423
PRIMARY VELOCITY (FT/SEC)	= 1798.183
MASS FLOW RATIO	= 1.321
PRIMARY MASS FLOW (LB/SEC)	= .327
THRUST (LBS)	= 29.988
ENVIRONMENTAL TEMPERATURE (R)	= 541.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	= 33.000
CALIBRATION FACTOR (DY TO DY/SQ C.)	= .100
INSTRUMENTATION NOISE FLOOR (DB)	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.22363E+01	140.9
500	1.03700E-01	120.2
1000	6.2152IE-01	127.9
2000	2.20290E+00	133.4
4000	3.595[illegible]E+00	135.9
8000	3.42817E+00	135.4
16000	1.63313E+00	132.1
31500	6.91385E-01	128.4

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	166.1
20000	169.1
40000	172.1
80000	175.1

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	101.3	108.2	110.9	107.8	102.0	99.9	95.1	114.5
20.0	100.4	108.1	111.7	109.7	104.5	99.3	93.5	115.5
25.0	98.9	106.9	112.5	112.2	108.2	100.8	94.5	116.8
30.0	96.7	105.8	111.9	113.6	111.5	104.9	97.9	117.8
35.0	94.6	103.3	110.5	113.7	112.9	107.5	100.4	118.0
40.0	91.7	100.6	108.1	112.5	113.1	108.6	102.2	117.4
45.0	89.0	97.0	105.1	109.9	111.8	108.1	102.7	115.8
50.0	87.3	95.2	102.2	106.5	108.5	106.5	102.4	113.0
55.0	85.8	93.0	99.3	103.3	105.9	104.8	102.0	110.8
60.0	85.1	91.9	97.4	101.4	103.9	103.2	101.8	109.1
65.0	85.1	90.6	96.2	99.9	102.9	101.9	100.6	107.6
70.0	84.4	90.1	95.1	98.6	100.7	101.0	99.6	106.6
75.0	84.4	89.5	94.4	97.2	99.5	100.1	98.0	105.5
80.0	83.5	88.7	93.9	96.7	98.7	99.1	97.6	104.7
85.0	83.2	88.5	93.5	96.0	98.0	98.5	96.7	104.0
90.0	82.6	87.6	92.6	95.2	97.5	97.7	95.9	103.3
95.0	82.3	86.0	92.0	94.7	97.0	97.0	95.2	102.7
100.0	82.0	86.5	91.5	93.8	96.6	96.6	94.6	102.1
105.0	81.2	85.9	90.8	93.3	96.1	96.1	94.1	101.6
110.0	80.8	85.6	90.5	93.1	95.6	95.6	93.8	101.2
115.0	81.2	84.9	90.0	92.6	95.1	95.1	93.1	100.7

MODEL THRUST = 29.988 FULL SCALE THRUST = 20000.000

LV	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 19.4	38.7	77.4	154.9	309.8	619.6	1219.8	2439.5	4880.3	9680.6	19361.1
5795.6	86.4(86.0)	87.7	74.84	81.70	83.94	80.86	74.09	69.39	56.59	39.84	9.46	-44.22	-131.24
4385.7	90.8(90.3)	91.2	78.91	85.98	87.93	85.30	79.41	72.27	61.79	48.38	24.86	-16.69	-83.27
3549.3	95.0(94.3)	94.3	76.70	84.72	90.16	89.75	85.09	76.09	66.10	54.68	34.91	.88	-53.58
3000.0	99.0(98.1)	98.7	75.98	85.01	91.12	92.61	89.98	82.71	71.90	61.79	44.61	15.38	-31.11
2615.2	101.5(100.4)	98.0	75.03	83.75	90.43	93.98	92.68	86.14	76.34	67.13	51.77	25.91	-15.01
2333.6	102.7(101.3)	98.9	73.17	82.08	89.47	93.19	93.98	88.40	78.37	71.03	57.01	33.80	-3.23
2121.3	102.4(100.6)	97.2	71.83	80.10	87.35	91.98	93.25	88.86	81.27	73.23	60.21	38.66	4.91
1958.1	101.0(98.8)	95.2	70.22	78.12	85.11	89.26	90.99	88.15	81.97	74.33	62.07	41.95	10.56
1831.2	99.6(97.1)	93.6	69.37	76.52	82.75	86.67	89.01	86.92	82.32	74.98	63.32	44.31	14.76
1732.1	98.8(95.9)	92.3	69.14	75.90	81.36	85.29	87.49	86.03	82.86	75.75	64.57	46.62	18.31
1655.1	97.4(94.8)	91.3	69.55	75.04	80.56	84.15	86.04	85.14	82.12	75.19	64.37	46.90	19.90
1596.3	97.3(94.7)	90.5	69.11	74.79	79.85	83.29	85.01	84.61	81.60	74.81	64.27	47.31	21.17
1552.9	96.4(93.4)	89.7	69.35	74.43	79.53	82.07	84.06	84.01	80.06	74.18	63.84	47.26	21.75
1523.1	95.4(92.7)	89.1	68.69	73.79	78.99	81.60	83.44	83.17	81.08	73.47	63.27	46.95	21.87
1505.7	95.3(92.2)	88.6	68.69	73.72	78.66	81.11	82.88	82.72	79.29	72.72	62.61	46.44	21.61
1500.0	94.6(91.6)	87.9	67.90	72.83	77.99	80.33	82.42	81.91	79.55	71.99	61.91	45.79	21.04
1505.7	93.9(90.7)	87.3	67.54	71.99	77.23	79.86	81.86	81.21	77.77	71.20	61.09	44.92	20.09
1523.1	93.3(90.1)	86.9	67.10	71.48	76.80	79.41	81.36	80.65	77.18	70.50	60.31	43.99	19.01
1552.9	92.5(89.4)	85.9	66.21	70.83	75.71	78.13	80.68	79.99	76.34	69.65	59.31	42.74	17.22
1596.3	91.7(88.7)	85.2	64.59	70.35	75.16	77.67	79.98	79.22	75.73	68.94	58.40	41.64	15.30
1655.1	90.7(87.8)	84.4	65.66	69.28	74.37	76.91	79.10	78.34	74.69	67.76	56.94	39.47	12.48

RUN NUMBER	= 240.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.000
PRIMARY TEMPERATURE (R)	= 893.000
SECONDARY TEMPERATURE (R)	= 542.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 4.856
VELOCITY RATIO	= .579
PRIMARY VELOCITY (FT/SEC)	= 1600.200
MASS FLOW RATIO	= 2.190
PRIMARY MASS FLOW (LB/SEC)	= .328
THRUST (LBS)	= 41.641
ENVIRONMENTAL TEMPERATURE (R)	= 539.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	= 32.000
CALIBRATION FACTOR (INV TO BY/SQ CM)	= .128
INSTRUMENTATION NOISE FLOOR (DB)	= 71.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.72316E+01	142.4
500	2.73058E-01	124.4
1000	1.50670E+00	131.9
2000	4.54137E+00	136.6
4000	5.07887E+00	137.1
8000	3.34912E+00	135.2
16000	1.55530E+00	131.9
31500	8.71633E-01	129.4

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	166.2
20000	169.2
40000	172.2
80000	175.2

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	105.4	111.7	113.1	109.0	102.9	99.0	93.4	117.0
20.0	104.7	112.3	114.6	111.1	104.1	98.2	93.4	118.1
25.0	103.1	111.3	115.1	112.3	106.2	98.8	94.1	118.5
30.0	101.3	109.4	114.8	113.8	108.6	100.7	96.1	118.7
35.0	98.6	107.3	115.7	114.8	111.2	103.8	98.2	119.8
40.0	96.4	104.4	111.4	113.9	112.3	106.0	100.7	118.1
45.0	93.4	101.9	108.9	112.1	111.7	106.9	101.6	116.7
50.0	91.6	99.2	105.8	108.7	109.2	106.0	102.9	114.2
55.0	89.8	96.8	103.2	106.1	107.1	105.2	102.9	112.4
60.0	89.3	96.2	101.8	104.4	105.6	104.7	102.5	111.2
65.0	88.7	95.1	100.6	103.2	104.1	103.5	101.9	110.0
70.0	88.5	94.3	100.0	102.1	102.8	102.6	101.1	109.0
75.0	88.0	93.5	99.6	101.1	101.8	101.8	100.3	108.1
80.0	87.8	92.5	97.8	100.4	101.0	101.0	99.7	107.3
85.0	86.4	92.1	97.6	99.8	100.3	100.3	99.0	106.7
90.0	85.8	91.9	96.7	99.6	99.8	99.8	98.6	106.2
95.0	85.5	91.3	95.9	99.4	99.3	99.3	98.1	105.8
100.0	85.0	90.9	96.1	99.3	98.9	98.9	97.8	105.5
105.0	85.0	90.3	95.2	98.8	98.6	98.6	97.7	105.1
110.0	85.0	89.4	95.2	98.7	98.4	98.4	97.3	104.9
115.0	84.9	89.9	95.1	98.8	98.2	98.2	97.2	104.8

MODEL THRUST = 41.641 FULL SCALE THRUST = 20000.000

L+	PNDB+	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 22.8	45.6	91.3	182.5	365.0	730.1	1437.3	2874.7	5703.7	11407.4	22814.8
5795.6	87.5(87.2)	88.8	77.50	83.81	85.07	80.53	73.19	66.07	53.02	33.63	-1.27	-61.93	-158.19
4385.7	91.7(91.3)	92.4	79.22	86.79	89.02	85.16	77.21	68.90	58.48	43.07	15.93	-30.70	-104.28
3549.3	94.8(94.4)	94.6	79.45	87.64	91.31	88.52	81.49	72.11	62.87	49.83	27.29	-11.02	-71.13
3000.7	97.0(96.9)	96.2	79.19	87.22	92.38	91.36	85.46	75.95	67.45	55.97	38.45	-3.60	-47.87
2615.2	100.0(99.1)	97.5	77.63	86.34	92.68	93.59	89.30	80.56	71.64	61.24	43.84	14.83	-20.26
2333.4	101.4(100.4)	97.6	76.44	84.49	91.34	93.70	91.68	83.99	75.67	66.07	50.23	24.01	-10.56
2121.3	101.7(100.4)	97.0	74.23	82.77	89.65	92.73	91.84	85.46	77.93	68.93	56.25	30.14	-6.99
1958.1	100.8(99.1)	95.1	73.10	80.70	87.88	90.03	90.10	85.81	80.25	71.71	57.93	35.45	-.94
1831.2	100.0(97.9)	93.7	71.93	78.45	85.28	88.03	88.67	85.73	81.10	72.92	59.84	38.62	6.16
1732.1	99.5(97.3)	92.9	71.86	78.74	84.35	86.78	87.90	85.77	81.39	73.49	60.96	40.73	9.86
1655.1	98.8(96.4)	92.1	71.67	78.08	83.90	86.09	86.59	85.07	81.31	73.63	61.82	42.05	12.42
1596.7	98.2(95.7)	91.5	71.78	77.66	83.25	85.66	85.69	84.51	80.97	73.70	62.27	42.79	13.70
1552.9	97.6(95.0)	90.8	71.60	77.07	82.07	84.53	84.87	84.00	80.54	73.15	61.60	43.15	15.16
1523.1	97.1(94.5)	90.2	71.55	76.20	81.44	83.91	84.23	83.41	80.13	72.82	61.44	43.29	15.78
1505.7	96.6(93.9)	89.7	70.20	75.88	81.37	83.47	83.63	82.81	79.57	72.32	61.03	43.05	15.82
1500.6	96.1(93.5)	89.3	69.69	75.76	80.49	83.31	83.18	82.38	79.20	71.96	60.76	42.77	15.64
1505.7	93.6(93.0)	89.3	69.37	75.12	79.66	83.08	82.44	81.77	78.71	71.45	60.16	42.18	14.95
1523.1	93.2(92.6)	88.4	68.47	74.48	79.23	82.36	81.75	81.31	78.28	70.91	59.53	41.37	13.86
1552.9	92.7(92.1)	87.9	68.50	73.65	78.74	82.19	81.66	80.76	77.87	70.47	58.93	40.48	12.49
1596.3	92.0(91.5)	87.4	68.26	72.68	78.50	81.91	81.24	80.30	77.16	69.65	57.86	38.98	10.29
1655.1	93.4(90.9)	86.9	67.30	71.96	78.07	81.63	80.65	79.75	76.60	68.92	56.80	37.36	7.71

RUN NUMBER	= 281.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 898.000
SECONDARY TEMPERATURE (R)	= 538.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 9.788
VELOCITY RATIO	= .420
PRIMARY VELOCITY (FT/SEC)	= 1803.221
MASS FLOW RATIO	= 5.170
PRIMARY MASS FLOW (LB/SEC)	= .325
THRUST (LBS)	= 57.762
ENVIRONMENTAL TEMPERATURE (R)	= 538.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.698
ENVIRONMENTAL HUMIDITY (PER CENT)	= 34.000
CALIBRATION FACTOR (MV TO DY/CM CM)	= .1199
INSTRUMENTATION NOISE FLOOR (DB)	= 75.578

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.44329E+01	146.5
500	1.07465E-01	120.3
1000	6.28298E-01	128.0
2000	3.16569E+00	135.0
4000	1.06556E+01	140.3
8000	1.57695E+01	142.0
16000	9.37671E+00	139.7
31500	4.72962E+00	136.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	168.9
20000	171.9
40000	174.9
80000	177.9

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	100.8	106.2	109.6	121.0	112.4	110.3	104.5	122.3
20.0	99.8	106.9	111.3	112.9	114.7	112.7	107.8	119.7
25.0	98.4	106.4	113.3	115.4	117.1	114.8	109.7	121.8
30.0	97.0	105.7	113.9	117.5	119.0	116.8	112.2	123.6
35.0	95.1	104.0	112.4	117.7	119.5	117.3	112.1	123.8
40.0	93.3	101.9	110.6	117.3	120.1	116.8	111.5	123.7
45.0	91.4	99.9	107.9	116.6	117.5	114.3	110.2	122.0
50.0	89.5	97.4	105.2	111.1	114.4	112.6	108.7	118.5
55.0	88.0	95.5	102.1	107.8	111.7	110.7	107.2	116.0
60.0	86.4	93.9	100.0	105.2	108.8	108.2	105.2	113.5
65.0	86.4	92.8	98.9	103.1	106.8	106.2	104.2	111.6
70.0	85.1	92.1	97.8	102.2	105.2	104.7	103.1	110.3
75.0	85.6	91.4	96.8	100.7	104.0	103.5	102.3	109.2
80.0	85.1	90.6	96.5	100.3	102.7	102.8	101.1	108.3
85.0	84.6	90.3	95.1	99.0	100.9	101.7	100.1	107.0
90.0	84.1	89.7	94.9	98.1	100.2	100.8	99.1	106.2
95.0	83.5	89.1	94.2	97.0	99.8	100.0	98.5	105.5
100.0	82.9	88.5	93.5	96.4	99.7	99.5	97.8	105.0
105.0	82.3	87.7	93.3	95.8	99.3	99.0	97.0	104.5
110.0	81.6	86.9	92.4	95.2	99.0	98.6	96.3	104.0
115.0	81.6	86.5	92.1	94.3	99.4	98.1	95.9	103.8

MODEL THRUST = 57.762 FULL SCALE THRUST = 20000.000

LV	PNDB	OASPL		OCTAVE BAND SOUND PRESSURE LEVELS								
			26.9	53.7	107.5	215.0	429.9	859.9	1692.8	3385.7	6717.6	13435.2	26870.5
5795.6	94.7(94.5)	91.8	70.67	76.83	80.04	90.85	80.79	74.63	59.87	37.45	-2.49	-70.70	-176.56
4385.7	95.6(99.1)	91.0	72.92	80.00	84.19	85.30	86.06	81.01	69.31	51.01	20.05	-31.69	-112.53
3549.3	100.3(99.6)	95.2	73.32	81.34	89.05	89.85	90.57	85.83	75.32	60.42	34.80	-8.13	-74.13
3000.0	104.1(103.3)	98.6	73.43	82.88	90.18	93.53	94.24	89.92	80.66	67.80	45.48	8.73	-47.7?
2615.2	105.9(104.8)	100.0	72.71	81.53	89.90	94.97	96.05	92.05	82.76	71.00	51.32	18.90	-30.51
2320.6	107.1(106.0)	101.1	71.04	80.40	89.18	95.49	97.16	92.80	85.09	73.07	55.19	25.94	-18.48
2121.3	107.2(105.3)	99.7	70.78	79.26	87.23	93.51	96.04	91.40	84.02	72.91	63.39	36.53	-4.12
1968.1	106.2(102.6)	97.3	69.65	77.49	85.23	90.98	93.75	90.61	83.68	74.12	58.64	33.61	-4.14
1831.2	102.5(100.7)	95.4	68.65	76.14	82.71	88.29	91.67	89.45	83.03	73.89	59.22	35.62	.12
1732.1	100.6(98.7)	93.4	67.02	75.19	81.09	86.19	89.33	87.64	81.85	73.05	59.01	36.52	2.78
1655.1	99.4(97.3)	91.9	66.02	74.31	80.39	84.42	87.46	86.00	81.44	72.89	59.36	37.72	5.35
1598.7	98.7(96.5)	91.0	66.99	73.77	79.98	83.98	86.61	85.87	80.76	72.41	59.24	38.28	6.05
1552.9	98.1(95.8)	90.1	67.70	73.49	79.43	82.65	85.51	83.94	80.37	72.16	59.26	38.79	6.23
1523.1	97.3(95.1)	89.6	67.40	72.88	78.70	82.16	84.43	83.46	79.42	71.32	58.61	38.47	6.44
1505.7	96.2(94.0)	88.1	67.00	72.71	77.66	81.14	82.68	82.44	78.48	70.44	57.86	37.90	6.17
1500.0	95.4(93.2)	87.4	66.51	72.18	77.31	80.37	81.99	81.64	77.61	69.59	57.03	37.15	7.51
1505.7	94.7(92.4)	86.7	65.92	71.51	76.50	79.18	81.63	80.78	76.90	68.85	56.25	36.31	6.49
1523.1	93.9(91.7)	86.2	65.22	70.76	75.71	78.31	81.21	80.14	76.03	67.92	55.21	35.08	5.05
1552.9	93.3(90.8)	85.4	64.40	69.85	75.38	77.72	80.77	79.42	74.99	66.79	53.89	33.42	2.46
1596.9	92.8(89.9)	84.7	63.47	68.82	74.20	76.92	80.27	78.71	73.99	65.64	52.47	31.91	.18
1655.1	91.5(89.5)	84.1	63.16	68.04	73.64	75.60	80.29	77.89	73.07	64.52	50.97	29.35	-3.02

RUN NUMBER	[illegible]
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 282.000
PRIMARY TEMPERATURE (R)	= 9.880
SECONDARY TEMPERATURE (R)	= [illegible]
PRIMARY PRESSURE RATIO	= 540.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 9.788
PRIMARY VELOCITY (FT/SEC.	= .978
MASS FLOW RATIO	= 1802.215
PRIMARY MASS FLOW (LB/SEC)	= [illegible]
THRUST (LBS)	= .325
ENVIRONMENTAL TEMPERATURE (R)	= 101.860
ENVIRONMENTAL PRESSURE (IN.HG)	= 536.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.690
CALIBRATION FACTOR (MV TO DYN/SQ CM)	= 38.000
INSTRUMENTATION NOISE FLOOR (DB)	= .252
	= 77.607

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.07128E+01	147.8
500	3.67908E+01	125.7
1000	1.67714E+00	132.2
2000	6.50920E+00	138.1
4000	1.39541E+01	141.4
8000	2.14217E+01	143.3
16000	1.63122E+01	142.1
31500	4.47058E+00	136.5

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	167.8
20000	170.8
40000	173.8
80000	176.8

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	105.4	109.5	111.4	111.0	111.5	108.1	102.4	116.2
20.0	104.6	110.7	112.8	114.0	114.8	112.1	106.4	120.3
25.0	103.5	110.9	114.2	115.8	116.5	114.5	108.8	122.1
30.0	101.5	109.7	116.1	117.5	118.5	116.1	111.0	123.6
35.0	100.5	108.4	115.7	119.0	119.8	118.6	111.9	124.6
40.0	97.9	106.3	114.7	119.4	120.9	119.3	112.0	125.0
45.0	96.0	104.6	113.0	119.0	120.5	119.0	111.6	124.8
50.0	94.5	102.3	109.3	114.2	117.5	115.5	110.4	121.4
55.0	93.4	100.3	106.9	111.2	114.9	112.7	108.9	118.5
60.0	92.4	98.7	105.0	108.7	111.9	110.9	107.9	116.6
65.0	92.1	98.2	103.7	107.3	110.0	109.3	107.0	115.1
70.0	91.0	97.0	102.6	105.9	108.1	108.0	106.0	113.6
75.0	91.0	96.5	101.5	104.9	107.2	106.6	105.2	112.6
80.0	90.7	96.0	101.3	104.1	105.8	106.0	104.3	112.2
85.0	90.3	95.4	100.7	103.9	104.9	104.8	103.7	110.9
90.0	89.6	95.2	99.8	102.2	104.4	104.4	101.4	110.0
95.0	88.9	94.1	99.1	101.6	103.0	103.8	101.9	109.5
100.0	88.5	94.1	98.8	100.4	103.5	103.5	100.9	109.0
105.0	87.6	93.9	98.2	100.2	103.1	103.0	100.6	108.8
110.0	86.5	92.9	98.0	100.3	102.7	102.8	99.4	108.5
115.0	87.1	92.4	98.2	99.9	102.3	102.3	99.0	107.8

MODEL THRUST = 101.860 FULL SCALE THRUST = 20000.000

L	PWDB	DBSPL	OCTAVE BAND SOUND PRESSURE LEVELS 35.7	71.4	142.7	285.5	570.9	1141.8	2281.0	4496.8	8920.7	17841.3	35682.7
5795.6	87.2	87.1	86.7	73.63	77.64	79.58	78.88	76.19	67.11	49.37	20.84	-29.38	-111.96	-335.11
4385.7	88.0	87.9	89.1	75.46	81.25	83.19	83.28	82.08	75.79	61.08	39.59	-.01	-69.22	-167.16
3549.3	87.5	87.1	92.8	75.93	82.40	87.04	87.47	86.80	81.33	68.81	50.65	18.26	-33.49	-116.49
3000.0	101.1	100.6	95.0	75.42	83.57	89.78	90.76	90.84	85.21	73.73	57.41	30.87	-16.15	-79.39
2615.2	103.5	102.9	94.1	75.04	83.48	90.70	91.63	92.18	87.46	76.86	62.25	38.66	-.88	-54.69
2333.4	105.4	104.8	94.6	75.00	83.46	90.93	92.08	92.98	88.49	78.49	64.58	42.08	4.06	-43.39
2121.1	105.7	105.0	94.6	72.95	81.52	88.57	90.01	90.11	88.60	80.24	67.46	47.65	15.52	-31.44
1958.1	104.2	103.3	97.5	72.14	79.94	86.85	88.09	88.22	86.95	79.93	67.65	47.65	15.52	-31.44
1831.9	102.2	101.1	95.2	71.42	78.46	86.48	87.69	87.98	86.39	79.43	68.80	50.37	22.48	-23.11
1732.1	100.9	99.7	93.6	71.11	77.96	85.96	87.34	87.66	86.07	79.43	68.80	50.85	22.48	-18.14
1655.1	100.2	98.8	92.6	71.06	77.31	85.70	86.98	87.10	85.80	79.84	69.56	51.60	23.38	-13.79
1596.2	99.4	98.1	91.8	70.19	76.61	85.25	86.69	86.75	85.40	79.44	69.56	52.11	23.38	-13.43
1552.9	98.8	97.8	90.2	70.04	76.16	84.96	86.47	86.44	85.08	79.37	69.56	52.11	23.38	-13.43
1519.1	98.6	97.5	90.3	70.08	75.77	84.56	86.14	86.08	84.80	79.24	69.56	52.11	23.38	-13.43
1509.7	97.1	96.8	89.0	70.08	75.58	84.50	86.04	85.99	84.73	79.07	69.28	52.04	24.38	-13.43
1500.4	96.4	96.1	88.8	69.98	75.45	84.35	85.92	85.87	84.64	78.97	69.28	52.04	24.38	-13.43
1505.7	95.7	94.2	87.9	69.10	74.83	83.80	85.42	85.32	84.09	78.34	68.51	51.36	23.76	-14.14
1523.1	95.6	93.6	86.3	68.28	74.03	83.02	84.63	84.54	83.31	77.55	67.63	50.43	22.76	-15.14
1552.9	94.1	92.0	86.7	67.20	73.43	82.46	84.06	83.97	82.73	77.00	67.06	49.86	22.19	-15.67
1586.3	93.1	92.0	86.5	75.43	72.84	82.11	84.38	84.17	82.42	76.77	67.03	49.83	21.91	-16.14
1654.1	92.4	91.3	85.4	69.24	71.66	82.19	84.48	84.27	82.58	76.93	67.18	49.98	21.91	-16.14

RUN NUMBER	= 245.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.000
PRIMARY TEMPERATURE (R)	= 1230.000
SECONDARY TEMPERATURE (R)	= 560.000
PRIMARY PRESSURE RATIO	= 1.400
AREA RATIO	= 1.000
VELOCITY RATIO	= .779
PRIMARY VELOCITY (FT/SEC)	= 1372.131
MASS FLOW RATIO	= 1.742
PRIMARY MASS FLOW (LB/SEC)	= .142
THRUST (LBS)	= 14.227
ENVIRONMENTAL TEMPERATURE (R)	= 553.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.495
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.000
CALIBRATION FACTOR (DY TO DY/SQ CM)	= .038
INSTRUMENTATION NOISE FLOOR (DB)	= 60.586

STATIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.41403E+00	131.5
500	9.49387E-03	109.8
1000	6.67603E-02	118.2
2000	3.02047E-01	124.8
4000	5.03952E-01	127.0
8000	3.55628E-01	125.5
16000	1.30704E-01	121.2
31500	4.54098E-02	116.6

OVERALL SOUND POWER LEVEL+SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.0
20000	163.0
40000	166.0
80000	169.0

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
80.0	89.6	97.4	103.5	102.6	98.1	87.1	81.5	107.2
88.0	86.7	95.8	103.1	104.7	100.9	92.3	85.5	108.4
48.0	83.0	92.1	98.7	103.3	102.0	95.8	89.5	107.3
58.0	79.5	88.2	95.3	98.8	99.2	93.9	88.7	104.8
68.0	76.4	84.4	91.2	94.9	95.2	93.8	90.8	100.9
78.0	74.5	81.9	88.2	91.2	92.6	91.4	87.9	97.7
88.0	74.5	81.1	86.7	89.8	90.9	89.8	85.8	96.8
98.0	73.6	80.2	85.3	88.6	89.1	87.6	84.6	94.4
108.0	72.6	79.6	84.3	88.4	88.1	86.4	83.5	93.3
118.0	71.0	77.8	82.9	85.6	86.7	85.5	83.3	92.2

MODEL THRUST = 14.227 FULL SCALE THRUST = 20000.000

LV	PWR	DBSPL	OCTAVE BAND SOUND PRESSURE LEVELS 13.5	26.7	53.3	106.7	213.4	426.7	848.2	1680.3	3333.9	6667.9	13335.7
8798.8	78.71	78.21	81.1	80.59	73.97	75.40	77.13	71.05	59.36	49.40	37.35	15.18	-24.63	-92.47
4385.9	84.37	83.87	86.7	86.25	79.63	82.05	83.79	77.71	65.93	56.10	43.96	20.91	-22.10	-88.17
3548.3	87.01	86.41	89.7	89.71	82.85	84.60	84.69	78.83	69.28	60.94	52.40	37.78	12.12	-38.80
2888.0	90.71	90.21	93.2	93.10	86.31	87.91	87.10	81.08	73.59	64.81	57.13	46.31	22.18	-18.61
2615.2	92.91	91.51	91.8	88.81	77.75	85.63	84.34	85.53	76.78	66.27	61.14	49.83	29.83	-2.33
2171.3	96.21	95.11	93.4	88.87	75.68	87.92	88.40	88.68	81.42	73.75	67.44	57.50	46.95	14.22
1898.1	98.91	98.41	96.9	93.49	78.68	91.87	92.99	94.21	86.35	78.95	68.78	59.38	49.88	18.87
1831.2	99.81	99.31	97.2	94.05	79.87	94.58	93.47	94.59	86.77	79.15	70.29	61.38	48.61	23.12
1732.1	97.91	97.41	97.8	93.87	81.09	98.81	98.15	94.19	86.33	78.98	69.76	61.87	47.81	24.83
1655.1	91.51	90.31	89.5	83.55	78.03	78.45	83.93	81.71	79.41	74.58	64.62	57.58	44.83	25.41
1597.9	90.91	90.41	89.2	82.78	69.98	75.14	78.92	76.04	77.65	72.73	67.38	59.55	47.27	28.58
1523.1	89.21	88.71	88.1	82.93	69.85	75.18	78.88	76.06	78.78	73.96	67.18	59.17	48.49	28.18
1538.7	88.81	88.31	87.6	82.76	69.83	74.71	77.53	74.65	76.39	72.24	66.89	58.87	48.35	28.59
1588.6	89.81	89.31	88.2	82.15	69.87	73.79	76.87	73.89	75.57	71.55	65.71	58.38	48.72	28.08
1555.7	91.11	90.61	90.1	81.65	67.78	73.14	75.96	73.46	74.67	70.72	65.37	57.66	46.82	26.07
1523.1	88.41	87.91	87.5	80.95	66.54	72.51	75.30	72.80	74.10	70.28	64.99	57.17	46.13	26.13
1598.8	88.81	88.31	87.9	80.65	66.55	71.68	74.24	71.95	73.27	69.48	64.48	56.38	43.68	23.09
1564.5	85.21	84.81	84.6	80.88	65.91	70.68	73.67	71.48	72.88	69.11	63.98	55.88	42.69	21.97
1659.1	86.21	85.81	84.1	80.11	66.53	70.13	72.68	73.98	72.19	68.29	62.78	54.79	40.72	19.20

RUN NUMBER	= PR6.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 1242.000
SECONDARY TEMPERATURE (R)	= 570.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 2.007
VELOCITY RATIO	= .370
PRIMARY VELOCITY (FT/SEC)	= 1374.346
MASS FLOW RATIO	= 1.333
PRIMARY MASS FLOW (LB/SEC)	= .143
THRUST (LBS)	= 9.136
ENVIRONMENTAL TEMPERATURE (R)	= 554.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.490
ENVIRONMENTAL HUMIDITY (PER CENT)	= 30.000
CALIBRATION FACTOR (MV TO DYN/SQ CM)	= .0022
INSTRUMENTATION NOISE FLOOR (DB)	= 56.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR NOZZLE JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.38995E-01	126.4
500	1.30292E-03	101.1
1000	9.22017E-03	109.1
2000	5.52101E-02	117.4
4000	1.59225E-01	121.9
8000	1.53551E-01	121.9
16000	4.91790E-02	116.9
31500	1.63001E-02	112.1

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	150.8
20000	159.8
40000	162.8
80000	165.8

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	83.4	88.6	95.6	98.4	98.3	90.6	81.1	102.9
20.0	79.1	88.5	96.4	99.5	99.3	91.6	84.1	103.6
25.0	78.7	87.8	96.3	100.3	99.7	91.5	83.6	104.3
30.0	77.1	86.4	95.3	100.0	98.9	91.4	85.1	103.7
35.0	76.3	84.7	94.1	99.4	98.3	91.7	83.6	103.1
40.0	74.6	83.4	92.1	97.5	97.6	92.3	86.9	101.9
45.0	72.4	81.1	89.8	95.4	95.4	91.0	84.8	100.0
50.0	70.0	78.8	87.2	92.5	93.0	91.2	86.4	96.8
55.0	67.9	76.8	84.1	89.8	91.2	89.9	85.7	93.9
60.0	67.0	74.6	82.2	87.2	89.7	88.2	84.4	92.1
65.0	66.1	73.5	80.9	85.7	88.2	86.7	83.3	92.7
70.0	65.1	73.1	79.7	84.4	87.0	85.4	82.5	91.6
75.0	65.1	71.9	79.0	83.6	86.2	84.6	81.4	90.5
80.0	65.1	71.6	78.1	82.3	84.4	82.6	79.5	89.8
85.0	64.5	71.3	77.5	81.6	83.6	82.0	79.0	88.9
90.0	64.8	170.4	76.5	80.3	82.3	80.8	78.2	89.2
95.0	63.9	70.6	75.9	79.6	81.6	79.9	77.3	88.3
100.0	62.6	69.1	74.8	78.7	80.3	78.8	76.4	85.3
105.0	63.9	68.9	74.1	78.0	80.1	78.8	75.8	84.0
110.0	61.8	68.6	73.4	77.5	79.1	77.8	75.6	86.2
115.0	61.9	67.9	73.1	77.0	78.8	76.5	74.8	83.3

NOZZLE THRUST = 9.136 FULL SCALE THRUST = 20000.000

LV	SWPR	OASPL	OCTAVE 10.7	BAND 21.4	SOUND 42.7	PRESSURE 85.5	LEVELS 171.0	342.0	683.3	1366.5	2671.6	5365.3	10690.6
8765.4	80.51	79.51	81.8	82.31	87.28	78.19	78.47	78.45	86.46	84.26	45.30	27.25	-6.04	-43.85
8345.7	80.61	83.51	86.7	88.19	89.88	87.99	86.68	79.48	91.91	81.89	93.59	38.19	13.23	-31.35
8540.3	87.21	85.91	87.9	91.69	78.74	74.21	93.17	82.29	73.48	84.79	87.53	45.91	23.74	-12.91
8988.6	80.81	88.91	89.4	91.65	79.85	74.85	84.78	83.68	74.91	87.15	89.98	48.75	31.87	-.30
8615.2	84.41	87.71	89.5	91.89	78.78	74.76	84.78	83.78	74.58	89.80	42.48	53.85	34.48	9.48
8333.4	84.61	88.11	89.5	91.83	78.65	74.67	83.98	83.58	74.78	87.78	85.89	58.78	41.98	19.93
8121.3	83.61	87.31	87.3	89.88	88.69	77.19	87.41	82.84	74.15	72.42	85.88	58.37	44.28	21.22
8958.1	80.81	88.71	89.1	91.98	88.99	79.53	88.54	81.75	78.45	73.48	88.85	59.96	49.75	25.21
8831.2	89.71	85.61	88.6	90.58	85.88	72.78	77.88	78.98	78.83	72.98	87.78	88.81	47.66	27.12
8732.1	88.71	88.21	89.1	90.22	85.78	71.33	76.15	78.72	78.44	72.28	87.18	58.88	47.81	24.23
8655.1	80.81	83.21	82.1	85.78	83.13	73.66	75.26	77.66	78.85	71.34	85.66	58.38	47.71	25.49
8598.3	80.71	81.61	80.5	84.03	81.98	74.46	74.86	76.98	78.29	71.19	84.87	58.19	47.78	26.46
8552.4	84.31	81.51	80.5	85.23	82.01	89.15	73.46	76.02	76.12	70.62	85.56	58.63	47.61	26.72
8523.1	83.91	80.41	79.2	83.68	81.81	88.36	72.81	76.53	76.44	69.81	85.78	58.85	47.85	26.88
8505.7	83.31	79.61	78.6	82.93	81.76	87.87	71.76	75.89	75.93	68.45	85.76	58.83	47.85	26.72
8500.6	82.21	79.21	77.5	82.87	81.69	86.98	72.78	75.78	75.68	68.65	85.65	58.75	48.81	26.73
8505.7	81.91	77.31	75.4	80.38	80.45	86.36	69.87	75.45	74.83	68.54	81.75	58.45	47.98	26.73
8523.1	80.11	78.11	76.4	81.03	80.81	86.78	70.66	75.66	74.98	68.61	82.86	58.58	47.78	26.78
8552.4	79.11	75.11	73.4	78.02	78.23	84.19	68.65	74.65	74.56	68.57	82.4	58.57	47.78	26.77
8598.3	78.61	74.01	74.8	77.91	76.93	83.27	67.98	73.88	73.99	68.27	79.95	58.1	48.86	27.77
8655.1	76.91	72.91	72.8	76.62	75.63	82.71	66.91	73.49	73.37	68.03	79.88	58.	48.58	27.88

RUN NUMBER	
AXIAL POSITION OF PRIMARY NNT. SECONDARY (INS.)	= 287.00 (754.00)
PRIMARY TEMPERATURE (R)	= 9.A00
SECONDARY TEMPERATURE (R)	= 1265.000
PRIMARY PRESSURE RATIO	= 553.000
AREA RATIO	= 7.A00
VELOCITY RATIO	= 2.807
PRIMARY VELOCITY (FT/SEC)	= .8X6
MASS FLOW RATIO	= 1376.006
PRIMARY MASS FLOW (LB/SEC)	= 2.919
THRUST (LBS)	= .165
ENVIRONMENTAL TEMPERATURE (R)	= 18.041
ENVIRONMENTAL PRESSURE (IN.HG)	= 553.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 24.490
CALIBRATION FACTOR (DB TO DYNES/CM)	= 33.000
INSTRUMENTATION NOISE FLOOR (DB)	= .052
	= 63.554

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL (DB)
OVERALL	2.31245E+00	133.6
500	9.50670E-03	109.8
1000	6.44913E-02	118.1
2000	3.30873E-01	125.2
4000	1.10055E-01	120.4
8000	7.18077E-01	128.6
16000	2.03442E-01	123.1
31500	1.23713E-01	120.9

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL (DB)
10000	109.9
20000	103.9
40000	107.9
80000	170.0

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND SOUND PRESSURE LEVELS 1000	2000	4000	8000	16000	31500	OVER ALL
15.0	84.0	97.0	102.1	103.0	102.0	95.0	89.0	109.9
20.0	89.2	97.3	104.1	106.0	105.1	98.5	91.0	110.5
25.0	88.0	96.9	104.9	107.0	105.0	99.2	93.0	111.5
30.0	87.4	96.2	104.1	104.9	103.6	98.6	93.0	111.2
35.0	85.5	94.8	102.8	103.8	102.9	97.1	90.8	111.3
40.0	83.0	92.9	101.0	101.8	101.2	95.3	88.9	110.9
45.0	82.9	90.8	98.5	100.4	100.1	94.3	88.3	109.2
50.0	80.2	88.7	96.9	100.8	101.6	96.0	91.3	110.3
55.0	80.1	87.8	96.8	99.6	99.5	94.3	88.5	108.5
60.0	77.1	86.3	97.3	98.3	98.8	97.1	94.3	108.1
65.0	77.8	85.8	96.8	98.7	98.3	96.4	92.8	108.6
70.0	76.9	84.3	95.1	96.9	96.5	93.7	90.7	107.1
75.0	76.0	83.9	94.8	96.2	96.3	93.4	90.2	106.8
80.0	75.9	83.5	94.4	96.3	96.2	93.4	90.5	106.8
85.0	75.8	82.8	93.8	95.8	95.4	92.6	89.2	106.3
90.0	75.2	82.1	93.4	95.1	95.0	92.4	89.0	106.0
95.0	75.2	82.1	93.3	95.1	95.0	92.4	89.0	106.0
100.0	74.4	81.9	93.0	94.8	94.7	92.2	89.0	105.8
105.0	73.6	81.1	92.3	94.1	94.0	91.5	88.3	105.1
110.0	73.1	80.1	91.3	93.1	93.0	90.5	87.3	104.0
115.0	73.1	79.1	90.3	92.2	92.1	89.6	86.4	103.1

MODEL THRUST = 10.841 FULL SCALE THRUST = 20000.000

LV	OCTAVE BAND SOUND PRESSURE LEVELS 15.3	34.5	91.1	182.1	368.2	448.5	881.7	1823.4	3810.2	7832.4	15760.7
8795.6	84.8(83.4(	83.5	69.38	73.16	77.44	78.04	77.27	68.55	56.84	43.28	18.54	-26.07	-168.55
8385.7	89.8(88.7(	88.1	87.21	91.70	95.88	93.81	92.03	84.02	74.34	63.37	33.86	-.83	-57.73
8549.3	92.7(91.6(	90.9	88.35	96.59	94.36	87.84	85.12	77.38	64.07	59.56	43.19	16.78	-32.87
8880.8	95.2(93.9(	92.7	90.78	97.92	99.02	94.91	87.33	85.73	72.48	64.19	49.86	25.68	-10.80
8615.7	93.8(92.5(	93.0	87.49	93.35	95.10	90.55	88.02	82.82	75.35	67.49	55.16	33.69	-1.85
8721.3	94.5(93.3(	92.2	88.79	95.54	96.45	87.59	87.01	83.43	77.11	70.38	59.36	41.11	11.94
8538.1	95.7(93.1(	92.9	89.79	93.76	98.98	95.72	89.81	87.81	77.91	71.25	59.59	41.86	14.59
8931.2	94.9(92.8(	89.7	84.72	93.39	99.12	93.54	84.88	82.45	74.41	71.71	61.44	45.48	26.18
8732.1	94.9(91.4(	88.8	84.18	92.91	97.24	93.81	87.29	79.17	72.01	63.52	47.88	22.72
8885.1	93.4(93.0(	87.9	84.10	91.48	99.87	91.16	83.72	81.19	77.69	71.27	62.67	47.18	23.77
8542.9	92.1(92.0(	89.2	83.73	91.77	98.93	91.38	83.81	82.81	77.91	70.90	61.91	47.24	25.75
8523.1	91.3(92.8(	88.1	83.98	91.24	96.59	94.84	85.48	79.41	74.46	70.61	61.78	47.63	25.48
8569.9	92.4(92.0(	85.5	83.45	90.89	95.59	94.39	89.95	79.98	74.49	69.73	61.68	47.88	25.27
8588.6	93.0(92.0(	84.9	83.05	90.15	95.15	94.24	90.65	79.39	74.78	69.62	62.19	46.59	25.68
8555.7	93.3(92.8(	84.4	82.58	89.88	94.78	93.98	90.18	78.73	74.58	69.39	62.78	46.92	25.83
8573.1	94.4(93.2(	84.3	82.52	89.1	94.27	93.83	90.19	78.73	73.86	69.12	62.65	46.59	25.83
8562.9	96.2(94.5(	84.9	83.03	89.23	94.38	94.22	90.23	78.93	74.06	69.19	62.78	46.92	25.83
8567.9	97.2(95.1(	85.7	83.46	89.19	94.48	94.22	90.16	78.96	74.07	69.19	62.87	46.92	25.83
8599.1	97.2(95.7(	86.2	84.37	89.69	94.91	94.16	90.16	79.37	74.46	69.46	62.98	47.01	25.83

AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	288.000
PRIMARY TEMPERATURE (R)	1110.000
SECONDARY TEMPERATURE (R)	1540.000
PRIMARY PRESSURE RATIO	993.000
AREA RATIO	1.000
VELOCITY RATIO	2.007
PRIMARY VELOCITY (FT/SEC)	.748
MASS FLOW RATIO	1370.765
PRIMARY MASS FLOW (LBF/SEC)	3.575
THRUST (LBS)	.164
ENVIRONMENTAL TEMPERATURE (R)	23.189
ENVIRONMENTAL PRESSURE (IN.HG)	551.000
ENVIRONMENTAL HUMIDITY (PER CENT)	29.490
CALIBRATION FACTOR (ADD TO OVERALL SPL)	30.000
INSTRUMENTATION NOISE FLOOR (DB)	.003
	65.506

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL-SCALED FOR THRUST	
OVERALL	3.458650E+00	136.6	THRUST	POWER LEVEL(DB)
500	1.484408E-02	112.3	18000	167.3
1000	1.119319E-01	120.5	28800	165.3
2000	5.335015E-01	127.3	50000	169.3
4000	1.822417E+00	132.6	80000	171.3
8000	1.247113E+00	131.0		
16000	9.409041E-01	129.7		
31500	2.499408E-01	123.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OVER
10.0	91.5	99.3	104.3	104.3	103.3	99.3	93.3	111.3
20.0	90.1	98.5	103.0	103.3	103.0	98.0	92.2	111.0
30.0	89.5	97.8	102.8	102.7	102.4	98.0	92.4	110.8
35.0	89.4	96.9	102.5	102.4	102.3	98.0	92.4	110.8
40.0	89.4	96.9	102.3	102.2	102.0	97.8	92.3	110.6
45.0	89.4	96.9	102.3	102.2	102.0	97.8	92.3	110.6
50.0	89.0	96.9	102.2	102.0	101.8	97.8	92.3	110.6
55.0	88.9	96.8	102.0	101.9	101.7	97.8	92.3	110.6
60.0	88.9	96.8	101.9	101.9	101.7	97.8	92.3	110.6
65.0	88.9	96.8	101.9	101.9	101.7	97.8	92.3	110.6
70.0	88.9	96.8	101.9	101.9	101.7	97.8	92.3	110.6
75.0	88.9	96.8	101.9	101.9	101.7	97.8	92.3	110.6
80.0	88.9	96.8	101.9	101.9	101.7	97.8	92.3	110.6
85.0	88.9	96.8	101.9	101.9	101.7	97.8	92.3	110.6
90.0	88.9	96.8	101.9	101.9	101.7	97.8	92.3	110.6
95.0	88.9	96.8	101.9	101.9	101.7	97.8	92.3	110.6
100.0	88.9	96.8	101.9	101.9	101.7	97.8	92.3	110.6
105.0	88.9	96.8	101.9	101.9	101.7	97.8	92.3	110.6
110.0	88.9	96.8	101.9	101.9	101.7	97.8	92.3	110.6
115.0	88.9	96.8	101.9	101.9	101.7	97.8	92.3	110.6

MODEL THRUST = 23.163 FULL SCALE THRUST = 28570.480

ANGLE	500			17.0	34.0	68.3	135.1	270.3	540.5	1079.2	2160.1	4320.3	8640.7	17281.5
5384.6	83.8	83.3	83.2	88.44	93.37	97.83	99.13	96.36	89.97	81.95	81.92	85.53	102.67	116.19
4846.2	89.3	89.6	89.7	94.97	96.92	99.14	99.32	91.48	73.49	63.01	61.39	68.59	89.83	104.36
3569.3	92.8	92.8	91.1	93.64	97.42	96.04	97.19	94.21	74.15	64.55	58.18	67.32	91.48	104.96
3288.9	95.4	94.8	92.8	93.84	96.97	99.96	99.89	89.57	85.92	75.97	67.84	69.17	91.94	101.33
2615.9	97.5	96.9	95.2	94.64	97.71	95.15	99.26	94.44	83.71	74.18	69.66	53.76	88.28	97.69
2333.3	98.8	98.1	97.5	97.99	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
2121.4	97.5	95.9	93.9	87.83	98.34	99.13	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1950.1	97.3	96.1	95.4	95.44	96.79	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1821.9	95.9	95.0	94.2	95.28	97.83	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1732.1	96.9	96.3	96.2	96.96	98.91	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1655.1	96.3	96.2	96.3	96.63	97.95	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1594.9	97.0	97.0	97.0	97.99	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1542.9	97.3	97.0	96.9	96.81	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1523.1	97.3	96.9	96.2	96.21	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1505.7	97.1	96.9	96.1	96.08	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1490.5	97.2	97.0	96.3	96.07	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1476.9	97.1	96.9	96.3	96.08	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1464.7	97.1	96.9	96.3	96.08	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1453.8	97.1	96.9	96.3	96.08	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1444.0	97.1	96.9	96.3	96.08	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1435.2	97.1	96.9	96.3	96.08	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1427.3	97.1	96.9	96.3	96.08	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1420.2	97.1	96.9	96.3	96.08	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1413.8	97.1	96.9	96.3	96.08	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1408.0	97.1	96.9	96.3	96.08	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1402.7	97.1	96.9	96.3	96.08	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1397.9	97.1	96.9	96.3	96.08	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1393.5	97.1	96.9	96.3	96.08	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99
1389.5	97.1	96.9	96.3	96.08	97.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99

RUN NUMBER	=	889.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	9.000
PRIMARY TEMPERATURE (R)	=	1247.000
SECONDARY TEMPERATURE (R)	=	550.000
PRIMARY PRESSURE RATIO	=	1.800
AREA RATIO	=	4.054
VELOCITY RATIO	=	.383
PRIMARY VELOCITY (FT/SEC)	=	1377.109
MASS FLOW RATIO	=	3.571
PRIMARY MASS FLOW (LB/SEC)	=	.143
THRUST (LBS)	=	16.076
ENVIRONMENTAL TEMPERATURE (R)	=	550.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.490
ENVIRONMENTAL HUMIDITY (PER CENT)	=	31.000
CALIBRATION FACTOR FOR [illegible]	=	.032
INSTRUMENTATION NOISE FLOOR (DB)	=	59.573

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL [illegible]

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.101452E+00	130.4
500	6.562031E-03	[illegible]
1000	[illegible]	[illegible]
2000	[illegible]	133.6
4000	[illegible]	[illegible]
8000	[illegible]	128.6
16000	[illegible]	[illegible]
32000	[illegible]	[illegible]

OVERALL SOUND POWER LEVEL-SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.9
20000	161.9
40000	165.0
80000	168.0

EXPERIMENTAL DATA

TABLE [illegible] OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE		OCTAVE	BAND	SOUND	PRESSURE	LEVELS		OASPL
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MODEL THRUST = 16.076 FULL SCALE THRUST = [illegible]

[illegible]					OCTAVE	BAND	SOUND	PRESSURE	LEVELS						
				13.2	26.5	53.0	106.1	212.2	424.5	848.9	1697.8	3395.6	6791.3	13582.5	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NUMBER	= 290.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.800
PRIMARY TEMPERATURE (R)	= 1241.000
SECONDARY TEMPERATURE (R)	= 548.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 4.856
VELOCITY RATIO	= .686
PRIMARY VELOCITY (FT/SEC)	= 1373.792
MASS FLOW RATIO	= 7.626
PRIMARY MASS FLOW (LB/SEC)	= .147
THRUST (LBS)	= 39.002
ENVIRONMENTAL TEMPERATURE (R)	= 548.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.570
ENVIRONMENTAL HUMIDITY (PER CENT)	= 5.000
CALIBRATION FACTOR (DY TO BY/30 CM)	= .936
INSTRUMENTATION NOISE FLOOR (DB)	= 60.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.64825E+00	134.2
500	3.86823E-02	115.9
1000	2.13290E-01	123.3
2000	6.77189E-01	128.3
4000	7.24963E-01	128.6
8000	5.39637E-01	127.3
16000	3.07094E-01	124.9
31500	1.46793E-01	121.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	155.3
20000	161.3
40000	164.3
80000	167.3

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	94.6	99.9	101.4	97.7	91.3	86.4	80.6	105.4
20.0	93.8	100.8	103.1	99.0	93.6	88.3	84.8	106.6
25.0	93.7	100.2	104.0	100.2	94.1	89.6	86.0	107.2
30.0	91.4	99.4	104.5	102.2	95.7	91.5	88.4	107.8
35.0	90.4	98.3	104.1	104.1	99.1	93.9	90.9	108.5
40.0	88.5	97.2	103.6	104.5	101.0	95.5	91.2	108.7
45.0	87.2	95.6	102.2	103.7	102.4	96.1	93.7	108.6
50.0	85.8	94.9	100.6	102.6	101.7	98.3	94.0	107.6
55.0	84.9	93.8	99.4	101.0	101.2	98.6	94.8	106.8
60.0	84.7	92.8	98.2	99.3	99.7	97.8	94.2	105.5
65.0	84.5	92.1	97.5	98.6	99.0	97.3	94.2	104.9
70.0	84.3	91.0	96.2	97.6	97.9	96.4	93.5	103.8
75.0	83.3	90.8	95.9	95.9	97.1	95.8	93.9	103.2
80.0	83.1	90.0	95.1	96.3	96.6	95.3	92.5	102.7
85.0	81.9	89.0	94.1	95.2	95.7	94.7	91.9	101.8
90.0	82.6	88.9	94.0	95.3	95.4	94.2	91.3	101.5
95.0	81.3	88.1	93.2	94.4	94.9	93.9	91.7	101.0
100.0	80.6	87.6	92.3	93.7	94.5	93.6	91.4	100.5
105.0	80.1	86.5	91.7	93.2	93.9	93.1	90.9	99.9
110.0	78.6	85.7	91.2	92.7	93.4	92.4	90.3	99.4
115.0	73.6	84.2	90.4	92.5	93.0	92.2	89.8	99.0

MODEL THRUST = 39.002 FULL SCALE THRUSY = 20000.000

LP	PNDBT	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 22.1	44.2	88.3	176.6	353.3	706.6	1391.0	2782.1	5520.0	11039.9	22079.9
5795.6	74.7(74.4)	77.5	67.02	72.27	73.58	69.51	62.31	53.96	43.01	24.18	-9.79	-69.00	-163.39
4385.7	79.4(79.1)	81.2	68.57	75.56	77.75	73.41	67.07	59.43	50.84	35.56	9.13	-36.41	-108.56
3549.3	83.0(82.3)	83.0	70.31	76.84	80.58	76.49	69.71	63.07	55.36	42.66	20.70	-16.73	-75.69
3000.0	86.4(85.5)	85.7	69.56	77.82	82.56	79.97	72.88	67.15	60.32	49.13	30.10	-2.00	-52.31
2615.2	89.6(88.5)	87.5	69.75	77.60	83.37	83.15	77.63	71.03	64.40	54.26	37.29	8.92	-35.32
2330.6	91.3(90.1)	89.0	68.42	77.32	83.81	84.52	80.58	73.86	66.84	57.27	41.80	16.17	-23.63
2121.3	93.2(91.8)	89.1	68.34	76.74	83.23	84.65	82.89	77.42	70.45	61.65	47.32	23.74	-12.71
1958.1	93.5(91.9)	88.9	67.57	76.68	82.57	84.18	83.95	78.46	71.79	63.44	49.98	27.99	-5.89
1831.2	93.9(92.0)	88.6	67.32	76.23	81.72	83.21	83.01	79.64	73.48	65.47	52.69	31.93	.05
1732.1	93.2(91.3)	87.8	67.63	75.69	81.05	81.99	82.04	79.82	73.48	65.75	53.49	33.69	3.38
1655.1	93.3(91.1)	87.6	67.75	75.34	80.74	81.69	81.83	79.25	74.03	66.51	54.67	35.62	6.52
1596.3	92.7(90.5)	86.9	67.48	74.62	79.84	80.79	81.00	78.71	73.84	66.48	54.93	36.40	8.29
1552.9	92.3(90.0)	86.5	67.11	74.62	79.72	80.54	80.45	78.33	73.66	66.42	55.12	37.06	9.57
1523.1	91.9(89.6)	86.1	67.07	73.95	79.06	80.17	80.15	78.01	73.35	66.19	55.05	37.28	10.26
1505.7	91.3(88.9)	85.3	66.01	73.06	78.17	79.18	79.38	77.59	72.91	65.80	54.76	37.15	10.41
1500.6	90.9(88.6)	85.1	66.76	72.98	78.06	79.30	79.06	77.09	72.35	65.25	54.23	36.68	10.03
1505.7	90.5(88.1)	84.5	65.36	72.20	77.21	78.32	78.51	76.75	72.71	65.60	54.56	36.95	10.21
1523.1	90.0(87.6)	83.9	64.97	71.49	76.52	77.51	78.05	76.32	72.24	65.07	53.94	36.10	9.15
1552.9	89.2(86.7)	83.1	63.96	70.31	75.90	76.98	77.22	75.65	71.50	64.26	52.96	34.90	7.41
1596.3	88.3(85.9)	82.3	62.82	69.20	74.70	76.13	76.52	74.68	70.68	63.28	51.75	33.26	5.09
1655.1	87.6(85.1)	81.6	61.73	67.46	73.66	75.65	75.81	74.15	69.71	62.19	50.35	31.30	2.20

RUN NUMBER	= 291.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.890
PRIMARY TEMPERATURE (R)	= 1242.000
SECONDARY TEMPERATURE (R)	= 547.000
PRIMARY PRESSURE RATIO	= 1.680
AREA RATIO	= 4.856
VELOCITY RATIO	= .762
PRIMARY VELOCITY (FT/SEC)	= 1374.346
MASS FLOW RATIO	= 8.422
PRIMARY MASS FLOW (LB/SEC)	= .148
THRUST (LBS)	= 48.908
ENVIRONMENTAL TEMPERATURE (R)	= 544.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.570
ENVIRONMENTAL HUMIDITY (PER CENT)	= 9.000
CALIBRATION FACTOR (MV TO DYNES/CM)	= .048
INSTRUMENTATION NOISE FLOOR (DB)	= 63.150

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.05135E+00	137.0
500	7.23263E-02	118.6
1000	3.99127E-01	126.0
2000	1.30232E+00	131.1
4000	1.33617E+00	131.3
8000	1.01818E+00	130.1
16000	6.13115E-01	127.9
31500	3.10112E-01	124.9

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.1
20000	163.2
40000	166.2
80000	169.2

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	97.9	102.7	104.4	101.9	95.2	90.7	86.6	108.5
20.0	95.2	103.3	105.1	101.9	96.8	92.5	89.1	109.0
25.0	96.2	102.8	106.6	103.3	98.1	93.6	89.9	110.0
30.0	95.0	102.4	106.9	104.3	99.3	95.4	91.9	110.4
35.0	93.1	100.9	106.8	106.0	101.6	97.3	93.3	110.9
40.0	91.8	99.9	106.1	106.5	103.7	99.0	94.7	111.2
45.0	90.2	99.3	104.8	105.9	104.4	100.4	96.2	110.8
50.0	88.5	97.4	103.8	105.0	104.1	100.6	96.3	110.1
55.0	87.5	96.2	102.7	103.6	103.1	100.7	97.5	109.2
60.0	86.9	95.7	101.7	102.5	102.3	100.4	97.2	108.5
65.0	87.3	94.9	100.4	101.2	101.5	100.0	97.2	107.8
70.0	86.5	94.1	99.6	101.0	101.1	99.5	96.4	107.1
75.0	86.1	94.1	99.3	100.4	100.3	98.9	96.3	106.5
80.0	85.7	93.0	98.1	99.6	99.8	98.3	95.7	105.8
85.0	84.8	91.8	97.2	98.7	98.7	97.7	95.3	104.9
90.0	84.8	91.1	96.7	98.3	98.6	97.5	95.1	104.7
95.0	84.0	90.5	96.4	97.7	98.3	97.6	95.5	104.4
100.0	83.3	90.0	95.7	97.3	97.9	97.1	94.8	103.9
105.0	82.1	89.2	95.0	96.5	97.3	97.0	94.5	103.4
110.0	81.5	88.5	94.6	96.3	97.2	96.7	94.5	103.2
115.0	81.0	87.4	94.1	96.1	96.7	96.5	94.6	102.9

MODEL THRUST = 48.908 FULL SCALE THRUST = 20000.000

LV	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 24.7	49.5	98.9	197.8	395.6	791.2	1557.7	3115.4	6181.4	12362.8	24725.5
5795.6	78.3(78.1)	79.5	69.31	74.04	75.63	72.01	64.57	56.51	44.17	23.34	-13.98	-78.27	-179.21
4386.7	82.4(82.0)	82.5	69.04	77.10	78.73	75.17	69.07	62.01	52.48	35.99	7.03	-42.36	-119.47
3549.3	86.0(85.4)	85.4	71.83	78.48	82.17	78.50	72.47	65.77	57.13	43.21	19.20	-21.34	-84.32
3000.0	88.8(88.1)	87.2	72.12	79.46	83.88	81.11	75.37	69.59	61.88	49.66	28.89	-5.84	-59.53
2615.2	91.6(90.7)	86.9	71.37	79.18	85.03	84.00	79.02	73.12	65.38	54.34	35.85	5.20	-42.00
2333.6	93.5(92.5)	90.1	71.07	79.23	85.83	85.50	82.19	76.01	69.44	58.26	41.44	13.78	-28.87
2121.3	94.8(93.6)	90.4	70.32	78.40	84.91	85.69	83.78	78.48	71.30	61.77	46.21	20.78	-18.07
1958.1	95.4(94.0)	90.6	69.31	78.26	84.61	85.02	84.19	79.52	72.49	63.47	48.87	25.16	-10.92
1831.2	95.6(93.9)	90.0	68.90	77.57	84.03	84.78	83.83	80.37	74.52	65.89	52.05	29.68	-4.24
1732.1	95.5(93.7)	89.7	68.64	77.56	83.52	84.21	83.63	80.64	74.96	66.63	53.37	32.05	-.21
1655.1	95.4(93.4)	89.2	69.40	77.16	82.60	83.32	83.23	80.65	75.58	67.49	54.69	34.19	3.23
1596.1	95.2(93.0)	89.0	69.07	76.73	82.20	83.37	83.12	80.51	75.23	67.32	54.87	34.99	5.01
1552.9	94.0(92.9)	88.8	68.91	76.97	82.13	83.08	82.55	80.21	75.47	67.69	55.50	36.07	6.03
1523.1	94.5(92.5)	88.1	68.76	75.99	81.04	82.41	82.23	79.82	75.10	67.42	55.40	36.29	7.55
1505.7	93.9(91.7)	87.4	67.96	74.93	80.30	81.67	81.31	79.31	74.83	67.20	55.29	36.36	7.92
1500.0	93.7(91.5)	87.1	67.99	74.19	79.85	81.32	81.25	79.19	74.66	67.02	55.14	36.28	7.97
1505.7	93.5(91.2)	86.8	67.08	73.65	79.45	80.67	80.88	79.27	74.07	67.44	55.52	36.60	8.15
1523.1	92.8(90.6)	86.2	66.30	73.41	78.84	80.15	80.41	78.99	74.20	66.51	54.50	35.39	6.69
1552.9	92.1(89.8)	85.4	64.91	72.05	77.84	79.13	79.58	78.31	73.64	65.86	53.67	34.24	5.00
1596.3	91.6(89.4)	84.9	64.16	71.09	77.11	78.70	79.29	77.74	73.29	65.38	52.93	33.05	3.28
1655.1	90.9(88.7)	84.2	63.31	69.72	76.32	78.20	78.44	77.15	72.97	64.88	52.68	31.58	.61

RUN NUMBER	= 303.00 (753.00)
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INCH)	= 9.810
PRIMARY TEMPERATURE (R)	= 1312.000
SECONDARY TEMPERATURE (R)	= 570.000
PRIMARY PRESSURE RATIO	= 3.590
AREA RATIO	= 1.000
VELOCITY RATIO	= .347
PRIMARY VELOCITY (FT/SEC)	= 2182.034
MASS FLOW RATIO	= .827
PRIMARY MASS FLOW (LB/SEC)	= .275
THRUST (LBS)	= 23.119
ENVIRONMENTAL TEMPERATURE (F)	= 554.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.750
ENVIRONMENTAL HUMIDITY (PER CENT)	= 22.000
CALIBRATION FACTOR (MV TO DYN/SQ CM)	= .178
INSTRUMENTATION NOISE FLOOR (DB)	= 74.588

JUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.00074E+01	146.0
500	6.10995E-02	117.9
1000	3.05899E-01	127.0
2000	2.98428E+00	134.7
4000	8.51003E+00	139.3
8000	1.45992E+01	141.6
16000	9.51658E+00	139.8
31500	3.82833E+00	135.8

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	172.4
20000	175.4
40000	178.4
80000	181.4

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.7	106.0	111.0	112.9	111.5	105.0	97.1	117.7
20.0	97.6	106.7	112.7	114.0	113.7	108.7	102.6	119.1
25.0	96.3	106.1	113.2	115.5	116.1	112.4	106.6	120.8
30.0	94.7	104.8	113.0	116.4	117.6	115.1	109.9	122.2
35.0	92.5	102.7	112.2	117.2	118.7	116.8	112.3	123.2
40.0	90.8	100.6	110.1	116.7	119.0	117.0	112.3	123.1
45.0	88.3	98.0	107.6	114.1	116.3	116.0	111.5	122.0
50.0	86.2	95.5	104.5	112.1	116.3	114.7	110.4	120.1
55.0	84.6	93.0	101.3	108.3	112.7	111.0	108.5	117.0
60.0	83.1	91.5	98.6	105.0	109.4	109.5	106.9	114.3
65.0	82.5	90.1	97.3	103.0	107.8	107.4	105.5	112.3
70.0	82.5	89.3	96.1	101.9	105.5	105.9	104.1	110.8
75.0	81.7	88.5	95.0	100.1	103.4	103.9	103.2	109.1
80.0	81.9	88.1	94.5	99.3	102.3	103.1	102.0	108.1
85.0	81.3	87.5	94.1	98.3	101.5	102.2	101.0	107.3
90.0	80.6	86.7	93.2	97.4	101.1	101.5	100.3	106.6
95.0	80.6	86.4	92.5	96.6	100.5	100.8	99.5	105.9
100.0	79.0	85.5	91.9	96.1	99.8	99.9	98.8	105.2
105.0	79.0	85.1	91.4	95.4	99.0	99.3	98.2	104.5
110.0	78.1	84.6	90.1	94.7	97.9	98.7	97.7	103.7
115.0	79.0	84.0	89.8	94.5	97.9	98.3	97.1	103.5

MODEL THRUST = 23.119 FULL SCALE THRUST = 20000.000

LP	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 17.0	34.0	68.0	136.0	272.0	544.0	1071.0	2142.0	4249.9	8499.9	16999.7
3795.6	92.9(92.4)	91.7	73.32	81.42	86.45	87.19	84.99	77.10	65.23	50.32	23.15	-25.42	-105.45
3385.7	98.0(97.2)	95.6	74.68	83.81	89.66	90.83	89.89	83.27	73.25	61.23	39.94	2.46	-58.83
3549.3	102.6(101.8)	99.1	75.20	84.99	92.02	93.96	94.32	87.32	80.27	69.97	52.17	21.27	-28.91
3000.0	106.2(104.8)	101.9	75.10	85.13	93.35	96.61	97.39	93.74	85.90	76.73	61.22	34.63	-8.24
2615.2	108.6(106.9)	104.0	74.03	84.30	93.77	98.45	99.74	96.85	90.01	81.63	67.72	44.16	6.40
2383.4	110.1(108.0)	104.9	73.40	83.81	94.01	99.10	101.07	98.22	91.41	83.01	70.88	49.93	19.92
2121.7	110.2(107.9)	104.7	71.85	81.38	90.99	98.11	101.27	98.19	91.82	84.46	72.61	52.93	21.74
1958.1	109.3(106.7)	103.5	70.34	79.58	88.49	96.06	100.06	97.69	91.68	84.63	73.46	55.07	26.04
1831.2	107.0(104.2)	100.9	69.26	77.62	85.90	92.83	97.03	95.55	90.51	83.74	73.10	55.71	28.37
1722.1	105.3(102.1)	98.7	68.25	76.70	83.70	90.06	94.25	93.47	89.53	82.97	72.75	56.15	30.11
1658.1	103.9(100.6)	97.1	68.08	75.48	82.61	88.44	92.29	92.05	88.64	82.24	72.34	56.32	31.33
1606.3	102.9(99.5)	96.0	68.20	75.20	81.91	87.71	91.06	91.02	87.92	81.58	71.88	56.15	31.92
1557.9	101.6(98.0)	94.6	68.04	74.58	81.17	86.10	89.28	89.16	86.98	80.79	71.31	56.10	32.46
1523.1	100.9(97.2)	93.8	68.21	74.40	80.74	85.46	88.27	88.47	86.03	79.90	70.55	55.58	32.33
1506.7	100.1(96.5)	93.0	67.66	73.84	80.48	84.96	87.59	87.69	85.18	79.08	69.80	54.96	31.95
1500.4	99.4(95.8)	92.4	67.00	73.14	79.96	83.98	87.20	87.02	84.69	78.41	69.15	54.36	31.42
1505.7	98.7(95.1)	91.7	66.97	72.73	79.90	83.78	86.54	86.31	83.66	77.56	68.29	53.45	30.44
1523.4	97.9(94.1)	90.8	67.08	72.40	79.62	83.31	85.77	85.85	83.02	76.69	67.33	52.36	29.11
1552.9	96.9(93.3)	89.9	65.11	71.18	77.47	81.43	84.65	84.49	81.99	75.79	66.32	51.11	27.67
1596.7	95.9(92.3)	88.9	63.46	70.47	75.89	80.42	83.66	83.61	81.19	74.90	65.25	49.70	25.68
1655.1	95.1(91.6)	88.3	64.56	70.15	75.28	79.96	83.13	82.87	80.26	73.86	63.95	47.94	22.94

RUN NUMBER	= 304.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 9.800
PRIMARY TEMPERATURE (R)	= 1315.000
SECONDARY TEMPERATURE (R)	= 562.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .486
PRIMARY VELOCITY (FT/SEC)	= 2184.529
MASS FLOW RATIO	= .985
PRIMARY MASS FLOW (LB/SEC)	= .273
THRUST (LBS)	= 27.239
ENVIRONMENTAL TEMPERATURE (R)	= 552.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.740
ENVIRONMENTAL HUMIDITY (PER CENT)	= 25.000
CALIBRATION FACTOR (MV TO DYNES/SQ CM)	= .199
INSTRUMENTATION NOISE FLOOR (DB)	= 75.578

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.86965E+01	145.9
500	8.04432E-02	119.1
1000	6.34236E-01	128.0
2000	3.38879E+00	135.3
4000	8.72838E+00	139.4
8000	1.36445E+01	141.3
16000	8.71136E+00	139.4
31500	3.59782E+00	135.5

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	171.5
20000	174.5
40000	177.5
80000	180.6

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	99.7	107.7	112.3	112.6	110.5	104.7	98.7	117.5
20.0	98.6	107.8	113.4	114.3	112.8	107.2	100.9	119.1
25.0	97.8	107.0	113.7	115.4	114.9	110.0	103.7	120.3
30.0	96.3	105.7	113.6	116.0	115.5	110.7	103.4	120.7
35.0	94.2	104.1	112.6	117.4	115.0	110.8	101.4	120.4
40.0	92.0	101.5	110.7	116.8	116.7	110.5	101.9	122.9
45.0	89.2	98.9	108.4	115.2	115.6	110.2	101.7	122.2
50.0	87.6	96.2	105.2	112.1	116.2	114.5	110.3	120.0
55.0	85.1	94.1	102.1	108.5	112.0	112.2	108.7	117.1
60.0	84.1	91.6	99.5	105.1	109.3	109.8	107.2	114.4
65.0	84.1	91.4	97.8	103.0	107.3	107.5	106.1	112.5
70.0	83.5	90.3	96.8	101.8	105.2	105.8	104.8	110.9
75.0	82.4	89.7	95.8	100.2	103.7	104.4	103.3	109.4
80.0	82.9	89.1	94.9	99.5	102.3	103.3	102.2	108.4
85.0	80.8	87.3	93.3	97.4	100.7	102.5	101.1	107.0
90.0	80.8	86.5	92.6	96.6	100.3	101.4	100.2	106.3
95.0	80.0	85.6	91.9	96.0	100.3	101.0	99.5	105.8
100.0	79.1	85.6	91.0	94.8	99.3	100.1	98.8	104.9
105.0	79.1	84.0	90.4	94.4	98.6	99.1	98.1	104.3
110.0	78.1	84.0	89.5	93.9	98.0	98.8	97.6	103.7
115.0	79.1	83.4	88.7	93.9	97.9	98.4	97.0	103.2

MODEL THRUST = 27.239 FULL SCALE THRUST = 20000.000

LV	PNDW	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 18.9	36.9	73.8	147.6	295.2	590.5	1182.5	2325.0	4613.1	9228.1	18452.2
5705.6	91.7(| 91.3)	90.9	73.68	81.66	86.08	86.10	83.09	74.94	63.13	47.88	17.92	-33.82	-118.22
4385.7	96.4(| 96.2)	96.9	76.94	86.20	89.65	90.36	88.13	80.79	70.10	57.22	34.63	-9.98	-76.06
3549.3	100.9(| 100.6)	97.9	78.08	85.18	91.87	93.35	92.31	85.93	76.09	65.18	46.08	13.23	-39.62
2888.6	103.1(| 102.8)	99.8	75.93	85.91	93.16	95.69	94.50	88.45	78.19	68.48	51.86	23.63	-21.50
2515.2	104.3(| 104.1)	104.4	75.02	84.99	93.39	96.12	99.25	96.00	88.02	79.13	64.33	39.33	-.40
2355.6	104.9(| 104.7)	104.9	73.40	83.93	92.96	96.46	100.06	98.93	90.93	81.87	68.14	45.91	9.74
2121.3	105.9(| 105.6)	104.1	71.93	81.55	91.03	97.75	100.62	97.50	90.88	83.10	70.92	49.48	14.89
1956.1	106.5(| 106.2)	102.6	70.98	80.98	89.58	96.58	99.88	98.03	89.83	83.05	71.19	51.72	21.22
1831.2	106.9(| 106.7)	100.3	69.07	78.08	86.01	92.29	96.30	96.94	89.71	82.59	71.32	52.92	24.20
1732.1	107.3(| 107.1)	99.0	68.93	76.06	83.98	89.68	93.58	95.19	88.78	81.89	71.07	53.50	24.17
1655.1	107.5(| 107.3)	98.5	68.92	76.21	82.96	87.73	91.76	91.38	88.22	81.49	71.02	54.10	27.84
1590.3	107.7(| 107.5)	98.2	68.97	75.87	81.80	86.08	89.82	89.42	87.30	80.71	70.40	53.70	28.68
1552.9	107.8(| 107.6)	96.8	68.32	75.13	81.14	85.66	88.77	88.76	86.14	79.65	69.64	53.58	28.77
1523.1	107.9(| 107.7)	95.2	68.44	74.64	80.47	84.98	87.92	87.98	85.30	78.87	69.00	53.19	28.79
1505.7	108.0(| 107.8)	91.9	66.49	73.00	78.96	82.94	86.01	87.15	84.35	77.96	68.16	52.49	28.35
1500.8	108.0(| 107.8)	91.2	66.52	72.71	78.29	82.19	85.03	86.32	83.69	77.37	67.70	51.69	27.62
1505.7	107.9(| 107.8)	90.7	66.49	71.24	77.40	81.41	85.59	85.84	82.64	76.27	66.68	50.41	26.67
1523.1	107.9(| 107.7)	90.7	66.02	71.19	76.87	80.79	84.68	85.73	81.89	75.48	65.69	49.78	25.39
1552.9	107.8(| 107.6)	89.9	66.44	69.41	75.90	79.72	83.69	83.74	80.98	74.48	64.47	48.41	23.80
1596.9	107.6(| 107.4)	88.8	63.22	69.17	74.98	78.91	82.78	82.97	80.11	73.52	63.31	46.88	21.47
1655.1	107.3(| 107.1)	87.1	63.92	67.24	73.44	78.19	81.88	82.19	79.16	72.37	61.98	44.98	18.74

RUN NUMBER	= 311.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.500
PRIMARY TEMPERATURE (R)	= 527.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 1.919
AREA RATIO	= 1.000
VELOCITY RATIO	= .366
PRIMARY VELOCITY (FT/SEC)	= 660.253
MASS FLOW RATIO	= .212
PRIMARY PASS FLOW (LB/SEC)	= .218
THRUST (LBS)	= 8.500
ENVIRONMENTAL TEMPERATURE (R)	= 514.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.760
ENVIRONMENTAL HUMIDITY (PER CENT)	= 76.000
CALIBRATION FACTOR (MV TO DYNES/CM)	= .006
INSTRUMENTATION NOISE FLOOR (DB)	= 44.543

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	8.87359E-02	119.5
500	1.20467E-03	100.8
1000	5.17096E-03	107.1
2000	2.73187E-02	114.4
4000	3.09971E-02	114.9
8000	1.60029E-02	112.0
16000	5.70938E-03	107.6
31500	2.35221E-03	103.7

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	150.2
20000	153.2
40000	156.2
80000	159.2

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
10.0	78.7	84.8	87.8	86.6	81.2	73.0	69.3	92.0
20.0	77.4	83.7	87.7	87.3	82.3	75.4	71.2	92.1
25.0	77.4	83.1	87.7	87.9	83.3	76.7	72.3	92.6
30.0	76.2	81.6	87.7	87.9	84.0	78.1	74.0	92.6
35.0	74.9	80.4	87.0	88.1	84.5	78.9	74.6	92.3
40.0	74.3	79.8	86.7	87.6	84.4	79.1	74.8	91.9
45.0	73.1	78.4	85.9	86.9	84.2	79.1	75.1	91.3
50.0	72.1	77.8	85.9	86.6	84.1	79.4	75.1	91.1
55.0	70.9	77.2	85.7	86.5	83.8	79.5	75.3	90.9
60.0	70.5	76.7	85.6	86.3	83.8	79.6	75.5	90.8
65.0	69.7	76.4	85.2	86.2	83.7	79.5	75.1	90.6
70.0	69.1	76.2	84.6	85.6	82.9	79.2	75.3	90.1
75.0	68.2	76.0	83.9	85.2	82.3	78.9	75.2	89.5
80.0	68.0	76.0	83.4	84.6	82.1	78.1	74.7	89.1
85.0	67.1	76.1	83.0	83.8	81.8	77.6	74.4	88.8
90.0	66.7	76.1	83.4	82.8	81.3	76.9	73.9	88.1
95.0	66.1	76.0	83.5	82.6	81.1	76.8	73.1	88.0
100.0	65.1	73.7	82.9	82.9	80.2	76.0	72.7	87.6
105.0	65.4	72.6	82.5	82.9	79.9	75.8	72.4	87.6
110.0	63.9	71.0	80.8	81.6	79.0	76.1	71.7	86.2
115.0	63.6	69.9	78.6	80.9	77.4	75.2	71.4	84.7

MODEL THRUST = 8.500 FULL SCALE THRUST = 20000.000

LV	PNOD	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 10.3	20.6	41.2	82.5	164.9	329.8	659.4	1318.8	2636.9	5153.9	10307.8
5705.4	64.9	63.5	70.8	57.69	63.05	66.87	65.90	59.67	51.34	44.04	34.38	16.90	-15.39	-71.67
4385.7	68.9	67.4	73.4	58.80	65.99	69.07	69.46	63.07	55.01	48.59	41.36	27.39	2.22	-41.09
3849.3	72.3	70.4	75.6	60.78	68.32	70.93	71.98	66.30	59.83	52.90	45.92	33.96	13.02	-22.61
3089.0	74.9	72.9	77.9	62.97	69.36	72.86	72.97	68.46	61.99	54.69	48.04	39.56	21.38	-9.28
2615.2	76.8	74.6	78.1	66.82	69.32	72.88	74.98	70.23	64.07	58.36	52.36	42.82	28.61	-.43
2333.4	78.1	75.7	79.7	67.10	69.91	73.55	76.02	71.09	65.98	59.06	54.09	45.45	30.86	8.19
2121.3	78.9	76.3	79.0	68.84	68.13	73.47	76.61	71.72	66.55	61.30	55.86	47.56	33.86	11.34
1988.1	79.7	77.0	79.5	68.91	68.20	74.30	76.99	72.35	67.29	62.11	56.98	49.07	35.07	15.07
1831.2	80.4	77.4	79.9	69.62	68.23	74.67	75.45	72.69	68.02	62.93	57.82	50.25	38.60	18.16
1732.1	81.0	77.9	80.3	69.85	68.78	75.12	75.72	73.10	68.34	63.70	59.70	51.38	39.62	20.70
1659.1	81.2	78.2	80.4	69.61	68.21	75.13	76.12	73.41	68.76	63.80	58.89	51.76	40.39	22.18
1598.3	81.2	78.0	80.2	69.39	68.04	74.96	75.91	73.45	68.93	64.07	59.93	52.56	41.88	23.40
1552.9	81.1	77.7	79.9	68.69	66.88	74.20	75.40	72.78	68.66	64.40	59.71	52.83	41.98	24.71
1523.1	80.9	77.5	79.6	68.57	66.55	73.98	75.10	72.88	68.32	64.19	59.62	52.62	41.92	24.92
1505.7	80.6	77.0	79.3	67.85	66.79	74.35	74.89	72.13	67.91	64.04	59.33	52.56	41.95	25.11
1500.0	80.9	76.8	79.4	67.65	65.99	74.10	73.91	71.98	67.27	63.53	58.81	52.06	41.68	24.40
1505.7	79.8	76.2	79.7	66.83	65.67	74.26	73.11	71.71	66.89	62.72	57.98	51.23	40.62	23.17
1523.1	78.4	75.4	79.3	66.91	66.07	73.98	73.06	71.06	66.28	61.98	57.04	50.04	39.49	22.09
1552.9	78.2	74.9	77.8	65.60	63.08	72.94	73.26	70.25	65.40	61.56	56.77	49.90	39.05	21.77
1598.3	77.3	74.0	76.3	64.14	61.19	71.61	71.78	69.03	64.98	60.77	55.96	48.45	37.88	20.21
1659.1	75.9	72.5	74.6	63.35	60.42	68.65	70.37	67.16	64.44	60.09	55.19	48.06	36.89	19.44

RUN NUMBER	= 312.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= +0.500
PRIMARY TEMPERATURE (R)	= 1260.000
SECONDARY TEMPERATURE (R)	= 523.000
PRIMARY PRESSURE RATIO	= 1.29
AREA RATIO	= 1.000
VELOCITY RATIO	= .94
PRIMARY VELOCITY (FT/SEC)	= 664
MASS FLOW RATIO	= 1.001
PRIMARY MASS FLOW (LB/SEC)	= .158
THRUST (LBS)	= 12.500
ENVIRONMENTAL TEMPERATURE (R)	= 515.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.760
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DYNES/SQ CM)	= .0006
INSTRUMENTATION NOISE FLOOR (DB)	= 45.500

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.73515E-02	118.9
500	1.46769E-03	101.7
1000	6.31780E-03	108.0
2000	1.76339E-02	112.5
4000	2.11938E-02	113.3
8000	1.76228E-02	112.5
16000	9.04096E-03	109.6
31500	4.07453E-03	106.1

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	147.9
20000	150.9
40000	153.9
80000	156.9

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	79.9	85.0	88.0	85.1	80.0	74.9	72.2	92.0
20.0	79.8	85.6	88.2	86.4	82.6	76.7	72.2	92.6
25.0	78.3	84.7	88.3	87.5	83.0	78.1	73.9	92.7
30.0	77.1	83.2	87.0	87.2	84.6	79.2	75.0	92.3
35.0	75.9	82.0	86.2	87.1	85.0	80.5	76.3	92.1
40.0	74.1	80.8	85.9	87.0	85.8	82.0	77.7	92.1
45.0	73.3	79.8	85.2	86.8	85.8	82.6	78.3	91.7
50.0	71.7	79.0	84.1	85.5	84.9	81.9	78.1	90.9
55.0	71.6	78.1	83.6	83.1	84.7	82.0	78.5	90.3
60.0	70.7	76.9	82.4	84.0	83.9	81.2	77.5	89.6
65.0	70.2	76.0	82.4	83.9	83.9	81.4	77.4	89.6
70.0	70.0	76.2	81.5	83.0	83.0	80.7	77.5	88.8
75.0	69.3	75.5	80.9	82.1	82.2	80.1	76.9	88.0
80.0	68.4	75.0	80.0	81.6	81.8	79.7	76.7	87.6
85.0	68.2	75.0	79.6	81.3	81.3	79.3	76.8	87.2
90.0	67.6	74.8	79.6	80.5	81.0	78.7	75.8	86.7
95.0	67.6	73.8	78.9	80.1	80.7	78.2	75.2	86.2
100.0	67.0	73.8	78.5	79.9	80.4	78.0	75.2	86.0
105.0	66.2	73.0	78.2	79.7	79.9	77.9	75.1	85.8
110.0	65.5	72.1	77.4	79.0	79.9	77.8	74.7	85.5
115.0	64.8	70.8	76.1	78.0	79.2	77.5	74.6	84.8

MODEL THRUST = 12.500 FULL SCALE THRUST = 20000.000

LV	PNOV	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 12.5	25.0	50.0	100.0	200.0	400.0	787.5	1575.0	3150.0	6250.0	12500.0
5705.6	63.7(62.8)	69.2	57.26	63.24	65.23	62.24	57.43	50.68	41.92	38.54	9.79	-28.15	-62.96
4589.7	68.7(67.6)	72.1	59.29	65.48	67.48	66.00	61.86	54.98	47.73	34.38	21.06	-47.49	-57.28
3549.3	72.3(70.7)	74.3	59.88	66.33	69.82	69.68	66.93	58.65	51.66	43.50	29.63	5.23	-35.62
3008.8	74.8(72.9)	75.2	60.78	66.27	70.00	70.19	67.26	61.19	55.19	47.81	35.82	14.43	-20.46
2614.2	76.4(74.8)	76.2	60.13	66.26	70.72	71.24	68.92	63.78	58.81	51.22	40.71	21.45	-9.44
2353.4	77.6(76.1)	77.0	59.91	66.44	71.11	72.11	70.18	65.96	60.78	54.37	44.17	27.19	-1.78
2121.3	78.1(77.4)	77.6	59.34	65.93	71.25	72.14	71.38	67.76	62.44	56.41	46.91	31.12	5.50
1958.1	78.5(77.5)	77.9	58.68	65.76	70.88	72.19	71.68	67.98	62.99	57.19	48.16	33.36	9.48
1831.7	81.8(78.8)	77.8	58.92	64.48	70.98	72.68	71.84	68.78	64.03	58.38	49.78	35.74	13.21
1732.1	80.7(77.5)	77.3	58.87	64.78	70.29	71.78	71.67	68.34	63.69	58.18	49.88	36.43	14.96
1645.1	81.3(78.1)	77.7	58.38	64.81	70.63	72.02	71.92	68.81	64.08	58.83	50.93	37.96	17.31
1574.3	81.1(77.7)	77.2	58.53	64.95	69.98	71.91	71.32	68.56	63.87	57.78	51.27	38.66	19.62
1522.0	80.7(77.2)	76.6	58.84	64.87	69.38	70.41	70.76	68.32	64.06	58.19	51.84	39.68	20.12
1523.1	80.4(77.0)	76.4	57.31	63.99	68.92	70.53	70.97	68.11	64.17	58.97	51.58	39.12	19.48
1504.7	80.4(76.7)	76.1	57.28	64.46	68.61	70.27	70.19	67.80	64.15	58.97	51.36	39.28	20.23
1508.8	79.7(76.2)	75.7	56.64	63.43	68.08	69.82	69.88	67.28	63.68	58.23	50.66	38.68	19.68
1494.7	79.2(75.7)	75.2	56.45	62.97	67.88	69.13	69.68	66.73	63.98	57.72	50.11	38.84	19.98
1493.1	79.4(75.3)	74.8	54.46	61.96	67.58	68.56	68.98	66.26	63.97	57.98	49.78	37.98	19.23
1492.9	78.4(74.9)	74.4	55.02	61.76	67.02	68.64	68.98	66.11	63.35	57.18	49.45	36.49	17.62
1494.3	77.9(74.6)	73.9	53.79	60.81	66.48	68.19	68.25	65.76	61.69	56.36	48.68	35.83	16.81
1495.1	77.1(73.8)	73.4	53.64	60.53	66.38	66.93	67.32	65.17	61.98	55.80	47.93	34.76	16.11

RUN NUMBER	= 514.000
AXIAL POSITION OF PRIMARY NNT. SECONDARY (INS.)	= -4.500
PRIMARY TEMPERATURE (R)	= 528.000
SECONDARY TEMPERATURE (R)	= 528.000
PRIMARY PRESSURE RATIO	= 1.519
AREA RATIO	= 2.007
VELOCITY RATIO	= .387
PRIMARY VELOCITY (FT/SEC)	= 865.449
MASS FLOW RATIO	= .987
PRIMARY MASS FLOW (LB/SEC)	= .220
THRUST (LBS)	= 7.500
ENVIRONMENTAL TEMPERATURE (R)	= 517.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.760
ENVIRONMENTAL HUMIDITY (PER CENT)	= 68.500
CALIBRATION FACTOR (MV TO DY/CM**2)	= .009
INSTRUMENTATION NOISE FLOOR (DB)	= 48.567

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	1.20576E-01	120.8	THRUST	POWER LEVEL(DB)
500	1.43854E-03	101.6	10000	152.1
1000	6.82273E-03	108.3	20000	155.1
2000	3.65366E-02	115.9	40000	158.1
4000	6.03478E-02	117.8	80000	161.1
8000	2.22488E-02	113.5		
16000	8.11955E-03	109.1		
31500	3.86152E-03	104.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	1000	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	31500	OVER ALL
15.0	78.8	80.0	87.4	86.0	80.8	74.5	71.0		91.6
20.0	77.4	83.6	87.8	86.9	82.1	76.7	73.6		92.1
25.0	77.7	83.2	88.2	88.9	83.0	78.4	75.0		92.8
30.0	76.6	82.7	88.0	88.9	85.6	80.5	77.0		93.6
35.0	75.9	81.4	88.1	89.1	86.2	81.9	77.7		93.7
40.0	74.3	80.6	88.3	88.7	85.4	82.4	78.3		93.5
45.0	73.7	79.0	87.4	88.1	83.9	81.8	77.9		92.8
50.0	72.8	79.1	87.3	87.9	85.8	81.1	76.5		92.5
55.0	71.7	78.0	87.6	88.0	85.7	81.1	76.8		92.6
60.0	72.1	78.5	87.3	87.6	85.4	80.8	76.3		92.3
65.0	71.2	78.5	87.2	87.9	85.1	80.8	76.3		92.2
70.0	70.5	77.8	86.2	87.2	84.5	80.4	75.7		91.6
75.0	70.6	77.5	85.7	86.7	84.1	79.7	75.6		91.1
80.0	70.8	78.8	85.3	86.0	83.8	79.6	75.3		90.7
85.0	68.0	77.6	85.0	84.9	82.9	78.9	74.4		89.8
90.0	68.7	77.4	85.1	84.8	82.7	77.8	73.9		89.6
95.0	69.0	76.8	85.0	84.8	82.8	77.8	73.8		89.5
100.0	67.5	76.9	85.0	84.3	81.3	77.1	73.2		89.2
105.0	68.6	76.9	84.1	84.9	81.3	76.2	72.8		89.1
110.0	66.6	72.8	82.3	83.1	80.6	77.8	72.1		87.6
115.0	65.9	72.8	80.6	81.6	79.8	76.6	71.8		85.8

MODEL THRUST = 7.500 FULL SCALE THRUST = 20000.000

LO	PWDO	OASPL		OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
			9.7	19.4	38.7	77.5	154.9	309.8	618.0	1228.0	2428.6	4841.2	9692.5
8795.4	84.81	83.11	70.7	58.03	63.49	66.92	64.63	59.33	52.68	47.45	38.27	21.74	-8.47	-52.56
9389.7	84.01	82.10	73.9	59.37	65.42	69.79	66.87	62.77	57.59	52.62	44.09	31.71	7.82	-33.56
3549.3	73.41	71.61	70.5	61.51	67.04	71.06	71.78	67.31	61.34	54.41	44.62	38.34	18.63	-15.61
3888.4	77.51	75.81	78.8	61.86	67.98	74.18	74.16	70.88	65.88	59.20	50.08	44.88	28.78	-2.53
2615.9	74.61	72.81	88.1	61.88	67.91	75.13	75.81	72.45	67.78	62.16	56.57	47.67	32.81	6.14
2339.6	80.61	78.81	83.8	61.94	68.09	75.67	76.12	73.49	69.33	63.98	58.64	50.88	37.58	10.82
1958.1	81.61	78.81	81.6	61.88	68.06	76.29	76.85	74.29	69.59	64.13	59.05	51.48	39.19	14.82
1831.2	82.61	79.81	82.1	61.84	68.39	77.13	77.62	75.89	70.96	65.89	60.14	52.44	41.14	22.13
1732.1	82.61	79.91	82.3	62.12	68.96	77.56	77.62	75.87	70.97	66.10	60.31	53.97	42.01	23.67
1695.1	83.21	80.11	82.6	61.88	68.96	77.97	77.93	76.48	70.63	66.06	60.86	53.98	43.89	25.62
1594.2	83.41	80.41	84.2	61.75	69.06	78.09	78.09	76.19	70.73	66.10	60.86	53.91	43.28	25.15
1552.6	82.81	79.61	82.1	61.69	68.87	78.78	77.98	76.46	70.35	66.16	60.51	53.88	43.69	24.48
1523.1	82.61	79.31	81.8	61.18	68.91	78.65	77.16	76.58	70.58	66.47	60.86	54.20	44.03	27.71
1485.7	81.91	78.51	81.1	60.18	68.43	78.38	76.95	75.81	69.38	66.48	60.28	53.75	43.59	27.62
1588.0	81.91	78.91	80.9	59.99	68.78	78.41	77.48	75.86	68.91	66.18	59.58	53.86	42.42	24.98
1589.7	81.21	78.01	80.7	59.86	68.69	78.42	76.21	75.66	68.67	65.72	59.12	52.78	42.63	24.74
1529.1	81.41	77.11	80.3	58.86	67.96	77.96	76.84	74.98	67.97	64.98	58.41	52.19	41.89	24.97
1552.6	74.71	74.61	74.8	57.41	65.42	73.85	74.07	72.16	66.86	64.55	57.98	51.27	40.41	24.20
1544.1	78.41	75.61	76.3	57.18	65.48	73.89	73.97	71.61	67.61	61.81	57.11	50.19	39.78	22.98
1555.1	74.41	73.31	74.2	56.18	64.84	74.59	72.93	69.19	66.39	60.78	56.83	49.18	38.28	24.80

RUN NUMBER	
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS)	= 316.000
PRIMARY TEMPERATURE (RT	= -R.500
SECONDARY TEMPERATURE (R)	= 526.700
PRIMARY PRESSURE RATIO	= 530.000
AREA RATIO	= 1.286
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= .942
MASS FLOW RATIO	= 663.000
PRIMARY MASS FLOW (LH/SEC)	= 2.150
THRUST (LHS)	= .193
ENVIRONMENTAL TEMPERATURE (R)	= 14.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 517.500
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.760
CALIBRATION FACTOR (MV TO DYNES CM)	= 68.500
INSTRUMENTATION NOISE FLOOR (DB)	= .013
	= 51.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.58420E-01	121.9	THRUST	POWER LEVEL(DB)
500	2.58916E-03	104.1	10000	150.5
1000	1.22999E-02	110.9	20000	153.5
2000	3.40181E-02	115.3	40000	156.5
4000	3.99722E-02	116.0	80000	159.5
8000	3.77199E-02	115.8		
16000	2.00179E-02	113.1		
31500	9.25875E-03	109.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVERALL
10.0	84.6	91.1	95.4	90.2	86.0	80.1	80.0	97.3
20.0	82.2	89.8	92.3	90.3	86.8	82.2	79.2	96.6
25.0	81.3	87.9	91.8	90.0	85.1	84.1	80.9	96.6
30.0	78.3	86.6	89.8	90.4	88.8	86.8	80.8	95.7
35.0	77.1	84.9	88.8	89.3	88.9	85.8	81.8	94.9
40.0	75.8	82.7	87.8	86.9	88.7	86.1	82.8	94.7
45.0	73.8	81.4	87.8	86.3	88.0	84.1	82.7	94.8
50.0	73.5	80.5	85.9	87.8	88.6	83.9	82.2	93.6
60.0	72.4	79.2	85.1	86.8	87.8	84.9	81.4	93.8
65.0	72.9	78.8	85.8	86.7	87.8	84.8	82.9	93.8
70.0	72.7	78.9	84.2	85.9	86.6	83.9	80.7	91.8
75.0	73.3	78.1	83.9	84.8	87.0	83.8	79.9	91.2
80.0	72.1	77.9	83.1	84.9	85.5	83.1	79.6	90.9
85.0	71.9	77.0	82.8	84.9	84.9	82.9	78.9	90.8
90.0	71.3	77.3	82.5	84.1	84.8	82.8	78.3	90.1
95.0	70.9	77.1	82.8	83.9	83.9	81.8	77.9	89.8
100.0	69.6	76.3	81.2	82.7	83.3	81.8	77.8	88.9
105.0	69.2	75.5	80.9	82.8	82.9	80.9	77.2	88.8
110.0	68.3	73.7	78.4	81.9	82.7	80.4	76.9	87.9
115.0	68.8	73.8	77.8	80.8	81.9	79.6	76.8	86.8

MODEL THRUST = 14.000 FULL SCALE THRUST = 20000.000

LV	PHDU	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 15.8	31.5	63.0	125.0	251.7	423.3	833.4	1666.8	3336.2	6614.4	13228.8
8796.4	78.61	69.61	74.1	61.32	67.98	70.34	66.85	62.86	57.69	51.11	39.15	17.34	-22.41	-69.87
4389.9	83.41	78.41	75.0	61.62	66.45	71.90	69.62	65.90	59.79	53.88	40.80	20.80	-2.99	-55.73
3549.3	77.11	75.31	77.3	62.36	69.84	72.64	71.59	66.71	63.81	58.32	49.84	35.31	9.41	-32.67
2819.8	80.61	78.31	78.4	66.98	67.79	72.19	73.46	71.97	68.38	62.82	55.78	44.29	24.78	-7.38
2282.4	82.91	80.41	79.1	69.26	69.66	73.34	73.19	69.99	67.98	64.08	58.06	49.91	28.15	1.78
2181.3	83.01	80.21	78.8	69.63	66.94	72.91	73.95	73.77	70.78	64.81	59.73	49.84	33.39	6.48
1958.1	83.41	80.51	79.2	69.78	68.88	72.19	73.95	74.81	71.38	66.39	60.38	51.89	34.87	10.41
1831.2	83.41	80.61	79.6	69.38	68.44	72.67	74.48	74.88	71.87	66.35	60.52	51.58	36.07	13.48
1732.1	83.81	80.71	80.1	69.76	68.91	72.89	73.98	74.19	71.98	66.98	61.98	52.66	36.48	14.39
1659.1	84.11	80.91	80.6	68.26	68.91	72.72	74.36	74.55	71.52	66.83	61.37	53.68	39.91	18.18
1594.3	83.41	80.71	79.7	69.78	68.72	72.19	73.76	74.64	71.24	67.01	62.61	53.41	40.27	19.53
1532.8	83.41	80.41	79.6	69.55	68.73	71.88	73.53	73.83	71.26	66.56	61.16	53.10	40.25	19.48
1573.1	83.41	80.11	79.2	69.58	68.12	71.44	73.29	73.78	70.98	66.26	60.48	52.96	40.38	20.14
1584.7	82.41	79.61	78.8	68.27	66.29	71.39	72.88	73.21	70.63	65.87	60.48	52.66	40.18	20.34
1588.8	82.41	79.61	78.6	66.98	65.92	71.49	72.44	73.16	69.98	64.97	60.05	52.18	39.67	19.98
1584.7	81.41	78.61	77.7	66.98	65.65	70.68	71.44	72.28	69.16	64.87	59.56	51.66	39.11	19.34
1429.1	81.91	79.01	77.1	66.89	64.78	69.69	71.11	71.21	68.37	64.02	59.28	51.16	38.69	19.16
1592.0	80.41	77.11	76.5	67.49	63.64	69.84	70.44	70.95	68.48	63.82	58.98	51.16	38.69	19.16
1598.3	79.41	76.61	75.7	66.31	61.76	67.67	69.48	70.58	67.86	63.28	58.42	50.38	37.93	17.26
1684.1	78.91	75.11	74.1	66.28	60.58	66.56	68.13	69.58	66.51	62.68	58.06	48.58	35.87	13.46

RUN NUMBER	= 320.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.500
PRIMARY TEMPERATURE (R)	= 928.000
SECONDARY TEMPERATURE (R)	= 528.000
PRIMARY PRESSURE RATIO	= 1.286
AREA RATIO	= 4.454
VELOCITY RATIO	= .919
PRIMARY VELOCITY (FT/SEC)	= 664.200
MASS FLOW RATIO	= .344
PRIMARY MASS FLOW (LB/SEC)	= .194
THRUST (LBS)	= 21.500
ENVIRONMENTAL TEMPERATURE (R)	= 518.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.610
ENVIRONMENTAL HUMIDITY (PER CENT)	= 66.000
CALIBRATION FACTOR (MV TO DYN/SQ CM)	= .009
INSTRUMENTATION NOISE FLOOR (DB)	= 48.567

ACOUSTIC POWER AND SOUND POWER LEVEL FOR HOT JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.34529E-01	121.3
500	5.80335E-03	107.6
1000	2.09828E-02	113.0
2000	3.58852E-02	115.5
4000	3.00455E-02	115.4
8000	2.32621E-02	113.7
16000	1.07109E-02	110.3
31500	4.37179E-03	106.4

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	148.0
20000	151.0
40000	154.0
80000	157.0

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	1000	2000	4000	8000	16000	31500	OVER ALL
16.0	84.1	88.7	91.1	85.4	78.7	73.0	69.7	93.0
20.0	85.8	91.8	90.8	86.9	81.3	75.1	71.1	95.4
25.0	86.6	90.2	91.0	87.9	82.6	78.6	72.9	95.3
30.0	83.4	88.7	90.5	89.4	85.0	79.6	75.1	95.4
35.0	81.6	87.6	90.8	89.8	86.8	80.8	76.6	95.1
40.0	79.8	85.6	89.0	88.7	86.3	81.7	77.6	94.2
45.0	77.9	84.0	87.9	88.2	86.0	81.9	77.8	93.9
50.0	77.8	83.1	87.3	87.7	86.3	82.5	77.8	93.1
55.0	77.1	82.4	86.3	86.9	85.2	82.1	77.9	92.4
60.0	76.8	81.8	85.8	86.6	85.4	82.3	77.9	92.0
65.0	76.6	81.3	85.3	86.0	84.9	82.0	78.2	91.6
70.0	76.8	81.4	85.0	85.7	84.6	81.6	77.6	91.3
75.0	77.1	81.8	84.7	85.1	84.2	81.1	78.0	90.8
80.0	75.3	80.6	84.1	84.8	83.8	80.9	76.9	90.5
85.0	74.9	80.2	83.5	84.1	83.6	80.8	77.1	89.9
90.0	74.8	79.7	83.4	83.6	82.8	80.6	76.6	89.6
95.0	73.7	78.9	83.0	83.0	82.4	80.2	77.0	89.0
100.0	73.8	78.4	82.9	83.2	82.6	79.9	76.8	89.1
105.0	73.9	77.9	82.9	82.7	82.4	79.5	76.5	88.9
110.0	72.9	77.1	81.2	82.5	81.7	79.5	76.2	88.2
115.0	73.0	78.0	80.6	81.9	80.9	79.0	75.9	87.5

MODEL THRUST = 21.500 FULL SCALE THRUST = 20000.000

LV	OASPL		OCTAVE BAND SOUND PRESSURE LEVELS								
			16.4	32.8	65.6	131.1	262.3	524.6	1032.8	2049.6	4098.4	8196.8	16393.6
3795.6	61.3	68.7	68.8	61.87	65.60	49.82	88.85	53.63	45.77	38.82	22.18	-6.15	-51.36	-139.69
4385.7	67.9	66.5	72.7	63.88	68.34	68.18	66.82	59.92	48.89	42.39	28.72	28.07	-26.35	-96.22
3540.3	70.8	69.7	76.4	63.68	69.38	70.14	68.98	60.98	53.72	47.16	37.17	19.89	-10.18	-99.19
3888.8	74.3	73.0	80.0	66.88	69.82	71.98	69.48	65.14	58.48	51.61	42.69	27.61	-1.72	-48.16
2815.2	76.7	75.2	76.8	63.44	65.18	72.86	73.54	67.63	61.32	54.62	46.45	32.93	9.98	-76.92
2339.6	77.9	76.2	76.8	62.91	64.97	71.95	71.69	68.75	63.38	57.09	49.01	37.82	18.22	-17.83
2121.3	78.6	76.7	76.9	61.61	67.76	71.57	71.19	69.35	66.66	59.32	51.15	39.59	20.61	-10.69
1854.1	79.6	77.8	77.3	61.98	67.95	71.63	71.46	70.24	66.88	60.98	52.63	41.76	23.82	-4.87
1831.7	79.8	77.9	77.1	62.86	67.41	71.27	71.76	70.18	66.89	60.34	53.73	43.76	26.36	-.35
1732.1	80.2	77.8	77.3	61.51	67.25	71.23	71.49	70.58	66.98	60.96	54.56	44.47	28.38	2.91
1644.1	80.4	77.8	77.2	62.69	67.13	71.16	71.76	70.56	66.93	61.91	55.66	44.78	28.16	5.78
1594.9	80.5	77.9	77.8	62.83	67.49	71.12	71.76	71.20	66.76	62.15	57.78	45.78	28.49	6.61
1552.9	80.2	77.6	77.6	61.64	67.18	70.77	71.66	70.38	66.72	61.11	55.66	45.78	28.45	7.82
1523.1	80.1	77.5	78.9	61.92	67.15	70.71	71.19	70.88	66.66	61.32	55.31	46.18	31.58	8.82
1498.9	79.6	76.8	78.8	61.62	66.98	70.19	68.69	69.82	66.76	61.72	55.75	46.64	32.28	9.68
1508.8	79.6	76.8	78.1	60.78	66.69	70.18	70.29	69.85	65.92	61.28	55.26	46.28	31.76	9.31
1484.9	79.6	76.8	77.9	60.35	66.61	69.86	70.18	69.14	66.18	61.56	55.56	46.48	32.02	9.68
1483.1	79.6	76.8	78.0	60.44	66.53	69.98	70.09	69.23	66.27	61.68	55.67	46.60	31.97	9.72
1542.9	78.2	75.3	76.7	58.69	63.93	66.23	67.17	66.86	64.46	60.73	54.66	45.61	30.57	7.63
1598.1	77.6	74.8	76.1	58.16	63.76	67.17	66.97	67.48	64.97	62.19	53.94	44.55	29.38	9.88
1654.1	76.3	73.6	73.8	57.83	61.63	66.66	67.33	66.66	63.58	59.89	52.62	42.96	27.33	8.48

RUN NUMBER	=	193.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	-4.500
PRIMARY TEMPERATURE (R)	=	958.000
SECONDARY TEMPERATURE (R)	=	535.000
PRIMARY PRESSURE RATIO	=	1.919
AREA RATIO	=	0.788
VELOCITY RATIO	=	.388
PRIMARY VELOCITY (FT/SEC)	=	883.448
MASS FLOW RATIO	=	3.033
PRIMARY MASS FLOW (LB/SEC)	=	.217
THRUST (LBS)	=	13.000
ENVIRONMENTAL TEMPERATURE (R)	=	521.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.478
ENVIRONMENTAL HUMIDITY (PER CENT)	=	63.000
CALIBRATION FACTOR (MV TO 0/1/3 CM)	=	.000
INSTRUMENTATION NOISE FLOOR (DB)	=	45.564

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	8.98807E-02	119.5	THRUST	POWER LEVEL(DB)
500	2.47170E-03	103.9	10000	148.4
1000	1.53439E-02	111.9	20000	151.4
2000	4.70468E-02	116.7	40000	154.4
4000	1.71973E-02	112.3	80000	157.4
8000	5.23153E-03	107.2		
16000	1.00034E-03	100.0		
31500	7.34009E-04	98.7		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE BAND SOUND PRESSURE LEVELS						OVER ALL
	500	1000	2000	4000	8000	16000	31500	SPL
10.0	80.5	85.0	87.0	81.0	73.1	66.1	64.4	89.0
20.0	80.2	85.5	88.3	82.8	74.8	67.8	66.9	91.4
25.0	79.7	85.0	88.9	82.2	74.7	67.2	66.3	91.0
30.0	79.3	84.8	88.6	82.6	74.9	71.0	67.0	92.6
35.0	77.9	84.9	89.0	83.2	80.0	73.2	69.9	93.6
40.0	76.7	83.2	88.9	85.1	88.6	73.2	68.3	91.7
45.0	78.7	83.8	89.0	84.9	80.3	74.0	67.2	91.6
50.0	75.1	82.7	88.6	84.6	88.6	73.5	70.6	91.3
55.0	74.0	82.7	88.9	84.2	87.2	72.8	70.9	91.0
60.0	74.1	83.0	87.0	83.7	79.7	75.5	71.0	90.8
65.0	73.3	82.6	87.1	83.6	79.1	73.8	71.0	90.6
70.0	73.3	83.1	87.5	83.6	74.8	74.9	70.6	90.5
75.0	72.9	82.8	86.8	81.9	77.6	74.2	70.2	90.0
80.0	72.1	82.3	86.9	81.8	74.9	73.7	70.6	89.6
85.0	71.0	82.0	86.9	80.0	79.0	72.5	69.8	89.3
90.0	70.7	81.7	86.8	79.8	78.3	71.7	69.8	89.0
95.0	70.0	81.1	86.8	80.7	76.7	70.8	69.9	89.1
100.0	70.3	79.6	86.1	81.6	73.6	69.5	67.2	88.3
105.0	69.1	80.1	86.6	80.9	73.6	69.7	68.9	87.1
110.0	68.7	79.6	83.4	79.1	72.1	69.5	68.3	85.9
115.0	68.0	78.9	81.4	77.2	70.0	67.9	67.0	84.2

MODEL THRUST = 13.000 FULL SCALE THRUST = 20000.000

				OCTAVE									
			12.7	25.5	51.0	102.0	204.0	407.9	815.1	1630.2	3186.9	6373.8	12747.5
8765.4	97.01	96.11	69.8	87.68	82.45	86.66	90.63	80.65	81.85	35.99	24.81	3.38	-39.20	-188.97
4382.7	92.91	91.01	76.9	89.78	85.72	87.96	82.25	91.02	86.91	88.89	38.59	13.48	-16.82	-88.48
3549.3	84.91	83.01	73.2	81.18	80.85	78.25	85.53	87.67	80.38	86.21	39.95	21.68	-2.92	-44.33
2888.8	78.01	80.91	79.2	82.18	87.87	72.65	80.18	81.38	83.68	87.89	48.59	28.82	6.91	-29.85
2614.2	72.81	71.71	70.6	81.48	68.93	73.81	78.14	80.26	84.36	89.77	42.98	31.73	12.88	-19.82
2323.0	72.01	71.01	80.9	82.18	72.93	74.01	77.14	77.26	81.06	86.59	36.77	36.04	18.04	-11.78
2121.3	74.01	72.41	77.6	81.49	69.11	74.64	78.69	80.18	84.83	83.68	48.04	37.31	21.35	-4.84
1938.1	78.01	73.71	77.8	81.69	80.79	76.98	81.11	80.88	81.39	89.26	89.36	48.26	27.83	1.88
1831.2	78.91	74.21	78.1	81.77	69.45	75.19	81.31	87.16	82.27	86.23	58.52	41.89	27.56	4.78
1732.1	78.91	74.01	78.6	81.78	78.69	75.89	81.33	87.16	82.56	88.99	91.18	42.97	29.21	7.88
1654.1	77.11	76.91	74.6	81.33	78.49	79.77	81.43	88.59	82.98	87.63	91.97	43.48	30.86	9.73
1594.1	77.21	76.21	80.8	81.89	77.99	79.89	81.47	89.89	82.87	87.39	92.87	44.26	31.75	10.97
1532.9	76.81	76.01	78.6	81.58	75.13	75.39	81.49	89.83	82.73	87.48	92.18	44.25	31.72	11.41
1483.1	76.91	75.81	78.3	80.91	71.18	73.02	78.58	89.43	81.61	87.87	92.82	44.48	32.91	11.83
1436.7	75.81	75.01	78.2	80.45	71.13	75.72	80.83	86.68	84.45	86.81	91.68	43.88	31.89	12.26
1388.8	76.91	75.91	77.8	80.46	74.87	75.69	80.89	83.89	83.82	89.39	91.17	43.48	31.26	12.39
1343.7	76.71	75.41	77.9	80.42	80.98	75.87	80.89	83.81	83.16	89.31	90.18	42.37	30.13	11.44
1301.1	76.81	75.21	77.9	79.18	80.96	76.76	80.77	83.71	83.07	89.19	89.18	41.26	29.89	9.97
1259.9	77.01	76.11	78.6	87.48	86.73	73.72	80.92	81.76	84.79	83.59	89.26	40.66	27.91	8.11
1218.3	75.51	74.81	78.2	87.65	84.79	71.79	80.82	80.28	84.32	83.09	87.73	39.76	26.96	6.85
1179.1	69.91	68.31	72.2	86.43	80.73	69.83	79.81	80.02	84.48	82.82	86.67	38.69	25.29	4.83

RUN NUMBER	= 126.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INCH)	= -0.500
PRIMARY TEMPERATURE (R)	= 536.000
SECONDARY TEMPERATURE (R)	= 536.000
PRIMARY PRESSURE RATIO	= 1.240
AREA RATIO	= 0.250
VELOCITY RATIO	= .960
PRIMARY VELOCITY (FT/SEC)	= 869.277
MASS FLOW RATIO	= 1.106
PRIMARY MASS FLOW (LB/SEC)	= .193
THRUST (LBS)	= 33.500
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (INCHG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 63.000
CALIBRATION FACTOR (DB TO WATTS)	= .013
INSTRUMENTATION NOISE FLOOR (DB)	= 91.587

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND PRESSURE LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.74E+02E-01	122.4	THRUST	POWER LEVEL(DB)
			16000	147.2
500	1.37E+00E-02	111.4	20000	150.2
1000	3.36E+03E-02	115.3	40000	153.2
2000	5.23E+05E-02	117.2	80000	156.2
4000	6.08E+07E-02	118.0		
8000	2.16E+08E-02	113.3		
16000	9.47E+03E-03	109.8		
31500	4.05E+19E-03	106.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL, VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500		
16.0	90.4	92.4	90.6	86.4	84.3	72.9	70.0		94.0
20.0	89.4	91.5	91.5	89.4	88.3	75.3	72.5		98.3
25.0	88.0	91.0	92.0	87.7	87.7	78.7	73.8		98.5
30.0	88.4	90.8	91.8	89.3	83.8	78.0	74.3		98.8
35.0	89.0	89.3	91.0	89.4	86.6	80.1	76.0		98.0
40.0	86.0	88.6	90.6	89.3	85.6	80.6	77.3		95.4
45.0	86.0	87.9	90.7	89.1	84.3	81.3	78.1		92.1
50.0	81.2	86.7	89.5	89.4	85.8	82.3	79.3		94.5
55.0	81.6	86.0	88.7	88.6	85.0	82.7	79.8		94.0
60.0	80.8	85.3	87.9	87.4	85.3	83.1	80.1		93.6
65.0	80.2	84.8	87.9	87.3	84.7	83.0	80.1		93.6
70.0	79.6	83.8	86.8	87.1	84.7	83.1	80.1		92.6
75.0	79.0	83.4	86.0	86.1	84.1	82.8	79.8		91.9
80.0	78.3	82.6	85.3	85.3	83.5	82.3	79.5		91.1
85.0	78.0	82.3	84.8	84.9	83.4	82.3	79.7		90.9
90.0	77.7	82.1	84.9	84.6	83.0	82.1	79.6		90.8
95.0	78.9	81.8	84.8	84.7	83.3	82.8	79.9		90.9
100.0	78.0	82.1	83.9	83.8	83.1	82.7	79.9		89.9
105.0	78.4	82.4	83.8	83.3	82.6	82.1	79.7		89.7
110.0	78.6	78.0	82.7	82.4	81.2	78.3	74.7		88.6
115.0	75.8	78.8	81.7	82.3	80.5	77.6	73.8		87.9

NOISE THRUST = 33.500 FULL SCALE THRUST = 20000.000

				OCTAVE BAND SOUND PRESSURE LEVELS								OVER ALL
			29.5	45.9	91.0	183.7	327.4	654.8	1249.2	2518.4	5115.9	10231.7	20463.5
8799.4	82.01	82.01	84.5	83.82	85.67	83.42	59.12	49.85	42.22	33.69	19.49	-18.34	-72.33	-142.01
4389.9	88.81	88.81	91.6	88.67	88.88	86.47	81.87	56.49	47.48	39.27	25.77	-.94	-68.16	-131.81
3518.3	76.91	86.91	93.8	85.27	89.11	89.76	84.74	58.23	51.08	40.25	32.31	11.44	-23.88	-85.13
2808.8	78.41	91.01	96.8	85.91	89.25	78.88	87.38	86.99	61.93	47.08	39.92	18.08	-11.43	-59.91
2615.2	79.81	93.71	95.5	85.37	89.97	91.16	88.78	85.28	59.08	51.84	42.39	26.37	-.53	-42.83
2333.4	80.61	95.41	96.1	86.17	89.97	91.91	90.10	89.10	69.89	57.96	45.46	33.34	6.78	-27.21
2121.7	77.61	95.01	96.1	84.68	89.46	92.28	90.87	88.18	81.49	61.54	48.26	32.48	10.29	-20.58
1956.1	78.91	96.01	96.7	83.59	89.21	91.91	90.96	87.19	83.91	67.17	49.24	34.48	13.59	-16.89
1831.9	78.91	97.11	98.8	84.55	89.57	91.72	90.97	88.22	83.35	67.29	49.68	37.47	17.83	-12.67
1732.1	79.21	97.31	96.7	84.31	89.43	91.55	91.01	88.48	84.31	69.43	51.87	39.64	20.88	-9.61
1655.1	79.61	97.61	96.7	84.69	89.34	91.41	90.91	88.71	84.41	69.48	51.89	42.65	22.32	-8.93
1594.4	80.01	97.91	96.7	84.89	89.29	91.31	90.86	88.91	84.49	69.51	51.91	44.16	23.06	-8.76
1545.9	79.21	97.11	96.1	83.91	89.04	90.83	90.69	88.19	84.07	69.28	52.09	41.36	24.17	-7.17
1505.1	78.51	96.31	95.5	83.09	88.77	90.52	90.46	87.51	83.76	69.06	51.87	40.49	23.49	-6.82
1469.7	78.71	96.51	95.6	83.18	88.77	90.51	90.46	87.71	83.85	69.04	52.18	41.49	24.03	-6.78
1438.6	78.91	96.81	95.4	82.53	88.44	90.24	90.26	87.56	83.67	68.96	51.95	42.07	24.11	-6.83
1411.7	77.41	96.31	95.1	81.84	88.12	89.93	90.03	87.43	83.57	68.78	51.78	42.28	23.52	-6.98
1387.3	76.01	96.01	94.7	81.48	87.97	89.76	89.88	87.28	83.43	68.68	51.68	42.28	23.39	-7.08
1365.1	76.01	96.01	94.5	81.29	87.88	89.67	89.79	87.19	83.34	68.59	51.59	42.19	23.30	-7.17
1345.1	75.91	95.91	94.4	81.19	87.78	89.57	89.69	87.09	83.24	68.49	51.49	42.09	23.20	-7.27
1326.9	75.81	95.81	94.3	81.09	87.68	89.47	89.59	86.99	83.14	68.39	51.39	41.99	23.10	-7.37
1310.3	75.71	95.71	94.2	80.99	87.58	89.37	89.49	86.89	83.04	68.29	51.29	41.89	23.00	-7.47
1295.1	75.61	95.61	94.1	80.89	87.48	89.27	89.39	86.79	82.94	68.19	51.19	41.79	22.90	-7.57
1281.1	75.51	95.51	94.0	80.79	87.38	89.17	89.29	86.69	82.84	68.09	51.09	41.69	22.80	-7.67
1268.2	75.41	95.41	93.9	80.69	87.28	89.07	89.19	86.59	82.74	67.99	50.99	41.59	22.70	-7.77
1256.3	75.31	95.31	93.8	80.59	87.18	88.97	89.09	86.49	82.64	67.89	50.89	41.49	22.60	-7.87
1245.3	75.21	95.21	93.7	80.49	87.08	88.87	88.99	86.39	82.54	67.79	50.79	41.39	22.50	-7.97
1235.2	75.11	95.11	93.6	80.39	86.98	88.77	88.89	86.29	82.44	67.69	50.69	41.29	22.40	-8.07
1225.9	75.01	95.01	93.5	80.29	86.88	88.67	88.79	86.19	82.34	67.59	50.59	41.19	22.30	-8.17
1217.3	74.91	94.91	93.4	80.19	86.78	88.57	88.69	86.09	82.24	67.49	50.49	41.09	22.20	-8.27
1209.4	74.81	94.81	93.3	80.09	86.68	88.47	88.59	85.99	82.14	67.39	50.39	40.99	22.10	-8.37
1202.1	74.71	94.71	93.2	79.99	86.58	88.37	88.49	85.89	82.04	67.29	50.29	40.89	22.00	-8.47
1195.5	74.61	94.61	93.1	79.89	86.48	88.27	88.39	85.79	81.94	67.19	50.19	40.79	21.90	-8.57
1189.4	74.51	94.51	93.0	79.79	86.38	88.17	88.29	85.69	81.84	67.09	50.09	40.69	21.80	-8.67
1183.9	74.41	94.41	92.9	79.69	86.28	88.07	88.19	85.59	81.74	66.99	49.99	40.59	21.70	-8.77
1178.9	74.31	94.31	92.8	79.59	86.18	87.97	88.09	85.49	81.64	66.89	49.89	40.49	21.60	-8.87
1174.4	74.21	94.21	92.7	79.49	86.08	87.87	87.99	85.39	81.54	66.79	49.79	40.39	21.50	-8.97
1170.3	74.11	94.11	92.6	79.39	85.98	87.77	87.89	85.29	81.44	66.69	49.69	40.29	21.40	-9.07
1166.7	74.01	94.01	92.5	79.29	85.88	87.67	87.79	85.19	81.34	66.59	49.59	40.19	21.30	-9.17
1163.5	73.91	93.91	92.4	79.19	85.78	87.57	87.69	85.09	81.24	66.49	49.49	40.09	21.20	-9.27
1160.8	73.81	93.81	92.3	79.09	85.68	87.47	87.59	84.99	81.14	66.39	49.39	39.99	21.10	-9.37
1158.5	73.71	93.71	92.2	78.99	85.58	87.37	87.49	84.89	81.04	66.29	49.29	39.89	21.00	-9.47
1156.7	73.61	93.61	92.1	78.89	85.48	87.27	87.39	84.79	80.94	66.19	49.19	39.79	20.90	-9.57
1155.3	73.51	93.51	92.0	78.79	85.38	87.17	87.29	84.69	80.84	66.09	49.09	39.69	20.80	-9.67
1154.4	73.41	93.41	91.9	78.69	85.28	87.07	87.19	84.59	80.74	65.99	48.99	39.59	20.70	-9.77
1153.9	73.31	93.31	91.8	78.59	85.18	86.97	87.09	84.49	80.64	65.89	48.89	39.49	20.60	-9.87
1153.9	73.21	93.21	91.7	78.49	85.08	86.87	86.99	84.39	80.54	65.79	48.79	39.39	20.50	-9.97

[illegible]	•	12N.00 (R32.00)
AXIAL POSITION OF PRIMARY RNT. SECONDARY (INCH)	•	[illegible]
PRIMARY TEMPERATURE (R)	•	[illegible]
SECONDARY TEMPERATURE (R)	•	520.000
PRIMARY PRESSURE RATIO	•	1.000
AREA RATIO	•	1.000
VELOCITY RATIO	•	.000
PRIMARY VELOCITY (FT/SEC)	•	000.000
MASS FLOW RATIO	•	[illegible]
PRIMARY MASS FLOW (LB/SEC)	•	.000
THRUST (LBS)	•	24.000
ENVIRONMENTAL TEMPERATURE (R)	•	520.000
ENVIRONMENTAL PRESSURE (IN.HG)	•	29.000
ENVIRONMENTAL HUMIDITY (PER CENT)	•	70.000
CALIBRATION FACTOR INV TO OVRSL CNT	•	[illegible]
INSTRUMENTATION NOISE FLOOR (DB)	•	50.000

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	1.259858+00	131.0	THRUST	POWER LEVEL(DB)
500	1.551937E-02	111.9	10000	157.2
1000	[illegible]	120.7	20000	160.2
2000	3.219223E-01	125.1	40000	163.2
4000	[illegible]	129.0	80000	166.2
8000	2.771052E-01	124.4		
16000	[illegible]	122.0		
31500	6.188988E-02	117.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE BAND SOUND PRESSURE LEVELS (DB)						OVER ALL
10.0	81.0	99.0	102.7	99.4	94.2	94.4	84.9	106.9
20.0	78.9	99.8	103.8	99.7	95.5	99.6	86.9	106.6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30.0	80.0	97.6	101.9	100.3	97.3	92.5	87.2	106.1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40.0	83.4	94.8	98.9	99.1	97.9	93.8	88.8	105.5
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50.0	81.7	90.0	93.9	96.9	97.8	94.2	89.6	102.7
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60.0	80.5	87.5	92.0	94.0	93.5	93.6	89.4	100.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70.0	79.6	86.6	91.6	93.7	94.5	92.9	89.2	99.6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80.0	78.7	85.8	89.9	92.2	93.5	91.9	89.4	98.8
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90.0	77.9	84.5	89.4	92.0	93.0	92.0	89.9	98.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.0	78.6	83.1	88.3	91.4	92.2	92.0	89.8	97.6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110.0	79.5	81.3	86.9	89.7	91.7	90.5	89.3	97.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MODEL THRUST = 20.000 FULL SCALE THRUST = 24000.000

[illegible]	[illegible]	[illegible]	[illegible]	19.9	OCTAVE [illegible] 39.8	[illegible] 79.9	[illegible] 159.5	[illegible] 319.1	[illegible] 637.3	[illegible] 1591.2	[illegible] 2182.8	[illegible] 4339.1	[illegible] 8568.8	[illegible] 17216.5
[illegible]	78.81	46.31	88.1	53.89	70.89	77.19	72.76	67.67	60.82	49.61	33.44	9.63	-48.65	-121.66
[illegible]	81.51	48.31	88.9	57.19	76.91	84.89	79.32	71.38	64.70	53.06	42.79	21.15	-10.87	-78.91
[illegible]	84.31	49.31	89.7	60.81	77.48	81.18	76.42	74.52	69.12	59.57	49.69	32.99	-4.35	-51.12
[illegible]	86.71	49.31	89.8	59.23	77.74	82.32	81.24	78.81	73.48	62.85	53.56	37.42	18.87	-32.51
[illegible]	88.51	47.21	88.9	59.23	77.19	81.97	81.49	79.18	73.15	64.15	55.67	42.58	19.59	-16.52
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2121.3	90.51	49.01	90.5	60.59	76.98	80.19	80.33	78.82	74.15	67.14	60.21	50.36	32.30	-1.19
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1831.7	90.21	47.91	85.6	65.36	73.12	78.61	78.96	76.16	71.05	61.36	64.58	53.72	36.18	8.65
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1655.1	88.51	47.91	84.4	64.98	72.24	77.41	78.18	76.99	77.24	62.35	65.69	55.84	38.88	12.35
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1552.9	88.81	47.21	84.8	64.96	71.95	76.98	78.18	76.98	77.18	62.69	65.78	55.87	40.98	14.96
1523.1	89.91	47.11	84.9	64.97	71.96	76.99	78.18	76.97	78.98	62.23	66.16	55.97	41.48	17.68
1505.7	89.51	46.81	84.1	64.92	71.99	76.93	78.18	76.96	78.93	61.78	62.63	55.36	41.21	17.65
1488.8	89.51	46.81	84.1	63.89	74.73	76.93	78.11	76.98	78.98	61.67	65.57	54.18	41.17	17.68
1464.7	89.11	46.21	83.8	63.28	74.58	76.93	77.93	76.96	78.96	61.63	65.46	54.07	41.16	17.38
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1557.9	88.31	45.31	82.4	61.92	69.93	73.85	74.84	73.88	73.78	58.29	61.93	51.03	40.83	16.13
1534.1	87.81	44.71	82.2	61.37	69.49	72.49	74.79	73.83	73.74	58.24	61.88	51.18	40.78	16.27
1455.1	86.61	43.71	81.1	59.59	68.87	71.15	73.42	72.48	72.58	56.84	60.58	50.59	39.33	14.69

RUN NUMBER	=	320.00 (762.00)
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	=	-8.500
PRIMARY TEMPERATURE (R)	=	930.000
SECONDARY TEMPERATURE (R)	=	530.000
PRIMARY PRESSURE RATIO	=	1.322
AREA RATIO	=	1.000
VELOCITY RATIO	=	1.472
PRIMARY VELOCITY (FT/SEC)	=	700.451
MASS FLOW RATIO	=	1.074
PRIMARY MASS FLOW (LB/SEC)	=	.317
THRUST (LBS)	=	29.000
ENVIRONMENTAL TEMPERATURE (R)	=	520.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	=	70.500
CALIBRATION FACTOR (MY TO DY/SQ CM)	=	.045
INSTRUMENTATION NOISE FLOOR (DB)	=	82.585

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.433926+00	133.9
500	2.904066-02	114.6
1000	1.933806-01	122.9
2000	5.550246-01	127.4
4000	5.810996-01	127.6
8000	5.251226-01	127.2
16000	3.540316-01	125.5
31500	1.954106-01	122.9

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	159.2
20000	162.2
40000	165.3
80000	168.3

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
10.0	94.4	102.6	105.1	101.6	96.7	92.5	86.9	109.8
20.0	93.4	102.2	106.2	103.4	98.6	94.2	89.5	109.7
25.0	92.5	101.7	105.8	103.5	99.3	94.9	90.3	109.9
30.0	90.8	99.6	104.7	103.7	100.8	96.1	91.2	109.1
35.0	89.1	97.0	102.7	102.7	100.8	97.0	92.0	108.0
40.0	86.6	95.1	100.1	101.9	101.1	97.6	93.2	107.6
45.0	84.0	92.0	98.5	100.5	100.8	97.6	93.7	106.0
50.0	83.3	91.4	96.7	99.3	99.8	97.6	93.8	105.1
55.0	82.6	89.9	95.7	97.7	98.7	96.8	93.7	104.0
60.0	82.1	88.9	94.7	97.0	97.9	96.5	93.5	103.4
65.0	82.5	88.6	94.1	96.4	97.4	96.1	93.4	102.9
70.0	81.7	88.1	93.3	95.9	96.8	95.6	93.3	102.4
75.0	80.0	87.6	92.8	95.1	96.3	95.4	93.2	102.0
80.0	80.8	87.2	92.3	95.0	96.2	95.3	93.2	101.8
85.0	80.3	86.9	92.1	94.5	95.9	95.0	93.2	101.5
90.0	79.7	86.1	91.6	94.1	95.5	94.6	93.3	101.2
95.0	79.0	86.8	91.1	93.8	95.3	94.4	93.3	101.1
100.0	78.6	85.5	90.8	93.3	94.9	95.5	94.1	101.1
105.0	78.4	84.7	90.1	93.1	94.8	95.3	94.0	100.9
110.0	77.4	84.8	89.8	92.8	94.5	95.6	94.3	100.9
115.0	77.1	84.0	89.7	92.5	94.4	95.9	94.8	100.7

MODEL THRUST = 29.000 FULL SCALE THRUST = 20000.000

LV	PNOY	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 19.0	38.1	76.2	152.3	304.6	609.3	1199.5	2399.0	4759.9	9519.7	19039.4
8795.6	80.0(79.5)	82.1	68.10	74.24	78.67	74.99	64.01	62.32	50.73	34.23	4.28	-48.72	-134.82
4388.7	86.7(86.1)	85.0	69.61	76.28	82.23	79.14	73.69	67.34	58.09	44.87	21.48	-19.36	-89.24
3949.3	87.3(86.4)	87.2	70.43	79.46	83.68	81.21	76.60	70.46	62.19	50.92	31.42	-2.20	-56.10
3884.6	89.5(88.4)	88.1	70.16	78.98	84.02	81.84	78.51	73.49	66.53	55.55	38.59	-9.71	-38.31
2818.2	90.8(89.4)	89.2	69.68	78.13	83.24	83.00	80.80	75.80	68.71	59.62	44.45	18.89	-21.61
2419.4	91.9(90.6)	89.1	68.14	76.00	81.49	83.68	82.12	77.02	69.77	62.34	48.48	25.39	-11.11
2121.3	92.4(90.5)	87.7	67.26	75.25	80.87	82.78	82.44	78.81	72.52	64.98	51.71	30.41	-3.01
1958.1	92.8(90.5)	87.7	66.37	74.98	79.74	82.58	82.45	79.38	73.50	66.07	53.89	34.00	2.92
1831.2	92.5(90.1)	87.2	66.11	73.53	79.31	81.30	81.97	79.27	74.29	67.02	55.51	36.71	7.46
1732.1	92.5(89.9)	87.0	66.10	73.83	78.89	81.02	81.08	78.58	74.74	67.70	56.65	38.77	10.87
1655.1	92.6(89.9)	86.9	66.04	73.20	78.61	80.81	81.61	79.42	75.20	68.34	57.44	40.34	13.63
1590.7	92.6(89.7)	86.7	66.46	73.47	78.11	81.02	81.33	79.63	75.47	68.79	58.32	41.58	15.67
1552.9	92.5(89.6)	86.5	65.83	72.71	77.42	80.69	81.22	79.47	75.64	69.02	58.80	42.40	17.14
1523.1	92.6(89.6)	86.5	66.10	72.42	77.51	80.19	81.09	79.61	75.86	69.31	59.23	43.09	18.25
1504.7	92.5(89.4)	86.3	65.85	71.84	77.44	79.72	80.84	79.36	76.06	69.55	59.55	43.56	18.97
1500.4	92.2(89.1)	86.0	65.10	71.41	77.00	79.62	80.54	79.42	76.17	69.68	59.78	43.76	19.25
1505.7	92.2(89.0)	85.9	64.44	71.58	76.47	79.46	80.68	79.29	76.13	69.62	59.69	43.63	19.04
1523.1	92.4(89.1)	86.1	63.89	70.96	76.06	79.53	80.98	79.65	76.41	70.04	60.18	44.06	19.20
1552.9	92.0(88.7)	85.3	63.49	69.77	75.18	78.97	79.29	79.43	76.46	69.84	59.62	43.22	17.96
1604.3	91.9(88.4)	85.0	62.68	68.80	74.53	78.66	79.04	79.34	76.47	69.75	59.33	42.66	16.87
1654.1	91.3(88.1)	84.5	61.88	67.33	73.81	78.26	78.97	79.19	76.73	69.88	58.14	40.90	14.17

RUN NUMBER	=	930.004
AXIAL POSITION OF PRIMARY RNT. SECONDARY (INS.)	=	-8.500
PRIMARY TEMPERATURE (R)	=	933.000
SECONDARY TEMPERATURE (R)	=	530.000
PRIMARY PRESSURE RATIO	=	2.228
AREA RATIO	=	2.007
VELOCITY RATIO	=	.399
PRIMARY VELOCITY (FT/SEC)	=	1144.130
MASS FLOW RATIO	=	.744
PRIMARY MASS FLOW (LB/SEC)	=	.353
THRUST (LBS)	=	14.000
ENVIRONMENTAL TEMPERATURE (R)	=	519.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	=	67.000
CALIBRATION FACTOR (MV TO DYN/SQ CM)	=	.022
INSTRUMENTATION NOISE FLOOR (DB)	=	56.584

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.05193E+00	130.2
500	1.11567E-02	110.5
1000	5.74185E-02	117.6
2000	2.36950E-01	123.7
4000	3.88225E-01	125.9
8000	2.36612E-01	123.7
16000	9.19520E-02	119.6
31500	3.00646E-02	114.8

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	156.8
20000	161.8
40000	164.8
80000	167.8

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	87.9	94.1	96.9	94.6	89.2	83.3	78.2	100.8
20.0	87.6	96.2	98.0	96.3	90.6	85.1	80.6	101.9
25.0	88.9	95.3	98.0	97.4	92.2	86.7	83.0	102.3
30.0	85.9	92.8	98.1	98.7	93.7	88.1	83.8	102.9
35.0	84.7	92.1	98.0	99.7	95.4	90.0	85.3	103.5
40.0	84.1	91.0	98.0	100.3	97.3	91.6	86.5	104.1
45.0	82.9	90.4	97.1	100.0	97.5	92.6	87.2	103.9
50.0	82.0	89.4	96.7	99.8	97.8	93.3	87.5	103.8
55.0	81.3	88.5	95.8	99.0	97.1	93.0	87.7	103.0
60.0	80.2	87.4	94.7	97.8	96.0	92.0	87.1	102.0
65.0	79.1	86.7	94.0	96.9	95.6	91.6	86.8	101.3
70.0	78.3	86.0	92.9	95.7	94.3	90.9	86.1	100.2
75.0	77.7	85.9	92.1	95.3	94.1	90.8	85.5	99.8
80.0	77.7	85.4	91.4	94.4	93.3	90.2	86.0	99.1
85.0	77.0	85.0	91.1	93.6	92.7	89.6	85.0	98.4
90.0	78.1	84.6	91.2	92.5	92.3	88.5	84.2	97.9
95.0	76.5	83.6	90.0	91.4	91.4	87.9	83.9	97.1
100.0	74.8	81.9	90.2	91.7	90.5	87.1	83.1	96.6
105.0	73.7	80.0	88.9	91.4	90.2	86.4	82.3	96.0
110.0	73.3	79.3	86.9	90.4	89.0	86.7	82.3	94.9
115.0	72.8	78.5	84.5	90.4	86.9	84.3	78.9	92.7

MODEL THRUST = 14.000 FULL SCALE THRUST = 20000.000

θ	PNDB	OASPL	13.2	OCTAVE 26.5	BAND 52.9	SOUND 105.8	PRESSURE 211.7	LEVELS 423.3	833.4	1664.8	3307.2	6614.4	13228.8
5795.6	73.4(72.7)	77.5	64.78	70.48	73.70	71.20	65.31	57.83	48.96	37.00	15.18	-24.57	-92.03
4385.7	78.0(77.5)	81.0	66.08	73.47	77.17	75.41	69.75	62.80	59.30	49.85	28.78	-2.52	-84.31
3549.3	82.4(81.1)	83.2	68.00	74.48	79.10	78.39	72.85	66.44	60.48	51.91	37.39	11.48	-30.69
3000.0	85.4(83.9)	85.3	68.43	75.40	80.83	81.10	75.85	69.82	63.21	55.37	42.83	20.81	-15.56
2615.2	88.0(86.3)	87.1	68.46	75.43	81.69	83.40	78.66	72.70	66.35	59.31	47.82	28.24	-3.85
2333.0	90.3(88.4)	89.1	68.86	75.70	82.67	84.96	81.70	75.40	68.80	62.19	51.61	33.82	4.46
2121.3	91.5(89.4)	89.3	68.52	75.44	82.61	85.51	82.88	77.30	70.52	64.24	54.15	37.98	11.31
1958.1	92.5(90.0)	89.9	68.28	75.43	82.92	86.03	83.82	78.88	71.74	65.71	56.39	40.96	14.16
1831.2	92.7(90.3)	89.7	68.12	75.40	82.48	85.76	83.70	79.11	72.79	66.96	58.01	43.48	16.03
1732.1	92.3(89.8)	89.1	67.92	74.68	82.06	85.05	83.15	78.62	72.61	66.94	58.31	44.33	17.07
1655.1	92.3(89.7)	88.9	66.80	74.19	81.70	84.55	83.10	78.72	72.80	67.24	58.86	45.37	17.96
1596.1	91.0(88.8)	88.1	66.32	74.05	80.90	83.66	82.11	78.27	72.47	67.00	58.82	45.78	18.94
1552.9	91.5(88.8)	87.9	65.94	74.14	80.48	83.58	82.14	78.44	72.17	66.77	58.72	45.88	19.61
1521.1	91.3(88.4)	87.6	66.11	73.87	79.79	82.76	81.60	78.09	72.87	67.52	59.57	46.91	20.97
1504.7	90.7(87.7)	86.8	65.55	73.62	79.68	81.86	81.10	77.40	71.95	66.62	58.73	46.18	20.44
1500.0	90.1(87.2)	86.1	64.71	73.19	79.88	81.06	80.73	76.50	71.21	65.89	58.02	45.51	19.83
1505.7	89.4(86.4)	85.5	64.83	72.28	79.31	80.10	79.76	74.88	70.87	65.56	57.65	45.18	19.35
1519.1	88.4(85.5)	84.7	63.96	72.04	78.45	79.13	78.78	73.96	69.94	64.63	56.88	44.93	18.98
1542.9	87.4(84.8)	84.1	61.46	69.68	77.13	78.59	78.32	74.09	69.96	63.44	55.50	42.65	17.18
1574.1	86.6(83.6)	82.8	61.31	67.59	76.88	78.98	78.41	74.15	68.68	63.19	55.01	41.89	21.13
1615.1	83.4(80.7)	80.3	60.58	66.26	76.23	78.11	76.06	71.42	64.95	59.34	51.02	37.92	14.11

RUN NUMBER	= 331.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INCH)	= -.4500
PRIMARY TEMPERATURE (R)	= 516.000
SECONDARY TEMPERATURE (R)	= 534.000
PRIMARY PRESSURE RATIO	= 1.688
AREA RATIO	= 2.007
VELOCITY RATIO	= .985
PRIMARY VELOCITY (FT/SEC)	= 905.738
MASS FLOW RATIO	= 1.057
PRIMARY MASS FLOW (LB/SEC)	= .342
THRUST (LBS)	= 28.000
ENVIRONMENTAL TEMPERATURE (R)	= 519.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	= 67.000
CALIBRATION FACTOR (DB TO DT/DW CM)	= .012
INSTRUMENTATION NOISE FLOOR (DB)	= 59.573

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.79786E+00	132.5	THRUST	POWER LEVEL(DB)
			10000	156.1
500	1.98064E-02	113.0	20000	161.1
1000	1.19396E-01	120.8	40000	164.1
2000	3.63751E-01	125.6	80000	167.1
4000	4.45851E-01	126.5		
8000	4.70128E-01	126.7		
16000	2.79751E-01	124.4		
31500	1.06521E-01	120.3		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	92.5	98.0	101.6	98.7	94.6	88.9	83.9	105.4
20.0	90.8	98.3	102.1	100.0	96.3	92.1	88.6	106.1
25.0	89.5	98.1	102.4	101.2	98.9	94.8	90.5	107.0
30.0	88.4	96.8	102.0	102.0	99.9	95.4	90.5	107.1
35.0	86.0	95.2	100.9	101.4	100.7	97.1	92.2	106.8
40.0	84.9	93.4	99.1	100.7	101.0	98.1	93.1	106.4
45.0	84.1	92.0	98.2	99.4	100.3	97.9	93.5	105.8
50.0	83.0	90.5	96.4	98.2	99.3	97.3	92.9	104.5
55.0	81.9	89.8	95.9	97.5	98.7	96.8	92.8	103.9
60.0	81.8	89.8	95.9	96.7	98.1	96.1	92.0	103.2
65.0	81.7	88.2	94.1	94.2	97.0	95.6	91.2	102.0
70.0	80.9	88.0	93.7	95.8	96.9	95.2	91.3	102.1
75.0	81.5	88.0	92.9	95.3	96.1	94.2	90.0	101.9
80.0	80.3	87.3	92.3	94.7	95.5	93.5	89.6	100.8
85.0	79.8	87.1	92.2	94.5	95.1	93.3	89.6	100.5
90.0	79.3	86.5	91.6	93.7	94.9	93.1	89.4	100.1
95.0	79.0	86.1	91.4	93.3	94.5	92.7	89.0	99.7
100.0	78.6	85.8	90.6	92.6	93.6	92.1	88.4	99.0
105.0	78.7	84.0	89.7	92.2	93.0	92.1	88.0	98.7
110.0	78.5	82.8	88.7	92.2	93.2	92.3	88.5	98.5
115.0	77.1	81.5	87.1	90.9	92.0	92.0	88.4	97.8

MODEL THRUST = 28.000 FULL SCALE THRUST = 20000.000

LV	PNOB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS									
			18.7	37.4	74.8	149.7	299.3	598.7	1178.6	2357.2	4677.1	9354.1	18708.3
5795.6	76.5	76.1	78.9	66.32	72.68	75.30	72.09	66.50	58.88	47.95	31.70	2.20	-50.10	-135.24
4385.7	81.6	80.8	82.0	67.05	74.55	78.30	78.91	71.54	65.47	57.54	44.61	21.45	-18.89	-84.01
3549.3	85.8	84.8	86.7	67.61	76.14	80.65	79.01	76.21	70.57	62.69	51.58	32.34	-.85	-54.15
3000.0	88.2	87.1	86.3	67.95	76.37	81.53	81.39	78.74	73.01	66.06	55.21	38.48	9.97	-18.69
2615.2	90.3	88.8	87.0	67.35	75.96	81.21	81.92	80.84	76.15	68.58	59.61	44.64	19.48	-20.67
2333.1	91.2	90.0	87.6	66.44	75.10	80.48	82.23	82.21	78.27	70.96	62.02	48.49	28.10	-9.44
2121.3	92.2	90.3	87.6	66.64	74.58	80.74	81.85	82.38	79.07	72.34	64.49	51.79	36.75	-2.32
1958.1	92.2	90.0	87.2	66.24	73.72	79.87	81.71	82.15	79.28	72.98	65.47	53.52	39.86	3.11
1831.2	92.4	90.1	87.2	65.34	73.67	79.35	81.21	82.10	79.49	73.59	66.40	55.03	36.45	7.50
1732.1	92.3	90.0	87.1	66.16	73.77	79.33	80.86	82.07	79.28	73.40	66.44	55.82	37.79	10.26
1655.1	92.2	89.8	86.9	66.44	72.90	78.81	80.84	81.95	79.25	73.20	66.41	55.84	38.77	12.31
1596.3	92.1	89.6	86.7	65.93	72.40	78.29	80.69	81.91	79.16	73.07	67.08	56.12	40.14	14.32
1552.9	91.7	89.1	86.3	66.77	73.29	78.12	80.44	81.84	78.46	73.33	66.78	56.88	40.47	15.46
1523.1	91.2	88.6	85.8	65.69	72.71	77.67	80.04	80.57	77.92	72.96	66.66	56.09	40.14	15.95
1505.7	91.0	88.4	85.6	65.38	72.89	77.69	79.76	80.28	77.87	72.69	66.15	56.26	40.46	16.12
1500.0	90.8	88.1	85.2	64.04	72.07	77.10	79.19	80.10	77.65	72.48	66.05	56.19	40.63	16.17
1505.7	90.3	87.6	84.9	64.80	71.61	76.94	78.69	79.65	77.21	72.04	65.60	55.71	39.90	15.56
1523.1	89.6	86.7	84.9	64.04	70.96	76.31	78.04	79.09	76.56	71.31	64.83	54.87	38.91	14.37
1552.9	89.1	86.3	83.5	61.44	69.92	74.93	77.14	78.21	76.40	71.52	64.98	54.87	38.67	13.65
1596.3	88.5	85.8	83.0	61.49	69.49	73.78	77.07	77.89	76.80	70.97	64.22	53.92	37.35	11.72
1655.1	87.5	84.8	81.9	61.78	65.23	71.76	75.44	76.77	75.64	70.37	63.59	53.02	35.94	9.49

[illegible]	
AXIAL POSITION OF PRIMARY NRT. SECONDARY (IN.)	= 330.000
PRIMARY TEMPERATURE (R)	= 958.500
SECONDARY TEMPERATURE (R)	= 537.000
PRIMARY PRESSURE RATIO	= 5.430
AREA RATIO	= 1.322
VELOCITY RATIO	= 2.087
PRIMARY VELOCITY (FT/SEC)	= 1.472
MASS FLOW RATIO	= 1982.411
PRIMARY PASS FLOW (LB/SEC)	= 2.491
THRUST (LBS)	= .317
ENVIRONMENTAL TEMPERATURE (R)	= 40.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 519.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.698
CALIBRATION FACTOR (DB TO PF/SQ CM)	= 67.000
INSTRUMENTATION NOISE FLOOR (DB)	= .051
	= 63.559

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.74092E+00	136.8
500	3.78795E-02	115.8
1000	2.32510E-01	123.7
2000	8.17771E-01	129.1
4000	1.00813E+00	130.0
8000	1.22545E+00	130.9
16000	8.93231E-01	129.5
31500	4.46[illegible]E-01	126.5

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.7
20000	163.7
40000	166.8
80000	169.8

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	95.0	103.0	104.6	103.1	99.5	95.1	91.2	108.0
20.0	93.9	101.8	105.8	104.1	100.9	97.3	93.8	110.1
25.0	92.9	101.3	106.0	104.0	103.7	100.4	98.2	111.5
30.0	91.1	100.3	106.3	104.5	104.3	101.0	97.1	111.4
35.0	89.4	98.4	103.0	100.9	102.9	100.2	98.0	111.0
40.0	87.8	96.5	102.9	105.1	105.8	103.2	99.2	110.9
45.0	89.1	94.2	100.8	103.9	104.7	103.3	99.6	109.9
50.0	84.1	92.9	99.1	101.7	103.5	102.5	99.0	108.7
55.0	84.0	92.1	98.0	100.2	102.6	101.8	98.9	107.7
60.0	84.1	91.8	97.3	99.5	101.5	100.6	98.1	106.8
65.0	84.2	91.9	96.9	99.4	101.9	100.0	97.3	106.3
70.0	84.0	90.7	96.7	98.5	99.8	99.0	96.3	105.4
75.0	83.8	90.7	96.0	98.1	99.8	98.0	96.4	105.2
80.0	83.5	90.1	95.4	97.7	98.9	98.2	96.1	104.6
85.0	83.2	89.9	95.1	97.6	98.9	97.9	95.9	104.6
90.0	82.9	89.5	94.5	96.6	98.3	97.5	95.3	103.8
95.0	82.5	89.1	94.5	96.4	98.1	97.8	95.3	103.8
100.0	81.8	88.3	93.8	96.1	98.0	98.1	95.4	103.7
105.0	80.0	87.3	93.2	95.6	97.9	98.3	95.0	103.7
110.0	80.2	86.3	92.5	95.8	97.8	97.6	95.2	103.3
115.0	79.8	85.4	91.2	95.0	97.7	98.0	95.3	103.3

MODEL THRUST = 40.000 FULL SCALE THRUST = 20000.00

LV	PHON	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 22.4	44.7	89.4	178.9	357.8	715.5	1408.7	2817.4	5590.2	11188.3	22366.7
5795.6	80.0(79.7)	80.5	67.26	74.21	76.75	73.80	69.01	62.44	51.30	32.26	-2.06	-61.84	-156.94
4385.7	85.2(84.6)	84.2	68.57	76.65	80.30	78.36	74.27	68.25	59.28	44.14	17.44	-20.53	-101.23
3549.3	89.7(88.9)	87.4	69.68	77.86	82.99	82.22	78.15	73.97	65.33	52.51	30.33	-7.44	-66.85
3000.0	92.1(91.0)	89.0	69.09	78.30	84.18	84.17	81.82	78.64	68.86	57.55	38.34	5.95	-44.73
2615.2	94.6(93.3)	90.2	68.68	77.80	84.13	85.42	84.33	79.74	72.52	62.27	45.14	16.82	-28.64
2333.4	95.7(94.2)	90.3	67.99	76.98	83.00	84.33	84.31	81.63	74.46	65.00	49.19	23.93	-18.99
2121.1	96.8(94.9)	90.8	66.72	75.24	81.80	84.27	85.09	82.54	76.36	67.49	53.02	29.24	-7.47
1958.1	96.9(93.8)	89.0	65.81	74.47	80.78	83.78	84.86	82.51	76.85	68.25	54.65	32.47	-1.65
1831.2	95.4(93.2)	87.1	66.26	74.40	80.22	82.91	84.09	82.01	77.38	69.31	56.41	35.48	3.37
1732.1	95.2(92.4)	86.8	66.84	74.93	80.66	82.13	83.78	81.92	77.29	69.50	57.14	37.17	6.66
1655.1	95.1(92.8)	86.7	67.41	74.14	80.82	82.38	83.60	81.73	76.99	69.41	57.47	38.25	8.95
1595.3	94.7(92.2)	86.2	67.45	74.17	80.11	81.67	82.79	81.11	76.84	69.06	57.44	38.80	10.42
1552.9	94.7(92.3)	86.2	67.55	74.41	79.69	81.68	82.48	81.36	76.87	69.57	58.18	39.96	12.28
1523.1	94.1(91.8)	87.8	67.43	74.52	79.22	81.41	82.32	80.92	76.76	69.54	58.31	40.30	13.18
1504.7	94.3(91.8)	87.7	67.24	73.90	79.05	81.25	82.42	80.97	76.66	69.49	58.36	40.61	13.68
1500.0	93.7(91.2)	87.1	66.97	73.68	78.67	80.69	81.88	80.22	76.16	69.01	57.98	40.21	13.17
1505.7	93.6(91.1)	87.0	66.96	73.65	78.44	80.28	81.61	80.35	76.18	69.01	57.87	40.12	13.19
1521.1	93.6(90.9)	86.8	65.68	72.51	77.48	79.48	81.07	80.07	76.10	68.89	57.85	39.93	12.93
1542.9	93.2(90.6)	86.4	64.37	70.98	76.85	79.55	81.12	80.70	76.36	69.08	57.60	39.39	11.71
1594.9	92.4(90.0)	85.8	63.72	69.98	75.98	79.11	80.83	80.48	76.29	67.87	56.24	37.61	9.26
1605.1	92.2(89.7)	85.5	62.97	68.54	76.33	77.38	80.39	80.32	76.08	67.60	55.65	36.26	6.94

RUN NUMBER	= 333.000
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS.)	= -8.500
PRIMARY TEMPERATURE (R)	= 524.000
SECONDARY TEMPERATURE (R)	= 526.000
PRIMARY PRESSURE RATIO	= 2.226
AREA RATIO	= 4.858
VELOCITY RATIO	= .399
PRIMARY VELOCITY (FT/SEC)	= 1140.748
MASS FLOW RATIO	= 1.781
PRIMARY MASS FLOW (LB/SEC)	= .350
THRUST (LBS)	= 21.500
ENVIRONMENTAL TEMPERATURE (R)	= 52.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.500
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .020
INSTRUMENTATION NOISE FLOOR (DB)	= 55.600

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.20229E+00	135.1
500	2.72575E-02	114.4
1000	1.94389E-01	122.9
2000	8.64857E-01	129.4
4000	1.06786E+00	130.3
8000	6.75503E-01	128.3
16000	2.73453E-01	124.4
31500	9.89836E-02	120.0

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	161.7
20000	164.7
40000	167.8
80000	170.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	86.4	91.9	89.6	91.7	85.7	81.2	75.6	96.8
20.0	86.3	92.9	95.4	93.0	87.5	82.3	78.0	99.3
25.0	86.0	93.4	96.0	95.4	89.7	83.8	79.5	100.7
30.0	85.3	92.3	97.1	96.6	90.5	84.6	81.0	101.1
35.0	83.5	92.0	97.5	97.8	92.2	84.1	81.9	102.0
40.0	82.6	90.7	97.5	99.3	94.9	86.2	83.2	102.9
45.0	81.6	89.7	97.3	99.1	95.8	89.8	84.1	102.9
50.0	80.2	88.8	97.0	99.0	96.8	90.6	84.9	103.0
55.0	79.2	88.4	96.6	98.2	96.6	91.6	86.1	102.6
60.0	78.2	88.0	95.9	97.2	95.8	91.3	86.6	101.9
65.0	78.2	87.5	95.8	96.4	95.4	91.0	86.7	101.3
70.0	78.0	87.5	94.4	95.6	94.8	91.2	86.5	100.7
75.0	77.4	87.4	93.5	95.1	94.0	90.4	85.9	100.1
80.0	76.7	87.5	93.9	94.8	93.7	90.5	86.1	100.0
85.0	76.0	87.2	93.6	94.0	93.3	90.7	86.8	99.6
90.0	75.6	86.8	93.4	92.8	92.9	90.2	86.8	99.1
95.0	75.3	86.8	94.1	92.5	92.9	89.7	85.8	99.1
100.0	74.8	86.7	93.5	92.8	91.9	89.4	84.9	98.6
105.0	73.8	83.2	92.8	93.0	91.3	89.0	85.3	98.0
110.0	73.5	81.6	90.2	92.0	90.7	89.3	84.7	97.1
115.0	72.9	81.3	89.4	90.1	88.9	88.8	84.2	95.6

MODEL THRUST = 21.500 FULL SCALE THRUST = 20000.000

L.	PHDA.	OASPL	16.4	OCTAVE 32.8	BAND 65.6	SOUND 131.1	PRESSURE 262.3	LEVELS 524.6	1032.8	2065.6	4098.4	A)96.8	16393.6
8799.6	67.4	66.7	70.0	61.36	66.82	36.46	66.31	59.68	53.08	42.52	28.68	1.75	-45.69	-129.58
4398.7	77.1	72.0	76.5	69.66	78.39	72.69	76.16	66.88	57.32	46.23	37.57	16.42	-10.93	-74.38
3549.3	78.4	77.6	79.7	65.28	72.60	75.40	74.40	68.87	61.16	53.76	43.75	26.67	-3.60	-88.61
3000.0	81.2	80.0	81.7	68.97	73.61	77.78	76.69	70.86	63.68	57.55	48.63	33.95	7.47	-34.22
2615.2	84.1	82.8	83.7	69.38	73.93	78.34	78.53	73.85	66.40	60.14	51.98	38.45	14.51	-21.39
2331.6	86.7	85.3	85.6	69.68	73.53	80.30	82.07	77.35	69.76	62.43	57.22	42.83	22.03	-11.22
2121.3	88.2	86.6	86.4	69.32	73.41	80.97	82.73	79.14	72.35	66.02	57.63	44.10	26.91	-3.58
1958.1	89.6	87.9	87.2	64.40	73.22	81.36	83.26	80.88	73.97	66.53	59.67	46.78	30.85	2.67
1831.2	90.1	88.4	87.3	64.19	73.16	81.42	83.12	81.02	75.81	68.56	61.92	51.55	34.58	7.86
1732.1	90.5	88.6	87.1	63.66	73.68	81.38	82.57	80.99	75.76	69.65	63.23	53.26	37.05	11.89
1655.1	90.6	88.3	86.8	64.04	73.35	80.82	82.19	80.94	75.82	70.29	64.02	54.36	39.73	14.28
1596.3	90.6	88.2	86.8	64.16	73.68	80.81	81.88	80.71	76.50	70.41	64.26	54.43	39.66	15.97
1552.9	90.1	87.7	86.2	63.83	74.21	79.91	81.19	80.17	75.98	70.16	64.07	54.82	39.97	16.86
1523.1	90.2	87.7	86.3	61.26	74.11	80.47	81.31	79.99	76.28	70.57	64.56	55.43	40.81	16.88
1504.7	90.1	87.6	86.1	62.78	73.85	80.23	80.49	79.72	76.41	71.39	65.61	56.35	41.87	16.35
1498.6	89.9	87.1	85.6	62.16	73.49	80.32	79.19	79.29	76.13	71.43	65.66	56.63	41.89	15.96
1505.7	89.6	86.8	85.6	61.98	72.90	80.17	79.15	79.29	75.96	70.68	64.62	55.90	40.88	14.36
1523.1	89.0	86.2	85.0	61.42	71.94	80.02	78.18	78.21	74.16	70.34	64.24	54.91	40.50	13.66
1552.9	88.1	85.4	84.2	60.25	69.61	78.42	76.28	77.43	74.42	69.88	63.53	54.28	39.66	14.31
1596.3	87.1	84.4	83.8	59.65	67.74	76.17	74.66	76.96	74.47	69.66	62.49	53.07	37.89	14.28
1655.1	85.5	82.8	81.1	58.76	67.13	74.21	73.83	74.62	73.58	67.72	61.45	51.39	36.17	11.71

RUN NUMBER	= 334.000
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS.)	= -8.500
PRIMARY TEMPERATURE (R)	= 527.000
SECONDARY TEMPERATURE (R)	= 527.000
PRIMARY PRESSURE RATIO	= 1.560
AREA RATIO	= 4.856
VELOCITY RATIO	= 1.027
PRIMARY VELOCITY (FT/SEC)	= 871.584
MASS FLOW RATIO	= 3.674
PRIMARY MASS FLOW (LB/SEC)	= .347
THRUST (LBS)	= 54.000
ENVIRONMENTAL TEMPERATURE (R)	= 520.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.690
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.500
CALIBRATION FACTOR (DY TO DB/SQ CM)	= .960
INSTRUMENTATION NOISE FLOOR (DB)	= 61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.998664E+00	134.8
500	6.73808E-02	118.3
1000	3.16126E-01	125.0
2000	7.14623E-01	128.5
4000	7.24807E-01	128.6
8000	6.29506E-01	128.0
16000	3.70115E-01	125.7
31500	1.76001E-01	122.5

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.4
20000	160.5
40000	163.3
80000	166.5

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	96.9	102.8	102.9	99.1	93.6	90.9	84.5	107.2
20.0	97.2	103.1	104.4	100.1	95.8	91.4	86.2	108.4
25.0	95.9	102.9	105.2	101.7	97.5	92.4	86.1	109.0
30.0	94.7	102.4	105.3	102.3	98.7	94.2	90.0	109.2
35.0	92.4	100.9	104.4	103.1	99.7	95.2	90.8	108.8
40.0	90.4	98.2	102.9	102.7	100.8	95.9	92.0	107.9
45.0	88.7	96.2	100.9	102.0	101.0	97.0	93.2	107.2
50.0	87.3	94.2	99.3	100.8	100.4	96.9	93.4	106.1
55.0	89.4	96.9	97.8	99.9	99.8	97.2	93.8	105.3
60.0	88.8	91.9	97.3	99.6	99.3	97.0	93.4	104.9
65.0	88.2	91.9	96.9	98.8	99.1	96.9	93.6	104.6
70.0	85.5	91.4	95.9	98.1	98.4	96.8	93.7	104.2
75.0	85.6	91.0	95.8	97.6	97.9	96.2	93.7	103.8
80.0	85.2	91.0	94.9	97.4	97.8	96.2	93.2	103.5
85.0	84.1	90.9	94.9	97.2	97.5	95.7	92.9	103.2
90.0	84.3	89.6	94.8	96.9	97.4	95.5	93.0	103.1
95.0	83.1	89.8	94.2	96.1	97.4	95.7	92.9	102.8
100.0	82.8	88.8	94.0	96.2	97.6	96.0	93.3	102.9
105.0	82.1	87.9	93.9	96.0	97.2	96.0	93.4	102.8
110.0	81.8	86.4	92.7	96.1	97.4	96.6	93.2	102.7
115.0	80.6	85.8	91.9	95.6	96.9	96.4	93.3	102.2

MODEL THRUST = 54.000 FULL SCALE THRUST = 20000.000

LV	PNOBS	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 26.0	52.0	103.9	207.8	415.7	831.4	1638.8	3273.6	6495.2	12990.4	25980.8
8799.6	75.5	75.3	77.8	67.87	73.67	73.94	69.33	61.99	54.92	40.77	19.01	-10.85	-86.46 -190.31
4385.7	80.0	80.1	81.9	70.50	76.60	77.65	72.89	67.89	60.24	48.89	31.38	1.16	-69.97 -179.38
3549.3	84.3	83.8	83.9	71.11	78.12	80.29	76.66	71.33	63.96	54.36	39.87	14.91	-27.86 -91.81
3888.8	86.9	86.2	85.5	71.38	79.88	81.90	78.82	74.28	67.77	59.08	48.35	24.78	-11.18 -66.38
2815.2	88.8	88.0	86.2	70.33	78.36	82.21	83.78	78.57	70.48	62.11	50.64	31.46	-.26 -44.78
2333.4	89.4	89.1	86.3	69.28	77.09	81.71	81.39	78.02	72.38	64.04	52.63	34.19	4.38 -33.23
2121.3	91.0	89.8	86.3	68.44	75.93	80.45	81.44	78.88	74.49	67.51	57.64	41.51	15.23 -26.68
1988.1	91.0	89.8	85.9	67.89	74.83	79.47	80.97	78.63	75.25	68.81	59.47	44.35	19.86 -17.22
1831.2	91.4	89.8	85.8	67.41	73.93	78.68	80.38	78.86	76.24	70.16	61.21	46.88	23.78 -11.89
1782.1	91.8	90.0	85.7	67.44	73.38	78.78	80.28	80.15	78.43	70.91	61.98	48.18	24.17 -6.49
1656.1	91.9	90.7	85.8	68.12	73.79	78.67	80.25	80.78	77.88	71.10	62.74	49.60	28.33 -3.67
1598.9	91.9	90.1	86.0	67.84	73.47	79.05	80.12	79.99	77.34	71.88	63.64	50.76	30.26 -2.58
1592.9	91.9	89.9	85.6	68.26	73.61	77.44	79.40	79.76	77.68	72.21	64.19	51.58	31.53 -1.91
1573.1	91.9	89.9	85.6	67.77	73.53	77.85	79.86	79.77	77.78	71.90	63.97	51.54	31.83 -2.32
1565.7	91.9	89.8	85.2	66.69	72.69	77.68	79.78	79.66	76.91	71.78	63.91	51.59	32.07 -2.84
1588.8	91.8	89.8	85.1	66.99	72.91	77.91	79.87	79.89	76.98	71.94	64.11	51.82	32.26 -2.78
1564.7	91.9	89.9	84.8	65.83	71.86	76.82	78.82	79.74	76.81	71.79	63.91	51.69	32.07 -2.66
1573.1	91.9	89.9	85.2	67.28	73.02	76.95	78.94	79.87	77.06	72.03	64.18	51.98	32.48 -2.45
1593.9	91.1	89.1	84.6	64.64	70.14	75.75	78.01	79.68	76.45	71.33	63.38	50.69	30.85 -.63
1598.1	90.7	88.7	84.8	63.14	68.79	74.77	78.04	79.93	77.18	71.91	63.14	50.26	29.76 -1.84
1656.1	90.8	87.8	83.8	62.41	67.72	73.38	76.48	77.45	76.54	70.97	62.61	49.37	28.21 -3.59

RUN NUMBER	= 339.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -8.500
PRIMARY TEMPERATURE (R)	= 537.000
SECONDARY TEMPERATURE (R)	= 537.000
PRIMARY PRESSURE RATIO	= 1.322
AREA RATIO	= 4.856
VELOCITY RATIO	= 1.472
PRIMARY VELOCITY (FT/SEC)	= 705.061
MASS FLOW RATIO	= 4.985
PRIMARY MASS FLOW (LB/SEC)	= .317
THRUST (LBS)	= 72.500
ENVIRONMENTAL TEMPERATURE (R)	= 518.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.720
ENVIRONMENTAL HUMIDITY (PER CENT)	= 72.000
CALIBRATION FACTOR (MV TO DYN/SQ CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR NOZZLE JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	8.23308E+00	139.2
500	1.99421E-01	123.0
1000	1.04903E+00	130.2
2000	2.14049E+00	133.3
4000	1.07988E+00	132.7
8000	1.58355E+00	132.0
16000	9.90067E-01	129.9
31500	4.39678E-01	126.4

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.6
20000	163.6
40000	166.6
80000	169.6

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	102.6	107.7	107.0	103.0	98.0	94.1	88.9	116.2
20.0	102.1	108.9	109.9	105.1	100.4	95.3	90.1	113.8
25.0	100.8	108.5	110.3	107.3	101.9	96.1	91.3	116.2
30.0	99.6	107.5	110.2	107.0	103.3	98.1	93.3	114.8
35.0	97.2	106.2	109.6	107.6	104.0	99.0	95.0	113.8
40.0	94.8	103.9	108.2	107.9	105.8	100.7	96.1	113.1
45.0	92.9	101.2	105.9	106.9	107.2	101.7	97.6	111.9
50.0	91.3	98.6	103.4	105.2	106.7	101.6	97.9	110.6
55.0	90.2	97.1	101.9	103.9	106.0	100.8	98.0	109.8
60.0	90.6	96.3	101.2	103.2	103.8	101.2	97.8	109.1
65.0	90.8	96.8	100.6	102.5	102.8	100.7	97.4	108.6
70.0	90.4	95.8	100.5	101.9	102.3	100.2	97.4	108.8
75.0	90.1	96.1	99.9	101.0	101.5	100.2	98.1	107.8
80.0	89.8	95.1	99.3	101.0	101.4	100.4	97.6	107.8
85.0	89.7	94.9	98.9	100.3	100.8	99.8	97.8	106.6
90.0	88.4	93.8	98.3	100.1	101.1	99.8	98.9	106.8
95.0	87.2	92.8	97.3	99.3	100.7	99.7	98.8	106.8
100.0	86.4	92.3	97.8	99.8	100.8	100.0	98.8	106.3
105.0	85.8	91.9	97.1	99.2	100.1	100.1	98.8	106.2
110.0	84.8	91.4	96.8	99.0	100.4	99.9	98.5	105.8
115.0	84.0	90.9	96.2	98.4	100.2	99.9	98.2	105.9

MODEL THRUST = 72.500 FULL SCALE THRUST = 29000.000

F0	PNOD	OASPL	OCTAVE SOUND PRESSURE LEVELS								
			39.1	78.2	156.4	312.8	625.7	1251.3	2502.6	5005.2	10010.4
5705.6	99.31	99.0)	81.5	72.26	77.94	77.18	71.70	64.93	56.61	41.82	16.24
4385.9	95.41	95.2)	86.6	76.21	81.00	81.82	76.46	70.61	61.93	44.96	29.66
3549.3	93.41	93.1)	87.8	74.59	82.41	84.43	79.71	74.21	65.49	50.66	38.32
2880.9	93.01	93.2)	89.3	76.98	82.86	85.58	81.97	77.58	69.76	59.80	49.37
2418.2	92.31	91.7)	89.3	73.48	82.77	86.07	83.86	79.32	72.77	63.63	50.88
2082.6	93.01	93.0)	90.2	72.48	84.93	85.66	85.96	81.95	74.30	66.40	59.63
1771.3	94.21	93.2)	89.6	71.38	79.76	84.85	86.65	82.74	77.41	69.42	58.65
1	94.31	93.1)	88.9	70.40	77.68	82.49	86.88	82.98	78.28	71.89	59.93
2	94.61	93.3)	89.6	70.17	77.88	81.91	83.76	83.25	78.91	72.12	62.24
1	94.41	93.1)	89.6	70.74	78.23	81.27	83.88	82.86	78.97	72.91	63.28
1	94.61	92.9)	88.1	71.14	76.78	80.48	82.61	82.47	79.21	73.68	63.78
1	94.61	92.9)	87.9	71.14	76.78	80.48	82.61	82.47	79.21	73.68	63.78
1559.9	94.61	92.7)	87.7	71.22	76.63	80.89	81.88	81.98	79.65	74.53	65.89
1373.1	94.61	92.4)	87.8	71.10	76.97	80.58	82.87	82.81	79.78	74.33	65.68
1205.9	93.41	92.2)	87.1	70.16	75.63	79.98	81.33	81.16	79.67	75.85	65.19
1058.6	94.41	92.3)	87.3	69.93	76.93	79.91	81.29	81.98	79.58	73.74	65.11
1	93.61	91.9)	86.8	69.67	76.62	79.18	80.91	81.37	79.16	73.62	64.97
1	93.61	91.9)	86.8	69.67	76.62	79.18	80.91	81.37	79.16	73.62	64.97
1552.9	93.11	91.6)	86.3	68.65	76.44	78.12	80.89	81.68	79.23	73.88	64.73
1598.3	92.41	90.8)	85.8	65.78	72.29	77.36	79.69	80.58	78.81	72.96	63.58
1644.1	91.81	90.3)	85.0	65.21	70.36	76.17	78.78	80.11	78.62	71.73	62.51

RUN NUMBER	= 49A.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INCH)	= [illegible]
PRIMARY TEMPERATURE (R)	= [illegible]
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 2.220
AREA RATIO	= 9.700
VELOCITY RATIO	= .000
PRIMARY VELOCITY (FT/SEC)	= 1140.200
MASS FLOW RATIO	= 3.200
PRIMARY MASS FLOW (LN/SEC)	= .340
THRUST (LBS)	= 27.500
ENVIRONMENTAL TEMPERATURE (R)	= 519.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.720
ENVIRONMENTAL HUMIDITY (PER CENT)	= 67.000
CALIBRATION FACTOR (DY TO DY/SQ CM)	= .025
INSTRUMENTATION NOISE FLOOR (DB)	= 57.607

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.446672E+00	131.6
500	1.425186-02	111.5
1000	9.508078-02	119.9
2000	4.479698-01	126.5
4000	9.168728-01	129.6
8000	2.863008-01	124.6
16000	1.537908-01	121.9
31500	6.184638-02	117.9

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.8
20000	160.2
30000	161.8
80000	164.2

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND SOUND PRESSURE LEVELS 1000	2000	4000	8000	16000	31500	OVER ALL
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20.0	89.3	94.0	95.7	91.8	86.2	81.9	79.4	99.7
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30.0	86.5	93.0	97.0	94.7	89.2	84.7	81.6	100.7
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40.0	83.8	91.0	98.8	98.7	94.0	88.1	84.9	103.1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50.0	82.9	91.3	99.9	100.6	98.4	93.2	90.2	105.8
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60.0	80.5	91.0	99.8	99.8	98.6	95.6	92.1	105.8
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70.0	78.8	90.3	97.5	97.6	96.9	93.7	90.6	103.8
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80.0	78.8	90.8	95.7	95.2	94.3	91.2	88.2	101.1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90.0	77.9	89.2	95.0	93.3	93.2	90.0	87.7	100.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.0	77.1	88.9	94.7	92.5	91.2	88.3	85.6	99.8
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110.0	76.2	88.8	92.1	91.5	89.8	87.2	83.9	97.1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MODEL THRUST = 27.500 FULL SCALE THRUST = 20000.000

[illegible]	[illegible]	[illegible]	[illegible]	18.5	OCTAVE [illegible] 37.1	[illegible] 74.2	[illegible] 148.3	[illegible] 296.4	[illegible] 593.3	LEVELS [illegible] 1188.1	[illegible] 2374.1	[illegible] 4839.1	[illegible] 9278.2	[illegible] 14948.8
5795.4	48.2[illegible]	87.6[illegible]	78.8	63.58	64.43	68.38	64.68	57.19	50.58	41.79	25.67	-3.61	-55.56	-149.28
4348.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3559.9	78.6[illegible]	79.6[illegible]	78.1	66.67	71.73	74.67	71.48	65.82	59.17	53.91	41.98	22.89	-11.68	-69.89
3488.7	79.5[illegible]	78.6[illegible]	80.1	68.11	72.97	76.81	74.88	68.17	62.38	55.19	44.48	29.98	1.47	-63.98
2814.9	82.5[illegible]	81.2[illegible]	82.2	65.86	72.48	76.84	77.43	74.48	66.98	58.14	53.26	35.48	10.32	-50.53
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2171.3	89.1[illegible]	87.4[illegible]	86.7	69.58	74.46	81.48	82.61	76.36	72.27	64.98	58.18	45.04	25.87	-7.32
1944.1	91.6[illegible]	89.9[illegible]	88.2	68.18	76.48	83.18	81.74	81.26	74.26	70.26	62.91	51.83	31.58	.91
1831.2	93.5[illegible]	91.8[illegible]	89.1	69.81	78.41	84.36	84.61	82.81	76.13	72.74	65.66	54.33	35.87	7.87
1738.1	93.2[illegible]	91.8[illegible]	89.1	66.92	79.15	83.54	86.16	87.67	78.71	73.84	68.74	55.69	38.24	10.48
1644.1	93.2[illegible]	91.8[illegible]	89.8	65.18	79.55	84.18	87.16	88.61	79.91	74.88	69.75	56.75	39.77	13.45
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1552.9	91.7[illegible]	90.2[illegible]	87.2	66.05	79.44	81.83	84.58	86.91	78.61	72.87	68.18	58.12	41.81	15.13
1473.1	90.4[illegible]	88.9[illegible]	86.3	66.13	79.46	81.17	82.55	84.69	77.19	71.28	66.75	56.85	39.98	16.53
1384.7	89.4[illegible]	87.3[illegible]	85.8	63.97	75.68	81.11	80.98	84.46	76.25	71.11	66.78	56.88	39.18	16.98
1328.4	88.7[illegible]	87.1[illegible]	85.6	63.93	76.49	81.91	79.86	84.67	76.72	73.93	68.53	56.73	39.87	16.83
1269.9	88.3[illegible]	86.8[illegible]	84.1	63.73	73.91	81.16	79.65	83.66	76.87	74.18	69.49	57.86	38.19	14.93
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1092.3	86.2[illegible]	85.3[illegible]	83.3	61.42	71.24	79.16	77.44	81.67	74.67	71.45	67.58	56.93	38.43	9.45
1044.9	85.4[illegible]	83.8[illegible]	81.9	61.39	69.68	77.72	76.69	78.93	71.24	68.63	64.79	55.45	35.87	7.58
1003.1	83.8[illegible]	82.8[illegible]	80.6	60.83	68.47	76.09	73.96	76.31	69.07	66.11	62.18	53.08	34.08	6.58

RUN NUMBER	=	337.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INCH)	=	-4.500
PRIMARY TEMPERATURE (R)	=	940.000
SECONDARY TEMPERATURE (R)	=	583.000
PRIMARY PRESSURE RATIO	=	1.508
AREA RATIO	=	9.728
VELOCITY RATIO	=	.965
PRIMARY VELOCITY (FT/SEC)	=	904.047
MASS FLOW RATIO	=	.0335
PRIMARY PASS FLOW (LB/SEC)	=	.350
THRUST (LBS)	=	84.000
ENVIRONMENTAL TEMPERATURE (R)	=	519.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.728
ENVIRONMENTAL HUMIDITY (PER CENT)	=	67.000
CALIBRATION FACTOR (PV TO H/SQ CM)	=	.1145
INSTRUMENTATION NOISE FLOOR (DB)	=	82.585

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR SINGLE JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.07498E+00	134.9
500	1.61258E-01	122.1
1000	9.20978E-01	129.6
2000	8.19817E-01	129.1
4000	6.94581E-01	128.4
8000	5.08287E-01	127.1
16000	2.50353E-01	124.1
31500	1.04932E-01	120.2

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	155.0
20000	158.0
40000	161.7
80000	164.7

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
10.0	101.6	104.4	101.3	96.9	90.3	84.4	81.4	107.0
20.0	101.1	105.6	103.1	97.5	92.6	87.6	83.5	108.9
25.0	99.8	104.2	101.8	96.2	91.2	87.0	83.2	107.9
30.0	98.5	103.6	100.3	100.6	96.2	91.3	86.8	108.7
35.0	96.7	102.0	101.6	97.4	93.8	88.7	84.5	108.5
40.0	96.6	100.8	103.3	101.9	98.6	94.2	89.6	107.9
45.0	96.7	98.7	101.5	101.2	99.0	94.9	90.3	107.6
50.0	91.2	97.1	101.0	101.2	99.5	95.0	91.3	105.7
55.0	92.2	95.7	100.0	100.2	99.2	94.2	92.2	105.9
60.0	89.2	94.9	99.4	99.0	98.3	94.4	92.2	105.7
65.0	88.6	94.8	98.7	99.2	98.0	94.2	92.2	105.8
70.0	89.5	94.4	98.8	99.0	98.3	95.6	92.0	106.8
75.0	90.7	93.7	97.9	98.2	97.8	95.1	91.3	106.1
80.0	88.6	93.8	97.2	98.2	97.7	95.1	91.3	106.1
85.0	87.6	92.6	96.6	97.1	97.1	94.7	90.7	105.6
90.0	87.2	92.5	96.3	97.1	96.8	94.2	90.9	105.1
95.0	86.0	91.7	95.8	96.9	96.9	93.9	90.5	104.8
100.0	86.4	91.2	95.6	96.1	96.0	93.6	90.1	104.2
105.0	85.9	90.8	95.2	95.9	95.8	93.4	90.0	104.0
110.0	86.4	89.9	94.9	95.0	95.5	92.9	89.0	103.6
115.0	85.9	89.9	94.5	94.9	95.0	92.7	89.7	103.8

MODEL THRUST = 84.000 FULL SCALE THRUST = 20000.000

			OCTAVE 32.0	64.0	128.0	256.2	BAND 510.5	SOUND 1024.0	PRESSURE 2041.6	LEVELS 4082.9	8188.9	16201.9	32403.7
8785.6	72.8	72.7	70.4	70.38	73.37	70.68	66.28	56.78	47.31	31.68	6.97	-41.03	-110.95	-230.15
4385.7	77.8	77.6	80.1	72.64	76.99	69.28	68.18	61.78	52.46	40.65	19.78	-18.12	-79.92	-166.98
3549.3	81.4	81.1	82.8	72.38	78.28	77.27	71.67	65.18	57.88	44.83	23.48	-.18	-68.73	-121.67
3888.4	83.8	83.6	83.2	73.84	78.32	78.42	74.58	69.18	61.48	51.55	30.45	10.98	-38.58	-92.78
2835.2	86.8	85.5	84.1	72.71	78.56	79.36	75.49	73.82	65.29	55.63	42.38	19.78	-10.85	-71.38
2833.4	88.4	86.8	84.4	74.44	80.17	80.28	78.08	76.34	68.77	58.98	45.97	23.18	-7.16	-69.12
2121.3	88.2	87.4	88.5	78.48	74.02	80.43	78.84	75.49	69.83	61.33	49.78	30.87	.59	-44.21
1954.1	89.0	88.8	86.8	80.78	78.49	78.31	78.18	76.48	71.49	63.31	52.39	34.73	6.55	-34.83
1831.9	89.2	88.1	86.3	84.59	78.91	78.47	78.95	77.28	72.78	65.16	54.76	38.66	11.58	-27.59
1732.1	89.2	88.8	86.5	84.97	79.65	79.66	79.48	77.98	73.53	66.07	55.97	41.88	14.73	-22.68
1659.1	89.8	89.4	88.6	84.53	80.74	80.48	79.88	78.66	73.78	66.73	57.01	41.82	17.36	-19.28
1592.9	89.7	89.6	88.1	85.18	82.17	81.57	80.57	77.58	73.41	67.18	57.91	43.28	23.31	-13.28
1523.1	89.7	88.3	88.4	85.88	82.61	82.15	80.88	77.98	73.88	66.98	57.7	43.97	28.78	-10.22
1464.9	89.8	87.8	88.5	86.36	83.31	82.65	81.68	78.37	74.37	66.83	57.83	43.55	31.19	-11.66
1388.4	89.8	87.8	88.2	87.48	83.38	83.48	82.53	78.79	74.89	66.98	57.83	43.88	31.11	-11.83
1348.7	89.8	87.3	88.5	87.68	83.66	84.14	82.78	79.38	75.25	66.85	57.17	43.98	33.61	-12.18
1273.1	87.8	86.8	88.4	87.88	84.08	84.38	83.18	79.88	75.78	66.98	57.18	43.88	33.88	-12.38
1232.0	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
1184.1	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
1139.6	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
1098.0	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
1059.1	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
1022.6	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
988.2	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
955.8	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
925.1	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
896.0	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
868.4	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
842.2	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
817.3	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
793.6	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
771.1	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
749.8	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
729.6	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
710.5	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
692.5	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
675.5	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
659.5	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
644.5	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
630.4	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
617.3	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
605.1	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
593.8	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
583.4	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
573.9	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
565.2	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
557.4	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
550.4	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
544.3	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
539.1	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
534.8	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
531.4	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
528.9	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
527.3	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68
526.6	87.8	86.2	88.4	88.18	84.38	84.88	83.48	80.18	76.18	67.18	57.38	43.88	34.18	-12.68

RUN NUMBER	= 33M.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= -M.500
PRIMARY TEMPERATURE (R)	= 537.000
SECONDARY TEMPERATURE (R)	= 53M.000
PRIMARY PRESSURE RATIO	= 1.322
AREA RATIO	= 0.7M
VELOCITY RATIO	= 1.474
PRIMARY VELOCITY (FT/SEC)	= 705.041
MASS FLOW RATIO	= 0.051
PRIMARY PASS FLOW (LB/SEC)	= .31M
THRUST (LBS)	= 119.000
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.720
ENVIRONMENTAL HUMIDITY (PER CENT)	= 83.000
CALIBRATION FACTOR (DB TO DB/SQ CM)	= .0M9
INSTRUMENTATION NOISE FLOOR (DB)	= 48.587

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	1.09684E-01	140.4	THRUST	POWER LEVEL(DB)
500	5.09567E-01	127.1	10000	159.6
1000	1.97271E+00	133.0	20000	162.7
2000	2.05629E+00	134.6	40000	165.7
4000	2.39073E+00	133.7	80000	168.7
8000	1.85533E+00	132.7		
16000	1.01300E+00	130.1		
31500	4.12008E-01	126.1		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND SOUND PRESSURE LEVELS 1000	2000	4000	8000	16000	31500	OVER ALL
15.0	100.8	110.2	107.9	102.1	94.3	91.6	87.3	110.7
20.0	100.3	110.0	110.0	109.1	99.2	95.6	89.5	114.8
25.0	105.0	111.3	110.9	109.0	101.0	98.9	91.5	115.3
30.0	103.9	110.6	111.0	109.8	102.9	99.3	93.6	115.3
35.0	102.9	108.9	110.9	109.1	104.3	99.7	93.1	115.0
40.0	100.2	106.8	109.5	108.3	105.5	101.3	94.6	114.5
45.0	97.9	104.2	107.6	107.0	104.9	102.1	97.7	113.2
50.0	95.9	102.1	105.1	105.6	105.6	102.3	98.3	112.2
55.0	94.9	100.9	103.9	104.9	105.2	102.1	98.2	111.3
60.0	94.0	99.6	103.6	104.6	104.0	101.7	97.9	110.3
65.0	93.8	99.0	103.4	104.5	103.9	101.5	97.9	109.9
70.0	93.8	98.3	103.2	104.3	103.2	101.1	97.6	109.4
75.0	93.9	97.9	103.0	104.1	102.9	100.8	97.4	109.0
80.0	93.6	97.6	103.0	103.9	102.6	100.6	97.2	108.8
85.0	93.6	97.3	103.0	103.7	102.4	100.3	96.9	108.8
90.0	93.6	96.8	103.0	103.7	102.1	100.3	96.6	108.8
95.0	93.8	96.8	103.0	103.8	102.0	100.3	96.4	108.8
100.0	93.8	95.6	99.3	100.6	101.2	99.6	95.9	107.1
105.0	89.0	93.0	99.0	100.4	101.2	99.5	95.9	106.9
110.0	89.1	94.0	98.7	100.4	101.4	99.5	95.9	106.8
115.0	89.0	93.8	98.8	100.4	101.3	99.5	96.0	106.9

MODEL THRUST = 119.000 FULL SCALE THRUST = 28000.000

LV	PHOTO	DIGITAL	OCTAVE 30.6	77.1	154.3	309.5	617.1	SOUND PRESSURE LEVELS 1234.2	2520.8	4859.6	9882.8	19780.1	39580.1
8799.6	74.8	78.7	80.9	76.52	77.60	75.88	64.28	59.97	49.18	31.18	.00	-52.46	-139.66	-269.68
8386.7	83.9	83.8	84.1	80.27	80.47	79.45	72.04	68.18	58.81	41.56	17.59	-22.71	-99.72	-197.28
3546.9	87.8	86.8	88.8	77.32	83.68	82.81	76.55	70.48	61.66	44.77	20.31	-0.48	-59.28	-136.73
3880.8	89.9	89.3	88.2	77.10	83.43	86.43	79.31	74.07	64.23	46.62	23.27	0.35	-34.03	-105.71
7819.2	91.4	91.1	89.8	74.87	83.36	86.49	81.41	77.10	69.56	53.44	33.38	17.78	-23.06	-48.68
8333.6	92.1	92.0	89.1	73.96	82.84	86.11	81.54	77.61	72.52	57.99	39.33	24.17	-11.56	-40.89
8121.3	93.4	92.8	88.8	73.49	82.42	83.78	83.50	83.71	76.65	64.34	52.13	38.88	-8.67	-31.81
1958.1	93.6	92.9	88.9	72.98	79.83	82.88	83.71	81.72	79.44	67.38	54.43	39.31	3.78	-41.82
1831.2	93.6	92.8	87.8	72.87	78.92	81.42	82.42	81.87	79.66	68.72	56.56	37.76	8.26	-30.22
1732.1	93.1	92.8	87.6	72.62	78.68	81.48	81.97	82.98	78.45	69.46	57.66	39.92	11.59	-20.76
1635.1	92.3	92.3	87.4	71.91	77.66	81.24	82.43	82.58	77.68	69.59	59.08	42.18	10.88	-20.26
1594.5	92.2	92.2	87.1	72.02	77.40	80.82	82.04	82.38	77.68	69.78	59.18	42.78	10.28	-21.12
1552.9	92.1	92.0	86.9	71.98	76.91	80.47	81.64	82.08	77.68	70.05	59.63	43.81	12.15	-19.73
1527.1	92.1	92.0	86.8	71.71	76.65	80.07	81.39	82.02	77.78	70.11	59.97	43.92	12.78	-19.16
1504.9	92.1	91.9	86.5	71.15	76.31	79.71	80.96	81.63	77.78	69.97	59.77	43.76	13.09	-19.08
1488.6	92.1	91.9	86.2	70.87	76.05	79.51	80.78	81.49	77.69	69.91	59.87	43.81	13.07	-19.07
1469.9	92.1	91.8	85.9	70.74	75.91	79.42	80.66	81.36	77.68	69.88	59.89	43.88	13.21	-19.26
1453.1	92.1	91.8	85.8	70.69	75.84	79.34	80.58	81.28	77.68	69.86	59.92	43.92	13.28	-19.32
1442.2	92.1	91.8	85.7	70.66	75.80	79.30	80.54	81.24	77.68	69.85	59.94	43.95	13.32	-19.36
1432.8	92.1	91.8	85.7	70.64	75.78	79.27	80.51	81.21	77.68	69.84	59.95	43.97	13.34	-19.38
1427.1	92.1	91.8	85.6	70.63	75.76	79.25	80.49	81.19	77.68	69.84	59.96	43.98	13.36	-19.39

RUN NUMBER	= 390.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= -6.000
PRIMARY TEMPERATURE (R)	= 535.000
SECONDARY TEMPERATURE (R)	= 534.000
PRIMARY PRESSURE RATIO	= 3.000
AREA RATIO	= 1.000
VELOCITY RATIO	= .370
PRIMARY VELOCITY (FT/SEC)	= 1329.742
MASS FLOW RATIO	= .461
PRIMARY MASS FLOW (LM/SEC)	= .492
THRUST (LBS)	= 17.000
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.619
ENVIRONMENTAL HUMIDITY (PER CENT)	= 73.000
CALIBRATION FACTOR (MV TO DYNES/CM)	= .040
INSTRUMENTATION NOISE FLOOR (DB)	= 63.559

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.29339E+00	137.2
500	1.88631E-02	112.8
1000	1.21232E-01	120.8
2000	8.53402E-01	128.2
4000	2.79485E+00	133.5
8000	1.34407E+00	131.9
16000	3.69179E-01	125.7
31500	1.78494E-01	122.5

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	166.9
20000	167.9
40000	171.0
80000	174.0

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND SOUND PRESSURE LEVELS 1000	2000	4000	8000	16000	31500	OVER ALL
10.0	90.0	99.0	100.0	100.0	99.0	96.0	86.0	109.0
20.0	86.7	99.6	104.0	103.8	99.2	93.8	88.7	110.4
25.0	90.1	98.3	103.0	104.4	100.9	96.5	89.5	110.7
30.0	89.4	97.6	103.9	104.1	101.8	98.1	91.4	111.6
35.0	87.6	96.9	103.0	103.2	100.8	97.8	92.9	110.8
40.0	86.7	96.7	102.3	102.8	100.0	96.9	91.7	110.5
45.0	84.0	95.0	101.4	100.8	98.7	95.0	91.4	109.2
50.5	83.8	91.7	100.9	100.8	100.8	100.2	93.9	111.2
55.0	82.0	89.9	99.7	100.7	100.7	100.2	95.2	110.8
60.0	81.0	88.5	98.6	100.7	100.9	100.5	95.9	110.6
65.0	81.0	88.0	97.9	100.9	100.9	99.7	94.8	110.8
70.0	79.8	87.8	98.5	100.5	100.1	98.8	94.4	110.7
75.0	78.0	87.0	97.8	100.7	100.3	98.3	94.1	110.7
80.0	76.3	86.2	96.8	101.3	101.3	97.5	93.5	110.9
85.0	77.0	85.5	95.8	100.8	101.0	97.7	93.2	110.6
90.0	77.2	85.9	95.6	99.7	100.3	96.6	92.7	110.6
95.0	76.6	84.9	93.8	98.4	99.0	96.2	92.9	109.8
100.0	75.9	83.1	92.1	96.5	98.0	95.0	91.7	109.6
105.0	75.2	81.9	90.9	95.8	96.9	93.1	91.1	108.9
110.0	76.6	80.5	88.5	96.7	97.6	93.6	91.7	109.1
115.0	74.6	79.0	87.2	95.9	96.9	93.9	90.7	109.0

MODEL THRUST = 17.000 FULL SCALE THRUST = 20000.000

			OCTAVE BAND SOUND PRESSURE LEVELS								
			10.6	21.2	42.5	110.6	233.2	466.5	918.4	1836.7	3646.3	7348.7	14677.4
8793.6	81.91	82.81	83.8	84.32	75.16	76.27	77.49	73.03	69.23	55.54	42.52	18.75	-86.76	-86.67
9389.9	89.11	89.91	88.9	87.97	87.48	87.18	86.88	78.19	81.92	81.36	37.93	-.88	-85.84	
3519.7	89.11	88.81	88.7	78.32	79.54	83.48	84.88	73.21	69.53	58.39	48.84	13.18	-87.84	
3088.8	82.21	80.91	81.1	78.78	78.72	80.58	81.65	76.68	69.91	61.32	47.54	22.87	-19.91	
2815.2	84.51	82.91	82.8	78.54	78.46	80.11	80.97	76.46	71.81	60.36	51.61	20.80	-19.33	
2533.1	85.71	84.21	84.0	80.04	80.04	81.21	81.81	78.09	72.76	63.06	54.29	24.24	-2.87	
2121.3	86.41	86.31	85.7	84.81	83.46	84.16	83.47	84.67	82.38	76.13	69.82	57.62	41.28	11.45
1954.1	86.21	87.41	86.2	86.28	87.13	86.39	83.38	81.10	86.78	76.58	76.87	69.84	53.96	17.47
1831.2	86.41	87.81	85.9	88.48	85.92	85.78	82.62	81.46	84.37	76.17	72.81	62.65	46.81	21.65
1737.1	86.71	87.61	85.6	87.84	86.97	85.11	82.18	80.88	84.29	76.49	73.65	64.25	49.20	24.29
1655.1	86.41	87.81	85.6	88.48	86.25	85.78	81.98	80.88	84.61	76.17	73.11	64.29	49.28	27.52
1580.4	86.21	87.61	85.9	87.84	86.39	85.78	82.18	80.88	84.29	76.49	73.65	64.25	49.20	24.29
1512.6	86.21	85.71	83.9	86.28	86.39	84.97	84.97	84.26	79.54	73.49	65.23	51.61	30.68	
1451.1	87.81	85.81	83.2	83.96	83.46	82.69	84.48	84.48	79.53	73.78	65.76	51.73	28.55	
1394.7	87.71	86.81	82.8	83.28	83.47	84.26	84.88	84.38	79.23	73.62	65.72	51.83	28.68	
1340.4	87.81	86.81	82.1	84.87	83.36	84.58	84.78	84.67	79.68	73.81	66.66	51.28	30.36	
1285.9	86.21	87.71	81.6	86.32	83.15	84.38	84.38	84.38	79.38	73.19	65.66	51.68	30.43	
1232.1	86.51	87.71	81.3	86.28	83.15	84.38	84.38	84.38	79.38	73.19	65.66	51.68	30.43	
1179.2	86.41	87.81	81.2	86.28	83.15	84.38	84.38	84.38	79.38	73.19	65.66	51.68	30.43	
1127.2	86.41	87.81	81.2	86.28	83.15	84.38	84.38	84.38	79.38	73.19	65.66	51.68	30.43	
1076.1	86.41	87.81	81.2	86.28	83.15	84.38	84.38	84.38	79.38	73.19	65.66	51.68	30.43	
1025.9	86.41	87.81	81.2	86.28	83.15	84.38	84.38	84.38	79.38	73.19	65.66	51.68	30.43	
976.6	86.41	87.81	81.2	86.28	83.15	84.38	84.38	84.38	79.38	73.19	65.66	51.68	30.43	
928.2	86.41	87.81	81.2	86.28	83.15	84.38	84.38	84.38	79.38	73.19	65.66	51.68	30.43	
880.7	86.41	87.81	81.2	86.28	83.15	84.38	84.38	84.38	79.38	73.19	65.66	51.68	30.43	
834.1	86.41	87.81	81.2	86.28	83.15	84.38	84.38	84.38	79.38	73.19	65.66	51.68	30.43	
788.4	86.41	87.81	81.2	86.28	83.15	84.38	84.38	84.38	79.38	73.19	65.66	51.68	30.43	
743.5	86.41	87.81	81.2	86.28	83.15	84.38	84.38	84.38	79.38	73.19	65.66	51.68	30.43	
699.6	86.41	87.81	81.2	86.28	83.15	84.38	84.38	84.38	79.38	73.19	65.66	51.68	30.43	

RUN NUMBER	= 309.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.500
PRIMARY TEMPERATURE (R)	= 960.000
SECONDARY TEMPERATURE (R)	= 533.000
PRIMARY PRESSURE RATIO	= 2.004
AREA RATIO	= 1.000
VELOCITY RATIO	= .861
PRIMARY VELOCITY (FT/SEC)	= 1113.544
MASS FLOW RATIO	= .995
PRIMARY MASS FLOW (LB/SEC)	= .427
THRUST (LBS)	= 26.000
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.810
ENVIRONMENTAL HUMIDITY (PER CENT)	= 73.000
CALIBRATION FACTOR (DB/ST.CM)	= .018
INSTRUMENTATION NOISE FLOOR (DB)	= 63.150

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	3.45203E+00	135.4	THRUST	POWER LEVEL(DB)
			10000	161.2
500	3.41403E-02	115.3	20000	164.2
1000	2.45382E-01	123.9	40000	167.3
2000	8.45386E-01	129.3	80000	170.3
4000	1.24437E+01	129.7		
8000	7.02+58E-01	128.5		
16000	[illegible]	129.0		
31500	2.44236E-01	123.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND SOUND PRESSURE LEVELS 1000	2000	4000	8000	16000	31500	OVER ALL
[illegible]								
20.0	93.8	103.0	107.6	100.9	101.3	97.6	92.7	111.2
[illegible]								
30.0	91.4	100.7	106.5	103.4	101.0	98.1	94.0	110.7
[illegible]								
40.0	87.6	99.6	102.7	102.9	102.5	99.4	95.5	108.9
[illegible]								
50.0	84.8	93.2	99.4	102.0	101.2	99.1	95.6	107.2
[illegible]								
60.0	82.3	91.1	97.1	99.6	99.4	97.2	95.6	105.3
[illegible]								
70.0	82.8	89.6	95.4	98.2	98.4	97.2	96.7	104.2
[illegible]								
80.0	81.8	88.6	93.7	96.9	97.6	96.6	96.1	103.1
[illegible]								
90.0	80.6	87.3	92.7	95.6	96.1	95.3	95.8	102.8
[illegible]								
100.0	79.8	86.8	91.8	94.9	95.6	95.5	95.9	101.9
[illegible]								
110.0	77.7	83.6	89.7	93.7	94.6	94.1	92.2	100.2
[illegible]								

MODEL THRUST = 24.000 FULL SCALE THRUST = 20000.000

LV	PWDL	OASPL	OCTAVE 10.0	36.1	72.1	144.2	288.4	576.9	1135.7	2271.5	4540.9	9080.9	18027.8
[illegible]													
4705.4	82.91	82.21	90.5	68.69	77.66	81.12	77.69	77.62	69.19	54.65	34.93	19.35	-49.48 -123.42
4305.7	87.21	84.61	89.6	75.58	79.43	84.09	81.15	76.96	71.02	69.38	47.68	27.33	-11.89 -99.58
3540.3	89.51	90.51	89.8	71.56	83.27	85.56	83.12	78.69	73.03	65.17	56.98	35.31	6.82 -48.46
3886.4	91.41	88.31	90.2	71.29	85.46	86.29	85.87	81.46	78.19	69.13	58.59	43.33	15.55 -28.96
2815.9	93.31	91.41	89.7	71.46	88.44	89.43	85.54	89.83	79.31	71.87	67.73	44.19	23.61 -15.56
2332.4	94.01	92.01	90.2	84.83	89.43	89.79	87.95	84.62	77.09	69.19	57.67	38.23	-5.98
2121.3	94.61	92.51	90.3	69.15	91.43	89.43	85.46	84.19	80.37	74.52	66.66	54.56	33.99 1.68
1958.1	95.01	92.81	91.0	64.02	78.75	91.98	85.46	84.39	81.46	76.17	69.83	57.19	38.83 -7.95
1831.7	95.31	92.81	90.1	67.72	76.83	82.45	85.03	84.31	81.69	77.81	70.48	59.31	41.28 12.69
1732.1	95.41	92.71	89.5	67.42	73.78	81.28	84.15	83.87	81.46	77.65	70.69	60.45	43.15 15.98
1654.1	95.41	92.61	89.3	68.83	75.32	81.61	84.45	83.55	81.45	77.38	70.66	60.55	43.69 19.48
1594.2	95.21	92.41	89.2	69.22	77.72	82.21	84.29	83.29	81.29	77.19	70.53	60.55	43.89 19.71
1552.4	95.01	91.91	89.2	67.69	71.61	79.84	83.87	82.95	81.03	77.15	71.36	61.44	45.87 21.
1523.1	94.71	91.21	89.4	68.78	74.33	79.61	82.59	82.78	81.33	77.58	71.15	61.43	45.84 21.
1504.7	93.81	90.41	87.8	68.58	73.46	78.96	81.62	82.03	80.89	77.67	71.11	61.47	45.88 22.72
1496.4	93.61	90.31	87.6	68.53	73.12	79.57	81.91	81.71	80.79	77.32	71.03	61.48	46.03 23.24
1495.7	93.71	90.91	87.1	65.24	72.47	77.46	81.17	81.43	80.16	77.46	70.75	61.11	45.64 21.46
1501.1	93.91	90.61	86.9	66.92	71.66	77.75	80.94	81.38	80.35	77.54	71.02	61.27	45.72 21.91
1512.0	94.41	91.21	87.2	66.65	74.43	78.63	81.49	81.55	80.72	78.31	68.45	61.65	28.15
1530.3	95.01	92.01	85.8	69.03	67.13	79.96	79.98	80.68	80.44	78.04	69.68	62.26	37.19
1558.1	95.81	92.91	86.6	62.68	67.54	73.98	77.44	78.78	79.83	79.32	68.69	58.58	41.72 19.43

RUN NUMBER		
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	=	141.00 (763.00)
PRIMARY TEMPERATURE (R)	=	[illegible]
SECONDARY TEMPERATURE (R)	=	[illegible]
PRIMARY PRESSURE RATIO	=	[illegible]
AREA RATIO	=	1.691
VELOCITY RATIO	=	1.000
PRIMARY VELOCITY (FT/SEC)	=	1.011
MASS FLOW RATIO	=	1024.210
PRIMARY MASS FLOW (LB/SEC)	=	[illegible]
THRUST (LBS)	=	.423
ENVIRONMENTAL TEMPERATURE (R)	=	30.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	521.000
ENVIRONMENTAL HUMIDITY (PER CENT)	=	29.810
CALIBRATION FACTOR (DY TO DYNE CM)	=	73.000
INSTRUMENTATION NOISE FLOOR (DB)	=	.954
	=	46.500

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR NICKEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	4.696388E+00	136.7	THRUST	POWER LEVEL(DB)
500	1.544449E-01	121.9	10000	161.7
1000	8.999938E-01	129.5	20000	165.0
2000	1.886818E+00	130.8	40000	168.0
4000	1.888883E+00	130.8	60000	171.0
8000	8.757952E-01	129.4		
16000	2.232425E-01	123.5		
31500	3.445648E-01	125.4		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE	BAND	SOUND	PRESSURE	LEVELS	31500	OVER ALL
20.0	107.9	104.3	108.2	105.8	101.1	97.0	92.3	113.4
22.0	107.9	104.3	108.2	105.8	101.1	97.0	92.3	113.4
24.0	92.0	101.3	107.0	104.1	102.9	99.4	93.1	111.5
26.0	92.0	101.3	107.0	104.1	102.9	99.4	93.1	111.5
28.0	89.0	97.6	103.6	104.2	103.1	99.7	95.9	109.9
30.0	89.0	97.6	103.6	104.2	103.1	99.7	95.9	109.9
32.0	85.3	93.6	99.2	101.0	101.0	96.6	96.4	107.4
34.0	85.3	93.6	99.2	101.0	101.0	96.6	96.4	107.4
36.0	83.3	91.4	97.2	99.6	100.3	99.5	97.4	107.0
38.0	83.3	91.4	97.2	99.6	100.3	99.5	97.4	107.0
40.0	83.0	90.9	96.8	98.7	99.2	98.0	97.3	106.1
42.0	83.0	90.9	96.8	98.7	99.2	98.0	97.3	106.1
44.0	82.0	89.8	95.8	98.0	97.9	97.0	96.0	105.2
46.0	82.0	89.8	95.8	98.0	97.9	97.0	96.0	105.2
48.0	81.5	89.3	95.4	97.6	97.4	96.5	95.7	104.9
50.0	81.5	89.3	95.4	97.6	97.4	96.5	95.7	104.9
105.0	80.4	88.0	93.8	95.1	95.1	96.1	95.1	102.8
110.0	79.1	85.4	91.3	93.2	91.2	90.0	92.8	102.7
115.0	79.1	85.4	91.3	93.2	91.2	90.0	92.8	102.7

MODEL THRUST = 30.000 FULL SCALE THRUST = 20000.000

			OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
			19.9	39.7	79.5	159.0	319.0	639.7	1278.0	2557.0	5121.7	10242.0	20484.0
1795.4	83.5	83.1	84.9	87.78	77.92	81.66	78.39	72.46	64.78	54.88	37.93	5.64	-48.15
1795.4	83.5	83.1	84.9	87.78	77.92	81.66	78.39	72.46	64.78	54.88	37.93	5.64	-48.15
1849.3	89.9	89.3	90.4	93.98	84.24	86.59	83.47	75.99	68.98	58.97	47.01	23.48	-17.87
1849.3	89.9	89.3	90.4	93.98	84.24	86.59	83.47	75.99	68.98	58.97	47.01	23.48	-17.87
1908.4	92.0	91.6	92.4	91.79	82.47	84.35	83.47	81.03	73.49	59.44	53.53	23.75	-.29
1908.4	92.0	91.6	92.4	91.79	82.47	84.35	83.47	81.03	73.49	59.44	53.53	23.75	-.29
1969.2	92.0	92.0	93.0	98.97	86.46	85.89	85.42	82.48	78.15	70.47	61.71	46.35	29.48
1969.2	92.0	92.0	93.0	98.97	86.46	85.89	85.42	82.48	78.15	70.47	61.71	46.35	29.48
2121.3	94.7	92.8	94.2	99.36	97.52	93.23	85.44	84.51	80.83	70.89	69.66	53.63	32.88
2121.3	94.7	92.8	94.2	99.36	97.52	93.23	85.44	84.51	80.83	70.89	69.66	53.63	32.88
2031.7	95.5	93.8	95.9	98.12	95.47	91.49	86.21	86.58	82.45	77.76	70.66	59.78	39.77
2031.7	95.5	93.8	95.9	98.12	95.47	91.49	86.21	86.58	82.45	77.76	70.66	59.78	39.77
2059.1	96.0	93.8	95.9	98.68	97.17	92.55	87.44	87.46	82.58	78.36	71.21	63.09	41.09
2059.1	96.0	93.8	95.9	98.68	97.17	92.55	87.44	87.46	82.58	78.36	71.21	63.09	41.09
2092.9	96.0	93.8	95.9	99.16	96.58	92.46	87.21	87.49	82.58	78.68	71.65	63.56	40.56
2092.9	96.0	93.8	95.9	99.16	96.58	92.46	87.21	87.49	82.58	78.68	71.65	63.56	40.56
2129.1	96.3	93.9	95.9	97.98	96.44	92.50	87.50	87.49	82.58	78.68	71.74	64.15	40.56
2129.1	96.3	93.9	95.9	97.98	96.44	92.50	87.50	87.49	82.58	78.68	71.74	64.15	40.56
2168.7	96.8	94.4	96.4	97.32	96.21	92.43	87.49	87.49	82.58	78.68	71.82	64.23	40.56
2168.7	96.8	94.4	96.4	97.32	96.21	92.43	87.49	87.49	82.58	78.68	71.82	64.23	40.56
2211.0	97.4	94.9	96.9	97.15	96.04	92.41	87.49	87.49	82.58	78.68	71.83	64.24	40.56
2211.0	97.4	94.9	96.9	97.15	96.04	92.41	87.49	87.49	82.58	78.68	71.83	64.24	40.56
2255.9	98.0	95.5	97.5	97.20	96.09	92.41	87.49	87.49	82.58	78.68	71.83	64.24	40.56
2255.9	98.0	95.5	97.5	97.20	96.09	92.41	87.49	87.49	82.58	78.68	71.83	64.24	40.56
2302.9	98.6	96.1	98.1	97.26	96.15	92.41	87.49	87.49	82.58	78.68	71.83	64.24	40.56
2302.9	98.6	96.1	98.1	97.26	96.15	92.41	87.49	87.49	82.58	78.68	71.83	64.24	40.56
2352.0	99.2	96.7	98.7	97.32	96.21	92.43	87.49	87.49	82.58	78.68	71.82	64.23	40.56
2352.0	99.2	96.7	98.7	97.32	96.21	92.43	87.49	87.49	82.58	78.68	71.82	64.23	40.56
2402.9	99.8	97.3	99.3	97.38	96.27	92.46	87.49	87.49	82.58	78.68	71.81	64.22	40.56
2402.9	99.8	97.3	99.3	97.38	96.27	92.46	87.49	87.49	82.58	78.68	71.81	64.22	40.56
2455.7	100.4	97.9	99.9	97.44	96.33	92.50	87.50	87.49	82.58	78.68	71.74	64.15	40.56
2455.7	100.4	97.9	99.9	97.44	96.33	92.50	87.50	87.49	82.58	78.68	71.74	64.15	40.56
2510.4	101.0	98.5	100.5	97.50	96.39	92.56	87.56	87.49	82.58	78.68	71.68	64.09	40.56
2510.4	101.0	98.5	100.5	97.50	96.39	92.56	87.56	87.49	82.58	78.68	71.68	64.09	40.56
2567.1	101.6	99.1	101.1	97.56	96.45	92.62	87.62	87.49	82.58	78.68	71.62	64.03	40.56
2567.1	101.6	99.1	101.1	97.56	96.45	92.62	87.62	87.49	82.58	78.68	71.62	64.03	40.56
2625.9	102.2	99.7	101.7	97.62	96.51	92.68	87.68	87.49	82.58	78.68	71.56	63.97	40.56
2625.9	102.2	99.7	101.7	97.62	96.51	92.68	87.68	87.49	82.58	78.68	71.56	63.97	40.56
2687.0	102.8	100.3	102.3	97.68	96.57	92.74	87.74	87.49	82.58	78.68	71.50	63.91	40.56
2687.0	102.8	100.3	102.3	97.68	96.57	92.74	87.74	87.49	82.58	78.68	71.50	63.91	40.56

Reproduced from best available copy.

RUN NUMBER	[illegible]
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INCH)	[illegible]
PRIMARY TEMPERATURE (R)	[illegible]
SECONDARY TEMPERATURE (R)	511.000
PRIMARY PRESSURE RATIO	3.009
AREA RATIO	2.007
VELOCITY RATIO	.578
PRIMARY VELOCITY (FT/SEC)	[illegible]
MASS FLOW RATIO	.787
PRIMARY MASS FLOW (LBM/SEC)	.627
THRUST (LBS)	18.503
ENVIRONMENTAL TEMPERATURE (R)	522.480
ENVIRONMENTAL PRESSURE (IN.HG)	29.810
ENVIRONMENTAL HUMIDITY (PER CENT)	69.000
CALIBRATION FACTOR (DB/VOLT)	.858
INSTRUMENTATION NOISE FLOOR (DB)	66.500

ACOUSTIC POWER AND SOUND POWER LEVEL PER NOZZLE JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	6.330235E+00	138.0	THRUST	POWER LEVEL(DB)
500	1.991805E-02	112.0	10000	165.3
1000	[illegible]	128.0	20000	168.4
2000	7.504155E-01	128.8	40000	171.4
4000	[illegible]	130.6	80000	174.4
8000	1.484105E+00	132.3		
16000	[illegible]	129.1		
31500	2.493134E-01	123.9		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	[illegible]	OCTAVE BAND SOUND PRESSURE LEVELS [illegible]	OVER ALL
90.0	90.2	[illegible]	[illegible]
80.0	98.3	98.8 102.6 102.6 99.1 98.0 100.8	
75.0	99.6	97.1 103.0 102.8 100.9 95.8 97.1	109.2
70.0	97.9	96.3 103.3 101.3 101.8 96.0 92.8	110.1
65.0	97.4	95.2 103.1 100.2 100.2 94.1 90.8	111.7
60.0	96.2	93.9 102.0 [illegible] 100.0 93.8 86.6	112.2
[illegible]	[illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible]
55.0	93.7	92.1 101.3 100.1 100.6 102.2 87.1	112.2
50.0	93.8	91.6 100.9 101.5 100.0 101.5 87.3	111.2
45.0	92.3	89.3 99.4 100.3 100.0 101.0 87.0	110.8
40.0	91.9	88.8 98.8 [illegible] [illegible] [illegible] [illegible]	[illegible]
35.0	91.3	88.6 97.5 100.6 102.6 99.0 86.0	108.6
30.0	[illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible]
25.0	89.1	87.7 95.6 100.4 101.9 98.0 86.3	108.0
20.0	88.6	87.2 95.0 [illegible] [illegible] 98.0 83.4	[illegible]
15.0	88.0	86.9 95.4 100.1 100.2 96.8 82.2	105.9
10.0	78.9	85.5 [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible]
180.0	91.0	83.5 93.0 99.4 99.6 93.9 81.4	102.9
[illegible]	[illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible]
110.0	90.5	82.8 90.2 97.2 96.4 95.1 80.8	101.0
115.0	79.0	80.0 [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible]

NOZZLE THRUST = 18.500 FULL SCALE THRUST = 20000.000

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			15.2	30.4	60.8	121.7	243.3	486.6	973.2	1946.4	3892.7	7785.4	15570.9
5795.6	80.4	79.0	82.0	65.00	73.02	70.01	70.91	71.69	69.07	65.89	57.28	37.22	-26.05	-183.94
4348.9	80.8	77.1	80.0	60.39	70.02	67.09	67.58	68.07	66.07	62.59	51.59	32.26	-2.19	-58.16
3649.3	80.8	80.8	80.0	67.69	76.06	73.16	73.51	72.25	70.66	67.53	57.58	41.83	12.63	-34.23
3000.0	82.7	81.3	81.7	69.23	77.67	74.81	74.51	73.67	72.67	70.68	61.82	43.11	22.58	-16.07
2615.9	83.3	84.8	84.0	69.06	78.79	76.22	76.58	76.22	74.93	73.76	65.49	53.32	31.58	-3.67
2333.0	84.1	84.1	83.5	69.56	79.36	77.56	77.15	77.15	76.51	75.28	68.28	55.59	36.98	-1.17
2122.3	84.4	87.0	85.8	69.68	79.16	77.95	78.78	78.93	77.95	77.15	69.18	61.97	41.97	12.98
1959.1	182.3	79.2	87.8	69.78	79.31	78.43	79.09	79.32	78.28	78.08	73.12	62.91	45.79	19.71
1831.9	183.4	78.1	86.8	69.89	79.51	78.55	79.44	79.16	78.19	77.55	74.23	64.63	49.37	27.74
1732.1	183.1	77.7	85.9	69.39	79.16	78.36	79.37	79.28	78.57	78.03	75.39	65.39	49.95	29.65
1655.1	80.3	76.9	85.2	69.60	78.98	78.19	79.26	79.47	78.84	78.24	76.28	66.98	51.85	29.58
1594.5	80.2	76.8	85.1	69.58	78.93	78.15	79.23	79.48	78.91	78.31	76.61	67.52	52.97	29.86
1532.9	80.2	76.8	84.2	67.55	76.96	76.15	77.25	77.48	76.91	76.37	74.57	65.37	51.25	29.15
1523.1	80.3	76.5	83.8	67.38	76.79	75.98	77.10	77.44	76.96	76.44	74.69	65.29	51.38	29.98
1465.9	80.4	76.4	83.8	66.65	76.14	75.43	76.63	76.98	76.52	76.11	74.67	64.95	51.07	29.55
1388.8	80.4	76.2	83.8	66.91	76.39	75.70	76.91	77.35	76.92	76.59	74.88	64.68	51.04	29.21
1324.9	80.4	76.1	83.8	65.88	75.42	74.77	75.99	76.43	76.03	75.71	73.99	63.69	50.19	28.47
1269.9	80.4	76.0	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
1222.9	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
1182.9	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
1148.0	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
1117.5	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
1090.9	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
1067.5	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
1046.8	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
1028.4	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
1011.9	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
997.1	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
983.6	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
971.2	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
959.8	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
949.3	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
939.6	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50
930.6	80.4	75.9	83.8	65.91	75.45	74.80	76.02	76.46	76.06	75.74	74.02	63.72	50.22	28.50

RUN NUMBER	= 343.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INCH)	= -8.500
PRIMARY TEMPERATURE (R)	= 1885.000
SECONDARY TEMPERATURE (R)	= 538.000
PRIMARY PRESSURE RATIO	= 2.094
AREA RATIO	= 2.007
VELOCITY RATIO	= .845
PRIMARY VELOCITY (FT/SEC)	= 1113.564
MASS FLOW RATIO	= 1.431
PRIMARY MASS FLOW (LB/SEC)	= .423
THRUST (LBS)	= 31.000
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.610
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.000
CALIBRATION FACTOR (PV TO PT/SQ CM)	= .058
INSTRUMENTATION NOISE FLOOR (DB)	= 64.590

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.045505E+00	137.0
500	4.03090E-02	116.1
1000	2.70018E-01	124.3
2000	1.02057E+00	130.1
4000	1.25919E+00	131.0
8000	1.22319E+00	130.9
16000	8.01869E-01	129.0
31500	3.84990E-01	125.9

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	162.1
20000	165.1
40000	168.1
80000	171.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	94.8	100.0	106.2	103.7	100.1	95.4	91.7	110.1
20.0	94.6	103.1	107.5	105.5	102.4	98.1	95.8	111.5
25.0	93.4	102.4	107.0	106.4	103.5	100.2	97.1	114.0
30.0	92.2	100.9	106.7	106.8	104.5	100.9	96.6	111.9
35.0	89.8	98.9	105.3	106.0	103.9	100.8	98.4	111.9
40.0	88.0	97.2	103.7	105.4	105.0	102.4	98.4	110.8
45.0	85.9	95.3	102.0	104.5	104.8	102.5	98.3	110.1
50.0	85.1	94.1	101.1	103.0	103.5	102.0	98.8	109.1
55.0	84.0	93.0	99.6	102.2	103.1	101.6	98.4	108.4
60.0	84.1	92.3	98.9	100.9	101.6	100.6	98.4	107.4
65.0	84.3	91.7	98.3	100.1	100.8	99.7	98.7	106.5
70.0	84.4	91.6	97.5	99.5	100.4	99.5	98.3	106.1
75.0	83.0	91.2	97.0	99.3	99.8	99.1	98.3	105.5
80.0	83.3	90.6	96.2	98.5	99.1	98.4	95.8	105.0
85.0	82.8	90.3	95.4	98.1	98.9	98.7	99.0	104.6
90.0	82.8	89.9	95.0	97.4	98.7	97.4	95.2	104.2
95.0	82.3	89.3	95.3	97.1	98.3	97.0	93.4	103.8
100.0	81.4	88.5	94.9	97.1	98.0	96.9	94.1	103.6
105.0	80.6	87.9	93.7	96.9	97.9	96.7	94.2	103.1
110.0	80.1	88.0	92.7	96.1	97.4	96.7	93.5	102.7
115.0	79.4	86.1	91.1	94.6	96.9	96.6	93.3	101.8

MODEL THRUST = 31.000 FULL SCALE THRUST = 20000.000

L+	PWDB+	OASPL	19.7	OCTAVE 39.4	BAND 78.7	SOUND 157.5	PRESSURE 315.0	LEVELS 629.9	1260.2	2480.3	4921.3	9842.5	19685.0
8795.6	88.1(81.6)	83.6	68.20	76.12	79.47	76.66	72.00	64.65	54.76	37.74	6.94	-47.41	-135.35
4385.7	87.9(86.9)	86.9	78.44	78.87	83.19	80.92	77.06	70.85	63.80	50.21	26.16	-15.71	-82.98
3549.3	90.7(89.7)	89.2	71.01	79.99	85.20	83.73	80.26	75.38	68.43	56.85	36.82	2.37	-52.68
3888.8	92.9(91.7)	90.5	71.20	75.95	85.78	85.03	82.83	77.82	70.39	60.15	42.75	13.16	-33.88
2615.2	93.4(93.9)	91.7	78.06	79.20	85.86	86.93	85.69	81.10	74.02	64.71	49.15	22.98	-18.35
2933.4	94.8(94.1)	91.9	69.29	78.67	86.89	86.59	84.71	82.09	75.50	66.93	52.73	29.05	-8.15
2121.3	96.4(94.5)	91.6	68.03	77.42	84.06	86.44	86.22	83.11	76.67	68.55	55.34	33.87	-.52
1998.1	96.0(94.3)	91.3	67.49	78.93	83.86	85.69	85.80	83.41	78.10	70.37	57.97	37.61	5.92
1831.2	96.8(94.4)	91.2	67.37	78.42	82.93	85.41	86.06	83.66	78.52	71.09	59.38	40.08	10.24
1732.1	96.4(93.8)	90.6	68.81	78.18	82.75	84.60	85.96	83.23	78.17	71.99	60.68	42.33	13.93
1655.1	96.9(93.3)	90.2	68.58	75.99	82.58	84.28	84.70	82.83	78.07	71.08	60.13	42.46	15.21
1586.9	96.4(93.2)	90.1	69.08	76.03	82.03	83.93	84.03	82.93	78.08	71.21	60.84	43.49	17.01
1552.9	96.6(92.9)	89.8	68.65	76.06	81.75	84.05	84.27	82.43	77.59	70.84	60.38	43.62	17.86
1529.1	96.4(92.5)	89.4	68.33	75.64	81.14	83.67	83.72	82.30	78.08	71.66	61.09	44.59	19.27
1505.7	96.1(92.3)	89.1	67.91	75.43	81.01	83.08	83.66	81.71	77.44	70.81	60.88	44.26	19.17
1500.0	96.9(92.0)	88.8	67.95	75.08	80.86	82.57	83.41	81.47	77.63	71.01	60.81	44.52	19.53
1505.7	96.2(91.5)	88.4	67.37	74.43	80.34	82.11	83.04	81.01	76.36	69.72	59.49	43.14	18.69
1521.9	93.9(91.1)	88.1	66.48	73.69	79.82	82.01	82.89	80.89	76.09	69.71	59.40	42.98	17.58
1552.9	91.3(90.5)	87.5	65.60	72.29	78.43	81.24	81.94	80.41	76.25	69.50	59.04	42.28	16.53
1598.9	92.6(89.9)	86.9	64.73	70.67	77.21	80.54	81.46	80.19	75.26	68.41	57.75	40.68	14.21
1655.1	91.5(88.7)	86.4	63.69	69.36	75.34	78.50	80.12	79.47	74.67	67.67	56.71	39.06	11.81

RUN NUMBER	
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 344.000
PRIMARY TEMPERATURE (R)	= -8.500
SECONDARY TEMPERATURE (R)	= 539.000
PRIMARY PRESSURE RATIO	= 937.000
AREA RATIO	= 1.851
VELOCITY RATIO	= 2.887
PRIMARY VELOCITY (FT/SEC)	= 1.813
MASS FLOW RATIO	= 1624.260
PRIMARY MASS FLOW (LB/SEC)	= 1.883
THRUST (LBS)	= .427
ENVIRONMENTAL TEMPERATURE (R)	= 30.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 522.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.610
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 69.000
INSTRUMENTATION NOISE FLOOR (DB)	= .071
	= 66.500

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.54969E+00	138.8
500	5.04694E-02	117.0
1000	3.85223E-01	125.9
2000	1.40737E+00	131.5
4000	1.73027E+00	132.4
8000	1.80913E+00	132.6
16000	1.43021E+00	131.6
31500	7.21999E-01	128.6

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	163.2
20000	166.2
40000	169.2
80000	172.2

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	97.1	105.2	107.6	105.6	102.8	99.3	94.0	112.1
20.0	95.9	104.6	108.4	106.9	104.2	100.4	96.2	112.9
25.0	95.2	103.6	109.2	108.2	105.7	102.2	98.0	113.7
30.0	93.5	102.2	108.2	108.3	106.5	103.2	98.9	113.5
35.0	90.9	100.4	107.2	108.0	107.1	104.0	100.4	113.3
40.0	89.6	98.2	105.3	107.2	107.0	104.4	100.7	112.6
45.0	87.1	96.3	103.3	105.6	106.3	105.1	101.4	111.9
50.0	86.7	95.1	102.0	104.0	105.3	104.7	102.2	111.0
55.0	85.0	94.2	100.7	102.6	104.1	103.8	100.7	109.7
60.0	86.1	93.6	100.5	101.7	103.2	102.7	100.7	109.0
65.0	86.0	93.2	99.5	101.2	102.3	101.7	99.3	108.1
70.0	86.3	93.0	98.8	100.7	101.9	101.3	99.3	107.7
75.0	85.9	92.7	97.9	100.1	101.0	100.8	98.8	107.0
80.0	85.2	92.2	97.6	99.7	100.5	100.2	97.5	106.5
85.0	84.0	91.6	97.2	99.2	100.4	100.0	98.8	106.6
90.0	84.3	91.3	97.1	99.0	100.1	100.0	98.0	106.2
95.0	83.7	91.0	96.7	98.2	100.2	100.0	97.9	106.1
100.0	82.8	90.1	96.0	98.0	99.8	100.6	97.8	105.9
105.0	82.1	89.0	95.2	97.0	99.4	100.0	97.3	105.6
110.0	81.4	87.3	94.1	97.1	99.4	100.5	96.9	105.2
115.0	81.1	86.0	92.6	96.2	99.0	101.2	95.9	105.1

MODEL THRUST = 36.500 FULL SCALE THRUST = 20000.000

LV	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS									
			21.4	42.7	85.4	170.9	341.8	683.5	1365.7	2691.4	5340.0	10680.0	21360.0
8795.0	84.1(83.7)	84.2	69.74	77.40	80.11	77.74	73.79	67.38	56.89	37.72	4.69	-53.18	-145.60
4385.7	88.5(87.8)	87.4	71.01	79.66	83.39	81.62	78.07	72.07	62.68	48.12	22.39	-22.06	-92.79
3949.3	92.2(91.3)	90.1	72.18	80.58	85.80	84.86	81.62	76.32	67.98	55.58	34.15	-2.48	-80.21
3000.0	94.5(93.4)	91.4	71.88	80.56	86.51	86.42	84.08	79.21	71.38	60.47	41.92	10.56	-38.76
2615.2	96.4(95.0)	92.3	70.51	79.96	86.72	87.38	85.91	81.54	74.84	64.94	48.39	20.67	-22.72
2333.6	97.3(95.8)	92.5	70.17	78.76	85.79	87.61	86.98	83.13	76.72	67.57	52.48	27.42	-11.62
2121.3	98.0(96.1)	92.5	68.54	77.71	84.66	86.82	87.34	84.78	78.65	70.06	56.07	33.02	-2.74
1958.1	98.2(96.0)	92.2	66.81	77.18	84.07	85.96	86.85	85.24	80.47	72.30	59.16	37.65	4.41
1831.2	97.8(95.6)	91.9	66.50	76.91	83.36	85.12	86.25	84.69	79.77	71.95	59.46	39.15	7.87
1732.1	97.6(95.2)	91.4	69.29	76.74	83.59	84.76	85.84	84.52	80.41	72.84	60.86	41.49	11.74
1655.1	97.2(94.7)	91.0	69.53	76.71	82.99	84.63	85.43	83.93	79.61	72.24	60.67	42.02	13.46
1596.3	97.3(94.7)	90.9	70.15	76.88	82.66	84.46	85.34	83.93	79.98	72.77	61.50	43.41	15.76
1552.9	96.8(94.2)	90.4	69.61	76.83	81.97	84.04	84.84	83.74	79.60	72.52	61.46	43.78	16.88
1523.1	96.3(93.8)	90.1	69.44	76.65	81.81	83.83	84.39	83.23	78.79	71.77	60.88	43.48	16.96
1504.7	96.0(94.0)	90.2	69.92	75.79	81.58	83.65	84.38	83.76	80.24	73.29	62.49	45.26	19.09
1500.0	96.3(93.6)	89.9	68.68	75.74	81.49	83.25	84.12	83.21	79.50	72.55	61.78	44.66	18.43
1505.7	96.2(93.6)	89.7	68.06	76.34	81.09	82.49	84.12	83.76	78.92	71.98	61.15	43.92	17.66
1523.1	96.0(93.4)	89.4	67.11	74.37	80.27	82.17	83.47	83.69	79.06	72.04	61.15	43.75	17.23
1552.9	95.8(93.0)	88.9	66.25	73.11	79.32	81.78	83.29	83.50	78.35	71.26	60.21	42.53	15.55
1596.3	94.9(92.4)	88.3	65.25	71.28	77.92	80.84	82.87	83.14	77.59	70.38	59.11	41.02	13.37
1655.1	94.3(92.0)	87.8	64.69	70.18	76.71	79.81	82.71	83.15	75.80	68.93	58.06	38.21	9.68

RUN NUMBER	= 349.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -8.500
PRIMARY TEMPERATURE (R)	= 537.000
SECONDARY TEMPERATURE (R)	= 536.000
PRIMARY PRESSURE RATIO	= 3.860
AREA RATIO	= 4.056
VELOCITY RATIO	= .371
PRIMARY VELOCITY (FT/SEC)	= 1330.992
MASS FLOW RATIO	= 1.625
PRIMARY MASS FLOW (LB/SEC)	= .425
THRUST (LBS)	= 25.000
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.410
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .045
INSTRUMENTATION NOISE FLOOR (DB)	= 62.585

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.681999E+00	130.6
500	2.971326-02	113.2
1000	1.482906-01	121.7
2000	7.078026-01	128.5
4000	1.982256+00	133.0
8000	1.152236+00	130.6
16000	4.419366-01	126.5
31500	1.667676-01	122.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	162.7
20000	165.7
40000	168.7
80000	171.7

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	91.7	98.8	101.2	98.7	93.2	87.2	82.4	105.1
20.0	90.9	99.3	102.3	99.9	93.3	87.0	84.8	105.8
25.0	90.6	98.5	102.1	101.7	96.6	89.8	86.2	106.5
30.0	88.7	97.8	102.4	102.1	97.8	91.7	88.9	107.2
35.0	87.7	96.9	102.4	104.7	99.7	93.6	88.8	108.1
40.0	86.4	95.7	101.7	106.2	101.9	96.9	90.6	108.9
45.0	85.1	94.6	101.3	106.5	103.4	97.2	91.9	109.6
50.0	83.7	92.6	101.3	107.2	104.0	98.9	93.4	110.3
55.0	82.6	91.8	100.6	106.6	104.9	99.8	94.6	110.1
60.0	81.7	90.9	100.8	106.6	105.9	99.7	95.3	109.8
65.0	80.4	89.9	99.8	105.8	103.4	99.6	95.0	108.7
70.0	81.3	89.3	98.3	103.8	102.3	99.9	96.6	107.7
75.0	80.3	89.2	97.4	103.7	101.5	98.3	96.7	107.3
80.0	79.3	88.9	96.7	102.8	100.9	97.9	96.2	106.9
85.0	79.3	88.2	96.4	101.2	99.8	97.8	93.2	105.4
90.0	78.6	88.0	96.8	99.9	99.1	96.8	92.3	104.6
95.0	78.1	87.8	96.4	99.7	98.7	95.8	92.8	104.3
100.0	77.9	86.9	95.4	99.7	98.3	94.8	90.9	103.8
105.0	76.3	84.4	94.3	99.5	98.2	94.2	91.2	103.5
110.0	76.3	83.8	92.4	97.9	98.8	94.2	90.8	102.8
115.0	76.3	82.9	90.4	95.6	93.7	91.9	88.8	99.8

MODEL THRUST = 25.000 FULL SCALE THRUST = 20000.000

L1	PHOB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 17.7	35.4	70.7	141.4	282.8	565.7	1113.7	2227.4	4419.4	8838.8	17677.7
8795.6	76.4(78.9)	79.1	66.84	73.12	79.97	72.61	66.89	67.96	47.76	32.91	-4.21	-48.88	-187.98
4385.7	79.0(78.2)	81.5	67.67	76.65	78.99	67.32	71.14	63.68	54.73	42.31	28.32	-10.30	-81.15
3549.3	84.8(83.9)	84.9	69.23	77.18	80.61	80.85	74.26	66.26	59.26	48.63	30.26	-1.66	-53.80
3000.0	87.7(86.7)	87.6	68.78	77.20	82.63	82.98	77.28	69.89	62.33	52.89	36.98	4.54	-34.41
2615.2	90.8(89.8)	89.1	68.91	78.13	83.88	85.78	80.29	73.28	65.97	57.26	43.63	10.78	-19.98
2333.6	93.8(91.6)	90.9	68.68	77.92	83.87	86.25	83.18	75.68	69.02	61.01	47.98	25.96	-8.98
2121.3	95.8(93.5)	92.3	68.12	77.88	84.31	89.45	86.81	78.81	71.71	64.15	51.67	31.74	-4.21
1958.1	96.9(95.2)	93.7	67.41	76.36	85.83	90.82	87.93	81.45	74.17	66.97	55.49	36.58	6.88
1831.2	97.9(96.8)	94.1	66.90	75.30	84.93	90.82	88.81	83.68	76.06	69.13	58.19	40.38	12.33
1732.1	98.2(96.8)	94.3	66.47	75.66	85.27	91.31	88.39	83.43	77.46	70.74	60.23	43.17	16.83
1655.1	98.8(95.7)	93.6	65.66	75.08	84.21	90.11	87.22	82.82	77.64	71.13	60.96	44.58	19.92
1594.3	97.5(95.1)	92.9	66.85	74.82	83.77	89.19	87.49	83.57	77.67	71.25	61.33	45.37	20.88
1542.9	97.3(94.8)	92.7	66.63	74.92	83.16	89.32	86.97	83.17	78.84	71.71	61.96	46.37	22.18
1523.1	96.9(94.3)	92.1	65.26	74.67	82.61	88.32	86.58	82.87	77.76	71.69	61.89	46.52	22.73
1505.7	96.0(93.4)	91.2	65.30	74.28	82.44	87.17	85.48	82.13	76.94	70.71	61.19	45.96	22.61
1500.0	95.2(92.6)	90.3	64.67	74.67	82.68	85.86	84.88	81.16	76.01	69.78	60.29	45.11	21.63
1505.7	94.9(92.4)	90.0	64.17	73.88	82.68	85.67	84.63	80.81	75.72	69.49	59.97	44.76	21.19
1523.1	94.0(91.5)	89.4	63.57	73.92	81.34	85.55	83.50	79.78	74.46	68.19	58.59	43.22	19.43
1552.9	93.7(91.2)	89.0	62.62	73.17	80.66	85.12	83.66	79.68	74.61	68.27	58.55	42.94	18.74
1596.3	91.9(89.3)	87.2	61.78	69.15	77.92	83.31	81.24	78.76	73.65	67.22	57.31	41.38	16.58
1655.1	89.3(86.6)	84.7	61.67	68.13	75.63	80.71	78.53	76.16	71.43	64.88	54.71	38.27	13.68

RUN NUMBER	= 346.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -8.500
PRIMARY TEMPERATURE (R)	= 536.000
SECONDARY TEMPERATURE (R)	= 935.000
PRIMARY PRESSURE RATIO	= 2.094
AREA RATIO	= 4.856
VELOCITY RATIO	= .846
PRIMARY VELOCITY (FT/SEC)	= 1109.432
MASS FLOW RATIO	= 3.094
PRIMARY MASS FLOW (LB/SEC)	= .423
THRUST (LBS)	= 53.000
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.610
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .063
INSTRUMENTATION NOISE FLOOR (DB)	= 65.560

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.52141E+00	137.4
500	1.13235E-01	120.5
1000	5.91084E-01	127.7
2000	1.46069E+00	131.6
4000	1.38301E+00	131.4
8000	1.05993E+00	130.3
16000	6.25684E-01	128.0
31500	2.87776E-01	124.6

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.2
20000	163.2
40000	166.2
80000	169.2

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	100.2	106.6	107.6	103.3	97.2	91.2	85.4	111.5
20.0	100.0	106.6	108.6	104.9	98.5	94.0	90.3	112.2
25.0	98.3	105.9	109.0	105.3	100.6	95.5	90.9	112.5
30.0	96.6	104.7	108.2	105.6	100.9	96.5	92.3	111.9
35.0	94.7	102.6	106.9	105.6	101.8	97.6	93.0	111.1
40.0	92.8	100.9	105.7	105.7	102.9	98.7	94.3	110.7
45.0	90.8	98.8	104.1	104.4	102.7	98.4	93.9	109.5
50.0	89.5	96.6	102.6	104.1	102.7	99.3	95.0	109.0
55.0	88.4	95.3	101.0	102.6	101.9	99.6	96.4	108.0
60.0	87.4	94.5	100.1	101.9	101.7	99.6	96.9	107.8
65.0	87.1	93.9	99.0	101.1	101.1	99.1	95.5	106.9
70.0	86.8	93.5	98.7	100.5	100.8	99.1	96.0	106.5
75.0	86.6	93.2	98.4	100.4	100.8	99.2	96.1	106.5
80.0	86.5	92.9	97.7	100.1	100.5	99.3	96.8	106.3
85.0	86.1	92.4	97.2	99.8	99.7	98.4	95.6	105.6
90.0	85.8	92.1	97.2	99.5	99.9	98.1	94.9	105.5
95.0	86.1	91.4	97.0	98.9	99.8	98.1	94.9	105.3
100.0	85.0	91.2	96.4	99.0	99.8	98.1	94.9	105.2
105.0	84.1	90.6	96.1	98.6	99.3	98.0	94.8	104.9
110.0	83.2	89.8	95.3	98.3	98.8	97.6	94.6	104.3
115.0	83.2	88.1	94.0	97.3	98.6	97.7	94.7	104.0

MODEL THRUST = 53.000 FULL SCALE THRUST = 20000.000

LI	PNDB,	OASPL	25.7	OCTAVE 51.5	BAND 103.0	SOUND 205.9	PRESSURE 411.8	LEVELS 823.7	1621.6	3243.1	6434.8	12869.5	25739.1
5795.6	80.6(80.5)	82.3	71.22	77.57	78.46	73.60	66.05	56.25	41.92	20.33	-18.23	-84.40	-187.70
4385.7	85.0(84.7)	85.3	73.43	80.07	81.96	78.84	70.29	62.96	52.83	33.77	5.86	-44.96	-123.04
3549.3	88.0(87.5)	87.5	73.57	81.17	84.23	80.16	74.59	67.20	57.31	42.93	18.15	-23.53	-87.96
3000.0	89.8(89.1)	88.3	73.37	81.47	84.84	81.81	76.57	70.20	61.60	48.98	27.57	-8.13	-63.05
2615.2	91.3(90.5)	88.7	72.72	80.52	84.79	83.24	78.86	72.88	64.40	53.01	33.96	2.48	-45.88
2333.6	92.7(91.7)	89.2	71.81	79.85	84.61	84.38	80.97	75.26	67.43	56.95	39.63	11.20	-32.19
2121.3	92.9(91.7)	88.8	70.60	78.52	83.81	83.88	81.66	76.64	68.34	58.54	42.52	16.40	-23.31
1958.1	93.0(92.0)	88.9	70.03	77.00	83.03	84.31	82.41	77.78	70.58	61.30	46.14	21.94	-14.95
1831.2	94.1(92.5)	88.4	69.44	76.35	81.97	83.44	82.27	78.78	72.84	63.97	49.73	26.78	-7.92
1732.1	94.4(92.7)	88.4	68.92	76.05	81.60	83.20	82.57	79.37	73.97	65.82	51.39	29.91	-3.46
1655.1	94.2(92.4)	88.1	69.08	75.83	80.90	82.88	82.41	79.34	73.28	64.97	51.81	30.78	-.87
1596.3	94.4(92.5)	88.1	68.90	75.72	80.92	82.59	82.24	79.67	74.20	66.15	53.35	32.95	2.33
1552.9	94.8(92.8)	88.3	69.14	75.65	80.82	82 78	82.69	80.13	74.76	66.78	54.25	34.32	4.45
1523.1	94.9(92.9)	88.2	69.18	75.59	80.29	82.62	82.84	80.37	75.35	67.67	55.12	35.52	6.16
1505.7	94.2(92.2)	87.7	68.68	75.11	79.96	82.13	81.98	79.60	74.63	66.80	54.56	35.15	6.09
1500.0	94.1(92.2)	87.6	68.64	74.93	79.99	82.13	82.18	79.35	73.96	66.15	53.94	34.60	5.64
1505.7	93.9(92.0)	87.3	68.88	74.15	79.68	81.49	81.97	79.36	73.91	66.08	53.84	34.63	5.37
1523.1	93.7(91.7)	87.1	67.62	73.89	79.06	81.49	81.68	79.25	73.77	65.88	53.54	33.94	4.58
1552.9	93.2(91.2)	86.6	66.64	73.06	78.54	80.96	81.25	78.95	73.44	65.46	52.93	33.01	3.13
1600.9	92.3(90.3)	85.8	65.90	71.22	77.50	80.32	80.61	78.08	72.87	64.95	51.75	31.38	.73
1655.1	91.7(89.7)	85.0	65.19	70.04	75.91	79.00	79.96	78.08	72.46	64.16	51.88	29.96	-1.68

RUN NUMBER	= 347.00 (764.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -8.500
PRIMARY TEMPERATURE (R)	= 539.000
SECONDARY TEMPERATURE (R)	= 537.000
PRIMARY PRESSURE RATIO	= 1.051
AREA RATIO	= 4.856
VELOCITY RATIO	= 1.013
PRIMARY VELOCITY (FT/SEC)	= 1024.260
MASS FLOW RATIO	= 3.566
PRIMARY MASS FLOW (LB/SEC)	= .425
THRUST (LBS)	= 65.000
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.610
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .045
INSTRUMENTATION NOISE FLOOR (DB)	= 62.585

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.18749E+00	135.0
500	6.27799E-02	118.0
1000	3.29437E-01	125.2
2000	8.52133E-01	129.3
4000	7.22348E-01	128.6
8000	6.12066E-01	127.9
16000	4.26054E-01	126.3
31500	1.82667E-01	122.6

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	156.9
20000	159.9
40000	162.9
80000	165.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	97.4	103.7	105.4	100.2	94.4	89.4	84.0	108.9
20.0	97.1	104.3	106.0	102.1	96.3	91.4	86.5	110.1
25.0	96.2	103.5	106.5	102.3	97.3	92.4	87.6	109.8
30.0	94.6	102.1	106.2	103.3	98.7	94.1	89.5	109.7
35.0	92.3	100.5	105.5	103.5	99.7	95.1	90.4	109.3
40.0	90.9	98.6	103.8	103.1	100.0	96.6	91.9	108.6
45.0	88.1	95.8	101.1	101.6	100.3	96.7	92.7	106.9
50.0	86.5	94.4	99.9	101.2	100.7	98.1	94.6	106.8
55.0	85.7	93.1	98.5	100.1	99.9	97.5	94.3	105.8
60.0	84.3	91.8	97.6	98.6	98.8	97.2	94.2	104.8
65.0	84.6	91.1	96.1	97.8	98.3	96.9	94.6	104.2
70.0	84.7	91.1	95.4	97.2	98.0	96.8	94.4	103.8
75.0	84.2	90.3	95.1	97.1	97.5	96.5	93.5	103.6
80.0	83.7	89.9	94.9	96.9	97.1	96.7	93.4	103.2
85.0	83.4	89.2	94.1	96.5	97.4	97.0	94.0	103.2
90.0	83.3	88.8	94.2	96.0	96.9	96.6	93.3	102.8
95.0	82.3	88.9	93.2	95.5	97.2	96.9	92.7	102.7
100.0	81.5	87.5	93.3	95.3	97.6	97.4	92.8	102.8
105.0	80.8	87.1	92.8	95.4	97.3	97.4	92.6	102.7
110.0	80.3	86.2	92.5	95.8	97.5	97.0	92.1	102.6
115.0	79.9	85.3	91.4	94.7	97.8	97.5	92.3	102.6

MODEL THRUST = 65.000 FULL SCALE THRUST = 20000.000

LT	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 28.5	57.0	114.0	228.0	456.1	912.1	1795.0	3591.6	7186.1	14252.2	28504.4
6795.6	77.8(76.9)	78.7	67.86	73.76	75.34	69.54	62.81	52.70	37.67	14.05	-27.85	-98.91	-208.31
4389.7	82.0(81.0)	82.5	69.67	78.42	79.19	74.01	66.94	58.18	46.80	28.00	-6.66	-58.95	-162.67
3549.3	84.4(84.0)	83.9	70.62	77.88	80.80	76.16	70.20	62.66	51.98	36.35	9.52	-35.16	-103.32
3088.0	86.7(86.2)	85.2	70.46	78.08	81.98	78.73	73.29	66.49	56.83	43.15	20.02	-18.71	-76.29
2615.2	88.3(87.7)	85.9	69.38	77.53	82.49	80.19	75.64	69.06	60.05	47.75	27.19	-6.52	-57.53
2333.6	89.5(88.6)	86.0	68.54	76.63	81.75	80.82	77.68	71.89	63.36	52.87	33.41	3.08	-43.84
2121.3	89.6(88.5)	85.2	66.97	74.65	79.92	80.15	78.39	73.13	65.60	55.05	37.81	9.99	-32.68
1998.1	90.9(89.9)	85.8	66.07	73.97	79.69	80.51	79.03	75.02	68.65	58.69	42.54	16.56	-22.41
1831.2	90.8(89.4)	85.1	65.88	73.24	78.68	80.02	79.24	75.44	69.28	59.77	44.48	19.97	-16.65
1732.1	90.6(89.0)	84.8	64.94	72.49	78.01	78.99	78.74	75.82	69.92	60.76	46.13	22.79	-12.81
1655.1	90.8(89.0)	84.4	65.68	72.13	77.13	78.65	78.65	76.04	70.07	62.08	47.97	25.54	-7.85
1596.3	90.8(89.0)	84.3	66.11	72.44	76.88	78.30	78.65	76.27	71.21	62.53	48.81	27.07	-5.24
1552.9	90.6(88.8)	84.2	65.77	71.98	76.62	78.46	78.40	76.27	70.72	62.19	48.77	27.53	-3.98
1523.1	90.6(88.7)	84.1	65.44	71.68	76.20	78.41	78.25	76.04	70.03	62.41	49.18	28.30	-2.66
1505.7	90.9(89.0)	84.2	65.28	71.03	75.94	78.16	78.59	77.12	71.69	63.30	50.19	29.51	-1.14
1500.0	90.5(88.6)	83.8	65.18	70.69	76.02	77.73	78.19	76.76	70.96	62.62	49.65	28.94	-1.49
1505.7	90.3(88.5)	83.6	64.16	70.74	75.03	77.12	78.66	76.96	70.33	61.97	48.84	28.18	-2.47
1523.1	90.3(88.5)	83.6	63.27	69.27	74.98	76.87	78.48	77.41	70.25	61.83	48.61	27.72	-3.24
1552.9	90.0(88.2)	83.3	62.42	68.66	74.35	76.81	78.27	77.13	69.85	61.32	47.98	26.66	-4.85
1596.3	89.5(87.8)	83.0	61.68	67.55	73.78	76.75	78.21	76.56	69.93	60.26	46.56	25.79	-7.91
1655.1	89.2(87.5)	82.5	60.93	66.39	73.35	76.47	78.12	76.57	68.69	59.48	45.78	23.26	-10.13

RUN NUMBER	= 348.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -8.500
PRIMARY TEMPERATURE (R)	= 540.000
SECONDARY TEMPERATURE (R)	= 538.000
PRIMARY PRESSURE RATIO	= 3.060
AREA RATIO	= 9.788
VELOCITY RATIO	= .370
PRIMARY VELOCITY (FT/SEC)	= 1334.705
MASS FLOW RATIO	= 2.877
PRIMARY MASS FLOW (LB/SEC)	= .427
THRUST (LBS)	= 36.000
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.610
ENVIRONMENTAL HUMIDITY (PER CENT)	= 64.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .040
INSTRUMENTATION NOISE FLOOR (DB)	= 61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL,SCALED FOR THRUST	
OVERALL	3.83457E+00	135.8	THRUST	POWER LEVEL(DB)
500	2.79489E-02	114.5	10000	160.3
1000	1.55691E-01	121.9	20000	163.3
2000	7.13649E-01	128.5	40000	166.3
4000	1.64851E+00	131.8	80000	169.3
8000	8.98921E-01	129.5		
16000	4.27105E-01	126.3		
31500	1.70749E-01	122.3		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
10.0	93.2	98.1	99.8	100.8	91.0	84.0	81.6	105.0
20.0	92.8	99.3	100.8	98.0	92.9	88.5	83.9	105.8
25.0	91.8	99.8	101.4	99.4	94.3	89.8	85.1	105.6
30.0	91.8	97.9	101.5	100.7	96.8	91.1	86.9	105.9
35.0	88.9	96.7	101.7	102.1	97.6	92.5	88.5	106.5
40.0	87.3	98.1	101.8	104.5	100.0	95.1	90.8	107.8
45.0	85.7	93.8	101.3	105.5	102.6	97.9	92.6	109.0
50.0	86.2	92.3	100.9	105.9	103.8	98.3	93.8	109.6
55.0	83.8	91.2	100.9	106.8	104.2	100.2	95.3	109.7
60.0	82.6	90.7	100.1	106.7	103.5	100.6	95.9	109.8
65.0	81.7	90.4	99.3	105.5	102.3	99.6	95.4	107.9
70.0	81.8	90.1	99.0	103.9	101.0	98.9	95.2	107.6
75.0	81.3	89.7	98.2	101.7	100.4	97.8	94.4	106.3
80.0	80.8	89.7	97.3	100.4	99.1	96.8	93.8	105.1
85.0	80.3	89.6	97.8	99.8	98.5	96.6	93.8	104.9
90.0	80.1	88.8	97.4	99.8	97.9	96.8	92.7	104.8
95.0	79.4	88.2	97.4	99.8	98.8	96.9	91.8	103.7
100.0	78.3	88.0	96.4	98.3	98.0	96.1	90.8	102.8
105.0	78.8	88.8	95.2	97.9	96.8	93.5	89.5	102.6
110.0	77.0	86.7	93.1	95.8	94.1	92.4	87.1	100.8
115.0	78.0	86.3	91.4	93.8	91.8	90.0	87.3	98.8

MODEL THRUST = 36.000 FULL SCALE THRUST = 10000.000

L0	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 30.0	60.0	120.0	240.0	480.0	960.0	1920.0	3780.0	7680.0	15000.0	30000.0
4385.7	76.5	76.2	76.7	66.99	71.40	72.76	69.39	62.92	55.65	42.62	23.39	-10.37	-69.80	-192.66
3840.3	80.1	79.7	79.1	65.82	72.96	75.98	72.77	66.57	59.88	48.39	32.18	4.28	-42.63	-112.89
3360.0	83.1	82.6	80.9	66.40	73.36	78.03	75.65	70.01	62.72	53.26	39.02	14.98	-24.56	-84.24
2815.2	89.7	85.1	82.6	69.58	73.32	78.24	78.33	72.78	65.79	57.18	44.38	23.06	-11.82	-66.23
2333.6	88.9	88.2	84.9	76.91	72.73	79.16	81.72	76.56	69.83	61.33	49.59	30.22	-1.21	-48.38
2121.8	91.3	90.3	88.8	80.14	72.28	79.67	83.66	80.23	73.69	64.68	52.74	35.86	7.87	-36.66
1988.1	92.6	91.6	87.8	83.32	71.47	79.98	84.71	81.49	75.22	67.08	56.74	40.81	13.19	-28.86
1831.2	93.8	92.7	88.7	82.76	70.92	80.55	85.45	83.88	77.66	69.46	59.68	43.73	18.45	-20.19
1732.1	93.9	92.7	89.4	82.87	70.96	80.22	86.62	83.93	78.68	70.92	61.43	46.28	22.18	-13.56
1655.1	93.4	92.1	87.8	82.32	70.96	79.88	83.86	82.13	78.15	71.02	61.82	47.21	24.65	-10.22
1596.3	93.3	91.8	87.5	82.77	70.99	79.85	83.71	81.63	77.85	71.61	62.43	48.34	25.19	-7.37
1552.0	92.3	91.0	86.7	82.63	70.92	79.32	82.69	80.81	77.82	72.03	62.82	48.12	26.21	-5.13
1523.1	91.6	90.8	85.7	81.98	70.98	78.52	81.51	79.69	76.19	70.27	61.57	47.69	26.33	-4.98
1505.7	91.5	89.9	85.6	81.75	71.02	79.18	80.96	79.22	76.17	70.73	62.89	48.53	27.18	-4.26
1500.0	90.6	89.2	84.9	81.62	70.38	78.78	80.22	78.61	75.58	69.66	61.82	47.58	26.23	-5.11
1505.7	90.8	88.6	84.8	80.88	69.57	78.72	80.15	77.54	74.42	68.37	59.73	45.16	24.02	-6.63
1523.1	89.2	87.7	83.7	79.59	67.98	77.64	79.36	77.37	73.41	67.69	58.78	43.16	22.16	-8.23
1552.0	88.2	86.8	82.9	79.21	68.92	76.31	78.88	76.19	72.71	65.96	57.16	43.25	21.33	-11.81
1596.3	88.3	86.7	83.7	78.52	65.58	73.87	76.42	74.32	71.31	65.19	56.21	42.81	19.57	-13.59
1655.1	83.6	82.2	78.4	76.88	66.96	72.17	73.87	71.63	68.58	62.88	53.69	39.88	16.91	-16.35

RUN NUMBER	= 349.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -8.500
PRIMARY TEMPERATURE (R)	= 541.000
SECONDARY TEMPERATURE (R)	= 540.000
PRIMARY PRESSURE RATIO	= 2.094
AREA RATIO	= 9.788
VELOCITY RATIO	= .846
PRIMARY VELOCITY (FT/SEC)	= 1114.595
MASS FLOW RATIO	= 6.054
PRIMARY MASS FLOW (LB/SEC)	= .427
THRUST (LBS)	= 89.000
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.610
ENVIRONMENTAL HUMIDITY (PER CENT)	= 59.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.81303E+00	138.3
500	3.05756E-01	124.9
1000	1.16389E+00	130.7
2000	1.73575E+00	132.4
4000	1.51525E+00	132.1
8000	1.12377E+00	130.5
16000	5.98770E-01	127.8
31500	2.69848E-01	124.3

OVERALL SOUND POWER LEVEL+SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.8
20000	161.8
40000	164.9
80000	167.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE BAND SOUND PRESSURE LEVELS						OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	104.3	108.3	91.4	100.9	95.8	90.1	86.9	110.8
20.0	104.8	109.2	107.8	103.1	98.4	92.3	88.2	113.8
25.0	103.8	109.1	108.7	104.6	99.4	93.8	89.8	113.3
30.0	101.9	108.4	108.8	105.6	101.1	96.2	92.3	113.3
35.0	99.4	106.2	108.7	106.3	102.1	97.8	93.8	112.8
40.0	97.2	103.9	106.8	106.1	102.8	98.5	94.5	111.7
45.0	95.2	101.8	105.2	105.5	103.0	99.2	95.4	110.8
50.0	93.3	99.7	104.1	105.1	103.6	100.0	96.0	110.2
55.0	91.8	98.1	102.7	104.9	103.9	99.8	96.4	109.3
60.0	91.3	97.2	101.9	103.1	102.3	99.8	96.1	108.6
65.0	91.2	96.8	101.1	102.5	101.9	99.8	96.2	108.2
70.0	91.3	96.4	100.6	101.6	101.3	99.3	96.0	107.6
75.0	90.6	95.9	100.1	101.2	100.9	98.9	95.7	107.1
80.0	90.3	95.1	99.2	100.9	100.4	98.6	95.4	106.7
85.0	89.8	95.0	99.1	100.3	99.8	98.0	94.9	106.2
90.0	89.5	94.3	98.8	99.8	99.7	97.8	94.6	105.8
95.0	89.2	93.8	98.1	99.8	99.6	97.8	94.8	105.7
100.0	88.8	93.4	97.8	100.0	99.8	97.3	94.8	105.8
105.0	87.6	92.8	97.3	99.6	99.6	97.1	93.2	105.2
110.0	86.6	91.8	96.8	99.1	98.9	96.9	93.5	104.7
115.0	85.8	90.8	96.3	98.8	98.2	96.3	93.0	103.9

MODEL THRUST = 89.000 FULL SCALE THRUST = 20000.000

SPL	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS								
			33.4	66.7	133.4	266.8	533.7	1067.3	2181.3	4202.6	8338.9	16877.1	33356.2
5749.6	75.5	75.4	70.8	73.12	76.99	69.86	68.63	61.19	59.47	33.72	8.62	-30.45	-117.87	-236.85
4285.7	82.9	82.8	83.9	75.22	80.27	78.73	73.43	67.73	57.18	36.28	23.88	-12.58	-76.11	-156.88
3549.3	85.2	85.0	86.1	78.61	82.14	81.57	76.63	70.56	61.71	39.67	32.91	2.68	-46.68	-120.49
3888.0	88.7	88.6	87.9	76.58	82.89	83.16	79.58	73.98	66.36	55.48	41.81	16.98	-27.31	-98.46
2815.2	90.5	90.4	88.1	79.11	81.86	84.38	81.47	76.37	69.66	60.28	46.41	23.26	-13.96	-89.28
2333.6	91.4	91.3	87.8	73.96	88.56	83.32	82.33	78.19	71.81	63.17	50.46	28.56	-6.85	-82.75
2121.3	92.6	92.5	87.7	72.78	79.52	82.66	82.65	79.36	73.65	64.65	53.63	34.46	3.73	-61.72
1956.1	92.6	92.5	87.8	71.51	77.87	82.17	82.98	80.78	75.16	67.53	56.36	38.36	9.85	-52.52
1831.2	92.6	92.5	87.3	70.66	76.34	81.45	82.68	80.66	75.98	68.92	58.31	41.26	14.28	-45.41
1732.1	92.6	92.5	87.1	70.44	76.46	81.12	82.69	80.87	76.58	69.83	59.23	42.98	17.22	-38.66
1655.1	92.7	92.6	87.3	70.87	76.18	80.89	81.96	80.92	77.08	70.25	60.17	44.67	19.96	-34.19
1596.3	92.7	92.6	86.8	71.26	76.48	80.55	81.33	80.67	76.98	70.92	60.89	45.64	21.78	-33.24
1552.9	92.8	92.7	86.6	73.88	76.88	80.26	81.11	80.24	76.95	70.58	61.12	46.21	22.84	-31.24
1523.1	92.9	92.8	86.2	78.09	78.47	80.48	81.08	79.99	76.81	70.76	61.47	46.74	23.75	-30.72
1505.7	92.8	92.8	85.9	76.31	75.52	79.56	80.43	79.43	76.28	70.21	60.95	46.39	23.84	-29.49
1500.8	92.7	92.7	85.5	78.83	76.83	79.98	80.65	79.61	75.82	69.92	60.74	46.23	23.55	-30.48
1505.7	92.6	92.5	85.4	84.79	76.16	78.55	80.81	79.25	76.47	69.82	60.56	46.01	23.26	-29.87
1523.1	92.2	92.1	85.1	88.46	73.76	78.17	80.12	79.18	75.56	69.18	59.83	45.16	22.18	-31.32
1559.9	92.7	92.6	86.8	87.66	72.19	77.42	79.52	78.83	75.38	68.25	58.98	43.88	20.51	-33.57
1598.3	89.9	89.8	83.8	86.57	72.74	76.39	78.92	78.08	74.56	67.97	58.33	43.09	19.15	-35.88
1659.1	88.7	88.5	82.6	88.58	70.45	75.46	77.36	76.93	73.58	67.00	57.12	41.92	18.71	-39.41

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 350.000
PRIMARY TEMPERATURE (R)	= -8.500
SECONDARY TEMPERATURE (R)	= 538.000
PRIMARY PRESSURE RATIO	= 540.000
AREA RATIO	= 1.851
VELOCITY RATIO	= 9.788
PRIMARY VELOCITY (FT/SEC)	= 1.017
MASS FLOW RATIO	= 1023.309
PRIMARY MASS FLOW (LB/SEC)	= 6.692
THRUST (LBS)	= .423
ENVIRONMENTAL TEMPERATURE (R)	= 107.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 922.500
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.610
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 57.000
INSTRUMENTATION NOISE FLOOR (DB)	= .100
	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.191212E+01	141.2
500	5.655212E-01	127.5
1000	2.280260E+00	133.6
2000	3.374662E+00	135.3
4000	2.452878E+00	133.9
8000	2.205232E+00	133.4
16000	1.350198E+00	131.3
31500	5.811946E-01	127.6

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.9
20000	163.9
40000	166.9
80000	169.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	107.1	110.9	109.2	104.5	99.3	94.5	89.9	114.8
20.0	108.3	112.6	110.9	105.2	100.0	95.8	91.6	115.9
25.0	105.9	112.5	110.1	107.6	102.8	97.6	93.0	116.6
30.0	104.9	111.3	112.7	108.9	104.5	99.3	95.2	116.7
35.0	102.2	109.4	111.0	108.8	104.8	100.2	96.8	115.6
40.0	99.4	106.9	109.8	108.9	105.0	101.7	97.8	114.7
45.0	97.6	104.3	107.9	108.1	104.3	102.0	98.7	113.6
50.0	95.9	101.9	106.0	107.3	103.7	102.1	98.8	112.7
55.0	94.1	100.4	104.9	106.5	103.7	102.9	99.3	111.9
60.0	93.0	99.7	103.9	105.6	103.3	102.8	99.5	111.5
65.0	93.7	99.1	103.1	104.8	103.4	102.7	99.6	110.9
70.0	93.7	98.8	102.8	103.8	103.0	102.8	99.2	110.9
75.0	92.7	98.8	101.9	103.2	102.6	102.6	99.6	109.6
80.0	93.4	97.8	101.3	102.6	102.5	102.0	98.2	109.0
85.0	92.6	97.2	101.2	102.4	102.0	102.2	98.2	109.1
90.0	91.8	96.7	100.6	102.6	102.0	101.8	97.9	108.8
95.0	91.3	96.2	100.3	101.8	102.6	101.7	97.6	108.5
100.0	90.8	95.3	99.8	101.6	102.2	101.2	97.1	108.1
105.0	89.8	95.0	98.5	101.8	102.6	101.5	97.3	108.3
110.0	90.2	94.9	99.0	101.2	102.0	101.1	96.9	107.9
115.0	89.5	93.6	98.0	100.4	102.0	100.8	96.2	107.6

MODEL THRUST = 107.500 FULL SCALE THRUST = 20000.000

L=	PHOT	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 36.7	73.3	146.6	293.3	586.5	1173.0	2389.4	4818.8	9164.3	18328.6	36657.2
5765.6	88.8	88.7	82.3	75.68	78.81	76.73	71.28	63.64	52.98	35.51	8.11	-44.96	-129.88
4389.7	89.3	89.2	86.9	78.96	82.69	80.91	76.83	69.42	59.13	45.87	22.49	-17.28	-91.61
3549.3	88.9	88.7	88.5	78.14	84.72	84.07	78.83	72.75	63.88	51.65	32.28	-.65	-52.68
3888.8	91.5	91.2	93.0	78.65	86.98	86.28	81.89	76.33	68.19	57.38	40.03	12.75	-32.28
2819.2	92.5	92.1	94.9	77.69	86.25	85.78	83.14	78.82	72.15	63.82	49.91	21.22	-18.35
2537.6	93.8	93.5	94.9	75.27	82.77	85.53	84.29	80.37	73.75	66.67	51.84	28.69	-8.96
2121.3	94.6	93.9	88.5	74.29	80.68	84.47	84.31	81.46	76.23	68.26	55.59	35.88	2.36
1998.1	94.5	93.8	89.3	73.55	79.28	83.98	84.48	82.26	76.83	69.71	56.79	37.55	7.17
1831.2	94.8	93.7	88.9	72.68	78.68	82.76	83.89	82.49	77.66	70.27	58.43	39.76	12.14
1732.1	94.9	93.8	88.9	72.83	78.28	82.64	83.65	82.88	78.01	71.07	59.78	41.61	16.28
1655.1	94.7	93.6	88.9	72.81	77.98	81.98	83.33	82.95	78.61	72.14	61.69	44.87	18.73
1598.3	94.6	93.3	88.2	72.92	78.01	81.78	82.99	83.16	78.93	72.79	62.92	45.78	20.46
1552.9	94.6	93.4	88.8	72.81	77.36	81.22	82.31	81.68	79.25	73.88	63.81	47.13	22.42
1523.1	94.9	93.8	87.8	72.96	77.62	81.01	81.95	81.11	78.87	73.96	64.03	48.29	22.18
1505.7	94.2	93.0	87.7	72.28	76.84	80.76	81.43	81.59	79.36	74.13	64.27	48.78	22.73
1488.0	94.0	92.8	87.4	71.23	76.41	80.23	81.02	81.55	79.81	74.82	64.99	48.55	22.57
1485.7	93.7	92.5	87.1	70.96	76.02	79.68	81.21	81.45	79.92	74.88	65.22	48.13	22.68
1573.1	93.1	91.9	86.6	70.37	76.48	79.24	80.91	80.80	79.33	74.82	65.08	48.75	23.05
1552.9	93.2	92.0	86.5	69.27	76.41	78.79	80.89	81.29	78.37	73.76	64.65	46.78	20.87
1549.5	92.8	91.5	85.9	68.38	75.88	78.84	80.83	81.24	78.37	73.76	64.65	46.78	20.87
1638.1	91.8	90.7	85.1	67.38	72.23	78.88	78.96	80.03	76.88	68.73	58.19	41.46	19.32

RUN NUMBER	= 408.00 (823.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 528.000
SECONDARY TEMPERATURE (R)	= 527.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 1.000
VELOCITY RATIO	= .695
PRIMARY VELOCITY (FT/SEC)	= 896.091
MASS FLOW RATIO	= .634
PRIMARY MASS FLOW (LB/SEC)	= .203
THRUST (LBS)	= 8.153
ENVIRONMENTAL TEMPERATURE (R)	= 519.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 72.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .025
INSTRUMENTATION NOISE FLOOR (DB)	= 57.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.26226E-01	128.6
500	1.00171E-02	110.0
1000	5.40461E-02	117.3
2000	1.82412E-01	122.6
4000	2.14123E-01	123.3
8000	1.65419E-01	122.2
16000	7.47425E-02	118.7
31500	2.54666E-02	114.1

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	159.5
20000	162.5
40000	165.5
80000	168.5

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	89.8	97.3	102.1	99.5	92.5	83.2	77.4	105.2
20.0	88.3	96.5	101.6	99.7	94.1	85.6	79.0	105.0
25.0	87.3	95.2	100.3	99.5	95.6	88.0	80.8	104.5
30.0	85.1	93.3	98.7	99.1	96.7	90.4	83.3	103.8
35.0	83.4	91.1	96.7	98.1	96.8	91.9	85.5	102.9
40.0	81.2	89.0	94.6	96.6	96.2	92.4	86.9	101.7
45.0	80.7	87.5	93.6	95.7	95.5	92.3	87.4	101.0
50.0	79.3	86.0	92.2	94.4	94.3	91.7	86.7	99.8
55.0	77.9	85.4	91.2	93.8	93.9	91.3	86.5	99.2
60.0	78.5	84.9	90.5	93.0	93.2	90.8	86.3	98.6
65.0	78.5	84.7	90.0	92.3	92.5	89.9	85.6	97.9
70.0	78.0	83.9	89.5	91.6	91.8	89.1	84.8	97.2
75.0	77.7	84.1	88.8	91.1	91.2	88.7	84.6	96.7
80.0	77.1	83.6	88.6	90.7	90.8	88.4	84.4	96.4
85.0	76.7	82.9	88.1	90.2	90.3	87.7	83.4	95.8
90.0	76.8	82.7	88.0	89.7	90.1	87.5	83.5	95.6
95.0	76.3	82.3	87.1	89.2	89.4	86.7	83.0	94.9
100.0	76.0	82.1	86.7	88.9	89.2	86.5	82.8	94.6
105.0	75.5	81.1	86.4	88.5	88.9	86.1	82.4	94.2
110.0	74.5	80.7	85.9	87.8	88.0	85.6	82.1	93.6
115.0	74.1	80.2	85.9	87.6	87.9	85.4	82.1	93.4

MODEL THRUST = 8.153 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 10.1	20.2	40.4	80.8	161.5	323.0	636.0	1272.0	2523.8	5047.5	10095.0
5795.6	78.7(78.0)	84.3	68.99	76.46	81.22	78.55	71.24	60.85	52.43	42.93	25.77	-5.95	-61.35
4385.7	82.5(81.6)	86.6	69.95	78.12	83.15	81.23	75.32	66.06	57.45	49.53	35.82	11.08	-31.58
3549.3	85.4(84.2)	87.8	70.76	78.61	83.73	82.89	78.71	70.52	61.74	54.76	43.09	22.50	-12.59
3000.0	87.9(86.3)	88.6	69.97	78.18	83.55	83.92	81.34	74.48	66.05	59.69	49.36	31.49	1.36
2615.2	89.6(87.6)	88.8	69.56	77.21	82.82	84.17	82.66	77.36	69.73	63.80	54.41	38.45	11.80
2333.6	90.4(88.0)	88.6	68.29	76.05	81.72	83.67	83.10	78.92	72.27	66.66	57.96	43.39	19.29
2121.3	91.1(88.3)	88.7	68.63	75.39	81.50	83.55	83.23	79.69	73.82	68.44	60.26	46.75	24.57
1955.1	91.5(88.1)	88.3	67.90	74.65	80.81	82.97	82.75	79.77	73.90	68.70	60.92	48.22	27.51
1821.2	91.3(88.3)	88.3	67.86	74.63	80.34	82.97	82.99	80.01	74.40	69.35	61.87	49.80	30.24
1732.1	91.5(88.3)	88.2	68.22	74.54	80.19	82.62	82.77	80.04	74.78	69.84	62.61	51.02	32.36
1655.1	91.2(87.9)	87.9	68.61	74.80	80.02	82.36	82.41	79.57	74.49	69.63	62.59	51.39	33.42
1594.3	90.8(87.5)	87.5	68.39	74.27	79.87	81.99	82.09	79.12	74.04	69.25	62.35	51.44	34.00
1552.9	90.6(87.3)	87.3	68.35	74.73	79.43	81.70	81.71	78.93	74.09	69.35	62.56	51.86	34.82
1523.1	90.5(87.1)	87.1	67.93	74.45	79.41	81.49	81.49	78.82	74.06	69.35	62.63	52.09	35.31
1505.7	89.9(86.5)	86.6	67.56	73.83	79.01	81.03	81.06	78.19	73.24	68.55	61.87	51.41	34.79
1500.0	89.8(86.4)	86.4	67.75	73.82	78.89	80.64	80.92	78.03	73.40	68.71	62.05	51.62	35.05
1505.7	89.1(85.6)	85.8	67.23	73.24	78.04	80.02	80.22	77.24	72.65	68.17	61.49	51.03	34.41
1523.1	88.7(85.2)	85.4	66.79	72.87	77.53	79.62	79.88	76.92	72.48	67.77	61.05	50.50	33.73
1552.9	88.0(84.6)	84.8	66.09	71.73	77.06	79.09	79.37	76.30	71.88	67.14	60.34	49.65	32.61
1594.3	87.2(83.7)	83.9	64.87	71.07	76.31	78.13	78.39	75.57	71.32	66.53	59.64	48.72	31.29
1655.1	86.7(83.2)	83.4	64.13	70.32	75.59	77.61	77.81	75.08	70.97	66.11	59.07	47.87	29.90

RUN NUMBER	= 409.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 526.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 1.000
VELOCITY RATIO	= .999
PRIMARY VELOCITY (FT/SEC)	= 894.392
MASS FLOW RATIO	= 1.044
PRIMARY MASS FLOW (LB/SEC)	= .203
THRUST (LBS)	= 11.540
ENVIRONMENTAL TEMPERATURE (R)	= 519.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .009
INSTRUMENTATION NOISE FLOOR (DB)	= 48.567

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.36605E-01	121.4
500	1.51378E-03	101.8
1000	8.48664E-03	109.3
2000	2.66416E-02	114.3
4000	9.74476E-02	119.7
8000	3.07328E-02	114.9
16000	2.08691E-02	113.2
31500	1.11131E-02	110.5

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	150.7
20000	153.7
40000	156.8
80000	159.8

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	81.5	88.5	92.4	89.7	85.1	79.6	76.1	96.0
20.0	80.4	87.6	92.0	93.2	86.3	81.3	77.2	97.0
25.0	78.7	86.4	91.4	90.9	87.4	82.7	78.4	95.9
30.0	77.3	87.3	90.0	91.1	88.8	84.4	80.2	96.0
35.0	75.3	83.0	88.6	90.0	88.8	85.4	81.1	95.0
40.0	73.3	80.9	87.0	89.2	88.7	86.0	81.9	94.4
45.0	72.0	80.4	85.9	88.1	87.6	85.6	82.1	93.5
50.0	71.3	78.1	84.9	87.3	86.9	85.4	82.5	92.9
55.0	70.8	77.8	84.1	86.3	86.5	85.0	82.1	92.2
60.0	70.5	77.4	83.2	85.7	85.8	84.6	82.1	91.7
65.0	69.5	76.7	82.9	85.4	85.5	84.4	82.0	91.4
70.0	69.6	76.2	81.8	84.6	85.0	83.9	81.6	90.8
75.0	69.4	75.6	81.8	84.2	84.3	83.4	81.1	90.3
80.0	68.8	75.1	81.0	83.8	84.0	83.2	80.9	89.9
85.0	68.8	74.7	80.6	83.1	83.6	82.6	80.6	89.4
90.0	68.3	74.3	79.9	82.5	83.2	82.3	80.1	89.0
95.0	67.8	74.1	79.7	81.9	83.1	82.4	80.3	88.9
100.0	67.6	74.2	79.1	81.3	82.6	82.1	80.1	88.4
105.0	66.8	73.0	78.5	81.2	82.3	81.8	79.8	88.1
110.0	66.4	72.7	78.0	80.8	82.1	81.8	79.7	87.9
115.0	65.7	71.3	77.1	79.9	81.6	81.7	80.0	87.5

MODEL THRUST = 11.540 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 12.0	24.0	48.0	96.1	192.2	384.3	756.7	1513.3	3002.6	6005.2	12010.4
5795.6	68.9 (67.8)	73.5	59.17	66.12	70.04	67.22	62.08	55.32	48.45	37.45	17.43	-19.28	-82.25
4389.7	74.9 (73.2)	78.9	60.91	67.72	72.08	73.19	69.88	59.89	53.31	44.28	28.38	-6.13	-78.52
3549.3	76.5 (74.9)	77.7	60.69	68.31	73.29	72.71	68.93	63.41	57.09	49.19	35.76	12.12	-27.61
3030.0	79.8 (77.8)	77.2	60.74	70.69	73.37	74.40	71.89	66.80	60.82	53.67	41.86	21.41	-12.63
2615.2	81.2 (78.9)	79.4	59.86	67.59	73.18	74.47	73.14	69.09	63.27	56.66	45.98	27.77	-2.29
2333.6	82.5 (79.8)	79.7	58.92	66.45	72.56	74.70	73.99	70.80	65.34	59.12	49.26	32.69	5.54
2121.3	83.1 (80.2)	79.7	58.39	66.79	72.32	74.43	73.75	71.28	66.62	60.69	51.46	36.12	11.17
1958.1	83.7 (80.5)	79.8	59.38	65.20	72.03	74.36	73.83	71.80	67.81	62.11	53.36	38.97	15.71
1831.2	84.0 (80.7)	79.7	58.30	65.53	71.74	73.89	73.95	72.09	68.11	62.59	54.21	40.56	18.61
1732.1	84.2 (80.7)	79.6	58.67	65.52	71.37	73.79	73.75	72.20	68.69	63.30	55.21	42.13	21.21
1655.1	84.5 (80.9)	79.8	58.68	65.22	71.44	73.91	73.92	72.36	69.10	63.82	55.96	43.33	23.20
1596.3	84.4 (80.7)	79.5	58.52	65.04	70.71	73.47	73.71	72.25	69.05	63.84	56.16	43.87	24.35
1552.9	84.2 (80.5)	79.3	58.50	64.69	70.91	73.30	73.21	72.00	68.83	63.68	56.12	44.09	25.02
1523.1	84.1 (80.3)	79.1	58.13	64.36	70.29	73.03	73.08	71.96	68.79	63.69	56.22	44.36	25.59
1505.7	83.7 (79.9)	78.7	57.94	64.09	70.02	72.46	72.80	71.43	68.41	63.53	56.11	44.35	25.77
1500.0	83.4 (79.5)	78.2	57.68	63.74	69.34	71.96	72.41	71.26	68.15	63.08	55.67	43.95	25.42
1505.7	83.4 (79.5)	78.1	57.19	63.47	69.12	71.29	72.30	71.31	68.36	63.28	55.86	44.10	25.52
1523.1	82.9 (79.0)	77.5	56.93	63.53	68.38	70.58	71.67	70.87	67.99	62.89	55.42	43.56	24.88
1552.9	82.4 (78.5)	77.0	55.92	62.07	67.63	70.29	71.24	70.43	67.54	62.39	54.83	42.80	23.73
1596.3	81.9 (78.1)	76.6	55.32	61.59	66.88	69.63	70.81	70.17	67.12	61.92	54.23	41.95	22.43
1655.1	81.4 (77.6)	75.8	54.23	59.90	65.65	68.39	70.02	69.75	67.02	61.74	53.88	41.25	21.12

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 410.000
PRIMARY TEMPERATURE (R)	= 4.100
SECONDARY TEMPERATURE (R)	= 527.000
PRIMARY PRESSURE RATIO	= 526.000
AREA RATIO	= 1.600
VELOCITY RATIO	= 1.000
PRIMARY VELOCITY (FT/SEC)	= 1.149
MASS FLOW RATIO	= 895.242
PRIMARY MASS FLOW (LB/SEC)	= 1.282
THRUST (LBS)	= .202
ENVIRONMENTAL TEMPERATURE (R)	= 13.854
ENVIRONMENTAL PRESSURE (IN.HG)	= 519.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.470
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 72.000
INSTRUMENTATION NOISE FLOOR (DB)	= .011
	= 56.564

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.63493E-01	124.2
500	2.28431E-03	103.6
1000	1.16248E-02	110.7
2000	3.87708E-02	115.9
4000	6.54241E-02	118.2
8000	6.61708E-02	118.2
16000	4.96367E-02	117.0
31500	2.99766E-02	114.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	152.8
20000	155.8
40000	158.8
80000	161.8

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	83.3	90.5	93.6	92.2	90.2	85.7	81.1	98.3
20.0	82.0	89.8	93.5	93.5	91.4	87.0	82.0	98.8
25.0	81.0	88.3	92.8	93.6	91.8	87.6	83.3	98.6
30.0	78.8	86.3	91.8	93.3	92.1	88.3	84.3	98.2
35.0	77.1	84.5	90.4	92.7	92.4	89.1	85.2	97.9
40.0	75.2	82.4	88.8	91.8	91.7	89.4	85.9	97.2
45.0	73.6	81.2	87.6	90.8	91.1	89.4	86.6	96.6
50.0	72.7	80.1	86.6	89.9	90.4	89.0	86.6	95.9
55.0	72.7	79.3	85.9	89.1	89.7	88.5	86.1	95.2
60.0	72.8	78.9	85.3	88.6	88.9	88.1	86.1	94.7
65.0	72.3	77.9	84.3	87.7	88.4	87.4	85.4	94.0
70.0	71.5	77.5	83.9	87.2	87.9	87.4	85.5	93.7
75.0	70.8	77.1	83.3	86.6	87.3	86.9	85.4	93.3
80.0	70.5	76.8	83.1	86.0	86.8	86.7	84.7	92.8
85.0	70.1	76.4	82.0	85.5	86.5	86.4	84.7	92.4
90.0	69.6	75.8	81.5	85.1	86.2	86.3	84.7	92.2
95.0	69.3	75.5	81.0	84.4	86.1	86.3	85.0	92.0
100.0	68.8	75.3	80.8	83.9	86.0	86.4	84.9	91.9
105.0	68.6	74.7	80.2	83.9	85.0	86.1	84.6	91.9
110.0	67.4	73.9	79.6	83.7	85.4	86.0	84.2	91.3
115.0	67.4	73.0	78.8	82.8	85.2	86.4	84.8	91.4

MODEL THRUST = 13.854 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE 13.2	BAND 26.3	SOUND 52.6	PRESSURE 105.3	LEVELS 210.6	421.1	829.1	1658.1	3289.9	6579.8	13159.6
5795.6	73.1(72.1)	74.9	60.17	67.35	70.42	68.85	66.34	60.34	52.01	40.10	18.39	-21.19	-88.40
4385.7	77.5(76.3)	77.8	61.34	69.09	72.80	72.62	70.16	64.61	56.78	47.04	29.88	-.80	-52.39
3549.3	80.4(78.8)	79.5	62.11	69.46	73.02	74.57	72.47	67.34	60.81	52.36	37.90	12.50	-29.83
3000.0	82.6(80.6)	80.5	61.46	68.92	74.33	75.74	74.31	69.71	63.84	56.23	43.54	21.61	-14.63
2615.2	84.3(82.0)	81.3	60.93	68.29	74.19	76.19	75.83	71.84	66.24	59.22	47.78	28.27	-3.71
2333.6	85.2(82.6)	81.6	60.03	67.16	73.53	76.49	76.19	73.29	68.26	61.67	51.14	33.41	4.55
2121.3	86.2(83.2)	81.8	59.19	66.86	73.23	76.33	76.42	74.18	70.06	63.80	53.95	37.56	11.06
1958.1	86.8(83.4)	81.9	59.03	66.46	72.91	76.17	76.45	74.51	70.89	64.88	55.56	40.20	15.50
1831.2	86.8(83.5)	81.8	59.61	66.19	72.73	75.89	76.33	74.64	71.09	65.28	56.36	41.81	18.52
1732.1	87.1(83.6)	81.8	60.21	66.27	72.70	75.88	76.02	74.79	71.68	66.02	57.42	43.49	21.30
1655.1	86.9(83.3)	81.5	60.03	65.67	72.03	75.40	75.93	74.54	71.48	65.93	57.59	44.14	22.81
1596.3	87.2(83.5)	81.5	59.60	65.58	71.98	75.23	75.75	74.85	71.98	66.53	58.38	45.30	24.61
1552.9	87.1(83.3)	81.3	59.16	65.47	71.61	74.86	75.45	74.65	72.14	66.75	58.74	45.93	25.73
1523.1	86.9(83.1)	81.0	59.05	65.34	71.53	74.42	75.08	74.61	71.80	66.76	58.35	45.73	25.86
1505.7	86.8(82.9)	80.8	58.70	64.99	70.55	74.04	74.87	74.46	71.72	66.41	58.55	46.04	26.36
1500.0	86.6(82.7)	80.5	58.26	64.45	70.16	73.62	74.60	74.33	71.81	66.50	58.66	46.19	26.57
1505.7	86.6(82.6)	80.4	57.90	64.08	69.57	72.95	74.21	74.32	72.00	66.69	58.83	46.32	26.64
1523.1	86.4(82.4)	80.1	57.29	63.80	69.26	72.31	74.29	74.25	71.75	66.40	58.49	45.87	26.00
1552.9	86.0(82.1)	80.0	56.96	62.99	68.49	74.19	73.16	73.87	71.36	65.97	57.96	45.16	24.95
1596.3	85.3(81.4)	79.1	55.54	61.95	67.47	71.69	73.23	73.51	70.68	65.23	57.07	44.00	23.31
1655.1	85.2(81.2)	78.8	55.23	60.76	66.69	70.50	72.74	73.58	70.89	65.34	57.00	43.55	22.22

RUN NUMBER	= 411.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 525.000
SECONDARY TEMPERATURE (R)	= 527.000
PRIMARY PRESSURE RATIO	= 1.800
AREA RATIO	= 2.007
VELOCITY RATIO	= .347
PRIMARY VELOCITY (FT/SEC)	= 893.542
MASS FLOW RATIO	= .554
PRIMARY MASS FLOW (LB/SEC)	= .212
THRUST (LBS)	= 7.004
ENVIRONMENTAL TEMPERATURE (R)	= 519.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 72.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .006
INSTRUMENTATION NOISE FLOOR (DB)	= 45.566

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.20093E-02	117.9
500	5.35654E-04	97.3
1000	2.83333E-03	104.5
2000	1.18474E-02	110.7
4000	1.68716E-02	112.3
8000	1.55283E-02	111.9
16000	9.75250E-03	109.9
31500	4.58052E-03	106.6

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	149.5
20000	152.5
40000	155.5
80000	158.5

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	76.3	84.3	90.2	88.4	81.6	74.3	69.6	93.5
20.0	75.5	83.5	90.0	89.0	83.7	77.1	71.5	93.7
25.0	73.6	82.0	88.4	88.9	85.3	79.8	74.3	93.2
30.0	72.2	80.2	86.6	88.1	86.2	81.5	76.4	92.6
35.0	71.2	78.5	85.1	87.2	86.7	83.3	78.3	92.3
40.0	69.0	76.4	83.0	85.7	85.9	83.5	79.2	91.2
45.0	67.4	74.7	81.1	84.2	85.1	83.3	79.2	90.2
50.0	67.0	73.2	79.9	83.0	83.9	82.3	78.8	89.1
55.0	66.4	72.7	79.1	82.1	83.3	82.0	79.0	88.6
60.0	65.7	72.3	78.4	81.7	82.7	81.5	78.6	88.0
65.0	65.7	71.9	77.8	80.8	82.1	80.8	77.9	87.4
70.0	65.5	71.9	77.5	80.4	81.6	80.4	77.4	87.0
75.0	65.1	71.5	77.1	80.3	81.2	80.1	77.2	86.7
80.0	65.3	70.8	76.6	79.6	80.7	79.6	76.8	86.1
85.0	65.1	70.7	76.0	79.1	80.5	79.3	76.6	85.8
90.0	64.3	70.4	75.8	78.9	80.2	78.7	76.2	85.4
95.0	64.3	69.9	75.3	78.3	79.7	78.4	76.0	85.0
100.0	63.6	69.9	75.0	77.8	79.4	78.3	75.8	84.7
105.0	63.6	69.5	74.7	77.5	78.8	77.9	75.5	84.3
110.0	62.7	69.0	74.5	77.1	78.1	77.1	74.7	83.7
115.0	62.5	67.8	74.3	77.0	78.1	76.7	74.6	83.5

MODEL THRUST = 7.004 FULL SCALE THRUST = 20000.000

L+	PNDB+	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 9.4	18.7	37.4	74.9	149.7	299.4	589.5	1178.9	2339.2	4678.3	9356.6
5795.6	65.8(64.7)	73.2	56.16	64.10	70.05	68.14	61.06	52.78	45.73	36.81	20.77	-8.96	-61.26
4385.7	70.7(69.3)	75.9	57.75	65.74	72.20	71.19	65.68	58.32	50.96	43.48	30.62	7.39	-32.92
3549.3	74.5(72.7)	77.2	57.74	66.12	72.47	72.93	69.11	63.12	56.14	49.51	38.53	19.16	-14.83
3000.0	77.2(75.0)	78.0	57.77	65.74	72.19	73.58	71.50	66.36	60.00	53.93	44.19	27.35	-1.17
2615.2	79.7(77.0)	78.9	57.97	65.31	71.83	73.90	73.30	69.49	63.43	57.76	48.88	33.82	8.57
2333.6	80.9(77.8)	78.8	56.73	64.13	70.76	73.39	73.51	70.75	65.45	60.07	51.82	38.06	15.28
2121.3	81.5(78.1)	78.6	55.96	63.26	69.69	72.70	73.53	71.39	66.47	61.30	53.53	40.75	19.70
1958.1	81.4(77.8)	78.2	56.29	62.44	69.19	72.26	72.98	71.12	66.80	61.80	54.48	42.37	22.71
1831.7	81.9(78.1)	78.3	56.24	62.56	68.98	71.91	72.98	71.46	67.68	62.81	55.69	44.24	25.66
1732.1	82.0(78.1)	78.3	56.04	62.63	68.71	71.97	72.93	71.39	67.80	63.03	56.13	45.15	27.41
1655.1	81.8(77.8)	78.0	56.43	62.66	68.58	71.49	72.71	71.16	67.57	62.88	56.15	45.52	28.44
1596.3	81.8(77.8)	77.9	56.60	62.98	68.55	71.43	72.55	71.09	67.44	62.81	56.22	45.85	29.27
1552.9	81.8(77.7)	77.9	56.40	62.76	68.35	71.58	72.38	71.08	67.52	62.93	56.44	46.27	30.06
1523.1	81.9(77.9)	77.9	56.72	62.29	68.09	71.06	72.06	70.88	67.31	62.76	56.33	46.31	30.35
1505.7	81.4(77.1)	77.3	56.67	62.30	67.60	70.65	71.90	70.52	67.22	62.69	56.30	46.35	30.55
1500.0	80.9(76.6)	77.0	55.90	61.99	67.42	70.44	71.63	69.90	66.84	62.31	55.94	46.02	30.26
1505.7	80.5(76.2)	76.5	55.87	61.42	66.90	69.79	71.18	69.59	66.59	62.05	55.67	45.72	29.91
1523.1	80.2(75.9)	76.2	55.07	61.41	66.46	69.22	70.79	69.39	66.26	61.70	55.28	45.25	29.29
1552.9	79.6(75.4)	75.6	54.91	60.77	66.00	68.73	70.01	68.88	65.86	61.26	54.76	44.60	28.39
1598.3	78.9(74.3)	74.7	53.71	60.03	65.52	68.11	69.07	67.75	64.77	60.14	53.55	43.19	26.61
1655.1	77.8(73.6)	74.2	53.19	58.49	65.08	67.67	68.75	67.03	64.25	59.56	52.84	42.28	25.12

RUN NUMBER	= 412.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 528.000
SECONDARY TEMPERATURE (R)	= 527.000
PRIMARY PRESSURE RATIO	= 1.680
AREA RATIO	= 2.007
VELOCITY RATIO	= .695
PRIMARY VELOCITY (FT/SEC)	= 896.091
MASS FLOW RATIO	= 1.266
PRIMARY MASS FLOW (LB/SEC)	= .218
THRUST (LBS)	= 11.421
ENVIRONMENTAL TEMPERATURE (R)	= 519.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .007
INSTRUMENTATION NOISE FLOOR (DB)	= 46.605

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.01868E-01	120.1
500	1.22385E-03	100.9
1000	7.68534E-03	108.9
2000	2.30934E-02	113.7
4000	2.76433E-02	114.4
8000	2.25200E-02	113.5
16000	1.32750E-02	111.2
31500	5.82699E-03	107.7

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	149.5
20000	152.5
40000	155.5
80000	158.5

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	79.5	90.5	91.0	87.4	79.9	73.0	70.9	94.9
20.0	78.5	86.4	91.2	89.1	81.6	74.1	70.9	94.5
25.0	77.7	85.4	91.0	89.9	84.1	76.9	72.9	94.7
30.0	75.8	84.4	89.9	89.9	86.5	80.3	75.3	94.5
35.0	73.9	82.3	88.2	89.2	87.3	82.7	77.3	93.9
40.0	72.6	80.7	86.6	88.0	87.1	83.9	78.9	93.1
45.0	71.4	79.5	85.2	87.0	86.8	83.9	79.4	92.6
50.0	70.7	78.1	84.2	85.9	86.1	84.1	80.0	91.7
55.0	69.9	77.5	83.5	85.3	85.5	83.7	79.9	91.2
60.0	69.5	77.1	82.8	84.7	85.1	83.6	80.2	90.8
65.0	69.7	76.7	82.2	84.0	84.5	82.8	79.5	90.1
70.0	69.3	76.0	81.4	83.4	83.8	82.3	79.0	89.5
75.0	71.1	75.8	81.4	83.0	83.1	81.9	78.7	89.1
80.0	69.1	75.3	80.8	82.7	82.9	81.5	78.3	88.7
85.0	80.5	74.9	80.1	82.1	82.6	81.4	78.5	88.4
90.0	68.2	74.5	79.7	81.7	82.3	80.7	77.3	87.9
95.0	67.7	74.1	79.2	81.1	81.9	80.3	77.1	87.6
100.0	66.4	73.6	79.0	80.9	81.7	80.3	77.3	87.3
105.0	66.4	73.1	78.7	80.5	80.9	79.5	76.6	86.7
110.0	66.0	72.1	78.3	80.4	80.9	79.2	76.4	86.5
115.0	65.7	71.2	77.6	80.1	80.7	78.6	75.9	86.1

MODEL THRUST = 11.421 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	11.9	OCTAVE 23.9	BAND 47.8	SOUND 95.6	PRESSURE 191.2	LEVELS 382.3	752.7	1505.5	2987.1	5974.2	11948.3
5795.6	65.0(64.1)	72.6	57.25	68.18	68.64	64.94	56.54	48.77	42.47	31.52	11.59	-24.96	-87.70
4385.7	69.5(68.4)	74.6	58.63	68.58	71.35	69.09	61.24	52.77	47.11	38.09	22.28	-6.11	-54.32
3549.3	73.3(71.9)	76.6	59.66	67.42	72.97	71.74	65.71	57.67	51.67	43.80	30.43	8.89	-32.70
3000.0	76.8(75.1)	77.8	59.24	67.82	73.27	73.27	69.63	62.73	55.98	48.87	37.10	16.74	-17.19
2615.2	79.1(77.0)	78.4	58.59	66.92	72.84	73.74	71.61	66.44	59.59	53.00	42.36	24.22	-5.73
2333.6	80.5(78.0)	78.6	58.24	66.37	72.24	73.56	72.47	68.72	62.30	56.18	46.36	29.85	2.80
2121.3	81.3(78.6)	78.6	57.91	65.98	71.66	73.36	72.98	69.68	63.92	58.01	48.81	33.53	8.67
1958.1	82.2(79.2)	78.7	57.83	65.29	71.30	72.99	73.08	70.56	65.41	59.72	51.00	36.66	13.48
1831.2	82.5(79.4)	78.7	57.65	65.28	71.18	72.95	73.00	70.83	66.00	60.49	52.14	38.56	16.66
1732.1	83.0(79.7)	78.8	57.73	65.32	71.05	72.84	73.09	71.20	66.83	61.46	53.40	40.37	19.52
1655.1	82.8(79.4)	78.6	58.33	65.29	70.81	72.56	72.89	70.83	66.61	61.34	53.50	40.92	20.86
1596.3	82.6(79.1)	78.3	58.23	64.91	70.35	72.24	72.51	70.68	66.47	61.28	53.62	41.37	21.92
1552.9	82.5(79.0)	78.2	60.28	64.99	70.56	72.10	72.12	70.52	66.45	61.32	53.78	41.79	22.79
1523.1	82.3(78.8)	77.9	58.43	64.67	70.08	71.94	72.07	70.30	66.28	61.19	53.74	41.92	23.22
1505.7	82.4(78.7)	77.7	57.96	64.31	69.55	71.51	71.86	70.34	66.58	61.51	54.11	42.40	23.88
1500.0	81.6(78.0)	77.2	57.64	63.98	69.14	71.10	71.57	69.64	65.43	60.37	52.99	41.31	22.85
1505.7	81.1(77.5)	76.7	57.11	63.56	68.60	70.45	71.17	69.19	65.10	60.11	52.71	41.00	22.48
1523.1	81.0(77.4)	76.5	55.78	62.94	68.29	70.22	70.82	69.12	65.28	60.19	52.74	40.92	22.22
1552.9	80.0(76.4)	75.7	55.61	62.28	67.83	69.57	69.91	68.10	64.35	59.21	51.68	39.69	20.68
1596.3	79.5(75.9)	75.3	54.92	61.06	67.20	69.30	69.63	67.62	63.83	58.64	50.98	38.74	19.29
1655.1	78.6(75.0)	74.5	54.29	59.78	66.23	68.61	69.13	66.64	63.06	57.79	49.96	37.37	17.31

RUN NUMBER	= 413.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 529.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 2.007
VELOCITY RATIO	= 1.001
PRIMARY VELOCITY (FT/SEC)	= 896.939
MASS FLOW RATIO	= 2.123
PRIMARY MASS FLOW (LB/SEC)	= .220
THRUST (LBS)	= 19.149
ENVIRONMENTAL TEMPERATURE (R)	= 519.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .011
INSTRUMENTATION NOISE FLOOR (DB)	= 50.564

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.86475E-01	125.9
500	3.51588E-03	105.5
1000	2.01986E-02	113.1
2000	7.90529E-02	119.0
4000	1.14983E-01	120.6
8000	9.29699E-02	119.7
16000	5.32316E-02	117.3
31500	2.25233E-02	113.5

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	153.0
20000	156.1
40000	159.1
80000	162.1

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	84.3	91.2	94.8	92.1	97.8	80.7	75.0	98.0
20.0	83.1	90.8	94.4	93.4	88.3	81.3	76.1	98.6
25.0	82.2	89.8	94.8	94.4	89.3	82.7	78.1	99.0
30.0	80.8	88.4	94.6	95.5	91.2	84.7	80.1	99.4
35.0	79.1	87.2	93.6	95.2	92.8	87.1	81.6	99.4
40.0	77.0	85.6	92.4	94.6	92.9	88.3	83.0	98.9
45.0	76.0	84.8	91.5	93.7	93.0	90.0	85.0	98.7
50.0	75.2	83.2	90.6	92.8	92.0	89.6	85.6	97.9
55.0	74.7	82.9	89.8	92.0	91.4	89.7	86.1	97.4
60.0	74.2	82.5	89.3	91.4	91.3	89.4	85.5	97.0
65.0	74.3	81.5	88.8	90.8	90.5	89.0	85.8	96.5
70.0	73.9	81.5	88.1	90.4	89.9	88.4	85.4	95.9
75.0	73.8	81.0	87.6	89.4	89.4	88.0	84.5	95.3
80.0	73.8	80.5	87.1	89.4	89.0	87.4	84.2	94.9
85.0	73.4	80.0	86.3	88.9	89.0	87.3	83.9	94.6
90.0	73.2	79.6	86.1	88.6	89.0	87.4	83.7	94.5
95.0	72.0	79.1	85.2	88.2	88.8	87.1	83.4	94.1
100.0	71.1	78.6	84.5	87.6	88.4	86.9	83.3	93.7
105.0	70.3	77.8	84.3	87.3	88.2	86.7	83.4	93.5
110.0	69.8	76.9	83.8	79.6	87.8	86.2	82.9	92.1
115.0	69.9	75.6	82.4	80.4	87.8	85.6	82.2	92.5

MODEL THRUST = 19.149 FULL SCALE THRUST = 20000.000

LS	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 15.5	30.9	61.9	123.8	247.5	495.1	974.7	1949.4	3867.8	7735.6	15471.3
5795.6	69.3(68.7)	73.3	59.74	66.64	69.36	67.23	61.65	53.31	43.03	29.31	4.28	-40.82	-115.97
4380.7	73.7(72.9)	76.3	61.02	68.72	72.21	71.08	65.50	57.09	48.37	37.25	17.58	-17.27	-76.88
3549.3	77.3(76.2)	78.6	61.96	69.50	74.50	73.98	68.41	60.72	53.22	43.66	27.17	-1.61	-48.80
3000.0	80.4(79.2)	80.4	61.99	69.59	75.55	76.52	71.91	64.38	57.40	48.85	34.44	9.65	-30.78
2615.2	83.0(81.6)	81.5	61.52	69.63	75.72	77.49	74.79	68.14	60.57	52.74	39.79	17.80	-17.76
2333.6	84.4(82.7)	82.0	60.38	69.02	75.78	77.82	75.84	70.52	63.37	56.06	44.19	24.24	-7.82
2121.3	85.9(83.8)	82.6	60.18	68.79	75.69	77.85	76.85	73.12	66.44	59.51	48.45	30.04	-.63
1958.1	86.2(83.8)	82.5	60.07	68.14	75.68	77.80	76.55	73.56	67.97	61.35	50.90	33.68	6.38
1831.2	86.7(84.0)	82.5	60.21	68.39	75.26	77.43	76.55	74.27	69.22	62.83	52.87	36.57	10.77
1732.1	87.0(84.2)	82.6	60.14	68.50	75.22	77.28	76.97	74.51	69.28	63.08	53.50	37.92	13.35
1655.1	87.1(84.1)	82.5	60.63	67.87	75.17	77.06	76.62	74.58	70.03	63.97	54.68	39.66	16.05
1596.3	87.0(83.9)	82.3	60.56	68.14	74.79	76.99	76.32	74.32	70.04	64.09	55.02	40.42	17.55
1552.9	86.6(83.5)	81.9	60.70	67.89	74.46	76.29	76.07	74.10	69.61	63.54	54.63	40.35	18.02
1523.1	86.4(83.3)	81.8	60.87	67.63	74.18	76.40	75.79	73.74	69.37	63.35	54.76	40.70	18.73
1504.7	86.3(83.2)	81.5	60.56	67.18	73.45	75.98	75.89	73.76	69.18	63.40	54.67	40.74	18.99
1500.0	86.3(83.2)	81.6	60.38	66.84	73.35	75.76	75.97	73.83	69.01	63.26	54.54	40.64	18.97
1505.7	85.9(82.8)	81.0	59.20	66.31	72.41	75.27	75.74	73.55	68.65	62.86	54.14	40.20	18.45
1521.1	85.5(82.3)	80.5	58.20	65.68	71.82	74.52	75.27	73.26	68.41	62.60	53.81	39.74	17.78
1552.9	84.1(81.9)	80.1	57.76	64.75	71.17	74.17	74.86	72.83	68.32	62.45	53.54	39.26	16.93
1598.3	83.7(80.4)	78.3	56.48	63.80	70.46	66.10	74.25	72.11	67.91	61.96	52.49	37.90	15.02
1655.1	83.4(80.4)	78.5	56.32	61.94	68.72	72.64	73.90	71.17	66.65	60.39	51.10	36.07	12.47

RUN NUMBER	=	411.00 (756.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	4.100
PRIMARY TEMPERATURE (R)	=	527.000
SECONDARY TEMPERATURE (R)	=	529.000
PRIMARY PRESSURE RATIO	=	1.600
AREA RATIO	=	2.007
VELOCITY RATIO	=	1.151
PRIMARY VELOCITY (FT/SEC)	=	895.242
MASS FLOW RATIO	=	2.592
PRIMARY MASS FLOW (LB/SEC)	=	.217
THRUST (LBS)	=	23.789
ENVIRONMENTAL TEMPERATURE (R)	=	519.500
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	=	70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	=	.020
INSTRUMENTATION NOISE FLOOR (DB)	=	55.600

SOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	9.65986E-01	129.6
500	6.56562E-03	108.2
1000	3.70132E-02	115.7
2000	1.49036E-01	121.7
4000	2.75374E-01	124.4
8000	2.40323E-01	123.8
16000	1.36597E-01	121.4
31500	6.10974E-02	117.9

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	155.8
20000	158.8
40000	161.8
80000	164.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	86.9	93.7	96.0	96.1	92.5	85.9	80.4	101.2
20.0	86.5	93.4	97.1	97.1	93.8	86.7	81.3	102.0
25.0	86.8	92.9	97.7	98.0	95.3	88.6	83.5	102.7
30.0	83.7	91.7	97.2	99.6	96.2	89.9	85.1	103.1
35.0	81.9	90.1	96.4	99.5	97.2	91.5	86.3	103.2
40.0	80.2	88.1	95.6	97.7	97.7	92.9	87.5	102.7
45.0	78.6	87.0	94.5	97.8	97.2	93.7	88.6	102.5
50.0	77.8	86.1	93.5	96.5	96.2	94.0	89.8	101.7
55.0	76.7	85.0	92.3	95.8	95.3	93.8	90.4	101.0
60.0	76.5	84.8	91.8	95.0	94.8	93.4	90.1	100.5
65.0	77.2	84.3	91.2	94.6	94.2	92.7	89.5	100.0
70.0	76.8	83.4	90.6	94.1	93.6	92.2	89.6	99.5
75.0	76.1	82.8	90.0	93.6	93.2	91.7	88.7	99.0
80.0	76.0	83.1	89.8	93.2	92.9	91.5	88.3	98.7
85.0	75.9	82.5	89.2	92.8	92.9	91.4	88.4	98.4
90.0	74.8	81.8	88.5	92.0	92.7	91.0	87.7	97.9
95.0	74.7	81.6	87.8	91.5	92.5	91.1	87.8	97.7
100.0	73.8	80.9	87.5	91.0	92.4	91.3	88.2	97.6
105.0	72.9	79.9	87.0	90.7	91.9	90.9	88.1	97.2
110.0	72.5	79.0	86.3	90.6	91.5	90.3	87.3	96.7
115.0	72.1	77.8	85.3	90.1	91.9	90.0	87.3	96.6

MODEL THRUST = 23.989 FULL SCALE THRUST = 20000.000

L.P	PNDB.		OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 17.3	34.6	69.3	138.5	277.1	554.1	1090.9	2181.9	4329.1	8658.3	17316.6
5795.6	73.4(	72.9)	75.3	61.41	66.20	70.40	70.20	66.80	56.98	46.16	30.99	3.39	-45.88	-126.88
4385.7	77.0(	77.1)	78.6	63.39	70.26	73.98	73.75	69.82	61.00	51.63	39.42	17.80	-20.21	-82.24
3549.1	81.6(	80.7)	81.2	63.54	71.67	76.40	76.63	73.35	65.27	56.94	46.49	28.42	-2.92	-53.69
3000.0	84.4(	83.2)	83.0	63.94	71.91	77.37	79.08	76.85	68.41	60.82	51.53	35.79	8.84	-34.54
2615.3	86.7(	85.3)	84.3	63.31	71.56	77.78	80.52	78.08	71.37	63.01	55.32	41.21	17.33	-20.86
2333.0	88.2(	86.6)	84.7	62.60	70.52	77.97	79.96	79.64	73.94	66.41	58.51	45.60	23.97	-10.44
2121.1	89.2(	87.3)	85.3	61.85	70.19	77.70	80.07	80.00	75.69	68.65	61.20	49.19	29.26	-2.29
1958.1	89.8(	87.4)	85.2	61.68	70.05	77.44	80.34	79.68	76.81	70.76	63.65	52.33	33.70	4.35
1831.2	89.9(	87.3)	85.1	61.18	69.63	76.81	80.17	79.43	77.19	72.17	65.33	54.55	36.93	9.29
1732.1	90.0(	87.4)	85.0	61.54	69.75	76.75	79.90	79.41	77.37	72.49	65.85	56.50	38.67	12.36
1655.1	90.0(	87.2)	84.9	62.66	69.66	76.60	79.67	79.24	77.10	72.43	65.96	56.93	39.72	14.44
1596.3	90.0(	87.1)	84.8	62.50	69.14	76.78	79.74	78.99	76.98	72.09	66.53	56.76	41.01	16.53
1552.9	89.7(	86.8)	84.6	62.09	68.74	76.94	79.47	78.82	76.78	72.32	66.06	56.47	41.07	17.17
1523.1	89.6(	86.7)	84.4	62.12	69.24	75.84	79.25	78.70	76.70	72.15	65.96	56.49	41.33	17.83
1505.7	89.7(	86.7)	84.3	62.08	68.74	76.35	79.03	78.83	76.72	72.33	66.17	56.78	41.76	18.49
1500.0	89.2(	86.3)	83.8	61.68	68.65	74.75	78.26	78.66	76.34	71.74	65.59	56.22	41.25	18.06
1504.7	89.0(	86.0)	83.5	60.88	67.79	73.94	77.50	78.43	76.41	71.76	65.60	56.20	41.18	17.92
1523.1	88.9(	85.8)	83.2	59.94	66.97	73.58	77.03	78.19	76.47	72.04	65.84	56.38	41.22	17.72
1552.9	88.3(	85.2)	82.7	58.84	66.83	72.87	76.58	77.96	75.90	71.71	65.48	55.86	40.46	16.56
1596.3	87.6(	84.6)	82.0	58.19	64.71	71.96	76.19	76.91	75.16	70.86	64.21	54.63	38.69	14.21
1655.1	87.0(	84.1)	81.4	57.45	63.17	70.63	35.37	76.98	74.45	70.22	63.75	53.72	37.51	12.23

RUN NUMBER	= 415.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 516.000
SECONDARY TEMPERATURE (R)	= 517.000
PRIMARY PRESSURE RATIO	= 1.660
AREA RATIO	= 4.856
VELOCITY RATIO	= .347
PRIMARY VELOCITY (FT/SEC)	= 885.850
MASS FLOW RATIO	= 1.536
PRIMARY MASS FLOW (LB/SEC)	= .220
THRUST (LBS)	= 9.275
ENVIRONMENTAL TEMPERATURE (R)	= 513.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.530
ENVIRONMENTAL HUMIDITY (PER CENT)	= 75.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .005
INSTRUMENTATION NOISE FLOOR (DB)	= 43.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.73540E-02	114.4
500	5.67718E-04	97.5
1000	2.70183E-03	104.3
2000	7.48527E-03	108.7
4000	7.40395E-03	108.7
8000	5.23567E-03	107.2
16000	2.63524E-03	104.2
31500	1.32449E-03	101.2

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	144.7
20000	147.7
40000	150.7
80000	153.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	76.2	84.0	87.5	89.7	76.1	66.2	66.1	90.6
20.0	74.7	82.6	86.7	84.4	78.3	70.2	67.1	90.2
25.0	73.9	81.7	85.9	84.7	80.5	73.7	69.0	90.0
30.0	72.4	79.9	84.7	84.6	81.9	76.6	71.7	89.6
35.0	71.0	77.8	83.5	83.8	82.5	78.3	73.4	89.0
40.0	69.4	75.8	82.0	82.9	82.1	78.9	74.6	88.3
45.0	68.5	74.9	81.0	81.7	81.4	78.9	75.2	87.5
50.0	68.1	74.4	79.1	80.6	80.1	77.8	74.5	86.2
55.0	67.2	73.1	78.0	79.3	79.1	77.0	73.8	85.2
60.0	66.5	73.1	77.2	78.5	78.1	76.1	73.3	84.4
65.0	66.7	72.1	76.6	77.7	77.3	75.2	72.6	83.6
70.0	66.4	71.9	76.0	76.9	76.6	74.4	71.9	83.0
75.0	66.0	71.6	75.2	76.4	76.0	73.9	71.7	82.4
80.0	65.2	71.0	74.4	75..	75.0	72.8	70.8	81.5
85.0	64.1	70.6	73.9	74.7	74.1	72.0	70.0	80.8
90.0	64.1	70.3	72.9	74.0	73.3	71.0	69.6	80.1
95.0	63.8	69.9	72.6	73.7	73.0	70.9	69.4	79.8
100.0	64.1	69.5	72.9	73.6	72.7	70.7	69.5	79.7
105.0	63.7	69.1	72.3	73.2	72.4	70.1	68.7	79.2
110.0	63.5	68.2	71.7	72.5	71.2	69.0	68.2	78.4
115.0	63.2	67.8	71.3	72.3	71.1	68.4	67.7	78.1

MODEL THRUST = 9.275 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 10.8	21.5	43.1	86.1	172.3	344.6	678.3	1356.7	2691.8	5383.6	10767.2
5795.6	60.3(59.2)	69.1	54.85	62.62	66.12	62.17	54.16	43.20	40.10	30.16	11.99	-21.51	-79.65
4305.7	64.7(63.3)	71.1	55.80	63.63	67.68	65.37	58.95	49.94	44.74	36.42	21.94	-4.14	-48.85
3549.3	68.9(67.2)	72.8	56.81	64.57	68.72	67.46	63.06	55.51	49.11	41.80	29.51	7.83	-28.93
3000.0	72.2(70.2)	73.8	56.79	64.22	69.03	68.90	66.00	60.13	53.66	47.02	36.17	17.38	-14.16
2615.2	74.4(72.0)	74.4	56.57	63.33	69.00	69.26	67.78	63.08	56.88	50.7.	40.86	24.10	-3.78
2333.6	75.9(73.1)	74.6	56.95	62.36	68.55	69.39	68.42	64.73	59.26	53.43	44.32	29.04	3.84
2121.3	76.8(73.8)	74.7	55.85	62.29	68.31	69.03	68.53	65.65	60.91	55.34	46.79	32.62	9.46
1958.1	76.6(73.4)	74.1	56.13	62.43	67.12	68.60	68.01	65.32	61.01	55.64	47.51	34.20	12.58
1831.2	76.5(73.1)	73.7	55.80	61.78	66.67	67.89	67.54	65.07	61.05	56.03	48.03	35.40	14.98
1732.1	76.3(72.8)	73.4	55.59	62.26	66.30	67.54	67.04	64.76	61.07	55.97	48.44	36.32	16.85
1655.1	76.0(72.3)	73.0	56.19	61.58	66.15	67.18	66.65	64.26	60.79	55.78	48.45	36.74	17.99
1596.3	75.6(71.9)	72.7	56.20	61.72	65.79	66.73	66.27	63.76	60.52	55.59	48.41	37.01	18.82
1552.9	75.5(71.6)	72.4	56.12	61.66	65.30	66.43	65.88	63.53	60.61	55.63	48.57	37.39	19.62
1523.1	74.7(70.8)	71.7	55.49	61.20	64.67	65.70	65.08	62.65	59.80	54.96	47.97	36.95	19.48
1505.7	73.9(70.0)	71.0	54.45	60.90	64.21	64.99	64.26	61.87	59.14	54.31	47.37	36.45	19.12
1500.0	73.1(69.0)	70.4	54.48	60.65	63.31	64.37	63.50	60.92	58.82	54.00	47.08	36.18	18.91
1505.7	72.0(68.7)	70.1	54.17	60.26	62.98	64.04	63.16	60.80	58.54	53.72	46.77	35.85	18.53
1523.1	72.6(68.5)	69.9	54.35	59.78	63.12	63.79	62.75	60.52	58.55	53.70	46.72	35.70	18.21
1552.9	71.7(67.7)	69.2	53.76	59.14	62.34	63.20	62.32	59.69	57.59	52.71	45.65	34.47	16.70
1596.3	70.6(66.4)	68.2	53.36	58.09	61.51	62.29	60.88	58.41	56.77	51.83	44.65	33.25	15.07
1655.1	69.7(65.6)	67.6	52.77	57.27	61.00	61.80	60.48	57.40	55.97	50.96	43.63	31.92	13.17

RUN NUMBER	= 418.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 513.000
SECONDARY TEMPERATURE (R)	= 517.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 4.856
VELOCITY RATIO	= .698
PRIMARY VELOCITY (FT/SEC)	= 883.271
MASS FLOW RATIO	= 3.279
PRIMARY MASS FLOW (LB/SEC)	= .220
THRUST (LBS)	= 19.854
ENVIRONMENTAL TEMPERATURE (R)	= 513.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.530
ENVIRONMENTAL HUMIDITY (PER CENT)	= 72.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .008
INSTRUMENTATION NOISE FLOOR (DB)	= 47.532

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	8.099666E-02	119.1
500	3.10138E-03	104.9
1000	1.06676E-02	110.3
2000	2.68099E-02	114.3
4000	2.34655E-02	113.7
8000	9.90831E-03	110.0
16000	4.62332E-03	106.6
31500	2.42062E-03	103.8

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	146.1
20000	149.1
40000	152.1
80000	155.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	84.5	88.1	90.6	85.6	78.4	69.8	68.3	94.0
20.0	83.5	87.7	90.9	87.4	78.9	72.2	69.9	94.3
25.0	81.8	87.3	91.0	88.2	80.7	74.3	71.4	94.4
30.0	79.8	85.7	89.9	88.8	82.8	76.8	73.2	93.9
35.0	78.3	86.4	89.3	88.4	83.4	78.3	74.7	93.7
40.0	77.4	82.5	87.5	87.6	83.5	79.1	75.4	92.3
45.0	75.6	81.7	86.6	86.7	83.3	79.1	75.9	91.6
50.0	74.4	80.6	85.5	85.9	82.4	79.1	75.8	90.7
55.0	73.8	79.3	84.4	85.3	81.8	78.6	75.4	89.9
60.0	73.2	78.7	83.5	84.4	81.5	78.6	75.6	89.3
65.0	72.5	78.3	82.7	83.9	81.2	78.3	75.5	88.8
70.0	72.4	78.0	82.7	83.3	80.6	77.8	74.8	88.3
75.0	72.1	77.2	81.8	82.3	79.8	77.4	74.5	87.6
80.0	72.1	77.0	81.5	81.7	79.3	77.0	74.1	87.1
85.0	71.8	76.7	81.0	81.5	78.7	76.4	74.0	86.7
90.0	71.3	76.1	80.5	80.6	78.6	76.2	73.8	86.2
95.0	70.9	75.6	80.0	80.1	78.0	75.5	73.4	85.7
100.0	70.3	75.3	79.6	79.5	77.6	75.5	73.2	85.3
105.0	70.4	75.1	79.1	79.4	77.5	75.1	73.4	85.1
110.0	69.5	74.9	79.0	79.4	77.2	74.9	73.0	84.9
115.0	69.1	73.7	77.7	78.6	77.2	74.8	72.6	84.2

MODEL THRUST = 19.854 FULL SCALE THRUST = 20000.000

L*	PNDB*	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 15.8	31.5	63.0	126.0	252.1	504.1	992.5	1985.0	3938.4	7876.9	15753.7
5795.6	61.7(61.1)	69.2	59.84	63.41	66.88	60.64	50.73	42.11	35.92	21.97	-3.46	-49.20	-125.28
4386.7	68.7(69.9)	71.9	61.30	65.45	68.57	64.92	55.83	47.77	41.83	30.55	10.57	-24.77	-83.09
3549.3	70.1(69.0)	73.8	61.34	66.83	70.48	67.58	59.64	52.09	46.30	36.60	19.86	-9.32	-57.07
3000.0	72.9(71.5)	74.8	60.82	66.74	70.87	69.64	63.32	56.26	50.30	41.64	27.03	1.90	-38.93
2615.2	74.7(73.1)	75.8	60.51	66.68	71.47	70.49	65.21	59.20	53.50	45.56	32.44	10.15	-25.82
2333.6	75.6(73.8)	75.4	60.67	65.72	70.73	70.65	66.34	61.18	55.58	48.17	36.14	15.93	-14.50
2121.3	76.4(74.3)	75.4	59.65	65.72	70.58	70.62	66.94	62.06	57.16	50.16	38.95	20.30	-9.45
1958.1	76.8(74.3)	75.3	59.12	65.36	70.26	70.51	66.76	62.84	57.98	51.28	40.71	23.26	-6.43
1831.2	76.8(74.3)	75.1	59.16	64.67	69.74	70.55	66.82	62.99	58.35	51.89	41.80	25.30	-4.79
1732.1	77.1(74.5)	74.9	59.06	64.54	69.32	70.16	67.03	63.58	59.16	52.89	43.18	27.41	-2.57
1655.1	77.3(74.5)	74.8	58.75	64.55	68.92	70.01	67.15	63.67	59.66	53.43	44.03	28.82	-1.95
1596.3	77.0(74.2)	74.7	58.91	64.51	69.23	69.76	66.60	63.52	59.25	53.23	44.06	29.28	-1.15
1552.9	76.7(73.8)	74.1	58.89	63.93	68.53	69.00	66.33	63.34	59.23	53.29	44.28	29.83	-1.25
1523.1	76.4(73.5)	73.9	59.06	63.89	68.39	68.56	65.96	63.12	58.98	53.11	44.22	29.98	-1.77
1505.7	76.1(73.0)	73.6	58.81	63.73	68.00	66.43	65.43	62.65	58.99	53.15	44.32	30.22	-2.23
1500.0	75.9(72.8)	73.1	58.39	63.21	67.50	67.54	65.36	62.47	58.92	53.09	44.28	30.22	-2.30
1505.7	75.2(72.1)	72.5	57.98	62.65	66.99	67.02	64.75	61.72	58.40	52.55	43.72	29.62	-1.63
1523.1	74.8(71.6)	72.0	57.27	62.24	66.51	66.37	64.26	61.61	58.15	52.27	43.38	29.14	-1.94
1552.9	74.4(71.3)	71.6	57.21	61.82	65.82	66.12	63.97	61.10	58.06	52.13	43.12	28.67	-1.69
1596.3	73.9(70.7)	71.2	55.90	61.45	65.53	65.84	63.40	60.58	57.39	51.37	42.20	27.42	-1.29
1655.1	73.1(70.0)	70.2	55.31	59.88	63.96	64.74	63.10	60.14	56.60	50.47	41.07	25.86	-1.99

RUN NUMBER	= 417.00 (824.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 517.000
SECONDARY TEMPERATURE (R)	= 528.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 4.856
VELOCITY RATIO	= 1.011
PRIMARY VELOCITY (FT/SEC)	= 866.708
MASS FLOW RATIO	= 5.145
PRIMARY MASS FLOW (LB/SEC)	= .217
THRUST (LBS)	= 36.986
ENVIRONMENTAL TEMPERATURE (R)	= 514.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.530
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .020
INSTRUMENTATION NOISE FLOOR (DB)	= 55.600

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.02333E+00	130.1
500	2.02060E-02	113.1
1000	8.03102E-02	119.0
2000	2.04759E-01	123.1
4000	2.78442E-01	124.4
8000	2.16237E-01	123.3
16000	1.45301E-01	121.6
31500	8.00749E-02	119.0

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	154.4
20000	157.4
40000	160.4
80000	163.5

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	91.0	97.0	97.3	94.5	89.3	85.3	82.3	102.1
20.0	91.5	97.0	98.7	95.9	91.2	87.3	83.9	103.0
25.0	90.2	96.1	98.4	96.8	92.8	89.1	85.7	103.0
30.0	88.5	94.9	98.6	97.7	94.0	90.6	87.1	103.3
35.0	86.9	93.4	97.6	97.8	94.9	91.4	88.2	102.9
40.0	85.2	91.7	96.2	97.1	95.4	92.2	88.9	102.3
45.0	83.8	90.7	95.6	96.8	95.9	93.6	90.4	102.3
50.0	82.4	89.6	94.7	96.6	95.6	93.3	90.3	101.9
55.0	82.0	88.6	94.0	96.0	95.2	93.4	90.8	101.5
60.0	81.8	88.0	93.0	95.3	94.9	92.9	90.3	100.9
65.0	81.0	87.1	92.6	95.1	94.5	93.1	90.6	100.7
70.0	81.2	86.8	92.2	94.5	94.0	92.3	89.9	100.1
75.0	80.6	86.3	91.7	94.3	93.9	92.5	90.0	100.0
80.0	80.3	85.9	91.3	93.9	93.3	92.1	89.3	99.5
85.0	79.8	85.6	90.7	93.8	93.1	92.1	89.6	99.4
90.0	79.8	84.9	90.3	93.1	92.8	91.8	89.5	98.9
95.0	79.0	84.6	89.7	92.9	93.0	91.9	89.3	98.8
100.0	78.3	83.8	89.4	92.4	92.7	91.9	89.9	98.6
105.0	77.4	83.4	88.8	92.4	92.4	91.7	89.8	98.4
110.0	77.3	82.7	89.1	92.1	91.8	91.1	88.7	97.9
115.0	77.0	81.4	88.0	91.7	91.8	90.6	88.5	97.5

MODEL THRUST = 36.986 FULL SCALE THRUST = 20000.000

L.	PNDB,	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 21.5	43.0	86.0	172.0	344.0	688.1	1354.6	2709.2	5375.6	10750.9	21501.9
5795.6	71.6(71.2)	74.3	64.44	69.57	69.80	66.55	60.20	53.28	43.32	24.93	-8.28	-66.35	-159.23
4385.7	76.9(75.9)	77.7	66.97	72.03	73.59	70.83	64.96	58.08	48.19	35.54	9.88	-36.99	-106.00
3549.3	79.9(79.0)	79.5	67.03	72.97	75.22	73.33	68.64	63.13	55.47	43.04	21.54	-15.19	-73.23
3000.0	82.7(81.7)	81.2	66.86	73.29	76.89	75.81	71.52	66.49	59.43	48.48	29.02	-1.89	-51.21
2615.2	84.6(83.2)	82.0	66.40	72.87	77.07	77.12	73.73	68.80	62.48	52.54	35.90	8.05	-35.50
2333.6	85.9(84.4)	82.3	65.75	72.21	76.63	77.38	75.24	70.87	64.75	55.55	40.38	15.21	-23.98
2121.3	87.5(85.7)	83.1	65.13	72.02	76.92	77.98	76.60	73.26	67.49	58.86	44.80	21.64	-14.25
1954.1	88.1(86.2)	83.8	64.62	71.68	76.72	78.42	77.11	73.74	68.47	60.27	47.06	25.46	-7.91
1831.2	88.6(86.5)	83.5	64.66	71.20	76.63	78.46	77.34	74.53	69.74	61.88	49.33	28.93	-2.47
1732.1	88.8(86.6)	83.4	64.93	71.12	76.89	78.28	77.51	74.63	69.99	62.39	50.36	30.90	1.04
1655.1	89.1(86.8)	83.6	64.92	70.59	76.06	78.46	77.56	75.26	70.80	63.40	51.77	33.05	4.38
1596.3	88.9(86.6)	83.6	65.06	70.61	75.98	78.21	77.36	74.88	70.51	63.27	51.95	33.78	6.03
1552.9	89.2(86.8)	83.5	64.67	70.38	75.70	78.23	77.55	75.16	70.97	63.85	52.75	35.00	7.92
1523.1	88.8(86.4)	83.2	64.51	70.13	75.49	78.00	77.71	75.87	73.53	67.40	56.54	39.07	8.45
1506.7	88.9(86.4)	83.1	64.09	69.95	74.97	78.02	77.62	75.25	70.96	63.96	53.11	35.80	9.45
1500.0	88.6(86.0)	82.7	64.12	69.28	74.60	77.35	76.71	74.94	70.86	63.87	53.05	35.80	9.54
1505.7	88.5(86.0)	82.6	63.34	68.93	73.94	77.06	76.92	75.06	70.66	63.67	52.82	35.51	9.16
1523.1	88.3(85.7)	82.2	62.83	68.03	73.57	76.47	76.44	74.88	71.06	64.02	53.09	35.60	8.98
1552.9	87.8(85.2)	81.8	61.47	67.50	72.85	76.33	75.98	74.50	70.74	63.62	52.52	34.76	7.58
1596.3	86.9(84.4)	81.1	61.11	66.48	72.83	75.82	75.13	73.63	69.36	62.12	50.79	32.62	4.87
1655.1	86.1(83.7)	80.3	60.56	64.93	71.67	75.01	74.63	72.81	68.71	61.31	49.66	30.96	2.29

RUN NUMBER	= 418.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 517.000
SECONDARY TEMPERATURE (R)	= 529.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 4.856
VELOCITY RATIO	= 1.162
PRIMARY VELOCITY (FT/SEC)	= 886.708
MASS FLOW RATIO	= 5.981
PRIMARY MASS FLOW (LB/SEC)	= .220
THRUST (LBS)	= 48.158
ENVIRONMENTAL TEMPERATURE (R)	= 514.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.530
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .040
INSTRUMENTATION NOISE FLOOR (DB)	= 61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.96095E+00	134.7
500	5.23040E-02	117.2
1000	2.08600E-01	123.2
2000	5.43837E-01	127.4
4000	7.56504E-01	128.8
8000	6.63846E-01	128.2
16000	4.80765E-01	126.8
31500	2.55092E-01	124.1

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.9
20000	160.9
40000	163.9
80000	166.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	96.7	101.7	102.0	101.4	98.3	92.1	88.5	107.5
20.0	96.3	101.4	103.2	101.9	97.3	92.9	89.6	108.0
25.0	94.4	100.8	103.8	102.9	99.0	94.3	90.4	108.6
30.0	93.0	99.2	103.1	102.7	99.6	96.0	92.6	108.1
35.0	91.3	97.8	102.2	103.0	100.5	97.2	93.8	108.0
40.0	89.4	96.0	100.8	102.4	100.9	98.3	94.9	107.5
45.0	87.5	94.6	99.9	101.6	100.7	98.3	94.9	106.9
50.0	86.3	93.1	98.8	100.7	100.5	98.6	95.8	106.6
55.0	85.7	92.5	97.9	99.9	99.8	98.6	96.0	105.9
60.0	85.3	91.4	97.0	99.2	99.3	98.2	96.0	105.3
65.0	85.0	91.2	96.3	98.6	98.8	97.7	95.7	104.8
70.0	84.2	90.4	95.9	98.3	98.5	97.6	95.4	104.5
75.0	84.0	89.6	95.4	97.9	98.2	96.9	94.8	104.0
80.0	83.7	89.5	94.7	97.6	98.2	97.3	94.6	103.9
85.0	83.1	88.8	94.4	97.1	97.6	96.7	94.5	103.4
90.0	82.8	88.5	94.1	97.0	98.2	97.3	94.3	103.6
95.0	82.4	87.9	93.4	96.2	97.2	96.9	94.1	103.0
100.0	81.8	87.6	92.7	96.0	97.2	97.0	93.9	102.8
105.0	80.8	86.8	92.6	96.1	97.1	97.2	93.7	102.8
110.0	80.5	86.3	92.3	96.0	96.7	96.7	93.5	102.5
115.0	79.8	85.0	91.5	95.7	96.9	96.4	93.4	102.3

MODEL THRUST = 48.158 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 24.5	49.1	98.1	196.3	392.6	785.1	1565.7	3091.4	6133.8	12267.6	24535.2
5795.6	78.1(77.9)	78.4	68.17	73.13	73.30	72.14	65.69	58.00	46.26	28.58	-11.60	-75.44	-175.92
4308.7	82.2(81.7)	81.4	70.15	75.27	76.92	75.33	69.65	62.59	53.14	36.76	7.97	-41.15	-117.91
3549.3	85.5(84.8)	83.7	70.10	76.52	79.38	78.25	73.46	66.66	57.78	43.95	20.08	-20.24	-82.94
3000.0	87.5(86.7)	84.8	70.20	76.38	80.20	79.59	75.78	70.27	62.70	50.54	29.06	-4.64	-58.10
2619.2	89.4(88.3)	85.8	69.68	76.13	80.51	81.07	78.01	73.07	66.07	55.09	36.71	6.21	-40.77
2333.6	90.9(89.5)	86.2	68.78	75.31	80.11	81.55	79.50	75.41	68.78	58.66	41.94	14.48	-27.85
2121.3	91.6(90.1)	86.4	67.72	74.78	80.08	81.54	80.15	76.90	70.11	60.63	45.16	19.86	-18.83
1958.2	92.3(90.6)	86.5	67.16	73.99	79.80	81.37	80.74	77.69	72.13	63.15	48.44	25.05	-10.88
1831.2	92.6(90.8)	86.6	67.22	73.99	79.37	81.20	80.64	78.15	73.20	64.61	50.84	28.59	-5.21
1732.1	92.8(90.8)	86.5	67.24	73.96	78.89	80.93	80.67	78.46	73.87	65.58	52.40	31.19	-.95
1655.1	92.8(90.7)	86.4	67.35	73.86	78.62	80.81	80.54	78.46	74.16	66.11	53.38	32.98	2.16
1596.7	92.9(90.8)	86.4	66.85	73.08	78.55	80.76	80.62	78.64	74.38	66.45	54.07	34.28	4.49
1552.9	92.8(90.6)	86.2	66.87	72.51	78.22	80.64	80.55	78.35	74.05	66.31	54.18	34.85	5.73
1523.1	92.9(90.7)	86.3	66.81	72.62	77.69	80.48	80.39	78.25	74.00	66.43	54.47	35.48	6.66
1505.7	92.8(90.5)	85.9	66.13	71.95	77.56	80.28	80.26	78.41	74.14	66.57	54.71	35.88	7.56
1500.6	92.9(90.7)	86.1	65.99	71.71	77.27	80.03	80.03	78.04	73.99	66.41	54.59	35.82	7.59
1508.7	92.1(89.9)	85.3	65.57	71.11	76.52	79.16	79.90	78.59	73.71	66.12	54.27	35.43	7.11
1523.1	91.9(89.6)	85.1	64.93	70.63	75.78	78.91	79.71	78.58	73.60	65.75	53.80	34.78	6.16
1552.9	91.6(89.4)	84.9	63.72	69.76	75.42	78.83	79.80	78.62	73.98	65.24	53.11	33.78	4.66
1594.1	90.9(88.7)	84.3	63.16	68.99	74.93	78.49	78.84	77.85	73.45	64.53	52.14	32.38	2.91
1655.1	90.4(88.3)	83.7	62.17	67.33	73.78	77.83	78.66	77.19	71.88	63.83	51.10	30.78	-.14

RUN NUMBER	= 414.000
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 517.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 9.700
VELOCITY RATIO	= .349
PRIMARY VELOCITY (FT/SEC)	= 886.700
MASS FLOW RATIO	= 2.942
PRIMARY MASS FLOW (LB/SEC)	= 4.222
THRUST (LBS)	= 12.372
ENVIRONMENTAL TEMPERATURE (R)	= 514.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.530
ENVIRONMENTAL HUMIDITY (PER CENT)	= 73.000
CALIBRATION FACTOR (MV TO DYN/SQ CM)	= .006
INSTRUMENTATION NOISE FLOOR (DB)	= 47.532

Reproduced from best available copy.

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	8.94716E-02	119.5
500	1.72299E-03	102.4
1000	6.53602E-03	108.2
2000	2.01196E-02	113.0
4000	2.56663E-02	114.1
8000	1.99775E-02	113.0
16000	1.10329E-02	110.4
31500	4.61650E-03	106.6

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	148.6
20000	151.6
40000	154.6
80000	157.6

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	81.1	87.0	90.8	87.3	80.3	73.0	69.9	96.0
20.0	79.6	86.2	91.4	89.6	83.9	76.5	71.3	94.9
25.0	78.2	85.6	90.5	88.2	87.6	81.0	75.6	94.7
30.0	78.3	84.3	89.6	89.8	84.1	82.9	77.1	94.9
35.0	76.3	82.1	87.9	88.9	88.2	86.8	79.5	94.8
40.0	74.2	80.4	86.0	87.3	87.5	86.5	79.6	93.0
45.0	73.4	78.7	84.2	85.0	86.5	86.3	80.0	92.0
50.0	73.3	77.8	82.8	84.5	85.1	83.3	79.6	90.8
55.0	71.4	76.9	81.7	83.3	84.1	82.4	78.1	89.7
60.0	70.8	76.4	81.0	82.8	83.4	81.8	78.5	89.1
65.0	71.0	75.5	80.5	82.3	82.1	81.6	78.6	88.7
70.0	70.5	75.5	79.9	81.9	82.5	81.0	78.1	88.2
75.0	70.5	75.3	79.6	81.2	82.0	80.9	77.1	87.1
80.0	70.7	75.3	79.3	80.9	81.4	79.7	76.5	87.2
85.0	69.6	75.2	78.9	80.6	80.8	79.4	76.6	86.8
90.0	69.0	74.6	78.6	80.1	80.3	78.4	75.5	86.3
95.0	69.3	74.5	78.1	79.5	79.7	78.1	76.0	85.8
100.0	69.2	73.1	77.6	79.1	79.2	77.6	76.0	85.2
105.0	67.2	72.7	77.1	78.6	78.7	76.8	74.3	84.7
110.0	67.1	72.1	76.7	78.2	78.0	75.9	73.6	84.1
115.0	66.6	70.8	76.2	77.7	77.5	76.4	72.8	83.5

MODEL THRUST = 12.372 FULL SCALE THRUST = 20000.000

L*	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 12.5	25.0	50.0	100.0	200.0	400.0	800.0	1600.0	3150.0	6250.0	12500.0
8795.4	86.5	83.7	71.2	58.69	66.17	66.16	66.42	59.95	48.35	40.73	34.39	8.74	-29.88	-93.61
4398.7	78.1	80.2	74.5	60.63	66.61	71.15	74.32	61.22	54.64	46.95	37.56	21.18	-8.16	-37.73
3519.7	77.1	79.0	70.2	59.81	67.25	72.11	69.67	67.36	52.00	53.87	45.57	31.76	7.66	-33.25
3000.0	78.2	78.5	77.8	61.62	67.61	72.72	73.42	70.88	66.01	57.36	51.33	37.69	10.88	-17.88
2639.8	80.1	78.0	74.3	60.60	66.35	72.17	74.29	72.22	65.13	61.10	54.92	43.55	20.88	-5.92
2333.4	77.7	77.1	74.3	60.68	66.44	71.67	73.96	72.06	64.91	60.58	55.25	46.16	29.13	11.36
2121.3	81.1	76.5	77.4	59.60	66.06	70.11	72.47	72.38	64.76	60.84	54.80	46.56	32.81	7.27
1940.1	81.1	76.1	77.3	60.12	66.60	69.66	71.35	71.78	64.52	60.33	54.69	46.82	34.27	10.97
1831.2	81.1	77.8	76.9	58.81	66.26	69.22	70.96	71.28	64.28	60.24	54.12	50.56	36.55	14.18
1732.1	81.0	77.7	76.8	58.72	66.26	69.08	70.69	71.10	64.28	60.24	54.05	50.97	37.58	16.18
1655.1	81.3	77.8	76.8	58.31	66.25	69.26	70.67	71.15	64.26	60.27	54.09	51.65	38.32	17.13
1584.3	81.1	77.8	75.8	58.12	66.20	69.26	70.67	71.14	64.26	60.27	54.09	52.00	39.02	17.98
1522.6	81.0	78.3	76.8	58.38	66.17	69.17	70.69	71.01	64.24	60.21	54.09	51.69	39.17	19.07
1523.1	81.0	78.0	76.1	58.73	66.35	69.27	70.67	71.11	64.25	61.06	54.13	51.15	37.01	19.43
1465.7	81.2	78.8	75.8	58.89	66.27	69.28	70.65	71.15	64.21	60.71	54.08	51.26	39.22	20.53
1420.0	81.1	78.3	76.2	58.10	66.26	69.26	70.66	71.11	64.27	60.27	54.09	50.89	39.49	19.58
1408.7	81.1	78.3	76.7	58.63	66.26	69.26	70.67	71.11	64.26	60.27	54.11	50.73	39.49	19.58
1321.1	81.1	78.1	76.1	57.10	66.11	69.20	70.61	71.06	64.25	60.15	54.14	49.32	37.18	18.58
1292.6	81.1	78.4	76.6	58.36	66.15	69.20	70.61	71.06	64.25	60.15	54.12	49.12	36.88	18.58
1204.1	81.3	78.7	75.5	59.05	66.17	69.21	70.64	71.02	63.99	60.08	53.11	47.25	34.67	16.71
1054.1	79.3	81.4	71.0	60.71	66.11	69.08	69.47	69.16	63.75	59.93	50.16	46.18	33.17	12.99

RUN NUMBER	= 420.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 517.000
SECONDARY TEMPERATURE (R)	= 531.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 9.788
VELOCITY RATIO	= .705
PRIMARY VELOCITY (FT/SEC)	= 886.708
MASS FLOW RATIO	= 6.116
PRIMARY MASS FLOW (LB/SEC)	= .220
THRUST (LBS)	= 32.183
ENVIRONMENTAL TEMPERATURE (R)	= 515.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.510
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .014
INSTRUMENTATION NOISE FLOOR (DB)	= 52.025

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.344896E-01	125.2
500	1.180416E-02	110.7
1000	5.087555E-02	117.1
2000	8.998431E-02	119.5
4000	8.125206E-02	119.1
8000	5.839061E-02	117.7
16000	3.035541E-02	114.8
31500	1.196906E-02	110.8

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL (DB)
10000	150.2
20000	153.2
40000	156.2
80000	159.2

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	89.1	93.1	93.8	90.4	93.7	76.9	73.6	98.0
20.0	88.2	93.5	95.0	90.3	86.5	78.5	74.2	98.8
25.0	87.5	92.9	95.9	92.7	87.4	82.3	78.4	99.6
30.0	86.4	97.2	95.9	93.4	88.7	83.7	79.9	100.6
35.0	86.7	90.6	94.2	93.2	90.4	85.1	81.4	99.0
40.0	83.3	90.5	93.1	92.0	91.6	84.1	83.7	98.6
45.0	82.1	88.1	91.8	91.6	90.7	87.1	85.6	97.8
50.0	81.0	86.9	90.5	91.2	90.2	86.9	87.3	96.8
55.0	80.2	85.5	89.5	90.3	88.6	87.1	87.8	96.0
60.0	78.9	84.7	88.9	89.8	89.2	86.8	87.8	95.6
65.0	78.8	84.6	88.6	89.3	88.8	86.9	87.6	95.2
70.0	78.5	84.2	88.6	89.1	88.7	86.6	87.7	95.1
75.0	78.1	83.8	87.9	88.6	88.2	86.2	87.7	94.8
80.0	78.0	83.4	87.8	88.2	87.6	85.6	87.1	94.3
85.0	77.4	83.6	87.7	87.8	87.1	84.7	86.2	93.9
90.0	77.5	83.1	88.4	87.8	86.8	84.4	84.8	93.3
95.0	76.6	82.4	86.5	87.1	86.2	83.5	83.8	92.8
100.0	76.1	81.8	86.4	86.6	85.8	82.9	82.8	92.4
105.0	75.6	81.8	86.0	85.8	85.0	82.2	81.8	91.9
110.0	74.9	79.8	85.3	85.0	84.5	82.1	80.8	91.5
115.0	74.1	78.9	84.5	85.5	84.	81.0	79.8	91.0

MODEL THRUST = 32.183 FULL SCALE THRUST = 73808.000

L0	PWOA	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 70.1	90.1	89.2	105.5	324.9	881.8	1211.6	2527.2	5816.2	14938.4	24659.0
8706.4	48.91	85.41	71.8	62.29	64.97	69.45	62.17	64.78	66.87	64.25	59.97	-12.15	-47.68	-156.65
4386.7	78.47	88.81	74.2	61.88	65.13	70.47	65.64	68.86	61.67	63.85	33.85	5.91	-26.83	-166.49
3969.1	75.11	78.31	74.8	66.95	74.03	73.98	69.91	63.05	67.11	66.67	37.72	17.18	-17.65	-79.28
3088.8	74.41	77.01	78.6	65.76	74.14	73.98	72.13	68.47	69.89	69.81	42.68	26.35	-5.62	-61.12
2815.9	80.41	79.71	78.8	66.88	76.23	76.58	73.14	74.18	68.69	66.96	47.73	31.52	5.89	-36.79
2333.6	81.31	79.61	79.3	66.81	76.16	76.98	73.63	73.63	67.67	71.67	51.67	35.89	14.05	-29.18
2121.3	87.21	80.41	79.1	66.41	76.42	77.66	73.77	73.16	67.61	69.87	53.76	38.88	18.08	-19.47
1958.1	82.01	81.81	79.1	67.62	76.44	77.75	73.73	73.38	69.11	69.56	55.55	41.08	24.26	-11.47
1821.9	82.61	80.61	79.0	68.38	76.93	77.47	73.91	73.61	69.76	69.76	56.68	43.98	28.81	-4.34
1732.1	82.91	80.81	79.0	67.83	76.87	77.73	73.35	73.65	69.32	69.91	56.66	44.49	29.81	-2.88
1653.1	83.11	81.31	79.0	67.91	76.94	77.78	73.88	73.78	69.88	69.91	57.03	45.19	31.08	.18
1597.1	83.61	81.21	79.1	67.91	76.94	77.87	73.88	73.78	69.92	69.91	57.27	45.11	32.11	2.66
1552.9	83.21	80.81	79.0	67.93	76.97	77.87	73.81	73.86	69.93	69.91	57.33	45.24	32.47	3.86
1521.1	82.91	80.81	79.0	67.98	76.98	77.88	73.88	73.86	69.93	69.91	57.38	45.28	32.66	3.86
1501.7	82.91	80.71	79.1	67.97	76.98	77.88	73.88	73.87	69.93	69.91	57.38	45.28	32.68	3.76
1480.2	82.11	79.81	79.0	67.88	76.96	77.91	73.86	73.81	69.94	69.91	57.37	45.27	32.58	3.68
1469.7	81.41	79.11	79.0	67.85	76.95	77.91	73.85	73.81	69.94	69.91	57.36	45.26	32.53	3.64
1523.1	81.41	80.71	79.0	68.37	76.97	77.86	73.92	73.82	69.93	69.91	57.38	45.28	32.69	3.78
1552.9	82.21	81.01	79.1	68.13	76.97	77.82	73.98	73.76	69.93	69.91	57.38	45.28	32.73	.78
1598.1	79.21	78.91	79.0	68.19	76.95	77.71	73.96	73.83	69.93	69.91	57.38	45.28	32.68	-1.68
1659.1	78.41	78.91	78.8	68.19	76.92	77.68	73.88	73.86	69.93	69.91	57.38	45.28	32.68	-3.69

RUN NUMBER	= 021.000
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS.)	= 6.100
PRIMARY TEMPERATURE (R)	= 525.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 1.900
AREA RATIO	= 0.748
VELOCITY RATIO	= 1.010
PRIMARY VELOCITY (FT/SEC)	= 893.567
MASS FLOW RATIO	= 0.757
PRIMARY MASS FLOW (LB/SEC)	= .215
THRUST (LBS)	= 64.755
ENVIRONMENTAL TEMPERATURE (R)	= 515.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.510
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (DY TO DY/SQ CM)	= .063
INSTRUMENTATION NOISE FLOOR (DB)	= 65.500

ACOUSTIC POWER AND SOUND POWER LEVEL FOR NOZZLE JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.005902E+00	133.2
500	8.597885E-02	119.3
1000	2.263735E-01	126.5
2000	5.217446E-01	127.2
4000	5.438027E-01	127.4
8000	3.568850E-01	125.5
16000	2.018846E-01	123.1
31500	1.019400E-01	120.1

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	155.1
20000	158.1
40000	161.1
80000	164.1

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.5	102.2	101.1	97.9	92.2	88.8	84.9	108.8
20.0	98.0	102.6	102.1	98.8	94.1	89.1	85.1	107.1
25.0	96.8	102.1	102.9	99.6	96.7	90.3	87.2	107.3
30.0	95.6	101.2	102.6	100.0	95.9	91.6	86.3	107.2
35.0	93.7	99.5	102.1	101.1	97.2	93.2	88.2	108.9
40.0	91.8	97.5	101.3	101.5	98.3	94.9	91.3	109.6
45.0	90.2	96.0	99.9	100.4	98.3	96.0	91.8	109.7
50.0	89.4	94.9	99.2	100.4	98.6	95.3	92.0	109.6
55.0	87.6	93.8	97.8	98.9	98.1	95.0	92.5	109.6
60.0	87.3	93.3	97.5	98.5	97.6	95.2	91.9	109.1
65.0	85.4	91.9	96.2	97.0	96.9	94.4	91.6	108.4
70.0	84.4	91.4	95.9	97.0	96.4	94.3	91.5	108.2
75.0	86.1	90.7	95.1	96.6	95.9	94.3	91.6	107.8
80.0	83.1	89.6	94.7	96.6	94.6	93.5	90.3	107.0
85.0	82.3	89.8	94.3	95.9	93.8	93.0	90.5	106.6
90.0	82.0	89.0	93.8	95.1	93.6	92.8	90.2	106.5
95.0	82.1	89.1	93.4	95.1	93.3	92.8	90.4	106.7
100.0	82.3	89.4	93.4	95.4	93.2	92.2	89.6	106.3
105.0	82.3	87.9	92.8	94.2	93.2	91.9	89.1	105.7
110.0	81.8	87.8	92.5	94.2	93.1	91.9	89.1	105.7
115.0	82.0	86.5	91.8	93.9	93.0	91.6	89.1	105.6

NOZZLE THRUST = 64.755 FULL SCALE THRUST = 20000.000

L.	MACH.	DATA	OCTAVE BAND SOUND PRESSURE LEVELS									
			88.5	94.4	113.4	227.8	455.2	910.4	1820.8	3640.9	7281.8	14563.5
9795.4	74.11	53.91	75.0	68.88	92.46	91.06	87.23	89.79	81.33	59.61	15.83	-27.81
9385.7	75.51	78.21	76.8	72.68	95.46	94.47	90.73	92.76	84.51	63.26	27.03	-44.71
9149.3	81.41	81.21	81.5	77.28	95.03	97.23	93.63	95.59	88.42	91.54	35.88	-9.15
8929.0	84.11	83.71	82.6	78.51	99.28	98.25	96.33	98.49	91.65	95.78	38.58	-14.24
8815.5	84.31	85.61	83.5	78.48	96.63	99.11	97.30	99.18	92.36	96.98	39.07	-16.63
8739.5	87.51	85.41	84.2	81.36	98.49	99.24	98.24	99.33	93.69	97.34	41.49	-17.69
8121.1	88.21	87.11	84.1	83.18	99.45	98.78	96.33	96.69	91.91	94.54	39.79	-8.91
8058.1	89.11	88.01	86.5	84.67	98.46	98.39	96.91	97.39	92.69	95.16	39.85	-14.81
7831.9	89.31	87.91	86.1	83.14	96.01	97.49	96.46	97.65	92.63	95.28	39.25	-17.75
7732.1	89.61	88.61	86.2	87.93	98.11	98.46	97.48	98.48	93.84	96.26	39.35	-18.63
7654.1	89.61	87.91	83.7	87.34	97.43	97.79	96.53	97.95	93.02	95.12	39.49	-19.65
7558.5	90.01	87.71	83.7	87.37	97.60	97.56	96.13	97.13	93.79	94.55	39.91	-22.65
7495.9	90.21	87.61	83.6	87.76	97.36	96.64	96.19	96.43	94.17	94.63	40.19	-23.69
7523.1	89.91	87.31	83.9	86.60	97.19	96.69	97.67	96.52	93.50	94.62	40.28	-25.34
7519.7	89.61	87.01	83.6	85.85	97.16	96.99	97.77	96.27	93.91	94.64	40.33	-25.58
7481.1	89.31	86.61	82.2	85.57	97.10	96.93	97.73	96.15	93.84	94.12	40.04	-25.85
7466.7	89.41	86.31	82.2	85.06	97.15	96.96	97.76	96.26	93.66	94.10	39.88	-25.88
7523.1	87.41	85.41	81.6	83.28	96.32	96.44	97.03	96.08	93.17	94.09	39.87	-24.81
7552.9	86.71	84.31	80.9	81.89	94.49	95.73	96.15	95.34	92.30	93.33	39.78	-23.78
7568.3	85.91	84.01	80.6	81.23	93.95	95.21	95.92	94.94	91.93	92.88	39.62	-23.92
7659.1	85.81	83.31	79.9	80.13	92.43	94.09	94.98	94.08	91.02	92.02	39.36	-23.28

RUN NUMBER	= 422.001
AXIAL POSITION OF PRIMARY NAT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 525.000
SECONDARY TEMPERATURE (R)	= 536.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 0.744
VELOCITY RATIO	= 1.163
PRIMARY VELOCITY (FT/SEC)	= 891.434
MASS FLOW RATIO	= 11.444
PRIMARY MASS FLOW (LB/SEC)	= .217
THRUST (LBS)	= 84.344
ENVIRONMENTAL TEMPERATURE (R)	= 515.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.510
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DYNS/SQ CM)	= .079
INSTRUMENTATION NOISE FLOOR (DB)	= 82.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
			THRUST	POWER LEVEL(DB)
OVERALL	5.757788E+00	137.6	10000	150.1
500	2.289781E-01	123.6	20000	153.2
1000	7.592781E-01	128.8	40000	156.2
2000	1.384495E+00	131.4	80000	159.2
4000	1.385132E+00	131.4		
8000	1.017346E+00	130.1		
16000	4.444504E-01	126.1		
31500	3.639526E-01	125.6		

EXPERIMENTAL DATA

TABLE I SOUND OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND SOUND PRESSURE LEVELS 1000	2000	4000	8000	16000	31500	OVER ALL
15.0	103.3	107.2	106.1	105.7	97.2	93.2	89.5	111.2
20.0	102.5	107.3	104.9	102.9	99.0	93.0	88.9	111.5
25.0	101.5	106.8	103.6	104.3	100.0	94.1	87.5	112.0
30.0	99.0	104.5	103.7	103.1	100.9	96.4	93.9	111.9
35.0	97.7	103.6	104.8	105.6	102.1	98.5	96.1	111.4
40.0	96.6	102.1	105.0	105.3	103.3	99.0	95.2	111.0
45.0	96.0	101.5	104.4	103.9	101.7	97.1	94.2	110.1
50.0	93.3	98.8	103.4	104.9	102.0	98.3	96.2	109.2
55.0	91.9	97.4	101.5	102.4	100.2	98.4	96.7	108.9
60.0	91.8	96.9	100.5	102.2	101.5	99.3	95.5	107.9
65.0	91.0	96.4	99.8	101.5	101.0	98.4	95.7	107.2
70.0	89.5	95.4	99.5	101.1	100.8	97.1	94.1	107.1
75.0	89.2	94.1	97.8	100.4	100.0	98.5	94.3	106.3
80.0	89.0	94.4	96.4	100.2	99.4	98.4	95.4	106.2
85.0	88.7	93.3	97.7	99.5	99.5	97.4	94.9	105.4
90.0	88.5	93.2	97.7	99.5	98.6	98.4	94.3	105.6
95.0	87.5	93.2	96.3	98.6	97.7	96.6	94.5	105.5
100.0	87.6	92.8	96.2	98.6	98.3	98.5	95.3	105.9
105.0	88.2	93.2	95.9	98.4	98.0	98.4	95.3	105.2
110.0	88.8	93.1	96.5	98.4	98.4	98.4	96.9	105.2
115.0	88.0	93.7	96.9	98.9	98.9	98.8	96.8	105.1

MODEL THRUST = 84.344 FULL SCALE THRUST = 25600.884

R.	FREQ.	1250	33.2	2237.5	4475	8950	17900	35800	71600	143200	286400
8785.8	78.11	78.01	79.7	71.95	75.91	74.55	69.40	62.81	53.60	38.35	21.34	+35.99	+110.72	+233.59
8389.7	81.52	81.51	82.3	73.93	75.38	77.38	73.26	64.09	57.55	42.51	24.66	+30.11	+75.89	+183.69
8548.3	79.41	79.31	80.7	74.69	78.75	80.29	76.43	71.12	64.15	53.73	35.03	+9.59	+59.85	+137.35
8311.1	79.31	79.71	80.8	74.13	78.38	77.11	74.10	73.46	64.97	53.59	43.25	16.31	+25.86	+84.46
8815.9	79.71	79.81	80.5	73.67	77.76	77.34	80.96	74.95	64.35	54.15	41.19	24.76	+13.16	+66.37
8733.5	81.41	81.10	82.3	73.73	77.40	77.41	74.43	74.33	72.16	61.34	51.15	30.43	+3.11	+47.77
8121.9	81.51	80.79	82.4	72.19	77.14	81.43	84.20	74.33	73.78	65.71	54.05	39.72	-1.03	+41.36
8696.1	81.91	81.31	82.7	73.45	77.75	81.14	84.20	78.26	78.72	67.71	56.61	39.42	10.89	+37.14
8831.9	82.41	82.01	82.5	73.97	78.57	82.28	85.38	81.20	77.47	67.24	57.47	41.45	14.78	+36.66
8732.1	82.21	82.21	82.3	73.32	78.28	82.13	84.89	79.45	75.54	69.91	54.73	43.48	15.92	+38.09
8655.6	82.11	82.01	82.1	73.23	78.11	82.03	84.79	79.35	75.44	69.81	54.63	43.38	15.82	+37.99
8592.3	82.01	81.91	82.2	73.13	77.99	81.93	84.69	79.25	75.34	69.71	54.53	43.28	15.72	+37.89
8545.8	81.91	81.81	82.1	73.03	77.89	81.83	84.59	79.15	75.24	69.61	54.43	43.18	15.62	+37.79
8523.1	81.81	81.71	82.0	72.93	77.79	81.73	84.49	79.05	75.14	69.51	54.33	43.08	15.52	+37.69
8515.7	81.71	81.61	81.9	72.83	77.69	81.63	84.39	78.95	75.04	69.41	54.23	42.98	15.42	+37.59
8516.1	81.61	81.51	81.8	72.73	77.59	81.53	84.29	78.85	74.94	69.31	54.13	42.88	15.32	+37.49
8519.9	81.51	81.41	81.7	72.63	77.49	81.43	84.19	78.75	74.84	69.21	54.03	42.78	15.22	+37.39
8527.1	81.41	81.31	81.6	72.53	77.39	81.33	84.09	78.65	74.74	69.11	53.93	42.68	15.12	+37.29
8537.9	81.31	81.21	81.5	72.43	77.29	81.23	83.99	78.55	74.64	69.01	53.83	42.58	15.02	+37.19
8552.3	81.21	81.11	81.4	72.33	77.19	81.13	83.89	78.45	74.54	68.91	53.73	42.48	14.92	+37.09
8570.3	81.11	81.01	81.3	72.23	77.09	81.03	83.79	78.35	74.44	68.81	53.63	42.38	14.82	+36.99
8592.0	81.01	80.91	81.2	72.13	76.99	80.93	83.69	78.25	74.34	68.71	53.53	42.28	14.72	+36.89
8617.3	80.91	80.81	81.1	72.03	76.89	80.83	83.59	78.15	74.24	68.61	53.43	42.18	14.62	+36.79
8646.2	80.81	80.71	81.0	71.93	76.79	80.73	83.49	78.05	74.14	68.51	53.33	42.08	14.52	+36.69
8678.8	80.71	80.61	80.9	71.83	76.69	80.63	83.39	77.95	74.04	68.41	53.23	41.98	14.42	+36.59
8715.0	80.61	80.51	80.8	71.73	76.59	80.53	83.29	77.85	73.94	68.31	53.13	41.88	14.32	+36.49
8754.9	80.51	80.41	80.7	71.63	76.49	80.43	83.19	77.75	73.84	68.21	53.03	41.78	14.22	+36.39
8798.5	80.41	80.31	80.6	71.53	76.39	80.33	83.09	77.65	73.74	68.11	52.93	41.68	14.12	+36.29
8845.8	80.31	80.21	80.5	71.43	76.29	80.23	82.99	77.55	73.64	68.01	52.83	41.58	14.02	+36.19

RUN NUMBER	= 423.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 517.000
SECONDARY TEMPERATURE (R)	= 523.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .374
PRIMARY VELOCITY (FT/SEC)	= 1198.455
MASS FLOW RATIO	= .244
PRIMARY MASS FLOW (LB/SEC)	= .345
THRUST (LBS)	= 14.124
ENVIRONMENTAL TEMPERATURE (R)	= 516.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 76.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .040
INSTRUMENTATION NOISE FLOOR (DB)	= 61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.72777E+00	132.4
500	5.34923E-03	107.3
1000	4.00935E-02	116.0
2000	2.35827E-01	123.7
4000	5.23366E-01	127.2
8000	4.86849E-01	126.9
16000	2.85475E-01	124.6
31500	1.50311E-01	121.8

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST.

THRUST	POWER LEVEL(DB)
10000	160.9
20000	163.9
40000	166.9
80000	169.9

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	86.7	96.2	103.1	105.0	101.9	95.1	88.6	108.9
20.0	85.9	95.3	102.9	105.4	103.0	97.3	90.2	109.3
25.0	84.0	93.7	102.0	104.6	102.1	96.7	90.8	108.4
30.0	82.5	92.3	101.0	105.0	102.7	97.7	92.4	108.6
35.0	81.0	90.1	98.6	103.0	102.4	98.0	92.8	107.3
40.0	79.4	88.2	96.7	101.0	101.3	98.4	93.2	106.1
45.0	77.1	86.0	94.1	99.2	100.3	98.0	93.5	104.9
50.0	76.4	84.7	92.3	96.3	98.0	96.9	93.9	103.0
55.0	75.8	83.6	91.0	95.2	97.1	96.5	93.6	102.2
60.0	75.2	82.9	90.0	94.1	95.9	95.7	93.8	101.4
65.0	75.5	82.8	89.6	93.4	95.3	95.0	93.6	100.8
70.0	74.6	82.6	88.9	92.8	94.5	94.3	93.2	100.2
75.0	74.4	82.2	88.5	92.0	94.1	93.8	92.8	99.7
80.0	74.9	81.8	88.1	91.9	93.8	93.4	92.3	99.4
85.0	74.3	81.3	87.6	91.2	93.5	93.0	91.9	99.0
90.0	74.6	80.6	87.0	90.7	93.1	92.8	91.4	98.5
95.0	74.0	80.8	86.8	90.5	93.1	92.5	91.0	98.3
100.0	73.2	80.5	86.0	90.0	92.8	92.2	90.6	98.0
105.0	72.8	79.6	85.5	89.5	92.3	91.8	90.2	97.5
110.0	72.0	79.0	85.5	88.9	91.9	91.3	89.9	97.1
115.0	71.6	77.6	84.9	88.9	91.5	91.0	89.5	96.7

MODEL THRUST = 14.124 FULL SCALE THRUST = 10000.000

L.	PNDB.	OASPL	18.8	OCTAVE 37.6	BAND 75.2	SOUND 150.3	PRESSURE 300.7	LEVELS 601.3	1183.8	2367.7	4697.8	9395.6	18791.1
5795.6	82.1(81.7)	82.0	60.46	69.97	76.81	78.30	74.34	66.04	52.65	36.34	6.72	-45.75	-131.13
4385.7	86.1(85.5)	84.9	62.12	71.54	79.06	81.33	78.18	70.58	59.11	46.04	22.89	-17.54	-82.89
3549.3	87.7(86.8)	86.0	62.00	71.69	79.96	82.41	79.35	72.45	62.87	51.72	32.41	-.88	-54.34
3000.0	90.2(89.0)	87.6	62.03	71.80	80.44	84.25	81.54	75.25	66.93	57.04	40.26	11.65	-33.99
2615.2	91.1(89.7)	87.5	61.67	70.83	79.23	83.48	82.48	77.01	69.17	60.17	45.16	19.83	-20.34
2333.6	91.5(89.7)	87.2	61.14	69.84	78.36	82.55	82.40	78.55	70.96	62.60	48.88	25.96	-10.21
2121.3	91.7(89.6)	86.7	59.65	68.48	76.83	81.56	82.32	79.13	72.52	64.65	51.90	30.80	-2.36
1958.1	91.0(88.5)	85.5	59.59	67.88	75.49	79.41	80.73	78.85	73.85	66.35	54.36	34.64	3.81
1831.2	91.0(88.4)	85.3	59.63	67.44	74.73	78.86	80.50	79.05	74.34	67.14	55.73	37.10	8.07
1732.1	91.1(88.1)	85.0	59.53	67.17	74.29	78.28	79.80	78.87	75.17	68.20	57.24	39.46	11.83
1655.1	91.1(88.0)	84.8	60.22	67.43	74.08	77.92	79.60	78.81	75.52	68.72	58.11	40.99	14.46
1596.3	90.9(87.6)	84.5	59.62	67.61	73.90	77.63	79.11	78.24	75.49	68.83	58.50	41.87	16.18
1552.9	90.8(87.4)	84.3	60.18	67.43	73.68	77.13	78.98	78.02	75.41	68.85	58.71	42.46	17.38
1523.1	90.6(87.3)	84.1	60.34	67.16	73.46	77.20	78.89	77.80	75.15	68.65	58.66	42.66	18.00
1505.7	90.4(86.9)	83.8	59.80	66.60	73.16	76.83	78.63	77.53	74.92	68.46	58.55	42.69	18.29
1508.8	89.9(86.6)	83.6	60.16	66.18	72.97	76.12	78.24	77.35	74.63	67.99	58.10	42.29	17.97
1505.7	89.6(86.3)	83.2	59.46	66.11	72.25	75.91	78.21	77.03	73.99	67.53	57.61	41.76	17.36
1523.1	89.1(85.8)	82.7	58.64	65.27	71.35	75.27	77.66	76.62	73.44	66.94	56.95	40.94	16.29
1552.9	88.6(85.2)	82.1	58.08	64.79	70.65	74.66	77.17	76.00	72.87	66.30	56.17	39.92	14.46
1596.3	87.8(84.4)	81.3	57.01	63.65	70.41	73.91	76.48	75.22	72.19	65.53	55.20	38.57	12.68
1655.1	86.8(83.7)	80.7	56.25	62.10	69.53	73.42	75.61	74.59	71.40	64.80	54.00	36.97	10.34

RUN NUMBER	= 424.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 517.000
SECONDARY TEMPERATURE (R)	= 521.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .720
PRIMARY VELOCITY (FT/SEC)	= 1198.455
MASS FLOW RATIO	= .595
PRIMARY MASS FLOW (LB/SEC)	= .345
THRUST (LBS)	= 18.343
ENVIRONMENTAL TEMPERATURE (R)	= 516.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 76.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .040
INSTRUMENTATION NOISE FLOOR (DB)	= 61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.28976E+00	131.1
500	1.06066E-02	110.3
1000	7.24545E-02	118.6
2000	2.54592E-01	124.1
4000	3.88685E-01	125.9
8000	3.04134E-01	124.8
16000	1.66462E-01	122.2
31500	9.28211E-02	119.7

OVERALL SOUND POWER LEVEL,SCALED FOR;THRUST

THRUST	POWER LEVEL(DB)
10000	158.5
20000	161.5
40000	164.5
80000	167.5

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	90.2	98.1	102.9	103.2	98.6	92.3	87.9	107.6
20.0	89.0	97.7	103.7	103.9	99.2	92.3	88.6	108.2
25.0	87.9	96.6	102.5	103.6	99.4	92.3	89.0	107.6
30.0	86.8	97.5	101.0	102.8	100.0	94.4	90.0	107.1
35.0	84.4	92.7	98.9	101.6	100.0	94.8	90.1	105.8
40.0	82.0	90.2	96.8	99.6	99.5	96.2	91.4	104.7
45.0	80.0	88.0	94.4	97.7	98.1	95.5	91.0	103.1
50.0	78.9	86.4	92.8	96.0	96.8	94.7	91.1	101.9
55.0	78.0	85.2	91.6	94.7	95.6	93.9	90.7	100.8
60.0	77.8	84.3	90.7	93.6	94.6	93.5	91.1	100.1
65.0	77.4	84.1	89.8	92.7	94.2	93.1	91.0	99.6
70.0	76.9	83.9	89.4	92.3	93.7	92.8	91.0	99.2
75.0	77.4	83.5	89.2	91.7	93.0	92.1	91.0	98.7
80.0	76.4	82.3	88.2	90.9	92.1	91.8	90.6	98.1
85.0	76.1	82.2	87.8	90.7	92.0	91.4	90.2	97.8
90.0	75.8	82.1	87.3	90.2	91.6	91.0	89.8	97.4
95.0	75.2	81.3	86.8	89.9	91.5	90.7	89.5	97.1
100.0	75.2	81.1	86.1	89.3	90.9	90.2	89.1	96.6
105.0	74.6	80.6	86.0	89.1	90.7	89.9	88.7	96.3
110.0	74.0	80.3	85.5	88.5	90.0	89.7	88.2	95.8
115.0	73.6	79.2	85.3	88.1	89.9	89.3	88.0	95.5

MODEL THRUST = 18.343 FULL SCALE THRUST = 20000.000

L,	PNDB,	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 15.1	30.3	60.6	121.1	242.3	484.5	954.0	1907.9	3785.5	7571.1	15142.1
5795.6	81.9(81.3)	82.9	65.86	73.72	78.53	78.54	73.25	65.21	56.27	42.80	18.24	-26.09	-100.16
4385.7	85.7(84.8)	86.0	67.07	75.82	81.74	81.74	76.56	68.31	61.14	50.22	30.90	-3.37	-69.16
3549.3	87.7(86.5)	87.2	67.87	76.49	82.42	83.34	78.77	70.50	64.45	55.04	36.84	10.53	-36.00
3000.0	89.7(88.3)	88.2	67.98	78.88	82.38	84.05	80.91	74.33	67.58	59.16	45.00	20.91	-19.18
2615.2	90.7(89.0)	88.1	66.96	75.27	81.43	84.06	82.14	76.07	69.35	61.63	48.90	27.[illegible]	-7.82
2333.6	91.6(89.6)	87.9	65.56	73.76	80.32	83.10	82.71	78.60	72.05	64.83	53.15	33.[illegible]	1.89
2121.3	91.4(89.0)	87.1	64.38	72.40	78.80	81.97	82.18	78.86	72.74	65.91	55.02	36.89	7.88
1950.1	91.3(88.8)	86.8	63.98	71.50	77.86	81.00	81.59	78.86	73.72	67.19	56.90	39.[illegible]	12.[illegible]
1831.2	91.0(88.1)	86.1	63.72	70.86	77.29	80.26	81.01	78.65	74.05	67.74	57.93	41.87	16.41
1732.1	91.2(88.1)	85.8	63.98	70.50	76.86	79.68	80.44	78.78	75.07	68.94	59.50	44.15	19.91
1655.1	91.4(88.1)	85.7	63.92	70.67	76.31	79.18	80.47	78.89	75.48	69.49	60.34	45.53	22.24
1596.3	91.6(88.1)	85.7	63.75	70.75	76.29	79.08	80.32	78.91	75.87	69.99	61.05	46.67	24.09
1552.9	91.4(87.8)	85.5	64.47	70.63	76.31	78.69	79.86	78.47	76.16	70.36	61.58	47.51	25.46
1523.1	91.1(87.4)	85.0	63.65	70.03	75.42	78.12	79.16	78.34	75.95	70.20	61.53	47.67	25.99
1505.7	90.9(87.2)	84.8	63.48	69.58	75.11	78.05	79.10	78.06	75.72	70.00	61.40	47.66	26.20
1500.0	90.5(86.8)	84.4	63.24	69.47	74.71	77.50	78.80	77.69	75.30	69.59	61.01	47.32	25.92
1505.7	90.2(86.5)	84.1	62.63	68.68	74.13	77.22	78.59	77.38	74.97	69.25	60.65	46.91	25.45
1523.1	89.5(85.8)	83.5	62.53	68.42	73.34	76.54	77.95	76.76	74.45	68.70	60.03	46.17	24.49
1552.9	89.0(85.3)	83.0	61.74	67.76	73.07	76.10	77.52	76.27	73.83	68.02	59.25	45.17	23.13
1596.3	88.2(84.6)	82.2	60.83	67.17	72.30	75.30	76.61	75.77	73.09	67.21	58.27	43.89	21.31
1655.1	87.5(84.0)	81.6	60.16	65.72	71.87	74.61	76.22	75.10	72.48	66.49	57.33	42.53	19.23

RUN NUMBER	= 625.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 520.000
SECONDARY TEMPERATURE (R)	= 520.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .850
PRIMARY VELOCITY (FT/SEC)	= 1201.928
MASS FLOW RATIO	= .753
PRIMARY MASS FLOW (LB/SEC)	= .345
THRUST (LBS)	= 21.120
ENVIRONMENTAL TEMPERATURE (R)	= 516.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.450
ENVIRONMENTAL HUMIDITY (PER CENT)	= 76.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .040
INSTRUMENTATION NOISE FLOOR (DB)	= 81.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.42516E+00	131.5
500	1.26128E-02	111.0
1000	9.76722E-02	119.9
2000	2.93154E-01	124.7
4000	4.41220E-01	126.4
8000	3.28731E-01	125.2
16000	1.69357E-01	122.2
31500	8.64164E-02	119.4

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.3
20000	161.3
40000	164.3
80000	167.3

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	91.4	103.4	103.2	102.6	97.9	90.2	88.0	108.5
20.0	89.5	98.2	103.8	103.8	98.8	90.3	88.0	108.1
25.0	88.8	97.7	103.8	104.1	99.2	91.3	88.7	108.2
30.0	86.9	95.5	101.9	103.5	100.2	93.7	90.1	107.4
35.0	84.9	93.3	99.3	102.2	100.3	95.8	90.4	106.3
40.0	82.8	90.2	97.0	100.4	100.0	95.9	91.2	105.1
45.0	80.6	88.7	95.3	98.4	98.5	95.4	91.1	103.8
50.0	79.8	87.2	93.7	97.0	97.6	95.0	91.2	102.6
55.0	78.5	86.0	92.7	95.8	96.3	94.3	91.0	101.5
60.0	78.5	85.7	91.7	94.5	95.7	94.5	91.5	101.0
65.0	78.3	85.1	90.8	93.8	94.6	93.5	90.8	100.1
70.0	77.8	84.6	90.2	92.9	94.0	92.9	90.6	99.5
75.0	77.6	84.0	89.3	92.4	93.2	92.2	90.4	98.9
80.0	78.0	83.9	89.2	92.0	92.8	91.8	90.1	98.6
85.0	78.9	83.4	88.8	91.5	92.4	91.5	89.7	98.1
90.0	76.9	83.0	88.2	91.0	91.9	90.9	89.2	97.6
95.0	76.6	82.6	87.8	90.7	92.1	90.3	88.7	97.3
100.0	76.1	82.1	87.1	90.0	91.4	90.0	88.2	96.8
105.0	75.2	81.8	86.7	89.9	90.7	89.7	87.8	96.4
110.0	74.6	81.0	86.3	89.4	90.5	89.2	87.1	95.9
115.0	74.3	80.3	85.8	89.2	90.1	88.8	86.9	95.6

MODEL THRUST = 21.120 FULL SCALE THRUST = 20000.000

L1	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 16.2	32.5	65.0	130.0	260.0	519.9	1023.6	2047.3	4062.0	8124.1	16248.1
5795.6	81.3(80.7)	83.2	66.44	78.43	78.15	77.29	71.86	62.16	55.05	40.72	14.60	-32.28	-109.95
4389.7	84.9(84.1)	85.3	66.94	75.87	81.19	81.09	75.49	65.41	59.42	47.85	27.35	-8.88	-68.38
3549.3	87.5(86.5)	87.2	68.11	77.00	82.83	83.24	77.83	68.76	63.08	53.14	35.98	6.11	-42.62
3000.0	89.3(88.0)	87.9	67.68	76.24	82.60	84.08	80.43	72.83	66.69	57.82	42.85	17.14	-24.51
2615.2	90.5(89.0)	87.9	66.86	75.23	81.27	84.04	81.74	75.56	68.77	60.66	47.22	24.42	-12.27
2333.6	91.3(89.5)	87.7	65.74	73.14	79.88	83.23	82.56	77.60	70.98	63.42	51.11	30.44	-2.62
2121.3	91.1(89.0)	87.0	64.44	72.49	79.07	82.07	81.87	78.01	71.95	64.80	53.33	34.27	3.94
1958.1	91.3(88.9)	86.7	64.29	71.72	78.19	81.42	81.72	78.41	73.03	66.20	55.39	37.56	9.33
1831.2	91.1(88.4)	86.2	63.93	71.02	77.78	80.55	81.06	78.43	73.54	66.96	56.66	39.79	13.20
1732.1	91.5(88.5)	86.1	64.01	71.22	77.21	79.94	80.97	79.10	74.64	68.25	58.34	42.23	16.92
1655.1	91.1(88.0)	85.6	64.20	71.03	76.70	79.62	80.24	78.56	74.50	68.26	58.66	43.13	18.81
1596.3	91.0(87.7)	85.4	64.08	70.81	76.47	79.10	79.94	78.26	74.64	68.52	59.15	44.07	20.50
1552.9	90.7(87.4)	85.0	64.09	70.69	75.77	78.80	79.46	77.89	74.77	68.73	59.53	44.78	21.77
1523.1	90.6(87.2)	84.8	64.71	70.56	75.87	78.59	79.19	77.65	74.71	68.73	59.65	45.12	22.50
1505.7	90.3(86.9)	84.5	63.65	70.16	75.53	78.13	78.89	77.43	74.37	68.42	59.41	45.02	22.62
1500.0	89.8(86.4)	84.0	63.68	69.81	75.02	77.74	78.44	76.86	73.92	67.98	59.00	44.64	22.32
1505.7	89.4(86.1)	83.7	63.39	69.38	74.33	77.37	78.57	76.25	73.36	67.41	58.40	44.00	21.61
1523.1	88.8(85.4)	83.1	62.77	68.72	73.79	76.62	77.79	75.83	72.79	66.81	57.74	43.21	20.58
1552.9	88.0(84.7)	82.4	61.75	68.26	73.15	76.33	76.94	75.33	72.00	65.96	56.77	42.01	19.00
1596.3	87.2(84.0)	81.8	60.89	67.24	72.92	75.98	75.44	74.57	71.20	65.08	55.71	40.83	17.06
1655.1	86.4(83.2)	81.1	60.24	66.24	71.69	75.06	75.71	73.88	70.55	64.31	54.71	39.18	14.86

RUN NUMBER	= 920.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 520.000
SECONDARY TEMPERATURE (R)	= 520.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .377
PRIMARY VELOCITY (FT/SEC)	= 1201.928
MASS FLOW RATIO	= .545
PRIMARY MASS FLOW (LB/SEC)	= .343
THRUST (LBS)	= 15.541
ENVIRONMENTAL TEMPERATURE (R)	= 516.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.450
ENVIRONMENTAL HUMIDITY (PER CENT)	= 76.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .050
INSTRUMENTATION NOISE FLOOR (DB)	= 63.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.21666E+00	133.5
500	5.59597E-03	107.5
1000	6.15562E-02	116.2
2000	2.55282E-01	124.1
4000	6.03208E-01	127.8
8000	6.69423E-01	128.4
16000	4.13002E-01	126.2
31500	2.08589E-01	123.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	161.5
20000	164.6
40000	167.6
80000	170.6

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	87.3	96.6	103.4	105.2	103.9	99.5	93.6	109.8
20.0	86.1	95.6	103.9	106.5	105.3	100.2	94.5	110.8
25.0	84.8	94.4	102.8	106.0	105.0	100.9	96.1	110.4
30.0	82.9	92.2	101.3	105.7	105.9	101.8	96.2	110.5
35.0	80.8	90.6	99.2	104.1	104.3	100.7	96.3	108.9
40.0	79.1	87.7	96.1	101.1	102.9	100.5	96.7	107.2
45.0	77.5	85.7	93.7	98.9	101.1	99.8	96.2	105.7
50.0	76.8	84.5	92.0	96.7	99.3	98.4	95.3	104.0
55.0	75.6	83.1	90.8	95.1	97.7	97.6	95.5	103.0
60.0	75.2	82.8	90.1	94.0	96.3	96.4	94.9	101.9
65.0	74.4	82.6	89.2	93.6	95.7	95.4	94.4	101.2
70.0	75.6	82.5	88.8	92.9	94.6	94.6	93.7	100.4
75.0	75.2	82.1	88.6	92.5	94.3	94.2	93.1	100.0
80.0	75.2	81.7	88.2	92.0	93.8	93.8	92.5	99.5
85.0	73.6	81.3	87.2	91.1	93.3	93.3	92.0	98.9
90.0	74.4	80.7	87.0	90.4	93.0	93.0	91.4	98.5
95.0	73.6	80.3	86.3	90.2	92.6	92.7	91.0	98.1
100.0	72.6	80.1	85.9	89.5	92.5	92.5	90.3	97.8
105.0	72.1	79.4	85.2	89.0	91.7	91.8	90.0	97.2
110.0	72.1	78.6	85.2	88.4	91.3	91.3	89.5	96.7
115.0	71.5	77.7	84.7	88.6	91.0	91.0	89.0	96.4

MODEL THRUST = 15.541 FULL SCALE THRUST = 20000.000

L*	PNDB*	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS									
			13.9	27.9	55.8	111.5	223.0	446.0	878.1	1755.1	3484.4	6968.8	13937.6
5795.6	86.5(85.7)	85.6	63.74	72.95	79.72	81.34	79.41	73.45	63.50	50.98	28.14	-10.33	-83.31
4285.7	90.7(89.6)	89.1	64.96	74.44	82.64	85.11	83.48	77.10	64.37	58.17	40.16	8.84	-45.64
3549.3	93.0(91.6)	90.6	65.41	75.05	83.45	86.52	85.15	79.99	72.72	63.89	48.74	22.18	-21.83
3000.0	95.3(93.6)	92.1	65.05	74.33	83.35	87.72	87.58	82.59	74.92	66.99	53.72	30.80	-6.86
2615.2	95.5(93.4)	91.8	64.15	73.65	82.47	87.25	87.26	82.93	76.65	69.36	57.41	37.05	3.82
2333.6	95.6(93.1)	91.1	63.40	71.95	80.35	85.30	86.88	83.76	78.34	71.51	60.52	42.03	12.06
2121.3	95.4(92.6)	90.3	62.84	70.86	78.77	83.89	85.89	83.98	79.91	72.43	62.17	45.09	17.57
1958.1	94.9(91.9)	89.4	62.42	70.28	77.82	82.46	84.05	83.34	79.90	72.68	62.98	46.98	21.95
1831.2	95.0(91.6)	88.9	61.98	69.52	77.15	81.45	83.79	83.20	79.81	73.80	64.53	49.38	25.21
1732.1	94.7(91.0)	88.3	62.10	69.68	76.93	80.84	82.89	82.56	79.83	73.98	65.06	50.56	27.54
1655.1	94.4(90.7)	88.1	61.70	69.91	76.47	80.79	82.77	81.95	79.84	74.12	65.45	51.47	29.34
1596.3	94.1(90.2)	87.7	63.18	70.05	76.42	80.42	82.00	81.53	79.49	73.87	65.41	51.81	30.36
1552.9	93.9(90.1)	87.5	63.05	69.93	76.38	80.26	81.93	81.37	79.16	73.60	65.29	51.99	31.03
1523.1	93.8(89.8)	87.2	63.21	69.73	76.15	79.98	81.58	81.13	78.77	73.27	65.05	51.96	31.36
1505.7	93.2(89.3)	86.7	61.65	69.44	75.29	79.16	81.15	80.78	78.44	72.97	64.82	51.82	31.42
1500.0	92.8(89.0)	86.3	62.56	69.46	75.10	78.48	80.88	80.48	77.82	72.35	64.22	51.26	30.93
1505.7	92.4(88.6)	85.9	61.65	68.40	74.34	78.23	80.47	80.16	77.37	71.90	63.75	50.75	30.35
1523.1	91.9(88.1)	85.5	60.59	68.07	73.95	77.42	80.30	79.84	76.61	71.11	62.90	49.78	29.18
1552.9	91.0(87.3)	84.6	59.89	67.19	73.00	76.74	79.31	78.97	76.07	70.52	62.20	48.89	27.95
1596.3	90.3(86.5)	83.9	59.85	66.17	72.76	75.96	78.63	78.23	75.33	69.88	61.22	47.62	26.19
1655.1	89.5(85.8)	83.3	58.78	65.00	72.01	75.83	78.00	77.55	74.42	68.70	60.04	46.05	23.92

RUN NUMBER	= 427.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 520.000
SECONDARY TEMPERATURE (R)	= 520.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .717
PRIMARY VELOCITY (FT/SEC)	= 1201.928
MASS FLOW RATIO	= 1.206
PRIMARY MASS FLOW (LB/SEC)	= .345
THRUST (LBS)	= 24.019
ENVIRONMENTAL TEMPERATURE (R)	= 516.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.450
ENVIRONMENTAL HUMIDITY (PER CENT)	= 76.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .056
INSTRUMENTATION NOISE FLOOR (DB)	= 64.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.11307E+00	134.9
500	1.19502E-02	110.8
1000	7.03363E-02	118.5
2000	3.90802E-01	125.9
4000	8.41636E-01	129.3
8000	9.56353E-01	129.8
16000	5.62448E-01	127.5
31500	2.79543E-01	124.5

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	161.1
20000	164.1
40000	167.1
80000	170.2

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	90.7	87.5	103.4	104.2	103.0	98.8	93.1	109.0
20.0	88.9	97.9	104.6	106.1	105.5	101.2	96.2	111.1
25.0	87.8	97.2	104.0	106.5	106.1	102.6	97.6	111.5
30.0	86.9	95.7	103.7	107.3	107.0	102.5	97.6	111.9
35.0	85.1	94.0	101.9	106.6	106.3	102.5	97.8	111.1
40.0	83.0	91.3	99.4	103.7	104.9	102.3	98.6	109.5
45.0	80.8	88.9	96.5	100.9	102.9	101.2	97.6	107.5
50.0	79.9	87.6	94.9	98.9	100.9	100.0	96.6	105.8
55.0	78.8	86.4	93.5	97.2	99.5	98.6	96.5	104.6
60.0	78.3	85.8	92.6	96.6	98.5	97.8	95.7	103.7
65.0	78.3	85.8	91.6	95.6	97.3	96.8	95.2	102.8
70.0	78.3	85.4	91.6	95.1	96.6	96.1	95.0	102.3
75.0	78.0	85.1	91.1	94.7	96.0	95.7	94.3	101.8
80.0	77.8	84.8	90.8	94.1	95.3	95.2	93.7	101.2
85.0	77.0	84.2	90.0	93.6	94.9	94.7	93.3	100.7
90.0	77.0	83.3	89.6	93.0	94.5	94.3	92.7	100.2
95.0	76.6	83.3	89.1	92.6	94.7	94.0	92.0	100.0
100.0	76.2	83.0	88.7	91.7	94.2	93.4	91.5	99.4
105.0	75.0	82.0	87.8	91.4	93.2	92.8	91.0	98.7
110.0	74.6	81.3	87.9	91.2	92.8	92.6	90.7	98.4
115.0	74.6	80.4	87.3	90.7	93.2	92.2	90.2	98.2

MODEL THRUST = 24.019 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 17.3	34.7	69.3	138.6	277.2	554.5	1091.6	2183.2	4331.8	8663.6	17327.2
5795.6	83.8	83.2	82.7	65.23	61.94	77.75	78.36	76.27	69.90	58.84	43.67	16.05	-33.24	-114.28
4395.7	89.7	88.8	87.3	65.88	74.78	81.61	82.72	81.51	75.57	66.50	54.29	32.66	-5.37	-87.42
3549.3	92.7	91.5	89.6	66.56	75.89	82.74	84.99	84.14	79.28	71.01	60.56	42.48	11.13	-39.66
3000.0	95.0	93.7	91.6	67.07	75.95	83.85	87.37	86.64	80.94	73.30	64.00	48.25	21.20	-22.10
2615.2	96.9	94.3	92.0	69.55	75.42	83.21	87.80	87.18	82.38	75.29	66.79	52.68	28.79	-9.42
2333.6	98.1	94.8	91.2	65.39	73.70	81.72	85.90	86.82	83.30	77.51	69.61	56.69	35.05	.63
2121.3	95.3	93.3	90.1	64.06	72.10	79.72	84.03	85.69	83.15	77.69	70.23	58.22	39.27	6.71
1958.1	94.6	92.0	89.1	63.82	71.49	78.75	82.72	84.44	82.74	77.54	70.42	59.11	40.46	11.10
1831.2	94.3	91.3	88.4	63.35	70.91	77.97	81.56	83.64	82.05	76.25	71.40	60.62	43.00	15.34
1732.1	94.1	91.1	88.1	63.25	70.75	77.55	81.46	83.14	81.74	78.11	71.47	61.11	44.28	17.96
1655.1	93.8	90.6	87.6	63.65	71.15	77.00	80.91	82.38	81.18	78.06	71.59	61.56	45.34	20.05
1596.3	93.7	90.4	87.4	63.96	71.05	77.24	80.66	81.96	80.91	78.32	71.97	62.19	46.44	21.94
1552.9	93.5	90.1	87.2	63.89	71.01	77.01	80.51	81.59	80.71	77.94	71.68	62.08	46.68	22.77
1523.1	93.1	89.7	86.7	63.75	70.73	76.88	80.10	81.05	80.39	77.50	71.30	61.83	46.66	23.16
1505.7	92.8	89.4	86.4	63.18	70.36	76.15	79.70	80.77	80.00	77.28	71.12	61.72	46.69	23.42
1500.0	92.3	88.9	85.9	63.21	69.55	75.81	79.14	80.41	79.75	76.88	70.53	61.15	46.17	22.98
1505.7	91.9	88.6	85.7	62.82	69.52	75.26	78.73	80.60	79.34	75.94	69.78	60.38	45.35	22.08
1523.1	91.2	87.9	85.0	62.35	69.05	74.76	77.75	79.97	78.69	75.28	69.08	59.61	44.44	20.94
1552.9	90.3	87.0	84.1	60.97	67.91	73.69	77.21	78.84	77.86	74.62	68.35	58.76	43.35	19.44
1596.3	89.7	86.4	83.6	60.29	67.03	73.57	76.82	78.18	77.16	73.96	67.60	57.82	42.07	17.58
1655.1	88.9	85.8	83.0	59.97	66.77	72.66	75.96	78.27	76.60	73.08	66.58	56.55	40.33	15.05

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -29.00 (757.00)
PRIMARY TEMPERATURE (R)	= 4.100
SECONDARY TEMPERATURE (R)	= 520.000
PRIMARY PRESSURE RATIO	= 520.000
AREA RATIO	= 2.500
VELOCITY RATIO	= 4.856
PRIMARY VELOCITY (FT/SEC)	= .377
MASS FLOW RATIO	= 1201.928
PRIMARY MASS FLOW (LB/SEC)	= 1.426
THRUST (LBS)	= .345
ENVIRONMENTAL TEMPERATURE (R)	= 19.794
ENVIRONMENTAL PRESSURE (IN.HG)	= 516.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.450
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 76.000
INSTRUMENTATION NOISE FLOOR (DB)	= .025
	= 57.607

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	9.52863E-01	129.8
500	7.02370E-01	108.5
1000	3.77607E-02	115.8
2000	1.41244E-01	121.5
4000	2.31865E-01	123.7
8000	2.26347E-01	123.5
16000	1.80321E-01	122.6
31500	1.28303E-01	121.1

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	156.8
20000	159.8
40000	162.8
80000	165.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
19.0	88.8	95.7	100.0	99.8	92.5	92.6	88.7	104.5
20.0	86.9	95.3	100.3	99.9	94.4	91.8	89.5	104.7
25.0	85.8	93.6	99.6	100.3	95.6	91.6	89.1	104.5
30.0	84.0	92.0	98.5	100.6	97.7	93.0	89.7	104.7
35.0	82.5	90.2	96.9	99.7	98.8	95.2	91.2	104.4
40.0	79.8	87.6	94.4	97.7	98.1	95.8	92.1	103.3
45.0	78.8	85.4	91.9	95.9	97.3	96.2	93.3	102.4
50.0	77.4	84.5	90.7	94.4	96.1	95.6	93.4	101.5
55.0	76.7	83.3	89.2	92.8	94.9	94.9	94.3	100.8
60.0	76.5	82.8	88.8	92.1	94.2	94.0	93.4	100.0
65.0	76.2	82.4	88.2	91.7	93.7	93.7	93.0	99.6
70.0	75.8	82.8	88.1	91.0	92.9	93.2	93.3	99.2
75.0	75.7	81.9	87.2	90.5	92.4	92.5	91.8	98.4
80.0	75.3	81.3	86.6	90.1	91.9	92.2	91.3	97.9
85.0	74.5	80.7	86.1	89.5	91.4	91.8	90.8	97.4
90.0	74.7	80.4	85.5	89.1	91.1	91.4	90.5	97.1
95.0	73.6	79.7	85.2	88.5	91.1	91.0	90.2	96.8
100.0	73.4	79.6	84.5	88.1	90.8	90.6	89.7	96.4
105.0	73.2	78.8	84.1	87.8	90.8	90.2	89.2	96.1
110.0	72.4	77.9	84.0	87.1	89.6	90.0	88.7	95.4
115.0	72.1	77.5	84.0	87.3	89.6	89.6	88.1	95.2

MODEL THRUST = 19.794 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 15.7	31.5	62.9	125.8	251.7	503.4	991.0	1982.0	3932.5	7865.0	15729.9
5795.6	78.2(77.4)	79.4	64.09	71.04	75.27	74.62	66.84	64.97	56.41	42.49	17.09	-28.60	-104.60
4385.7	82.1(80.9)	82.1	66.70	73.08	77.95	77.45	71.36	67.35	61.41	50.14	30.19	-5.11	-63.36
3549.3	84.7(83.4)	83.8	65.32	73.17	79.13	79.74	74.57	69.34	63.98	54.28	37.57	8.42	-39.28
3000.0	87.3(85.8)	85.4	65.03	73.09	79.47	81.93	78.25	72.55	66.79	58.13	43.54	18.44	-22.35
2615.2	89.6(87.7)	86.2	64.79	72.45	79.13	81.81	80.59	76.10	70.03	62.10	49.00	26.73	-9.21
2333.6	90.3(88.0)	86.0	63.00	70.87	77.57	80.84	80.94	77.88	72.31	64.91	52.89	32.70	.30
2121.3	91.0(88.3)	85.9	62.88	69.45	75.97	79.87	81.02	79.16	74.56	67.56	56.37	37.74	8.02
1958.1	91.3(88.3)	85.7	62.21	69.23	75.62	79.05	80.51	79.35	75.59	68.90	58.33	40.91	13.25
1831.2	91.7(88.2)	85.5	62.03	68.62	74.56	78.05	79.93	79.35	77.20	70.75	60.67	44.19	18.12
1732.1	91.5(87.9)	85.2	62.35	68.61	74.58	77.83	79.68	78.95	76.96	70.69	61.00	45.24	20.42
1655.1	91.6(88.0)	85.2	62.41	68.66	74.44	77.79	79.62	79.10	77.05	70.93	61.54	46.35	22.50
1596.3	92.0(87.9)	85.2	62.37	69.32	74.65	77.44	79.20	78.92	77.73	71.72	62.55	47.79	24.68
1552.9	91.1(87.4)	84.7	62.43	68.67	73.92	77.18	78.93	78.47	76.50	70.58	61.58	47.16	24.58
1523.1	90.9(87.2)	84.4	62.23	68.26	73.50	76.97	78.60	78.36	76.22	70.35	61.47	47.25	25.06
1505.7	90.6(86.8)	84.0	61.54	67.74	73.16	76.44	78.16	78.08	75.88	70.04	61.23	47.13	25.17
1500.0	90.3(86.4)	83.7	61.75	67.45	72.59	76.09	77.89	77.70	75.60	69.77	60.98	46.93	25.03
1505.7	89.9(86.0)	83.3	60.67	66.72	72.21	75.68	77.85	77.28	75.28	69.44	60.62	46.53	24.56
1523.1	89.3(85.5)	82.8	60.34	66.50	71.44	75.00	77.44	76.77	74.65	68.76	59.87	45.65	23.47
1552.9	88.7(84.9)	82.4	59.94	65.96	70.87	74.48	77.30	76.17	73.93	68.00	59.00	44.56	22.00
1596.3	87.9(84.2)	81.6	58.96	64.48	70.47	73.51	75.86	75.71	73.10	67.09	57.93	43.17	20.06
1655.1	87.1(83.5)	80.9	58.36	63.71	70.24	73.41	75.49	74.97	72.15	66.03	56.63	41.44	17.60

RUN NUMBER	= 430.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 523.000
SECONDARY TEMPERATURE (R)	= 528.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 4.856
VELOCITY RATIO	= .721
PRIMARY VELOCITY (FT/SEC)	= 1205.390
MASS FLOW RATIO	= 3.025
PRIMARY MASS FLOW (LB/SEC)	= .345
THRUST (LBS)	= 41.068
ENVIRONMENTAL TEMPERATURE (R)	= 516.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 76.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .036
INSTRUMENTATION NOISE FLOOR (DB)	= 60.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.04654E+00	133.1
500	3.35754E-02	115.3
1000	1.70448E-01	122.3
2000	4.40350E-01	126.4
4000	5.27411E-01	127.2
8000	4.23459E-01	126.3
16000	2.86257E-01	124.6
31500	1.65040E-01	122.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.0
20000	160.0
40000	163.0
80000	166.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	95.2	101.3	102.1	97.0	92.1	91.4	89.0	106.3
20.0	93.9	101.4	103.2	99.4	92.8	91.2	87.8	107.0
25.0	92.8	99.9	103.1	100.2	93.9	91.1	88.4	106.7
30.0	90.6	99.1	103.1	101.4	95.9	91.8	89.2	107.0
35.0	89.5	96.7	101.5	101.5	97.4	93.3	90.6	106.3
40.0	87.2	94.3	100.1	101.6	99.0	95.4	92.4	106.1
45.0	85.1	92.8	98.5	100.5	99.6	96.6	93.2	105.6
50.0	83.9	91.4	97.5	99.5	99.0	96.9	93.8	105.0
55.0	83.5	91.0	96.4	99.1	99.0	97.1	94.8	104.8
60.0	83.2	90.0	95.9	98.1	98.3	96.8	94.6	104.2
65.0	83.4	90.2	95.1	97.3	97.8	96.3	94.5	103.6
70.0	82.7	89.3	94.1	96.9	97.1	96.1	94.2	103.1
75.0	82.7	89.0	93.9	96.3	96.8	96.0	93.7	102.8
80.0	82.6	88.6	93.2	95.8	96.2	95.6	93.3	102.2
85.0	81.5	87.7	92.4	95.2	95.6	95.2	92.7	101.6
90.0	81.1	87.1	92.2	95.0	95.8	94.7	92.3	101.4
95.0	80.6	86.6	91.8	94.5	95.4	94.0	91.7	100.9
100.0	80.3	86.3	90.8	93.9	94.8	93.5	91.2	100.3
105.0	79.5	85.6	90.7	94.1	94.6	93.0	91.6	100.2
110.0	78.6	84.3	90.3	93.4	93.9	92.6	90.0	99.5
115.0	78.1	83.5	89.6	93.3	93.9	92.2	89.5	99.2

MODEL THRUST = 41.068 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	22.7	OCTAVE 45.3	BAND 90.6	SOUND 181.3	PRESSURE 362.5	LEVELS 725.0	1427.4	2854.8	5664.3	11328.6	22657.3
5795.6	75.7(75.4)	78.1	67.35	73.42	74.04	69.33	62.42	58.58	47.38	28.11	-6.59	-66.95	-162.81
4389.7	80.2(79.6)	81.2	68.44	75.91	77.69	73.49	66.07	61.98	53.02	37.71	10.72	-35.68	-108.95
3549.3	83.1(82.3)	82.9	69.18	76.33	79.46	76.25	69.25	64.42	57.26	44.29	21.88	-16.25	-76.12
3000.0	85.8(84.9)	84.5	68.47	76.92	80.88	79.02	72.87	67.06	60.74	49.31	29.90	-2.79	-53.85
2615.2	87.4(86.4)	85.0	68.54	75.74	80.35	79.64	75.18	70.18	64.15	53.01	36.50	7.62	-37.28
2333.6	89.4(88.0)	85.7	67.29	74.35	80.11	81.41	78.37	73.45	67.53	57.97	42.21	16.12	-24.27
2121.3	90.6(89.0)	85.9	65.99	73.70	79.38	81.22	79.79	75.70	69.50	60.62	46.02	22.03	-14.96
1958.1	91.1(89.3)	85.9	65.49	72.98	79.05	80.93	79.96	76.79	71.22	62.73	49.02	26.64	-7.76
1831.2	92.0(90.0)	86.3	65.67	73.15	78.57	81.12	80.61	77.67	73.12	64.98	51.97	30.85	-1.50
1732.1	92.1(89.9)	86.1	65.84	72.66	78.54	80.62	80.44	77.99	73.58	65.72	53.24	33.10	2.35
1655.1	92.1(89.8)	86.0	66.46	73.21	78.14	80.21	80.30	77.97	74.04	66.40	54.34	34.96	5.45
1596.3	92.0(89.6)	85.8	66.10	72.67	77.43	80.12	80.01	78.10	74.18	66.70	54.97	36.17	7.60
1552.9	91.9(89.6)	85.7	66.34	72.67	77.42	79.80	79.96	78.27	74.00	66.64	55.14	36.77	8.89
1523.1	91.6(89.2)	85.3	66.40	72.38	76.93	79.45	79.47	78.08	73.84	66.57	55.25	37.16	9.76
1505.7	91.1(88.7)	84.8	65.40	71.58	76.23	78.95	79.04	77.78	73.34	66.11	54.88	36.98	9.85
1500.0	91.0(88.6)	84.7	65.04	70.99	76.08	78.74	79.23	77.31	73.02	65.81	54.60	36.76	9.72
1505.7	90.5(88.1)	84.1	64.45	70.51	75.59	78.23	78.78	76.56	72.39	65.16	53.92	36.02	8.90
1523.1	89.7(87.3)	83.4	64.05	70.10	74.53	77.48	78.06	75.95	71.76	64.49	53.16	35.08	7.68
1552.9	89.0(86.9)	83.1	63.10	69.19	74.31	77.52	77.48	75.29	71.88	64.52	53.03	34.66	6.78
1596.3	88.3(86.0)	82.1	62.00	67.65	73.98	76.56	76.77	74.61	69.98	62.50	50.77	31.97	3.39
1655.1	87.6(85.4)	81.6	61.12	66.50	72.62	76.14	76.47	73.85	69.03	61.39	49.33	29.96	.44

RUN NUMBER	= 431.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 528.000
SECONDARY TEMPERATURE (R)	= 527.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 4.856
VELOCITY RATIO	= .849
PRIMARY VELOCITY (FT/SEC)	= 1211.138
MASS FLOW RATIO	= 3.849
PRIMARY MASS FLOW (LB/SEC)	= .343
THRUST (LBS)	= 55.115
ENVIRONMENTAL TEMPERATURE (R)	= 516.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 76.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .056
INSTRUMENTATION NOISE FLOOR (DB)	= 64.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.42843E+00	136.5
500	7.85035E-02	118.9
1000	3.63379E-01	125.6
2000	9.10568E-01	129.6
4000	1.08450E+00	130.4
8000	9.51702E-01	129.8
16000	8.44752E-01	128.1
31500	3.95030E-01	126.0

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	159.0
20000	162.1
40000	165.1
80000	168.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.8	103.3	104.8	101.7	96.4	93.6	89.8	109.4
20.0	98.0	104.5	106.0	102.9	97.8	93.9	91.1	110.1
25.0	96.5	103.7	106.2	103.5	99.0	95.2	91.7	110.2
30.0	94.9	101.6	105.7	104.0	99.8	96.0	92.7	109.8
35.0	92.6	100.0	104.7	104.5	101.1	97.6	94.3	109.6
40.0	90.9	98.2	103.6	104.3	101.9	98.4	95.6	109.2
45.0	89.1	96.3	101.6	103.2	102.2	99.3	96.3	108.4
50.0	87.8	94.9	100.7	102.5	102.3	100.3	97.1	108.2
55.0	87.4	94.3	99.8	102.2	102.1	100.1	97.5	107.9
60.0	86.6	93.5	99.1	101.4	101.6	100.2	97.9	107.5
65.0	86.2	93.1	98.3	100.5	100.9	99.4	97.5	106.7
70.0	86.5	92.9	97.9	99.8	100.3	99.1	97.7	106.3
75.0	85.7	92.1	97.2	99.6	100.1	99.3	97.5	106.1
80.0	85.8	91.8	96.9	99.1	99.7	98.9	97.3	105.7
85.0	85.0	91.4	96.1	98.5	99.2	98.7	97.0	105.3
90.0	84.3	90.4	95.6	98.3	99.4	98.4	96.6	105.1
95.0	83.5	89.9	94.9	98.0	99.3	98.2	96.3	104.8
100.0	83.3	89.4	94.8	97.8	98.9	97.8	96.0	104.4
105.0	82.5	89.2	94.4	97.3	98.7	97.4	95.7	104.1
110.0	82.1	87.9	94.0	97.8	98.4	97.2	95.5	104.0
115.0	81.9	86.9	93.6	97.2	98.5	97.0	95.0	103.7

MODEL THRUST = 55.115 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 26.2	52.5	105.0	210.0	420.0	839.9	1653.6	3307.2	6561.9	13123.8	26247.6
5795.6	78.8(78.6)	79.9	69.69	75.18	75.47	71.84	65.02	58.21	45.79	23.83	-15.36	-82.45	-186.91
4385.7	83.2(82.8)	83.1	71.35	77.75	79.11	75.63	69.30	62.56	53.18	35.84	5.45	-46.04	-125.83
3549.3	86.1(85.6)	85.0	71.61	78.83	81.22	78.19	72.80	66.58	57.72	43.11	17.95	-24.30	-89.44
3000.0	88.2(87.5)	86.0	71.55	78.20	82.16	80.26	75.24	69.43	61.61	48.79	27.06	-9.12	-64.66
2615.2	90.2(89.3)	86.9	70.39	77.74	82.38	82.00	77.87	72.63	65.43	53.88	34.55	2.63	-46.15
2333.6	91.5(90.3)	87.4	69.67	76.94	82.28	82.77	79.82	74.74	68.38	57.76	40.19	11.38	-32.47
2121.3	92.5(91.1)	87.3	68.72	75.88	81.10	82.51	81.03	76.70	70.49	60.55	44.30	17.84	-22.29
1958.1	93.5(92.0)	87.7	68.12	75.25	80.99	82.58	81.88	78.59	72.44	63.04	47.81	23.16	-14.12
1831.2	94.1(92.4)	88.0	68.29	75.20	80.65	82.86	82.32	79.11	73.69	64.70	50.26	27.01	-8.05
1732.1	94.4(92.6)	88.0	68.01	74.85	80.45	82.51	82.35	79.73	74.85	66.19	52.37	30.22	-3.10
1655.1	94.2(92.3)	87.6	67.93	74.85	79.97	82.02	82.03	79.46	75.02	66.80	53.27	31.97	-.01
1596.3	94.3(92.3)	87.6	68.60	74.93	79.96	81.72	81.79	79.50	75.70	67.48	54.51	33.86	2.91
1552.9	94.4(92.3)	87.5	67.99	74.43	79.47	81.77	81.80	79.98	75.83	67.75	55.05	34.88	4.70
1523.1	94.4(92.3)	87.4	68.29	74.27	79.35	81.44	81.64	79.79	75.91	67.93	55.42	35.57	5.91
1505.7	94.1(91.9)	87.0	67.60	74.03	78.67	80.88	81.22	79.71	75.71	67.79	55.38	35.73	6.37
1500.0	93.9(91.7)	86.8	66.91	73.04	78.14	80.71	81.49	79.46	75.40	67.50	55.13	35.54	6.28
1505.7	93.6(91.4)	86.5	66.09	72.52	77.45	80.37	81.32	79.21	75.05	67.12	54.72	35.07	5.71
1523.1	93.1(90.9)	86.0	65.83	71.91	77.25	80.06	80.81	78.70	74.58	66.60	54.09	34.24	4.58
1552.9	92.5(90.4)	85.5	64.78	71.56	76.70	79.41	80.41	78.09	74.07	65.99	53.29	33.12	2.93
1596.3	92.0(89.9)	85.1	64.17	69.97	76.00	78.88	79.90	77.62	73.52	65.29	52.33	31.67	.73
1655.1	91.4(89.4)	84.5	63.66	68.66	75.27	78.81	79.60	77.05	72.55	64.14	50.80	29.50	-2.47

RUN NUMBER	= 432.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 527.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 9.788
VELOCITY RATIO	= .376
PRIMARY VELOCITY (FT/SEC)	= 1269.990
MASS FLOW RATIO	= 2.793
PRIMARY MASS FLOW (LB/SEC)	= .343
THRUST (LBS)	= 26.446
ENVIRONMENTAL TEMPERATURE (R)	= 516.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .028
INSTRUMENTATION NOISE FLOOR (DB)	= 58.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.18534E+00	130.7
500	1.16457E-02	110.7
1000	5.64476E-02	117.5
2000	2.01998E-01	123.1
4000	3.11401E-01	124.9
8000	2.76703E-01	124.4
16000	2.13120E-01	123.3
31500	1.14021E-01	120.6

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	156.5
20000	159.5
40000	162.5
80000	165.5

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	90.1	96.8	100.1	98.6	93.9	93.9	89.1	104.8
20.0	89.3	96.8	101.1	99.9	93.3	92.4	90.1	105.2
25.0	87.9	95.6	101.5	101.3	95.3	91.5	89.6	105.8
30.0	86.0	93.9	100.4	102.4	98.7	93.5	90.1	106.2
35.0	84.4	91.9	98.2	101.1	99.2	95.3	91.6	105.4
40.0	82.4	89.7	96.4	99.5	99.1	96.7	92.5	104.6
45.0	81.6	88.2	94.4	97.5	98.1	96.2	92.2	103.3
50.0	79.7	86.9	93.0	96.2	97.3	96.2	93.3	102.7
55.0	79.5	85.6	91.5	95.7	96.6	96.2	93.5	102.0
60.0	79.4	84.9	90.6	93.9	95.4	95.1	92.8	101.0
65.0	79.1	84.4	89.8	93.0	94.5	94.5	92.7	100.3
70.0	77.7	84.1	89.4	92.5	94.3	94.3	91.8	99.9
75.0	78.3	83.4	88.6	91.9	93.6	93.6	91.2	99.3
80.0	77.8	82.8	88.0	91.0	92.6	92.8	90.7	98.5
85.0	77.3	82.6	87.7	90.5	92.4	92.3	90.2	98.1
90.0	77.3	82.0	87.4	90.2	91.9	92.0	89.7	97.7
95.0	76.1	81.7	86.7	90.0	91.8	91.7	89.3	97.4
100.0	75.3	81.5	86.2	89.4	91.2	91.3	89.0	96.9
105.0	74.8	80.9	85.8	88.9	90.7	91.0	88.6	96.6
110.0	74.8	79.9	85.8	88.6	90.7	90.6	88.3	96.3
115.0	73.9	78.6	85.6	88.7	90.3	90.3	88.0	96.0

MODEL THRUST = 26.446 FULL SCALE THRUST = 20000.000

LI	PNDB	OASPL	OCTAVE 16.2	36.4	BAND 72.7	SOUND 145.5	PRESSURE 290.9	581.8	LEVELS 1145.4	2290.9	4545.4	9090.8	18181.6
5795.5	77.1(76.4)	78.0	64.16	70.83	74.01	72.11	66.74	64.28	53.88	38.04	9.25	-41.91	-125.52
4385.7	81.3(80.3)	81.3	65.82	73.26	77.46	76.08	68.80	66.14	59.58	46.87	24.35	-15.09	-79.09
3549.3	84.5(83.4)	83.8	66.25	73.91	79.80	79.39	72.87	67.59	62.30	51.44	32.64	.15	-52.21
3000.0	87.4(86.1)	85.6	65.79	73.66	80.12	81.97	77.80	71.37	65.10	55.46	39.11	11.18	-33.54
2615.2	89.1(87.5)	85.9	65.36	72.85	79.16	81.95	79.57	74.69	68.39	59.60	44.96	20.23	-19.14
2333.6	90.2(88.4)	86.0	64.36	71.63	76.37	81.28	80.57	77.22	70.76	62.59	49.20	28.81	-8.64
2121.3	90.3(88.2)	85.5	64.41	70.97	77.21	80.13	80.43	77.69	71.63	63.93	51.49	30.86	-1.64
1958.1	90.9(88.3)	85.3	63.18	70.41	76.50	79.52	80.42	78.46	73.63	66.29	54.58	35.31	5.07
1831.2	91.2(88.5)	85.4	63.62	69.66	75.52	78.82	80.33	79.15	74.68	67.63	56.48	38.26	9.79
1732.1	90.9(87.9)	84.9	63.97	69.43	75.15	78.31	79.62	78.58	74.60	67.76	57.05	39.66	12.57
1655.1	90.8(87.7)	84.6	64.10	69.37	74.69	77.83	79.15	78.40	74.97	68.31	57.94	41.19	15.17
1596.3	90.8(87.8)	84.6	62.94	69.37	74.62	77.70	79.18	78.61	74.53	67.99	57.89	41.62	16.42
1552.9	90.5(87.3)	84.2	63.00	68.93	74.08	77.27	78.74	78.15	74.23	67.79	57.88	41.98	17.38
1522.1	89.9(86.7)	83.6	63.50	68.46	73.23	76.63	78.00	77.56	73.92	67.59	57.77	42.11	17.93
1505.7	89.6(86.4)	83.3	63.12	68.37	73.49	76.21	77.81	77.12	73.55	67.22	57.52	42.00	18.06
1500.0	89.2(86.0)	82.9	63.15	67.81	73.16	75.87	77.38	76.06	73.14	66.81	57.14	41.67	17.81
1505.7	88.9(85.7)	82.6	61.86	67.46	72.48	75.67	77.27	76.56	72.68	66.35	56.64	41.13	17.19
1523.1	88.3(85.1)	82.0	60.95	67.14	71.82	75.02	76.55	76.03	72.27	65.89	56.11	40.46	16.27
1552.9	87.7(84.5)	81.5	60.35	66.41	71.29	74.33	76.12	75.56	71.60	65.16	55.25	39.34	14.78
1596.3	87.0(83.9)	80.9	60.11	65.17	71.05	73.73	75.60	74.89	71.05	64.52	54.42	38.15	12.95
1655.1	86.3(83.2)	80.3	58.86	63.58	70.58	73.52	74.95	74.23	70.33	63.66	53.30	36.54	10.52

RUN NUMBER	= 433.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 523.000
SECONDARY TEMPERATURE (R)	= 533.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 9.788
VELOCITY RATIO	= .724
PRIMARY VELOCITY (FT/SEC)	= 1205.390
MASS FLOW RATIO	= 5.942
PRIMARY MASS FLOW (LB/SEC)	= .345
THRUST (LBS)	= 68.476
ENVIRONMENTAL TEMPERATURE (R)	= 516.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 76.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .050
INSTRUMENTATION NOISE FLOOR (DB)	= 63.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.47355E+00	135.4
500	1.22323E-01	120.9
1000	4.11479E-01	126.1
2000	8.04154E-01	129.1
4000	8.50830E-01	129.3
8000	5.83608E-01	127.7
16000	4.15945E-01	126.2
31500	2.85411E-01	124.6

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.1
20000	160.1
40000	163.1
80000	166.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	101.4	105.3	103.7	99.0	93.8	92.1	87.9	109.2
20.0	100.2	104.7	104.3	100.7	96.0	92.8	89.3	109.3
25.0	98.5	104.1	105.3	102.9	98.3	94.4	90.8	109.8
30.0	96.5	102.5	105.1	102.9	97.5	93.8	90.5	109.2
35.0	94.4	100.1	103.9	103.3	99.1	95.8	92.8	108.6
40.0	92.3	98.7	103.1	103.4	99.7	95.4	92.4	108.2
45.0	91.4	97.3	102.0	103.1	100.7	96.8	93.8	107.9
50.0	89.7	96.3	100.7	102.3	100.8	97.5	94.1	107.3
55.0	89.0	94.8	99.5	100.9	100.0	97.6	94.7	106.4
60.0	88.9	94.5	98.8	100.0	100.0	98.0	95.3	106.1
65.0	88.7	93.7	97.9	99.7	99.4	97.8	95.2	105.6
70.0	87.4	93.0	97.8	99.3	99.1	97.8	95.9	105.5
75.0	87.3	92.8	96.8	98.5	98.4	97.4	95.9	104.8
80.0	86.9	92.1	96.3	98.1	97.5	96.6	95.3	104.2
85.0	86.6	91.2	95.4	97.2	96.5	95.7	95.5	103.5
90.0	86.1	90.8	95.3	96.9	96.7	96.3	95.7	103.5
95.0	84.9	90.1	94.9	96.7	96.2	96.0	95.2	103.1
100.0	84.6	89.8	94.2	95.8	95.4	96.6	96.0	103.0
105.0	84.1	89.1	94.2	95.9	95.1	96.5	96.1	102.9
110.0	82.5	88.1	93.9	95.7	95.2	96.5	95.5	102.6
115.0	83.1	87.3	93.3	95.1	95.0	96.5	96.3	102.6

MODEL THRUST = 68.476 FULL SCALE THRUST = 20000.000

L,	PNDB,	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 29.3	58.5	117.0	234.1	468.1	936.2	1843.2	3686.3	7314.1	14628.3	29256.5
5795.6	76.3(76.2)	78.8	71.38	75.16	73.40	68.06	61.07	54.97	40.83	16.67	-26.12	-98.47	-209.44
4385.7	80.8(80.4)	81.3	72.83	78.97	78.47	72.34	66.31	59.77	48.75	29.74	-3.37	-58.05	-143.56
3549.3	84.7(84.3)	83.6	72.65	78.22	79.29	76.56	70.86	64.25	54.55	38.58	11.22	-34.25	-103.38
3000.0	86.2(85.7)	84.8	72.17	78.17	80.61	78.09	71.84	65.77	57.41	43.45	19.85	-19.04	-77.94
2615.2	88.2(87.4)	85.0	71.28	76.93	80.68	79.73	74.80	69.45	62.01	49.46	28.50	-5.79	-57.51
2333.6	89.2(88.4)	85.5	70.18	76.57	80.86	80.87	76.45	70.43	63.39	51.87	32.85	1.93	-44.55
2121.3	90.4(89.4)	86.0	70.12	75.95	80.56	81.48	78.37	72.86	66.22	54.48	37.91	9.53	-32.99
1958.1	90.9(89.7)	86.0	69.08	75.65	80.01	81.36	79.31	74.53	67.64	57.54	41.10	14.67	-24.81
1831.2	91.1(89.7)	85.6	68.92	74.73	79.34	80.54	79.09	75.34	69.28	59.59	44.02	19.11	-18.01
1732.1	91.7(90.2)	85.7	69.32	74.96	79.11	80.20	79.65	76.31	70.70	61.37	46.48	22.76	-12.51
1655.1	91.8(90.1)	85.6	69.56	74.54	78.67	80.26	79.48	76.64	71.13	62.08	47.72	24.92	-8.92
1596.3	92.1(90.4)	85.7	68.59	74.17	78.89	80.17	79.86	76.98	72.35	63.52	49.56	27.46	-5.28
1552.9	92.1(90.2)	85.3	68.74	74.15	78.07	79.67	79.06	76.87	72.73	64.05	50.39	28.80	-3.13
1523.1	91.7(89.8)	84.9	68.42	73.60	77.81	79.46	78.41	76.25	72.37	63.90	50.35	29.12	-2.26
1505.7	91.5(89.6)	84.2	68.22	72.85	77.00	78.60	77.47	75.55	72.70	64.20	50.87	29.85	-1.20
1500.0	91.7(89.8)	84.2	67.84	72.43	76.90	78.39	77.71	76.10	73.00	64.52	51.22	30.27	-.67
1505.7	91.2(89.2)	83.8	66.56	71.70	76.45	78.15	77.18	75.85	72.39	63.89	50.55	29.54	-1.52
1523.1	91.3(89.1)	83.3	66.18	71.31	75.67	77.15	76.28	76.34	73.09	64.53	51.07	29.84	-1.53
1552.9	91.1(89.1)	83.0	65.49	70.44	75.56	77.01	75.76	75.96	72.95	64.28	50.62	29.04	-2.90
1596.3	90.3(88.4)	82.6	63.61	69.26	75.01	76.65	75.60	75.71	71.99	63.16	49.20	27.10	-5.64
1655.1	90.1(88.2)	81.9	63.93	68.09	74.04	75.71	75.06	75.32	72.21	63.22	48.86	24.05	-7.78

RUN NUMBER	= 434.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 525.000
SECONDARY TEMPERATURE (R)	= 535.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 9.788
VELOCITY RATIO	= .858
PRIMARY VELOCITY (FT/SEC)	= 1287.692
MASS FLOW RATIO	= 7.481
PRIMARY MASS FLOW (LB/SEC)	= .343
THRUST (LBS)	= 95.515
ENVIRONMENTAL TEMPERATURE (R)	= 516.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.470
ENVIRONMENTAL HUMIDITY (PER CENT)	= 76.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .089
INSTRUMENTATION NOISE FLOOR (DB)	= 68.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	9.56164E+00	139.8
500	3.63065E-01	125.6
1000	1.26494E+00	131.0
2000	2.16178E+00	133.3
4000	2.16833E+00	133.4
8000	1.63072E+00	132.1
16000	1.14475E+00	130.6
31500	8.28059E-01	129.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.0
20000	163.0
40000	166.0
80000	169.0

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	105.8	109.4	107.1	102.9	98.7	96.0	91.8	113.2
20.0	104.4	109.7	109.1	104.9	100.5	97.1	93.6	114.0
25.0	103.8	109.3	109.3	105.7	102.1	98.2	95.1	114.1
30.0	101.6	107.5	109.6	107.3	103.8	100.6	97.4	114.1
35.0	99.9	106.6	109.1	107.4	103.6	100.0	96.8	113.6
40.0	98.1	104.0	107.7	107.7	104.5	100.6	97.3	112.9
45.0	96.1	101.8	106.6	107.3	104.7	101.5	98.1	112.3
50.0	94.7	101.0	105.2	106.3	104.8	101.8	99.2	111.6
55.0	93.8	99.3	103.5	105.2	104.3	101.7	98.9	110.6
60.0	92.7	98.4	102.7	104.3	104.0	101.8	99.7	110.2
65.0	92.8	98.1	101.8	103.6	103.4	101.7	99.7	109.7
70.0	92.1	97.5	101.4	102.9	102.6	100.9	99.2	109.0
75.0	91.3	96.6	100.2	102.1	102.0	101.3	100.0	108.6
80.0	90.8	95.4	99.9	101.6	101.6	101.1	100.2	108.2
85.0	90.3	95.4	99.6	101.3	101.5	101.3	100.0	108.1
90.0	89.8	94.3	99.2	101.3	101.5	101.0	100.5	108.0
95.0	89.7	93.9	98.6	100.9	101.2	101.0	100.8	107.8
100.0	88.4	93.8	98.1	100.5	101.1	101.0	100.9	107.7
105.0	88.0	93.7	98.0	100.2	100.6	101.0	100.7	107.6
110.0	87.3	93.8	98.1	100.4	100.7	101.0	100.0	107.3
115.0	86.8	92.0	97.4	99.8	100.8	101.0	100.8	107.3

MODEL THRUST = 95.515 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 34.6	69.1	138.2	276.4	552.9	1105.7	2176.9	4353.7	8638.4	17276.7	34553.5
5795.6	79.4(79.4)	81.2	74.29	77.83	75.18	69.78	63.81	55.64	39.51	11.57	-37.22	-118.10	-239.26
4305.7	84.5(84.3)	84.5	75.35	80.53	79.76	74.96	68.84	61.28	48.80	20.93	-10.73	-72.66	-165.07
3549.3	87.3(87.0)	86.4	76.54	82.00	81.78	77.71	72.81	65.48	55.14	36.86	5.82	-44.88	-120.24
3000.0	90.4(90.0)	87.7	75.01	81.69	83.64	80.89	76.26	70.25	60.87	44.96	18.25	-25.06	-89.22
2615.2	91.6(91.1)	88.5	75.34	82.02	84.37	82.24	77.52	71.40	62.81	48.55	24.89	-13.25	-69.57
2333.6	92.8(92.1)	88.7	74.46	80.35	84.00	83.61	79.56	73.45	65.36	52.31	30.88	-3.48	-56.06
2121.3	93.6(92.8)	88.7	73.28	79.04	83.67	84.06	80.66	75.48	68.34	56.21	36.45	4.94	-41.31
1958.1	94.0(93.0)	88.7	72.66	78.90	82.99	83.81	81.53	76.74	70.13	58.70	40.23	10.92	-32.00
1831.2	93.8(92.8)	88.2	72.26	77.79	81.91	83.30	81.76	77.43	70.81	59.93	42.46	14.85	-25.48
1732.1	94.3(93.0)	88.2	71.73	77.33	81.62	82.97	81.93	78.16	72.49	62.04	45.36	19.08	-19.23
1655.1	94.4(93.1)	88.0	72.22	77.48	81.10	82.63	81.80	78.58	73.17	63.04	46.97	21.73	-15.02
1596.3	94.2(92.9)	87.7	71.79	77.21	80.96	82.27	81.42	78.18	73.21	63.34	47.72	23.27	-12.27
1552.9	94.8(93.3)	87.3	71.22	76.53	80.02	81.76	81.05	78.63	74.42	64.73	49.46	25.60	-9.06
1523.1	94.9(93.4)	87.1	70.95	75.53	79.86	81.41	80.84	78.90	74.82	65.27	50.23	26.76	-7.29
1505.7	94.9(93.4)	87.1	70.48	75.56	79.68	81.18	80.87	79.17	74.85	65.37	50.48	27.24	-6.45
1500.0	95.1(93.5)	87.0	70.02	74.55	79.37	81.22	80.90	78.97	75.35	65.89	51.04	27.89	-5.69
1505.7	95.1(93.5)	86.6	69.86	74.12	78.70	80.76	80.53	78.93	75.60	66.12	51.22	27.99	-5.71
1523.1	94.8(93.2)	86.3	68.53	73.93	78.10	80.29	80.29	78.80	75.53	65.94	50.91	27.44	-6.61
1552.9	94.4(92.8)	85.8	67.91	73.60	77.81	79.78	79.62	78.59	75.04	65.36	50.09	26.22	-8.44
1596.3	93.6(92.1)	85.6	67.03	72.65	77.69	79.75	79.44	78.28	73.96	64.09	48.47	24.02	-11.52
1655.1	93.4(91.9)	85.0	66.20	71.35	76.71	78.86	79.23	77.88	74.24	64.12	48.04	22.80	-13.94

RUN NUMBER	= 435.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 507.000
SECONDARY TEMPERATURE (R)	= 514.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .356
PRIMARY VELOCITY (FT/SEC)	= 1356.435
MASS FLOW RATIO	= .243
PRIMARY MASS FLOW (LB/SEC)	= .432
THRUST (LBS)	= 19.760
ENVIRONMENTAL TEMPERATURE (R)	= 510.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.840
ENVIRONMENTAL HUMIDITY (PER CENT)	= 64.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.69150E+00	136.7
500	1.25798E-02	111.0
1000	1.08001E-01	120.3
2000	6.23511E-01	127.9
4000	1.44776E+00	131.6
8000	1.43544E+00	131.6
16000	7.37547E-01	128.7
31500	3.26653E-01	125.1

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	163.8
20000	166.8
40000	169.8
80000	172.8

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	90.7	100.3	106.7	108.6	107.7	102.4	95.1	113.2
20.0	90.1	100.1	107.8	110.0	109.3	102.9	95.6	114.5
25.0	88.8	98.7	106.7	110.0	108.6	101.7	95.7	113.9
30.0	86.7	97.2	105.2	109.7	108.1	102.3	97.1	113.4
35.0	84.4	94.2	103.3	107.9	107.4	103.0	98.0	112.2
40.0	83.0	92.2	100.7	105.2	105.5	102.4	98.1	110.2
45.0	80.8	90.4	98.5	103.1	104.5	102.6	98.6	109.1
50.0	79.6	87.8	95.6	100.2	102.1	101.3	98.2	107.1
55.0	79.0	87.2	94.2	98.6	100.5	99.8	97.6	105.7
60.0	78.2	86.1	93.3	97.8	100.0	99.5	96.8	105.1
65.0	77.8	86.0	92.3	96.2	98.4	98.2	96.0	103.8
70.0	77.8	85.5	92.0	95.8	98.0	98.0	95.6	103.4
75.0	77.8	85.4	91.4	95.3	97.3	97.5	95.0	102.9
80.0	77.8	84.8	90.9	95.0	97.0	97.0	94.6	102.5
85.0	76.6	84.4	90.5	94.2	96.6	96.5	94.0	102.0
90.0	76.1	83.1	89.6	93.7	96.1	96.0	93.6	101.4
95.0	76.1	83.5	89.3	93.2	95.7	95.5	93.0	101.0
100.0	76.1	82.9	88.6	92.8	95.4	95.0	92.6	100.5
105.0	75.1	82.4	88.1	92.5	95.0	94.7	92.0	100.1
110.0	75.1	81.9	88.3	92.0	94.7	94.5	91.8	99.9
115.0	74.5	81.0	88.2	92.1	94.3	94.0	91.3	99.5

MODEL THRUST = 19.760 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 15.7	31.4	62.9	125.7	251.5	502.9	990.1	1980.3	3929.1	7858.1	15716.3
5795.6	89.1(88.5)	87.9	66.08	75.64	81.91	83.60	82.00	74.82	62.84	48.92	23.54	-22.12	-98.08
4385.7	93.5(92.7)	91.7	67.85	77.88	85.51	87.51	86.30	78.38	67.56	56.30	36.37	1.09	-57.12
3549.3	95.0(94.0)	93.0	68.22	78.33	86.29	89.38	87.40	79.47	70.59	60.91	44.20	15.08	-32.60
3000.0	96.7(95.9)	94.1	67.77	78.22	86.19	90.81	88.66	81.87	74.19	65.54	50.96	25.87	-14.89
2615.2	97.6(95.9)	94.0	66.70	76.42	85.48	90.01	89.17	83.96	76.85	68.92	55.83	33.58	-2.35
2333.6	97.3(95.2)	93.0	66.29	75.49	83.91	88.28	88.34	84.43	78.27	70.88	58.87	38.69	6.32
2121.3	97.5(95.1)	92.6	64.91	74.46	82.52	87.09	88.16	85.36	79.64	72.64	61.45	42.84	13.13
1958.1	96.8(94.0)	91.3	64.40	72.53	80.35	84.26	86.56	85.05	80.42	73.73	63.17	45.76	18.11
1831.2	95.4(93.2)	90.5	64.32	72.56	79.48	83.82	85.53	84.27	80.51	74.07	64.00	47.52	21.46
1732.1	96.4(93.3)	90.4	64.08	71.98	79.14	83.50	85.50	84.49	80.34	74.08	64.39	48.64	23.84
1655.1	95.8(92.4)	89.5	64.08	72.22	78.53	82.33	84.38	83.63	80.06	73.94	64.55	49.37	25.53
1596.3	95.9(92.5)	89.5	64.40	72.02	78.49	82.27	84.28	83.76	80.03	74.02	64.86	50.11	27.01
1552.9	95.6(92.2)	89.2	64.64	72.28	78.15	81.99	83.81	83.52	79.70	73.78	64.78	50.35	27.80
1523.1	95.4(91.9)	89.0	64.81	72.71	77.82	81.86	83.66	83.16	79.53	73.66	64.78	50.57	28.39
1505.7	95.0(91.5)	88.6	63.63	71.42	77.49	81.32	83.43	82.77	79.05	73.22	64.40	50.32	28.37
1500.0	94.5(91.0)	88.1	63.20	70.18	76.71	80.66	82.93	82.33	78.67	72.85	64.05	50.01	28.13
1505.7	94.0(90.5)	87.6	63.16	70.59	76.31	80.19	82.46	81.80	78.07	72.23	63.42	49.34	27.38
1523.1	93.4(89.9)	87.1	63.06	69.82	75.56	79.70	82.10	81.16	77.59	71.72	62.84	48.63	26.46
1552.9	92.7(89.3)	86.5	61.87	69.17	74.83	79.21	81.52	80.66	76.76	70.8.	61.84	47.41	24.86
1596.3	92.1(88.8)	85.9	61.63	68.61	74.87	78.46	80.92	80.24	76.20	70.19	61.03	46.28	23.19
1655.1	91.3(88.0)	85.3	60.76	67.27	74.42	78.23	80.23	79.39	75.40	69.28	59.89	44.71	20.87

RUN NUMBER	= 436.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 510.000
SECONDARY TEMPERATURE (R)	= 516.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .67
PRIMARY VELOCITY (FT/SEC)	= 1360.442
MASS FLOW RATIO	= .537
PRIMARY MASS FLOW (LB/SEC)	= .428
THRUST (LBS)	= 24.680
ENVIRONMENTAL TEMPERATURE (R)	= 510.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.840
ENVIRONMENTAL HUMIDITY (PER CENT)	= 64.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .063
INSTRUMENTATION NOISE FLOOR (DB)	= 65.566

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.3619ZE+00	136.4
500	2.4805ZE-02	114.9
1000	1.7202ZE-01	122.4
2000	8.1949ZE-01	129.1
4000	1.3691BE+00	131.4
8000	1.0899O3E+00	130.4
16000	5.6663GE-01	127.5
31500	3.0006OF-01	124.8

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	162.5
20000	165.5
40000	168.5
80000	171.5

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	95.2	102.9	108.4	109.0	105.4	98.1	92.8	113.3
20.0	93.1	102.0	108.8	109.7	105.9	97.7	93.1	113.7
25.0	91.5	100.7	107.9	109.5	105.8	98.3	93.2	113.3
30.0	89.9	99.0	106.3	109.1	106.0	99.1	94.0	112.6
35.0	87.8	96.9	104.4	107.4	105.6	100.3	95.0	111.4
40.0	85.3	94.6	102.2	105.5	105.3	101.6	97.0	110.6
45.0	83.4	91.4	98.7	102.7	103.4	101.2	97.2	108.3
50.0	81.6	89.6	97.0	100.8	102.1	100.2	97.4	107.0
55.0	81.1	88.7	95.5	98.9	100.3	99.4	97.6	105.7
60.0	80.6	88.1	94.5	97.5	99.2	98.7	97.0	104.8
65.0	80.4	87.9	94.0	96.8	98.4	98.0	96.2	104.1
70.0	80.1	87.3	93.1	96.1	97.6	97.5	95.7	103.4
75.0	79.8	87.0	92.5	95.5	97.1	97.0	95.2	102.9
80.0	79.2	86.5	91.7	95.0	96.5	96.6	95.0	102.4
85.0	78.9	86.0	91.0	94.1	96.0	96.1	94.5	101.9
90.0	78.3	85.1	90.3	93.3	95.4	95.6	94.2	101.3
95.0	78.3	84.6	90.5	93.7	95.3	95.6	94.2	101.5
100.0	77.9	84.5	89.7	93.0	96.0	95.5	93.0	101.1
105.0	77.2	83.9	89.4	93.1	96.1	95.2	93.0	101.0
110.0	76.8	83.6	89.2	92.4	96.0	95.0	92.5	100.7
115.0	76.4	83.0	88.8	92.1	96.7	95.0	92.5	100.9

MODEL THRUST = 24.680 FULL SCALE THRUST = 20000.000

L=	PNDB=	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 17.6	35.1	70.3	140.5	281.0	562.1	1106.5	2213.1	4391.0	8782.1	17564.1
5795.6	87.0(86.6)	87.2	69.57	77.22	82.68	82.94	78.55	69.04	58.27	42.91	14.96	-34.85	-116.61
4385.7	90.5(89.8)	90.1	69.89	78.82	85.68	86.16	81.79	71.87	61.16	50.81	28.93	-9.50	-72.09
3549.3	92.6(91.7)	91.6	70.14	79.32	86.52	87.92	83.72	74.79	66.38	55.81	37.53	5.86	-45.37
3000.0	94.2(93.1)	92.4	70.00	79.11	86.37	89.00	85.50	77.35	69.55	60.15	44.24	17.00	-26.76
2615.2	95.2(93.8)	92.3	69.12	78.17	85.68	88.56	86.35	79.98	72.28	63.71	49.45	25.32	-13.21
2333.6	96.3(94.5)	92.2	67.54	76.84	84.41	87.62	87.09	82.50	75.74	67.76	54.72	32.87	-1.84
2121.3	95.8(93.6)	90.9	66.54	74.50	81.79	85.71	86.11	83.03	77.39	69.56	57.43	37.30	5.47
1958.1	95.8(93.1)	90.2	65.39	73.37	80.74	84.69	85.46	82.82	78.22	71.04	59.61	40.80	11.19
1831.2	95.4(92.5)	89.5	65.50	73.04	79.87	83.18	84.29	82.72	79.18	72.28	61.39	43.60	15.72
1732.1	95.1(92.0)	89.0	65.49	72.97	79.31	82.27	83.69	82.53	79.25	72.56	62.10	45.11	18.57
1655.1	94.9(91.8)	88.7	65.63	73.13	79.20	81.99	83.35	82.27	78.95	72.42	62.29	45.93	20.44
1596.3	94.7(91.5)	88.4	65.67	72.84	78.62	81.62	82.81	82.12	78.84	72.44	62.56	46.67	21.98
1552.9	94.6(91.3)	88.2	65.64	72.82	78.26	81.21	82.64	81.91	78.68	72.37	62.68	47.14	23.04
1523.1	94.3(91.0)	87.8	65.23	72.66	77.71	80.90	82.18	81.54	78.65	72.40	62.85	47.54	23.85
1505.7	93.9(90.5)	87.4	65.02	71.69	77.10	80.32	81.95	81.16	78.27	72.06	62.58	47.42	23.96
1500.0	93.8(90.5)	87.4	64.41	71.25	76.86	80.36	82.25	81.19	77.87	71.67	62.21	47.10	23.71
1505.7	93.4(90.2)	87.1	64.38	70.72	76.54	79.90	82.06	80.97	77.26	71.05	61.57	46.40	22.96
1523.1	92.9(89.7)	86.5	63.94	70.45	75.42	78.88	81.68	80.61	76.63	70.38	60.83	45.52	21.83
1552.9	92.5(89.3)	86.2	63.04	69.74	75.23	78.78	81.56	80.09	76.42	70.11	60.42	44.88	20.78
1596.3	91.9(88.8)	85.7	62.42	69.13	74.77	77.93	81.21	79.62	75.89	69.29	59.41	43.52	19.83
1655.1	91.8(88.8)	85.6	61.70	68.21	73.99	77.28	81.67	79.27	75.28	68.75	58.63	42.26	16.77

RUN NUMBER	= 437.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 512.000
SECONDARY TEMPERATURE (R)	= 517.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .747
PRIMARY VELOCITY (FT/SEC)	= 1363.107
MASS FLOW RATIO	= .624
PRIMARY MASS FLOW (LB/SEC)	= .425
THRUST (LBS)	= 26.583
ENVIRONMENTAL TEMPERATURE (R)	= 510.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.840
ENVIRONMENTAL HUMIDITY (PER CENT)	= 64.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.87700E+00	136.9
500	2.68256E-02	114.3
1000	2.12359E-01	123.3
2000	9.82006E-01	129.9
4000	1.54889E+00	131.9
8000	1.17147E+00	130.7
16000	5.70674E-01	127.6
31500	3.64773E-01	125.6

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	162.6
20000	165.6
40000	168.7
80000	171.7

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	94.3	103.5	109.2	109.6	105.1	97.6	92.3	113.8
20.0	93.9	103.5	109.5	109.9	105.7	97.7	92.6	114.1
25.0	92.3	101.9	109.1	110.1	106.0	98.1	93.1	114.0
30.0	90.5	100.1	107.5	109.8	106.7	99.7	94.4	113.5
35.0	88.1	97.7	105.2	108.1	105.8	99.8	94.6	111.9
40.0	85.5	95.0	102.2	105.6	104.9	100.6	96.0	110.1
45.0	83.7	91.9	99.7	103.3	103.9	101.4	97.5	108.8
50.0	82.4	90.3	97.4	100.8	102.0	100.4	97.8	107.2
55.0	81.6	88.9	95.5	99.3	100.6	99.7	98.7	106.2
60.0	81.4	88.8	94.9	98.0	99.6	98.9	98.4	105.3
65.0	80.5	88.0	93.9	97.1	98.5	98.5	97.7	104.5
70.0	80.2	87.6	93.1	96.3	97.8	97.5	97.0	103.7
75.0	80.8	87.1	92.8	96.0	97.3	97.0	96.5	103.3
80.0	79.9	86.8	91.8	95.3	96.7	96.5	96.0	102.7
85.0	79.8	86.1	91.7	94.7	96.7	96.5	95.5	102.5
90.0	79.0	85.8	91.3	94.3	96.9	96.0	94.0	102.0
95.0	78.6	85.3	90.7	93.9	97.1	96.0	95.0	102.1
100.0	77.8	84.9	90.1	93.6	97.6	95.5	94.5	102.0
105.0	77.8	84.4	89.4	92.9	97.3	95.2	94.0	101.6
110.0	76.6	83.5	89.3	92.6	97.9	95.0	94.0	101.7
115.0	76.6	83.1	89.3	92.3	98.6	95.0	93.5	101.9

MODEL THRUST = 26.583 FULL SCALE THRUST = 20000.000

L.	PNDB.		OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 18.2	36.5	72.9	145.8	291.7	583.3	1148.4	2296.8	4557.2	9114.4	18228.7
5795.6	87.1	86.7	87.4	68.34	77.55	83.09	83.23	77.82	68.02	57.01	41.14	12.28	-38.98	-122.72
4385.7	90.5	89.9	90.2	70.34	79.98	85.88	86.11	81.23	71.40	62.07	49.33	26.76	-12.76	-76.86
3549.3	92.8	92.0	92.0	70.61	80.25	87.34	88.16	83.51	74.15	65.73	54.84	36.01	3.45	-49.00
3000.0	94.7	93.7	92.9	70.24	79.83	87.26	89.37	85.77	77.55	69.34	59.68	43.30	15.31	-29.49
2615.2	95.2	94.0	92.5	69.12	78.61	86.15	88.91	86.20	79.16	71.35	62.54	47.87	23.10	-16.34
2333.6	95.6	94.0	91.6	67.45	76.97	84.16	87.35	86.33	81.05	74.22	66.03	52.62	30.19	-5.32
2121.3	96.0	94.0	91.0	66.46	74.70	82.41	85.96	86.22	82.83	76.89	69.17	56.71	36.04	3.49
1958.1	95.8	93.1	90.0	65.89	73.77	80.86	84.16	85.08	82.69	78.18	70.83	59.10	39.79	9.51
1831.2	95.6	92.6	89.5	65.70	72.95	79.58	83.28	84.30	82.58	79.85	72.78	61.61	43.36	14.85
1732.1	95.4	92.2	89.1	65.92	73.31	79.43	82.45	83.73	82.32	80.13	73.28	62.55	45.13	18.00
1655.1	95.3	92.0	88.8	65.49	72.96	78.85	81.89	83.11	82.41	80.00	73.32	62.94	46.15	20.10
1596.3	95.0	91.5	88.3	65.51	72.88	78.32	81.44	82.72	81.77	79.71	73.16	63.04	46.74	21.51
1552.9	94.8	91.3	88.2	66.33	72.56	78.31	81.36	82.45	81.50	79.49	73.04	63.11	47.18	22.54
1523.1	94.5	90.9	87.7	65.61	72.43	77.41	80.85	82.02	81.18	79.23	72.84	63.05	47.36	23.14
1505.7	94.3	90.8	87.6	65.40	71.91	77.42	80.40	82.13	81.29	78.85	72.50	62.78	47.25	23.27
1500.0	93.6	90.4	87.3	64.76	71.62	77.06	80.04	82.33	80.86	77.39	71.04	61.35	45.86	21.96
1505.7	93.9	90.6	87.3	64.37	71.07	76.41	79.60	82.57	80.82	78.31	71.96	62.25	46.71	22.73
1523.1	93.7	90.5	87.1	63.52	70.60	75.75	79.14	82.94	80.27	77.71	71.32	61.53	45.84	21.62
1552.9	93.0	89.9	86.5	63.35	69.86	74.87	78.30	82.45	79.73	76.99	70.54	60.61	44.68	20.04
1596.3	92.9	89.9	86.3	61.84	69.80	74.91	77.73	82.02	79.24	76.68	70.13	60.01	43.72	18.48
1655.1	92.6	89.8	86.2	61.52	68.04	74.19	77.17	83.15	78.88	75.74	69.06	58.68	41.89	15.84

RUN NUMBER	= [illegible]
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 514.000
SECONDARY TEMPERATURE (R)	= 517.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .355
PRIMARY VELOCITY (FT/SEC)	= 1365.767
MASS FLOW RATIO	= .484
PRIMARY MASS FLOW (LB/SEC)	= .420
THRUST (LBS)	= 21.288
ENVIRONMENTAL TEMPERATURE (R)	= 511.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.840
ENVIRONMENTAL HUMIDITY (PERCENT)	= 44.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .089
INSTRUMENTATION NOISE FLOOR (DB)	= 68.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.42834E+00	138.1
500	1.45980E-02	111.6
1000	1.14978E-01	120.6
2000	6.60212E-01	128.2
4000	1.73089E+00	132.4
8000	2.08271E+00	133.2
16000	1.19843E+00	130.8
31500	6.26536E-01	128.0

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	164.8
20000	167.8
40000	170.8
80000	173.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	92.0	100.9	107.4	109.4	110.0	107.8	103.2	113.2
20.0	90.7	100.4	107.8	111.0	111.5	108.1	103.4	116.3
25.0	89.7	99.4	107.2	111.1	111.3	107.0	101.8	115.9
30.0	87.7	97.2	105.8	110.7	110.6	105.7	101.7	115.2
35.0	85.0	95.1	103.6	108.9	108.9	105.4	101.6	113.7
40.0	82.8	92.2	100.4	105.7	107.6	105.0	101.3	111.8
45.0	81.0	89.9	97.8	103.1	105.1	103.9	101.0	109.9
50.0	80.2	88.0	95.6	100.7	103.2	102.6	100.2	108.2
55.0	79.0	86.4	94.2	98.9	101.6	101.4	99.1	106.7
60.0	78.6	86.0	93.3	97.7	100.1	100.1	98.7	105.6
65.0	78.1	85.5	92.5	96.5	99.1	99.4	98.3	104.8
70.0	78.1	85.5	92.0	95.7	97.9	97.9	97.7	103.8
75.0	78.1	85.3	91.3	95.1	97.5	97.5	97.0	103.3
80.0	77.6	84.9	91.3	95.0	96.9	97.0	96.0	102.7
85.0	77.1	83.9	89.9	94.0	96.0	96.5	95.5	102.0
90.0	77.1	83.9	89.9	93.0	96.1	96.0	95.0	101.7
95.0	76.5	83.0	89.2	93.2	95.4	95.5	94.5	101.1
100.0	76.5	83.6	88.8	92.9	95.3	95.0	94.5	100.9
105.0	75.3	82.5	88.5	92.1	94.6	94.5	93.5	100.2
110.0	74.6	81.5	87.6	91.4	93.9	94.0	93.5	99.7
115.0	73.8	81.1	87.9	91.6	93.0	93.5	92.5	99.3

MODEL THRUST = 21.288 FULL SCALE THRUST = 20000.000

L*	PNDB*	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS										
			16.3	32.6	65.3	130.5	261.0	522.0	1027.7	2055.4	4078.2	8156.4	16312.8
5795.6	91.7(90.9)	89.1	67.02	75.85	82.30	84.10	83.89	79.52	70.15	55.77	29.55	-17.47	-95.34
4385.7	96.0(94.9)	92.9	68.18	77.82	85.19	88.14	88.07	83.17	74.75	63.14	42.57	6.26	-53.40
3549.3	97.8(96.6)	94.6	68.94	78.62	86.42	90.21	89.87	84.36	76.11	66.14	48.92	18.96	-29.90
3000.0	98.9(97.4)	95.3	68.40	77.93	86.45	91.30	90.74	84.82	78.28	69.38	54.37	28.58	-13.18
2615.2	99.2(97.3)	95.0	66.99	77.02	85.53	90.67	90.38	85.96	79.90	71.76	58.28	35.42	-1.37
2333.6	99.1(96.8)	94.1	65.76	75.12	83.28	88.48	90.06	86.62	80.94	73.36	61.01	40.29	7.14
2121.3	98.3(95.7)	92.9	64.72	73.65	81.51	86.76	88.41	86.54	81.84	74.67	63.18	44.06	13.66
1958.1	97.0(94.9)	91.9	64.69	72.44	79.99	85.07	87.26	85.97	81.97	75.13	64.28	46.41	18.11
1831.2	97.3(94.2)	91.1	64.06	71.40	79.25	83.84	86.26	85.40	81.58	74.99	64.65	47.74	21.08
1732.1	96.9(93.6)	90.5	64.10	71.48	78.79	83.11	85.30	84.73	81.83	75.43	65.49	49.34	23.96
1655.1	96.7(93.2)	90.1	64.02	71.45	78.34	82.30	84.69	84.37	81.95	75.70	66.07	50.50	26.12
1596.3	96.2(92.4)	89.5	64.34	71.77	78.21	81.87	83.86	83.31	81.69	75.55	66.16	51.04	27.41
1552.9	95.9(92.2)	89.2	64.58	71.79	77.72	81.52	83.66	83.15	81.28	75.23	66.01	51.21	28.15
1523.1	95.5(91.8)	88.8	64.25	71.50	77.89	81.53	83.22	82.86	80.51	74.52	65.42	50.85	28.17
1505.7	95.0(91.3)	88.2	63.02	70.61	76.63	80.65	82.44	82.43	80.10	74.15	65.11	50.64	28.22
1500.0	94.8(91.0)	88.0	63.86	70.64	76.67	80.51	82.55	81.96	79.69	73.75	64.74	50.34	27.97
1505.7	94.0(90.3)	87.4	63.26	69.78	75.86	79.83	81.80	81.39	79.17	73.22	64.19	49.75	27.30
1523.1	93.7(89.9)	87.0	63.16	70.24	75.44	79.44	81.61	80.81	79.05	73.06	63.96	49.39	26.71
1552.9	92.7(89.0)	86.1	61.75	68.91	74.93	78.44	80.74	80.12	77.80	71.75	62.53	47.74	24.68
1596.3	92.0(88.2)	85.3	60.82	67.69	73.77	77.52	79.82	79.32	77.50	71.37	61.97	46.85	23.23
1655.1	91.0(87.4)	84.6	59.75	67.02	73.83	77.44	79.20	78.53	76.08	69.83	60.20	44.63	20.25

RUN NUMBER	= 639.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 514.000
SECONDARY TEMPERATURE (R)	= 516.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .675
PRIMARY VELOCITY (FT/SEC)	= 1365.767
MASS FLOW RATIO	= 1.120
PRIMARY MASS FLOW (LB/SEC)	= .428
THRUST (LBS)	= 31.897
ENVIRONMENTAL TEMPERATURE (R)	= 511.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.840
ENVIRONMENTAL HUMIDITY (PER CENT)	= 64.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .112
INSTRUMENTATION NOISE FLOOR (DB)	= 70.564

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.04269E+01	140.2
500	3.26162E-02	115.1
1000	2.84419E-01	124.5
2000	1.44434E+00	131.6
4000	2.75485E+00	134.4
8000	3.09571E+00	134.9
16000	1.83408E+00	132.6
31500	9.80844E-01	129.9

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	165.1
20000	168.2
40000	171.2
80000	174.2

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	94.3	105.1	110.9	111.5	110.8	108.0	103.2	116.9
20.0	94.7	104.6	111.6	112.6	112.7	110.0	105.3	118.3
25.0	92.7	103.3	110.8	112.6	112.6	109.1	104.0	117.9
30.0	90.8	101.5	109.3	112.5	112.0	107.6	102.9	117.1
35.0	89.1	99.3	107.2	111.7	111.6	107.8	104.1	116.5
40.0	86.3	96.6	104.0	108.6	109.7	107.6	104.4	114.5
45.0	84.5	93.2	100.8	105.1	107.2	106.0	103.5	112.1
50.0	82.2	90.4	98.3	102.7	105.1	104.5	102.8	110.2
55.0	81.8	89.9	96.7	101.0	103.2	103.0	101.9	108.8
60.0	81.4	88.7	96.0	99.7	101.9	101.9	100.8	107.6
65.0	81.0	88.7	95.2	98.9	100.7	100.9	99.5	106.5
70.0	81.4	88.4	94.3	98.1	99.9	99.6	99.0	105.7
75.0	81.0	87.9	94.0	97.3	98.8	99.0	98.0	104.8
80.0	81.0	87.9	93.5	96.9	98.0	98.0	97.5	104.2
85.0	80.1	87.1	92.9	96.2	97.5	97.5	97.0	103.6
90.0	79.6	86.1	92.6	95.6	97.3	97.0	96.5	103.2
95.0	79.6	86.4	92.0	95.2	97.8	97.0	96.0	103.1
100.0	78.5	85.9	91.3	94.6	97.1	96.5	95.5	102.5
105.0	78.5	85.0	91.1	93.8	96.2	96.0	95.0	101.9
110.0	77.3	84.1	90.6	93.6	95.9	95.5	94.4	101.4
115.0	77.3	83.8	90.1	93.1	96.0	95.5	94.3	101.3

MODEL THRUST = 31.897 FULL SCALE THRUST = 20000.000

L*	PNOB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 20.0	39.9	79.9	159.7	319.5	639.0	1258.0	2515.9	4991.9	9983.8	19967.7
5795.6	91.1(90.6)	89.0	69.53	78.32	83.60	84.09	82.54	77.06	66.00	48.78	17.59	-37.36	-126.08
4389.7	96.2(95.4)	93.0	70.40	80.27	87.14	87.92	87.23	82.55	73.07	59.31	34.98	7.33	-75.20
3549.3	98.2(97.2)	94.6	70.24	80.81	88.21	89.84	89.20	84.05	75.14	63.43	43.16	8.35	-47.15
3000.0	99.3(98.1)	95.4	69.82	80.47	88.21	91.22	90.24	84.41	76.50	66.14	48.55	18.66	-28.72
2615.2	100.5(99.0)	95.9	69.31	79.46	87.38	91.69	91.14	86.00	79.54	70.12	54.40	27.96	-13.72
2333.6	100.2(98.3)	94.8	67.52	77.78	85.09	89.53	90.28	87.04	81.34	72.61	58.26	34.34	-3.17
2121.3	99.0(96.8)	93.2	66.52	75.20	82.73	86.87	88.70	86.52	81.61	73.41	60.09	38.08	3.70
1950.1	98.2(95.9)	92.0	64.91	73.13	80.93	85.20	87.27	85.73	81.92	74.12	61.59	41.06	9.08
1811.2	97.5(94.6)	91.1	65.11	72.73	79.97	84.16	86.02	85.00	81.86	74.36	62.45	43.04	12.96
1732.1	97.0(94.0)	90.5	65.19	72.49	79.76	83.35	85.26	84.41	81.40	74.15	62.72	44.20	15.68
1655.1	96.5(93.4)	89.9	65.16	72.89	79.29	82.92	84.46	83.87	80.64	73.58	62.53	44.70	17.21
1596.3	96.2(92.8)	89.3	65.90	72.81	78.76	82.46	83.97	82.89	80.62	73.70	62.93	45.63	19.02
1552.9	95.8(92.3)	88.8	65.71	72.65	78.66	81.93	83.09	82.56	79.87	73.06	62.50	45.58	19.61
1523.1	95.5(91.7)	88.3	65.88	72.82	78.35	81.84	82.53	81.78	79.66	72.93	62.52	45.87	20.36
1505.7	94.9(91.3)	87.9	65.07	72.05	77.82	81.01	82.08	81.43	79.23	72.54	62.22	45.72	20.45
1500.0	94.4(90.8)	87.5	64.80	71.12	77.48	80.91	81.95	80.90	78.80	72.12	61.82	45.38	20.19
1505.7	94.1(90.9)	87.4	64.57	71.33	76.99	80.02	82.60	80.86	78.25	71.56	61.24	44.74	19.47
1523.1	93.3(90.1)	86.6	63.38	70.72	76.13	79.32	81.96	80.25	77.59	70.85	60.44	43.79	18.26
1552.9	92.6(89.3)	85.8	63.21	69.73	75.80	78.40	80.47	79.63	76.94	70.13	59.58	42.66	16.69
1596.3	91.7(88.5)	85.1	61.73	68.97	75.07	77.94	79.93	78.80	76.03	69.11	58.36	41.06	14.63
1655.1	91.1(88.0)	84.6	61.42	67.93	74.22	77.15	79.70	78.45	75.45	68.39	57.34	39.50	12.82

AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 440.000
PRIMARY TEMPERATURE (R)	= 4.100
SECONDARY TEMPERATURE (R)	= 515.000
PRIMARY PRESSURE RATIO	= 521.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= .748
MASS FLOW RATIO	= 1367.095
PRIMARY MASS FLOW (LB/SEC)	= 1.293
THRUST (LBS)	= .428
ENVIRONMENTAL TEMPERATURE (R)	= 35.766
ENVIRONMENTAL PRESSURE (IN.HG)	= 511.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.840
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 64.000
INSTRUMENTATION NOISE FLOOR (DB)	= .112
	= 70.564

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.34594E+01	141.3
500	1.07262E-01	120.3
1000	6.64786E-01	128.1
2000	1.91231E+00	132.8
4000	3.37712E+00	135.3
8000	3.74075E+00	135.7
16000	2.34455E+00	133.7
31500	1.33266E+00	131.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	165.8
20000	168.8
40000	171.8
80000	174.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	96.8	106.4	111.1	111.9	110.5	107.8	102.6	117.0
20.0	96.0	105.8	112.1	112.9	112.8	109.5	104.7	118.5
25.0	95.3	104.8	111.8	113.7	113.6	110.1	105.2	118.9
30.0	93.8	103.1	110.3	113.4	113.2	109.7	105.8	118.4
35.0	92.1	101.1	108.1	112.0	112.2	108.9	105.6	117.1
40.0	90.7	99.3	105.3	109.7	110.6	108.1	105.4	115.4
45.0	90.7	97.8	102.8	106.5	108.3	107.2	104.7	113.5
50.0	90.4	96.8	99.7	103.7	106.0	105.7	103.9	111.4
55.0	90.1	96.3	98.9	102.0	104.3	104.5	103.0	110.2
60.0	89.5	96.2	98.1	101.1	102.9	102.9	102.2	109.0
65.0	89.3	96.2	97.7	100.3	101.9	101.6	101.7	108.2
70.0	89.5	96.2	97.2	100.0	101.0	101.0	100.5	107.5
75.0	88.8	95.7	96.8	99.3	100.2	100.5	99.5	106.8
80.0	88.8	95.7	96.1	98.7	99.1	100.0	99.0	106.2
85.0	89.5	96.0	97.0	98.5	98.7	99.5	98.5	106.1
90.0	89.9	95.8	95.9	98.1	98.9	99.0	98.0	105.7
95.0	89.8	95.9	95.8	97.3	98.6	98.5	97.5	105.3
100.0	89.6	95.5	95.4	96.8	98.3	98.0	97.0	104.9
105.0	88.8	95.8	94.9	96.5	97.7	98.0	97.0	104.7
110.0	89.1	95.6	95.0	96.3	97.7	97.5	96.5	104.4
115.0	88.4	95.8	94.8	96.0	97.7	97.5	96.5	104.4

MODEL THRUST = 35.766 FULL SCALE THRUST = 20000.000

LP	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 21.1	42.3	84.6	169.2	338.3	676.4	1332.1	2664.1	5286.0	10572.0	21144.0
5795.6	98.8(98.3)	88.7	69.55	79.12	83.76	83.53	81.67	76.07	64.05	45.93	13.19	-44.16	-136.09
4305.7	95.4(95.2)	92.7	71.23	80.94	87.19	87.72	86.72	81.22	71.32	56.88	31.37	-12.76	-83.05
3549.3	98.9(98.0)	95.1	72.52	81.56	88.72	90.38	89.63	84.34	75.35	63.09	41.87	5.58	-51.88
2888.0	100.4(99.2)	96.1	72.26	81.60	88.75	91.63	90.84	85.86	78.40	67.57	49.18	18.04	-30.99
2619.2	100.9(99.5)	96.0	71.81	80.77	87.69	91.43	91.13	86.50	80.17	70.35	53.93	26.40	-16.72
2333.6	100.8(99.0)	95.2	71.36	80.00	85.88	90.12	90.59	86.96	81.49	72.41	57.43	32.55	-6.26
2121.3	100.1(98.0)	94.0	72.19	79.25	84.21	87.84	89.25	87.04	82.10	73.56	59.68	36.78	1.23
1938.1	99.0(96.7)	92.6	72.80	79.03	81.86	85.69	87.60	86.33	82.32	74.21	61.16	39.79	6.75
1831.2	98.5(96.0)	92.0	72.88	79.31	81.63	84.66	86.52	85.86	82.21	74.44	62.04	41.87	10.77
1732.1	98.0(95.3)	91.4	72.73	79.48	81.36	84.24	85.65	84.85	82.04	74.52	62.63	43.39	13.81
1655.1	97.9(95.1)	91.6	72.96	79.88	81.31	83.79	85.14	83.98	82.13	74.81	63.31	44.79	16.40
1598.3	97.4(94.6)	90.7	73.44	80.11	81.16	83.78	84.48	83.75	81.33	74.16	62.97	45.00	17.51
1552.9	96.9(94.0)	90.3	73.00	79.94	80.74	83.34	83.93	83.52	80.67	73.62	62.65	45.08	18.25
1523.1	96.8(93.7)	89.9	73.17	80.11	80.67	82.89	83.08	83.18	80.45	73.47	62.66	45.37	19.00
1505.7	96.4(93.6)	90.0	73.95	80.46	82.06	82.80	82.77	82.80	80.01	73.09	62.36	45.24	19.13
1500.8	96.0(93.1)	89.6	74.46	80.33	80.42	82.43	83.01	82.31	79.56	72.64	61.94	44.88	18.86
1505.7	95.6(92.7)	89.1	74.27	80.38	80.01	81.69	82.70	81.79	79.09	72.16	61.43	44.31	18.21
1523.1	94.9(92.1)	88.6	74.01	79.85	79.71	81.05	82.22	81.17	78.39	71.42	60.60	43.32	16.95
1552.9	94.5(91.7)	88.2	73.00	80.03	79.04	80.56	81.43	80.98	78.17	71.12	60.15	42.58	15.76
1598.3	93.9(91.1)	87.7	73.11	79.53	78.90	80.15	81.18	80.26	77.37	70.20	59.01	41.04	13.55
1655.1	93.4(90.8)	87.3	72.08	79.47	78.37	79.49	80.93	79.90	76.94	69.82	58.13	39.61	11.21

RUN NUMBER	= 441.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 517.000
SECONDARY TEMPERATURE (R)	= 523.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 4.856
VELOCITY RATIO	= .396
PRIMARY VELOCITY (FT/SEC)	= 1369.747
MASS FLOW RATIO	= 1.223
PRIMARY MASS FLOW (LB/SEC)	= .428
THRUST (LBS)	= 26.148
ENVIRONMENTAL TEMPERATURE (R)	= 513.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.780
ENVIRONMENTAL HUMIDITY (PER CENT)	= 83.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .845
INSTRUMENTATION NOISE FLOOR (DB)	= 62.585

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.78030E+00	134.4
500	1.56713E-02	112.0
1000	1.01299E-01	120.1
2000	4.62598E-01	126.7
4000	1.93390E-01	129.0
8000	7.21880E-01	128.6
16000	4.57100E-01	126.6
31500	2.28161E-01	123.6

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.3
20000	163.3
40000	166.3
80000	169.3

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	92.0	100.5	103.4	104.8	99.2	96.0	93.2	109.7
20.0	91.4	99.7	105.7	105.6	100.5	95.0	92.7	110.0
25.0	89.8	98.4	105.5	106.3	102.6	98.2	93.2	110.5
30.0	87.6	96.6	104.0	106.8	103.8	98.0	93.9	110.4
35.0	85.7	94.3	102.2	105.8	104.6	99.8	96.8	110.0
40.0	83.4	91.5	99.4	103.4	103.7	100.6	96.1	108.5
45.0	82.0	89.7	97.0	101.1	102.3	100.8	96.7	107.2
50.0	80.6	87.8	94.5	98.4	100.3	99.4	96.2	105.3
55.0	80.1	86.8	93.6	97.2	99.4	98.9	96.0	104.5
60.0	79.5	86.2	92.9	96.5	98.7	98.5	95.5	104.0
65.0	79.0	86.1	91.9	95.5	97.6	97.5	95.0	103.1
70.0	78.4	85.8	91.0	94.9	96.8	96.5	94.5	102.3
75.0	78.8	85.2	90.8	94.2	96.2	96.0	94.0	101.7
80.0	77.9	84.2	90.1	93.6	95.8	95.5	93.5	101.2
85.0	78.8	83.9	89.5	93.0	95.5	95.0	93.0	100.8
90.0	76.8	83.6	89.1	92.8	95.5	95.0	92.5	100.6
95.0	76.5	83.1	88.7	92.5	95.5	94.5	92.0	100.3
100.0	76.3	82.6	87.9	91.6	95.2	94.0	91.5	99.8
105.0	75.6	82.2	87.9	91.5	94.7	94.0	91.5	99.6
110.0	75.3	81.7	87.3	90.7	94.3	93.5	91.0	99.1
115.0	75.0	80.6	87.2	90.9	93.8	93.0	91.0	98.8

MODEL THRUST = 26.148 FULL SCALE THRUST = 20000.000

L#	PNDB,	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 18.1	36.2	72.3	144.6	289.3	578.5	1139.0	2278.0	4519.8	9039.5	18079.1
5795.6	83.8(82.4)	83.3	66.14	74.59	79.46	78.55	72.09	66.53	58.14	42.38	13.73	-37.21	-120.41
4305.7	86.8(85.8)	86.2	67.91	76.19	82.19	81.89	76.05	68.77	62.29	49.84	27.23	-12.05	-75.82
3549.3	89.6(88.6)	88.5	68.00	76.81	83.86	84.45	80.18	72.41	65.98	55.16	36.45	4.09	-48.08
3008.8	92.1(90.9)	89.9	67.44	76.47	83.76	86.43	82.97	75.97	68.93	59.33	43.05	15.23	-29.33
2615.2	93.9(92.5)	90.5	66.74	75.35	83.18	86.70	85.02	79.24	71.68	62.92	48.34	23.71	-15.52
2333.6	94.9(92.7)	90.0	65.43	73.50	81.37	85.29	85.19	81.16	74.38	66.25	52.92	30.62	-4.72
2121.3	94.6(92.4)	89.4	64.83	72.57	79.86	83.78	84.73	82.32	76.15	68.48	56.09	35.54	3.15
1950.1	93.8(91.3)	88.2	64.19	71.40	78.00	81.77	83.45	81.76	76.66	69.35	57.68	38.48	8.35
1831.2	93.9(91.1)	88.0	64.21	70.91	77.71	81.23	83.09	81.88	77.24	70.21	59.10	40.96	12.58
1732.1	94.0(91.1)	87.9	64.09	70.81	77.44	80.97	82.90	82.04	77.35	70.53	59.87	42.54	15.54
1695.1	93.7(90.7)	87.4	64.07	71.11	76.90	80.44	82.29	81.48	77.41	70.77	60.44	43.75	17.82
1598.3	93.3(90.1)	87.0	63.70	71.11	76.35	80.07	81.81	80.83	77.28	70.77	60.70	44.50	19.38
1552.9	93.1(89.9)	86.7	64.40	70.80	76.33	79.70	81.47	80.58	77.08	70.67	60.79	44.95	20.43
1523.1	92.8(89.5)	86.4	63.63	69.49	75.80	79.21	81.22	80.28	76.83	70.48	60.74	45.14	21.03
1505.7	92.4(89.2)	86.0	62.67	69.73	75.30	78.75	81.04	79.91	76.46	70.15	60.48	45.03	21.17
1500.8	92.3(89.1)	85.9	62.71	69.50	74.94	78.53	80.99	79.95	75.98	69.68	60.04	44.63	20.85
1505.7	91.8(88.7)	85.6	62.39	68.90	74.49	78.25	80.96	79.41	75.46	69.14	59.48	44.02	20.16
1523.1	91.3(88.2)	85.0	61.99	68.36	73.59	77.78	80.65	78.77	74.82	68.47	58.73	43.13	19.03
1552.9	90.8(87.6)	84.5	61.20	67.72	73.03	76.93	79.95	78.58	74.61	68.19	58.32	42.47	17.95
1598.3	90.0(86.9)	83.8	60.84	66.98	72.40	75.96	79.33	77.88	73.78	67.25	57.18	40.98	15.88
1655.1	89.2(86.1)	83.1	59.98	65.58	72.18	75.77	78.42	76.97	73.35	66.71	56.38	39.69	13.76

RUN NUMBER	= 442.000
AXIAL POSITION OF PRIMARY NAT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 520.000
SECONDARY TEMPERATURE (R)	= 533.000
PRIMARY PRESSURE RATIO	= 3.560
AREA RATIO	= 4.856
VELOCITY RATIO	= .682
PRIMARY VELOCITY (FT/SEC)	= 1373.715
MASS FLOW RATIO	= 2.733
PRIMARY MASS FLOW (LB/SEC)	= .425
THRUST (LBS)	= 51.914
ENVIRONMENTAL TEMPERATURE (R)	= 514.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.780
ENVIRONMENTAL HUMIDITY (PER CENT)	= 50.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .050
INSTRUMENTATION NOISE FLOOR (DB)	= 63.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.05133E+00	137.0
500	6.72305E-02	118.3
1000	3.73056E-01	125.7
2000	1.05309E+00	130.2
4000	1.20940E+00	130.8
8000	1.04671E+00	130.2
16000	7.81759E-01	128.9
31500	5.20091E-01	127.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	139.9
20000	142.9
40000	145.9
80000	148.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.5	105.4	106.9	103.1	96.8	96.0	91.8	110.8
20.0	97.5	105.3	107.7	103.8	97.1	96.9	92.0	111.2
25.0	96.1	104.0	107.6	105.0	98.1	96.6	91.9	111.1
30.0	94.5	102.4	107.5	106.0	99.7	95.8	92.8	111.2
35.0	92.3	100.2	106.1	106.3	101.8	97.2	94.1	110.7
40.0	89.8	97.9	103.8	105.5	103.3	99.2	96.0	110.8
45.0	87.8	95.3	101.9	104.1	103.2	100.2	98.7	109.1
50.0	86.1	93.6	100.2	102.6	102.3	100.3	97.9	108.2
55.0	85.6	93.0	99.3	101.8	102.1	100.8	99.0	108.0
60.0	85.2	92.5	98.3	100.9	101.5	100.3	99.3	107.4
65.0	85.1	91.9	97.4	100.3	101.5	100.9	99.7	107.3
70.0	84.6	91.8	96.8	99.5	100.2	100.0	99.2	106.6
75.0	84.9	91.2	96.2	99.0	99.9	100.0	99.0	106.2
80.0	84.4	90.6	95.8	98.7	99.7	99.5	98.5	105.8
85.0	83.5	89.9	95.1	97.9	99.5	99.5	98.0	105.4
90.0	83.4	89.2	94.8	97.8	99.7	99.3	97.5	105.3
95.0	82.5	88.7	93.9	97.2	99.4	99.0	97.5	104.9
100.0	82.0	88.4	93.5	96.9	99.5	98.7	97.0	104.7
105.0	81.8	87.5	93.0	96.8	99.4	99.0	96.5	104.6
110.0	80.6	86.8	93.2	96.6	99.8	98.5	96.0	104.5
115.0	80.4	85.9	92.8	96.1	99.4	98.5	96.0	104.2

MODEL THRUST = 51.914 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	25.5	OCTAVE 50.9	BAND 101.9	SOUND 203.8	PRESSURE 407.6	LEVELS 815.2	1604.9	3209.7	6368.5	12737.0	25473.9
5795.6	80.6(80.4)	81.5	69.67	76.46	77.83	73.50	65.81	61.26	48.58	27.19	-11.05	-76.73	-179.42
4385.7	84.4(83.9)	84.4	71.03	78.85	81.06	76.79	68.99	64.02	54.77	37.85	8.18	-42.25	-120.69
3549.3	87.1(86.6)	86.2	71.55	79.42	82.87	79.92	72.16	66.43	58.58	44.32	19.74	-21.65	-85.70
3000.0	89.7(89.0)	87.7	71.41	79.27	84.23	82.51	75.42	69.67	62.28	49.76	28.52	-6.93	-61.53
2615.2	91.5(90.6)	88.4	70.34	78.23	84.07	84.08	78.84	72.63	65.66	54.37	35.47	4.18	-43.80
2333.6	92.7(91.5)	88.5	68.90	76.91	82.82	84.30	81.46	75.90	69.29	58.89	41.70	13.46	-29.68
2121.3	93.5(92.1)	88.2	67.68	75.15	81.71	83.71	82.29	77.90	71.36	61.63	45.73	19.79	-19.70
1958.1	93.9(92.2)	87.9	66.72	74.19	80.71	82.92	82.19	78.88	73.66	64.44	49.54	25.36	-11.32
1831.2	94.7(92.8)	88.2	66.75	74.18	80.43	82.78	82.61	80.05	75.68	66.87	52.74	29.93	-4.56
1732.1	94.9(92.8)	88.0	66.89	74.14	79.84	82.32	82.50	80.21	76.65	68.16	54.63	32.89	.10
1655.1	95.6(93.4)	88.3	67.16	73.97	79.35	82.18	82.95	81.31	77.66	69.41	56.35	35.45	3.98
1596.2	95.3(93.1)	87.8	66.98	74.10	79.08	81.61	81.95	80.72	77.58	69.51	56.81	36.54	6.09
1552.9	95.5(93.1)	87.7	67.47	73.79	78.74	81.40	81.88	81.03	77.76	69.83	57.39	37.66	7.89
1523.1	95.2(92.9)	87.6	67.13	73.37	78.50	81.26	81.86	80.73	77.50	69.66	57.40	37.93	8.73
1505.7	94.9(92.6)	87.3	66.40	72.76	77.86	80.59	81.79	80.84	77.15	69.37	57.22	37.93	9.03
1500.0	94.6(92.3)	87.2	66.29	72.11	77.66	80.54	82.03	80.65	76.67	68.92	56.40	37.57	8.77
1505.7	94.4(92.0)	86.8	65.32	71.48	76.74	79.88	81.73	80.34	76.63	68.85	56.69	37.41	8.51
1523.1	93.8(91.5)	86.4	64.72	71.14	76.21	79.44	81.69	79.87	75.98	68.15	55.89	36.42	7.22
1552.9	93.4(91.1)	86.1	64.20	70.05	75.54	79.23	81.45	80.03	75.26	67.34	54.89	35.10	5.39
1596.2	93.0(90.9)	85.8	63.00	69.09	75.52	78.77	81.54	79.25	74.41	66.35	53.64	33.38	2.92
1655.1	92.3(90.2)	85.1	62.48	67.89	74.74	77.93	80.83	78.87	73.95	65.70	52.64	31.74	.27

AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 525.000
SECONDARY TEMPERATURE (R)	= 535.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 4.856
VELOCITY RATIO	= .751
PRIMARY VELOCITY (FT/SEC)	= 1380.304
MASS FLOW RATIO	= 3.143
PRIMARY MASS FLOW (LB/SEC)	= .423
THRUST (LBS)	= 60.951
ENVIRONMENTAL TEMPERATURE (R)	= 514.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.780
ENVIRONMENTAL HUMIDITY (PER CENT)	= 49.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .063
INSTRUMENTATION NOISE FLOOR (DB)	= 65.566

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.93538E+00	138.4
500	1.08063E-01	120.3
1000	5.62178E-01	127.5
2000	1.47564E+00	131.7
4000	1.88433E+00	132.3
8000	1.47421E+00	131.7
16000	9.88605E-01	129.9
31500	6.42551E-01	128.1

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.6
20000	163.6
40000	166.6
80000	169.6

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	100.5	107.1	108.0	104.3	98.0	95.7	92.0	112.2
20.0	99.5	106.8	108.5	105.3	98.8	95.1	91.8	112.4
25.0	98.6	105.8	109.1	106.2	100.0	96.6	93.9	112.7
30.0	96.3	104.3	108.4	106.7	101.2	97.2	94.3	112.2
35.0	94.3	102.2	107.4	107.3	102.5	98.2	95.0	111.9
40.0	91.7	99.8	105.9	107.0	104.3	100.0	96.1	111.5
45.0	90.0	97.2	103.7	105.8	104.5	101.3	98.6	110.8
50.0	88.5	95.7	102.0	104.5	104.4	102.3	99.4	110.1
55.0	88.0	94.7	100.7	103.5	103.7	101.8	99.8	109.3
60.0	86.9	94.7	100.3	102.6	103.3	102.1	100.7	109.1
65.0	87.1	93.8	99.4	101.9	102.6	101.7	100.7	108.6
70.0	86.8	93.3	98.7	101.2	101.9	101.2	99.8	107.9
75.0	86.4	92.8	97.9	100.5	101.5	101.0	99.5	107.4
80.0	86.4	92.3	97.4	100.2	101.3	100.5	99.0	107.1
85.0	86.0	91.9	97.0	99.5	101.1	100.0	98.5	106.8
90.0	85.3	91.5	96.5	99.4	101.4	100.0	98.5	106.6
95.0	84.8	90.2	95.9	98.9	100.8	100.0	98.0	106.2
100.0	84.3	89.9	95.4	98.6	101.1	99.5	98.0	106.1
105.0	83.2	89.5	95.1	98.3	100.8	99.5	97.5	105.7
110.0	82.5	88.9	94.9	98.0	101.1	99.5	97.5	105.8
115.0	82.7	88.0	94.5	98.1	101.1	99.0	97.0	105.5

MODEL THRUST = 60.951 FULL SCALE THRUST = 20000.000

LS	PNDB.	OASPL	27.6	55.2	110.4	220.8	441.6	883.3	1739.0	3477.9	6900.6	13801.2	27602.4
				OCTAVE BAND SOUND PRESSURE LEVELS									
3795.6	81.2(81.1)	82.2	70.98	77.47	78.24	73.90	66.02	59.55	46.61	23.65	-17.18	-86.67	-194.14
3385.7	85.0(84.7)	84.9	72.37	79.63	81.23	77.54	69.78	63.04	52.65	34.54	2.92	-50.40	-132.46
3049.3	88.2(87.7)	87.0	73.29	80.50	83.69	80.43	73.27	67.26	58.87	43.65	17.49	-26.24	-93.22
2808.0	90.2(89.5)	88.0	72.47	80.39	84.39	82.45	76.09	70.01	62.29	48.98	26.38	-11.04	-68.12
2615.2	92.0(91.2)	88.8	71.65	79.53	84.64	84.28	78.78	72.60	65.22	53.21	33.14	.14	-50.00
2333.6	93.3(92.3)	89.2	70.07	78.10	84.13	84.98	81.68	75.67	68.13	57.09	38.86	9.08	-35.98
2121.3	94.2(92.9)	89.0	69.17	76.38	82.75	84.68	82.74	78.04	71.96	61.66	44.81	17.47	-23.77
1930.1	95.0(93.5)	89.0	68.35	75.99	81.84	84.07	83.43	79.96	73.93	64.19	48.41	22.94	-15.36
1831.2	95.2(93.6)	88.8	68.51	75.12	81.06	83.72	83.39	80.23	75.29	65.99	51.03	27.02	-8.98
1732.1	95.8(93.9)	89.0	67.83	75.60	81.18	83.31	83.90	81.13	76.90	67.93	53.63	30.75	-3.67
1655.1	96.0(94.1)	88.8	68.47	75.16	80.65	82.97	83.21	81.18	77.54	68.84	55.04	33.05	.22
1596.3	95.7(93.7)	88.5	68.42	74.92	80.31	82.63	82.85	81.04	77.13	68.63	55.21	33.90	2.12
1552.9	95.7(93.6)	88.3	68.27	74.71	79.76	82.17	82.77	81.15	77.15	68.80	55.67	34.85	3.86
1523.1	95.9(93.9)	88.1	68.44	74.33	79.42	82.05	82.72	80.82	76.90	68.85	55.71	35.23	4.78
1505.7	95.1(93.1)	87.8	68.13	74.07	79.11	81.50	82.64	80.45	76.57	68.38	55.55	35.28	5.14
1500.0	95.2(93.1)	87.8	67.45	73.65	78.68	81.40	82.95	80.49	76.61	68.45	55.66	35.45	5.41
1505.7	94.6(92.5)	87.3	66.96	72.37	78.04	80.82	82.34	80.45	76.06	67.87	55.05	34.77	4.63
1523.1	94.4(92.4)	87.1	66.37	72.00	77.40	80.47	82.57	79.95	75.91	67.67	54.73	34.25	3.78
1552.9	93.8(91.8)	86.6	65.13	71.35	76.95	79.93	82.02	79.65	75.13	66.78	53.44	32.82	1.83
1596.3	93.6(91.6)	86.3	64.11	70.51	76.68	79.42	82.04	79.30	74.77	66.27	52.85	31.56	.24
1655.1	92.9(91.0)	85.8	64.00	69.31	75.80	79.17	81.70	78.48	73.85	65.15	51.35	29.36	-3.47

RUN NUMBER	= 999.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 522.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 0.788
VELOCITY RATIO	= .355
PRIMARY VELOCITY (FT/SEC)	= 1376.354
MASS FLOW RATIO	= 2.444
PRIMARY MASS FLOW (LB/SEC)	= .427
THRUST (LBS)	= 34.052
ENVIRONMENTAL TEMPERATURE (R)	= 515.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.780
ENVIRONMENTAL HUMIDITY (PER CENT)	= 49.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.78076E+00	137.6
500	1.96338E-02	112.9
1000	1.17377E-01	120.7
2000	5.37417E-01	127.3
4000	1.33602E+00	131.3
8000	1.78646E+00	132.5
16000	1.30474E+00	131.2
31500	6.79107E-01	128.3

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	162.3
20000	165.3
40000	168.3
80000	171.3

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	SPL	OCTAVE BAND SOUND PRESSURE LEVELS 1000	2000	4000	8000	16000	31500	OVER ALL
15.0	93.2	100.0	105.1	106.7	107.0	104.3	99.3	112.9
20.0	92.1	100.1	106.4	108.7	108.8	105.4	100.4	114.0
25.0	90.3	99.0	106.3	109.8	109.6	106.3	101.8	114.7
30.0	88.6	97.7	104.8	109.5	109.7	107.2	103.0	114.6
35.0	86.8	95.4	102.9	108.2	109.5	107.4	103.4	114.1
40.0	84.8	93.2	100.5	105.9	108.2	106.8	103.2	112.7
45.0	82.8	90.6	97.7	102.9	105.5	104.9	102.0	110.4
50.0	81.4	89.0	95.5	100.2	103.6	103.5	101.6	108.7
55.0	80.8	88.2	94.2	98.7	101.6	102.3	101.1	107.4
60.0	80.8	86.9	93.2	97.2	100.3	100.7	99.4	105.9
65.0	79.9	86.0	92.5	96.5	99.0	99.6	98.0	104.8
70.0	79.9	85.8	92.1	95.6	97.7	98.4	97.0	103.7
75.0	79.6	85.7	91.2	94.8	96.8	97.7	96.5	103.0
80.0	78.6	85.3	91.0	94.5	96.0	97.0	95.5	102.3
85.0	79.0	84.8	90.1	93.5	95.3	96.5	95.0	101.7
90.0	77.8	84.2	90.1	93.1	94.9	96.0	94.5	101.2
95.0	77.4	83.8	89.4	92.3	94.0	95.5	94.0	100.6
100.0	76.6	83.3	88.6	91.8	94.1	95.0	93.5	100.2
105.0	76.6	82.6	87.9	91.0	93.1	94.5	93.0	99.7
110.0	75.6	81.9	88.3	90.6	93.5	94.0	92.5	99.3
115.0	75.6	81.3	87.6	90.0	92.8	93.5	92.0	98.7

MODEL THRUST = 34.052 FULL SCALE THRUST = 10000.000

L1	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 29.2	58.4	116.7	233.4	466.8	933.7	1838.2	3676.3	7294.3	14588.5	29177.0
8795.6	83.6	83.3	80.6	63.17	70.73	74.78	75.76	74.93	67.22	52.32	28.21	-14.48	-86.69	-197.50
4389.7	88.0	88.2	84.8	68.46	72.40	78.61	80.37	79.21	72.43	59.97	41.00	7.96	-67.41	-132.00
3549.3	91.9	91.4	87.5	64.69	73.18	80.33	83.14	82.23	76.18	65.63	49.70	22.39	-23.60	-92.02
3000.0	94.0	93.2	88.9	64.30	72.87	80.39	84.70	84.05	79.23	69.91	55.99	32.44	-6.39	-65.19
2615.2	95.3	94.3	89.5	63.73	72.21	79.68	84.67	85.22	81.06	72.59	60.07	39.15	6.92	-46.73
2333.6	95.4	94.1	89.0	62.67	71.00	78.72	83.40	85.03	81.78	74.23	62.73	43.74	12.88	-33.53
2121.3	94.1	92.7	87.4	61.52	69.26	76.26	81.25	83.26	81.00	74.49	63.76	46.23	17.90	-24.56
1958.1	93.9	91.8	86.4	60.77	68.38	74.79	79.29	82.06	80.50	75.28	65.19	48.74	22.35	-17.07
1831.2	93.5	91.6	85.6	60.81	68.11	74.12	78.39	80.74	80.01	75.70	66.03	50.49	25.62	-11.44
1732.1	92.7	90.8	84.8	61.29	67.36	73.55	77.44	79.95	79.08	74.82	65.51	50.65	28.96	-8.26
1655.1	92.0	90.0	84.1	60.80	66.83	73.28	77.06	79.13	78.42	74.00	64.97	50.63	27.87	-5.92
1596.3	91.5	89.5	83.4	61.12	66.97	73.24	76.56	78.16	77.58	73.52	64.70	50.77	28.71	-3.99
1552.9	91.2	89.2	83.0	61.04	67.05	72.53	75.97	77.51	77.21	73.36	64.70	51.06	29.52	-2.37
1523.1	90.8	88.8	82.5	60.18	66.97	72.49	75.82	76.93	76.71	72.83	64.08	50.85	29.48	-1.88
1505.7	90.2	88.1	82.0	60.44	66.42	71.73	74.96	76.34	76.32	72.24	63.76	50.44	29.46	-1.55
1500.0	89.8	87.7	81.6	59.56	65.87	71.76	74.54	75.90	75.89	71.82	63.35	50.08	29.17	-1.74
1505.7	89.1	87.0	80.8	59.12	65.42	71.01	73.70	74.98	75.36	71.26	62.78	49.47	28.49	-2.52
1523.1	88.5	86.4	80.4	58.15	64.88	70.13	73.17	74.95	74.71	70.58	62.03	48.80	27.61	-3.92
1552.9	87.7	85.7	79.6	57.99	64.02	69.26	72.16	74.37	74.03	69.87	61.22	47.58	26.04	-5.85
1596.3	87.0	85.0	79.1	56.78	63.03	67.45	71.51	73.95	73.23	69.03	60.22	46.28	24.22	-8.47
1655.1	85.9	84.0	78.1	56.47	62.17	68.40	70.55	72.93	72.30	68.04	59.01	44.66	21.91	-11.88

RUN NUMBER	= 445.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 523.000
SECONDARY TEMPERATURE (R)	= 532.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 9.788
VELOCITY RATIO	= .679
PRIMARY VELOCITY (FT/SEC)	= 1377.672
MASS FLOW RATIO	= 5.273
PRIMARY MASS FLOW (LB/SEC)	= .427
THRUST (LBS)	= 83.644
ENVIRONMENTAL TEMPERATURE (R)	= 515.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.780
ENVIRONMENTAL HUMIDITY (PER CENT)	= 49.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .100
INSTRUMENTATION NOISE FLOOR (DB)	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.47152E+01	141.7
500	1.46863E-01	121.7
1000	6.46566E-01	128.1
2000	2.03497E+00	133.1
4000	3.26337E+00	135.1
8000	3.55734E+00	135.5
16000	2.97204E+00	134.7
31500	2.09403E+00	133.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	162.5
20000	165.5
40000	168.5
80000	171.5

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	102.0	106.9	108.6	108.5	106.4	103.1	98.1	114.6
20.0	100.9	107.0	109.2	109.9	108.5	105.0	99.9	115.5
25.0	99.6	106.0	110.8	111.2	110.1	107.0	103.1	116.7
30.0	97.9	105.3	110.7	111.8	110.6	107.8	104.5	117.1
35.0	95.0	102.9	109.5	112.2	111.7	108.8	105.3	117.3
40.0	92.9	101.1	107.7	110.8	111.7	109.1	106.2	116.7
45.0	91.6	98.8	105.3	108.7	110.4	109.1	106.8	115.5
50.0	90.1	97.1	103.5	106.3	108.1	107.6	106.3	113.7
55.0	89.3	95.7	101.8	104.7	106.3	106.5	106.0	112.5
60.0	89.3	94.8	100.7	103.3	104.8	105.3	105.6	111.4
65.0	89.0	94.8	100.1	102.8	104.2	105.3	104.9	110.9
70.0	88.8	94.1	99.0	102.0	103.3	104.5	104.1	110.1
75.0	87.6	93.5	98.6	101.0	102.1	104.0	103.3	109.3
80.0	87.6	93.2	98.2	100.7	101.7	103.7	102.8	109.0
85.0	87.1	92.6	97.5	99.7	101.0	103.0	102.5	108.3
90.0	87.1	92.1	97.1	99.1	100.5	102.5	101.5	107.7
95.0	86.0	91.4	96.6	98.6	100.0	102.0	101.0	107.2
100.0	85.6	91.2	96.2	98.2	99.0	101.5	100.5	106.6
105.0	84.9	90.6	95.8	97.7	99.0	101.0	100.0	106.2
110.0	83.8	89.8	95.6	97.5	98.0	100.5	99.5	105.7
115.0	84.1	89.0	95.1	97.0	98.0	100.0	99.0	105.3

MODEL THRUST = 83.644 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 32.3	64.7	129.3	258.7	517.4	1034.7	2037.1	4074.2	8083.7	16167.5	32335.0
5795.6	84.2(84.1)	82.3	71.05	75.84	77.34	76.52	72.39	64.07	48.00	21.63	-24.70	-102.11	-219.18
4209.7	88.8(88.9)	85.8	72.37	78.46	80.41	80.54	77.71	70.31	56.82	36.13	.34	-58.97	-148.29
3549.3	92.6(92.2)	88.8	72.76	79.33	83.72	83.85	81.52	75.33	64.63	47.31	17.78	-30.79	-103.65
3000.0	95.1(94.5)	90.7	72.65	80.03	85.29	86.06	83.84	78.40	69.37	54.27	28.84	-12.67	-74.72
2615.2	97.2(96.4)	92.1	70.97	78.88	85.36	87.73	86.35	81.13	72.67	59.12	36.57	-.01	-54.48
2333.6	98.2(97.3)	92.3	69.86	78.01	84.58	87.39	87.41	82.86	75.42	63.01	42.56	9.60	-39.33
2121.3	98.4(97.2)	91.7	69.42	76.63	83.02	86.15	87.09	83.97	77.58	66.02	47.16	16.93	-27.83
1958.1	97.8(96.3)	90.5	68.62	75.58	81.89	84.49	85.61	83.34	78.33	67.43	49.80	21.66	-19.89
1831.2	97.9(96.3)	89.8	68.35	74.77	80.76	83.49	84.46	83.04	79.05	68.66	51.97	25.46	-13.58
1732.1	97.8(96.1)	89.1	68.84	74.39	80.22	82.55	83.44	82.48	79.41	69.43	53.48	29.24	-8.85
1655.1	97.9(96.1)	88.1	68.93	74.70	79.99	82.48	83.32	82.92	79.38	69.71	54.33	30.08	-5.49
1596.9	97.5(95.8)	88.7	69.08	74.40	79.15	81.95	82.71	82.58	79.11	69.67	54.74	31.24	-3.18
1552.9	97.1(95.2)	88.1	68.14	73.98	79.04	81.26	81.80	82.31	78.63	69.37	54.76	31.82	-1.74
1523.1	96.9(95.1)	88.0	68.31	73.86	78.86	81.12	81.59	82.29	78.49	69.36	54.96	32.40	-.58
1505.7	96.9(94.7)	87.4	67.85	73.54	78.21	80.22	81.00	81.70	78.27	69.20	54.94	32.61	-.03
1500.0	95.8(93.9)	86.9	67.88	72.92	77.82	79.68	80.53	81.20	77.33	68.28	54.67	31.81	-.71
1505.7	95.2(93.4)	86.3	66.83	72.17	77.34	79.09	79.96	80.69	76.77	67.70	53.44	31.11	-1.53
1523.1	94.5(92.7)	85.6	66.28	71.82	76.77	78.58	78.86	80.06	76.15	67.00	52.62	30.06	-2.92
1552.9	93.8(92.0)	85.0	65.40	71.12	76.27	77.97	78.68	79.32	75.38	66.12	51.51	28.57	-4.99
1590.3	92.9(91.2)	84.2	64.10	70.03	75.78	77.93	77.88	78.57	74.47	65.03	50.10	26.61	-7.81
1655.1	92.8(90.3)	83.5	64.07	68.93	74.93	76.67	77.10	77.63	73.49	63.81	48.44	24.19	-11.39

RUN NUMBER	= 446.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 525.000
SECONDARY TEMPERATURE (R)	= 533.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 9.788
VELOCITY RATIO	= .749
PRIMARY VELOCITY (FT/SEC)	= 1383.304
MASS FLOW RATIO	= 6.078
PRIMARY MASS FLOW (LB/SEC)	= .427
THRUST (LBS)	= 101.576
ENVIRONMENTAL TEMPERATURE (R)	= 515.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 49.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .112
INSTRUMENTATION NOISE FLOOR (DB)	= 70.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.82607E+01	142.6
500	2.50534E-01	124.0
1000	1.05131E+00	130.2
2000	2.72009E+00	134.3
4000	4.03372E+00	136.1
8000	4.39037E+00	136.4
16000	3.60828E+00	135.6
31500	2.20636E+00	133.4

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	162.5
20000	165.6
40000	168.6
80000	171.6

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	104.3	109.2	109.3	108.9	107.6	104.7	99.5	115.7
20.0	103.2	109.2	111.1	110.5	109.5	106.8	101.5	117.0
25.0	102.3	108.6	111.7	111.5	110.4	106.9	102.7	117.4
30.0	99.5	106.9	111.8	112.1	110.8	108.3	105.6	117.7
35.0	97.6	105.2	110.4	112.2	111.4	108.4	104.7	117.4
40.0	95.6	103.0	108.9	112.0	112.3	109.3	105.9	117.4
45.0	93.8	100.7	106.6	109.8	111.2	109.4	106.5	116.2
50.0	92.1	98.7	104.6	108.0	109.8	108.9	106.7	115.1
55.0	91.1	97.8	102.8	106.0	107.9	107.5	106.4	113.5
60.0	91.0	97.6	102.3	105.2	106.1*	106.1	105.2	112.3
65.0	91.0	96.6	101.9	104.6	105.6	106.5	105.3	112.2
70.0	90.7	96.1	100.7	103.5	104.3	105.5	104.7	111.2
75.0	90.3	95.4	100.0	102.8	103.8	105.0	103.5	110.5
80.0	90.0	94.9	99.8	102.3	103.5	104.5	103.0	110.0
85.0	89.5	94.3	99.0	101.5	103.0	104.0	102.5	109.4
90.0	89.0	93.9	99.0	100.9	102.5	103.5	102.0	109.0
95.0	88.4	93.6	98.2	100.3	101.5	103.5	101.5	108.5
100.0	87.9	92.8	97.6	99.8	101.5	103.0	101.0	108.1
105.0	87.0	92.6	97.4	99.8	101.0	103.0	100.5	107.9
110.0	86.6	92.2	97.2	99.5	101.0	102.5	100.5	107.6
115.0	86.4	91.2	96.8	99.3	100.5	102.5	100.0	107.3

MODEL THRUST = 101.576 FULL SCALE THRUST = 20000.000

L*	PNDB*	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 35.6	71.3	142.5	285.1	570.1	1140.3	2244.9	4489.7	8908.2	17816.5	35632.9
5795.6	84.3(84.2)	82.6	72.55	77.34	77.18	75.85	72.26	63.69	46.48	17.78	-32.18	-114.70	-237.75
4386.7	89.2(89.0)	86.4	73.87	79.79	81.42	80.25	77.52	70.46	55.82	33.38	-5.17	-48.34	-162.19
3549.3	92.5(92.1)	88.8	74.75	81.01	83.93	83.22	80.74	73.72	62.00	43.26	11.50	-40.20	-116.72
3000.0	95.0(94.5)	90.4	73.45	80.81	85.65	85.37	82.96	77.44	68.34	52.04	24.73	-19.41	-84.58
2615.2	96.3(95.7)	91.3	72.74	80.91	85.40	86.78	84.93	79.41	70.04	55.46	31.27	-7.61	-64.78
2333.6	97.9(97.1)	92.2	71.72	79.09	84.88	87.61	86.99	81.74	73.26	59.92	38.01	2.99	-48.35
2121.3	98.1(97.1)	91.6	70.75	77.63	83.45	86.35	86.85	83.02	75.61	63.20	43.01	10.91	-36.04
1958.1	97.9(96.8)	91.0	69.80	76.35	82.13	85.20	86.25	83.45	77.10	65.42	46.55	16.69	-26.88
1831.2	97.7(96.4)	89.8	69.36	75.99	80.94	83.85	84.60	82.87	77.85	66.73	48.89	20.77	-20.16
1732.1	97.4(96.0)	89.3	69.71	76.14	80.96	83.54	83.73	82.03	77.49	66.81	49.77	23.01	-15.87
1655.1	97.9(96.5)	89.5	70.10	76.73	80.95	83.40	83.67	82.95	78.21	67.87	51.46	25.74	-11.53
1596.3	97.6(96.1)	89.8	70.14	75.40	80.07	82.54	82.77	82.43	78.19	68.11	52.18	27.28	-8.79
1552.9	97.0(95.5)	88.5	69.94	75.06	79.59	82.15	82.54	82.21	77.36	67.48	51.89	27.59	-7.50
1523.1	96.8(95.3)	88.2	69.80	74.69	79.59	81.80	82.40	81.91	77.19	67.44	52.10	28.20	-6.35
1505.7	96.6(94.9)	87.7	69.43	74.21	78.82	81.10	82.00	81.62	76.82	67.14	51.96	28.28	-5.91
1500.0	96.0(94.4)	87.3	68.95	73.83	78.85	80.67	81.54	81.07	76.37	66.72	51.56	27.94	-6.09
1505.7	95.6(93.9)	86.8	68.38	73.68	78.07	79.97	80.53	81.03	75.94	66.17	50.96	27.31	-6.99
1523.1	94.8(93.3)	86.2	67.71	72.88	77.18	79.27	79.63	80.63	75.18	65.43	50.04	26.19	-8.36
1552.9	94.1(92.6)	85.8	66.71	72.29	76.38	78.69	79.70	80.21	74.38	64.49	48.91	24.60	-10.67
1594.3	93.6(92.2)	85.1	66.03	71.56	76.54	78.42	79.61	79.60	73.97	63.90	47.96	23.04	-13.01
1655.1	92.7(91.3)	84.6	65.48	70.14	75.95	78.11	79.43	79.99	73.96	63.62	46.91	20.51	-14.78

RUN NUMBER	= 447.000
AXIAL POSITION OF PRIMARY WRT, SECONDARY (INS.)	= 0.100
PRIMARY TEMPERATURE (R)	= 929.000
SECONDARY TEMPERATURE (R)	= 548.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 1.000
VELOCITY RATIO	= .341
PRIMARY VELOCITY (FT/SEC)	= 1184.620
MASS FLOW RATIO	= .516
PRIMARY MASS FLOW (LB/SEC)	= .168
THRUST (LBS)	= 7.434
ENVIRONMENTAL TEMPERATURE (R)	= 527.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.860
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .022
INSTRUMENTATION NOISE FLOOR (DB)	= 36.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.95576E-01	127.0
500	2.39080E-03	103.8
1000	1.82088E-02	112.6
2000	1.07354E-01	120.3
4000	1.91494E-01	122.8
8000	1.16782E-01	120.7
16000	4.46783E-02	116.5
31500	1.46679E-02	111.7

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.2
20000	161.2
40000	164.3
80000	167.3

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	84.1	92.7	99.6	100.6	95.9	84.8	75.6	104.3
20.0	82.7	92.1	99.8	101.4	96.4	86.4	77.8	104.8
25.0	81.7	91.2	98.9	101.1	96.4	88.1	80.8	104.4
30.0	80.3	89.4	98.0	100.8	97.0	89.9	82.8	104.1
35.0	78.5	86.0	96.4	99.3	96.7	90.8	84.3	102.9
40.0	76.7	85.7	94.0	97.0	95.8	91.5	85.2	101.3
45.0	74.1	83.5	91.1	94.7	94.7	91.4	85.8	99.6
50.0	72.8	81.3	88.8	92.6	93.4	90.7	85.9	98.1
55.0	72.1	...	86.9	90.4	91.5	89.5	85.1	96.4
60.0	70.8	7.9	85.0	89.0	90.2	88.2	84.5	95.0
65.0	69.9	76.9	83.7	87.5	89.0	87.4	83.2	93.8
70.0	68.6	76.2	82.7	86.3	87.8	86.1	82.5	92.7
75.0	68.6	75.5	81.9	85.3	86.6	84.8	81.2	91.6
80.0	68.2	75.1	81.2	84.7	85.9	84.3	80.5	90.9
85.0	68.2	74.8	80.5	83.7	84.9	83.5	80.2	90.1
90.0	67.9	74.4	79.9	83.0	84.2	82.2	78.9	89.2
95.0	67.9	73.8	79.2	82.3	83.5	81.6	78.8	88.6
100.0	66.6	72.9	78.1	81.7	83.1	81.3	78.4	88.1
105.0	66.4	72.1	77.9	81.0	82.2	80.4	77.5	87.3
110.0	65.6	72.1	77.5	80.3	81.4	79.7	76.9	86.6
115.0	65.1	71.0	77.3	80.1	80.8	79.0	76.6	86.2

MODEL THRUST = 7.434 FULL SCALE THRUST = 20000.000

L.	PNOR.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 9.6	19.3	38.6	77.1	154.2	308.5	617.3	1234.6	2410.0	4819.9	9639.8
5795.6	79.3(78.7)	83.8	63.65	72.31	79.17	80.05	75.03	62.93	51.31	42.17	25.70	-4.80	-58.30
4385.7	83.2(82.3)	86.6	64.68	74.67	81.80	83.27	78.08	67.29	56.83	49.18	35.99	12.18	-39.04
3549.3	85.9(84.6)	88.1	65.63	75.10	82.73	84.88	80.00	71.13	62.24	55.48	44.24	24.39	-9.54
3000.0	88.1(86.5)	89.3	65.60	74.74	83.34	86.09	81.96	74.43	66.07	59.89	49.92	32.69	3.54
2615.7	89.3(87.8)	89.3	65.01	74.64	82.87	85.73	82.98	76.68	69.05	63.27	54.20	38.79	13.00
2333.6	89.8(87.5)	88.6	64.21	73.19	81.45	84.43	83.15	78.39	71.08	65.61	57.19	43.11	19.78
2121.3	89.9(87.2)	87.8	62.40	71.84	79.44	82.99	82.83	79.16	72.66	67.41	59.49	46.42	24.93
1958.1	89.9(86.8)	86.9	61.85	70.35	77.79	81.38	82.24	79.28	73.59	68.48	60.93	48.44	28.57
1831.2	89.3(86.0)	85.8	61.73	68.72	76.45	80.00	80.59	78.69	73.43	68.49	61.24	49.58	30.59
1732.1	88.8(85.2)	85.0	60.92	67.98	75.86	79.02	80.15	77.91	73.42	68.58	61.56	50.34	32.24
1655.1	88.1(84.5)	84.2	60.63	67.40	74.19	77.98	79.30	77.43	73.69	67.85	61.01	50.15	32.73
1596.3	87.4(83.7)	83.4	59.41	66.95	73.46	77.06	78.48	76.95	72.25	67.56	60.85	50.28	33.37
1552.9	86.5(82.6)	82.5	59.64	66.52	72.90	76.29	77.55	76.49	71.20	66.56	59.95	49.56	33.05
1523.1	86.0(82.2)	82.1	59.44	66.33	72.39	75.91	76.95	75.18	70.65	66.03	59.60	49.27	33.00
1505.7	85.4(81.5)	81.3	59.54	66.06	71.75	74.93	76.66	74.60	70.44	65.85	59.35	49.21	33.08
1500.0	84.3(80.4)	80.5	59.19	65.71	71.22	74.29	75.44	73.14	69.28	64.69	58.20	48.09	32.01
1504.7	83.2(79.4)	79.9	59.16	65.66	70.65	73.41	74.69	72.56	68.05	64.46	57.96	47.81	31.69
1523.1	82.2(78.1)	79.2	57.78	64.37	69.24	72.01	74.17	72.10	67.55	63.98	57.40	47.17	31.00
1552.9	82.1(78.1)	79.3	57.42	63.17	68.95	71.99	73.10	71.05	67.54	62.89	56.28	45.92	29.18
1596.3	81.1(77.1)	77.4	56.41	62.93	68.25	71.34	72.06	70.12	66.59	61.90	55.19	44.62	27.71
1655.1	80.1(76.1)	76.6	55.57	61.63	67.78	70.51	71.20	69.05	64.00	61.25	54.40	43.55	26.13

AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.150
PRIMARY TEMPERATURE (R)	= 729.000
SECONDARY TEMPERATURE (R)	= 543.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 1.000
VELOCITY RATIO	= .727
PRIMARY VELOCITY (FT/SEC)	= 1188.620
MASS FLOW RATIO	= 1.137
PRIMARY MASS FLOW (LB/SEC)	= .168
THRUST (LBS)	= 11.348
ENVIRONMENTAL TEMPERATURE (R)	= 530.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .025
INSTRUMENTATION NOISE FLOOR (DB)	= 57.607

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.28549E-01	128.0
500	4.55368E-03	106.6
1000	3.42769E-02	115.4
2000	1.67612E-01	122.2
4000	2.30016E-01	123.6
8000	1.29902E-01	121.1
16000	4.71591E-02	116.7
31500	1.50293E-02	111.8

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.4
20000	160.4
40000	163.5
80000	166.5

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	86.6	95.3	101.1	100.2	93.8	81.9	74.5	104.7
20.0	85.7	95.1	101.4	101.2	94.9	84.3	76.6	105.3
25.0	84.1	93.8	101.0	101.7	96.3	87.0	79.2	105.4
30.0	83.4	92.5	100.2	101.3	96.8	88.8	81.3	105.0
35.0	81.6	90.7	97.8	100.0	97.1	90.8	83.6	103.8
40.0	79.5	88.3	96.2	98.4	96.7	91.7	84.9	102.6
45.0	77.6	86.0	93.6	96.0	95.3	91.5	85.7	100.7
50.0	76.2	84.2	90.9	94.1	94.0	91.0	86.0	99.2
55.0	73.8	82.2	89.0	92.3	92.6	89.8	85.1	97.6
60.0	72.9	80.4	87.6	90.9	91.3	88.5	84.3	96.3
65.0	72.7	79.9	86.6	90.0	90.3	87.9	83.9	95.5
70.0	72.1	79.3	85.9	88.6	88.8	86.5	82.5	94.2
75.0	71.3	78.5	85.0	87.9	88.3	86.1	82.1	93.5
80.0	71.0	78.2	84.1	86.8	87.2	85.0	81.2	92.5
85.0	71.0	77.9	83.4	86.0	86.2	84.1	80.3	91.7
90.0	70.7	76.7	82.5	85.3	85.9	83.3	79.8	91.1
95.0	69.8	76.2	81.8	84.5	85.2	83.0	79.4	90.4
100.0	69.3	75.8	81.3	83.8	84.4	82.2	78.8	89.7
105.0	68.0	75.2	80.7	83.1	83.5	81.5	78.6	89.0
110.0	68.0	74.8	80.6	82.8	83.3	81.5	78.3	88.8
115.0	68.0	73.2	79.4	82.2	82.8	80.7	77.4	88.1

MODEL THRUST = 11.348 FULL SCALE THRUST = 20000.000

L*	PNOB, (PNOB)	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 11.9	23.8	47.6	95.3	190.6	381.1	750.3	1500.7	2977.5	5955.0	11910.0
5795.0	78.3(77.8)	82.3	64.39	73.00	78.78	77.77	70.93	57.73	47.00	36.08	16.20	-20.25	-82.84
4385.7	82.6(82.0)	89.3	65.90	75.25	81.50	81.18	76.59	63.00	52.84	43.85	28.08	-.24	-48.33
3549.3	85.7(84.8)	87.3	66.12	75.78	82.96	83.59	77.96	67.85	58.00	50.15	36.82	13.33	-26.17
3000.0	87.9(86.3)	86.3	66.87	76.02	83.62	84.69	79.94	71.30	62.10	55.00	43.26	22.95	-10.90
2615.2	88.8(87.3)	86.3	66.25	75.32	82.41	84.55	81.47	74.61	65.86	59.26	48.67	30.87	.68
2333.6	89.8(87.8)	86.1	65.19	73.94	81.84	83.95	82.13	76.59	68.46	62.27	52.47	36.00	9.01
2121.3	89.6(87.3)	87.0	64.08	72.48	80.07	82.39	81.50	77.24	70.28	64.38	55.20	39.96	15.14
1956.1	89.8(86.8)	86.2	63.36	71.36	78.08	81.22	81.01	77.48	71.40	65.73	57.02	42.72	19.59
1831.2	88.8(85.9)	85.2	61.62	69.94	76.71	80.04	80.12	76.94	71.23	65.72	57.39	43.82	21.99
1732.1	88.2(85.1)	84.3	61.16	68.62	75.79	79.07	79.39	76.16	70.94	65.57	57.53	44.53	23.72
1655.1	88.5(84.8)	83.9	61.30	68.55	75.26	78.62	78.80	75.97	71.06	65.80	57.98	45.42	25.41
1596.3	87.0(83.8)	83.0	61.09	68.26	74.82	77.56	77.62	74.88	70.03	64.85	57.20	44.98	25.57
1552.9	86.8(83.5)	82.6	60.47	67.71	74.15	77.03	77.35	74.76	69.88	64.76	57.24	45.28	26.31
1523.1	86.0(82.6)	81.7	60.34	67.60	73.47	76.15	76.39	73.88	69.16	64.08	56.65	44.85	26.19
1505.7	85.2(81.8)	81.0	60.44	67.41	72.80	75.36	75.54	73.07	68.44	63.38	55.99	44.30	25.82
1500.0	84.5(81.1)	80.4	60.15	66.18	72.00	74.75	75.23	72.30	67.93	62.87	55.51	43.85	25.43
1505.7	84.0(80.6)	79.8	59.10	65.62	71.26	73.95	74.54	71.94	67.50	62.44	55.06	43.37	24.88
1523.1	83.1(79.6)	78.9	58.63	65.15	70.61	73.09	73.56	71.03	66.77	61.69	54.25	42.46	23.80
1552.9	82.3(78.8)	78.1	57.25	64.39	69.86	72.26	72.51	70.22	66.36	61.24	53.72	41.75	22.79
1596.3	81.9(78.4)	77.6	57.01	63.74	69.58	71.67	72.08	69.97	65.86	60.68	53.03	40.82	21.41
1655.1	80.6(77.2)	76.6	56.69	61.80	68.01	70.80	71.28	68.82	64.56	59.29	51.48	38.98	18.90

RUN NUMBER	= 449.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= .100
PRIMARY TEMPERATURE (R)	= 923.000
SECONDARY TEMPERATURE (R)	= 537.000
PRIMARY PRESSURE RATIO	= 1.800
AREA RATIO	= 1.000
VELOCITY RATIO	= .876
PRIMARY VELOCITY (FT/SEC)	= 1184.775
MASS FLOW RATIO	= 1.638
PRIMARY MASS FLOW (LB/SEC)	= .168
THRUST (LBS)	= 15.037
ENVIRONMENTAL TEMPERATURE (R)	= 530.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .028
INSTRUMENTATION NOISE FLOOR (DB)	= 58.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	8.21011E-01	129.1
500	5.86667E-03	107.7
1000	4.48707E-02	116.5
2000	2.00769E-01	123.0
4000	2.83636E-01	124.5
8000	1.77045E-01	122.5
16000	7.77764E-02	118.9
31500	3.10469E-02	114.9

OVERALL SOUND POWER LEVEL+SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.4
20000	160.4
40000	163.4
80000	166.4

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	87.5	96.4	101.4	100.3	94.9	89.9	80.2	105.2
20.0	86.8	96.1	101.8	101.7	96.1	87.9	82.0	105.9
25.0	85.9	93.1	101.7	101.9	98.4	88.6	82.9	106.0
30.0	84.1	94.0	100.7	102.0	97.8	91.2	85.1	105.8
35.0	82.7	91.6	98.7	100.8	97.7	91.8	86.3	104.8
40.0	80.5	89.4	97.1	99.3	97.6	93.0	87.2	103.6
45.0	78.0	87.1	94.6	97.4	97.1	93.5	88.3	102.3
50.0	76.6	85.2	92.5	95.5	95.5	92.5	87.9	100.7
55.0	75.3	83.5	90.4	93.9	94.3	91.8	87.8	99.3
60.0	74.4	82.3	89.2	92.7	93.2	90.7	87.1	98.2
65.0	73.6	81.2	87.8	91.5	91.8	89.6	86.5	97.0
70.0	73.4	80.3	87.2	90.6	91.0	89.0	85.7	96.3
75.0	72.8	79.8	86.9	89.8	90.1	88.1	84.9	95.3
80.0	72.8	79.2	85.3	88.6	89.0	87.4	84.5	94.5
85.0	72.5	78.5	84.8	88.1	88.5	87.1	84.2	94.0
90.0	71.3	77.8	84.2	87.2	88.1	86.5	83.5	93.4
95.0	71.3	77.3	83.4	86.3	87.7	86.3	83.2	92.9
100.0	70.2	76.9	82.6	85.6	87.0	86.2	83.5	92.4
105.0	70.2	76.6	82.9	85.6	86.8	85.9	83.0	92.2
110.0	69.9	75.5	81.8	85.1	86.1	85.7	83.4	91.8
115.0	69.4	74.8	80.8	84.3	86.0	85.6	83.4	91.5

MODEL THRUST = 15.037 FULL SCALE THRUST = 20000.000

L	PNDB	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 13.7	27.4	54.8	109.7	219.4	438.7	863.7	1727.5	3427.8	6855.0	13710.0
5798.6	78.7(78.1)	81.5	64.04	72.95	77.87	76.62	70.87	60.03	50.34	38.00	15.49	-25.03	-94.41
4385.7	83.2(82.5)	84.7	65.71	75.06	80.71	80.42	76.41	65.07	56.13	46.06	28.30	-3.40	-66.48
3549.3	85.8(84.8)	86.6	66.72	75.84	82.50	82.96	78.66	67.92	59.82	51.10	36.15	9.92	-33.60
3000.0	88.1(86.8)	87.9	66.32	76.20	82.94	84.19	79.88	72.16	64.08	56.25	43.15	20.52	-14.74
2615.2	89.1(87.5)	87.9	66.10	76.01	82.12	84.15	80.79	74.12	66.87	59.66	47.65	27.74	-5.12
2333.6	90.1(88.2)	87.9	64.94	73.78	81.50	83.59	81.68	76.47	69.11	62.35	51.50	33.23	3.58
2121.3	90.7(88.4)	87.3	63.23	72.40	79.79	82.56	82.05	77.88	71.27	64.85	54.71	37.83	10.61
1958.1	90.2(87.9)	86.3	62.69	71.19	78.49	81.41	81.76	77.63	71.76	65.98	55.99	40.18	14.82
1831.2	89.9(87.1)	85.6	61.80	70.04	76.87	80.35	80.54	77.54	72.29	66.14	57.18	42.20	18.29
1732.1	89.5(86.5)	85.0	61.40	69.32	76.17	79.65	80.02	77.02	72.18	66.39	57.56	43.23	20.45
1655.1	88.9(85.7)	84.2	61.06	68.65	75.19	78.89	78.96	76.32	72.10	66.43	57.86	44.03	22.13
1596.3	88.5(85.3)	83.8	61.11	68.01	74.96	78.28	78.53	76.08	71.66	66.09	57.71	44.27	23.04
1552.9	87.9(84.6)	83.1	60.81	67.73	73.90	77.67	77.82	75.41	71.16	65.66	57.43	44.27	23.54
1523.1	87.4(84.0)	82.6	60.98	67.35	73.38	76.98	76.96	74.95	71.00	65.55	57.42	44.45	24.06
1505.7	87.2(83.7)	82.0	60.79	66.71	72.99	76.26	76.56	74.76	70.74	65.32	57.25	44.40	24.20
1500.0	86.5(83.1)	81.4	59.58	66.10	72.41	75.44	76.11	74.16	70.12	64.70	56.65	43.84	23.71
1505.7	86.1(82.6)	80.9	59.55	65.55	71.62	74.46	75.77	73.88	69.80	64.37	56.31	43.45	23.26
1523.1	85.8(82.2)	80.3	58.38	65.09	70.69	73.67	74.94	73.68	69.96	64.51	56.38	43.41	23.02
1552.9	85.5(81.8)	79.9	58.21	64.64	70.41	73.35	74.27	73.24	70.03	64.53	56.30	43.14	22.41
1596.3	84.8(81.2)	79.2	57.59	63.26	69.49	72.81	73.98	72.81	69.56	63.79	55.39	41.96	20.72
1655.1	84.2(80.6)	78.5	56.87	61.80	68.17	71.69	73.18	72.29	68.96	63.29	54.72	40.89	18.99

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 650.000
PRIMARY TEMPERATURE (R)	= .4100
SECONDARY TEMPERATURE (R)	= 927.000
PRIMARY PRESSURE RATIO	= 543.000
AREA RATIO	= 1.600
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= .379
MASS FLOW RATIO	= 1187.340
PRIMARY MASS FLOW (LB/SEC)	= .994
THRUST (LBS)	= .168
ENVIRONMENTAL TEMPERATURE (R)	= 4.549
ENVIRONMENTAL PRESSURE (IN.HG)	= 533.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.700
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 70.000
INSTRUMENTATION NOISE FLOOR (DB)	= .020
	= 55.600

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.041366-01	127.0
500	2.194698E-03	103.4
1000	1.688084E-02	112.3
2000	9.498086E-02	119.8
4000	1.746795E-01	122.4
8000	1.273206E-01	121.0
16000	6.412286E-02	118.1
31500	2.403556E-02	113.8

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.7
20000	160.7
40000	163.7
80000	166.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	83.2	92.0	98.2	98.3	91.7	86.5	74.3	102.3
20.0	81.7	91.5	98.7	99.6	94.0	83.7	76.3	103.2
25.0	81.2	90.6	98.2	100.1	95.3	87.0	79.6	103.5
30.0	80.1	89.2	97.6	100.2	96.5	89.9	83.2	103.6
35.0	78.5	87.7	96.0	99.4	97.1	91.8	85.4	103.1
40.0	76.5	85.6	93.8	97.6	96.9	92.8	87.1	102.0
45.0	74.8	83.4	91.5	95.2	95.6	92.6	87.6	100.4
50.0	72.9	81.7	89.2	93.1	94.4	92.8	88.4	98.2
55.0	71.6	79.6	87.3	91.1	92.9	91.8	87.5	97.8
60.0	70.4	78.3	85.2	89.5	91.4	90.2	86.7	96.8
65.0	69.3	77.3	84.0	88.2	90.2	89.2	85.7	95.1
70.0	69.6	76.8	83.0	87.1	89.1	88.1	84.9	94.1
75.0	69.0	75.9	82.3	86.3	88.1	87.2	83.8	93.1
80.0	69.0	75.6	81.7	85.7	87.5	86.8	83.3	92.6
85.0	68.0	75.0	81.0	84.8	86.9	85.9	82.9	91.9
90.0	67.3	74.1	80.4	83.9	85.7	84.8	81.7	90.8
95.0	67.3	73.6	79.5	83.3	84.9	84.1	81.2	90.1
100.0	66.9	73.4	79.0	83.0	84.5	83.6	80.8	89.7
105.0	66.0	73.0	78.6	81.9	83.9	82.8	80.1	89.0
110.0	65.1	71.9	78.2	81.5	83.0	82.1	79.3	88.3
115.0	65.6	71.2	77.6	81.2	82.8	81.7	79.3	88.0

MODEL THRUST = 8.568 FULL SCALE THRUST = 20000.000

Le	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 16.3	32.7	61.3	82.7	165.5	330.8	651.2	1302.4	2586.8	5188.6	10376.8
4385.7	80.8(80.8)	86.5	63.09	72.93	80.07	80.88	74.97	63.90	54.50	46.44	32.45	7.93	-34.18
3849.3	84.4(83.2)	86.6	64.41	73.87	81.43	83.28	78.26	69.33	60.25	53.14	41.26	20.28	-15.42
3206.8	87.4(85.8)	88.1	64.82	73.88	82.29	84.78	80.93	73.84	65.69	59.23	48.78	30.51	-.13
2818.2	89.5(87.5)	88.9	64.41	73.61	81.92	85.23	82.81	77.03	69.39	63.37	53.82	37.77	10.47
2333.6	90.6(88.2)	88.2	63.43	72.47	80.66	84.45	83.54	79.02	72.22	66.53	57.68	42.86	18.34
2121.3	90.8(88.8)	87.9	62.95	71.10	79.19	82.84	83.12	79.76	73.77	68.33	60.01	46.26	23.72
1988.1	91.4(88.3)	87.4	61.30	70.15	77.63	81.45	82.64	80.44	74.35	70.09	62.18	48.26	27.22
1831.2	91.0(87.7)	86.6	60.61	68.60	76.26	80.07	81.74	80.34	75.14	70.03	62.44	50.14	30.20
1732.1	90.2(86.6)	85.8	59.87	67.73	74.64	78.92	80.68	79.23	74.93	69.93	62.59	50.81	31.84
1655.1	89.5(85.9)	84.9	59.14	67.17	73.86	78.65	79.88	78.64	74.31	69.60	62.25	50.86	32.41
1596.3	89.0(85.2)	84.1	59.75	66.97	73.16	77.27	79.15	77.98	73.98	69.11	62.11	51.02	33.31
1552.4	88.2(84.5)	83.5	59.39	66.35	72.77	76.78	78.62	77.16	73.07	68.26	61.39	50.52	33.21
1523.1	87.8(84.0)	83.1	58.56	66.23	72.24	76.24	78.01	76.95	72.78	68.02	61.20	50.49	33.65
1508.7	87.2(83.3)	82.5	58.68	65.70	71.47	75.63	77.44	76.17	72.44	67.74	60.97	50.34	33.67
1500.0	86.2(82.3)	81.5	57.99	64.87	71.13	74.63	76.31	75.14	71.28	66.55	59.80	49.19	32.37
1505.7	85.4(81.5)	80.7	57.85	64.28	70.16	73.98	75.51	74.37	70.78	66.01	59.24	48.61	31.76
1523.1	84.4(80.8)	80.2	57.57	63.98	69.41	73.52	74.96	73.63	70.25	65.48	58.67	47.95	30.92
1552.4	83.8(79.9)	79.3	57.30	63.41	68.94	72.91	74.18	72.76	69.35	64.57	57.68	46.81	29.50
1594.1	82.4(78.9)	78.4	55.32	62.67	68.15	71.97	73.05	71.86	64.33	63.64	55.64	45.68	27.70
1655.1	82.1(78.2)	77.8	55.67	61.42	67.41	71.02	72.68	71.13	67.98	63.07	55.02	44.83	26.28

RUN NUMBER	= 451.000
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 923.000
SECONDARY TEMPERATURE (R)	= 537.000
PRIMARY PRESSURE RATIO	= 1.400
AREA RATIO	= 2.007
VELOCITY RATIO	= .729
PRIMARY VELOCITY (FT/SEC)	= 1164.775
MASS FLOW RATIO	= 2.417
PRIMARY MASS FLOW (LB/SEC)	= .170
THRUST (LBS)	= 17.218
ENVIRONMENTAL TEMPERATURE (R)	= 531.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .022
INSTRUMENTATION NOISE FLOOR (DB)	= 56.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	9.24003E-01	129.7
500	6.82586E-03	108.3
1000	4.68215E-02	116.7
2000	1.98636E-01	123.0
4000	3.11082E-01	124.9
8000	2.19735E-01	123.4
16000	1.04510E-01	120.2
31500	3.69932E-02	115.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.3
20000	160.3
40000	163.3
80000	166.3

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	87.6	95.0	98.7	96.8	90.6	82.0	76.1	102.4
20.0	86.8	95.1	100.0	98.0	91.7	83.1	77.8	103.4
25.0	86.0	94.7	100.1	99.9	94.1	85.5	79.8	104.2
30.0	85.0	93.4	100.0	101.0	95.9	87.4	81.6	104.7
35.0	82.9	91.6	99.0	101.3	98.2	91.0	84.0	104.9
40.0	80.7	90.4	97.6	100.2	98.8	93.4	86.6	104.4
45.0	79.4	88.7	95.7	98.7	98.3	94.3	87.9	103.4
50.0	77.8	87.0	94.5	97.0	97.4	94.2	89.0	102.4
55.0	76.7	85.6	92.9	95.4	96.0	93.7	88.6	101.1
60.0	76.3	84.7	91.3	94.1	94.9	93.1	89.0	100.1
65.0	76.3	83.9	90.6	93.1	94.0	92.4	88.3	99.2
70.0	75.2	83.1	90.0	92.2	93.1	91.5	87.9	98.4
75.0	75.3	82.6	89.2	91.2	91.9	90.4	86.9	97.4
80.0	74.3	82.3	88.2	90.7	91.5	90.2	86.7	96.9
85.0	73.5	81.2	87.6	90.1	90.6	88.8	85.4	96.0
90.0	73.9	80.5	86.9	89.5	90.2	88.6	85.2	95.6
95.0	72.8	79.8	86.5	89.0	89.7	88.0	84.2	95.0
100.0	72.1	79.1	85.9	88.2	88.9	87.4	84.2	94.4
105.0	70.8	78.5	85.0	88.0	88.4	86.7	83.5	93.8
110.0	70.5	77.2	84.0	86.7	88.2	86.4	83.0	96.0
115.0	70.3	76.2	82.8	86.9	88.0	85.9	82.7	92.9

MODEL THRUST = 17.218 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE BAND SOUND PRESSURE LEVELS 14.7	29.3	58.7	117.4	234.7	469.5	924.2	1848.5	3667.6	7335.2	14670.4
8799.8	74.2(73.7)	78.1	63.58	70.97	76.59	72.42	65.83	55.23	45.10	32.01	8.11	-35.11	-107.60	
4385.7	78.8(78.1)	81.6	65.17	73.45	78.29	76.11	69.37	59.43	50.85	40.21	21.40	-12.04	-67.63	
3549.3	83.1(82.3)	84.1	66.17	74.88	80.29	79.96	73.70	64.08	55.76	46.57	30.78	3.15	-42.41	
3000.0	86.0(84.9)	86.2	66.64	75.03	81.60	82.50	77.04	67.69	59.68	51.46	37.64	13.82	-25.15	
2615.2	88.5(87.2)	87.6	65.80	74.49	81.78	83.98	80.63	72.66	63.70	56.15	43.72	22.57	-11.79	
2333.6	90.4(88.7)	88.0	64.59	74.20	81.44	83.96	82.29	76.14	67.61	60.54	49.13	29.93	-1.05	
2121.3	91.1(89.1)	87.8	64.06	73.41	80.31	83.28	82.61	78.02	70.04	63.34	52.70	34.98	6.54	
1958.1	91.4(89.1)	87.4	63.15	72.36	79.83	82.28	82.49	78.68	71.98	65.57	55.51	38.93	12.45	
1831.2	91.0(88.5)	86.7	62.67	71.59	78.81	81.29	81.71	78.80	72.36	66.11	56.51	40.80	15.85	
1732.1	90.9(88.0)	86.2	62.71	71.11	77.71	80.44	81.08	78.77	73.32	67.30	58.06	43.04	19.27	
1655.1	90.6(87.1)	85.0	63.11	70.68	77.41	79.88	80.56	78.47	73.14	67.26	58.29	43.81	20.96	
1596.3	90.3(87.2)	85.3	62.30	70.23	77.09	79.23	79.98	77.95	73.14	67.36	58.61	44.53	22.39	
1552.9	89.5(86.6)	84.5	62.71	69.95	76.52	78.67	79.09	77.12	72.39	66.68	58.08	44.31	22.69	
1523.1	89.4(86.2)	84.2	61.82	69.80	75.71	78.21	78.78	77.01	72.44	66.79	58.30	44.73	23.46	
1505.7	88.3(85.1)	83.4	61.12	69.60	75.24	77.65	78.03	75.73	71.26	65.64	57.21	43.76	22.71	
1500.0	86.0(84.8)	83.0	61.56	68.18	74.52	77.08	77.69	75.61	71.03	65.42	57.01	43.60	22.62	
1505.7	87.3(84.1)	82.4	60.48	67.43	74.11	76.55	77.11	74.94	70.04	64.41	55.99	42.54	21.48	
1523.1	86.7(83.4)	81.7	59.69	66.67	73.19	75.72	76.25	74.26	69.92	64.26	55.77	42.20	20.94	
1552.9	85.9(82.5)	80.9	59.22	65.91	72.35	75.29	75.58	73.41	69.07	63.27	54.67	40.89	19.27	
1596.3	87.7(85.1)	80.0	57.70	64.35	71.14	83.80	74.10	72.76	68.23	62.45	53.70	39.62	17.48	
1655.1	84.2(81.1)	79.4	57.09	62.98	69.66	73.62	74.58	72.01	67.49	61.81	52.64	38.16	15.31	

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 452.000
PRIMARY TEMPERATURE (R)	= 4.100
SECONDARY TEMPERATURE (R)	= 928.000
PRIMARY PRESSURE RATIO	= 531.000
AREA RATIO	= 1.000
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= .869
MASS FLOW RATIO	= 1187.980
PRIMARY PASS FLOW (LB/SEC)	= 3.144
THRUST (LBS)	= .168
ENVIRONMENTAL TEMPERATURE (R)	= 23.173
ENVIRONMENTAL PRESSURE (IN.HG)	= 529.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.700
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 70.000
INSTRUMENTATION NOISE FLOOR (DB)	= .032
	= 59.573

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.709008E+00	132.3
500	1.293768E-02	111.1
1000	8.446818E-02	119.3
2000	3.507358E-01	125.4
4000	5.418118E-01	127.3
8000	4.280988E-01	126.3
16000	2.101738E-01	123.2
31500	8.077588E-02	119.1

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	158.7
20000	161.7
40000	164.7
80000	167.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	90.3	97.6	99.9	97.8	93.8	86.5	80.5	104.1
20.0	89.5	97.6	101.1	99.5	95.4	87.4	81.7	105.1
25.0	88.8	96.9	101.9	100.9	96.4	88.9	83.1	105.9
30.0	88.0	96.1	101.8	102.1	97.7	90.7	85.4	106.4
35.0	85.5	94.1	101.2	103.3	100.0	92.8	87.1	107.0
40.0	83.5	92.7	100.0	102.4	100.4	94.4	89.3	106.4
45.0	82.1	91.3	98.9	101.9	100.9	96.0	89.6	106.2
50.0	80.4	89.5	97.2	100.2	100.0	96.8	91.4	105.2
55.0	79.6	88.4	96.0	98.9	99.2	96.7	92.1	104.3
60.0	78.8	87.0	95.0	97.7	98.1	96.0	91.5	103.3
65.0	78.5	86.8	94.4	97.0	97.3	95.5	91.8	102.7
70.0	78.1	85.5	93.2	96.1	96.2	94.4	90.8	101.7
75.0	78.1	85.6	92.5	95.4	95.6	93.8	90.4	101.1
80.0	77.2	84.7	92.0	95.1	95.2	93.5	89.9	100.7
85.0	76.7	84.4	91.2	94.2	94.7	93.0	89.5	100.0
90.0	76.5	83.7	90.5	93.7	94.2	92.4	88.9	99.5
95.0	76.0	82.9	89.8	93.0	93.6	92.1	88.8	99.0
100.0	74.9	82.2	89.2	92.3	93.0	91.8	88.3	98.4
105.0	73.8	81.3	88.3	91.8	92.6	91.3	88.0	97.9
110.0	73.6	80.2	87.2	91.4	92.2	90.7	87.9	97.4
115.0	73.2	79.5	86.5	91.0	92.3	90.7	87.9	97.2

MODEL THRUST = 23.173 FULL SCALE THRUST = 20000.000

L0	PNDB0	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 17.0	34.0	68.1	136.2	272.3	544.6	1072.2	2144.5	4254.9	8509.8	17019.5
8795.6	75.7(75.2)	78.5	64.97	72.21	74.69	72.11	67.34	57.88	46.67	31.74	4.54	-44.87	-124.15
4385.7	80.4(79.8)	81.9	66.60	74.67	78.07	76.27	71.56	61.98	52.38	40.35	19.04	-18.47	-79.91
3549.3	84.1(83.3)	84.6	67.67	75.78	80.76	79.61	74.59	65.74	56.84	46.53	28.71	-2.22	-52.43
3000.0	87.0(86.0)	86.5	68.34	76.48	82.17	82.29	77.50	69.34	61.36	52.19	36.66	10.65	-32.85
2615.2	89.8(88.6)	88.3	67.07	75.65	82.74	84.70	81.07	72.91	64.81	56.42	42.51	18.92	-18.46
2333.4	91.1(89.7)	88.7	66.11	75.27	82.48	84.82	82.45	75.63	67.45	59.64	46.90	25.54	-8.50
2121.3	92.5(90.9)	89.3	65.44	74.68	82.25	85.12	83.89	78.17	69.83	62.46	50.60	30.91	-.31
1958.1	93.0(91.0)	88.9	64.47	73.58	81.29	84.14	83.70	79.75	72.62	65.59	54.41	36.01	6.96
1831.2	93.2(90.9)	88.6	64.22	73.07	80.63	83.47	83.45	80.27	74.05	67.28	56.63	39.22	11.46
1732.1	93.0(90.5)	88.1	63.95	72.18	80.15	82.70	82.94	80.12	74.44	67.88	57.65	41.02	14.98
1655.1	92.9(90.2)	87.9	64.02	72.35	79.92	82.47	82.50	80.12	74.95	68.54	58.63	42.61	17.59
1596.3	92.2(89.5)	87.1	64.00	71.33	79.03	81.95	81.71	79.32	74.28	68.00	58.33	42.77	18.54
1552.9	92.1(89.2)	86.8	64.24	71.65	78.57	81.41	81.35	79.01	74.25	68.05	58.57	43.35	19.49
1523.1	91.9(89.0)	86.6	63.51	70.92	78.26	81.24	81.20	78.91	73.96	67.82	58.46	43.48	20.22
1505.7	91.4(88.5)	86.0	63.03	70.76	77.54	80.45	80.72	78.52	73.63	67.53	58.24	43.39	20.37
1500.0	90.9(88.0)	85.5	62.86	70.07	76.42	79.99	80.26	77.97	73.11	67.02	57.76	42.96	20.00
1505.7	90.4(87.4)	84.9	62.40	69.23	76.18	79.24	79.66	77.65	72.90	66.80	57.52	42.67	19.64
1523.1	89.7(86.7)	84.2	61.14	68.68	75.42	78.43	78.96	77.20	72.35	66.21	56.85	41.86	18.60
1552.9	89.0(86.0)	83.6	59.92	67.36	74.36	77.76	78.39	76.50	71.86	65.67	56.18	40.96	17.31
1596.3	86.2(85.3)	82.8	59.68	66.05	73.05	77.15	77.77	75.63	71.34	65.09	55.42	39.86	15.63
1655.1	87.8(84.8)	82.3	58.78	64.99	71.99	76.41	77.52	75.28	70.98	64.57	54.66	38.63	13.42

RUN NUMBER	= 453.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 927.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 4.856
VELOCITY RATIO	= .374
PRIMARY VELOCITY (FT/SEC)	= 1187.340
MASS FLOW RATIO	= 2.635
PRIMARY MASS FLOW (LB/SEC)	= .170
THRUST (LBS)	= 12.460
ENVIRONMENTAL TEMPERATURE (R)	= 530.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .020
INSTRUMENTATION NOISE FLOOR (DB)	= 55.600

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.00426E-01	127.0
500	3.63170E-03	105.6
1000	2.42206E-02	113.8
2000	1.10769E-01	120.4
4000	1.76001E-01	122.5
8000	1.16357E-01	120.7
16000	5.11856E-02	117.1
31500	1.82612E-02	112.6

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	156.0
20000	159.0
40000	162.1
80000	165.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	85.4	93.4	98.7	97.7	89.8	77.0	72.1	102.3
20.0	84.5	92.7	99.1	98.8	91.3	78.7	73.5	102.8
25.0	83.3	91.9	98.9	99.9	93.4	82.2	76.1	103.4
30.0	81.8	91.0	97.9	99.9	95.1	86.2	79.5	103.3
35.0	80.9	89.3	96.7	99.2	96.2	89.4	82.5	102.8
40.0	78.3	87.7	94.8	97.8	96.1	90.8	84.3	101.8
45.0	76.7	85.4	92.6	95.8	95.6	91.9	86.1	100.6
50.0	75.1	83.1	90.4	93.6	94.3	91.3	86.3	99.1
55.0	74.2	81.7	88.0	91.8	93.0	90.6	86.0	97.7
60.0	72.7	80.8	87.0	90.2	91.7	89.7	85.6	96.5
65.0	72.5	79.2	86.0	89.1	90.5	88.7	84.8	95.0
70.0	71.6	78.1	84.4	87.9	89.6	88.0	84.4	94.5
75.0	70.9	77.8	83.9	87.5	88.7	87.4	83.8	93.8
80.0	70.4	77.0	82.8	86.4	88.1	86.8	83.2	93.1
85.0	70.4	76.8	82.3	85.4	87.1	85.5	81.8	92.0
90.0	69.3	75.8	81.5	84.8	86.4	85.0	81.4	91.4
95.0	69.3	75.2	80.8	84.0	85.6	84.5	81.2	90.7
100.0	68.0	74.7	79.9	83.3	84.8	83.4	80.4	89.9
105.0	68.0	74.1	79.4	82.6	84.0	82.8	79.6	89.2
110.0	67.3	73.4	79.3	82.2	83.4	82.0	79.3	88.7
115.0	67.3	72.6	78.5	81.7	82.9	81.4	79.2	88.2

MODEL THRUST = 12.460 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 12.5	25.0	49.9	99.8	199.7	399.4	798.2	1572.5	3170.0	6240.0	12480.0
9795.6	74.9(74.4)	79.5	62.76	70.75	75.98	74.79	66.48	52.25	43.80	32.51	11.79	-26.10	-90.83
4385.7	79.4(78.7)	82.5	64.30	72.50	78.78	78.41	70.51	56.91	49.00	39.67	23.26	-6.14	-55.86
3569.3	83.1(82.2)	84.9	64.92	73.53	80.47	81.40	74.56	62.52	54.30	46.17	32.32	7.96	-32.85
3000.0	85.4(84.4)	86.2	64.89	74.03	80.98	82.99	77.83	68.23	59.66	52.33	40.16	19.09	-15.86
2615.2	87.7(86.1)	86.9	65.19	73.57	80.97	83.35	80.18	72.70	64.21	57.44	46.44	27.70	-3.16
2333.6	88.8(87.0)	86.9	63.55	72.93	80.82	82.93	81.09	75.25	67.26	60.89	50.75	33.70	5.85
2121.3	89.8(87.3)	86.5	62.75	71.46	78.66	81.83	81.40	77.21	70.14	64.07	54.59	38.82	13.22
1958.1	89.5(86.8)	85.6	61.92	69.90	77.13	80.33	80.88	77.39	71.21	65.38	56.39	41.65	17.75
1831.2	89.1(86.2)	84.8	61.53	69.01	75.39	79.07	80.16	77.32	71.62	65.98	57.38	43.36	20.85
1732.1	88.8(85.6)	84.1	60.53	68.62	74.78	78.02	79.34	76.88	71.75	66.25	57.96	44.53	23.08
1655.1	88.1(84.8)	83.0	60.72	67.45	68.23	77.26	78.55	76.37	71.42	66.03	57.97	45.00	24.37
1596.3	87.9(84.5)	82.8	60.17	66.69	72.42	76.44	77.9;	76.00	71.45	66.14	58.26	45.65	25.65
1552.9	87.6(84.1)	82.4	59.69	66.48	72.71	76.24	77.31	75.66	71.69	65.65	58.10	45.75	26.21
1523.1	87.1(83.6)	81.8	59.35	66.00	71.75	75.27	76.90	75.23	70.70	65.50	57.84	45.67	26.45
1505.7	86.0(82.5)	80.9	59.45	65.44	71.39	74.43	76.00	74.01	69.39	64.22	56.62	44.55	25.51
1500.0	85.5(81.9)	80.3	58.36	64.88	70.60	73.86	75.33	73.51	69.07	63.90	56.32	44.28	25.31
1505.7	84.9(81.3)	79.6	58.33	64.23	69.86	73.01	74.68	72.97	68.78	63.60	56.00	43.93	24.90
1523.1	83.9(80.2)	78.6	56.94	63.63	68.85	72.20	73.53	71.85	67.86	62.66	55.00	42.83	23.61
1552.9	82.9(79.3)	77.8	56.77	62.93	68.16	71.36	72.63	70.68	66.93	61.69	53.96	41.59	22.05
1596.3	82.0(78.4)	77.0	55.81	61.94	67.74	70.65	71.74	69.98	66.34	61.03	53.15	40.54	20.54
1655.1	81.3(77.6)	76.2	55.69	60.80	66.77	69.87	70.96	69.25	65.81	60.42	52.36	39.39	18.77

RUN NUMBER	
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 454.00 (759.00)
PRIMARY TEMPERATURE (R)	= 4.100
SECONDARY TEMPERATURE (R)	= 926.000
PRIMARY PRESSURE RATIO	= 543.000
AREA RATIO	= 1.000
VELOCITY RATIO	= 4.856
PRIMARY VELOCITY (FT/SEC)	= .728
MASS FLOW RATIO	= 1186.699
PRIMARY MASS FLOW (LB/SEC)	= 5.811
THRUST (LBS)	= .168
ENVIRONMENTAL TEMPERATURE (R)	= 32.450
ENVIRONMENTAL PRESSURE (IN.HG)	= 526.500
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.900
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 70.000
INSTRUMENTATION NOISE FLOOR (DB)	= .025
	= 57.607

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.21416E+00	130.8
500	1.90982E-02	112.8
1000	1.01732E-01	120.1
2000	3.30077E-01	125.2
4000	3.94656E-01	126.0
8000	2.32071E-01	123.7
16000	9.93438E-02	120.0
31500	3.71833E-02	115.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST.

THRUST	POWER LEVEL(DB)
10000	155.7
20000	158.7
40000	161.8
80000	164.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	92.0	97.8	99.5	95.7	88.9	81.7	76.6	103.3
20.0	91.1	98.0	100.7	96.9	89.6	82.9	78.1	104.1
25.0	90.2	97.7	101.7	98.5	91.6	84.6	80.0	104.9
30.0	89.0	96.5	101.4	99.7	92.9	86.6	81.9	104.9
35.0	87.2	95.5	101.0	100.3	94.8	88.5	83.6	105.0
40.0	85.1	93.5	99.5	100.8	96.9	90.3	84.9	104.8
45.0	84.0	92.2	98.4	100.5	97.8	92.3	86.5	104.5
50.0	82.0	90.3	96.9	98.8	96.8	92.3	87.3	103.2
55.0	82.4	89.7	95.9	98.3	96.9	92.5	87.2	102.8
60.0	80.7	88.1	94.7	97.2	96.1	92.7	88.2	101.9
65.0	80.5	87.7	93.7	96.1	95.3	92.3	88.1	101.1
70.0	80.2	86.8	93.2	95.4	94.6	91.7	87.7	100.5
75.0	79.3	86.3	92.6	95.0	93.8	91.1	87.0	99.9
80.0	79.4	85.7	91.6	94.3	93.4	91.0	87.0	99.3
85.0	78.7	85.1	90.9	93.4	92.7	90.4	86.5	98.6
90.0	78.2	84.7	90.0	92.8	92.3	89.8	86.3	98.0
95.0	77.6	84.1	89.7	92.2	91.7	89.4	85.8	97.5
100.0	76.8	83.0	89.0	91.5	91.2	88.8	85.3	96.9
105.0	76.2	82.4	88.4	91.5	90.6	88.5	84.9	96.5
110.0	76.0	81.6	87.9	91.0	90.5	88.3	84.9	96.2
115.0	75.3	80.5	86.8	90.5	89.9	87.7	84.1	95.5

MODEL THRUST = 32.450 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 20.1	40.3	80.6	161.1	322.2	644.5	1288.8	2537.7	5035.1	10070.1	20140.3
4385.7	76.6	76.1	79.5	66.74	73.63	76.21	72.16	64.03	55.28	45.70	31.84	7.33	-35.25	-103.68
3549.3	80.5	79.9	82.1	67.61	75.09	79.10	75.64	68.08	59.44	50.92	39.13	18.72	-16.31	-72.10
3000.0	83.3	82.5	83.6	67.94	75.37	80.26	78.39	71.07	63.33	55.36	44.93	27.22	-2.85	-50.47
2615.2	85.5	84.5	84.9	67.29	75.57	81.04	80.23	74.23	66.69	58.87	49.39	33.57	8.97	-34.93
2333.4	87.2	86.1	85.6	66.17	74.54	80.55	81.73	77.40	69.67	61.73	52.95	38.51	14.45	-23.26
2121.3	88.1	87.3	86.1	65.89	74.10	80.32	82.28	79.20	72.64	64.57	56.31	42.91	20.77	-13.70
1950.1	88.7	87.1	85.5	64.65	72.92	79.50	81.27	78.91	73.53	66.31	58.46	45.86	25.19	-6.94
1831.7	89.3	87.6	85.6	65.57	72.88	79.09	81.31	79.58	74.35	67.04	59.51	47.53	28.00	-2.23
1732.1	89.4	87.5	85.2	64.40	71.78	78.30	80.73	79.30	75.09	68.70	61.41	49.91	31.28	2.52
1655.1	89.3	87.2	84.8	64.59	71.80	77.78	80.07	78.92	75.13	69.16	62.06	50.94	33.01	5.39
1596.3	89.0	86.9	84.5	64.59	71.16	77.54	79.69	78.58	74.95	69.21	62.26	51.43	34.03	7.28
1552.9	88.6	86.6	84.1	63.93	70.96	77.16	79.48	78.06	74.59	68.82	61.98	51.36	34.35	8.25
1523.1	88.4	86.2	83.7	64.21	70.69	76.18	78.97	77.43	74.70	68.96	62.19	51.72	34.98	9.32
1505.7	87.9	85.6	83.1	63.58	69.96	75.78	78.17	77.23	74.17	68.67	61.94	51.56	34.97	9.57
1500.6	87.5	85.1	82.5	63.09	69.67	74.87	77.61	76.84	73.63	68.45	61.74	51.39	34.86	9.53
1505.7	86.9	84.6	82.0	62.49	69.00	74.54	77.02	76.25	73.18	67.95	61.22	50.83	34.25	8.95
1523.1	86.2	83.8	81.3	61.64	67.74	73.78	76.17	74.99	72.42	67.33	60.56	50.09	33.34	7.69
1552.9	85.3	83.2	80.7	60.81	67.07	73.23	75.99	74.87	71.99	66.70	59.85	49.24	32.22	6.13
1596.3	85.0	82.6	80.1	60.40	66.90	72.79	75.21	74.45	71.56	66.34	59.43	48.60	31.19	4.45
1699.1	83.9	81.6	79.1	59.36	66.55	70.85	74.43	73.52	70.57	65.19	58.09	46.98	29.84	1.42

RUN NUMBER	
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 455.000
PRIMARY TEMPERATURE (R)	= 4.100
SECONDARY TEMPERATURE (R)	= 925.000
PRIMARY PRESSURE RATIO	= 545.000
AREA RATIO	= 1.600
VELOCITY RATIO	= 4.456
PRIMARY VELOCITY (FT/SEC)	= .882
MASS FLOW RATIO	= 1186.058
PRIMARY MASS FLOW (LB/SEC)	= 7.633
THRUST (LHS)	= .164
ENVIRONMENTAL TEMPERATURE (R)	= 47.926
ENVIRONMENTAL PRESSURE (IN.HG)	= 526.500
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.900
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 70.000
INSTRUMENTATION NOISE FLOOR (DB)	= .036
	= 80.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.909508E+00	134.6
500	4.559688E-02	116.6
1000	2.43027E-01	123.9
2000	6.51765E-01	128.1
4000	8.50865E-01	129.3
8000	6.06898E-01	127.8
16000	3.35327E-01	125.3
31500	1.76017E-01	122.5

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.8
20000	160.8
40000	163.9
80000	166.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	84.4	102.5	102.6	100.3	94.6	89.3	85.4	107.1
20.0	96.3	102.5	103.8	101.2	96.1	91.3	87.3	108.2
25.0	94.2	101.4	104.0	101.8	97.0	92.0	88.5	108.0
30.0	93.8	100.5	104.0	103.1	99.4	93.9	90.6	108.4
35.0	91.6	98.6	103.4	103.4	99.3	95.0	91.0	108.2
40.0	89.4	96.9	102.1	103.1	100.0	96.4	92.2	107.7
45.0	87.6	95.2	101.3	102.6	100.6	97.0	93.1	107.3
50.0	85.7	93.5	99.9	101.8	100.7	97.6	93.6	106.7
55.0	85.7	92.5	98.8	101.2	100.2	97.3	93.4	106.1
60.0	84.7	92.0	97.9	100.5	99.8	97.1	93.6	105.6
65.0	84.2	91.0	97.1	99.7	99.0	96.4	93.4	104.8
70.0	83.6	90.3	96.8	99.3	98.7	96.1	93.0	104.5
75.0	83.7	89.9	95.9	98.6	98.3	95.9	93.0	104.0
80.0	83.0	89.4	95.3	97.8	97.5	95.3	92.2	103.3
85.0	82.5	89.1	94.8	97.7	97.3	95.3	92.6	103.1
90.0	82.5	88.7	94.2	97.4	97.4	95.6	93.3	103.1
95.0	81.9	88.0	93.7	96.7	96.8	95.4	93.4	102.6
100.0	80.9	87.2	93.2	96.1	96.6	95.2	93.9	102.3
105.0	80.4	86.6	92.6	95.7	96.1	94.8	93.2	101.8
110.0	79.3	85.8	92.3	95.9	95.8	94.8	93.3	101.8
115.0	79.5	84.5	91.3	95.2	95.7	94.5	93.5	101.4

MODEL THRUST = 47.926 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE BAND SOUND PRESSURE LEVELS 24.5	49.0	97.9	195.8	391.6	783.2	1542.0	3084.0	6119.0	12238.0	24475.9
8795.8	78.7(78.5)	78.2	55.96	73.96	73.89	71.14	64.07	55.23	43.23	22.58	-14.42	-78.25	-173.59	
4385.7	81.6(81.2)	81.7	70.26	76.40	77.58	74.65	68.48	61.00	50.96	34.61	5.88	-43.16	-119.82	
3549.3	84.3(83.8)	83.5	69.95	77.15	79.60	77.11	71.54	64.33	55.91	42.10	18.28	-21.97	-84.59	
3000.0	87.3(86.5)	85.2	71.04	77.44	81.07	79.94	74.58	68.28	60.73	48.60	28.00	-6.49	-59.87	
2615.2	89.0(88.1)	86.2	70.02	76.96	81.74	81.51	76.77	70.91	63.28	52.32	33.98	3.53	-43.39	
2333.6	90.2(89.1)	86.6	68.75	76.27	81.37	82.25	78.61	73.57	66.16	56.05	39.36	11.87	-30.33	
2121.3	91.3(90.0)	87.0	67.84	75.66	81.44	82.53	80.08	75.17	68.33	58.87	43.43	18.16	-20.47	
1958.1	92.1(90.6)	87.1	66.60	74.44	80.77	82.45	80.90	76.62	69.96	61.00	46.52	22.96	-12.92	
1831.2	92.3(90.7)	87.0	67.18	74.00	80.20	82.52	81.03	77.00	70.63	62.05	48.31	26.09	-7.67	
1732.1	92.6(90.9)	87.0	66.73	74.01	79.87	82.33	81.10	77.46	71.56	63.29	50.13	28.95	-3.14	
1655.1	92.4(90.6)	86.6	66.57	73.61	79.44	81.91	80.76	77.20	71.86	63.83	51.12	30.74	-.05	
1596.3	92.5(90.6)	86.6	66.29	73.00	79.41	81.41	80.85	77.27	71.98	64.12	51.75	32.00	2.19	
1552.9	92.6(90.4)	86.3	66.63	72.78	78.79	81.35	80.64	77.34	72.26	64.53	52.42	33.12	4.04	
1523.1	91.9(89.9)	85.8	66.06	72.46	78.38	80.78	80.10	76.92	71.77	64.13	52.20	33.21	4.63	
1505.7	91.9(89.9)	85.7	65.71	72.34	77.93	80.77	80.00	77.04	72.22	64.64	52.80	34.00	5.71	
1500.0	92.1(89.9)	85.6	65.75	71.96	77.37	80.43	80.12	77.41	72.97	65.41	53.60	34.86	6.67	
1505.7	91.7(89.4)	85.1	65.11	71.24	76.82	79.72	79.51	77.12	73.09	65.51	53.67	34.87	6.58	
1523.1	91.4(89.1)	84.7	63.96	70.33	76.25	79.04	79.18	76.89	73.38	65.75	53.81	34.82	6.24	
1552.9	90.7(88.4)	84.0	63.36	69.49	75.45	78.51	78.56	76.22	72.49	64.76	52.65	33.35	4.27	
1596.3	90.2(87.9)	83.6	62.02	68.53	74.95	78.43	77.90	75.94	72.26	64.40	52.04	32.28	2.47	
1655.1	89.6(87.3)	82.9	61.07	66.44	73.64	77.38	77.53	75.33	71.97	63.94	51.23	30.86	.08	

RUN NUMBER	= 456.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 921.000
SECONDARY TEMPERATURE (R)	= 542.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 9.788
VELOCITY RATIO	= .380
PRIMARY VELOCITY (FT/SEC)	= 1183.491
MASS FLOW RATIO	= 5.381
PRIMARY MASS FLOW (LB/SEC)	= .168
THRUST (LBS)	= 18.847
ENVIRONMENTAL TEMPERATURE (R)	= 529.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .018
INSTRUMENTATION NOISE FLOOR (DB)	= 54.588

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.068952E-01	126.1
500	5.918601E-03	107.7
1000	3.241596-02	115.1
2000	1.069086-01	120.3
4000	1.282656-01	121.1
8000	8.432996-02	119.3
16000	3.594186-02	115.6
31500	1.307526-02	111.2

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	153.3
20000	156.4
40000	159.4
80000	162.4

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	87.0	93.8	96.6	93.1	85.0	75.3	71.1	99.9
20.0	86.4	93.9	97.8	96.7	86.1	76.8	72.9	100.9
25.0	84.8	92.8	98.2	96.8	88.9	79.3	74.6	101.6
30.0	84.3	91.8	97.7	98.2	92.6	83.9	78.5	102.1
35.0	82.5	90.6	96.6	98.0	94.6	87.4	80.8	102.0
40.0	81.0	89.2	95.0	96.6	94.8	89.3	82.7	101.1
45.0	79.1	87.4	93.1	95.2	94.3	90.1	84.4	100.0
50.0	77.8	85.8	91.4	93.5	93.5	89.9	84.8	98.8
55.0	77.1	84.1	89.5	91.9	92.4	89.5	84.6	97.5
60.0	76.0	82.7	87.8	90.4	91.0	88.6	84.3	96.2
65.0	74.9	81.3	86.8	89.1	90.0	88.1	84.2	95.3
70.0	74.0	80.0	85.6	88.2	88.7	86.5	82.8	94.0
75.0	73.8	79.8	84.7	87.1	87.8	85.9	82.5	93.2
80.0	73.0	78.4	83.4	86.1	86.5	84.6	81.8	92.0
85.0	72.5	77.9	82.8	85.1	85.8	84.3	80.9	91.4
90.0	71.7	77.4	82.2	84.4	85.0	82.8	79.8	90.5
95.0	71.5	77.0	81.8	83.5	84.1	81.9	78.9	89.7
100.0	70.6	76.2	80.8	83.0	83.6	81.3	78.2	89.0
105.0	70.4	75.2	79.9	82.3	82.5	80.6	77.5	88.2
110.0	69.1	74.3	79.0	81.1	81.5	79.7	77.0	87.2
115.0	69.4	73.5	78.6	81.0	80.9	79.0	76.8	86.8

MODEL THRUST = 18.847 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS									
			15.3	30.7	61.4	122.8	245.6	491.2	967.0	1933.9	3837.2	7674.4	15348.8
8795.4	69.6(69.2)	73.3	62.55	69.33	72.08	68.31	59.55	47.96	39.25	29.62	.76	-44.05	-118.80
4385.7	74.4(73.8)	78.8	64.37	71.85	75.73	72.44	63.34	52.63	45.12	34.08	14.53	-20.10	-77.40
3549.3	78.8(78.0)	81.3	64.58	72.56	77.94	76.45	68.11	57.34	49.96	40.40	24.01	-4.59	-51.54
3088.0	82.7(81.7)	83.2	65.53	73.47	78.84	79.30	73.32	63.74	55.91	47.41	33.09	8.45	-31.70
2815.2	84.8(83.6)	84.2	64.94	73.02	79.03	80.31	76.58	68.62	59.89	52.10	39.26	17.37	-18.01
2333.6	86.2(84.7)	84.3	64.47	72.61	78.43	79.95	77.87	71.59	63.16	55.88	44.08	24.24	-7.65
2121.3	87.0(85.1)	84.0	63.38	71.68	77.35	79.37	78.24	73.34	65.98	59.09	48.09	28.79	.53
1958.1	87.1(84.9)	83.5	62.78	70.76	76.34	78.40	78.10	73.91	67.27	60.68	50.30	33.17	5.93
1831.2	86.9(84.5)	82.8	62.63	69.67	75.02	77.38	77.69	74.13	67.87	61.51	51.60	35.39	9.72
1732.1	86.4(83.7)	81.9	62.08	68.78	73.84	76.36	76.75	73.81	68.17	61.99	52.46	36.96	12.52
1655.1	86.1(83.1)	81.4	61.30	67.74	73.20	75.46	76.14	73.70	68.50	62.46	53.22	38.28	14.79
1596.3	85.1(82.2)	80.5	60.73	66.76	72.30	74.91	75.20	72.43	67.50	61.57	52.55	38.03	15.27
1552.9	84.7(81.6)	79.9	60.81	66.75	71.67	74.06	74.55	72.15	67.50	61.66	52.80	38.60	16.37
1523.1	83.7(80.5)	78.9	60.15	65.56	70.57	73.15	73.39	71.03	67.00	61.20	52.46	38.47	16.41
1505.7	83.1(79.9)	78.3	59.71	65.15	70.03	72.30	72.83	70.81	66.23	60.47	51.79	37.93	16.29
1500.6	82.1(78.9)	77.5	58.97	64.64	69.51	71.57	72.02	69.39	65.14	59.39	50.73	36.91	15.34
1505.7	81.2(77.9)	76.7	58.74	64.27	69.04	70.71	71.06	68.44	64.26	58.50	49.82	35.96	14.32
1523.1	80.2(77.0)	75.8	57.77	63.32	67.90	70.07	70.26	67.70	63.37	57.58	48.83	34.84	12.99
1552.9	79.2(76.0)	74.9	57.37	62.28	66.85	69.25	69.25	66.92	62.49	56.65	47.78	33.59	11.36
1596.3	78.0(74.8)	73.7	55.87	61.07	65.73	67.82	68.00	65.71	61.68	55.74	46.72	32.20	9.44
1655.1	77.1(73.9)	72.9	55.82	59.92	64.99	67.35	67.08	64.66	61.09	55.05	45.81	30.87	7.39

RUN NUMBER	= 457.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 925.000
SECONDARY TEMPERATURE (R)	= 545.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 9.788
VELOCITY RATIO	= .730
PRIMARY VELOCITY (FT/SEC)	= 1184.058
MASS FLOW RATIO	= 11.525
PRIMARY MASS FLOW (LB/SEC)	= .168
THRUST (LBS)	= 58.351
ENVIRONMENTAL TEMPERATURE (R)	= 526.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .032
INSTRUMENTATION NOISE FLOOR (DB)	= 59.573

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.05722E+00	133.1
500	6.61078E-02	118.2
1000	2.64844E-01	124.2
2000	5.78102E-01	127.6
4000	5.87043E-01	127.7
8000	3.32512E-01	125.2
16000	1.53289E-01	121.9
31500	7.53112E-02	118.8

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	155.5
20000	158.5
40000	161.5
80000	164.5

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	97.1	103.4	100.3	96.3	90.2	84.8	81.4	106.4
20.0	96.6	101.6	101.5	97.8	92.0	86.2	83.0	106.2
25.0	95.9	101.2	102.4	99.4	93.7	88.1	85.3	106.7
30.0	94.3	100.6	103.0	100.1	94.5	89.2	86.2	106.9
35.0	93.1	99.6	103.3	102.1	96.3	91.3	88.0	107.4
40.0	91.3	98.1	102.5	102.7	97.7	92.7	89.2	107.2
45.0	89.5	96.5	101.5	102.4	98.9	94.3	90.3	106.9
50.0	88.1	94.7	100.4	101.3	99.1	94.4	90.4	106.0
55.0	86.9	93.4	99.3	100.1	98.8	94.8	90.8	105.2
60.0	86.0	92.7	97.6	98.8	97.8	94.3	91.0	104.1
65.0	85.6	91.7	97.0	98.0	97.5	94.3	90.9	103.5
70.0	85.4	91.2	96.1	97.4	96.5	93.8	90.7	102.9
75.0	84.9	90.5	95.2	96.6	95.6	93.2	90.3	102.1
80.0	84.3	89.6	94.3	95.8	94.6	92.4	89.6	101.2
85.0	83.2	88.9	93.8	95.2	93.7	91.4	88.6	100.5
90.0	82.8	87.8	93.0	94.4	93.3	91.6	89.3	100.0
95.0	82.3	88.0	92.8	94.5	92.9	90.8	88.1	99.7
100.0	81.7	86.9	92.5	93.7	92.4	90.6	88.3	99.2
105.0	81.1	86.6	92.0	93.2	91.7	90.0	88.0	98.7
110.0	79.4	85.6	91.4	92.9	91.7	89.7	87.6	98.3
115.0	79.6	84.6	90.6	92.5	91.4	89.4	87.1	97.8

MODEL THRUST = 58.351 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 27.0	54.0	108.0	216.1	432.1	864.2	1701.5	3402.9	6751.8	13503.6	27007.2
5795.6	72.91	72.71	76.8	67.71	73.95	70.58	66.13	58.52	49.11	36.59	14.07	-26.04	-94.48	-208.65
4385.7	77.41	77.11	79.0	69.64	74.64	74.37	70.30	63.25	54.42	44.38	26.61	-4.47	-57.00	-138.46
3549.3	81.31	80.91	81.3	70.84	76.08	77.14	73.83	67.13	59.14	50.74	35.78	10.05	-33.03	-99.20
3000.0	83.61	83.21	82.9	70.67	76.91	79.28	76.05	69.60	62.27	54.61	41.51	19.30	-17.58	-73.98
2615.2	86.81	86.01	84.6	70.67	77.09	80.73	79.30	72.78	65.97	58.65	46.84	27.10	-5.43	-54.98
2333.6	88.51	87.61	85.4	69.81	76.59	80.96	80.96	75.25	68.64	61.58	50.72	32.78	3.43	-41.11
2121.3	89.61	88.51	85.8	68.89	75.99	80.86	81.52	77.43	71.35	64.03	53.88	37.30	10.34	-30.42
1958.1	89.71	88.61	85.6	68.14	74.75	80.18	81.12	78.37	72.30	65.23	55.63	40.09	14.98	-22.87
1831.2	90.11	88.81	85.3	67.57	74.04	79.86	80.47	78.75	73.49	66.62	57.46	42.73	19.05	-16.54
1732.1	89.91	88.41	84.7	67.13	73.78	78.71	79.73	78.22	73.54	67.50	58.67	44.58	22.02	-11.91
1655.1	90.01	88.41	84.5	67.18	73.24	78.44	79.28	78.33	74.02	68.04	59.46	45.86	24.17	-8.29
1596.3	89.71	88.01	84.1	67.27	73.01	77.85	79.06	77.74	73.86	68.31	59.93	46.71	25.68	-5.73
1552.9	89.31	87.51	83.6	66.98	72.64	77.17	78.68	77.07	73.57	68.25	60.02	47.07	26.54	-4.10
1521.1	88.51	86.71	82.9	66.80	71.79	76.47	77.82	76.22	72.96	67.84	59.71	46.95	26.75	-3.36
1505.7	87.91	86.01	82.1	65.53	71.28	76.08	77.30	75.48	72.10	66.93	58.86	46.22	26.21	-3.59
1500.0	87.61	85.71	81.7	65.17	70.21	75.31	76.83	75.04	72.29	67.72	59.67	47.06	27.12	-2.58
1505.7	87.61	85.21	81.5	64.62	70.35	75.13	76.68	74.66	71.50	66.49	58.42	45.78	25.77	-4.03
1521.1	88.61	86.71	82.9	65.97	69.14	74.73	75.76	74.07	71.21	66.52	58.39	45.64	25.44	-4.07
1552.9	89.71	87.81	84.1	67.22	69.46	74.94	75.03	73.11	70.16	66.00	57.77	44.83	24.29	-5.35
1596.3	89.11	87.31	83.5	67.23	67.46	73.16	74.44	72.86	69.82	65.18	56.90	43.58	22.56	-7.49
1655.1	88.31	86.51	82.7	67.09	66.89	72.11	73.76	72.24	69.12	64.21	55.86	42.04	20.35	-10.11

RUN NUMBER	= 458.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 924.000
SECONDARY TEMPERATURE (R)	= 538.000
PRIMARY PRESSURE RATIO	= 1.600
AREA RATIO	= 9.788
VELOCITY RATIO	= .876
PRIMARY VELOCITY (FT/SEC)	= 1166.058
MASS FLOW RATIO	= 15.089
PRIMARY MASS FLOW (LB/SEC)	= .168
THRUST (LBS)	= 88.156
ENVIRONMENTAL TEMPERATURE (R)	= 526.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .056
INSTRUMENTATION NOISE FLOOR (DB)	= 64.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.422554E+00	137.3
500	2.231286E-01	123.5
1000	7.711175E-01	128.9
2000	1.393838E+00	131.4
4000	1.374377E+00	131.4
8000	8.481516E-01	129.3
16000	5.068446E-01	127.0
31500	3.050416E-01	124.8

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.9
20000	160.9
40000	163.9
80000	166.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	103.2	107.2	105.1	100.8	95.5	90.7	87.1	110.9
20.0	102.5	107.2	106.5	102.3	97.3	92.3	88.9	111.5
25.0	101.4	106.7	107.1	103.9	98.7	93.7	90.4	111.7
30.0	99.9	105.7	106.9	104.5	99.3	94.7	91.5	111.4
35.0	98.2	104.1	107.1	105.4	100.9	96.6	93.2	111.4
40.0	96.1	102.3	105.7	105.4	101.5	97.6	94.8	110.6
45.0	94.4	100.3	104.6	105.0	101.7	97.9	94.9	109.9
50.0	92.5	98.8	103.3	104.2	101.8	98.3	95.0	109.1
55.0	91.2	97.9	102.5	103.3	101.7	98.9	95.7	108.6
60.0	90.9	96.8	101.8	102.7	101.4	98.7	95.9	108.1
65.0	89.9	95.6	100.4	101.7	100.8	98.3	95.7	107.3
70.0	90.3	95.1	99.7	101.0	100.0	97.7	95.3	106.6
75.0	89.4	94.6	99.3	100.6	99.6	97.9	95.7	106.3
80.0	88.7	94.1	98.6	100.0	99.3	97.5	95.4	105.8
85.0	88.6	93.5	98.1	99.8	99.8	97.2	95.4	105.5
90.0	87.4	92.6	97.2	99.2	98.5	97.2	95.3	105.0
95.0	86.4	91.9	96.7	98.9	98.1	97.3	95.9	104.8
100.0	86.3	92.1	96.5	98.4	98.1	97.4	96.2	104.7
105.0	85.7	91.4	96.3	98.3	97.7	97.4	95.9	104.5
110.0	84.9	90.6	95.8	98.4	97.8	97.6	96.2	104.5
115.0	84.7	89.4	95.5	98.0	97.7	97.4	96.0	104.2

MODEL THRUST = 88.156 FULL SCALE THRUST = 20000.000

L.	PNDB.		OASPL		OCTAVE BAND SOUND PRESSURE LEVELS 33.2	66.4	132.8	265.6	531.1	1062.3	2091.3	4182.6	8298.9	16597.8	33195.6
9799.9	77.0	78.9	79.4	72.07	79.90	73.64	68.55	61.11	51.14	38.15	9.16	-38.13	-116.91	-235.59	
4385.7	81.7	81.5	82.4	73.78	78.43	77.54	72.76	66.13	57.18	45.19	24.03	-12.48	-72.82	-163.37	
3949.3	85.0	84.7	84.4	74.45	79.74	79.95	76.31	69.84	61.70	51.37	33.68	3.56	-45.85	-119.69	
3000.0	87.2	86.9	85.6	74.45	80.26	81.30	78.52	72.26	64.90	55.77	40.35	14.42	-27.80	-90.68	
2615.2	89.4	88.9	86.7	73.95	79.78	82.69	80.67	75.24	68.59	59.97	46.14	23.16	-14.03	-69.23	
2333.6	90.6	89.9	86.8	72.88	78.98	82.35	81.69	76.92	71.00	63.57	50.91	30.07	-3.44	-53.02	
2181.3	91.2	90.5	86.9	71.93	77.84	82.01	82.21	78.13	72.65	65.20	53.42	34.21	3.47	-41.47	
1958.1	91.5	90.6	86.7	70.80	77.09	81.48	82.08	78.96	73.73	66.60	55.49	37.53	8.93	-33.16	
1831.2	91.9	90.9	86.8	70.61	76.71	81.28	81.95	79.59	75.06	68.32	57.74	40.74	13.80	-29.75	
1732.1	92.1	90.9	86.7	70.22	76.10	81.02	81.75	79.77	75.57	69.34	59.17	42.93	17.29	-20.29	
1655.1	91.9	90.6	86.2	69.65	75.33	80.66	81.16	79.63	75.63	69.80	59.95	44.30	19.66	-16.38	
1596.3	91.7	90.3	85.8	70.35	75.11	79.66	80.76	79.16	75.46	69.90	60.29	45.09	21.22	-13.64	
1552.9	91.8	90.4	85.8	69.64	74.83	79.50	80.58	79.07	75.98	70.63	61.20	46.34	23.03	-10.98	
1523.1	91.6	90.1	85.4	69.20	74.56	79.01	80.20	78.93	75.75	70.83	61.32	46.68	23.77	-9.64	
1505.7	91.6	90.1	85.2	69.12	74.07	78.58	80.11	78.52	75.99	70.86	61.62	47.12	24.43	-8.63	
1500.0	91.3	89.8	84.7	67.98	73.13	77.70	79.50	78.31	75.63	70.77	61.56	47.10	24.49	-8.46	
1505.7	91.4	89.8	84.5	66.95	72.46	77.17	79.19	77.86	75.68	71.33	62.10	47.59	24.90	-8.15	
1523.1	91.3	89.7	84.0	66.73	72.49	76.86	78.58	77.71	75.81	71.43	62.12	47.49	24.57	-8.43	
1552.9	90.9	89.3	83.7	65.95	71.72	76.81	78.34	77.13	75.84	70.98	61.47	46.68	23.38	-10.70	
1596.3	90.6	89.1	83.6	66.91	70.68	75.76	78.19	76.99	75.37	70.81	61.23	46.03	22.16	-12.70	
1655.1	89.8	88.3	82.7	64.45	69.13	75.11	77.39	76.56	74.69	70.06	60.21	44.56	19.92	-16.11	

RUN NUMBER	= 459.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 973.000
SECONDARY TEMPERATURE (R)	= 550.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .404
PRIMARY VELOCITY (FT/SEC)	= 1601.316
MASS FLOW RATIO	= .525
PRIMARY MASS FLOW (LB/SEC)	= .255
THRUST (LBS)	= 15.375
ENVIRONMENTAL TEMPERATURE (R)	= 532.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.12097E+00	137.1
500	1.20825E-02	110.8
1000	8.54820E-02	119.3
2000	5.05980E-01	127.0
4000	1.41701E+00	131.5
8000	1.80099E+00	132.6
16000	9.09409E-01	129.6
31500	3.90312E-01	125.9

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST.

THRUST	POWER LEVEL(DB)
10000	165.2
20000	168.2
40000	171.2
80000	174.3

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	90.6	99.2	104.9	107.0	108.1	100.9	94.4	112.3
20.0	90.3	98.7	105.5	108.5	109.0	104.1	96.6	113.5
25.0	89.2	97.5	105.5	108.6	108.5	103.5	96.7	113.3
30.0	86.8	96.4	104.9	109.0	109.1	105.5	99.0	113.8
35.0	86.0	94.7	103.5	108.7	109.0	104.7	99.1	113.4
40.0	83.3	92.6	101.7	108.3	109.6	105.5	100.1	113.5
45.0	81.6	90.6	99.2	105.2	107.2	104.4	99.9	111.2
50.0	77.6	88.2	96.5	102.2	104.3	103.0	99.7	108.9
55.0	77.8	86.1	94.2	99.4	102.1	101.9	99.6	107.2
60.0	77.4	84.9	92.1	96.9	99.8	100.1	98.1	105.2
65.0	76.6	84.0	91.0	95.6	98.5	98.2	96.2	103.7
70.0	76.1	84.0	90.3	94.7	97.0	97.0	95.6	102.5
75.0	76.1	82.9	89.4	93.6	96.0	96.4	95.1	101.8
80.0	76.1	82.1	88.2	92.5	94.5	94.8	94.7	100.6
85.0	74.5	82.1	88.1	91.7	94.3	94.5	93.5	100.0
90.0	75.1	81.9	87.8	91.6	94.3	93.5	93.0	99.6
95.0	74.5	81.0	87.0	90.9	93.4	93.5	92.5	99.1
100.0	73.9	80.7	86.7	90.3	92.2	93.0	92.0	98.4
105.0	73.3	80.4	86.5	90.0	92.2	92.0	91.5	97.9
110.0	72.6	79.1	85.6	89.4	91.8	92.0	92.2	97.8
115.0	72.6	78.3	85.2	89.1	91.1	91.5	90.5	97.0

MODEL THRUST = 15.375 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	13.9	27.7	55.5	110.9	221.8	443.6	873.4	1746.8	3465.8	6931.7	13863.4
9795.6	89.8(88.9)	88.1	66.99	75.87	81.29	83.22	83.70	78.86	64.36	51.90	29.17	-12.12	-81.84
4385.7	94.0(93.0)	91.9	69.13	77.54	84.33	87.21	87.24	81.07	70.53	60.37	42.44	10.46	-43.02
3549.3	96.0(94.7)	93.6	69.87	78.21	86.14	89.18	88.69	82.70	73.45	64.66	49.58	23.12	-20.73
3000.0	98.7(97.1)	95.5	69.01	78.51	86.98	90.98	90.86	86.37	77.84	69.94	56.72	33.90	-3.63
2615.2	99.9(98.0)	96.3	69.32	78.01	86.80	91.95	91.97	86.90	79.51	72.25	60.34	40.06	6.96
2333.6	101.5(99.4)	97.4	67.60	76.90	86.06	92.53	93.62	88.88	81.85	75.04	64.09	45.67	15.81
2121.3	101.6(98.1)	95.9	66.85	75.75	84.33	90.27	92.01	88.64	82.71	76.24	66.02	49.00	21.59
1958.1	99.7(96.7)	94.3	65.49	74.01	82.31	87.99	89.90	88.01	83.43	77.23	67.56	51.62	26.08
1831.2	99.3(96.0)	93.2	64.30	72.59	80.65	85.75	88.28	87.59	83.99	78.00	68.76	53.67	29.59
1732.1	98.1(94.5)	91.7	64.38	71.87	78.96	83.76	86.45	86.26	83.11	77.28	68.38	53.94	31.00
1655.1	96.9(93.1)	90.6	63.90	71.29	78.29	82.89	85.62	84.67	81.73	76.03	67.39	53.46	31.40
1590.3	96.1(92.5)	89.8	63.75	71.66	77.96	82.24	84.38	83.95	81.45	75.84	67.41	53.86	32.48
1552.9	95.9(92.1)	89.3	63.98	70.76	77.26	81.39	83.76	83.63	81.20	75.67	67.38	54.12	33.24
1523.1	95.8(92.1)	88.3	64.15	70.17	76.24	80.49	82.34	82.23	81.03	75.54	67.36	54.29	33.76
1505.7	94.5(90.5)	87.8	62.67	70.27	76.19	79.82	82.22	82.01	79.92	74.46	66.34	53.39	33.05
1500.0	93.9(89.9)	87.5	63.26	70.05	75.93	79.76	82.25	81.81	79.51	74.06	65.95	53.04	32.78
1505.7	93.5(89.5)	86.9	62.67	69.19	75.11	78.97	81.35	80.97	78.99	73.54	65.41	52.46	32.13
1523.1	92.8(88.8)	86.1	61.97	68.79	74.48	78.26	80.01	80.39	78.37	72.88	64.70	51.63	31.10
1552.9	91.9(87.9)	85.4	61.18	68.32	74.36	77.76	79.94	79.17	77.63	72.10	63.81	50.55	29.68
1596.3	91.7(87.5)	85.1	60.22	66.76	73.18	76.95	78.70	78.91	76.91	72.40	63.97	50.42	29.05
1655.1	90.3(86.5)	83.9	59.91	65.67	72.47	76.40	78.15	78.12	75.96	70.24	61.61	47.67	25.62

RUN NUMBER	= 460.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 918.000
SECONDARY TEMPERATURE (R)	= 543.000
PHIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .694
PRIMARY VELOCITY (FT/SEC)	= 1596.974
MASS FLOW RATIO	= .470
PRIMARY MASS FLOW (LB/SEC)	= .263
THRUST (LBS)	= 21.342
ENVIRONMENTAL TEMPERATURE (R)	= 532.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	9.48593E+00	137.4
500	2.42365E-02	113.8
1000	1.85414E-01	122.7
2000	8.86129E-01	129.5
4000	1.63568E+00	132.1
8000	1.59403E+00	132.0
16000	8.00798E-01	129.0
31500	3.39656E-01	125.3

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	164.1
20000	167.1
40000	170.1
80000	173.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	94.6	102.9	107.9	107.6	103.8	95.8	91.1	112.3
20.0	93.3	102.5	108.4	109.0	107.1	100.2	93.1	113.6
25.0	92.6	101.7	108.4	109.3	107.8	101.3	94.9	113.9
30.0	90.5	99.7	107.3	110.0	108.3	102.7	96.5	114.1
35.0	88.3	98.3	106.0	109.6	109.0	104.3	97.8	114.0
40.0	86.3	95.7	103.4	108.1	109.0	105.5	100.7	113.4
45.0	83.7	93.2	101.4	105.9	107.0	103.7	100.1	111.4
50.0	81.9	90.1	98.1	102.7	104.8	103.7	100.0	109.5
55.0	80.2	88.4	95.8	100.1	102.0	101.1	98.5	107.0
60.0	79.3	86.8	94.1	98.2	100.1	99.6	97.2	105.4
65.0	79.3	86.1	92.6	96.4	98.7	98.4	96.2	104.0
70.0	77.8	85.5	91.9	95.5	97.2	96.7	94.9	102.7
75.0	78.2	84.8	90.9	94.4	96.2	95.9	94.5	101.8
80.0	78.2	84.4	90.0	93.1	95.1	95.0	93.5	100.8
85.0	77.4	84.2	89.8	93.1	94.5	94.3	93.0	100.3
90.0	77.0	83.5	89.4	92.7	94.6	94.4	92.5	100.2
95.0	76.6	82.9	88.9	91.8	93.3	94.4	92.0	99.6
100.0	75.6	82.1	87.8	90.8	92.6	94.3	91.5	99.0
105.0	75.6	81.3	87.1	90.1	91.3	94.1	91.1	98.4
110.0	74.5	81.0	86.6	90.1	91.6	94.0	90.5	98.3
115.0	74.5	79.8	86.1	89.5	91.0	93.9	90.0	97.9

MODEL THRUST = 21.342 FULL SCALE THRUST = 20000.000

L.	PNOB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 16.3	32.7	65.3	130.7	261.3	522.7	1029.0	2058.0	4083.3	8166.7	16333.4
9795.6	88.2(85.7)	86.9	89.59	77.88	82.80	82.23	77.73	67.68	58.01	43.62	17.37	-29.70	-107.64
4385.7	91.6(90.9)	90.7	70.71	79.87	85.72	86.14	83.68	75.21	64.45	52.82	32.24	-4.11	-63.82
3549.3	94.5(93.6)	92.8	71.86	80.97	87.59	88.40	86.37	78.66	69.21	59.23	41.99	12.00	-36.89
3008.0	96.8(95.6)	94.4	71.20	80.39	87.99	90.55	88.45	81.77	73.05	64.15	49.11	23.30	-18.49
2615.2	98.8(97.3)	95.5	70.19	80.23	87.88	91.40	90.42	84.80	76.07	67.92	54.44	31.55	-5.26
2333.6	100.2(98.3)	95.8	69.18	78.60	86.28	90.89	91.45	87.18	80.32	72.73	60.38	39.63	6.46
2121.3	99.6(97.3)	94.7	67.41	76.96	85.12	89.49	90.39	88.34	82.90	75.73	62.22	43.09	12.66
1958.1	98.8(96.1)	93.4	66.32	74.52	82.48	87.00	88.83	87.10	81.67	74.82	63.97	46.08	17.76
1831.2	97.2(94.3)	91.5	65.27	73.42	80.78	85.01	86.65	85.12	80.96	74.36	64.02	47.09	20.41
1732.1	96.3(93.2)	90.3	64.81	72.27	79.56	83.60	85.30	84.19	80.25	73.85	63.90	47.73	22.33
1655.1	95.6(92.3)	89.4	65.20	72.04	78.46	82.15	84.26	83.41	79.85	73.59	63.96	48.37	23.97
1596.3	94.6(91.2)	88.4	64.06	71.69	78.06	81.58	83.11	82.02	78.87	72.73	63.32	48.19	24.55
1552.9	94.2(90.7)	87.8	64.89	71.28	77.31	80.77	82.39	81.55	78.78	72.73	63.50	48.69	25.61
1523.1	93.4(89.8)	86.9	64.86	70.99	76.60	79.67	81.41	80.78	77.96	71.96	62.85	48.27	25.58
1505.7	93.0(89.4)	86.6	64.17	70.89	76.46	79.77	80.95	80.17	77.63	71.67	62.63	48.18	25.71
1500.8	92.9(89.4)	86.5	63.78	70.29	76.13	79.34	81.06	80.37	77.19	71.24	62.23	47.82	25.63
1505.7	92.4(88.9)	85.8	63.30	69.54	75.89	78.44	79.78	80.33	76.65	70.69	61.65	47.20	24.73
1523.1	91.8(88.3)	85.1	62.73	68.75	74.37	77.12	78.98	80.06	75.99	70.00	60.89	46.31	23.61
1552.9	91.1(87.7)	84.3	62.06	67.78	73.58	76.47	77.44	79.70	75.36	69.30	60.68	45.27	22.19
1596.3	90.6(87.3)	83.9	60.74	67.25	73.01	76.18	77.50	79.35	74.46	68.32	58.92	43.78	20.14
1655.1	89.8(86.6)	83.1	60.42	65.49	72.00	75.70	76.54	78.92	73.54	67.33	57.69	42.11	17.71

RUN NUMBER	= 461.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 923.000
SECONDARY TEMPERATURE (R)	= 540.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .401
PRIMARY VELOCITY (FT/SEC)	= 1601.318
MASS FLOW RATIO	= .997
PRIMARY MASS FLOW (LB/SEC)	= .265
THRUST (LBS)	= 18.447
ENVIRONMENTAL TEMPERATURE (R)	= 532.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .112
INSTRUMENTATION NOISE FLOOR (DB)	= 70.564

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.001B0E+01	140.0
500	1.28847E-02	111.1
1000	1.04626E-01	120.2
2000	7.06933E-01	128.5
4000	2.35569E+00	133.7
8000	3.56697E+00	135.5
16000	2.21779E+00	133.5
31500	1.0530BE+00	130.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	167.3
20000	170.4
40000	173.4
80000	176.4

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	91.8	100.3	106.8	110.1	111.6	108.7	104.1	116.1
20.0	90.7	100.0	107.8	111.3	112.9	110.2	105.7	117.4
25.0	89.0	99.1	107.3	111.7	113.2	110.2	106.3	117.5
30.0	87.2	96.9	106.3	111.9	113.6	111.1	107.0	117.9
35.0	85.4	95.3	104.5	110.7	111.6	108.5	105.2	116.0
40.0	83.9	93.1	102.7	109.5	111.1	108.6	104.8	115.3
45.0	81.8	90.8	100.1	106.8	109.6	107.8	104.7	113.8
50.0	79.1	88.7	98.1	104.3	107.2	105.8	102.6	111.5
55.0	78.5	86.8	96.9	101.0	104.1	103.8	101.9	109.1
60.0	77.9	85.3	93.0	98.5	101.7	101.6	100.1	106.9
65.0	76.6	84.1	91.4	96.9	99.8	100.1	98.5	105.2
70.0	76.6	84.1	90.8	95.5	98.3	99.1	98.4	104.3
75.0	76.6	83.1	90.1	94.6	97.2	97.8	97.1	103.1
80.0	75.8	82.7	89.4	93.8	96.4	96.6	95.5	102.0
85.0	75.0	82.3	89.4	93.4	96.0	96.2	95.0	101.6
90.0	75.0	81.9	88.7	92.4	94.4	95.7	94.0	100.7
95.0	75.0	81.5	88.1	92.2	94.7	95.7	93.5	100.6
100.0	74.1	81.1	86.9	90.6	93.0	95.0	92.9	99.6
105.0	73.0	80.1	86.3	90.1	92.4	94.9	91.9	99.0
110.0	71.9	79.0	85.7	90.0	91.3	93.4	91.5	98.1
115.0	71.9	78.4	85.4	89.4	90.6	93.7	91.1	97.8

MODEL THRUST = 18.447 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 15.2	30.4	60.7	121.5	243.0	485.9	956.7	1913.3	3796.2	7592.5	15184.9
5795.6	93.9(	92.0(	90.0	67.41	75.97	82.36	85.44	88.29	81.97	72.43	59.93	34.30	-10.13	-84.34
4385.7	98.0(	96.8(	94.5	68.76	78.04	85.76	89.18	90.23	86.18	78.25	67.31	47.94	13.59	-43.30
3549.3	100.6(	99.1(	98.7	68.87	78.96	87.12	91.41	92.54	88.42	81.72	72.29	56.05	27.68	-18.94
3000.0	102.9(	101.0(	98.5	68.61	78.28	87.41	93.12	94.43	91.04	84.60	76.16	61.97	37.52	-2.34
2615.2	102.5(	100.4(	98.0	67.91	77.86	87.07	93.10	93.77	89.77	84.46	76.72	63.96	42.27	7.13
2333.6	103.2(	100.8(	98.3	67.48	76.64	86.23	92.93	94.28	91.03	85.43	78.21	66.50	46.82	15.14
2121.3	103.0(	100.2(	97.6	66.21	75.12	84.41	91.08	93.66	91.15	86.44	79.59	68.68	50.51	21.45
1958.1	101.6(	98.7(	96.0	64.14	73.81	83.11	89.25	91.91	89.89	85.19	78.65	68.34	51.34	24.28
1831.2	100.4(	97.1(	94.1	64.16	72.50	80.49	86.55	89.42	88.55	85.24	78.92	69.09	53.00	27.50
1732.1	98.9(	95.4(	92.5	64.05	71.45	79.12	84.51	87.54	86.92	84.03	77.89	68.43	53.04	28.76
1655.1	97.8(	94.2(	91.2	63.10	70.64	77.96	83.34	86.10	85.79	82.92	76.92	67.74	52.91	29.58
1596.1	97.5(	93.7(	90.6	61.42	70.95	77.63	82.30	84.93	85.20	83.21	77.32	68.36	53.95	31.34
1552.9	96.6(	92.7(	89.7	63.66	70.17	77.17	81.58	84.07	84.14	82.23	76.42	67.62	53.52	31.44
1523.1	95.5(	91.7(	88.8	63.07	69.97	76.59	81.00	83.35	83.09	80.81	75.05	66.36	52.48	30.76
1505.7	94.2(	91.4(	88.5	62.34	69.48	76.69	80.65	83.00	82.78	80.50	74.78	66.16	52.39	30.89
1500.6	94.5(	90.7(	87.6	62.37	69.31	76.11	79.69	81.51	82.37	79.47	73.75	65.15	51.43	30.00
1505.7	94.2(	90.6(	87.5	62.14	68.86	75.41	79.52	81.82	82.34	79.92	73.19	64.57	50.81	29.31
1523.1	93.5(	90.0(	86.6	61.32	68.31	74.89	77.81	79.97	82.34	79.26	72.50	63.82	49.93	28.21
1552.9	92.5(	88.9(	85.6	60.13	67.15	73.98	77.14	79.23	81.22	77.03	71.26	62.47	48.37	26.29
1596.1	91.2(	87.5(	84.4	58.73	65.85	72.56	76.73	77.89	79.47	76.36	70.47	61.51	47.10	24.49
1655.1	90.6(	87.1(	83.8	58.42	64.94	71.94	75.87	76.87	79.42	76.53	69.53	60.35	45.52	22.18

RUN NUMBER	= 462.00 (826.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 917.000
SECONDARY TEMPERATURE (R)	= 535.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .649
PRIMARY VELOCITY (FT/SEC)	= 1596.104
MASS FLOW RATIO	= 1.094
PRIMARY MASS FLOW (LBM/SEC)	= .262
THRUST (LBS)	= 22.183
ENVIRONMENTAL TEMPERATURE (R)	= 533.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .126
INSTRUMENTATION NOISE FLOOR (DB)	= 71.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.619406+01	162.1
500	2.958796-02	114.7
1000	2.310996-01	123.6
2000	1.372456+00	131.4
4000	3.982756+00	136.0
8000	5.677286+00	137.5
16000	3.399136+00	135.3
31500	1.501716+00	131.8

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	168.6
20000	171.6
40000	174.7
80000	177.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	94.9	103.5	108.8	110.7	111.6	109.0	104.0	116.7
20.0	94.1	103.4	109.8	111.8	113.5	111.6	106.4	118.3
25.0	93.0	102.1	110.1	113.1	114.3	111.1	106.2	118.8
30.0	90.5	100.7	109.1	113.8	115.1	112.4	108.3	119.5
35.0	89.6	99.2	108.2	114.1	115.0	111.5	107.7	119.3
40.0	87.4	97.0	106.1	112.7	114.1	111.0	106.8	118.2
45.0	84.6	94.5	103.4	109.6	112.0	109.6	105.7	116.0
50.0	83.6	91.6	100.6	106.3	109.1	108.0	104.7	113.6
55.0	82.0	90.1	98.1	103.4	106.4	106.1	103.7	111.4
60.0	81.1	88.3	96.8	101.4	104.1	105.0	103.3	109.9
65.0	80.6	87.6	95.1	100.1	102.4	101.9	100.4	107.6
70.0	80.1	87.4	94.2	98.4	100.8	100.7	99.3	106.3
75.0	80.1	87.1	93.6	98.1	100.2	99.8	98.5	105.6
80.0	79.5	86.0	92.9	97.3	98.9	99.2	97.5	104.7
85.0	78.9	86.0	92.5	96.5	98.1	98.1	96.5	103.9
90.0	78.9	85.5	92.2	95.8	97.5	97.5	95.5	103.1
95.0	78.9	84.8	91.5	94.8	96.3	97.0	95.0	102.4
100.0	78.3	84.8	90.8	94.3	95.8	96.5	94.5	101.9
105.0	77.6	83.4	90.0	94.0	95.4	96.0	93.9	101.4
110.0	76.8	83.0	89.8	93.8	95.2	95.9	93.6	101.0
115.0	76.8	81.6	88.6	93.1	95.0	95.5	93.0	100.7

MODEL THRUST = 22.183 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 16.7	33.3	66.6	133.2	266.4	532.9	1049.1	2098.2	4163.0	8326.1	16652.1
8795.8	93.1(92.4)	90.4	69.74	78.33	83.52	85.14	85.30	80.62	70.60	55.95	29.27	-18.52	-97.47
4385.7	98.2(97.1)	94.6	71.33	80.66	87.02	88.81	89.87	86.44	77.45	65.63	44.71	7.82	-52.65
3549.3	101.0(99.7)	97.1	72.14	81.22	89.12	91.98	92.68	88.25	80.26	70.12	52.62	22.19	-27.32
3000.0	103.8(102.1)	99.3	71.06	81.25	89.44	94.18	95.10	91.27	84.54	75.51	60.25	34.06	-8.25
2615.2	105.0(103.1)	100.4	71.39	80.93	89.88	95.68	96.25	91.84	85.77	77.51	63.82	40.61	3.34
2333.6	105.2(103.1)	100.3	70.12	79.75	88.78	95.28	96.39	92.41	86.20	78.51	65.97	44.96	11.36
2121.3	104.3(102.0)	99.0	68.21	78.03	86.94	93.09	95.12	92.01	85.26	78.99	67.32	47.93	17.13
1958.1	102.9(100.2)	97.2	67.88	75.89	84.47	90.47	92.95	91.23	86.18	79.24	68.24	50.10	21.45
1831.2	101.8(98.7)	95.6	66.88	74.98	82.92	88.15	90.94	89.93	85.90	79.30	68.81	51.66	24.67
1732.1	101.3(98.0)	94.5	66.45	73.66	82.09	86.59	89.12	89.40	86.17	79.69	69.61	53.23	27.53
1656.3	99.2(95.8)	92.8	66.35	73.36	80.83	85.75	87.77	86.74	83.79	77.46	67.70	51.91	27.22
1596.3	98.3(94.9)	91.7	66.14	73.43	80.18	84.39	86.54	85.82	83.07	76.66	67.33	52.00	28.08
1552.9	97.9(94.4)	91.6	66.38	73.42	79.99	84.26	86.14	85.26	82.53	76.41	67.08	52.06	28.71
1523.1	97.3(93.8)	90.6	65.98	72.50	79.35	83.62	85.67	84.79	81.81	75.79	66.53	51.76	28.80
1505.7	96.5(93.1)	89.9	65.48	72.40	79.00	82.93	84.36	84.09	80.90	74.87	65.72	51.08	28.35
1500.0	95.7(92.3)	89.2	65.52	72.03	78.72	82.29	83.77	83.29	79.92	73.90	64.77	50.18	27.63
1505.7	95.0(91.6)	88.4	65.68	71.36	78.01	81.31	82.56	82.68	79.40	73.37	64.22	49.58	26.85
1523.1	94.4(91.0)	87.8	64.74	71.26	77.19	80.43	82.01	82.12	78.77	72.71	63.48	48.71	25.79
1552.9	93.7(90.3)	87.1	63.88	69.44	76.23	80.22	81.38	81.46	78.82	71.90	62.55	47.55	24.20
1596.3	92.9(89.6)	86.5	62.88	68.99	75.78	79.73	80.89	80.69	77.34	71.13	61.61	46.27	22.36
1655.1	92.2(89.0)	85.8	62.57	67.34	74.34	78.76	80.44	80.14	76.34	70.02	60.25	44.46	19.77

RUN NUMBER	= 463.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 921.000
SECONDARY TEMPERATURE (R)	= 533.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 4.856
VELOCITY RATIO	= .399
PRIMARY VELOCITY (FT/SEC)	= 1599.842
MASS FLOW RATIO	= 2.677
PRIMARY MASS FLOW (LB/SEC)	= .283
THRUST (LBS)	= 27.037
ENVIRONMENTAL TEMPERATURE (R)	= 533.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .045
INSTRUMENTATION NOISE FLOOR (DB)	= 62.585

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.6948TE+00	134.3
500	1.78818E-02	112.5
1000	1.08897E-01	120.4
2000	4.15843E-01	126.2
4000	7.00359E-01	128.5
8000	7.15109E-01	128.5
16000	4.76291E-01	126.8
31500	2.60309E-01	124.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.0
20000	163.0
40000	166.0
80000	169.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	92.9	99.8	102.8	100.4	94.4	92.7	92.1	106.8
20.0	91.6	99.6	103.7	101.7	95.7	93.1	93.2	107.6
25.0	90.8	98.8	104.0	103.4	98.6	94.1	94.2	108.3
30.0	89.2	97.4	104.0	104.6	101.0	95.6	94.3	109.0
35.0	86.9	95.9	102.7	105.6	103.6	98.4	94.7	109.6
40.0	84.8	93.7	101.1	105.3	105.4	101.8	97.0	110.2
45.0	82.7	91.5	99.1	103.6	104.8	101.7	98.0	109.3
50.0	81.7	89.4	96.7	101.3	103.1	101.6	98.0	107.8
55.0	79.7	87.6	94.4	98.6	100.8	100.3	97.4	105.9
60.0	79.0	86.6	92.9	96.7	99.3	99.6	97.8	104.9
65.0	78.6	85.6	91.8	95.6	97.9	98.3	96.3	103.6
70.0	78.4	84.7	91.0	94.4	96.7	96.9	95.8	102.4
75.0	77.9	84.2	90.2	93.6	96.0	96.0	94.5	101.6
80.0	77.1	83.8	89.5	92.8	94.8	95.5	93.5	100.7
85.0	76.3	83.4	89.2	92.2	94.3	94.5	92.5	100.0
90.0	76.3	82.3	88.2	91.5	94.0	94.0	92.0	99.5
95.0	76.5	81.7	87.3	90.4	92.7	93.0	91.0	98.4
100.0	79.6	81.3	86.6	90.3	92.6	92.5	90.5	98.1
105.0	75.0	81.1	86.2	89.6	91.9	92.0	90.0	97.5
110.0	76.2	80.2	85.5	88.8	90.9	91.5	89.0	96.7
115.0	74.6	79.1	84.9	88.4	90.7	91.0	88.5	96.3

MODEL THRUST = 27.037 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 18.4	36.8	73.5	147.1	294.1	588.3	1176.2	2316.4	4596.0	9189.9	18389.8
5795.6	79.01	78.31	80.3	86.88	73.80	76.89	73.93	67.07	63.01	55.65	40.66	11.59	-40.61	-134.21
4385.7	83.61	82.61	81.6	69.02	76.00	80.04	77.82	71.31	66.65	62.51	49.67	26.95	-12.83	-77.27
3549.3	87.41	86.11	85.2	69.00	77.07	82.12	81.42	76.02	70.11	66.65	55.69	36.73	3.96	-48.76
3000.0	90.21	88.81	88.3	68.85	77.11	83.62	84.10	79.99	73.41	69.13	59.40	42.91	14.75	-30.28
2615.2	93.21	91.81	90.1	67.82	76.79	83.53	86.33	83.90	77.63	71.32	62.45	47.69	22.76	-16.88
2331.6	96.01	94.11	91.5	66.74	75.53	82.97	86.99	86.81	82.15	75.13	66.90	53.40	30.83	-4.55
2121.3	98.51	96.51	91.4	65.43	74.19	81.71	86.17	87.08	85.09	77.22	69.46	56.92	36.13	3.41
1958.1	98.21	97.01	90.5	65.07	72.85	80.08	84.53	86.09	85.78	78.26	70.87	59.06	39.64	9.21
1831.2	95.11	92.41	89.2	63.67	71.58	78.35	82.47	84.43	83.12	78.46	71.35	60.11	41.76	13.10
1732.1	95.11	92.01	88.6	63.53	71.06	77.30	81.15	83.38	81.00	79.44	72.56	61.77	44.25	16.98
1655.1	94.21	91.11	87.7	63.47	70.53	76.61	80.36	82.19	82.08	78.65	73.74	61.20	44.42	18.21
1596.3	93.51	90.21	86.9	63.56	69.93	76.13	79.44	81.51	81.09	79.02	73.44	61.26	44.87	19.51
1552.0	92.91	89.61	86.4	63.51	69.58	75.66	78.87	81.09	80.41	77.39	73.01	60.93	44.90	20.19
1523.1	92.41	89.11	86.2	63.76	69.35	75.45	78.36	80.01	80.11	76.61	70.22	60.37	44.59	20.25
1505.7	91.61	88.41	85.1	61.96	69.14	74.94	77.84	79.66	79.24	75.74	69.16	59.59	43.96	19.87
1500.0	91.11	87.91	84.6	61.98	68.63	73.85	77.15	79.35	78.75	75.30	68.94	59.19	43.61	19.50
1505.7	90.01	86.71	83.5	62.24	67.15	72.46	76.10	78.05	77.72	74.21	67.84	58.07	42.44	18.34
1523.1	88.41	86.21	81.1	61.23	66.90	72.11	75.77	77.89	77.10	73.61	67.20	57.35	41.57	17.41
1552.0	88.71	85.91	82.3	60.39	66.55	71.73	75.26	77.50	76.66	72.98	66.41	56.43	40.40	16.15
1596.3	87.61	86.51	81.2	59.43	65.16	70.65	73.83	75.70	74.68	71.60	65.02	54.84	38.45	13.97
1655.1	86.71	83.61	80.5	59.48	63.37	69.74	73.18	75.23	74.40	70.71	64.00	53.56	36.60	12.43

RUN NUMBER	= 464.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 920.000
SECONDARY TEMPERATURE (R)	= 538.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 4.856
VELOCITY RATIO	= .650
PRIMARY VELOCITY (FT/SEC)	= 1598.713
MASS FLOW RATIO	= 4.963
PRIMARY MASS FLOW (LB/SEC)	= .265
THRUST (LBS)	= 55.592
ENVIRONMENTAL TEMPERATURE (R)	= 533.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.800
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .050
INSTRUMENTATION NOISE FLOOR (DB)	= 63.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.38803E+00	137.3
500	8.05183E-02	119.1
1000	4.49585E-01	126.5
2000	1.20424E+00	130.8
4000	1.46460E+00	131.7
8000	1.09288E+00	130.4
16000	6.84129E-01	128.4
31500	4.12081E-01	126.1

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	159.9
20000	162.9
40000	165.9
80000	168.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	99.1	105.0	105.6	102.1	96.3	94.3	90.4	110.0
20.0	98.8	105.8	106.9	103.0	97.4	94.3	91.0	110.9
25.0	96.7	105.2	107.4	104.4	98.7	94.9	92.3	111.2
30.0	95.3	103.2	107.6	105.2	99.7	95.8	93.1	111.1
35.0	93.8	102.2	107.1	106.6	101.5	97.3	94.5	111.4
40.0	91.6	99.7	105.8	107.0	103.5	98.3	95.0	111.2
45.0	89.5	97.5	104.0	106.5	104.6	100.4	96.4	110.8
50.0	87.6	95.6	102.3	105.0	104.3	101.1	97.2	109.9
55.0	86.6	94.4	100.7	104.0	104.2	101.6	98.0	109.4
60.0	86.0	93.4	99.6	102.8	102.9	101.1	97.7	108.4
65.0	85.2	92.4	98.6	101.5	101.6	100.5	98.1	107.5
70.0	85.6	92.2	98.5	100.8	100.8	99.6	97.3	106.8
75.0	85.0	91.7	97.4	100.2	101.1	99.9	98.0	106.7
80.0	84.5	91.3	96.7	99.4	100.3	99.3	98.1	106.1
85.0	83.2	90.1	95.8	98.2	98.6	98.0	97.5	104.9
90.0	83.5	89.2	94.7	97.6	98.2	97.5	97.0	104.3
95.0	82.1	88.9	94.3	97.5	98.0	97.5	96.5	104.1
100.0	81.6	88.0	93.7	96.8	97.8	97.0	96.0	103.6
105.0	81.4	87.7	93.1	96.1	97.0	97.0	95.5	103.1
110.0	80.4	86.8	92.6	96.0	96.8	96.5	95.5	102.8
115.0	80.2	85.9	92.1	95.7	96.7	96.5	95.0	102.6

MODEL THRUST = 55.592 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	26.4	OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
				52.7	105.4	210.9	421.8	843.6	1686.7	3372.5	6590.3	13180.5	26361.0
8795.6	79.3(79.1)	80.4	69.95	75.75	76.18	72.22	64.91	58.96	46.33	24.29	-15.04	-82.33	-187.05
4385.7	83.6(83.3)	83.9	72.05	79.01	80.81	75.74	68.91	62.94	52.93	35.51	5.02	-44.63	-126.60
3949.1	86.8(86.3)	86.0	71.84	80.27	82.38	79.05	72.65	66.24	56.26	43.60	18.35	-24.02	-89.32
3000.0	89.1(88.6)	87.3	71.86	79.75	84.05	81.33	75.09	69.23	61.98	49.13	27.32	-8.96	-64.61
2615.2	91.7(90.9)	88.8	71.54	79.90	84.80	84.06	78.25	72.24	65.91	53.91	34.52	2.91	-46.39
2333.8	93.2(92.2)	89.5	70.31	78.41	84.44	85.47	81.33	74.57	67.69	57.03	39.46	10.51	-33.46
2121.3	94.5(93.2)	89.8	68.93	77.02	83.55	85.81	83.08	77.74	70.51	60.56	44.24	17.71	-23.52
1954.1	94.9(93.5)	89.5	67.90	75.86	82.49	85.02	83.86	79.28	72.49	62.99	47.71	22.99	-16.38
1831.2	95.5(93.9)	89.5	67.63	75.21	81.44	84.44	84.33	80.53	74.15	65.13	50.65	27.34	-7.88
1732.1	95.2(93.5)	88.9	67.39	74.77	80.89	83.94	83.51	80.64	74.56	65.87	52.01	29.80	-3.60
1656.1	94.9(93.0)	88.1	66.99	74.12	80.26	83.01	82.73	80.51	74.57	67.13	53.76	32.60	.38
1596.3	94.5(92.6)	88.0	67.65	74.27	80.48	82.67	82.19	79.97	74.23	66.98	53.98	33.27	2.25
1552.9	95.1(93.0)	88.1	67.30	73.99	80.44	82.68	81.77	80.57	74.25	68.15	55.42	35.18	4.93
1523.1	94.9(92.7)	87.6	66.96	73.72	79.98	81.69	82.16	80.18	74.63	68.63	56.08	36.19	6.45
1505.7	94.1(91.9)	86.5	65.81	72.61	78.10	80.64	80.68	78.99	74.22	68.27	55.83	36.13	6.70
1500.0	93.6(91.3)	85.9	66.14	71.81	77.26	79.97	80.22	78.81	74.71	67.78	55.38	35.74	6.42
1505.7	93.2(90.9)	85.7	64.69	71.65	76.94	79.44	80.01	78.67	75.10	67.24	54.80	35.10	5.87
1523.1	92.5(90.3)	85.1	64.07	70.68	76.67	79.02	79.66	77.85	74.54	66.53	53.98	34.09	4.95
1552.9	91.8(89.6)	84.4	63.71	69.93	75.99	78.73	79.71	77.69	73.81	65.71	52.84	32.75	3.60
1596.3	91.3(89.1)	83.9	62.50	68.80	74.98	77.97	78.26	76.87	73.46	65.22	52.21	31.81	.49
1665.1	90.4(88.3)	83.2	61.97	67.59	73.76	77.23	77.04	76.09	72.69	64.06	50.48	29.32	-2.73

RUN NUMBER	= 465.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 0.100
PRIMARY TEMPERATURE (R)	= 923.000
SECONDARY TEMPERATURE (R)	= 535.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 9.788
VELOCITY RATIO	= .399
PRIMARY VELOCITY (FT/SEC)	= 1601.318
MASS FLOW RATIO	= 5.175
PRIMARY MASS FLOW (LB/SEC)	= .265
THRUST (LBS)	= 40.385
ENVIRONMENTAL TEMPERATURE (R)	= 525.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .049
INSTRUMENTATION NOISE FLOOR (DB)	= 60.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	9.13297E+00	139.6	THRUST	POWER LEVEL(DB)
			10000	163.5
500	3.35887E-02	115.3	20000	166.6
1000	1.87688E-01	122.7	40000	169.6
2000	7.34008E-01	128.7	80000	172.6
4000	1.74249E+00	132.4		
8000	3.08990E+00	134.9		
16000	2.29560E+00	133.6		
31500	1.04970E+00	130.2		

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	95.5	101.6	103.8	104.4	105.7	105.2	101.5	111.9
20.0	94.5	101.7	105.7	106.5	108.4	107.6	103.1	113.9
25.0	93.3	100.8	106.1	107.4	108.5	107.2	103.6	114.1
30.0	91.7	99.6	106.4	109.7	111.2	109.2	105.3	116.0
35.0	89.8	98.6	105.4	110.2	112.2	110.2	105.7	116.6
40.0	87.8	96.6	104.4	109.4	112.3	110.7	106.5	116.5
45.0	86.3	94.5	101.9	107.2	110.8	109.2	105.1	114.9
50.0	84.1	92.8	99.1	105.0	108.5	107.5	104.0	112.9
55.0	82.8	90.4	97.6	101.6	106.9	104.7	102.5	110.0
60.0	81.6	89.2	95.8	99.8	103.2	103.2	100.9	108.3
65.0	81.3	88.0	93.8	97.9	100.9	101.0	99.3	106.3
70.0	80.5	87.3	93.0	96.6	99.3	99.4	97.7	104.8
75.0	80.6	86.6	92.1	95.6	98.2	98.6	97.8	104.1
80.0	79.5	85.8	91.5	94.8	97.2	97.0	96.5	102.9
85.0	79.9	86.3	90.8	93.7	96.1	96.0	95.0	101.8
90.0	78.6	84.9	90.4	92.8	95.8	95.0	94.0	100.8
95.0	78.6	84.1	89.9	92.2	93.8	94.0	93.1	99.9
100.0	78.1	83.9	89.5	91.5	93.0	93.0	92.5	99.1
105.0	77.6	83.6	88.7	90.9	92.5	92.5	91.5	98.6
110.0	76.5	83.1	87.8	90.3	91.6	91.6	90.9	97.8
115.0	76.5	81.8	87.6	89.7	90.9	91.0	90.9	97.3

MODEL THRUST = 40.385 FULL SCALE THRUST = 20000.000

L=				OCTAVE BAND SOUND PRESSURE LEVELS									
				22.5	44.9	89.9	179.7	359.5	719.0	1415.5	2831.0	5617.0	11234.0	22468.1
8745.6	85.9	85.0	84.1	87.72	73.80	75.85	78.09	76.19	72.56	81.95	82.83	7.97	-42.02	-167.80
4385.7	91.2	86.4	82.0	84.18	76.34	80.19	80.71	81.74	78.53	68.54	53.34	26.43	-19.59	-92.50
3549.3	93.7	92.9	88.1	84.85	77.37	82.50	83.91	83.93	80.68	72.59	59.71	37.46	-.45	-80.33
3000.0	98.0	96.7	92.8	89.46	77.55	84.27	87.46	88.22	84.61	76.89	65.54	46.26	13.76	-37.06
2618.2	100.2	98.8	94.4	90.94	77.75	84.43	89.13	90.54	87.10	79.38	69.10	51.91	23.19	-21.49
2333.6	101.8	99.9	95.6	91.26	78.76	84.66	89.33	91.78	88.81	81.68	72.18	56.51	30.57	-9.23
2121.3	101.0	99.2	94.8	91.27	79.45	85.30	89.98	91.12	88.39	81.65	72.75	58.23	34.37	-2.64
1950.1	100.8	97.9	93.5	89.88	78.44	81.68	88.66	89.57	87.91	81.47	73.13	59.50	37.24	3.03
1811.2	97.9	95.9	91.1	85.08	78.75	83.71	88.60	89.19	88.91	82.81	74.01	60.87	38.87	6.68
1732.1	96.8	94.4	90.2	84.37	77.98	78.48	82.12	89.41	84.43	80.00	72.18	59.77	39.76	9.14
1695.1	95.1	92.7	88.4	84.44	77.11	86.86	83.13	89.56	82.24	79.95	71.36	59.36	40.08	10.70
1596.3	94.2	91.5	87.3	84.55	78.14	75.19	74.90	83.26	81.44	77.76	70.32	58.69	39.96	11.51
1552.0	94.2	91.6	86.8	84.37	78.24	75.76	79.12	81.44	80.08	78.25	70.94	59.51	41.26	13.48
1523.1	93.1	90.3	85.9	81.36	69.60	79.36	78.65	80.51	79.55	77.16	69.90	58.83	40.65	13.37
1505.7	92.1	89.2	84.7	81.81	69.33	74.17	77.54	79.56	79.08	78.79	68.60	57.62	39.62	12.62
1500.0	91.2	88.3	84.0	82.53	68.15	74.29	76.13	78.35	77.70	76.86	67.68	56.53	38.79	11.98
1505.7	90.1	87.3	83.0	82.63	68.08	73.81	75.58	77.28	76.63	75.85	66.65	55.68	37.68	10.84
1523.1	89.2	86.4	82.1	81.96	67.74	73.80	74.47	76.14	75.54	73.11	65.47	54.40	36.61	9.15
1552.0	88.2	85.5	81.2	81.33	67.58	72.50	74.23	75.71	74.80	71.50	64.27	53.15	34.84	7.12
1596.3	87.2	84.5	80.3	80.97	67.37	71.18	73.55	74.74	73.66	71.01	63.50	51.92	33.23	4.74
1655.1	86.3	83.6	79.4	80.66	66.92	70.95	72.68	73.67	72.69	70.21	62.81	50.62	31.35	1.97

RUN NUMBER	= 466.000
AXIAL POSITION OF PRIMARY NAT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 923.000
SECONDARY TEMPERATURE (R)	= 542.000
PRIMARY PRESSURE RATIO	= 2.500
AREA RATIO	= 9.748
VELOCITY RATIO	= .651
PRIMARY VELOCITY (FT/SEC)	= 1601.318
MASS FLOW RATIO	= 9.673
PRIMARY MASS FLOW (LB/SEC)	= .265
THRUST (LBS)	= 96.194
ENVIRONMENTAL TEMPERATURE (R)	= 525.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.700
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .112
INSTRUMENTATION NOISE FLOOR (DB)	= 70.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.939015E+01	142.9
500	2.468786E-01	123.9
1000	1.066936+00	130.3
2000	2.687596+00	134.3
4000	4.539166+00	136.6
8000	5.643366+00	137.5
16000	3.553366+00	135.5
31500	1.652846+00	132.2

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	163.0
20000	166.1
40000	169.1
80000	172.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	104.6	108.4	108.4	100.5	107.4	104.6	98.5	114.4
20.0	103.6	109.5	110.1	110.0	110.2	107.3	102.9	116.9
25.0	102.1	109.2	111.0	111.1	111.2	108.4	103.2	117.0
30.0	100.3	107.3	111.1	111.7	112.0	109.6	105.1	118.0
35.0	97.4	105.3	110.7	112.9	112.6	109.3	105.1	118.1
40.0	95.6	103.1	109.1	112.9	113.4	110.5	106.1	118.3
45.0	93.5	101.2	108.0	111.9	113.6	110.5	105.5	117.8
50.0	92.4	99.3	106.6	110.3	112.1	110.0	105.5	116.6
55.0	90.5	97.9	104.8	108.0	109.8	108.3	104.6	114.7
60.0	90.3	96.8	103.4	106.5	108.3	107.1	104.0	113.4
65.0	90.3	96.1	101.4	104.4	106.1	105.3	103.1	111.5
70.0	90.6	95.1	100.7	103.6	104.6	103.4	101.6	110.1
75.0	89.6	94.4	99.5	102.4	103.4	102.2	100.8	109.1
80.0	89.1	94.6	99.4	101.9	102.5	101.7	100.2	108.5
85.0	88.0	93.7	98.8	101.0	101.5	100.8	100.0	107.7
90.0	87.7	92.9	98.1	100.2	101.2	100.5	100.2	107.4
95.0	87.7	93.1	97.5	99.7	100.6	100.7	100.4	107.1
100.0	87.0	92.4	96.8	99.0	100.3	101.0	100.6	107.0
105.0	86.6	92.0	96.7	98.9	100.0	100.9	99.7	106.7
110.0	86.1	91.5	96.1	98.7	100.2	101.0	100.2	106.9
115.0	86.3	90.8	95.7	98.3	100.6	101.8	100.5	107.0

MODEL THRUST = 96.194 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 34.7	69.4	138.7	277.4	554.8	1109.6	2219.2	4438.5	8869.0	17738.0	34674.8
4385.7	89.4	89.2	86.4	74.49	80.89	80.71	80.40	78.47	71.47	57.96	34.02	-1.73	-83.81	-154.34
3540.3	92.8	92.5	89.1	74.02	81.04	83.52	83.13	81.86	75.43	63.16	44.86	13.71	-37.18	-117.59
3000.6	95.4	94.9	90.8	74.81	81.47	85.18	85.68	84.42	79.23	68.43	52.48	24.70	-17.71	-81.48
2614.2	97.3	96.7	92.3	72.77	80.62	85.47	87.79	86.45	82.09	71.86	59.76	33.04	-9.19	-61.40
2333.6	98.8	98.3	93.3	71.96	79.47	85.46	88.62	88.43	83.28	74.05	63.47	39.68	-4.05	-45.98
2131.3	99.9	99.4	93.8	70.47	78.33	85.03	88.58	89.54	84.69	75.18	66.84	43.13	11.56	-34.17
1968.1	99.6	98.6	93.1	70.26	77.16	84.33	87.82	88.85	84.94	76.38	66.80	46.37	16.99	-26.36
1831.2	99.5	97.3	91.8	69.02	76.36	83.18	86.13	87.44	84.80	76.47	68.45	48.86	20.38	-20.02
1734.1	97.8	96.6	90.9	69.21	75.71	82.88	85.15	86.22	83.65	76.71	69.23	49.80	23.17	-15.20
1655.1	96.8	95.6	89.4	69.61	77.80	80.73	83.37	84.53	82.07	76.41	69.38	50.35	24.96	-11.85
1598.5	95.7	94.3	88.5	73.07	74.78	80.30	83.20	83.16	80.44	75.27	69.14	49.73	25.23	-10.38
1553.0	95.1	93.4	87.7	69.54	74.52	79.14	81.68	82.30	79.76	74.16	65.65	50.19	26.13	-9.40
1523.1	95.0	93.5	87.3	69.21	74.52	79.30	81.66	81.78	79.48	74.02	65.24	50.17	26.49	-8.65
1505.7	94.0	93.0	86.6	68.23	73.81	78.31	80.91	80.79	78.71	74.24	65.09	50.31	27.03	-8.73
1500.0	94.5	92.9	86.2	67.96	73.54	78.15	80.10	80.51	78.44	73.96	65.68	50.50	27.39	-8.25
1505.7	94.2	92.6	85.8	67.93	73.24	77.93	79.91	79.96	78.62	74.26	65.26	50.31	27.03	-8.73
1523.1	94.1	92.6	85.3	67.18	72.64	77.41	79.34	79.62	78.21	73.91	64.83	50.56	27.05	-9.16
1552.9	93.6	91.8	85.0	66.69	71.90	76.67	78.51	78.33	77.42	73.56	64.36	49.84	26.12	-9.93
1596.1	93.6	91.9	84.8	66.78	71.12	75.70	78.06	78.05	76.73	73.31	64.01	49.77	26.26	-11.16
1655.1	93.3	91.5	84.6	65.70	70.58	74.92	77.28	76.95	76.41	73.06	63.79	47.67	22.38	-16.92

RUN NUMBER	= 467.000
AXIAL POSITION OF PRIMARY WRT, SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 922.000
SECONDARY TEMPERATURE (R)	= 548.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 1.000
VELOCITY RATIO	= .418
PRIMARY VELOCITY (FT/SEC)	= 1829.197
MASS FLOW RATIO	= .523
PRIMARY MASS FLOW (LB/SEC)	= .310
THRUST (LBS)	= 21.465
ENVIRONMENTAL TEMPERATURE (R)	= 535.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.760
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .112
INSTRUMENTATION NOISE FLOOR (DB)	= 70.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	1.399976E+01	141.5	THRUST	POWER LEVEL(DB)
			10000	100.4
500	3.515031E-02	115.5	20000	173.5
1000	3.015790E-01	124.8	40000	174.5
2000	1.794556E+00	132.5	80000	177.5
4000	4.267405E+00	136.3		
8000	5.061396E+00	137.0		
16000	2.482225E+00	133.9		
31500	1.055566E+00	130.2		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)		OCTAVE BAND SOUND PRESSURE LEVELS						OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	95.6	106.8	110.4	111.5	110.3	104.1	97.0	113.2
20.0	96.7	101.3	111.0	112.8	111.7	105.4	99.5	117.4
25.0	93.8	103.6	111.1	113.3	112.4	107.0	101.6	118.0
30.0	92.1	102.3	110.6	113.0	113.6	109.4	103.8	118.8
35.0	90.7	100.7	109.4	113.9	113.8	109.8	104.9	118.5
40.0	88.4	98.4	107.8	112.6	113.8	109.8	104.9	117.8
45.0	86.9	95.3	104.7	110.7	112.6	109.1	104.8	116.4
50.0	83.3	89.3	101.7	107.9	110.1	107.6	104.3	114.2
55.0	82.0	91.3	99.5	105.5	107.2	106.1	103.2	111.8
60.0	81.0	89.6	97.2	102.7	104.0	103.0	102.0	109.7
65.0	81.4	88.9	95.7	100.1	103.0	100.6	101.4	108.4
70.0	81.0	89.2	94.6	99.1	101.5	101.5	100.5	107.1
75.0	80.1	87.5	94.2	98.4	100.8	100.8	99.5	106.4
80.0	79.8	87.2	93.5	97.6	99.8	100.8	98.5	105.6
85.0	79.1	86.4	92.6	96.7	99.1	99.5	97.5	104.7
90.0	79.1	86.4	92.3	95.9	98.6	98.5	96.5	104.0
95.0	78.1	86.2	91.1	95.0	98.2	98.0	96.0	103.4
100.0	77.4	84.7	90.2	94.4	97.7	98.0	95.5	103.0
105.0	77.3	84.3	89.9	93.7	97.4	97.8	94.8	102.6
110.0	76.7	83.8	89.2	93.5	97.2	97.0	94.6	102.2
115.0	76.6	82.7	89.2	93.3	97.0	97.0	94.0	102.1

MODEL THRUST = 21.465 FULL SCALE THRUST = 25003.000

L0	PHASE	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS							
			16.0	31.5	63.0	125.0	250.0	500.0	1000.0	2000.0
0109.0	91.27	97.27	92.6	70.48	79.13	89.93	86.96	91.71	93.93	94.85
0185.9	90.11	95.31	74.2	72.30	81.66	89.79	90.06	88.32	80.89	70.37
0349.1	90.61	93.31	74.7	72.82	82.62	90.33	91.33	85.15	79.71	65.71
0608.6	102.91	97....	95.2	72.56	82.44	91.17	94.32	91.74	84.52	69.30
0815.9	103.41	97.8	95.9	73.49	82.19	91.27	95.65	95.76	86.27	83.08
2323.6	104.71	101.2	100.2	74.26	84.19	94.33	96.78	91.19	84.55	76.04
2721.3	104.81	99.8	95.5	73.2	80.42	90.26	92.81	91.43	85.15	78.15
1058.1	103.41	99.1	94.1	69.26	77.13	86.12	90.17	94.15	90.90	86.87
1031.9	102.11	98.5	94.2	69.22	76.97	86.19	89.97	91.07	87.12	83.88
1799.1	103.61	97.8	94.6	69.91	78.11	87.68	89.54	89.43	84.58	79.87
1655.1	10...	97.1	94.8	70.84	79.31	88.11	89.18	87.27	84.59	78.72
1598.1	98.41	96.4	94.0	69.19	78.36	87.11	89.13	87.03	83.98	78.61
1592.5	98.91	96.4	93.5	71.55	79.1...	88.42	89.73	87.08	83.63	77.95
1523.1	98.21	96.1	93.4	69.64	77.81	87.01	89.19	87.04	84.04	78.96
1666.9	97.41	96.1	93.5	69.70	77.34	87.15	89.36	87.07	84.31	79.15
1588.8	98.41	96.3	93.5	69.80	77.31	87.06	89.46	87.08	84.41	81.15
1585.9	98.31	96.3	93.6	69.79	77.49	87.03	89.44	87.21	84.48	81.15
1523.1	98.31	96.3	93.6	70.02	77.49	87.05	89.44	87.26	84.56	81.19
1592.9	98.41	96.4	93.6	70.02	77.49	87.05	89.44	87.26	84.56	81.19
1570.3	98.21	96.2	93.6	69.87	77.43	87.08	89.13	87.11	84.28	81.07
1659.1	98.71	96.61	94.1	69.66	78.13	88.13	89.14	87.43	84.27	81.07

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 468.000
PRIMARY TEMPERATURE (R)	= 4.100
SECONDARY TEMPERATURE (R)	= 917.000
PRIMARY PRESSURE RATIO	= 547.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 1.000
PRIMARY VELOCITY (FT/SEC)	= .574
MASS FLOW RATIO	= 1824.230
PRIMARY MASS FLOW (LB/SEC)	= .764
THRUST (LBS)	= .327
ENVIRONMENTAL TEMPERATURE (R)	= 26.624
ENVIRONMENTAL PRESSURE (IN.HG)	= 535.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.700
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 70.000
INSTRUMENTATION NOISE FLOOR (DB)	= .126
	= 71.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.79485E+01	142.5
500	5.53635E-02	117.4
1000	4.90420E-01	126.9
2000	2.74381E+00	134.4
4000	5.63593E+00	137.5
8000	5.56777E+00	137.5
16000	2.38851E+00	133.8
31500	1.06669E+00	130.3

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	168.3
20000	171.3
40000	174.3
80000	177.3

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.3	107.2	112.3	112.6	110.6	103.5	96.6	117.4
20.0	96.8	106.8	113.0	113.9	112.1	104.9	98.6	118.4
25.0	95.7	105.9	113.1	114.9	113.2	105.9	99.7	119.1
30.0	94.1	104.3	112.7	115.3	114.1	108.3	101.7	119.5
35.0	91.7	102.4	111.3	115.2	114.8	109.7	103.4	119.5
40.0	90.2	99.9	109.0	113.9	114.2	109.2	103.8	118.5
45.0	87.6	97.4	106.1	111.9	113.0	109.0	104.4	117.0
50.0	85.8	95.5	103.4	108.1	110.0	107.7	104.5	114.4
55.0	84.3	92.5	100.2	105.2	107.4	106.5	103.8	112.3
60.0	83.6	90.8	98.3	102.5	105.2	104.7	103.2	110.4
65.0	82.9	90.1	96.6	100.6	103.3	103.0	102.6	108.9
70.0	82.5	89.6	96.0	100.0	102.4	102.5	101.0	108.0
75.0	82.0	88.5	95.1	98.7	100.9	101.6	100.0	106.8
80.0	81.6	88.1	94.4	97.7	99.8	100.5	98.5	105.7
85.0	81.6	87.1	93.4	96.8	99.0	99.5	98.0	104.9
90.0	81.1	86.9	92.8	96.4	98.5	98.5	97.5	104.3
95.0	80.6	86.3	92.0	95.7	97.5	98.0	96.5	103.5
100.0	80.1	85.8	91.5	94.8	97.0	97.5	96.1	102.9
105.0	79.5	85.1	90.8	94.4	96.5	97.0	95.5	102.4
110.0	78.9	84.8	90.2	93.8	96.0	97.0	95.5	102.1
115.0	78.9	83.7	90.0	93.7	95.8	96.5	95.0	101.7

MODEL THRUST = 20.624 FULL SCALE THRUST = 20000.000

L.	P/DR.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 18.2	36.5	73.0	145.9	291.9	583.8	1169.3	2298.6	4560.7	9121.4	18242.8
3795.8	91.5(91.1)	90.9	72.33	81.21	86.18	86.23	83.33	73.89	61.35	45.46	16.59	-34.70	-118.49
4385.7	95.9(95.3)	96.4	73.23	83.22	89.41	90.06	87.55	78.59	67.98	55.23	32.65	-6.90	-71.03
3949.3	99.0(98.2)	97.6	73.96	84.23	91.38	92.97	90.72	81.96	72.29	61.39	42.55	9.97	-42.50
3000.8	101.7(100.8)	98.8	73.84	84.01	92.44	94.84	93.19	86.22	76.66	66.99	50.60	22.60	-22.22
2615.2	103.6(102.3)	100.0	72.58	83.39	92.21	95.98	95.14	89.00	80.18	71.37	56.69	31.90	-7.55
2333.4	104.2(102.6)	100.0	72.11	81.80	90.90	95.72	95.62	89.69	81.99	73.80	60.39	37.94	2.41
2121.3	104.2(102.3)	99.3	70.39	80.19	89.84	94.51	95.28	90.47	83.74	76.02	63.55	42.87	10.31
1958.1	102.9(100.5)	97.2	69.31	77.93	86.84	91.40	93.00	89.97	84.81	77.45	65.71	46.39	16.10
1831.9	101.7(99.0)	95.6	68.37	76.55	84.20	89.14	91.09	87.44	84.91	77.84	66.66	48.40	19.80
1732.1	100.6(97.5)	94.2	68.16	75.36	82.77	86.96	89.36	86.12	84.93	78.08	67.35	49.92	22.77
1655.1	99.9(96.4)	93.1	67.80	75.06	81.56	85.69	87.83	86.93	84.86	78.18	67.79	51.00	24.93
1596.3	99.3(96.0)	92.5	67.71	74.82	81.21	85.13	87.25	86.71	83.70	77.15	67.02	50.72	25.47
1552.9	98.5(95.2)	91.6	67.52	74.03	80.59	84.05	86.01	86.12	82.96	76.51	66.58	50.64	25.99
1523.1	97.6(94.3)	90.7	67.24	73.74	80.04	83.23	85.13	85.21	81.67	75.28	65.48	49.79	25.56
1505.7	96.9(93.5)	90.0	67.34	72.89	79.09	82.49	84.42	84.32	81.35	75.00	65.28	49.73	25.74
1500.0	96.3(92.8)	89.4	66.91	72.67	78.54	82.06	83.97	83.31	80.91	74.58	64.88	49.38	25.47
1505.7	95.8(92.0)	88.8	66.38	72.09	77.72	81.35	82.69	82.80	79.83	73.68	63.76	48.21	24.23
1523.1	94.7(91.4)	87.9	65.75	71.41	77.12	80.40	82.32	82.19	79.28	72.89	63.09	47.60	23.17
1552.9	93.9(90.6)	87.2	65.12	70.62	76.22	79.77	81.64	81.47	78.46	72.01	62.08	46.16	21.40
1596.3	93.5(90.2)	86.6	64.18	70.05	75.48	78.92	80.86	81.20	78.14	71.61	61.48	45.18	19.93
1655.1	92.6(89.4)	85.9	63.87	69.67	74.88	78.48	80.08	80.46	77.27	70.59	60.20	43.41	17.34

M. NUMBER	= 469.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 920.000
SECONDARY TEMPERATURE (R)	= 555.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .671
PRIMARY VELOCITY (FT/SEC)	= 1827.212
MASS FLOW RATIO	= .937
PRIMARY MASS FLOW (LB/SEC)	= .328
THRUST (LBS)	= 25.985
ENVIRONMENTAL TEMPERATURE (R)	= 541.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .199
INSTRUMENTATION NOISE FLOOR (DB)	= 75.578

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.842177E+01	145.6
500	4.787822E-02	116.8
1000	4.296046E-01	126.3
2000	2.761696E+00	134.4
4000	8.414656E+00	139.3
8000	1.346616E+01	141.3
16000	7.858246E+00	139.0
31500	3.443596E+00	135.4

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	171.5
20000	174.5
40000	177.5
80000	180.5

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	97.4	106.3	112.1	114.7	116.0	113.9	109.7	120.9
20.0	96.6	105.8	112.8	115.3	117.0	115.5	111.1	121.9
25.0	95.3	105.2	112.9	116.4	118.5	116.5	112.0	123.0
30.0	93.[illegible]	104.1	112.9	117.0	118.8	116.9	113.2	123.4
35.0	92.0	102.3	111.7	117.4	118.9	115.9	111.7	123.1
40.0	89.5	99.5	109.4	115.6	118.0	114.0	109.9	121.6
45.0	87.2	97.5	106.5	114.7	116.5	112.7	109.2	120.2
50.0	85.1	94.7	103.3	109.6	112.7	111.0	106.3	116.9
55.0	83.5	92.1	100.6	106.5	109.8	109.0	106.4	114.4
60.0	82.3	90.0	98.1	103.6	106.9	106.4	104.2	111.7
65.0	81.6	89.1	96.1	101.1	104.3	104.4	103.2	109.7
70.0	80.8	88.5	95.3	99.9	102.7	102.8	102.0	108.3
75.0	80.8	87.7	94.0	98.5	101.3	101.8	100.5	107.0
80.0	80.6	86.9	93.8	98.0	100.6	101.0	99.5	106.2
85.0	80.0	86.9	93.3	97.1	99.5	100.0	98.5	105.3
90.0	80.0	86.5	92.9	96.7	99.1	99.5	97.9	104.9
95.0	80.0	85.6	91.9	95.8	99.0	98.6	97.0	104.1
100.0	79.1	85.6	91.3	95.2	99.1	98.6	96.5	104.0
105.0	79.1	85.1	90.4	94.6	97.8	98.0	96.1	103.2
110.0	78.1	84.0	90.4	94.1	97.6	97.5	95.4	102.7
115.0	78.1	83.4	90.1	94.1	98.0	97.0	95.1	102.6

POWER THRUST = 25.985 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 18.0	36.0	72.1	144.2	288.4	576.7	1135.4	2270.9	4505.7	9011.4	18022.7
3795.8	96.9(96.2)	93.6	71.54	80.63	86.09	88.62	88.84	84.47	74.62	58.91	30.33	-20.68	-103.61
4385.7	101.2(100.2)	97.2	72.97	82.35	89.33	91.57	92.64	89.33	80.70	64.07	45.72	6.54	-57.10
3949.3	104.8(103.5)	100.3	73.68	83.61	91.28	94.58	96.14	92.74	84.75	73.66	55.30	23.02	-29.06
3000.0	107.1(105.5)	102.3	73.13	84.00	92.75	96.65	98.00	94.95	88.28	78.70	62.46	34.21	-9.77
2615.2	108.3(106.5)	103.4	73.11	83.36	92.70	98.24	99.43	95.39	89.58	79.85	65.31	40.73	1.57
2333.4	108.1(106.2)	103.0	71.60	81.64	91.37	97.49	99.55	94.81	88.30	80.18	66.88	44.63	9.36
2121.3	107.8(105.7)	102.5	70.12	80.60	89.30	97.60	99.92	94.25	88.69	81.03	68.67	48.17	15.84
1958.1	105.8(103.2)	99.8	68.69	78.23	86.84	93.81	95.83	93.39	88.79	81.49	69.85	50.70	20.42
1831.2	104.0(101.2)	97.8	67.69	76.25	84.71	90.52	93.55	92.00	87.63	80.62	69.53	51.43	23.11
1732.1	102.1(99.0)	95.6	66.93	74.68	82.76	88.13	91.13	89.94	86.14	79.34	68.70	51.41	24.46
1655.1	100.5(97.4)	94.0	66.63	74.16	81.16	86.01	89.03	88.38	85.61	78.98	68.68	52.02	26.14
1596.3	99.2(96.4)	92.9	66.19	73.91	80.43	85.14	87.68	87.19	84.83	78.33	68.28	52.11	27.04
1552.9	98.2(95.5)	91.9	66.43	73.33	79.53	83.99	86.51	86.42	83.62	77.22	67.36	51.55	27.08
1523.1	99.3(94.9)	91.3	66.59	72.70	79.49	83.69	86.02	85.77	82.82	76.47	66.75	51.19	27.13
1505.7	97.4(94.0)	90.5	65.87	72.80	79.16	82.89	85.04	84.95	81.96	75.66	66.01	50.59	26.77
1500.0	97.0(93.6)	90.1	65.90	72.61	78.73	82.50	84.72	84.64	81.66	75.17	65.55	50.18	26.44
1505.7	96.1(92.7)	89.4	65.87	71.66	77.71	81.47	84.46	83.69	80.65	74.14	64.50	49.07	25.26
1523.1	95.9(92.5)	89.1	66.65	71.36	77.06	80.81	84.58	83.38	79.89	73.55	63.83	48.26	24.20
1552.9	94.9(91.6)	88.1	66.68	70.78	76.01	80.11	83.10	82.63	79.23	72.83	62.97	47.16	23.69
1596.3	94.0(90.8)	87.4	63.62	69.37	75.77	79.31	82.57	81.85	78.21	71.71	61.66	45.49	23.62
1655.1	93.4(90.3)	87.0	63.11	68.66	75.14	78.99	82.67	83.99	77.55	70.92	60.62	43.96	14.34

RUN NUMBER	= 470.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 921.000
SECONDARY TEMPERATURE (R)	= 550.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 2.007
VELOCITY RATIO	= .575
PRIMARY VELOCITY (FT/SEC)	= 1828.205
MASS FLOW RATIO	= 1.525
PRIMARY MASS FLOW (LB/SEC)	= .323
THRUST (LBS)	= 34.447
ENVIRONMENTAL TEMPERATURE (F)	= 541.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .252
INSTRUMENTATION NOISE FLOOR (DB)	= 77.607

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.10029E+01	147.1
500	6.52064E-02	108.1
1000	6.93716E-01	128.4
2000	4.61737E+00	136.6
4000	1.14879E+01	140.6
8000	1.69791E+01	142.3
16000	1.16434E+01	140.7
31500	5.52534E+00	137.4

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	171.7
20000	174.7
40000	177.7
80000	180.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	98.9	107.9	113.4	114.8	115.1	112.7	109.4	120.7
20.0	97.7	108.7	115.1	117.0	118.0	115.9	112.4	123.2
25.0	96.8	107.5	115.7	118.2	119.7	118.0	114.0	124.7
30.0	94.9	106.0	115.2	118.9	120.6	118.9	114.6	125.2
35.0	92.7	104.1	113.8	118.5	119.9	118.0	114.3	124.6
40.0	90.7	102.0	112.1	117.5	118.9	116.1	112.1	123.2
45.0	88.0	99.0	108.4	114.6	117.0	114.7	111.4	121.1
50.0	85.5	96.0	105.3	111.2	114.1	112.9	110.0	118.6
55.0	83.6	92.9	101.7	106.8	109.8	109.6	108.1	115.0
60.0	83.6	91.2	99.7	104.5	107.8	108.3	107.1	113.4
65.0	82.9	90.1	97.7	102.4	105.5	106.5	105.5	111.5
70.0	82.0	90.1	96.3	101.3	104.3	105.2	104.5	110.3
75.0	82.0	89.0	96.4	100.6	102.9	104.1	103.0	109.2
80.0	82.5	89.0	95.6	99.7	102.2	103.5	102.5	108.5
85.0	81.1	88.5	95.1	98.9	101.3	102.5	101.5	107.6
90.0	81.1	88.1	94.4	98.0	100.4	102.1	100.5	106.8
95.0	81.1	87.6	93.9	97.7	100.7	101.5	100.0	106.5
100.0	80.7	87.1	93.1	97.0	100.4	101.0	99.6	106.1
105.0	80.1	86.6	92.5	96.1	99.4	100.4	99.6	105.5
110.0	78.9	86.0	92.5	96.1	99.4	100.4	99.0	105.3
115.0	78.9	84.8	91.1	95.3	99.4	100.0	99.0	105.0

MODEL THRUST = 34.447 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 20.8	41.5	83.0	166.0	332.0	664.0	1307.3	2614.6	5187.6	10375.3	20750.5
9799.8	99.3(99.8)	92.2	71.88	80.77	86.19	87.17	86.43	81.22	71.28	53.47	21.24	-35.32	-126.19
4385.7	101.3(100.5)	97.2	73.08	84.05	90.36	91.93	92.18	87.95	79.38	65.16	40.04	-3.48	-72.98
3549.3	105.3(104.2)	100.8	74.03	84.71	92.78	95.11	95.94	92.50	84.46	72.38	51.48	15.68	-41.13
3000.0	107.8(106.4)	102.7	73.55	84.68	93.74	97.26	98.25	95.31	87.50	76.83	58.70	27.98	-20.51
2615.7	109.8(107.2)	103.4	72.50	83.94	93.54	98.13	99.06	95.83	89.18	79.49	63.30	36.14	-6.51
2333.3	109.6(108.9)	103.2	71.49	82.81	92.87	98.09	99.08	95.14	88.50	79.53	64.76	40.20	1.82
2121.3	107.8(109.9)	101.7	69.71	80.70	90.85	96.43	98.06	94.73	89.01	80.59	66.89	44.20	9.13
1950.1	106.3(104.0)	100.0	67.91	78.32	87.64	93.34	95.90	93.75	88.68	80.68	67.80	46.71	15.02
1831.2	103.5(100.9)	96.9	66.55	75.83	84.59	89.61	92.27	91.19	87.57	79.80	67.65	47.73	16.97
1732.1	102.6(99.8)	95.7	67.04	74.57	83.03	87.81	90.73	90.36	87.24	79.82	68.08	49.08	19.81
1655.1	101.3(99.4)	94.2	66.68	73.94	81.46	86.07	88.83	89.10	86.19	78.95	67.61	49.31	21.22
1590.3	100.7(97.6)	93.4	66.16	74.26	80.48	85.30	87.98	88.12	85.58	78.50	67.44	49.69	22.49
1552.9	99.8(98.7)	92.8	65.40	73.36	80.73	84.85	86.87	87.30	84.47	77.50	66.66	49.32	22.77
1523.1	99.4(96.2)	92.1	66.57	73.41	80.07	84.09	86.32	86.90	84.16	77.26	66.58	49.51	23.41
1505.7	99.4(95.4)	91.3	65.75	71.18	79.73	83.38	85.53	86.03	83.27	76.42	65.82	48.91	23.09
1500.0	97.8(94.8)	90.6	65.79	72.77	79.05	82.53	84.67	85.29	82.33	75.49	64.93	48.07	22.32
1505.7	97.4(94.4)	90.3	65.75	72.27	78.55	82.18	84.31	85.05	81.75	74.90	64.30	47.39	21.56
1523.1	97.7(93.7)	89.7	64.63	71.67	77.97	81.41	83.55	84.40	81.24	74.34	63.66	46.56	20.69
1552.9	98.2(93.8)	89.9	64.46	70.79	76.81	80.33	83.10	83.84	81.01	73.84	63.21	45.86	19.31
1598.3	95.5(92.6)	88.5	63.06	70.14	76.56	80.09	83.14	83.16	81.09	73.01	61.96	44.21	17.01
1695.1	94.9(91.9)	87.8	62.75	69.62	74.91	78.38	82.81	82.55	79.68	72.43	61.08	42.79	14.70

RUN NUMBER	= 471.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 921.000
SECONDARY TEMPERATURE (R)	= 550.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 4.856
VELOCITY RATIO	= .419
PRIMARY VELOCITY (FT/SEC)	= 1828.205
MASS FLOW RATIO	= 2.663
PRIMARY MASS FLOW (LB/SEC)	= .310
THRUST (LBS)	= 37.258
ENVIRONMENTAL TEMPERATURE (R)	= 540.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .100
INSTRUMENTATION NOISE FLOOR (DB)	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.10140E+01	140.4
500	6.22248E+02	117.9
1000	4.17227E-01	126.2
2000	1.74374E+00	132.4
4000	3.28000E+00	135.2
8000	3.20789E+00	135.1
16000	1.53500E+00	131.9
31500	7.67952E-01	128.9

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	164.7
20000	167.7
40000	170.7
80000	173.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.3	105.6	108.6	106.8	101.6	100.5	95.9	112.8
20.0	97.7	105.8	110.0	108.5	103.3	98.8	95.5	113.9
25.0	96.5	105.3	111.0	110.6	106.9	100.6	97.4	115.4
30.0	95.0	104.1	111.1	112.5	109.3	102.1	97.2	116.5
35.0	93.0	102.1	109.8	113.4	111.5	104.5	98.1	117.0
40.0	90.4	99.6	107.3	112.5	112.8	106.9	100.1	116.9
45.0	87.8	96.4	104.6	110.2	111.7	107.4	102.0	115.5
50.0	85.4	93.6	100.9	106.6	109.2	106.6	102.3	113.2
55.0	83.8	91.3	98.3	103.6	106.3	105.1	101.9	110.8
60.0	82.6	90.2	96.9	101.4	104.1	103.6	102.2	109.3
65.0	82.6	89.3	95.8	99.9	102.1	102.1	101.5	107.9
70.0	82.0	88.7	95.3	98.8	101.3	101.6	100.5	107.1
75.0	82.6	88.8	94.5	98.2	100.6	101.0	99.5	106.4
80.0	82.3	88.5	94.1	97.5	99.6	100.0	99.0	105.6
85.0	82.0	87.8	93.6	96.9	99.5	99.5	98.0	105.0
90.0	81.2	87.4	93.0	96.5	99.0	99.0	98.0	104.7
95.0	81.2	87.0	92.6	96.1	98.5	98.5	97.5	104.2
100.0	80.4	86.1	91.8	95.4	98.0	98.5	97.0	103.8
105.0	79.1	85.9	91.8	95.1	97.5	98.0	96.5	103.3
110.0	79.1	85.1	90.9	94.5	97.5	98.0	96.0	103.1
115.0	79.1	84.6	90.5	94.1	97.0	97.5	95.5	102.6

MODEL THRUST = 37.258 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	21.6	OCTAVE BAND SOUND PRESSURE LEVELS 43.2	86.3	172.6	345.3	690.6	1359.6	2719.2	5395.1	10790.3	21580.6
3795.8	86.81 (84.41)	88.8	70.93	78.10	81.03	78.79	72.53	68.39	56.87	38.42	5.10	-53.13	-146.21
4385.7	89.1 (88.6)	88.5	72.70	80.82	84.86	83.05	77.09	70.28	61.75	47.06	21.12	-23.67	-94.84
3549.3	93.4 (92.6)	91.8	73.33	82.13	87.80	87.13	82.76	74.63	67.13	54.67	33.10	-3.72	-61.89
3000.0	96.5 (95.7)	94.4	73.29	82.39	89.35	90.57	86.72	78.00	69.49	58.50	39.80	8.22	-41.41
2615.2	99.2 (98.3)	96.1	72.49	81.56	89.24	92.64	90.22	81.86	72.41	62.44	45.76	17.84	-25.81
2333.4	101.2 (100.1)	96.9	70.88	80.04	87.73	92.82	92.61	85.53	75.91	66.68	51.48	26.24	-13.03
2121.3	101.6 (100.0)	96.2	69.13	77.75	85.89	91.35	92.41	87.04	79.04	70.38	56.29	33.07	-2.90
1958.1	100.3 (98.5)	94.4	67.38	75.59	82.90	88.45	90.67	87.04	80.35	72.13	58.89	37.23	3.79
1831.2	98.9 (96.7)	92.5	66.43	73.87	80.45	85.99	88.33	86.26	80.84	72.96	60.38	39.93	8.47
1732.1	98.1 (95.5)	91.4	65.71	73.28	79.97	84.28	86.65	85.34	81.81	74.19	62.13	42.63	12.71
1655.1	97.3 (94.5)	90.3	66.11	72.78	79.19	83.23	85.11	84.21	81.65	74.24	62.58	43.81	15.08
1596.3	96.9 (94.0)	89.9	65.75	72.44	79.07	82.45	84.63	84.07	81.11	73.85	62.50	44.29	16.48
1552.9	96.4 (93.5)	89.5	66.66	72.84	78.48	82.11	84.14	83.76	80.41	73.27	62.15	44.35	17.21
1523.1	96.0 (93.1)	88.9	66.50	72.67	78.25	81.60	83.60	82.96	80.16	73.10	62.13	44.62	17.94
1505.7	95.4 (92.5)	88.5	66.26	72.05	77.82	81.01	83.39	82.57	79.25	72.23	61.36	44.01	17.61
1500.0	95.1 (92.2)	88.1	65.57	71.69	77.29	80.70	82.88	82.14	79.29	72.29	61.45	44.15	17.84
1505.7	94.6 (91.7)	87.6	65.54	71.26	76.91	80.30	82.34	81.60	78.77	71.76	60.88	43.54	17.13
1523.1	94.0 (91.1)	87.1	64.45	70.29	75.42	79.48	81.77	81.49	78.14	71.08	60.11	42.60	15.92
1552.9	93.3 (90.5)	86.5	63.14	69.09	75.75	78.97	81.09	80.77	77.38	70.26	59.11	41.32	14.19
1596.3	92.7 (90.0)	85.9	62.90	68.91	74.67	78.11	80.86	80.49	76.60	69.34	57.99	39.78	11.97
1655.1	91.9 (89.1)	85.1	62.58	68.07	73.90	77.41	79.98	79.65	75.69	68.28	56.62	37.85	9.12

RUN NUMBER	= 472.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 4.100
PRIMARY TEMPERATURE (R)	= 910.000
SECONDARY TEMPERATURE (R)	= 550.000
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= 4.856
VELOCITY RATIO	= .576
PRIMARY VELOCITY (FT/SEC)	= 1825.225
MASS FLOW RATIO	= 1.847
PRIMARY MASS FLOW (LB/SEC)	= .328
THRUST (LBS)	= 59.924
ENVIRONMENTAL TEMPERATURE (R)	= 539.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.600
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .100
INSTRUMENTATION NOISE FLOOR (DB)	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.39640E+01	141.5
500	1.45183E-01	121.6
1000	8.30242E-01	129.2
2000	2.68225E+00	134.3
4000	3.89112E+00	135.9
8000	3.41057E+00	135.3
16000	1.82728E+00	132.6
31500	1.17732E+00	130.7

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	163.7
20000	166.7
40000	169.7
80000	172.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	102.5	108.4	109.4	105.8	102.7	101.4	96.2	113.9
20.0	101.2	109.0	111.3	108.1	104.2	101.5	97.2	115.3
25.0	100.2	108.4	112.2	109.9	105.7	101.2	97.5	116.0
30.0	98.5	106.8	112.1	111.4	106.9	101.7	98.1	116.3
35.0	96.1	104.9	111.7	113.1	109.0	103.0	99.1	116.9
40.0	93.8	102.7	109.9	113.2	111.0	104.4	100.0	116.9
45.0	91.3	99.7	107.1	111.3	111.5	106.2	101.7	116.0
50.0	88.5	97.0	104.2	108.6	110.4	106.9	103.5	114.5
55.0	87.6	68.5	101.6	105.8	108.0	106.5	104.6	112.8
60.0	86.7	93.3	100.1	104.3	106.1	105.3	104.5	111.5
65.0	87.1	93.6	99.7	103.5	105.1	104.5	103.5	110.7
70.0	86.7	92.8	98.5	102.2	104.2	103.5	102.5	109.7
75.0	86.7	93.0	98.1	101.8	103.6	103.0	102.0	109.2
80.0	85.8	92.1	97.8	100.8	102.8	102.0	101.0	108.3
85.0	85.6	91.6	96.9	100.2	102.0	101.5	100.5	107.7
90.0	84.9	90.9	96.5	100.0	101.5	101.0	100.0	107.2
95.0	84.6	90.3	96.2	99.6	101.0	100.5	99.5	106.8
100.0	84.1	90.2	95.1	99.0	101.0	100.0	99.0	106.3
105.0	83.5	89.6	95.1	98.9	100.5	100.0	99.0	106.2
110.0	82.9	89.1	94.4	98.8	100.5	99.5	98.5	105.8
115.0	82.6	88.3	94.6	98.6	100.0	99.5	98.5	105.7

MODEL THRUST = 59.924 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 27.4	54.7	109.5	218.9	437.9	875.8	1724.2	3448.5	6842.2	13684.4	27368.7
9795.8	83.8(83.6)	83.8	73.01	78.83	79.67	75.49	70.80	65.44	51.09	28.30	-12.24	-81.33	-188.29
4385.7	88.6(88.2)	87.7	74.17	81.87	84.05	80.39	75.32	69.50	58.28	40.31	8.90	-44.11	-125.78
3549.3	92.1(91.6)	90.3	75.02	83.10	86.85	84.23	79.00	72.01	62.68	47.56	21.57	-21.90	-88.57
3000.8	94.7(94.1)	92.0	74.70	82.99	88.18	87.22	81.91	74.55	66.28	53.04	30.61	-6.60	-63.41
2615.2	97.4(96.6)	93.9	73.58	82.33	89.05	90.19	85.32	77.49	69.46	57.53	37.59	4.77	-45.14
2333.6	98.8(98.0)	94.8	72.25	81.67	88.25	91.30	88.50	80.21	72.13	61.17	43.05	13.44	-31.42
2121.3	99.8(98.7)	95.5	70.52	78.89	86.29	90.27	89.90	83.13	75.19	64.95	48.21	21.02	-20.03
1958.1	99.9(98.5)	93.5	68.44	76.91	84.03	88.29	89.51	84.65	79.17	68.49	52.80	27.47	-10.65
1831.2	99.0(97.1)	92.1	68.16	49.00	82.07	86.11	87.75	85.03	80.15	70.90	56.04	32.16	-3.69
1732.1	98.8(96.8)	91.2	67.89	74.29	81.00	85.05	86.43	84.35	80.82	71.90	57.68	34.93	.86
1655.1	98.5(96.5)	90.9	68.48	74.78	81.09	84.65	85.86	84.06	80.45	71.80	58.08	36.21	3.52
1596.9	97.9(95.8)	90.2	68.40	74.49	80.21	83.74	84.23	83.43	79.89	71.44	58.10	36.90	5.26
1552.9	97.8(95.7)	90.0	68.64	74.94	80.01	83.68	84.03	83.25	79.79	71.49	58.43	37.72	6.47
1523.1	97.1(95.0)	89.3	67.96	74.24	79.92	82.68	84.35	82.44	79.00	70.80	57.93	37.56	7.24
1505.7	96.7(94.5)	88.8	67.83	73.87	79.11	82.27	83.63	82.06	78.60	70.53	57.78	37.61	7.60
1500.0	96.3(94.1)	88.4	67.15	73.14	78.64	82.07	83.13	81.57	78.23	70.11	57.39	37.28	7.38
1505.7	95.7(93.5)	87.9	66.86	72.57	78.34	81.63	82.62	81.08	77.65	69.51	56.76	36.59	6.59
1523.1	95.1(92.9)	87.4	66.24	72.33	77.22	80.95	82.51	80.42	77.03	68.83	55.96	35.59	5.27
1552.9	94.7(92.6)	87.0	65.51	71.57	76.96	80.87	81.83	80.22	76.78	68.60	55.42	34.71	3.45
1596.9	94.0(91.9)	86.4	64.67	70.44	76.45	80.26	81.57	79.62	75.92	67.67	54.12	32.92	1.29
1655.1	93.4(91.3)	85.9	64.04	69.70	75.93	79.92	80.70	79.04	75.44	66.79	53.07	31.20	-1.49

RUN NUMBER	
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 473.000
PRIMARY TEMPERATURE (R)	= 4.100
SECONDARY TEMPERATURE (R)	= 921.000
PRIMARY PRESSURE RATIO	= 550.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 9.788
PRIMARY VELOCITY (FT/SEC)	= .419
MASS FLOW RATIO	= 1828.205
PRIMARY MASS FLOW (LB/SEC)	= 4.872
THRUST (LBS)	= .328
ENVIRONMENTAL TEMPERATURE (R)	= 56.412
ENVIRONMENTAL PRESSURE (IN.HG)	= 538.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.600
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 70.000
INSTRUMENTATION NOISE FLOOR (DB)	= .089
	= 68.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.20242E+01	140.8
500	1.19115E-01	120.8
1000	6.89187E-01	128.4
2000	2.34984E+00	133.7
4000	3.33668E+00	135.2
8000	2.96487E+00	134.7
16000	1.74854E+00	132.4
31500	6.15962E-01	129.1

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	163.3
20000	166.3
40000	169.3
80000	172.3

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	101.2	107.3	108.6	105.4	102.9	102.2	96.6	113.3
20.0	100.7	107.8	110.1	106.9	103.6	102.5	97.8	114.3
25.0	98.8	107.4	111.6	108.5	103.4	101.4	97.4	115.1
30.0	97.3	105.7	111.9	111.1	108.8	103.5	99.0	116.4
35.0	95.7	103.9	110.8	111.9	107.6	103.2	99.4	115.9
40.0	93.3	102.0	109.1	111.8	110.1	105.1	100.7	116.0
45.0	91.4	99.7	107.3	111.0	110.9	106.7	102.4	115.8
50.0	89.3	97.4	104.6	108.5	109.7	107.0	103.0	114.3
55.0	87.7	95.9	102.8	105.6	108.3	106.4	102.6	112.8
60.0	86.6	93.9	100.3	108.2	106.0	105.5	102.5	112.4
65.0	86.8	92.9	98.7	102.2	105.2	104.5	102.0	110.1
70.0	85.5	92.2	97.9	101.5	104.4	103.5	101.0	109.3
75.0	85.9	91.6	96.8	99.9	102.6	102.5	100.0	107.9
80.0	84.8	90.7	96.1	99.3	101.6	101.5	99.0	107.0
85.0	84.4	89.9	95.4	98.5	100.5	100.5	98.0	106.1
90.0	83.9	89.6	94.7	97.7	100.0	99.5	97.0	105.3
95.0	83.4	88.8	94.2	97.5	99.5	98.5	96.5	104.7
100.0	82.8	88.3	94.0	97.0	98.5	98.0	95.5	104.0
105.0	82.0	87.8	93.3	96.3	98.5	97.5	95.0	103.6
110.0	81.3	87.1	92.2	95.3	98.0	97.0	94.5	103.0
115.0	81.0	86.6	92.6	95.8	97.5	96.5	94.0	102.7

MODEL THRUST = 56.412 FULL SCALE THRUST = 20000.000

L.	PNDB.		OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 26.6	53.1	106.2	212.4	424.9	849.7	1672.9	3345.9	6638.7	13277.5	26554.7
5799.4	83.0(	83.4)	83.3	71.93	78.05	79.19	75.43	71.34	66.72	52.29	30.10	-9.46	-77.10	-182.25
4385.7	88.0(	87.6)	86.9	73.92	80.96	83.09	79.52	75.04	70.95	59.56	42.04	11.37	-40.55	-120.85
3549.3	91.2(	90.8)	89.7	73.85	82.45	86.53	83.07	77.08	72.68	63.23	48.48	23.09	-19.50	-85.06
3000.0	95.2(	94.5)	92.3	73.76	82.22	88.26	87.25	84.09	76.83	67.72	54.79	32.86	-3.60	-59.48
2615.2	96.7(	95.9)	93.1	73.38	81.58	89.35	89.29	84.24	78.10	70.34	58.68	39.18	7.02	-42.08
2333.4	98.5(	97.5)	94.1	72.04	80.64	87.70	90.18	87.91	81.32	73.35	62.63	44.91	15.88	-28.25
2121.1	99.9(	98.7)	94.5	70.91	79.16	86.69	90.23	89.58	83.96	76.37	66.34	49.96	23.36	-17.09
1958.1	99.8(	98.3)	93.6	69.48	77.57	84.72	88.41	89.09	85.15	78.16	68.67	53.32	28.48	-9.03
1831.2	99.3(	97.6)	92.6	68.45	76.63	83.47	86.20	88.37	85.21	78.65	69.58	55.03	31.61	-3.67
1732.1	98.8(	97.0)	92.8	67.91	75.20	81.52	89.26	86.61	84.92	79.29	70.56	56.63	34.31	.78
1655.1	98.0(	95.9)	90.7	68.49	74.54	80.31	83.43	86.21	84.41	79.38	70.90	57.46	36.00	3.83
1596.3	97.5(	95.4)	90.2	67.46	74.17	79.96	83.24	85.73	83.78	78.81	70.52	57.45	36.65	5.51
1552.9	96.4(	94.3)	89.1	68.11	73.78	78.35	81.92	84.23	83.06	78.17	73.03	57.24	36.92	6.54
1523.1	95.7(	93.5)	88.4	67.23	73.04	78.43	81.45	83.37	82.26	77.45	69.41	56.80	36.81	6.97
1506.7	94.9(	92.7)	87.5	66.87	72.38	77.85	80.81	82.39	81.40	76.59	68.61	56.11	36.32	6.78
1500.0	94.1(	91.9)	86.8	66.42	72.15	77.15	80.03	81.95	80.39	75.60	67.63	55.17	35.44	6.00
1505.7	93.5(	91.3)	86.2	65.88	71.26	76.68	79.77	81.42	79.37	75.09	67.09	54.59	34.80	5.26
1523.1	92.5(	90.4)	85.5	65.23	70.70	76.31	79.19	80.27	78.78	73.90	65.85	53.24	33.26	3.41
1552.9	91.9(	89.9)	84.9	64.18	73.04	75.47	78.31	80.09	78.08	73.20	65.06	52.26	31.04	1.57
1596.9	91.0(	89.0)	83.9	63.30	69.11	74.16	77.07	79.35	77.27	72.37	64.09	51.01	30.21	-.93
1655.1	90.3(	88.3)	83.4	62.64	68.23	74.18	77.26	79.51	76.42	71.40	62.92	49.68	28.02	-4.15

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 474.000
PRIMARY TEMPERATURE (R)	= 4.100
SECONDARY TEMPERATURE (R)	= 921.000
PRIMARY PRESSURE RATIO	= 550.000
AREA RATIO	= 3.500
VELOCITY RATIO	= 9.788
PRIMARY VELOCITY (FT/SEC)	= .575
MASS FLOW RATIO	= 1028.205
PRIMARY MASS FLOW (LB/SEC)	= 7.759
THRUST (LBS)	= .325
ENVIRONMENTAL TEMPERATURE (R)	= 100.719
ENVIRONMENTAL PRESSURE (IN.HG)	= 533.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.600
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 70.000
INSTRUMENTATION NOISE FLOOR (DB)	= .100
	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.986819E+01	142.9
500	4.273508E-01	126.3
1000	1.933133E+00	132.9
2000	4.557777E+00	136.6
4000	4.829446E+00	136.8
8000	4.008386E+00	136.0
16000	2.524746E+00	134.0
31500	1.380886E+00	131.4

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	162.9
20000	165.9
40000	168.9
80000	171.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	106.7	111.8	110.6	107.3	104.7	101.5	96.3	116.2
20.0	106.0	111.7	111.8	108.1	104.5	100.9	96.0	116.5
25.0	104.3	111.1	112.4	108.3	104.8	102.1	98.0	116.5
30.0	103.0	110.3	113.5	110.5	107.5	104.3	100.3	117.5
35.0	101.2	108.5	113.4	111.8	108.0	105.0	101.6	117.5
40.0	98.9	106.9	112.6	112.5	108.8	105.3	101.5	117.3
45.0	96.6	104.5	110.6	112.2	110.2	105.8	101.7	116.7
50.0	94.7	102.4	108.8	111.3	110.1	106.1	102.3	115.9
55.0	93.1	100.2	106.9	109.3	109.1	106.5	103.5	114.7
60.0	92.9	99.4	105.3	107.7	108.1	106.2	103.6	113.7
65.0	92.3	98.3	104.0	106.5	107.4	105.9	104.2	112.9
70.0	92.0	97.9	103.0	105.7	107.0	105.5	104.0	112.4
75.0	91.5	96.6	101.8	104.3	105.5	105.0	103.5	111.4
80.0	90.8	96.4	101.0	103.8	105.0	104.5	102.5	110.8
85.0	89.8	95.3	100.5	103.1	104.5	104.0	102.0	110.2
90.0	89.3	94.8	99.5	101.8	104.0	103.5	101.0	109.4
95.0	89.4	94.3	99.2	101.8	103.5	103.0	101.0	109.1
100.0	88.3	93.8	98.8	101.5	103.5	103.0	100.5	108.9
105.0	87.4	93.4	98.7	101.6	103.5	103.0	100.0	108.9
110.0	86.7	92.9	98.2	101.2	103.5	102.5	100.0	108.6
115.0	86.3	92.0	98.0	101.2	103.0	102.5	99.5	108.3

MODEL THRUST = 100.719 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
			35.5	71.0	141.9	283.9	567.7	1135.4	2235.4	4470.8	8870.5	17741.1	35482.2
8795.0	93.9 (83.4)	83.8	74.98	79.98	78.49	74.35	69.48	60.54	43.12	14.53	-35.27	-117.58	-240.35
4385.7	87.2 (87.1)	86.6	76.69	82.30	82.15	77.82	72.49	64.66	50.43	28.07	-10.35	-73.35	-167.00
3549.3	98.0 (89.7)	88.5	76.81	83.55	84.65	80.05	75.13	69.01	57.33	38.66	7.00	-44.56	-120.92
3000.0	93.6 (93.2)	90.8	77.02	84.20	87.28	83.84	79.69	73.59	63.17	46.92	19.69	-24.35	-89.36
2615.2	95.7 (95.2)	92.0	76.33	83.67	88.37	86.45	81.59	76.07	67.10	52.55	28.43	-10.35	-67.40
2333.6	97.1 (96.5)	92.8	75.03	83.08	88.64	88.17	83.60	77.75	69.07	55.77	33.92	-1.00	-52.24
2121.3	97.9 (97.2)	92.9	73.60	81.46	87.69	88.78	85.86	79.49	70.87	58.50	38.37	6.35	-40.50
1954.1	98.1 (97.3)	92.7	72.36	80.02	86.34	88.54	86.61	80.73	72.69	61.04	42.23	12.44	-31.03
1831.2	97.9 (96.9)	91.9	71.36	78.46	85.02	87.18	86.27	81.87	74.95	63.87	46.08	18.03	-22.82
1732.1	97.8 (96.6)	91.2	71.65	78.09	83.92	86.07	85.86	82.24	75.90	65.25	48.27	21.57	-17.23
1655.1	97.9 (96.6)	90.8	71.43	77.38	83.08	85.26	85.52	82.42	77.19	66.88	50.52	24.87	-12.34
1596.3	98.0 (96.6)	90.6	71.42	77.35	82.36	84.79	85.51	82.44	77.54	67.49	51.60	26.76	-9.23
1552.9	97.6 (96.2)	89.7	71.21	76.33	81.53	83.72	84.28	82.25	77.47	67.61	52.07	27.82	-7.28
1523.1	97.0 (95.6)	89.3	70.65	76.22	80.76	83.14	83.96	81.96	76.71	66.98	51.68	27.85	-6.64
1505.7	96.7 (95.2)	88.8	69.82	75.28	80.39	82.79	83.56	81.60	76.42	66.77	51.61	28.01	-6.11
1500.0	95.8 (94.3)	88.0	69.28	74.74	79.99	81.46	83.10	81.13	75.43	65.81	50.69	27.17	-6.93
1505.7	95.6 (94.1)	87.7	69.39	74.28	79.07	81.51	82.56	80.62	75.38	65.73	50.57	26.97	-7.15
1523.1	95.1 (93.6)	87.4	68.20	73.63	78.57	81.08	82.45	80.49	74.74	65.02	49.72	25.88	-8.60
1552.9	94.9 (93.1)	87.2	67.18	73.07	78.28	80.99	82.26	80.19	73.97	64.11	48.57	24.33	-10.77
1596.3	94.0 (92.6)	86.6	66.14	72.33	77.60	80.37	82.00	79.43	73.57	63.52	47.63	22.79	-13.20
1655.1	93.1 (91.8)	86.0	65.41	71.13	77.09	80.04	81.16	79.02	72.51	62.20	45.84	20.19	-17.02

RUN NUMBER	= 504.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 531.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 1.248
AREA RATIO	= 1.000
VELOCITY RATIO	= .938
PRIMARY VELOCITY (FT/SEC)	= 666.148
MASS FLOW RATIO	= 1.592
PRIMARY MASS FLOW (LB/SEC)	= .193
THRUST (LBS)	= 8.000
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.430
ENVIRONMENTAL HUMIDITY (PER CENT)	= 64.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .009
INSTRUMENTATION NOISE FLOOR (DB)	= 48.567

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.19683E-01	120.8
500	1.77972E-03	102.5
1000	8.94725E-03	109.5
2000	2.72095E-02	114.3
4000	3.61667E-02	115.6
8000	3.19465E-02	115.0
16000	9.86507E-03	109.9
31500	3.76741E-03	105.8

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	151.7
20000	154.8
40000	157.8
80000	160.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	81.8	89.2	92.4	89.3	86.3	75.5	69.3	96.0
20.0	81.5	88.2	92.3	90.3	87.3	77.0	70.7	96.2
25.0	79.3	86.6	91.2	90.8	88.1	78.8	72.8	95.8
30.0	77.8	85.9	90.3	90.6	88.4	80.2	74.3	95.4
35.0	76.3	83.6	88.9	90.1	88.7	81.6	76.0	94.8
40.0	74.8	82.0	87.6	89.2	88.4	82.8	77.2	94.0
45.0	72.7	80.3	85.9	88.2	87.4	82.8	78.4	93.0
50.0	72.2	79.3	84.9	87.4	86.9	82.6	78.5	92.3
55.0	70.7	78.0	83.6	86.6	86.2	82.2	78.0	91.5
60.0	70.9	77.7	83.3	86.1	85.8	81.7	77.7	91.1
65.0	70.7	77.6	82.6	85.5	85.9	81.5	77.4	90.7
70.0	70.3	76.7	82.0	84.9	85.3	80.9	77.1	90.2
75.0	69.8	76.2	81.4	84.2	84.8	80.5	76.6	89.6
80.0	69.0	75.4	80.8	83.6	84.2	80.1	76.5	89.0
85.0	69.2	75.4	81.1	83.6	84.2	79.9	76.5	89.1
90.0	69.2	75.1	80.2	82.8	84.3	79.5	75.9	88.7
95.0	69.1	74.5	79.9	82.3	84.0	79.0	75.4	88.2
100.0	68.3	74.8	79.6	81.8	83.0	78.4	74.9	87.6
105.0	67.3	73.6	79.1	81.7	82.6	78.0	74.4	87.2
110.0	66.8	72.8	78.5	81.5	82.2	77.9	74.3	86.9
115.0	66.4	71.5	77.0	80.4	81.3	77.5	72.3	85.9

L.	BNDA.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 10.0	20.0	40.0	80.0	160.0	320.0	630.0	1260.0	2500.0	5000.0	10000.0
5795.6	69.0(68.3)	78.2	61.08	68.42	71.62	68.40	65.07	53.23	44.48	35.06	18.05	-13.42	-68.43
4585.7	73.2(72.1)	77.8	63.15	69.86	73.93	71.90	68.65	57.53	49.34	41.48	27.87	3.33	-39.03
3549.3	76.9(74.9)	79.2	62.48	70.16	74.70	74.27	71.33	61.40	53.78	46.85	35.26	14.83	-20.02
3000.0	78.5(76.9)	80.3	62.80	70.90	75.30	75.56	73.12	64.45	57.14	50.81	40.56	22.82	-7.10
2615.2	80.4(79.4)	80.9	62.52	69.75	75.10	76.26	74.71	67.12	60.31	54.41	45.09	29.24	2.77
2333.6	81.6(79.2)	81.1	61.96	69.16	74.75	76.32	75.34	69.33	62.75	57.16	48.52	34.06	10.12
2121.3	82.1(79.4)	80.9	60.73	68.26	73.89	76.16	75.24	70.25	64.90	59.55	51.42	38.00	15.96
1958.1	82.6(79.6)	80.9	60.87	67.99	73.55	76.06	75.39	70.83	65.79	60.62	52.88	40.27	19.49
1831.2	82.6(79.5)	80.7	60.00	67.28	72.92	75.86	75.34	70.99	65.98	60.95	53.53	41.53	22.10
1732.1	82.8(79.6)	80.7	60.71	67.44	73.03	75.86	75.39	70.97	66.29	61.37	54.18	42.67	24.13
1655.1	83.1(79.9)	80.8	60.88	67.11	72.74	75.61	75.92	71.25	66.39	61.56	54.56	43.43	25.57
1596.3	83.0(79.7)	80.6	60.73	67.13	72.45	75.33	75.67	71.01	66.48	61.71	54.85	44.01	26.69
1552.9	82.7(79.3)	80.2	60.35	66.94	72.12	74.90	75.17	70.81	66.19	61.47	54.71	44.09	27.15
1523.1	82.4(78.9)	79.8	59.86	66.24	71.72	74.46	74.93	70.56	66.28	61.59	54.91	44.43	27.76
1505.7	82.6(79.1)	80.0	60.23	66.14	72.03	74.59	75.09	70.44	66.39	61.73	55.09	44.69	28.18
1500.0	82.3(78.9)	79.6	60.26	66.16	71.16	73.82	75.19	72.14	65.83	61.16	54.54	44.17	27.71
1505.7	81.8(78.4)	79.1	60.10	65.53	70.85	73.23	74.82	69.63	65.36	60.69	54.05	43.65	27.14
1523.1	80.4(77.4)	78.4	59.16	65.66	70.47	72.65	73.74	69.80	64.68	59.88	53.31	42.91	26.16
1552.9	80.2(76.8)	77.9	58.92	64.29	69.80	72.61	73.14	68.31	64.01	59.29	52.53	41.90	24.97
1596.3	79.6(76.1)	77.1	57.97	61.24	68.93	71.92	72.53	67.99	63.61	58.84	51.98	41.14	23.82
1655.1	77.9(74.7)	75.9	56.78	61.71	67.12	70.51	71.33	67.23	61.29	56.45	49.65	38.32	20.47

RUN NUMBER	= 505.00 (765.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 528.000
SECONDARY TEMPERATURE (R)	= 527.000
PRIMARY PRESSURE RATIO	= 1.519
AREA RATIO	= 2.007
VELOCITY RATIO	= .366
PRIMARY VELOCITY (FT/SEC)	= 847.055
MASS FLOW RATIO	= 1.043
PRIMARY MASS FLOW (LB/SEC)	= .217
THRUST (LBS)	= 5.000
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.430
ENVIRONMENTAL HUMIDITY (PER CENT)	= 64.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .009
INSTRUMENTATION NOISE FLOOR (DB)	= 48.567

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.977984E-01	123.0
500	7.72333E-04	98.9
1000	4.58108E-03	106.6
2000	2.47837E-02	113.9
4000	9.19359E-02	119.6
8000	6.03014E-02	117.8
16000	1.13638E-02	110.6
31500	4.24557E-03	106.3

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	156.0
20000	159.0
40000	162.0
80000	165.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	77.3	85.7	90.9	91.8	84.7	78.7	73.1	96.0
20.0	78.4	85.1	91.0	92.3	89.6	80.5	75.6	98.3
25.0	79.2	83.7	90.1	92.0	90.2	81.9	76.4	98.1
30.0	79.2	82.2	90.4	91.8	89.7	83.1	77.0	97.9
35.0	78.2	80.8	86.8	91.2	89.2	84.7	78.6	95.8
40.0	69.8	78.2	85.6	90.8	88.5	84.6	80.1	94.6
45.0	69.1	76.8	84.5	91.0	89.0	84.1	79.5	94.5
50.0	68.3	75.3	84.0	91.2	89.3	83.7	79.4	94.6
55.0	68.0	74.5	83.2	90.6	89.2	82.9	78.9	94.0
60.0	68.1	74.5	83.5	91.0	89.0	82.1	78.0	94.0
65.0	67.8	74.5	83.0	90.6	89.3	81.7	77.8	93.9
70.0	68.6	74.4	83.1	90.6	89.0	81.6	77.5	93.8
75.0	68.3	74.9	82.2	90.3	88.7	80.3	76.2	93.4
80.0	67.8	74.5	82.0	90.0	87.8	79.8	75.8	92.9
85.0	67.1	74.3	82.7	90.0	88.8	79.2	75.3	93.2
90.0	67.1	74.2	83.0	88.4	88.5	78.1	74.6	92.4
95.0	66.6	73.1	83.2	88.6	87.6	77.9	74.6	91.9
100.0	65.7	72.7	82.6	89.0	86.4	77.1	73.8	91.7
105.0	65.2	71.7	82.0	89.0	86.0	76.9	73.1	91.6
110.0	64.4	70.4	80.2	88.0	85.0	76.4	72.8	90.5
115.0	64.1	69.7	78.2	86.1	83.8	75.4	72.0	88.9

MODEL THRUST = 5.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 7.9	15.8	31.6	63.2	126.5	253.0	506.1	1012.4	2025.8	4065.7
4388.7	76.6	75.1	80.1	60.13	48.86	74.74	76.75	73.11	63.50	54.97	50.36	39.16	18.98	-18.46
3649.3	79.5	77.7	81.4	60.78	49.27	75.41	77.56	75.56	66.82	60.19	54.23	44.41	27.71	-1.55
3000.0	81.4	79.2	82.5	60.20	49.25	75.61	78.74	76.52	69.41	63.46	57.	49.36	34.61	9.62
2615.9	83.1	80.4	83.1	60.40	48.99	75.83	79.36	77.25	72.07	66.48	61.31	53.43	40.19	17.46
2311.6	84.0	81.0	83.5	58.99	47.67	76.74	79.66	77.59	73.35	68.14	63.21	55.45	43.72	23.45
2121.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1958.1	85.8	82.9	83.1	59.00	46.63	76.71	81.07	78.48	74.08	69.18	64.58	57.91	47.26	29.19
1831.2	86.3	83.1	85.5	59.28	45.88	76.52	81.68	80.66	75.49	69.25	64.74	58.32	48.15	31.61
1732.1	86.5	83.4	85.8	59.92	46.24	75.28	82.39	80.68	75.58	69.93	64.98	58.27	48.49	32.07
1655.1	87.0	83.8	86.0	60.00	46.44	75.15	82.48	81.37	75.41	69.28	64.83	58.74	48.26	32.05
1596.3	87.1	84.0	86.2	61.07	46.41	75.61	83.08	81.63	75.41	69.23	65.23	58.98	48.65	32.86
1552.9	86.7	83.7	86.1	61.81	47.41	76.42	83.07	81.75	75.42	69.42	65.17	59.07	48.85	34.28
1523.1	86.3	83.2	85.8	60.72	47.60	74.10	82.93	81.68	75.65	69.49	65.04	57.87	48.84	34.59
1505.7	86.7	83.8	86.2	60.17	47.36	75.71	83.48	81.73	75.97	69.86	65.35	57.58	48.65	34.51
1500.0	86.1	83.2	85.6	60.20	47.01	76.01	83.48	81.51	75.42	69.59	65.05	58.05	47.74	33.48
1505.7	85.4	82.4	84.9	59.86	46.18	76.20	83.74	80.93	75.48	69.48	64.81	58.48	47.71	32.67
1523.1	84.4	81.4	84.4	58.66	45.64	75.46	83.47	79.98	74.98	69.18	64.72	58.51	47.67	32.43
1552.9	83.4	80.4	84.3	58.02	44.61	73.73	81.73	78.71	74.17	68.83	64.78	58.46	47.78	32.37
1594.3	82.4	79.5	83.8	56.87	43.41	72.38	80.48	77.39	73.13	68.32	64.85	58.42	47.77	32.48
1655.1	80.8	77.9	81.8	56.32	41.95	70.34	78.35	75.92	67.27	63.36	58.97	52.09	43.61	29.18

RUN NUMBER	= 506.00 (766.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 526.000
SECONDARY TEMPERATURE (R)	= 527.000
PRIMARY PRESSURE RATIO	= 1.284
AREA RATIO	= 2.007
VELOCITY RATIO	= .939
PRIMARY VELOCITY (FT/SEC)	= 663.004
MASS FLOW RATIO	= 2.239
PRIMARY MASS FLOW (LB/SEC)	= .192
THRUST (LBS)	= 9.000
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.430
ENVIRONMENTAL HUMIDITY (PER CENT)	= 64.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .014
INSTRUMENTATION NOISE FLOOR (DB)	= 52.625

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.22743E-01	120.9
500	1.62371E-03	102.1
1000	7.97018E-03	109.0
2000	2.25712E-02	113.5
4000	3.30692E-02	115.2
8000	3.52754E-02	115.5
16000	1.58461E-02	112.0
31500	6.38772E-03	108.1

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	151.3
20000	154.4
40000	157.4
80000	160.4

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	81.0	88.6	91.8	88.9	86.7	80.8	77.4	95.8
20.0	80.0	87.9	91.6	90.3	88.1	82.7	78.3	96.2
25.0	78.7	86.6	91.0	91.1	89.2	84.2	79.8	96.3
30.0	76.4	84.3	89.1	91.1	90.6	85.9	81.1	96.1
35.0	74.2	81.9	87.3	89.4	90.0	86.4	81.8	95.0
40.0	72.5	80.5	85.9	88.4	89.2	86.0	81.9	94.1
45.0	70.8	78.5	84.1	87.4	88.1	85.2	81.2	93.0
50.0	71.0	77.5	83.2	86.2	87.2	84.3	80.3	92.0
55.0	70.7	77.4	82.6	85.8	87.1	84.3	80.6	91.8
60.0	71.2	76.9	82.2	85.2	86.6	83.7	79.8	91.3
65.0	71.7	77.1	82.1	84.8	86.0	82.8	78.8	90.8
70.0	71.5	77.2	81.8	84.4	85.4	82.2	78.4	90.3
75.0	71.7	76.7	81.3	84.2	84.9	81.4	78.3	90.0
80.0	71.6	76.9	81.1	84.0	84.6	81.0	77.3	89.6
85.0	70.7	76.3	80.5	83.0	83.5	80.3	76.7	88.7
90.0	70.5	75.9	79.9	82.6	83.3	79.6	76.4	88.3
95.0	69.7	75.0	79.8	81.7	82.6	79.0	75.9	87.7
100.0	68.9	74.9	79.5	81.7	82.2	79.0	75.9	87.5
105.0	68.4	73.9	79.0	81.4	81.7	78.5	75.2	87.0
110.0	67.9	73.5	78.4	81.0	80.9	77.9	74.8	86.4
115.0	67.4	72.2	76.9	80.0	80.5	77.2	70.8	85.4

MODEL THRUST = 9.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
			10.6	21.2	42.4	84.9	169.7	339.4	678.2	1356.4	2651.7	5303.3	10606.6
5999.4	70.4(69.2)	74.3	59.78	67.38	70.90	67.50	64.91	57.91	51.70	41.80	23.87	-9.21	-66.70
4385.7	74.9(73.5)	77.2	61.22	69.10	72.76	71.41	68.86	62.66	56.13	47.91	33.62	7.85	-36.38
3549.3	78.4(76.8)	79.1	61.73	69.57	74.01	74.03	71.92	66.25	60.12	52.89	40.75	19.33	-17.04
3000.0	81.3(79.2)	80.4	60.90	68.76	73.61	75.49	74.80	69.57	63.28	56.71	45.98	27.41	-3.90
2615.2	82.6(79.9)	80.4	59.87	67.62	72.93	75.04	75.38	71.30	65.47	59.35	49.62	33.05	5.46
2333.6	83.1(80.3)	80.6	59.13	67.19	72.51	74.99	75.68	72.03	66.76	60.98	51.97	36.86	11.92
2121.3	83.2(80.2)	80.3	58.35	66.62	71.55	74.45	75.44	72.09	67.05	61.53	53.07	39.06	16.11
1958.1	83.1(80.0)	80.0	59.22	65.65	71.33	74.35	75.22	71.93	67.02	61.69	53.65	40.48	19.07
1831.2	83.9(80.6)	80.4	59.44	66.14	71.33	74.52	75.71	72.60	68.00	62.82	55.10	42.59	22.38
1732.1	83.9(80.5)	80.4	60.45	66.17	71.48	74.41	75.67	72.45	67.75	62.68	55.22	43.23	23.95
1655.1	83.5(80.2)	80.3	61.35	66.75	71.71	74.38	75.51	71.96	67.19	62.22	54.96	43.37	24.41
1596.3	83.5(80.1)	80.2	61.50	67.15	71.79	74.33	75.27	71.70	67.19	62.29	55.17	43.89	25.88
1552.9	83.5(80.0)	80.1	61.90	66.93	71.47	74.36	74.95	71.68	67.33	62.48	55.48	44.42	26.42
1523.1	82.9(79.5)	79.9	61.74	67.29	71.45	74.35	74.85	70.97	66.65	61.64	54.72	43.81	26.49
1505.7	82.2(78.8)	79.1	61.14	66.81	70.85	73.44	73.83	70.35	65.98	61.19	54.31	43.49	26.34
1500.6	81.8(78.3)	78.7	60.99	66.43	70.60	73.07	73.71	69.68	65.71	60.92	54.06	43.27	26.17
1505.7	81.1(77.6)	78.1	60.19	65.52	70.30	72.17	72.96	69.09	65.18	60.39	53.51	42.69	25.54
1523.1	80.9(77.3)	77.8	59.24	65.30	69.49	72.01	72.38	68.97	65.07	60.25	53.33	42.43	25.10
1552.9	80.1(76.6)	77.1	58.81	64.14	69.16	71.45	71.78	68.30	64.18	59.33	52.35	41.27	23.87
1596.3	79.1(75.5)	76.3	57.89	63.50	68.12	70.95	70.73	67.40	63.54	58.64	51.53	40.24	22.23
1655.1	78.9(73.9)	74.9	57.07	61.84	66.57	69.59	69.98	66.37	59.17	54.20	46.94	35.35	16.79

RUN NUMBER	= 511.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 523.000
SECONDARY TEMPERATURE (R)	= 523.000
PRIMARY PRESSURE RATIO	= 1.519
AREA RATIO	= 4.856
VELOCITY RATIO	= .366
PRIMARY VELOCITY (FT/SEC)	= 843.035
MASS FLOW RATIO	= 2.051
PRIMARY MASS FLOW (LB/SEC)	= .218
THRUST (LBS)	= 12.000
ENVIRONMENTAL TEMPERATURE (R)	= 518.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.310
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.500
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .006
INSTRUMENTATION NOISE FLOOR (DB)	= 44.543

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.04460E-02	118.5
500	8.53819E-04	99.3
1000	4.32829E-03	106.4
2000	1.65157E-02	112.2
4000	2.97167E-02	114.7
8000	1.33500E-02	111.3
16000	3.88282E-03	105.9
31500	1.79873E-03	102.5

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	147.7
20000	150.7
40000	153.7
80000	156.7

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	74.1	84.7	87.9	86.0	79.6	68.2	66.5	91.6
20.0	76.2	83.6	87.7	86.8	80.0	69.8	67.3	91.6
25.0	76.0	83.1	87.6	87.2	81.1	72.3	68.6	91.7
30.0	74.9	81.9	86.8	87.0	82.6	75.3	70.7	91.4
35.0	73.0	80.5	85.8	87.0	83.6	77.7	72.5	91.2
40.0	71.9	79.3	84.7	86.3	83.7	78.7	73.7	90.6
45.0	70.6	77.3	83.1	86.3	84.0	79.0	74.4	90.2
50.0	69.9	76.2	82.6	86.1	84.1	79.2	75.1	90.1
55.0	69.0	75.0	81.8	85.8	83.0	78.2	74.8	89.4
60.0	68.2	74.3	81.5	85.8	82.9	77.8	74.8	89.2
65.0	68.1	74.2	81.4	85.9	82.8	77.6	74.4	89.2
70.0	68.0	74.3	81.1	85.8	82.3	77.4	74.2	89.0
75.0	68.2	74.6	81.1	85.8	82.1	76.8	73.9	88.9
80.0	68.1	74.7	81.0	85.3	81.2	76.4	73.6	88.4
85.0	67.7	74.4	81.6	84.9	81.6	75.9	73.5	88.4
90.0	67.3	73.8	81.8	83.5	81.4	75.3	72.8	87.7
95.0	66.7	73.7	81.5	83.2	80.1	74.8	71.9	87.2
100.0	66.5	72.9	81.1	83.8	79.2	74.3	71.4	87.1
105.0	65.6	71.9	79.5	83.6	78.9	73.4	70.8	86.5
110.0	65.1	70.9	78.6	82.8	78.0	73.1	70.5	85.7
115.0	64.4	70.0	76.7	80.9	76.9	72.3	69.9	84.1

MODEL THRUST = 12.000 FULL SCALE THRUST = 20000.000

L.	PNDB.		OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 12.2	24.5	49.0	98.0	196.0	391.9	771.6	1543.2	3061.9	6123.7	12247.4
3799.0	62.1	61.3	68.9	51.63	62.25	65.39	63.28	56.39	43.69	38.59	27.40	7.03	-30.28	-96.14
4385.7	66.3	65.2	71.5	56.17	63.56	67.60	66.61	59.42	48.19	43.08	33.88	17.73	-11.23	-60.29
3549.3	69.6	68.2	73.4	57.82	64.84	69.31	68.80	62.47	52.83	47.02	39.00	25.36	1.35	-38.92
3000.0	72.4	70.8	74.5	58.13	65.18	70.01	70.13	65.48	57.43	51.14	43.90	31.91	11.15	-23.35
2615.2	74.9	73.0	75.5	57.42	64.91	70.21	71.30	67.73	61.22	54.42	47.72	36.89	18.40	-12.06
2333.6	76.4	74.3	75.9	57.37	64.76	70.06	71.66	68.87	63.25	56.94	50.65	40.65	23.84	-3.67
2121.3	77.7	75.3	76.3	56.87	63.56	69.28	72.48	70.02	64.54	58.70	52.70	43.34	27.78	2.51
1958.1	78.7	76.1	76.8	56.81	63.13	69.54	73.01	70.78	65.41	60.22	54.45	45.58	30.99	7.43
1831.2	78.7	75.9	76.8	56.49	62.56	69.31	73.25	70.35	65.08	60.63	55.04	46.55	32.71	10.48
1732.1	79.1	76.2	77.1	56.25	62.33	69.46	73.71	70.65	65.16	61.21	55.76	47.57	34.31	13.12
1655.1	79.3	76.5	77.5	56.55	62.62	69.83	74.21	70.97	65.40	61.29	55.95	47.99	35.20	14.81
1596.3	79.5	76.5	77.6	56.67	62.99	69.77	74.48	70.78	65.55	61.43	56.17	48.39	35.94	16.17
1552.9	79.6	76.6	77.8	57.19	63.57	70.05	74.74	70.86	65.23	61.38	56.19	48.51	36.36	17.03
1523.1	79.2	76.1	77.4	57.27	63.79	70.07	74.33	70.14	64.95	61.33	56.17	48.61	36.59	17.60
1505.7	79.4	76.3	77.5	56.88	63.64	70.42	74.07	70.61	64.57	61.27	56.14	48.63	36.72	17.90
1500.0	78.9	75.8	76.9	56.60	63.07	71.05	72.72	70.44	63.98	60.49	55.37	47.87	35.99	17.24
1505.7	77.8	74.8	76.3	55.92	62.47	70.73	72.37	69.11	63.45	59.76	54.63	47.12	35.20	16.39
1523.1	77.2	74.1	76.2	55.59	61.99	70.18	72.89	68.17	62.90	59.11	53.96	46.39	34.37	15.38
1552.9	76.4	73.3	75.8	54.57	60.83	68.47	72.51	67.88	61.81	58.36	53.15	45.49	33.38	13.99
1596.3	75.3	72.2	74.3	53.80	59.61	67.26	71.43	66.53	61.25	57.70	52.45	44.66	32.21	12.45
1655.1	73.7	70.5	72.4	52.78	58.37	65.13	69.26	65.10	60.12	56.70	51.38	43.40	30.60	10.22

RUN NUMBER	= 512.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 523.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 1.246
AREA RATIO	= 4.856
VELOCITY RATIO	= .940
PRIMARY VELOCITY (FT/SEC)	= 661.111
MASS FLOW RATIO	= 4.416
PRIMARY MASS FLOW (LB/SEC)	= .193
THRUST (LBS)	= 24.500
ENVIRONMENTAL TEMPERATURE (R)	= 518.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.310
ENVIRONMENTAL HUMIDITY (PER CENT)	= 69.500
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .010
INSTRUMENTATION NOISE FLOOR (DB)	= 49.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.531918E-01	121.9
500	6.823076E-03	108.2
1000	2.299126E-02	113.6
2000	4.092136E-02	116.1
4000	3.902996E-02	115.9
8000	2.607386E-02	114.2
16000	1.209776E-02	110.8
31500	5.733726E-03	107.6

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	148.0
20000	151.0
40000	154.0
80000	157.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	87.0	92.1	91.3	86.5	80.6	74.0	70.3	96.1
20.0	86.6	92.4	93.0	88.7	82.6	75.4	72.1	97.1
25.0	85.5	91.4	92.9	90.0	84.1	77.3	73.9	97.0
30.0	84.0	89.9	91.9	90.8	86.2	79.9	76.0	96.6
35.0	81.9	88.0	91.0	90.8	87.8	82.0	77.4	96.1
40.0	80.1	86.4	89.7	89.9	87.9	83.1	78.6	95.2
45.0	78.6	84.5	88.0	88.3	86.6	82.9	78.9	93.8
50.0	77.4	82.8	86.8	87.5	86.2	82.8	78.8	93.0
55.0	76.5	81.7	85.7	86.5	85.7	82.4	78.5	92.1
60.0	76.5	81.2	84.9	86.1	85.1	82.0	78.4	91.6
65.0	76.2	81.0	84.3	85.4	84.8	81.6	77.9	91.1
70.0	76.1	80.4	84.4	85.5	84.7	81.7	78.3	91.1
75.0	76.4	80.0	84.1	84.9	84.5	81.8	78.5	90.8
80.0	75.8	80.2	83.5	84.9	84.2	81.8	78.3	90.7
85.0	75.4	79.5	83.3	84.5	83.7	81.3	78.1	90.2
90.0	75.4	79.9	83.3	84.3	83.5	81.1	78.0	90.1
95.0	74.7	78.6	82.9	83.9	83.4	81.0	78.0	89.8
100.0	74.0	78.7	82.3	83.7	83.0	80.8	77.8	89.5
105.0	73.0	78.0	82.2	83.4	82.6	80.3	77.6	89.1
110.0	72.2	77.2	81.6	82.7	82.2	80.2	77.4	88.6
115.0	72.4	76.2	81.1	82.2	81.5	79.2	76.7	88.0

MODEL THRUST = 24.500 FULL SCALE THRUST = 10000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 24.7	49.5	99.0	198.0	396.0	792.0	1559.2	3118.3	6187.2	12374.4	24748.7
3795.8	82.2(82.0)	87.3	58.44	83.44	82.50	57.19	69.88	39.78	27.91	7.06	-30.28	-94.62	-195.61
4385.7	67.5(67.2)	70.7	60.40	66.19	66.67	62.03	54.90	44.93	35.49	18.99	-10.00	-59.42	-136.57
3549.3	71.1(70.9)	72.4	61.14	67.07	68.39	65.28	58.49	49.54	41.12	27.19	3.16	-37.41	-100.42
3000.0	73.9(73.1)	73.4	61.17	67.04	68.93	67.61	62.23	54.12	45.97	33.74	12.96	-21.79	-75.52
2615.2	75.7(74.8)	74.0	60.17	66.31	69.27	68.77	65.13	57.73	49.47	38.42	19.92	-10.76	-57.97
2333.4	76.9(75.8)	74.1	59.41	65.72	68.89	68.97	66.36	60.10	52.33	42.14	25.32	-2.38	-44.84
2121.3	76.9(75.6)	73.4	58.74	64.54	68.32	68.17	65.98	61.00	54.00	44.47	28.90	3.45	-35.42
1958.1	77.3(75.8)	73.3	58.23	63.61	67.60	66.10	66.34	61.72	55.00	45.97	31.37	7.65	-28.46
1831.2	77.4(75.8)	73.0	57.95	63.13	67.03	67.72	66.44	62.02	55.55	46.91	33.06	10.68	-23.28
1732.1	77.6(75.9)	73.0	58.37	63.07	66.76	67.74	66.40	62.17	56.18	47.85	34.58	13.25	-19.03
1655.1	77.8(75.9)	72.9	58.50	63.26	66.58	67.46	66.45	62.24	56.22	48.12	35.31	14.80	-16.19
1596.3	78.1(76.3)	73.2	58.68	63.02	66.94	67.91	66.76	62.71	57.12	49.21	36.75	16.86	-13.13
1552.9	79.2(76.3)	73.2	59.25	62.91	66.75	67.91	66.75	63.09	57.64	49.86	37.66	18.22	-11.03
1523.1	78.3(76.3)	73.2	58.81	63.16	66.49	67.74	66.70	63.34	57.71	50.02	37.99	18.87	-9.98
1505.7	78.0(76.0)	72.9	58.55	62.61	66.34	67.47	66.25	62.99	57.67	50.03	38.11	19.17	-9.29
1500.0	77.8(75.8)	72.8	58.58	63.07	66.41	67.24	66.07	62.77	57.53	49.91	38.03	19.15	-9.21
1505.7	77.6(75.6)	72.4	57.78	61.73	65.94	66.84	65.96	62.67	57.49	49.85	37.93	18.99	-9.47
1523.1	77.2(75.2)	72.0	57.01	61.76	65.23	66.55	65.51	62.28	57.16	49.47	37.44	18.32	-10.43
1552.9	76.6(74.6)	71.4	56.83	60.79	64.72	66.26	64.94	61.68	56.73	48.95	36.74	17.31	-11.75
1596.3	75.9(73.9)	70.6	54.77	59.76	64.15	65.16	64.23	61.22	56.19	48.27	35.82	15.92	-14.07
1655.1	74.7(72.8)	69.7	54.67	58.50	63.71	64.13	63.18	59.89	55.02	46.92	34.11	13.60	-17.19

RUN NUMBER	= 515.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 523.000
SECONDARY TEMPERATURE (R)	= 526.000
PRIMARY PRESSURE RATIO	= 1.519
AREA RATIO	= 9.784
VELOCITY RATIO	= .367
PRIMARY VELOCITY (FT/SEC)	= 843.035
MASS FLOW RATIO	= 3.525
PRIMARY MASS FLOW (LB/SEC)	= .217
THRUST (LBS)	= 16.000
ENVIRONMENTAL TEMPERATURE (R)	= 519.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.290
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .008
INSTRUMENTATION NOISE FLOOR (DB)	= 47.532

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.81005E-02	117.6
500	7.88526E-03	109.0
1000	4.91974E-03	106.9
2000	1.46890E-02	111.7
4000	1.66153E-02	112.2
8000	8.71582E-03	109.4
16000	3.59946E-03	105.6
31500	1.67589E-03	102.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST.

THRUST	POWER LEVEL(DB)
10000	145.6
20000	148.6
40000	151.6
80000	154.6

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	79.8	85.7	88.6	85.8	79.0	70.8	67.3	92.2
20.0	78.7	84.6	88.5	86.1	80.3	72.8	68.7	92.1
25.0	77.8	83.8	88.0	87.2	82.4	75.4	70.8	92.3
30.0	77.0	82.7	87.3	87.2	83.9	77.4	72.3	92.1
35.0	75.6	81.3	85.9	86.5	84.1	79.0	74.1	91.4
40.0	73.9	79.5	84.9	85.8	84.0	79.6	75.1	90.7
45.0	73.4	78.3	83.5	84.9	83.3	79.4	75.4	89.8
50.0	50.0	58.0	82.7	84.3	82.7	79.0	75.2	88.8
55.0	91.6	76.8	81.8	83.7	81.7	78.6	75.1	93.3
60.0	69.8	76.1	81.1	82.9	81.0	77.9	74.7	87.7
65.0	71.8	75.4	80.6	82.3	80.0	77.2	74.2	87.1
70.0	70.9	75.3	79.9	81.6	79.2	76.6	73.6	86.4
75.0	70.7	74.9	79.5	81.3	78.4	75.6	72.7	85.9
80.0	70.8	75.2	79.1	80.9	77.8	75.0	72.7	85.5
85.0	69.2	74.9	79.4	80.0	76.8	74.1	71.9	85.0
90.0	68.6	74.3	79.0	79.1	76.4	73.3	71.3	84.4
95.0	68.7	73.6	78.9	79.1	75.6	72.6	70.6	84.1
100.0	68.7	72.6	78.3	78.9	74.9	71.9	69.9	83.6
105.0	67.9	71.5	77.1	78.6	74.5	71.1	69.3	82.9
110.0	66.3	70.9	76.1	77.6	73.6	70.7	68.7	81.9
115.0	66.8	69.7	74.7	76.1	72.9	70.1	67.8	80.8

MODEL THRUST = 16.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	14.1	OCTAVE 28.3	BAND 56.6	SOUND 113.1	PRESSURE 226.3	LEVELS 452.5	891.0	1781.9	3535.5	7071.1	14142.1
5799.8	61.9(61.2)	60.3	58.10	61.94	64.78	61.78	54.36	44.53	36.98	24.28	1.14	-40.82	-111.50
4385.7	65.8(64.8)	70.6	57.37	63.32	67.09	64.59	58.34	49.56	42.37	32.04	13.81	-18.68	-72.90
3549.3	69.7(68.5)	72.6	58.32	64.28	68.58	67.60	62.35	54.35	47.23	38.30	22.97	-3.89	-48.34
3000.8	72.8(71.3)	73.8	58.95	64.67	69.20	69.00	65.43	58.10	50.85	42.84	29.42	6.25	-31.79
2615.2	74.7(72.9)	74.3	58.77	64.47	69.02	69.56	66.87	61.07	54.25	46.88	34.80	14.22	-19.33
2333.6	75.9(73.8)	74.6	58.06	63.66	69.02	69.90	67.79	62.71	56.64	49.74	38.63	19.94	-10.31
2121.3	76.5(74.1)	74.6	58.39	63.33	68.47	69.83	67.94	63.48	58.01	51.46	41.09	23.83	-3.94
1958.1	76.5(73.8)	74.2	61.73	63.71	68.34	69.04	66.14	63.87	58.69	52.42	42.62	26.45	.59
1831.2	78.2(75.6)	79.5	77.92	83.07	88.07	89.12	87.74	84.06	79.32	53.26	43.90	28.59	4.20
1732.1	76.9(73.9)	74.3	56.33	62.84	67.83	69.60	67.46	63.94	59.50	53.61	44.59	29.95	6.72
1655.1	76.6(73.6)	74.1	58.93	62.52	67.74	69.39	66.92	63.59	59.44	53.67	44.92	30.80	8.47
1596.3	76.3(73.2)	73.7	58.41	62.77	67.30	69.04	66.43	63.38	59.24	53.57	45.03	31.29	9.65
1552.9	75.8(72.8)	73.5	58.65	62.63	67.20	68.92	65.88	62.65	58.64	53.04	44.65	31.21	10.07
1523.1	75.6(72.3)	73.3	58.72	63.06	66.93	68.68	65.41	62.25	58.84	53.30	45.00	31.76	10.98
1505.7	74.9(71.6)	72.8	57.19	62.83	67.34	67.86	64.50	61.45	58.12	52.60	44.37	31.25	10.96
1500.0	74.3(70.9)	72.2	56.61	62.25	66.97	67.04	64.15	60.68	57.55	52.04	43.83	30.75	10.23
1505.7	73.6(70.2)	71.9	56.70	61.56	66.84	66.96	63.36	59.88	56.85	51.34	43.11	29.98	9.40
1523.1	72.8(69.4)	71.3	56.60	60.49	66.12	66.73	62.58	59.06	56.02	50.48	42.19	28.95	8.16
1552.9	71.9(68.6)	70.5	55.64	59.26	64.83	66.25	62.01	58.10	55.25	49.65	41.96	27.82	6.68
1596.3	70.8(67.5)	69.3	53.74	58.40	63.51	64.95	60.83	57.43	54.35	48.68	40.13	26.40	4.76
1655.1	69.5(66.2)	67.8	53.91	56.97	61.97	63.13	59.85	56.50	53.07	47.31	38.56	24.43	2.10

RUN NUMBER	= 516.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 532.000
SECONDARY TEMPERATURE (R)	= 534.000
PRIMARY PRESSURE RATIO	= 1.288
AREA RATIO	= 9.788
VELOCITY RATIO	= .940
PRIMARY VELOCITY (FT/SEC)	= 666.775
MASS FLOW RATIO	= 7.676
PRIMARY MASS FLOW (LB/SEC)	= .185
THRUST (LBS)	= 35.000
ENVIRONMENTAL TEMPERATURE (R)	= 519.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.290
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .018
INSTRUMENTATION NOISE FLOOR (DB)	= 54.588

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.20900E-01	123.6
500	1.74300E-02	112.4
1000	3.45200E-02	115.4
2000	5.98733E-02	117.8
4000	5.53966E-02	117.4
8000	3.54079E-02	115.5
16000	1.66943E-02	112.2
31500	7.14957E-03	108.5

OVERALL SOUND POWER LEVEL, SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	148.1
20000	151.1
40000	154.1
80000	157.1

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	90.2	93.0	91.7	87.2	81.8	77.4	74.6	97.2
20.0	89.4	92.7	92.8	88.2	83.6	79.3	76.6	97.5
25.0	88.5	92.5	93.3	90.8	86.6	82.1	78.6	98.1
30.0	86.9	91.0	92.9	91.8	88.9	84.6	80.2	98.0
35.0	85.1	89.9	92.4	91.5	89.1	85.0	80.7	97.6
40.0	84.1	88.5	91.3	91.4	89.3	85.3	81.1	97.0
45.0	77.0	82.6	90.8	90.7	88.6	85.2	81.1	95.8
50.0	82.2	86.9	89.9	90.1	88.2	85.3	81.6	95.8
55.0	81.5	85.4	88.6	89.1	87.7	84.9	81.0	94.8
60.0	89.6	85.5	88.4	88.8	87.5	84.6	80.9	95.6
65.0	80.9	84.3	87.4	88.0	86.6	83.7	80.0	93.7
70.0	80.0	83.6	86.7	87.7	86.4	83.3	79.8	93.3
75.0	79.6	83.2	86.3	86.9	85.2	82.3	78.8	92.5
80.0	79.6	83.1	85.8	86.5	84.8	81.7	76.2	92.1
85.0	78.8	82.6	85.2	85.7	84.4	81.5	78.0	91.6
90.0	77.9	81.5	84.9	85.1	83.8	80.8	77.5	91.0
95.0	77.3	81.4	84.4	85.0	83.6	80.5	77.0	90.7
100.0	76.3	80.9	84.0	84.3	82.9	80.1	76.8	90.2
105.0	75.9	80.0	83.5	84.1	82.1	79.2	76.4	89.6
110.0	75.1	79.4	82.6	83.5	82.0	79.2	76.0	89.1
115.0	75.4	78.5	82.4	82.7	81.3	78.7	76.0	88.5

MODEL THRUST = 35.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	20.9	OCTAVE 41.8	BAND 83.7	SOUND 167.3	PRESSURE 334.7	LEVELS 669.3	1317.7	2635.5	5229.1	10458.3	20916.5
9795.1	64.3(63.9)	69.9	63.08	65.83	64.66	59.98	53.09	45.82	36.35	18.60	-14.05	-70.94	-162.25
4385.7	68.8(68.1)	72.6	64.69	67.96	67.97	63.06	57.69	51.18	43.42	29.11	3.83	-39.95	-109.79
3949.1	73.5(72.7)	75.0	65.58	69.61	70.33	67.62	62.72	56.48	48.92	36.77	15.73	-20.27	-77.36
3000.0	76.7(75.7)	76.3	65.44	69.58	71.39	70.10	66.65	60.89	52.97	42.24	23.99	-6.90	-55.62
2615.2	78.3(77.1)	77.0	64.89	69.49	72.10	71.01	68.16	62.76	55.40	45.66	29.37	2.05	-40.80
2333.6	79.6(78.2)	77.4	64.83	69.30	72.05	71.97	69.46	64.26	57.40	48.38	33.53	8.83	-29.73
2121.3	79.8(78.1)	77.0	58.56	64.20	72.17	72.07	69.62	65.20	58.46	50.17	36.39	13.67	-21.66
1958.1	80.7(78.9)	77.7	64.53	69.21	72.14	72.25	69.92	66.08	60.09	52.05	39.10	17.89	-14.95
1831.2	80.8(78.9)	77.3	64.36	68.22	71.43	71.81	70.06	66.39	60.36	52.64	40.33	20.31	-10.60
1732.1	81.5(79.6)	78.7	72.76	68.83	71.71	72.00	70.41	66.64	60.92	53.45	41.65	22.55	-6.65
1655.1	80.8(78.7)	77.2	64.70	68.01	71.10	71.60	69.92	66.14	60.60	53.33	41.92	23.53	-4.69
1596.3	80.8(78.7)	77.0	64.06	67.70	70.77	71.44	70.02	66.13	60.76	53.65	42.54	24.69	-2.63
1552.9	80.1(78.0)	76.5	63.90	67.56	70.57	71.12	69.87	65.37	60.10	53.09	42.20	24.76	-1.90
1523.1	79.8(77.7)	76.3	64.07	67.55	70.19	70.79	68.81	64.95	59.70	52.77	42.03	24.87	-1.34
1505.7	79.5(77.3)	75.8	63.41	67.18	69.70	70.11	68.51	64.88	59.69	52.79	42.14	25.14	-.81
1500.6	78.9(76.7)	75.3	62.50	66.11	69.42	69.54	68.00	64.25	59.21	52.34	41.72	24.77	-1.09
1505.7	78.6(76.4)	74.9	61.86	65.94	68.90	69.41	67.71	63.91	58.83	51.74	41.09	24.09	-1.85
1523.1	77.9(75.7)	74.3	60.75	65.41	68.46	68.94	67.00	63.37	58.31	51.38	40.44	23.48	-2.73
1552.9	77.0(74.8)	73.6	60.21	64.51	67.76	68.26	66.02	62.26	57.70	50.69	39.80	22.36	-4.30
1596.3	76.0(74.2)	72.8	59.20	63.68	66.91	67.19	65.02	61.94	56.97	49.95	38.74	20.90	-6.43
1655.1	75.5(73.3)	71.9	59.15	62.24	66.15	66.28	64.64	61.14	56.54	49.27	37.86	19.47	-8.75

RUN NUMBER	= 519.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 536.000
SECONDARY TEMPERATURE (R)	= 536.000
PRIMARY PRESSURE RATIO	= 2.226
AREA RATIO	= 1.000
VELOCITY RATIO	= .400
PRIMARY VELOCITY (FT/SEC)	= 1149.357
MASS FLOW RATIO	= .690
PRIMARY MASS FLOW (LB/SEC)	= .333
THRUST (LBS)	= 18.500
ENVIRONMENTAL TEMPERATURE (R)	= 519.500
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.290
ENVIRONMENTAL HUMIDITY (PER CENT)	= 70.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .028
INSTRUMENTATION NOISE FLOOR (DB)	= 58.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.88205E+00	132.7
500	5.46848E-03	107.4
1000	3.91443E-02	115.9
2000	2.17471E-01	123.4
4000	5.24520E-01	127.2
8000	5.99788E-01	127.8
16000	3.45734E-01	125.4
31500	1.49927E-01	121.8

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.1
20000	163.1
40000	166.1
80000	169.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	86.2	95.3	101.0	101.2	98.3	92.9	87.2	105.9
20.0	85.6	94.9	101.8	102.4	99.3	93.9	88.6	106.7
25.0	84.4	93.6	101.3	102.8	100.2	95.1	90.2	107.0
30.0	82.9	92.0	100.0	102.6	100.5	95.7	90.7	106.6
35.0	81.4	90.5	98.6	101.8	100.7	96.0	92.0	106.1
40.0	79.7	88.5	97.1	101.2	101.0	96.7	92.3	105.8
45.0	78.1	86.5	95.0	99.8	101.4	98.3	93.7	105.6
50.0	76.8	85.2	92.8	98.6	100.6	98.1	94.0	104.7
55.0	76.4	84.3	91.7	98.3	100.1	98.3	94.4	104.5
60.0	75.5	83.4	91.3	97.5	99.1	97.6	94.2	103.8
65.0	75.5	83.2	90.6	96.9	97.9	96.3	93.2	102.7
70.0	75.3	82.8	90.0	96.3	97.3	95.7	92.7	102.2
75.0	75.3	82.7	89.3	95.4	97.0	95.3	92.6	101.7
80.0	74.8	82.2	88.9	95.0	96.4	94.5	91.9	101.1
85.0	74.4	82.3	88.8	95.1	96.8	94.7	91.8	101.3
90.0	74.1	81.5	88.3	94.1	96.2	94.4	91.7	100.7
95.0	74.1	80.9	88.4	93.2	96.4	94.6	91.6	100.7
100.0	73.1	80.3	88.0	93.5	96.2	95.0	91.4	100.7
105.0	72.8	79.6	86.9	93.5	96.1	94.6	91.1	100.4
110.0	71.6	78.2	85.9	92.9	95.3	95.4	90.7	100.2
115.0	71.6	77.5	84.3	91.5	93.5	94.2	90.3	98.9

MODEL THRUST = 18.500 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	15.2	OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
				30.4	60.8	121.7	243.3	486.6	958.0	1916.1	3801.7	7603.5	15206.9
9995.0	80.9(79.0)	81.1	61.80	70.87	76.55	78.57	72.98	65.66	55.46	41.96	17.28	-27.20	-101.48
4385.7	84.7(83.8)	84.4	63.67	72.91	79.75	80.18	76.61	69.78	61.15	50.20	30.81	-3.58	-60.53
3549.3	87.8(86.6)	86.5	64.34	73.49	81.16	82.48	79.45	73.27	65.58	56.14	39.88	11.49	-35.18
3000.0	89.7(88.3)	87.6	64.27	73.31	81.29	83.82	81.35	75.56	68.23	59.79	45.58	21.11	-16.79
2615.2	91.3(89.6)	88.3	63.93	73.09	81.11	84.21	82.83	77.30	71.20	63.46	50.68	28.97	-6.20
2333.6	92.6(90.6)	88.9	63.19	71.99	80.55	84.58	84.14	79.14	72.90	65.67	53.95	34.25	2.54
2121.3	93.1(91.8)	89.5	62.49	70.85	79.34	84.06	85.46	81.59	75.42	68.58	57.65	39.47	10.37
1958.1	94.3(91.7)	89.3	61.87	70.22	77.40	83.51	85.29	82.18	76.62	70.06	59.75	42.73	15.65
1831.7	94.9(92.0)	89.7	62.09	69.98	77.34	83.82	85.46	83.01	77.72	71.40	61.56	45.45	19.93
1732.1	94.8(91.8)	89.5	61.60	69.64	77.42	83.54	84.98	82.91	78.17	72.03	62.56	47.16	22.86
1655.1	94.2(91.1)	88.9	61.99	69.67	77.07	83.31	84.12	82.06	77.65	71.64	62.46	47.61	24.25
1596.3	94.1(91.0)	88.7	62.10	69.61	76.85	83.08	84.10	81.75	77.48	71.58	62.62	48.19	25.56
1552.9	94.0(90.7)	88.4	62.34	69.76	76.37	82.43	83.82	81.60	77.72	71.90	63.10	48.99	26.99
1523.1	93.6(90.3)	88.0	62.07	69.43	76.09	82.15	83.43	80.97	77.17	71.41	62.72	48.82	27.08
1505.7	93.9(90.6)	88.3	61.71	69.63	76.12	82.32	83.89	81.34	77.24	71.51	62.88	49.11	27.59
1500.0	93.5(90.1)	87.7	61.51	68.83	75.67	81.41	83.35	81.02	77.18	71.45	62.85	49.11	27.66
1505.7	93.5(90.1)	87.6	61.47	68.23	75.69	80.46	83.53	81.24	77.03	71.30	62.67	48.89	27.37
1523.1	93.4(90.1)	87.6	60.35	67.52	75.25	80.62	83.21	81.54	76.74	70.98	62.29	48.38	26.65
1552.9	92.8(89.5)	87.1	59.91	66.70	73.97	80.51	82.87	80.92	76.23	70.38	61.58	47.46	25.36
1596.3	92.5(89.4)	86.8	58.47	64.98	72.68	79.61	81.92	81.43	75.49	69.59	60.63	46.20	23.57
1655.1	91.0(87.8)	84.9	58.15	64.06	70.83	77.93	79.71	79.92	74.73	68.73	59.54	44.70	21.34

RUN NUMBER	= 520.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 533.000
SECONDARY TEMPERATURE (R)	= 533.000
PRIMARY PRESSURE RATIO	= 1.000
AREA RATIO	= 1.000
VELOCITY RATIO	= .966
PRIMARY VELOCITY (FT/SEC)	= 903.200
MASS FLOW RATIO	= 1.311
PRIMARY MASS FLOW (LB/SEC)	= .325
THRUST (LBS)	= 26.000
ENVIRONMENTAL TEMPERATURE (R)	= 520.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.290
ENVIRONMENTAL HUMIDITY (PER CENT)	= 73.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .040
INSTRUMENTATION NOISE FLOOR (DB)	= 61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.16879E+00	133.4
500	1.81914E-02	112.6
1000	1.14066E-01	120.6
2000	3.99614E-01	126.0
4000	5.48533E-01	127.4
8000	6.09870E-01	127.8
16000	3.35714E-01	125.3
31500	1.46844E-01	121.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	159.2
20000	162.2
40000	165.2
80000	168.2

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	92.5	100.4	103.9	102.7	100.4	95.8	88.9	108.5
20.0	91.5	99.9	104.5	103.3	100.4	95.6	89.6	108.8
25.0	90.5	98.8	104.0	103.5	101.3	96.5	90.7	108.7
30.0	88.6	97.6	103.0	103.8	101.4	96.9	91.5	108.5
35.0	86.7	95.2	101.5	102.8	101.7	97.8	92.8	107.8
40.0	84.2	92.7	99.0	101.8	101.4	97.6	92.8	106.7
45.0	82.1	90.4	97.1	84.1	101.8	98.3	93.3	104.9
50.0	81.1	89.2	96.0	99.9	100.9	97.6	93.5	105.4
55.0	80.6	87.6	94.6	98.4	99.6	97.1	93.4	104.3
60.0	80.5	87.5	93.9	97.6	98.6	96.7	93.2	103.6
65.0	79.8	87.2	93.1	96.7	97.7	96.5	93.4	103.0
70.0	80.3	86.8	92.7	96.0	97.1	95.9	92.9	102.4
75.0	79.6	86.5	91.8	95.4	96.4	95.4	92.7	101.8
80.0	79.6	85..	91.5	95.1	96.2	95.4	92.6	101.6
85.0	78.3	85.4	90.8	94.5	95.8	94.7	92.2	101.1
90.0	78.3	84.8	90.5	93.9	95.3	94.3	91.8	100.6
95.0	77.6	84.2	89.7	93.1	95.3	94.0	91.4	100.2
100.0	77.1	83.8	89.3	92.8	95.3	93.8	91.1	100.0
105.0	76.6	83.3	89.1	92.7	95.0	93.4	90.7	99.7
110.0	76.4	82.1	88.3	92.5	94.9	93.0	90.2	99.5
115.0	75.8	81.1	87.2	91.8	94.4	92.7	89.9	98.9

MODEL THRUST = 26.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 18.0	35.1	72.1	144.2	288.4	576.9	1135.7	2271.5	4506.9	9013.9	18027.8
9799.0	91.7(81.2)	82.2	66.03	74.48	77.96	76.46	73.26	66.31	53.85	38.13	9.54	-41.28	-124.43
4385.7	95.1(84.4)	85.0	68.06	76.42	80.99	79.54	75.99	69.49	59.21	46.58	24.22	-14.97	-78.62
3549.3	88.0(87.1)	86.8	68.87	77.15	82.35	81.62	78.91	72.66	63.46	52.67	34.00	1.71	-50.37
3000.0	90.0(88.8)	88.0	68.48	77.46	82.86	83.50	80.66	74.86	66.69	57.02	40.78	13.02	-31.47
2615.2	91.6(90.1)	88.4	67.73	76.25	82.53	83.66	82.24	77.19	69.77	61.03	46.48	21.90	-17.26
2333.4	92.2(90.5)	88.3	66.22	74.78	80.97	83.71	82.95	78.16	71.14	63.01	49.71	27.46	-7.81
2121.3	92.2(90.2)	87.1	65.01	73.29	79.91	80.68	84.26	79.84	72.82	65.16	52.80	32.29	-.04
1958.1	93.5(91.4)	88.5	64.70	72.81	79.51	83.31	84.08	79.99	73.96	66.66	55.02	35.86	5.78
1831.7	93.3(90.9)	88.0	64.81	71.79	78.71	82.42	83.40	80.15	74.62	67.60	56.52	38.41	10.08
1732.1	93.2(90.6)	87.7	65.13	72.12	78.56	82.13	82.84	80.31	75.07	68.27	57.62	40.33	13.34
1655.1	93.2(90.4)	87.5	64.84	72.20	78.13	81.58	82.16	80.47	75.84	69.21	58.90	42.24	16.36
1596.3	93.0(90.2)	87.3	65.67	72.10	78.07	81.28	82.10	80.29	75.74	69.23	59.19	43.01	17.94
1552.9	92.4(89.8)	86.9	65.22	72.09	77.36	80.92	81.65	79.89	75.86	69.44	59.58	43.77	19.29
1523.1	92.8(89.8)	86.9	65.39	71.44	77.26	80.75	81.63	80.26	75.86	69.51	59.79	44.22	20.16
1505.7	92.5(89.4)	86.5	64.12	71.25	76.62	80.25	81.35	79.64	75.70	69.40	59.75	44.33	20.50
1500.0	92.0(89.0)	86.0	64.15	70.66	76.35	79.64	80.91	79.26	75.31	69.02	59.39	44.02	20.27
1505.7	91.7(88.6)	85.6	63.46	70.09	75.54	78.92	80.80	78.93	74.88	68.58	58.93	43.51	19.68
1523.1	91.4(88.4)	85.3	62.89	69.52	75.03	78.41	80.70	78.62	74.44	68.09	58.37	42.80	18.74
1552.9	90.9(87.9)	84.8	62.22	68.86	74.35	77.70	80.22	78.03	73.80	67.40	57.54	41.73	17.25
1596.3	90.2(87.3)	84.3	61.72	67.41	73.65	77.77	79.89	77.39	73.06	66.56	56.51	40.34	15.26
1655.1	89.2(86.4)	83.4	60.87	66.18	72.24	76.69	79.08	76.70	72.29	65.65	55.35	38.69	12.80

RUN NUMBER	= 521.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 532.000
SECONDARY TEMPERATURE (R)	= 533.000
PRIMARY PRESSURE RATIO	= 1.322
AREA RATIO	= 1.000
VELOCITY RATIO	= 1.474
PRIMARY VELOCITY (FT/SEC)	= 701.771
MASS FLOW RATIO	= 1.925
PRIMARY MASS FLOW (LB/SEC)	= .308
THRUST (LBS)	= 30.500
ENVIRONMENTAL TEMPERATURE (R)	= 520.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.290
ENVIRONMENTAL HUMICITY (PER CENT)	= 73.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .056
INSTRUMENTATION NOISE FLOOR (DB)	= 64.590

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.852268+00	135.6
500	4.008485E-02	116.0
1000	2.47238E-01	123.9
2000	8.24381E-01	129.2
4000	9.35395E-01	129.7
8000	8.24423E-01	129.2
16000	4.93453E-01	126.9
31500	2.87280E-01	124.6

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.8
20000	163.8
40000	166.8
80000	169.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	96.5	104.0	107.9	105.9	101.5	96.0	90.4	111.7
20.0	95.5	103.9	108.4	106.2	102.1	96.9	91.9	112.1
25.0	93.9	102.6	107.7	106.3	102.8	98.1	92.9	111.8
30.0	92.4	100.6	106.4	106.0	102.9	98.3	93.9	111.0
35.0	90.1	98.6	104.4	105.2	103.6	99.4	95.2	110.2
40.0	87.8	96.0	102.1	103.0	103.7	100.4	96.4	109.3
45.0	85.4	94.0	100.1	102.5	102.7	99.7	95.9	108.0
50.0	84.1	91.9	98.2	101.1	102.1	99.5	96.4	107.1
55.0	82.6	90.0	96.9	99.8	101.1	99.0	96.0	106.1
60.0	83.0	89.7	95.8	98.8	100.1	98.5	96.2	105.3
65.0	83.0	89.4	95.2	98.0	99.0	98.1	96.2	104.7
70.0	82.6	89.4	94.5	97.1	98.2	97.6	95.9	104.0
75.0	82.8	88.6	93.9	96.5	97.7	97.2	96.0	103.6
80.0	81.9	88.1	93.5	96.1	97.2	96.7	95.6	103.2
85.0	81.3	87.6	92.9	95.6	96.8	96.2	95.2	102.7
90.0	80.8	87.0	92.4	95.4	96.5	95.8	94.8	102.3
95.0	80.6	86.7	91.9	94.7	96.1	95.5	94.4	101.9
100.0	79.9	86.4	91.3	94.0	95.8	95.2	94.0	101.5
105.0	78.9	85.6	90.9	94.1	95.6	94.9	93.6	101.2
110.0	78.6	84.9	90.7	93.9	95.4	94.6	93.3	101.0
115.0	78.8	84.0	90.2	93.5	95.2	94.4	93.0	100.7

MODEL THRUST = 30.500 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 19.5	39.1	78.1	156.2	312.4	624.8	1230.1	2460.2	4881.4	9762.8	19525.6
5795.6	83.6(83.4)	84.8	69.92	77.39	81.23	78.89	73.48	65.39	53.67	36.80	8.19	-47.83	-135.32
4385.7	87.3(86.7)	87.6	71.38	79.77	84.13	81.70	76.90	69.69	60.06	46.56	22.66	-18.95	-85.88
354	89.8(89.0)	89.1	71.64	80.29	85.33	83.77	79.60	73.32	64.36	52.86	32.95	-1.30	-56.04
3000.0	91.5(90.3)	89.8	71.54	79.75	85.50	84.90	81.38	75.37	67.75	57.57	40.28	-10.87	-35.86
2615.2	93.2(91.8)	90.1	70.52	79.00	84.70	85.40	83.32	77.98	70.94	61.68	46.22	20.20	-20.93
2333.6	94.3(92.6)	90.1	69.16	77.31	83.42	85.08	84.46	80.18	73.69	65.10	50.99	27.44	-9.57
2121.3	95.3(92.4)	89.6	67.59	76.70	82.23	84.48	84.39	80.40	74.32	66.24	53.13	31.46	-2.47
1958.1	94.6(92.4)	89.3	67.02	74.73	81.03	83.87	84.49	81.03	75.81	68.13	55.86	35.56	4.01
1831.2	94.9(92.2)	88.9	66.11	74.03	80.30	83.13	84.16	81.21	76.24	68.85	57.13	38.01	8.31
1732.1	94.5(91.9)	88.6	66.94	73.63	79.87	82.64	83.63	81.20	77.09	69.94	58.69	40.44	12.19
1655.1	94.6(91.5)	88.4	67.34	73.76	79.48	82.19	82.98	81.27	77.62	70.66	59.77	42.20	15.07
1596.3	94.2(91.2)	88.1	67.30	74.08	79.11	81.63	82.51	81.13	77.78	70.95	60.35	43.30	17.03
1552.0	94.2(91.1)	87.9	67.72	73.49	78.78	81.27	82.26	81.03	78.16	71.44	61.04	44.37	18.73
1523.1	94.0(90.8)	87.6	66.95	73.16	78.53	81.07	81.94	80.73	77.98	71.33	61.08	44.67	19.46
1505.7	93.7(90.4)	87.2	66.44	72.73	77.99	80.68	81.61	80.32	77.69	71.08	60.91	44.65	19.70
1500.0	93.4(90.1)	86.9	66.64	72.21	77.55	80.48	81.32	79.97	77.36	70.77	60.63	44.42	19.56
1505.7	92.9(89.6)	86.4	65.78	71.42	77.01	79.77	80.91	79.59	76.94	70.33	60.16	43.90	18.95
1523.1	92.3(89.1)	85.9	64.96	71.48	76.37	78.93	80.51	79.18	76.41	69.76	59.51	43.10	17.89
1552.0	91.7(88.6)	85.5	63.74	70.93	75.80	78.92	80.14	78.49	75.77	69.05	58.65	41.98	16.34
1596.3	91.2(88.1)	85.0	63.22	69.58	75.31	78.41	79.68	78.17	75.19	68.37	57.76	40.71	14.44
1655.1	90.4(87.5)	84.3	63.19	68.34	74.56	77.69	79.14	77.62	74.41	67.45	56.56	38.99	11.87

RUN NUMBER	
AXIAL POSITION OF PRIMARY NRT. SECONDARY (INS.)	= 522.000
PRIMARY TEMPERATURE (R)	= -4.100
SECONDARY TEMPERATURE (R)	= 531.000
PRIMARY PRESSURE RATIO	= 530.000
AREA RATIO	= 2.224
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= .399
MASS FLOW RATIO	= 1143.984
PRIMARY MASS FLOW (LB/SEC)	= 1.010
THRUST (LBS)	= .330
ENVIRONMENTAL TEMPERATURE (R)	= 20.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 521.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.250
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 68.000
INSTRUMENTATION NOISE FLOOR (DB)	= .028
	= 58.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.184031E+00	133.4
500	7.383971E-03	108.7
1000	4.900598E-02	116.9
2000	2.474088E-01	123.9
4000	6.944331E-01	128.4
8000	7.414826E-01	128.7
16000	3.136231E-01	125.0
31500	1.304995E-01	121.2

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.4
20000	163.4
40000	166.4
80000	169.4

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	86.6	94.8	100.7	100.9	98.7	91.3	84.2	105.6
20.0	85.7	94.7	101.1	101.3	98.6	91.3	85.7	105.9
25.0	85.0	93.7	100.7	101.7	98.9	91.8	86.7	105.9
30.0	83.7	92.8	100.4	102.3	99.8	92.9	88.0	106.3
35.0	82.0	91.0	98.8	101.9	100.6	94.0	89.1	106.0
40.0	80.5	89.4	97.3	101.7	101.0	95.1	90.1	105.8
45.0	79.8	88.1	95.8	101.1	102.0	96.8	91.4	106.0
50.0	79.0	86.8	94.4	100.6	101.7	97.4	91.8	105.6
55.0	78.0	85.9	93.7	100.4	101.4	97.4	92.4	105.4
60.0	78.1	85.6	92.9	99.7	100.7	97.3	93.3	104.9
65.0	78.1	85.4	92.5	99.2	100.0	96.4	92.4	104.3
70.0	77.3	85.3	91.6	98.4	99.3	95.7	92.6	103.6
75.0	77.3	85.1	91.4	98.2	99.2	96.0	92.8	103.5
80.0	76.8	84.9	90.8	97.9	98.6	95.7	92.6	103.1
85.0	76.4	84.1	90.7	97.5	98.3	95.6	92.7	102.8
90.0	76.4	83.9	90.6	96.5	98.2	95.2	92.5	102.5
95.0	75.9	83.4	90.3	95.4	97.4	94.8	91.9	101.7
100.0	75.7	82.6	90.1	95.9	96.8	94.6	91.6	101.6
105.0	75.7	82.6	88.7	95.5	96.5	94.0	91.3	101.1
110.0	75.0	81.9	87.6	95.0	95.6	94.9	91.0	100.8
115.0	75.0	81.2	85.6	93.0	93.8	93.2	89.6	99.0

MODEL THRUST = 20.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	15.8	OCTAVE BAND SOUND PRESSURE LEVELS 31.6	63.2	126.5	253.0	506.0	996.1	1992.2	3952.8	7905.7	15811.4
8999.0	79.6	79.3	80.9	81.93	78.05	75.88	73.90	72.92	63.56	51.73	37.74	12.23	-33.65	-109.92
4385.7	83.3	82.5	83.3	63.39	72.38	78.72	78.80	75.58	66.80	57.55	46.23	20.20	-9.25	-67.69
3549.3	85.9	84.8	85.1	64.57	73.20	80.23	81.06	77.80	69.49	61.51	51.78	35.00	5.74	-42.13
3000.0	86.4	87.2	87.0	64.69	73.79	81.36	83.19	80.26	72.32	65.03	56.34	41.69	16.49	-24.43
2615.2	90.3	88.9	87.8	64.20	73.16	80.99	83.99	82.35	74.82	67.81	59.85	46.70	24.35	-11.71
2333.6	91.9	90.2	88.7	63.70	72.58	80.50	84.74	83.80	77.10	70.20	62.78	50.71	30.45	-2.05
2121.3	93.8	91.7	89.6	63.91	72.08	79.79	85.01	85.65	79.74	72.62	65.60	54.36	35.67	5.65
1950.1	94.3	92.2	89.9	63.71	71.91	79.08	85.16	86.04	81.15	73.92	67.20	56.60	39.11	11.36
1831.2	95.0	92.6	90.4	63.27	71.21	78.00	85.57	86.41	81.73	75.28	68.81	58.70	42.15	16.00
1732.1	95.3	92.7	90.3	63.91	71.36	78.43	85.43	86.16	82.24	76.79	70.50	60.77	44.96	20.06
1695.1	95.1	92.6	90.1	64.31	71.62	78.62	85.32	85.89	81.73	76.39	70.26	60.83	45.58	21.46
1596.3	95.0	92.1	89.7	63.82	71.79	78.06	84.85	85.47	81.42	76.98	70.95	61.75	46.94	23.76
1552.9	95.3	92.6	89.9	64.06	71.82	78.14	84.26	85.68	81.36	77.42	71.68	62.45	47.96	25.32
1523.1	95.0	92.0	89.7	63.71	71.84	77.70	84.68	85.21	81.78	77.49	71.60	62.68	48.41	26.16
1509.7	95.0	91.9	89.5	63.65	71.09	77.72	84.38	85.00	81.80	77.71	71.85	63.00	48.86	26.83
1500.0	94.8	91.7	89.1	63.48	70.96	77.48	83.44	84.97	81.46	77.55	71.71	62.88	48.78	26.82
1509.7	94.0	90.9	88.4	62.88	70.42	77.20	82.34	84.10	81.02	76.91	71.05	62.20	48.06	26.03
1523.1	93.6	90.5	88.1	62.58	69.89	77.01	82.69	83.68	80.88	76.46	70.58	61.66	47.39	25.13
1552.9	92.9	89.8	87.5	62.41	69.39	75.41	82.18	82.97	79.97	75.92	69.88	60.85	46.46	23.83
1596.3	92.4	89.3	86.9	61.56	68.38	74.82	81.44	81.82	80.62	75.34	69.31	60.11	45.30	22.12
1695.1	90.3	87.2	84.7	61.23	67.61	71.72	79.13	79.68	78.49	73.56	67.42	57.96	42.75	18.42

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 523.000
PRIMARY TEMPERATURE (R)	= -4.100
SECONDARY TEMPERATURE (R)	= 522.000
PRIMARY PRESSURE RATIO	= 525.000
AREA RATIO	= 1.808
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= .949
MASS FLOW RATIO	= 893.831
PRIMARY MASS FLOW (LB/SEC)	= 1.923
THRUST (LBS)	= .342
ENVIRONMENTAL TEMPERATURE (R)	= 31.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 521.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.250
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 38.000
INSTRUMENTATION NOISE FLOOR (DB)	= .036
	= 60.584

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.68409E+00	134.0
500	2.42845E-02	113.9
1000	1.51265E-01	121.8
2000	4.66719E-01	126.7
4000	6.69707E-01	128.3
8000	6.90480E-01	128.4
16000	3.42708E-01	125.3
31500	1.38923E-01	121.4

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	159.0
20000	162.0
40000	165.1
80000	168.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	93.0	100.6	102.6	100.1	97.5	90.7	82.6	106.9
20.0	92.3	100.4	104.1	102.0	98.8	91.3	84.0	108.0
25.0	91.2	99.9	104.3	102.5	99.4	92.0	85.1	108.2
30.0	89.4	98.5	103.4	103.0	100.4	93.7	86.8	108.0
35.0	88.4	96.5	101.9	102.6	100.6	94.4	89.4	107.3
40.0	86.7	94.8	100.7	102.3	101.2	95.6	89.8	107.0
45.0	84.8	92.9	99.2	101.5	101.0	95.9	90.3	106.3
50.0	83.9	91.7	97.6	101.6	100.8	96.1	91.2	105.6
55.0	82.3	90.4	97.1	100.9	100.7	96.3	92.2	105.4
60.0	82.3	89.8	95.7	99.4	100.2	96.5	92.9	104.8
65.0	81.9	88.7	95.1	98.2	99.1	96.5	92.9	104.0
70.0	81.0	88.1	93.7	97.2	98.3	96.1	93.1	102.7
75.0	81.3	88.2	93.7	96.8	97.9	95.8	92.2	102.9
80.0	80.8	87.6	93.2	96.5	97.6	95.5	92.4	102.6
85.0	79.8	86.9	92.4	96.0	97.5	96.2	92.9	102.6
90.0	80.0	86.6	92.1	95.5	97.7	96.1	93.1	102.5
95.0	79.0	85.8	91.9	95.1	97.4	95.9	92.4	102.1
100.0	78.6	85.2	91.4	94.6	97.1	95.9	92.6	101.8
105.0	77.7	84.9	91.0	95.1	97.7	96.2	92.8	102.2
110.0	77.7	84.2	90.1	94.6	97.5	96.7	92.6	102.1
115.0	77.5	82.3	88.7	93.8	96.3	96.4	92.2	101.4

MODEL THRUST = 31.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	19.7	OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
				39.4	78.7	157.5	315.0	629.9	1260.2	2480.3	4921.3	9842.5	19685.0
8795.0	78.0(77.7)	79.9	66.42	73.92	75.84	73.05	69.38	59.97	41.85	20.85	-2.17	-56.52	-144.46
4385.7	82.6(82.1)	83.5	68.09	76.18	79.82	77.67	73.51	64.00	51.00	38.41	14.36	-27.51	-94.78
3949.3	85.3(84.7)	85.6	68.89	77.50	81.82	79.87	76.16	67.17	56.41	44.83	24.80	-9.66	-64.67
3888.0	87.8(87.0)	88.8	68.52	77.57	82.41	81.88	78.77	70.66	60.55	50.30	32.90	3.32	-43.65
2618.2	89.4(88.3)	87.3	68.65	76.82	82.15	82.73	80.27	72.86	64.05	54.73	39.18	13.00	-28.32
2333.6	90.9(89.6)	87.9	67.95	76.09	81.91	83.42	81.93	75.22	66.91	58.27	44.07	20.39	-16.81
2121.3	91.7(90.2)	88.0	66.95	74.96	81.27	83.49	82.62	76.55	68.89	60.56	47.38	25.58	-8.51
1956.1	92.3(90.6)	88.0	66.71	74.46	80.35	83.25	83.17	77.34	70.50	62.77	50.37	30.02	-1.68
1831.2	93.1(91.2)	88.3	65.67	73.81	80.47	83.47	83.64	78.46	72.32	64.98	53.11	33.88	4.04
1732.1	93.4(91.3)	88.2	66.15	73.68	79.51	83.11	83.65	79.19	73.65	66.47	55.16	36.81	8.43
1655.1	93.2(90.9)	87.8	66.18	73.00	79.31	82.30	82.93	79.64	74.25	67.25	56.30	38.64	11.39
1596.3	92.4(89.7)	86.7	65.58	72.70	78.29	81.42	82.44	79.57	74.84	67.98	57.32	40.18	13.78
1552.9	92.9(90.4)	87.2	66.09	73.09	78.53	81.52	82.30	79.56	74.25	67.50	57.04	40.28	14.62
1523.1	92.9(90.3)	87.1	65.42	72.57	78.12	81.30	82.23	79.46	74.72	68.04	57.73	41.23	15.91
1505.7	93.1(90.3)	87.1	64.91	72.03	77.50	80.84	82.25	80.21	75.27	68.64	58.41	42.07	17.00
1500.0	93.2(90.4)	87.0	65.10	71.89	77.22	80.50	82.44	80.14	75.55	68.93	58.73	42.43	17.45
1505.7	92.7(90.0)	86.7	64.08	70.94	76.96	80.05	82.12	79.93	74.85	68.21	57.99	41.64	16.58
1523.1	92.3(89.6)	86.2	63.63	70.23	76.33	79.44	81.70	79.42	74.34	67.66	57.35	40.85	15.63
1552.9	92.4(89.8)	86.5	62.91	69.70	75.75	78.78	81.13	78.96	74.86	68.11	57.66	40.90	15.14
1596.3	92.0(89.4)	86.1	62.27	68.74	74.64	77.89	81.04	80.19	74.31	67.45	56.79	39.64	13.25
1655.1	91.0(88.3)	84.9	61.75	66.55	72.96	77.93	80.17	79.48	73.57	66.58	55.63	37.97	10.71

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 524.000
PRIMARY TEMPERATURE (R)	= -4.100
SECONDARY TEMPERATURE (R)	= 526.000
PRIMARY PRESSURE RATIO	= 526.000
AREA RATIO	= 1.322
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= 1.472
MASS FLOW RATIO	= 607.803
PRIMARY MASS FLOW (LB/SEC)	= 2.778
THRUST (LBS)	= .308
ENVIRONMENTAL TEMPERATURE (R)	= 37.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 521.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.250
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 68.000
INSTRUMENTATION NOISE FLOOR (DB)	= .050
	= 63.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.77916E+00	138.8
500	5.22501E-02	117.2
1000	3.36882E-01	125.3
2000	1.00049E+00	130.0
4000	1.20749E+00	130.8
8000	1.09764E+00	130.4
16000	6.75973E-01	128.3
31500	4.08440E-01	126.1

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	161.1
20000	164.1
40000	167.1
80000	170.1

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	96.9	104.2	106.3	104.1	99.7	94.6	87.7	110.5
20.0	96.2	104.2	107.4	105.2	101.2	95.6	89.3	111.3
25.0	94.7	103.5	107.5	105.9	101.5	95.7	90.2	111.4
30.0	93.3	102.8	107.3	106.3	102.8	97.0	91.5	111.5
35.0	91.8	100.3	106.1	106.1	103.5	98.5	93.8	111.0
40.0	89.6	98.6	104.2	105.3	103.4	99.1	94.6	110.0
45.0	88.4	96.4	102.5	104.4	103.8	100.1	96.0	109.5
50.0	85.7	93.9	100.2	102.3	102.6	99.6	95.8	107.9
55.0	85.4	92.7	98.8	101.7	102.5	100.0	97.0	107.6
60.0	84.5	91.9	98.0	100.6	101.5	99.4	96.6	106.7
65.0	83.8	91.2	96.8	99.6	100.9	99.6	97.6	106.3
70.0	83.7	91.1	96.2	99.4	100.8	99.8	98.1	106.3
75.0	83.7	90.7	95.6	98.7	99.8	99.4	98.0	105.7
80.0	83.8	90.0	95.4	98.4	99.8	99.2	98.0	105.5
85.0	82.9	89.5	95.0	98.1	99.6	99.0	97.8	105.3
90.0	82.5	89.1	94.6	98.0	99.4	98.7	97.5	105.0
95.0	82.0	88.3	94.1	97.6	99.2	98.5	97.1	104.7
100.0	81.4	88.0	93.7	97.2	99.0	98.2	96.8	104.4
105.0	80.4	87.6	93.4	97.2	98.9	97.9	96.4	104.2
110.0	80.0	86.8	93.0	96.9	98.6	97.6	96.1	103.9
115.0	79.8	85.4	91.9	96.4	98.5	97.3	95.8	103.6

MODEL THRUST = 37.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 21.5	43.0	86.0	172.0	344.1	688.2	1354.9	2709.7	5376.5	10752.9	21505.8
9795.0	91.8(81.4)	82.7	69.48	76.78	78.80	76.12	70.64	62.59	48.81	30.42	-2.80	-60.88	-153.76
4385.7	85.8(85.4)	86.0	71.25	79.24	82.34	79.78	74.98	67.12	55.56	40.90	15.04	-29.64	-100.66
3849.3	88.6(87.9)	88.8	71.63	80.36	84.30	82.41	77.39	69.73	60.01	47.59	26.08	-10.65	-68.70
3000.0	90.9(90.1)	89.6	71.66	81.09	85.52	84.39	80.29	72.98	63.83	52.86	34.22	2.71	-46.82
2615.2	92.7(91.6)	90.1	71.32	79.80	85.52	85.36	82.31	75.95	68.16	58.22	41.58	13.73	-29.83
2333.6	93.6(92.3)	90.1	70.16	79.06	84.65	85.57	83.25	77.77	70.50	61.30	46.13	20.95	-18.24
2121.3	94.9(93.3)	90.3	69.76	77.71	83.82	85.56	84.51	79.76	73.13	64.49	50.43	27.27	-11.43
1958.1	94.5(92.7)	89.3	67.76	75.91	82.16	84.21	84.05	80.12	73.97	65.77	52.56	30.95	-2.42
1831.2	95.3(93.3)	89.6	67.99	75.34	81.43	84.21	84.57	81.18	76.02	68.15	55.61	35.20	3.90
1732.1	95.1(92.9)	89.2	67.62	74.99	81.11	83.50	84.10	81.17	76.28	68.68	56.65	37.19	7.32
1655.1	95.4(92.9)	89.1	67.34	74.65	80.29	82.91	83.89	81.79	77.80	70.40	58.77	40.04	11.37
1596.3	95.9(93.3)	89.4	67.51	74.90	80.03	83.08	84.17	82.38	78.79	71.55	60.22	42.05	14.30
1552.9	95.5(92.8)	89.0	67.75	74.74	79.65	82.64	83.39	82.23	78.98	71.65	60.75	43.00	15.91
1523.1	95.7(92.9)	89.0	68.06	74.21	79.60	82.46	83.57	82.22	79.20	72.16	61.22	43.74	17.12
1505.7	95.6(92.8)	88.9	67.27	73.79	79.25	82.33	83.51	82.13	79.15	72.15	61.30	43.99	17.64
1500.0	95.3(92.6)	88.7	66.83	73.42	78.91	82.21	83.34	81.86	78.86	71.88	61.06	43.80	17.54
1505.7	95.0(92.2)	88.3	66.29	72.63	78.43	81.76	83.09	81.64	78.42	71.42	60.57	43.26	16.91
1523.1	94.4(91.8)	87.9	65.65	72.26	77.46	81.27	82.81	81.23	77.97	70.93	59.98	42.51	15.89
1552.9	94.1(91.4)	87.5	64.51	71.62	77.42	81.09	82.51	80.73	77.37	70.24	59.14	41.39	14.30
1596.3	93.5(90.8)	86.9	63.84	70.57	76.78	80.54	81.97	80.13	76.76	69.52	58.20	40.03	12.27
1655.1	92.8(90.2)	86.2	63.31	68.88	75.36	79.79	81.54	79.48	76.04	68.64	57.01	38.28	9.61

RUN NUMBER	= 525.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 525.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 2.224
AREA RATIO	= 6.856
VELOCITY RATIO	= .400
PRIMARY VELOCITY (FT/SEC)	= 1137.502
MASS FLOW RATIO	= 1.951
PRIMARY MASS FLOW (LB/SEC)	= .337
THRUST (LBS)	= 24.500
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.250
ENVIRONMENTAL HUMIDITY (PER CENT)	= 68.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .028
INSTRUMENTATION NOISE FLOOR (DB)	= 50.594

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.14274E+00	133.3
500	1.10126E-02	110.4
1000	6.27367E-02	118.0
2000	2.94649E-01	124.7
4000	8.07054E-01	129.1
8000	6.77626E-01	128.3
16000	1.89866E-01	122.8
31500	9.97972E-02	120.0

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	159.4
20000	162.4
40000	165.4
80000	168.4

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	89.9	97.0	101.6	101.2	96.8	87.1	82.5	105.9
20.0	88.7	96.7	102.4	102.3	97.9	88.6	84.4	106.7
25.0	87.6	95.0	101.8	102.6	98.5	89.4	85.7	106.6
30.0	85.4	94.4	101.4	102.6	98.7	90.5	87.2	106.5
35.0	84.1	92.7	100.0	102.3	99.5	92.1	87.8	106.1
40.0	82.7	90.7	98.3	101.7	100.6	94.2	89.5	105.8
45.0	81.3	88.7	96.2	101.0	101.2	95.9	90.9	105.5
50.0	79.7	87.3	94.6	100.6	101.3	95.8	91.3	105.3
55.0	79.0	86.6	93.9	100.6	101.1	95.4	91.7	105.1
60.0	78.6	85.5	93.0	100.4	100.7	94.8	92.1	104.7
65.0	78.3	85.7	92.6	100.0	100.0	94.2	91.8	104.2
70.0	78.6	85.3	92.0	99.6	99.6	94.2	91.9	103.9
75.0	78.0	84.9	91.3	99.1	99.2	93.5	91.7	103.4
80.0	78.1	84.6	90.7	98.9	98.4	93.1	91.4	103.0
85.0	77.5	84.2	90.8	98.8	97.8	92.7	91.1	102.6
90.0	77.5	84.3	90.9	98.0	98.0	92.9	90.7	102.4
95.0	76.3	83.7	91.0	96.9	97.1	92.4	90.2	101.5
100.0	76.1	82.7	90.4	96.6	96.0	92.2	89.9	101.0
105.0	75.5	82.1	89.8	96.6	95.6	91.7	89.5	100.7
110.0	74.8	80.9	88.5	96.1	94.6	91.7	89.1	100.1
115.0	74.6	79.9	86.9	94.1	93.2	90.5	88.7	98.6

MODEL THRUST = 24.500 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 17.5	35.0	70.0	140.0	280.0	560.0	1102.5	2205.0	4375.0	8750.0	17500.0
5705.6	78.3(77.9)	80.0	64.30	71.39	75.92	75.23	69.96	58.02	48.05	32.74	4.88	-44.79	-126.35
4385.7	82.7(82.0)	83.2	65.50	73.48	79. 1	78.88	73.83	62.83	54.56	42.24	20.43	-17.89	-80.34
3549.3	85.2(84.3)	84.9	66.23	73.64	80.36	81.07	76.41	65.96	58.94	48.40	30.18	-1.41	-52.52
3000.0	87.2(86.1)	86.3	65.55	74.48	81.51	82.56	78.17	68.85	62.71	53.36	37.47	10.31	-33.35
2615.2	89.0(87.7)	87.1	65.47	74.04	81.27	83.47	80.29	71.83	65.19	56.63	42.41	18.35	-20.09
2333.6	90.9(89.4)	87.7	64.97	72.97	80.66	83.82	82.44	75.13	68.27	60.32	47.31	25.51	-9.12
2121.3	92.6(90.7)	88.3	64.43	71.84	79.30	84.00	83.86	77.74	70.76	63.26	51.16	31.08	-.68
1958.1	93.1(91.2)	88.7	63.50	71.14	78.38	84.33	84.77	78.45	72.17	65.01	53.61	34.84	5.30
1831.2	93.7(91.6)	89.1	64.33	71.03	78.29	84.80	85.13	78.73	73.38	66.49	55.64	37.89	10.07
1732.1	94.0(91.7)	89.3	63.47	70.41	77.88	85.19	85.21	78.70	74.33	67.65	57.22	40.27	13.79
1655.1	94.0(91.6)	89.2	63.57	71.01	77.87	85.21	84.97	78.48	74.69	68.17	58.07	41.74	16.31
1596.3	94.2(91.7)	89.2	64.18	70.91	77.62	85.13	84.92	78.83	75.09	68.70	58.85	43.00	18.34
1552.9	94.0(91.4)	88.9	63.82	70.79	77.14	84.83	84.74	78.19	75.18	68.89	59.22	43.72	19.67
1523.1	93.7(91.0)	88.7	64.15	70.58	76.73	84.84	84.13	78.24	75.12	68.89	59.36	44.09	20.44
1505.7	93.5(90.8)	88.4	63.61	70.29	76.48	84.80	83.60	77.92	74.91	68.71	59.26	44.13	20.72
1500.0	93.5(90.9)	88.2	63.65	70.40	77.04	84.87	83.85	78.15	74.54	68.36	58.92	43.84	20.51
1505.7	92.7(90.0)	87.3	62.38	69.79	77.08	82.70	82.96	77.59	74.00	67.81	58.35	43.22	19.81
1523.1	91.4(88.1)	86.6	62.09	68.10	76.34	82.51	81.46	77.11	73.42	67.34	57.85	42.58	18.94
1552.9	91.2(88.5)	86.2	61.32	67.94	75.47	82.38	81.11	76.64	73.00	66.70	57.04	41.54	17.49
1596.3	90.2(87.4)	85.3	60.44	66.40	74.12	81.40	79.91	76.38	72.27	65.88	56.03	40.18	15.66
1665.1	88.4(85.7)	83.4	59.90	65.19	72.12	79.33	78.19	74.82	71.50	64.98	54.98	38.59	13.12

RUN NUMBER	= 526.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 523.000
SECONDARY TEMPERATURE (R)	= 525.000
PRIMARY PRESSURE RATIO	= 1.400
AREA RATIO	= 4.456
VELOCITY RATIO	= .948
PRIMARY VELOCITY (FT/SEC)	= 804.647
MASS FLOW RATIO	= 3.903
PRIMARY MASS FLOW (LB/SEC)	= .462
THRUST (LBS)	= 46.000
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.250
ENVIRONMENTAL HUMIDITY (PER CENT)	= 68.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .040
INSTRUMENTATION NOISE FLOOR (DB)	= 61.577

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.302018+00	133.6
500	6.926586-02	118.4
1000	3.039566-01	124.8
2000	5.726716-01	127.6
4000	5.815396-01	127.6
8000	4.540086-01	126.6
16000	2.185666-01	123.4
31500	1.020036-01	120.1

OVERALL SOUND POWER LEVEL*SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	157.0
20000	160.0
40000	163.0
80000	166.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.6	103.8	103.2	98.6	94.4	86.8	81.9	108.0
20.0	97.2	104.0	104.5	100.2	96.0	88.2	83.9	108.7
25.0	98.3	103.3	104.8	101.3	97.4	89.9	85.1	108.8
30.0	94.2	101.3	103.9	101.9	98.2	91.1	86.8	108.1
35.0	93.0	99.8	102.9	101.9	98.8	92.0	87.1	107.5
40.0	90.6	97.3	101.2	101.4	99.1	93.5	88.9	106.5
45.0	89.2	95.5	100.2	101.5	99.6	94.7	90.5	106.2
50.0	87.7	94.1	98.8	100.1	99.0	94.8	90.9	105.2
55.0	86.4	93.0	97.3	99.0	98.7	95.1	91.7	104.4
60.0	86.0	92.3	96.6	98.4	97.7	94.9	91.6	103.8
65.0	85.0	91.5	95.5	97.5	97.4	95.0	91.9	103.2
70.0	85.2	91.3	95.3	97.4	97.3	94.9	92.0	103.1
75.0	84.5	90.2	94.7	96.9	96.6	94.2	91.4	102.5
80.0	84.2	89.8	94.0	96.4	96.4	94.5	91.2	102.2
85.0	84.0	89.7	93.9	96.1	96.0	94.0	91.2	101.9
90.0	83.8	88.8	92.9	95.2	96.0	94.0	91.2	101.5
95.0	82.8	88.3	93.0	95.1	95.7	93.7	90.8	101.3
100.0	82.3	88.2	92.7	94.6	95.6	93.9	90.9	101.1
105.0	81.3	87.4	92.3	94.5	95.1	93.6	90.8	100.8
110.0	81.3	86.1	91.9	94.4	94.9	93.1	90.2	100.4
115.0	81.1	85.5	91.4	94.1	94.6	93.0	88.1	100.0

MODEL THRUST = 46.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE BAND SOUND PRESSURE LEVELS 24.0	45.0	95.9	191.8	383.7	767.3	1510.7	3021.4	5994.8	11989.6	23979.2
3795.8	78.3(78.1)	79.6	70.29	75.47	74.69	69.85	64.10	53.11	40.26	19.99	-16.39	-79.28	-178.42	
4305.7	80.9(80.6)	82.5	71.20	78.08	78.42	73.78	68.56	58.18	47.99	31.92	3.66	-44.66	-120.41	
3549.3	84.2(83.7)	84.5	72.27	79.24	80.64	76.82	72.15	62.53	52.95	39.38	15.93	-23.75	-85.63	
3000.0	86.3(85.6)	85.2	71.62	78.71	81.21	78.99	74.56	65.67	57.28	45.34	25.06	-8.94	-61.71	
2615.2	87.6(86.8)	85.8	71.55	78.34	81.40	80.16	76.53	68.13	59.75	48.96	30.89	.87	-45.52	
2333.6	88.7(87.7)	85.7	70.18	76.89	80.89	80.73	77.91	70.86	63.11	53.16	36.72	9.60	-32.11	
2121.3	90.1(88.9)	86.2	69.57	75.89	80.54	81.63	79.32	73.09	66.05	56.73	41.51	16.59	-21.60	
1958.1	90.4(89.0)	85.8	68.76	75.15	79.50	81.00	79.46	74.03	67.56	58.71	44.43	21.19	-14.29	
1831.2	90.8(89.2)	85.6	68.11	74.65	78.92	80.45	79.77	75.08	69.20	60.75	47.20	25.28	-8.10	
1732.1	90.6(89.0)	85.4	68.17	74.41	78.71	80.38	79.29	75.49	69.76	61.60	48.63	27.73	-4.01	
1655.1	91.0(89.1)	85.2	67.55	74.06	78.00	79.85	79.39	76.04	70.71	62.78	50.25	30.14	-.31	
1596.3	91.3(89.3)	85.4	68.06	74.17	78.11	80.14	79.61	76.32	71.23	63.48	51.28	31.79	2.30	
1552.9	90.9(88.9)	85.0	67.60	73.30	77.76	79.79	79.18	75.92	70.97	63.34	51.39	32.35	3.58	
1523.1	90.9(88.9)	84.9	67.45	73.06	77.26	79.54	79.16	76.35	71.04	63.51	51.73	32.99	4.73	
1505.7	90.8(88.7)	84.7	67.33	73.04	77.19	79.31	78.90	75.99	71.10	63.62	51.95	33.38	5.41	
1500.0	90.6(88.5)	84.3	67.20	72.25	76.30	78.45	78.90	76.03	71.15	63.68	52.04	33.54	5.66	
1505.7	90.3(88.2)	84.0	66.16	71.67	76.12	78.28	78.58	75.69	70.78	63.29	51.62	33.06	5.38	
1523.1	90.1(87.9)	83.7	65.54	71.50	75.93	77.72	78.37	75.77	70.72	63.18	51.41	32.67	4.40	
1552.9	89.5(87.3)	83.2	64.38	70.51	75.32	77.63	77.71	75.23	70.32	62.69	50.75	31.70	2.96	
1596.3	88.8(86.7)	82.6	64.14	69.81	74.72	77.12	77.22	74.52	69.46	61.70	49.51	30.01	.53	
1655.1	87.7(85.8)	81.9	63.68	68.04	73.92	76.50	76.57	74.05	66.89	59.96	46.42	26.32	-4.14	

RUN NUMBER	= 527.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 528.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 1.327
AREA RATIO	= 4.856
VELOCITY RATIO	= 1.475
PRIMARY VELOCITY (FT/SEC)	= 699.128
MASS FLOW RATIO	= 5.249
PRIMARY MASS FLOW (LB/SEC)	= .304
THRUST (LBS)	= 62.000
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.250
ENVIRONMENTAL HUMIDITY (PER CENT)	= 68.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.164686E+00	137.9
500	1.853396E-01	122.7
1000	9.121606-01	129.6
2000	1.686966+00	132.3
4000	1.375416+00	131.4
8000	1.031076+00	130.1
16000	6.130216-01	127.9
31500	3.609046-01	125.6

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.0
20000	163.0
40000	166.0
80000	169.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	103.0	108.8	109.0	103.2	98.0	93.1	87.5	113.1
20.0	102.1	109.3	109.9	104.5	99.7	94.5	89.8	113.8
25.0	100.5	108.2	109.8	105.2	100.5	94.8	90.5	113.5
30.0	99.1	106.7	109.2	105.8	101.6	96.6	92.4	112.9
35.0	97.2	104.3	107.8	106.4	102.8	98.2	93.9	112.2
40.0	94.5	102.3	106.0	105.8	103.0	98.9	94.9	111.1
45.0	93.0	100.1	104.5	104.7	103.3	99.8	96.2	110.2
50.0	92.0	98.1	102.9	103.8	103.0	100.2	97.0	109.4
55.0	90.3	97.0	101.4	102.5	102.1	99.6	96.8	108.3
60.0	89.5	96.0	100.7	102.1	101.8	99.8	97.0	107.9
65.0	89.6	95.3	99.6	101.0	101.0	99.4	97.3	107.2
70.0	88.7	94.8	99.3	100.2	100.7	99.3	97.1	106.8
75.0	88.3	94.1	98.3	99.9	100.3	99.0	97.4	106.4
80.0	88.4	93.8	98.0	99.9	99.9	98.7	97.2	106.2
85.0	87.7	93.7	97.4	99.3	99.5	98.4	96.9	105.7
90.0	87.0	92.9	97.1	99.1	99.2	98.1	96.5	105.4
95.0	86.8	92.7	96.7	98.7	99.0	97.8	96.2	105.1
100.0	85.3	91.8	96.2	98.4	98.6	97.4	95.8	104.7
105.0	85.5	91.3	96.3	98.2	98.3	97.0	95.5	104.4
110.0	84.3	90.4	95.8	97.7	98.0	96.6	95.0	104.0
115.0	84.8	89.8	95.4	97.8	97.8	96.3	94.6	103.8

MODEL THRUST = 62.000 FULL SCALE THRUST = 20000.000

L=	PNDB=	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 27.8	55.7	111.4	222.7	445.4	890.8	1753.8	3507.7	6959.7	13919.4	27839.8
5799.0	91.0(91.5)	83.2	73.34	79.13	79.17	72.71	69.91	58.83	41.92	18.79	+22.32	-92.23	-280.21
4385.7	85.7(85.5)	86.3	74.85	82.03	82.49	76.71	70.62	62.29	50.51	32.28	.44	-53.19	-135.63
3549.3	88.0(87.6)	87.8	75.18	82.84	84.28	79.30	73.62	65.40	55.31	39.98	13.64	-30.34	-97.43
3000.0	89.9(89.3)	88.7	75.19	82.79	85.14	81.45	76.42	69.27	60.22	46.80	24.07	-13.56	-70.90
2615.2	91.7(90.9)	89.0	74.48	81.57	84.99	83.27	79.01	72.49	63.96	51.87	31.68	-1.52	-51.49
2333.6	92.4(91.5)	88.9	72.74	80.51	84.16	83.71	80.34	74.47	66.71	55.61	37.26	7.32	-37.95
2121.3	93.1(92.0)	88.7	72.12	79.18	83.47	83.53	81.50	76.48	69.63	59.86	42.11	14.62	-26.81
1958.1	93.7(92.4)	88.5	71.79	77.93	82.62	83.35	81.97	77.80	71.41	61.61	45.74	20.13	-18.34
1831.7	93.6(92.1)	88.0	70.66	77.35	81.69	82.60	81.71	77.91	72.12	62.76	47.72	23.58	-12.59
1732.1	94.0(92.4)	88.1	70.36	76.86	81.46	82.70	81.92	78.69	73.10	64.09	49.70	26.70	-7.67
1655.1	94.0(92.2)	87.7	70.85	76.56	80.82	82.06	81.56	78.76	74.00	65.25	51.37	29.26	-3.72
1596.3	94.0(92.2)	87.6	70.31	76.35	80.82	81.58	81.58	79.05	74.26	65.72	52.22	30.79	-1.12
1552.9	94.1(92.2)	87.4	70.09	75.91	80.35	81.49	81.51	79.05	74.97	66.58	53.37	32.44	1.31
1523.1	94.1(92.1)	87.3	70.37	75.42	79.91	81.66	81.23	78.96	74.94	66.65	53.64	33.05	2.46
1505.7	93.9(91.9)	87.0	69.74	75.78	79.38	81.18	80.93	78.77	74.80	66.57	53.67	33.28	3.01
1500.0	93.5(91.5)	86.7	69.11	75.04	79.11	81.03	80.68	78.49	74.47	66.26	53.39	33.08	2.91
1505.7	93.2(91.2)	86.4	68.94	74.79	78.71	80.60	80.47	78.17	74.10	65.87	52.97	32.59	2.31
1523.1	92.6(90.6)	85.8	67.47	73.81	78.12	80.13	79.96	77.65	73.63	65.34	52.32	31.74	1.15
1552.9	92.1(90.1)	85.4	67.21	73.13	78.10	79.75	79.46	77.03	73.06	64.64	51.43	30.50	-.43
1596.3	91.3(89.4)	84.7	65.84	71.95	77.30	79.06	78.91	76.36	72.14	63.59	50.10	28.87	-2.25
1655.1	90.4(88.8)	84.1	66.07	71.83	76.96	78.43	78.37	75.85	71.29	62.54	48.65	26.55	-6.43

RUN NUMBER	= 528.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 531.000
SECONDARY TEMPERATURE (R)	= 532.000
PRIMARY PRESSURE RATIO	= 2.226
AREA RATIO	= 9.788
VELOCITY RATIO	= .400
PRIMARY VELOCITY (FT/SEC)	= 1143.984
MASS FLOW RATIO	= 3.191
PRIMARY MASS FLOW (LB/SEC)	= .347
THRUST (LBS)	= 31.000
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.250
ENVIRONMENTAL HUMIDITY (PER CENT)	= 68.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .020
INSTRUMENTATION NOISE FLOOR (DB)	= 55.600

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	9.390546E-01	129.8
500	1.259528E-02	111.0
1000	5.600286-02	117.5
2000	1.834884E-01	122.6
4000	3.177626-01	125.0
8000	2.282346-01	123.6
16000	1.000496-01	120.0
31500	6.156956-02	117.9

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	154.9
20000	157.9
40000	160.9
80000	163.9

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	89.6	95.5	98.2	96.1	89.8	81.3	79.9	102.1
20.0	89.1	96.1	99.2	97.2	89.8	82.6	81.5	103.0
25.0	88.0	94.9	99.4	98.1	91.0	83.8	82.8	103.1
30.0	86.4	93.6	99.4	98.0	92.6	85.9	84.3	103.4
35.0	85.2	92.1	98.1	99.0	94.0	87.8	85.3	103.0
40.0	83.5	90.2	96.8	98.6	96.5	91.0	87.2	102.9
45.0	82.2	88.9	94.8	98.0	98.5	94.1	89.7	103.2
50.0	80.6	86.9	92.8	97.5	98.4	94.4	90.9	102.8
55.0	80.4	86.1	92.0	96.8	97.3	93.8	90.7	102.0
60.0	79.6	85.5	91.7	96.3	96.3	92.9	89.7	101.3
65.0	79.6	85.3	90.8	96.0	95.2	92.3	89.6	100.6
70.0	79.0	84.9	90.6	95.5	94.4	91.7	89.4	100.1
75.0	79.1	85.0	90.0	95.1	93.6	90.9	89.2	99.5
80.0	78.1	84.4	89.6	94.5	92.9	90.3	89.1	99.0
85.0	76.9	84.1	89.1	93.6	92.1	89.3	88.8	98.2
90.0	77.5	83.8	88.9	92.7	91.4	88.3	87.7	97.5
95.0	77.0	83.1	88.8	92.0	90.9	87.9	87.6	97.0
100.0	76.5	82.2	88.0	91.9	90.3	87.3	86.5	96.5
105.0	76.0	81.3	87.3	91.8	90.0	86.9	86.5	96.2
110.0	75.6	80.5	86.8	90.8	89.4	87.9	86.5	96.0
115.0	75.1	80.0	85.3	89.1	88.2	86.7	86.9	94.6

MODEL THRUST = 31.000 FULL SCALE THRUST = 20000.000

L.	PNDB.		OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 19.7	39.4	78.7	157.5	315.0	629.9	1260.2	2480.3	4921.3	9842.5	19685.0
3795.4	72.3(	71.9)	79.2	83.01	80.99	71.45	69.02	80.76	50.59	43.02	26.02	-4.80	-59.16	-147.09
4385.7	76.7(	76.0)	78.5	64.93	71.91	74.91	72.62	64.47	55.29	49.56	35.96	11.91	-29.95	-97.22
3949.3	79.9(	79.1)	80.6	65.66	72.55	76.98	75.45	67.72	58.99	54.14	42.56	22.52	-11.93	-66.94
3080.0	82.6(	81.6)	82.2	65.53	72.74	78.44	77.75	70.95	62.87	59.12	47.87	30.47	.89	-46.08
2615.2	84.4(	83.2)	83.0	65.48	72.43	78.35	79.12	73.66	66.24	60.92	51.61	36.05	9.88	-31.45
2333.6	86.6(	85.1)	83.8	64.84	71.49	78.06	79.68	77.25	70.69	64.34	55.70	41.50	17.82	-19.38
2121.3	87.1(	87.6)	84.8	64.35	70.96	78.43	79.97	80.07	74.72	68.02	59.90	46.72	24.92	-9.17
1958.1	90.0(	88.0)	85.1	63.43	69.69	75.56	80.19	80.75	75.82	70.22	62.49	50.09	29.74	-1.96
1831.2	90.0(	87.8)	84.8	63.84	69.49	75.35	80.01	80.26	75.91	70.86	63.43	51.64	32.42	2.58
1732.1	89.7(	87.4)	84.6	63.46	69.35	75.49	80.06	79.76	75.54	70.53	63.34	52.03	33.68	5.30
1655.1	89.5(	87.0)	84.4	63.85	69.55	75.07	80.19	79.02	75.38	70.91	63.92	52.97	35.31	8.05
1596.3	89.4(	86.8)	84.2	63.68	69.45	75.11	80.00	78.61	75.18	71.19	64.33	53.67	36.52	10.13
1552.9	89.1(	86.6)	83.9	63.94	69.60	74.91	79.77	78.03	74.68	71.30	64.55	54.10	37.34	11.58
1523.1	88.8(	86.0)	83.5	63.68	69.43	74.58	79.41	77.49	74.22	71.37	64.69	54.38	37.88	12.56
1505.7	88.2(	85.3)	82.9	62.02	69.19	74.15	78.57	76.79	73.38	71.24	64.60	54.38	38.03	12.97
1500.1	87.5(	84.6)	82.2	62.65	68.93	74.04	77.74	76.20	72.34	70.21	63.59	53.39	37.10	12.12
1505.7	87.0(	84.1)	81.7	62.15	68.15	73.90	77.00	75.65	71.97	70.05	63.41	53.19	36.94	11.78
1523.1	86.1(	83.3)	81.1	61.54	67.24	73.41	76.80	74.87	71.24	69.75	62.07	51.76	35.26	9.94
1552.9	85.6(	82.8)	80.6	60.84	65.09	72.12	76.53	74.46	70.62	69.53	61.78	51.32	34.56	8.41
1596.3	85.9(	82.5)	80.0	60.18	65.11	71.33	75.25	73.56	71.40	70.30	63.45	52.79	35.64	9.25
1655.1	83.9(	80.7)	78.3	59.42	64.25	69.47	73.26	72.03	69.77	68.20	61.20	50.26	32.59	5.34

RUN NUMBER	= 529.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 527.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 1.668
AREA RATIO	= 9.788
VELOCITY RATIO	= .949
PRIMARY VELOCITY (FT/SEC)	= 898.102
MASS FLOW RATIO	= 6.033
PRIMARY MASS FLOW (LB/SEC)	= .342
THRUST (LBS)	= 75.000
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.250
ENVIRONMENTAL HUMIDITY (PER CENT)	= 68.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .050
INSTRUMENTATION NOISE FLOOR (DB)	= 63.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	3.998918E+00	135.8
500	1.986796E-01	122.9
1000	6.133806E-01	127.9
2000	8.787956E-01	129.4
4000	7.948446E-01	129.0
8000	6.204356E-01	127.9
16000	3.366956E-01	125.3
31500	1.560766E-01	121.9

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	156.8
20000	159.8
40000	162.8
80000	165.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	102.2	105.3	102.1	96.9	91.7	86.8	83.1	108.7
20.0	101.5	106.5	104.2	98.9	94.0	88.6	84.7	109.9
25.0	100.6	106.1	105.6	100.9	96.2	90.8	87.0	110.3
30.0	99.9	105.0	105.5	102.2	97.5	92.5	88.6	110.1
35.0	97.4	103.4	105.2	103.1	99.1	94.4	90.5	109.7
40.0	95.6	100.8	103.6	102.9	100.3	95.9	92.1	108.7
45.0	93.3	99.2	102.3	102.7	100.9	97.0	92.9	108.2
50.0	91.5	97.1	100.7	101.5	100.5	96.9	93.1	107.0
55.0	90.1	96.1	99.7	100.8	100.4	97.5	93.8	106.5
60.0	89.7	94.5	99.0	100.2	100.0	97.4	93.8	106.0
65.0	90.3	94.5	98.6	99.7	99.4	96.9	93.7	105.6
70.0	89.6	94.4	97.7	99.3	99.1	96.8	93.6	105.2
75.0	89.9	93.9	97.8	98.8	98.5	96.4	93.5	104.9
80.0	89.5	93.9	96.8	98.0	97.9	95.9	92.8	104.2
85.0	88.7	93.2	96.5	97.6	97.6	95.7	92.9	103.9
90.0	87.9	92.5	96.7	97.6	97.6	95.8	92.6	103.8
95.0	87.3	92.1	95.7	96.8	97.0	95.3	92.3	103.2
100.0	87.1	91.6	95.2	96.4	96.8	95.1	91.8	102.8
105.0	86.5	91.3	94.9	96.3	96.5	95.0	91.8	102.6
110.0	86.0	90.5	94.8	96.1	96.7	94.8	91.7	102.5
115.0	85.7	89.8	94.0	95.7	96.0	94.5	91.3	102.0

MODEL THRUST = 75.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 38.6	61.2	122.5	244.9	489.9	979.8	1959.0	3857.9	7654.7	15309.3	30618.6
8795.8	74.1(73.9)	78.0	71.77	74.75	71.35	65.44	58.41	48.83	36.67	9.52	-34.85	-109.47	-223.21
4385.7	79.4(79.3)	81.6	73.85	78.41	75.92	70.15	63.83	54.86	43.10	23.34	-10.97	-68.17	-154.97
3549.3	83.4(83.1)	83.9	74.43	79.90	79.21	74.15	68.24	59.99	49.76	33.20	4.86	-42.00	-112.42
3000.8	85.8(85.3)	85.1	75.15	80.23	80.65	76.94	71.31	63.86	54.57	40.10	15.69	-24.39	-84.71
2615.2	87.9(87.3)	85.7	73.84	79.81	81.51	79.09	74.26	67.50	58.89	45.90	24.23	-11.09	-64.06
2333.6	89.0(88.3)	85.7	73.03	78.26	80.90	80.00	76.66	70.31	62.34	50.62	30.76	-1.08	-48.67
2121.3	90.0(89.1)	85.8	71.60	77.47	80.48	80.66	78.13	72.48	64.61	53.50	35.36	6.14	-37.39
1958.1	90.1(89.0)	85.3	70.48	76.03	79.56	80.20	78.47	73.30	65.97	55.49	38.51	11.31	-29.10
1831.2	90.7(89.5)	85.4	69.61	75.62	79.13	80.01	79.04	74.68	67.65	57.65	41.58	15.95	-22.04
1732.1	91.0(89.6)	85.3	69.75	74.52	78.92	79.91	79.22	75.17	69.51	58.90	43.53	19.13	-16.97
1655.1	91.1(89.7)	85.3	70.70	74.92	78.99	79.90	79.06	75.20	69.00	59.67	44.86	21.40	-13.22
1596.3	91.2(89.7)	85.2	70.39	75.15	76.35	79.78	79.11	75.50	69.42	60.32	45.92	23.20	-10.30
1552.9	91.1(89.5)	85.1	70.91	74.39	78.73	79.56	78.71	75.39	69.72	60.78	46.70	24.50	-8.17
1523.1	90.6(89.1)	84.6	70.65	75.01	77.87	78.92	78.28	75.07	69.26	60.44	46.56	24.74	-7.36
1505.7	90.5(88.9)	84.4	69.99	74.48	77.67	78.62	78.11	75.04	69.49	60.74	46.99	25.38	-6.39
1500.8	90.5(88.9)	84.4	69.18	73.73	77.49	78.68	78.18	75.13	69.21	60.47	46.77	25.23	-6.43
1505.7	89.8(88.2)	83.7	68.61	73.36	76.46	77.81	77.55	74.63	68.89	60.14	46.39	24.78	-6.99
1523.1	89.4(87.8)	83.2	68.22	72.73	76.12	77.31	77.24	74.30	68.29	59.46	45.59	23.77	-8.36
1552.9	88.9(87.4)	82.8	67.48	72.25	75.78	76.78	76.78	73.98	68.03	59.09	45.01	22.81	-9.48
1596.3	88.6(87.0)	82.4	66.79	71.22	75.45	76.59	76.68	73.52	67.46	58.38	43.97	21.24	-12.26
1655.1	87.6(86.1)	81.5	66.15	70.19	74.34	75.43	75.67	72.79	66.58	57.25	42.44	18.98	-15.64

RUN NUMBER	= 530.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 532.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 1.322
AREA RATIO	= 9.748
VELOCITY RATIO	= 1.469
PRIMARY VELOCITY (FT/SEC)	= 701.771
MASS FLOW RATIO	= 9.159
PRIMARY MASS FLOW (LB/SEC)	= .317
THRUST (LBS)	= 102.000
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.250
ENVIRONMENTAL HUMIDITY (PER CENT)	= 68.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .100
INSTRUMENTATION NOISE FLOOR (DB)	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.19634E+01	140.8
500	5.66071E-01	127.5
1000	2.13486E+00	133.3
2000	2.96450E+00	134.7
4000	2.40682E+00	133.8
8000	2.09660E+00	133.2
16000	1.22238E+00	130.9
31500	5.75920E-01	127.6

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.7
20000	163.7
40000	166.7
80000	169.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	107.1	111.1	109.4	103.0	98.5	93.5	88.1	114.7
20.0	106.9	112.3	110.8	105.6	101.2	95.9	90.4	116.0
25.0	106.0	112.3	111.8	106.7	102.5	97.6	93.5	116.6
30.0	104.2	111.1	111.8	108.0	104.0	99.6	96.0	116.1
35.0	102.3	108.7	110.9	108.6	105.2	100.6	96.3	115.5
40.0	99.4	106.8	109.2	109.0	105.5	102.0	97.6	114.5
45.0	97.2	103.8	107.4	107.8	104.6	102.7	98.8	113.3
50.0	95.3	101.5	105.5	106.7	104.1	103.0	99.2	112.3
55.0	94.7	100.3	104.2	105.3	103.2	103.0	99.9	111.4
60.0	94.3	99.4	103.3	104.5	104.0	103.0	100.0	110.9
65.0	94.5	99.1	102.6	103.8	104.1	102.3	99.4	110.1
70.0	94.2	98.5	101.9	103.1	103.6	101.9	98.9	109.5
75.0	94.2	98.1	101.3	102.6	103.8	101.8	98.8	109.2
80.0	93.1	97.7	100.8	102.5	103.9	101.6	98.6	108.9
85.0	92.5	96.8	100.3	101.9	103.6	101.4	98.3	108.5
90.0	92.5	96.2	99.6	101.1	103.2	100.6	98.2	108.1
95.0	91.1	96.2	99.3	100.8	101.9	100.6	97.7	107.7
100.0	90.3	95.6	98.2	100.3	102.0	100.6	97.6	107.5
105.0	89.8	94.9	98.7	100.6	102.1	100.4	97.8	107.6
110.0	89.0	94.0	98.0	99.6	102.0	100.3	96.8	107.3
115.0	89.0	93.8	97.9	99.1	102.4	100.2	96.0	106.9

MODEL THRUST = 102.000 FULL SCALE THRUST = 20000.000

L=	PNDB=	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 35.7	71.4	142.8	285.7	571.3	1142.6	2240.5	4480.1	8926.8	17853.6	35707.1
4799.0	90.81	90.71	82.6	75.29	74.18	77.24	89.98	83.13	52.68	24.89	8.95	-43.10	-175.72	-249.91
4388.9	95.61	95.51	86.3	77.57	82.49	81.15	75.27	69.19	59.52	44.01	22.53	-16.48	-74.33	-173.24
3949.3	98.97	98.61	88.5	78.42	84.59	84.00	78.49	72.78	64.39	53.68	33.01	2.10	-49.66	-134.26
3889.0	91.01	90.71	89.7	78.16	85.02	85.56	81.26	76.12	68.56	57.62	41.29	13.46	-36.22	-95.69
2819.2	92.71	92.21	89.9	77.59	83.80	85.97	83.12	78.68	71.59	61.76	47.09	22.66	-16.07	-73.30
2333.8	94.01	93.51	90.6	78.55	82.81	85.14	84.98	81.16	74.46	64.98	51.62	29.68	-5.38	-46.97
2121.3	93.31	93.61	89.5	78.17	80.72	84.26	84.08	82.20	76.93	67.78	55.36	35.16	2.09	-41.00
1988.1	93.31	93.51	89.0	78.93	79.18	83.00	83.95	82.55	77.49	69.58	57.89	38.98	9.88	-36.40
1851.2	94.41	93.41	89.6	78.97	79.54	82.12	83.19	83.32	78.32	71.32	60.19	42.33	16.17	-28.41
1732.1	94.71	93.41	88.5	78.04	79.86	81.88	82.45	83.56	79.47	72.25	61.56	44.56	17.78	-21.22
1655.1	94.51	93.41	88.2	77.41	78.13	81.62	82.70	83.15	79.81	72.33	61.69	45.54	19.88	-17.62
1546.3	94.31	93.11	87.4	77.50	77.02	81.58	82.17	81.89	79.73	72.36	62.20	46.35	21.60	-16.70
1592.9	96.21	93.01	87.8	77.83	77.77	80.90	81.58	81.51	78.60	72.78	62.88	47.14	22.88	-12.36
1923.1	95.41	93.11	87.4	77.91	77.53	80.92	81.69	81.82	78.88	72.72	62.49	47.59	23.67	-10.62
1565.7	96.01	92.71	87.6	77.41	76.76	80.69	81.68	81.61	78.42	72.63	62.46	47.72	24.03	-10.28
1500.6	93.91	92.61	86.9	77.08	76.16	79.86	81.19	81.27	78.48	72.58	62.63	47.94	24.16	-9.95
1505.7	93.41	92.01	86.6	77.07	76.13	79.13	80.68	80.89	78.35	71.98	62.29	47.87	23.38	-10.46
1525.1	93.11	91.91	86.2	76.98	75.23	78.42	79.96	80.81	77.97	71.78	61.96	46.99	23.07	-11.67
1592.9	92.91	91.91	85.9	76.58	74.55	78.35	79.93	80.86	77.56	71.63	61.76	46.13	21.78	-13.61
1548.4	92.31	91.11	85.6	76.38	73.35	77.29	79.43	81.05	77.18	70.23	60.18	44.18	19.29	-14.95
1659.1	91.51	90.41	84.7	76.06	72.55	76.40	77.98	80.05	76.09	69.02	58.57	42.16	16.68	-20.47

RUN NUMBER	= 531.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 523.000
SECONDARY TEMPERATURE (R)	= 528.000
PRIMARY PRESSURE RATIO	= 3.060
AREA RATIO	= 1.000
VELOCITY RATIO	= .373
PRIMARY VELOCITY (FT/SEC)	= 1313.527
MASS FLOW RATIO	= .619
PRIMARY MASS FLOW (LB/SEC)	= .417
THRUST (LBS)	= 25.580
ENVIRONMENTAL TEMPERATURE (R)	= 515.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.330
ENVIRONMENTAL HUMIDITY (PER CENT)	= 65.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .071
INSTRUMENTATION NOISE FLOOR (DB)	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.384683E+00	138.0
500	1.612126E-02	112.1
1000	1.268885E-01	121.0
2000	7.392087E-01	128.7
4000	1.707546E+00	132.3
8000	2.110028E+00	133.2
16000	1.197736E+00	130.6
31500	5.573246E-01	127.5

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	164.0
20000	167.0
40000	170.0
80000	173.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	92.1	101.0	107.0	109.1	107.5	103.4	94.9	113.5
20.0	90.9	100.0	107.0	109.9	108.3	103.7	95.2	114.2
25.0	90.1	99.6	107.0	110.1	108.6	103.7	97.6	114.3
30.0	89.4	97.9	106.6	109.7	108.5	104.1	96.0	114.0
35.0	88.3	96.1	104.0	108.8	108.4	104.3	94.2	113.3
40.0	86.1	93.5	102.0	106.8	107.7	104.2	92.5	112.8
45.0	82.1	90.0	99.2	104.3	104.3	103.5	90.4	110.6
50.0	80.5	88.0	96.6	101.9	104.7	102.4	89.0	108.9
55.0	79.6	87.5	95.2	100.2	103.6	102.1	89.3	107.9
60.0	79.3	86.9	94.4	99.6	102.3	101.1	88.4	107.0
65.0	78.6	86.5	93.5	98.6	101.7	100.3	88.2	106.6
70.0	78.0	86.3	92.9	98.2	101.1	100.0	88.9	106.0
75.0	78.6	86.0	92.2	97.8	100.9	99.7	88.6	105.9
80.0	78.5	85.5	92.0	97.9	100.3	99.3	89.2	105.7
85.0	77.8	84.9	91.5	98.6	100.6	99.0	87.9	105.8
90.0	77.0	84.8	91.2	98.1	100.2	98.8	87.5	106.8
95.0	77.0	84.9	90.9	95.9	100.6	98.5	87.0	104.6
100.0	76.1	83.9	90.0	95.8	100.3	98.3	86.6	104.5
105.0	75.6	82.6	89.8	95.1	100.6	97.9	86.2	104.1
110.0	75.8	81.8	89.5	93.9	99.8	97.7	85.8	103.4
115.0	75.1	80.6	87.5	92.6	98.3	96.8	85.3	102.0

MODEL THRUST = 25.580 FULL SCALE THRUST = 20885.000

L=	PWDB=	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 17.9	35.7	71.4	142.9	285.7	571.5	1124.8	2249.5	4883.0	8925.8	17855.0
4388.9	92.81	91.51	98.3	87.57	77.91	84.37	89.23	86.88	77.38	65.97	52.64	31.38	-7.84	-70.49
3888.8	92.81	91.51	98.3	87.57	77.91	84.37	89.23	86.88	77.38	65.97	52.64	31.38	-7.84	-70.49
3388.8	92.81	91.51	98.3	87.57	77.91	84.37	89.23	86.88	77.38	65.97	52.64	31.38	-7.84	-70.49
2888.8	92.81	91.51	98.3	87.57	77.91	84.37	89.23	86.88	77.38	65.97	52.64	31.38	-7.84	-70.49
2388.8	92.81	91.51	98.3	87.57	77.91	84.37	89.23	86.88	77.38	65.97	52.64	31.38	-7.84	-70.49
1888.8	92.81	91.51	98.3	87.57	77.91	84.37	89.23	86.88	77.38	65.97	52.64	31.38	-7.84	-70.49
1388.8	92.81	91.51	98.3	87.57	77.91	84.37	89.23	86.88	77.38	65.97	52.64	31.38	-7.84	-70.49
888.8	92.81	91.51	98.3	87.57	77.91	84.37	89.23	86.88	77.38	65.97	52.64	31.38	-7.84	-70.49
388.8	92.81	91.51	98.3	87.57	77.91	84.37	89.23	86.88	77.38	65.97	52.64	31.38	-7.84	-70.49
1888.8	92.81	91.51	98.3	87.57	77.91	84.37	89.23	86.88	77.38	65.97	52.64	31.38	-7.84	-70.49
1388.8	92.81	91.51	98.3	87.57	77.91	84.37	89.23	86.88	77.38	65.97	52.64	31.38	-7.84	-70.49
888.8	92.81	91.51	98.3	87.57	77.91	84.37	89.23	86.88	77.38	65.97	52.64	31.38	-7.84	-70.49
388.8	92.81	91.51	98.3	87.57	77.91	84.37	89.23	86.88	77.38	65.97	52.64	31.38	-7.84	-70.49

RUN NUMBER	= 532.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 522.000
SECONDARY TEMPERATURE (R)	= 520.000
PRIMARY PRESSURE RATIO	= 2.094
AREA RATIO	= 1.000
VELOCITY RATIO	= .852
PRIMARY VELOCITY (FT/SEC)	= 1694.800
MASS FLOW RATIO	= 1.100
PRIMARY MASS FLOW (LB/SEC)	= .418
THRUST (LBS)	= 33.000
ENVIRONMENTAL TEMPERATURE (R)	= 515.580
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.930
ENVIRONMENTAL HUMIDITY (PER CENT)	= 67.500
CALIBRATION FACTOR (DB TO DB/SQ CM)	= .063
INSTRUMENTATION NOISE FLOOR (DB)	= 65.560

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
			THRUST	POWER LEVEL(DB)
OVERALL	3.063746E+00	137.9	10000	142.3
500	3.880256E-02	115.9	20000	145.4
1000	2.433869E-01	124.0	40000	148.4
2000	8.790216E-01	129.9	80000	151.4
4000	1.377227E+00	131.4		
8000	1.513337E+00	131.8		
16000	9.198955E-01	129.6		
31500	5.849568E-01	127.7		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND SOUND PRESSURE LEVELS 1000	2000	4000	8000	16000	31500	OVERALL
10.0	88.0	103.0	107.7	108.0	105.0	100.3	94.7	112.0
20.0	85.7	103.5	106.5	106.0	106.0	101.7	96.3	113.0
25.0	93.5	102.0	106.0	106.5	106.0	102.0	97.0	113.2
30.0	91.0	101.5	107.5	106.0	106.0	102.0	97.0	113.2
35.0	89.0	99.0	105.7	105.5	104.5	101.0	96.5	112.0
40.0	87.0	96.5	103.0	103.7	103.1	100.0	95.5	111.1
45.0	86.0	95.7	102.0	102.5	102.5	100.1	95.0	110.8
50.0	87.0	96.5	102.5	102.0	101.0	99.0	94.0	109.7
55.0	87.5	97.0	101.5	101.5	101.5	99.5	94.5	109.1
60.0	87.0	96.0	100.5	100.2	100.2	98.5	93.5	107.2
65.0	87.0	95.5	99.0	98.5	98.2	97.0	92.0	105.6
70.0	87.0	95.5	98.5	97.5	97.0	95.5	90.5	104.0
75.0	87.0	95.0	97.5	96.5	96.0	94.0	89.0	102.5
80.0	86.5	94.5	96.5	95.5	95.0	93.0	88.0	101.5
85.0	86.0	94.0	96.0	95.0	94.5	92.5	87.5	101.0
90.0	86.0	94.0	96.0	95.0	94.5	92.5	87.5	101.0
95.0	86.0	94.0	96.0	95.0	94.5	92.5	87.5	101.0
100.0	86.0	94.0	96.0	95.0	94.5	92.5	87.5	101.0
105.0	86.0	94.0	96.0	95.0	94.5	92.5	87.5	101.0
110.0	86.0	94.0	96.0	95.0	94.5	92.5	87.5	101.0
115.0	86.0	94.0	96.0	95.0	94.5	92.5	87.5	101.0
119.0	86.0	94.0	96.0	95.0	94.5	92.5	87.5	101.0

MODEL THRUST = 33.100 FULL SCALE THRUST = 75000.000

ANGLE	OCTAVE BAND SOUND PRESSURE LEVELS							OVERALL
	63.2	88.6	177.2	354.5	708.9	1417.8	2835.6	5670.5	11341.0	22681.9	
4385.7	89.0	89.21	88.6	90.93	96.42	84.29	83.34	81.28	76.01	63.78	45.24	25.26	-19.78	-85.35
3849.3	92.91	91.38	90.6	92.97	92.16	85.15	85.61	83.53	77.11	64.21	56.35	35.03	.55	-59.51
3289.8	94.61	93.89	93.5	93.98	93.45	88.35	86.68	84.94	78.29	70.18	62.89	42.45	12.83	-35.29
2815.2	95.91	94.93	94.9	94.53	94.37	90.47	87.33	85.13	79.42	64.78	70.48	48.71	22.91	-20.84
2733.8	95.21	96.41	95.8	94.42	94.47	92.34	88.55	86.69	80.13	74.11	65.18	51.74	32.56	-10.26
2131.9	96.0	96.21	96.2	95.92	95.11	92.14	89.33	87.21	82.13	74.42	66.42	55.13	35.85	-1.47
1951.1	95.9	96.54	96.3	96.38	96.51	91.43	89.15	87.55	82.38	74.42	72.12	57.68	38.65	6.37
1831.7	96.71	96.31	96.9	96.78	93.83	92.18	89.93	88.21	83.55	75.23	71.55	59.81	39.97	9.59
1732.1	96.91	96.91	96.8	96.55	93.92	92.92	89.98	88.27	83.98	75.38	72.42	60.06	40.13	10.23
1655.1	96.8	93.31	97.8	96.48	93.47	93.43	91.44	89.06	84.85	76.83	73.56	62.36	44.73	16.51
1598.3	96.11	93.61	97.6	96.15	93.48	93.71	92.39	89.17	85.13	77.61	73.92	63.89	45.32	19.28
1557.9	96.21	97.91	97.3	96.59	93.15	93.97	92.77	89.78	85.53	78.08	73.98	64.21	46.16	20.68
1523.1	96.11	97.61	97.1	96.69	93.35	93.92	91.78	89.91	85.78	78.06	74.06	64.31	46.68	21.63
1515.7	96.61	97.31	97.6	96.96	93.33	94.08	91.77	89.15	87.01	78.22	74.06	64.32	46.36	20.82
1502.2	96.11	97.41	97.1	96.93	93.46	93.93	91.99	89.45	86.96	78.18	74.03	64.52	46.89	21.46
1525.9	96.61	97.31	97.7	96.99	93.67	93.95	91.64	89.27	86.41	78.13	73.97	64.03	45.25	19.73
1573.1	96.31	97.71	97.5	96.98	93.97	93.83	91.84	89.14	86.41	78.08	74.06	63.78	45.20	19.59
1552.9	96.31	97.61	97.5	96.89	93.79	93.97	91.97	89.37	86.19	78.21	73.82	63.34	43.23	17.21
1546.8	96.21	97.31	97.0	96.84	93.65	93.74	91.84	89.50	86.43	78.43	73.83	63.11	41.81	14.74
1559.1	96.31	97.41	96.9	96.82	93.65	93.83	91.59	89.01	86.96	78.96	74.04	63.80	39.58	11.43

RUN NUMBER	=	533.00 (767.00)
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	-4.100
PRIMARY TEMPERATURE (R)	=	527.000
SECONDARY TEMPERATURE (R)	=	532.000
PRIMARY PRESSURE RATIO	=	1.851
AREA RATIO	=	1.000
VELOCITY RATIO	=	1.020
PRIMARY VELOCITY (FT/SEC)	=	1012.794
MASS FLOW RATIO	=	1.273
PRIMARY MASS FLOW (LB/SEC)	=	.420
THRUST (LBS)	=	35.000
ENVIRONMENTAL TEMPERATURE (R)	=	519.500
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.330
ENVIRONMENTAL HUMIDITY (PER CENT)	=	67.500
CALIBRATION FACTOR (MV TO DY/SQ CM)	=	.079
INSTRUMENTATION NOISE FLOOR (DB)	=	67.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.19691E+00	138.6
500	5.59244E-02	117.5
1000	3.66566E-01	125.6
2000	1.33808E+00	131.3
4000	1.75509E+00	132.4
8000	1.77774E+00	132.5
16000	1.08063E+00	130.3
31500	8.22970E-01	129.2

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST.

THRUST	POWER LEVEL(DB)
10000	163.1
20000	166.1
40000	169.2
80000	172.2

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVERALL
15.0	98.1	105.6	109.5	108.8	106.9	101.5	95.6	114.4
20.0	97.0	105.6	110.4	109.1	107.3	102.4	97.4	114.9
25.0	95.4	104.1	109.7	109.3	107.5	103.1	98.3	114.7
30.0	94.2	102.9	108.8	109.1	107.7	103.5	98.9	114.3
35.0	92.0	100.5	107.6	108.7	107.7	104.0	99.5	113.8
40.0	88.9	98.2	104.7	107.2	107.1	103.9	100.2	112.4
45.0	86.7	94.9	101.8	104.9	106.1	103.6	101.0	111.0
50.0	85.3	92.8	99.5	103.3	105.1	103.5	101.1	110.0
55.0	84.0	91.6	98.3	102.1	104.5	103.5	102.4	109.6
60.0	83.8	91.3	97.1	100.6	102.6	102.2	101.9	108.4
65.0	83.4	90.7	96.4	99.8	101.8	101.0	101.9	107.7
70.0	83.6	90.6	95.9	98.9	100.7	100.1	100.7	106.7
75.0	83.4	89.9	95.4	98.7	99.8	99.5	99.8	106.0
80.0	82.6	89.2	94.6	97.9	99.3	98.9	99.3	105.4
85.0	82.4	88.8	94.2	97.6	98.9	98.4	98.9	105.0
90.0	82.1	88.6	93.8	97.1	98.4	97.9	98.4	104.5
95.0	81.8	87.9	93.2	96.5	98.0	97.3	98.0	104.0
100.0	81.0	87.3	92.8	95.9	97.6	96.9	97.6	103.6
105.0	80.0	86.8	92.4	96.1	97.2	96.3	97.2	103.2
110.0	80.0	85.9	92.0	95.6	96.8	96.0	96.8	102.8
115.0	79.6	85.0	91.0	95.2	96.5	95.7	96.5	102.4

MODEL THRUST = 35.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 20.9	41.8	83.7	167.3	334.7	669.3	1317.7	2635.5	5229.1	10458.3	20916.5
3795.6	97.2(88.9)	88.8	70.93	78.67	82.24	81.14	78.13	69.85	57.30	39.36	6.91	-49.98	-141.30
4385.7	91.1(90.5)	89.6	72.25	80.83	85.56	84.03	81.37	74.26	64.26	49.95	24.67	-19.11	-88.95
3549.3	93.5(92.7)	91.2	72.47	81.25	86.74	86.13	83.63	77.49	68.60	56.45	35.41	-.59	-57.68
3000.0	95.4(94.3)	92.3	72.80	81.49	87.33	87.42	85.40	79.81	71.67	60.93	42.69	11.79	-36.93
2615.2	96.8(95.5)	93.0	71.78	80.30	87.32	88.24	86.74	81.77	74.24	64.49	48.21	20.89	-21.96
2333.6	97.3(95.7)	92.5	69.67	78.97	85.36	87.75	87.21	82.83	74.48	67.46	52.60	27.91	-10.66
2121.3	97.6(95.5)	91.8	68.25	76.50	83.31	86.36	87.00	83.80	76.53	70.06	56.28	33.55	-1.77
1958.1	97.5(95.3)	91.4	67.55	75.13	81.77	85.39	86.83	84.29	79.59	71.54	58.59	37.38	4.54
1831.7	98.1(95.5)	91.6	66.92	74.45	81.09	84.78	86.85	84.97	81.70	73.98	61.68	41.65	10.75
1732.1	97.4(94.6)	90.8	67.18	74.64	80.40	83.85	85.48	84.26	81.92	74.46	62.66	43.55	14.14
1655.1	97.6(94.7)	90.5	67.12	74.42	80.08	83.38	85.12	83.46	82.51	75.24	63.83	45.45	17.22
1596.3	97.0(94.0)	89.9	67.67	74.63	79.94	82.77	84.36	82.95	81.69	74.58	63.47	45.62	18.30
1552.9	96.6(93.5)	89.5	67.68	74.19	79.71	82.44	83.68	82.62	81.11	74.11	63.22	45.78	19.11
1523.1	96.3(93.1)	89.1	67.11	73.62	79.00	82.25	83.36	82.23	80.85	73.92	63.18	46.02	19.81
1505.7	96.0(92.9)	88.8	66.95	73.13	78.71	82.05	83.07	81.83	80.60	73.71	63.06	46.06	20.12
1500.0	95.6(92.4)	88.3	66.72	73.23	78.33	81.61	82.60	81.38	80.18	73.23	62.61	45.66	19.80
1505.7	95.1(91.9)	87.8	66.41	72.69	77.78	80.97	82.14	80.70	79.70	72.81	62.18	45.16	19.22
1523.1	94.5(91.3)	87.2	65.42	71.74	77.22	80.27	81.64	80.18	79.11	72.18	61.45	44.28	18.07
1552.9	93.9(90.7)	86.7	64.27	71.17	76.66	80.27	81.85	79.41	78.69	71.19	60.60	43.16	16.69
1596.3	93.0(90.0)	86.0	64.03	70.01	76.62	79.56	80.43	78.83	77.74	70.66	59.53	41.69	14.16
1655.1	92.2(89.2)	85.3	63.36	68.71	74.72	78.75	79.78	78.15	77.04	69.81	58.48	40.01	11.73

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 534.000
PRIMARY TEMPERATURE (R)	= [illegible]
SECONDARY TEMPERATURE (R)	= 528.000
PRIMARY PRESSURE RATIO	= 530.000
AREA RATIO	= 3.060
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= .372
MASS FLOW RATIO	= 1319.791
PRIMARY MASS FLOW (LB/SEC)	= .883
THRUST (LBS)	= .420
ENVIRONMENTAL TEMPERATURE (R)	= 28.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 517.000
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.330
CALIBRATION FACTOR (MV TO DY/SQ CM)	= 63.500
INSTRUMENTATION NOISE FLOOR (DB)	= .071
	= 66.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	7.738536E+00	138.9
500	2.081706E-02	113.2
1000	1.630328E-01	122.1
2000	8.643044E-01	129.4
4000	2.186406E+00	133.4
8000	2.831746E+00	134.5
16000	1.144676E+00	130.6
31500	5.275436E-01	127.2

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	164.4
20000	167.4
40000	170.4
80000	173.4

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	92.9	101.4	106.8	108.2	105.8	100.9	92.9	112.6
20.0	92.6	101.2	107.4	109.9	106.5	100.6	93.9	113.1
25.0	91.0	100.9	107.7	110.0	108.1	102.5	96.2	114.1
30.0	89.2	99.1	107.6	110.4	109.4	104.2	96.5	114.5
35.0	88.0	96.9	105.5	109.5	108.4	103.1	97.1	113.6
40.0	85.5	95.2	103.4	106.3	106.3	103.6	97.6	112.8
45.0	81.7	93.6	100.0	104.2	107.5	104.2	98.4	111.6
50.0	82.5	90.8	98.6	103.0	105.9	103.5	98.7	110.1
55.0	81.1	89.1	96.9	102.7	105.7	102.9	99.3	109.5
60.0	80.8	88.4	96.4	102.3	105.2	102.5	99.9	109.2
65.0	80.2	87.8	95.2	100.8	103.6	101.3	99.8	107.9
70.0	79.6	87.6	94.8	100.9	104.0	100.9	99.2	107.9
75.0	79.3	87.3	94.3	100.7	103.4	100.3	98.8	107.4
80.0	79.0	87.1	94.0	100.2	102.9	99.8	98.3	107.0
85.0	79.0	86.5	93.5	99.6	102.0	99.4	97.7	106.3
90.0	78.2	86.0	92.8	98.6	102.3	99.0	97.2	106.0
95.0	78.2	85.5	92.6	98.0	103.4	98.5	96.6	106.2
100.0	76.6	84.6	91.9	97.4	101.4	98.0	96.0	105.0
105.0	76.1	83.5	91.6	96.0	102.6	97.6	95.4	105.5
110.0	76.1	82.6	90.8	95.2	102.3	97.2	94.8	106.2
115.0	76.1	81.6	88.6	93.5	102.2	96.8	94.3	104.6

MODEL THRUST = 20000.000 FULL SCALE THRUST = 20000.000

L=	PNDB=	OASPL	18.7	OCTAVE 37.4	BAND 74.8	SOUND 149.7	PRESSURE 299.3	LEVELS 598.7	1178.6	2357.2	4677.1	9354.1	18708.3
9799.8	90.8[illegible]	85.9[illegible]	89.8	66.77	75.19	[illegible]0.39	81.93	78.33	78.91	57.07	40.83	11.32	-40.97	-126.12
4385.7	90.1[illegible]	89.51	88.8	68.26	77.42	83.56	84.00	81.73	73.98	62.84	49.81	26.75	-13.55	-78.71
3549.3	93.9[illegible]	91.11	91.7	69.09	78.94	85.68	87.80	85.37	78.29	64.36	57.24	38.01	4.82	-48.49
3000.0	96.6[illegible]	95.6[illegible]	93.6	68.72	78.68	85.64	89.71	88.23	81.74	71.05	61.19	44.47	15.95	-29.57
2615.2	97.3[illegible]	96.0[illegible]	93.8	68.77	77.62	85.20	90.16	88.57	82.13	73.48	64.50	49.54	24.30	-15.77
2333.6	98.2[illegible]	96.7[illegible]	94.0	67.22	76.92	85.[illegible]	89.96	89.49	83.83	75.50	67.16	53.49	30.64	-5.43
2121.3	98.5[illegible]	96.7[illegible]	93.8	66.21	75.[illegible]	83.29	88.63	89.56	85.38	77.46	69.61	56.91	35.86	2.90
1950.1	98.2[illegible]	96.1[illegible]	93.7	65.86	74.93	81.93	87.05	88.73	85.43	78.67	71.19	59.24	39.58	8.83
1831.2	98.6[illegible]	96.3[illegible]	92.7	64.95	73.95	80.71	86.19	89.13	85.55	80.16	72.92	61.54	42.97	14.01
1732.1	99.1[illegible]	96.5[illegible]	92.9	65.15	73.72	80.[illegible]	86.56	89.12	85.72	81.35	74.39	63.47	45.73	18.19
1655.1	98.4[illegible]	95.5[illegible]	93.0	64.97	73.[illegible]	[illegible]5.42	87.94	88.94	81.76	74.99	64.61	47.34	20.88
1596.3	98.8[illegible]	96.0[illegible]	92.3	64.66	72.[illegible]	79.[illegible]	[illegible]0.81	88.44	84.47	81.57	76.93	64.62	48.05	22.42
1557.0	98.6[illegible]	95.7[illegible]	92.1	64.67	73.[illegible]	[illegible]0.[illegible]	[illegible]0.[illegible]	88.68	84.57	81.68	76.93	64.83	48.62	23.61
1523.1	99.3[illegible]	95.4[illegible]	91.8	64.60	72.[illegible]	79.[illegible]	[illegible]0.[illegible]	88.03	84.24	81.21	76.73	64.76	48.80	24.21
1505.7	97.7[illegible]	94.7[illegible]	91.3	64.60	72.[illegible]	79.10	85.00	87.20	83.94	80.75	76.31	64.62	48.61	24.27
1500.0	97.6[illegible]	94.7[illegible]	91.1	63.82	71.[illegible]	78.[illegible]	84.87	87.56	83.80	80.31	75.88	64.02	48.26	24.00
1509.7	97.5[illegible]	95.0[illegible]	91.2	63.78	71.[illegible]	78.10	83.41	86.56	83.06	79.60	73.16	63.27	47.46	23.12
1523.1	96.1[illegible]	91.5[illegible]	89.9	62.[illegible]	70.[illegible]	77.[illegible]	[illegible]2.77	84.69	82.42	78.92	72.43	62.47	46.51	21.92
1557.0	94.5[illegible]	89.2[illegible]	90.2	61.78	68.[illegible]	75.[illegible]	[illegible]1.[illegible]	87.69	81.81	78.10	71.55	61.45	45.24	20.23
1598.3	94.8[illegible]	89.5[illegible]	90.7	61.14	67.[illegible]	74.[illegible]	[illegible]2.12	88.93	81.21	77.16	70.51	60.21	43.63	18.30
1654.1	94.9[illegible]	92.4[illegible]	88.7	60.43	66.[illegible]	73.[illegible]	[illegible]0.12	85.58	80.43	76.26	69.48	58.91	41.83	15.97

RUN NUMBER	= 535.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 527.000
SECONDARY TEMPERATURE (R)	= 538.000
PRIMARY PRESSURE RATIO	= 2.094
AREA RATIO	= 2.087
VELOCITY RATIO	= .869
PRIMARY VELOCITY (FT/SEC)	= 1108.079
MASS FLOW RATIO	= 1.542
PRIMARY MASS FLOW (LB/SEC)	= .420
THRUST (LBS)	= 39.500
ENVIRONMENTAL TEMPERATURE (R)	= 518.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.330
ENVIRONMENTAL HUMIDITY (PER CENT)	= 61.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .063
INSTRUMENTATION NOISE FLOOR (DB)	= 65.566

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.9662VE+00	138.4
500	5.96841E-02	117.7
1000	4.08199E-01	126.1
2000	1.35718E+00	131.3
4000	1.82279E+00	132.6
8000	1.36818E+00	132.8
16000	9.34469E-01	129.7
31500	4.77989E-01	126.8

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	162.5
20000	165.5
40000	168.5
80000	171.5

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
10.0	97.2	105.6	107.3	105.2	102.8	95.9	89.0	111.8
20.0	98.4	104.8	106.5	105.7	103.7	97.0	90.5	112.6
25.0	99.1	103.8	106.7	107.6	105.4	99.2	92.5	113.1
30.0	94.1	103.2	106.8	106.3	106.1	100.2	93.9	113.5
35.0	92.2	101.8	107.5	107.9	106.1	101.3	95.5	112.8
40.0	91.1	99.8	106.1	107.9	107.2	102.0	96.1	112.7
45.0	89.4	97.0	103.7	106.2	106.7	102.4	97.0	111.5
50.0	88.9	95.3	101.6	105.0	105.8	102.5	98.0	110.5
55.0	86.4	94.1	100.6	103.6	105.3	102.0	98.5	109.7
60.0	85.1	92.8	99.2	102.6	104.2	101.2	98.3	108.8
65.0	84.3	91.7	97.9	101.5	103.6	101.4	99.1	108.2
70.0	84.6	91.2	97.1	100.6	102.4	100.6	98.8	107.4
75.0	84.8	90.9	96.6	99.9	101.8	100.3	98.4	106.9
80.0	83.2	90.4	96.3	99.9	101.3	99.9	98.1	106.5
85.0	82.9	89.7	95.5	98.9	100.8	99.4	97.8	105.9
90.0	82.7	89.6	95.5	99.0	100.3	99.7	97.5	105.7
95.0	82.5	89.5	95.0	98.4	99.9	98.8	97.1	105.3
100.0	81.8	88.7	94.8	98.2	99.6	98.4	96.8	105.0
105.0	81.4	88.4	94.2	98.1	99.2	98.1	96.4	104.6
110.0	80.9	87.6	93.8	97.7	98.9	97.9	96.0	104.3
115.0	80.4	85.9	92.8	97.1	98.6	97.7	95.8	103.9

MODEL THRUST = 39.500 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	22.2	OCTAVE	BAND	SOUND	PRESSURE	LEVELS				
				44.4	88.9	177.8	355.5	711.1	1399.9	2799.8	5555.1	11110.2	22220.5
8798.6	83.0	82.7	83.0	69.01	77.90	79.41	76.98	73.39	63.30	49.20	30.32	-3.82	-83.32	-158.07
4388.7	87.3	86.8	86.9	71.14	79.57	83.16	80.98	77.15	68.10	56.11	41.05	14.49	-31.27	-103.69
3549.3	90.7	90.1	89.2	71.69	80.37	85.16	83.80	80.89	72.84	61.77	49.01	26.93	-10.67	-69.45
3000.0	93.2	92.4	91.1	72.13	81.23	86.82	86.07	83.23	75.73	65.68	54.43	35.31	5.06	-47.43
2615.3	94.7	93.7	91.6	71.45	80.99	86.66	86.84	84.60	78.31	69.29	59.09	42.04	13.55	-30.85
2333.6	96.4	95.2	92.4	71.36	80.82	86.26	87.91	86.71	80.28	71.46	62.04	46.50	20.75	-19.19
2121.3	96.9	95.5	92.0	70.52	78.01	84.69	87.05	87.13	81.73	73.69	64.85	50.46	26.78	-9.40
1958.1	97.1	95.4	91.6	68.65	77.05	83.35	86.61	86.98	82.59	75.65	67.26	53.74	31.65	-2.35
1831.7	97.3	95.5	91.4	68.72	76.40	82.91	85.76	87.07	82.80	77.00	68.96	56.13	35.27	3.29
1732.1	97.1	95.0	90.9	67.93	75.58	81.94	85.26	86.81	82.60	77.58	69.82	57.51	37.42	7.21
1655.1	97.2	95.0	90.7	67.53	74.92	81.11	84.52	86.28	83.22	78.88	71.33	59.44	40.30	11.10
1596.3	96.9	94.4	90.2	68.17	74.76	80.60	83.97	85.47	82.79	79.06	71.67	60.09	41.53	13.26
1552.9	96.8	94.1	89.9	67.74	74.68	80.37	83.52	85.12	82.77	78.96	71.69	60.34	42.20	14.62
1523.1	96.4	93.9	89.8	67.19	74.34	80.20	83.73	84.78	82.58	78.91	71.72	60.53	42.68	15.57
1505.7	96.0	93.4	89.2	66.90	73.70	79.46	82.81	84.46	82.18	78.69	71.55	60.46	42.78	15.94
1500.0	95.7	93.1	89.0	66.74	73.46	79.50	82.95	83.91	81.92	78.43	71.31	60.25	42.63	15.98
1505.7	95.3	92.7	88.6	66.50	73.51	78.95	82.34	83.50	81.57	78.01	70.87	59.78	42.10	15.26
1523.1	94.8	92.3	88.2	65.53	72.69	78.74	82.02	83.08	81.05	77.41	70.42	59.24	41.39	14.28
1552.9	94.2	91.7	87.7	65.13	72.21	77.98	81.77	82.64	80.57	76.98	69.71	58.38	40.22	12.64
1596.3	93.6	91.1	87.1	64.41	70.92	77.33	81.10	81.97	80.10	76.22	68.83	57.25	38.69	10.62
1655.1	92.9	90.3	86.2	63.58	69.12	75.73	80.20	81.32	79.54	75.56	68.01	56.12	36.98	7.74

RUN NUMBER	
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= 536.000
PRIMARY TEMPERATURE (R)	= -4.100
SECONDARY TEMPERATURE (R)	= 535.000
PRIMARY PRESSURE RATIO	= 536.000
AREA RATIO	= 1.851
VELOCITY RATIO	= 2.007
PRIMARY VELOCITY (FT/SEC)	= 1.016
MASS FLOW RATIO	= 1020.452
PRIMARY MASS FLOW (LB/SEC)	= 1.878
THRUST (LBS)	= .420
ENVIRONMENTAL TEMPERATURE (R)	= 45.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 518.500
ENVIRONMENTAL HUMIDITY (PER CENT)	= 29.330
CORRELATION FACTOR (MV TO DYN/SQ CM)	= 65.000
INSTRUMENTATION NOISE FLOOR (DB)	= .079
	= 67.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	9.87524E+00	139.9
500	8.45177E+02	119.3
1000	6.09970E-01	127.9
2000	1.94787E+00	132.9
4000	2.50081E+00	134.0
8000	2.48438E+00	134.0
16000	1.33265E+00	131.2
31500	7.14854E-01	128.5

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	163.3
20000	166.3
40000	169.3
80000	172.4

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	98.9	106.8	109.1	107.5	104.9	98.4	91.5	113.7
20.0	98.0	107.0	110.4	109.2	106.5	100.4	94.2	114.9
25.0	97.2	106.5	110.9	109.3	106.2	100.1	94.2	114.9
30.0	95.9	105.0	110.1	109.3	107.1	101.7	96.2	114.7
35.0	93.9	103.2	109.3	109.7	107.3	101.7	96.2	114.4
40.0	91.9	100.7	107.1	108.9	107.8	103.1	97.9	113.6
45.0	90.3	99.2	105.6	107.8	107.6	103.8	99.0	112.9
50.0	89.0	97.1	103.7	106.0	106.3	102.8	99.2	111.5
55.0	86.5	94.7	101.3	104.9	106.3	103.7	100.3	111.0
60.0	86.5	94.2	100.4	103.6	105.1	102.6	100.3	109.9
65.0	85.8	93.5	99.3	102.5	104.3	102.8	101.1	109.4
70.0	85.3	92.7	98.2	101.5	103.3	102.3	100.7	108.6
75.0	85.4	92.0	97.8	101.0	103.0	101.9	100.4	108.3
80.0	84.7	92.0	97.4	100.9	102.8	101.5	100.1	108.0
85.0	84.5	91.4	97.1	100.6	102.4	101.2	99.6	107.6
90.0	83.6	90.8	96.6	99.9	102.1	101.0	99.1	107.2
95.0	83.6	90.3	95.9	99.5	101.9	100.8	98.6	106.9
100.0	83.1	89.9	95.9	99.5	101.7	100.5	98.2	106.7
105.0	82.4	89.0	95.5	99.4	101.5	100.2	97.8	106.4
110.0	81.5	88.5	95.0	99.2	101.3	100.1	97.5	106.2
115.0	81.3	87.0	93.9	98.4	101.0	100.0	97.2	105.8

MODEL THRUST = 45.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL		OCTAVE BAND SOUND PRESSURE LEVELS 47.4	94.9	189.7	379.5	758.9	1494.2	2988.4	5929.3	11858.5	23717.1
5795.4	85.0(94.8)	84.8	70.66	78.51	80.63	78.66	74.74	64.86	50.15	30.08	-5.97	-68.37	-186.47
4385.7	89.7(89.3)	88.6	72.22	81.20	84.43	82.94	79.17	70.61	58.52	42.60	14.59	-33.35	-108.42
3549.3	91.9(91.4)	90.5	73.19	82.51	86.77	84.93	81.04	72.84	62.25	48.80	25.56	-13.82	-75.31
3000.0	94.1(93.4)	91.7	73.41	82.50	87.47	86.50	83.56	76.39	66.96	55.12	35.01	1.27	-51.17
2615.2	95.6(94.7)	92.6	72.56	81.85	87.85	88.06	85.13	77.94	68.93	58.23	40.31	10.51	-35.58
2333.6	97.0(95.8)	92.7	71.59	80.40	86.73	88.34	86.67	80.67	72.35	62.48	46.17	19.25	-22.20
2121.3	97.8(96.4)	92.8	70.79	79.68	86.05	88.02	87.35	82.32	74.76	65.51	50.42	25.68	-12.28
1958.1	97.6(96.0)	92.0	70.23	78.30	84.40	86.99	86.89	82.19	76.02	67.25	53.08	30.02	-5.25
1831.2	98.2(96.4)	91.9	68.27	76.42	83.05	86.45	87.49	83.77	77.96	69.57	56.12	34.36	1.18
1732.1	97.9(95.9)	91.4	68.76	76.41	82.44	85.66	86.77	83.29	78.61	70.51	57.63	36.88	5.34
1655.1	98.1(95.9)	91.2	68.47	76.14	81.87	85.03	86.40	83.90	79.99	72.11	59.67	39.71	9.44
1596.3	97.7(95.3)	90.7	68.24	75.64	81.09	84.33	85.69	83.79	80.07	72.36	60.26	40.90	11.60
1552.9	97.7(95.3)	90.6	68.66	75.17	80.47	84.04	85.71	83.68	80.13	72.56	60.70	41.79	13.20
1523.1	97.4(95.2)	90.5	68.06	75.34	80.76	84.11	85.67	83.48	80.03	72.54	60.86	42.25	14.15
1505.7	97.4(94.9)	90.3	67.95	74.87	80.54	83.96	85.38	83.30	79.70	72.26	60.67	42.24	14.43
1500.0	97.0(94.6)	89.9	67.12	74.29	80.08	83.24	85.12	83.12	79.24	71.82	60.27	41.90	14.18
1505.7	96.6(94.2)	89.5	67.08	73.42	79.28	82.45	84.87	82.91	79.06	71.23	59.64	41.21	13.40
1523.1	94.2(93.9)	89.2	66.51	73.26	79.18	82.46	84.56	82.67	79.18	70.69	59.00	40.39	12.39
1552.9	95.7(93.4)	88.8	65.59	72.23	78.48	82.41	84.20	82.00	77.50	69.93	58.07	39.16	10.49
1596.3	95.2(92.9)	88.3	64.52	71.48	77.94	82.04	83.76	81.62	76.84	69.16	57.06	37.70	8.39
1659.1	94.3(92.1)	87.5	63.91	69.64	76.11	80.87	83.12	81.16	75.10	68.22	55.78	35.82	5.55

RUN NUMBER	= 537.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 947.000
SECONDARY TEMPERATURE (R)	= 530.000
PRIMARY PRESSURE RATIO	= 3.060
AREA RATIO	= 4.850
VELOCITY RATIO	= .371
PRIMARY VELOCITY (FT/SEC)	= 1330.492
MASS FLOW RATIO	= 1.627
PRIMARY MASS FLOW (LB/SEC)	= .420
THRUST (LBS)	= 34.000
ENVIRONMENTAL TEMPERATURE (R)	= 520.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.330
ENVIRONMENTAL HUMIDITY (PER CENT)	= 58.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .079
INSTRUMENTATION NOISE FLOOR (DB)	= 67.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	6.91941E+00	138.4
500	2.94553E-02	114.7
1000	2.24682E-01	123.5
2000	1.15498E+00	130.6
4000	2.03946E+00	133.1
8000	2.24075E+00	133.5
16000	7.8d407E-01	129.0
31500	4.41685E-01	126.5

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	163.1
20000	166.1
40000	169.1
80000	172.1

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	94.4	102.0	107.8	108.3	106.1	98.9	91.8	113.0
20.0	93.5	102.5	109.2	110.1	107.6	98.8	92.9	114.3
25.0	92.7	102.4	109.4	110.7	108.3	100.2	94.7	114.8
30.0	90.8	101.3	109.0	110.8	108.0	100.6	95.8	114.7
35.0	89.4	99.8	107.3	110.0	107.8	101.2	96.2	113.8
40.0	87.0	96.8	104.9	108.4	107.1	101.2	96.6	112.4
45.0	84.5	93.8	101.7	105.7	107.0	102.6	97.9	111.1
50.0	83.1	91.4	98.6	103.0	106.6	102.3	98.7	109.9
55.0	82.4	89.4	96.3	100.9	106.0	101.5	99.3	109.0
60.0	82.4	88.2	95.2	99.9	104.4	100.3	98.9	107.8
65.0	82.1	88.6	94.6	99.7	105.2	99.9	98.6	108.0
70.0	81.3	87.9	94.4	98.6	103.3	99.8	98.1	106.8
75.0	81.6	87.6	93.6	97.9	102.1	99.2	97.8	106.0
80.0	81.0	87.3	92.9	97.2	101.0	98.9	97.2	105.2
85.0	80.3	87.0	92.7	96.8	100.4	98.2	96.8	104.7
90.0	80.0	86.1	92.2	96.2	99.2	97.8	96.2	104.0
95.0	79.2	85.8	91.7	95.4	98.8	97.3	95.8	103.5
100.0	79.2	85.2	91.3	95.4	98.4	96.8	95.4	103.1
105.0	78.0	84.3	90.8	93.2	98.0	96.4	95.0	102.7
110.0	77.6	83.4	90.3	94.6	97.5	96.1	94.6	102.2
115.0	77.1	82.6	89.1	93.3	97.2	95.8	94.3	101.8

MODEL THRUST = 34.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	20.6	OCTAVE 41.2	BAND 82.5	SOUND 164.9	PRESSURE 329.8	LEVELS 659.7	1298.8	2597.6	5193.9	10387.8	20815.5
5798.6	85.7(85.4)	85.3	67.40	75.75	80.63	80.75	77.53	67.54	53.82	36.11	4.05	-52.22	-142.73
4385.7	90.3(89.8)	89.2	68.93	77.91	84.47	85.10	81.80	70.46	60.03	45.69	20.91	-22.41	-91.63
3549.3	93.4(92.7)	91.6	69.92	79.59	86.56	87.60	84.55	74.73	65.22	53.21	32.42	-3.21	-54.80
3688.0	95.1(94.2)	93.0	69.51	79.99	87.64	89.28	85.94	77.07	68.83	58.21	40.17	9.60	-38.70
2615.2	96.2(95.1)	93.3	69.29	78.88	87.15	89.72	87.01	79.09	71.12	61.48	45.37	18.33	-29.16
2333.6	96.4(95.3)	92.8	67.86	77.63	85.75	89.38	87.37	80.29	73.08	64.16	49.46	25.01	-13.23
2121.3	97.2(95.6)	92.2	66.19	76.90	83.61	87.21	88.12	82.70	75.59	67.20	53.57	31.07	-3.96
1958.1	97.5(95.6)	91.7	65.55	73.80	80.93	85.22	88.46	83.26	77.44	69.47	56.65	35.65	3.09
1831.2	97.6(95.5)	91.3	65.38	72.60	79.26	83.77	88.49	83.07	78.85	71.20	59.02	39.18	9.84
1732.1	97.8(96.7)	90.9	65.86	71.69	78.67	83.19	87.39	82.43	79.13	71.73	60.05	41.13	11.98
1659.1	97.8(95.5)	91.2	65.99	72.50	78.68	83.47	88.61	82.55	79.36	72.13	60.84	42.42	14.63
1598.3	97.8(96.5)	90.3	65.65	72.11	78.56	82.68	87.02	82.41	79.27	72.22	61.21	43.54	16.44
1552.4	96.9(93.8)	89.7	66.27	72.05	77.99	82.21	86.08	82.46	79.30	72.35	61.57	44.29	17.45
1523.1	95.9(93.1)	89.1	65.55	71.90	77.44	81.66	85.16	82.38	78.90	72.03	61.40	44.48	18.09
1509.7	95.6(92.7)	88.7	65.01	71.68	77.35	81.38	84.66	81.74	78.62	71.80	61.25	44.41	18.47
1508.0	94.7(91.8)	88.0	64.70	70.46	76.49	80.43	83.49	81.01	78.14	71.33	60.82	44.03	18.38
1509.7	94.2(91.6)	87.5	63.94	70.05	76.14	79.99	83.21	80.45	77.64	70.92	60.27	43.43	17.99
1522.1	93.8(93.2)	87.0	63.84	69.77	75.91	79.57	82.60	80.26	77.12	70.25	59.62	42.62	16.82
1552.9	93.0(90.2)	86.4	62.66	69.75	75.17	79.31	81.99	79.63	76.49	69.55	58.77	41.64	15.94
1596.9	92.2(89.5)	85.6	61.77	67.57	74.46	78.94	81.23	79.16	75.75	68.89	57.89	40.82	15.42
1655.1	91.4(89.7)	84.8	60.99	66.64	73.41	77.34	80.40	78.66	75.10	67.90	56.68	39.39	14.40

RPM NUMBER	= 530.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 538.000
SECONDARY TEMPERATURE (R)	= 543.000
PRIMARY PRESSURE RATIO	= 1.051
AREA RATIO	= 4.856
VELOCITY RATIO	= 1.020
PRIMARY VELOCITY (FT/SEC)	= 1029.309
MASS FLOW RATIO	= 3.000
PRIMARY MASS FLOW (LB/SEC)	= .420
THRUST (LBS)	= 70.000
ENVIRONMENTAL TEMPERATURE (R)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.290
ENVIRONMENTAL HUMIDITY (PER CENT)	= 58.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .100
INSTRUMENTATION NOISE FLOOR (DB)	= 69.579

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.29756E+01	141.1
500	2.33795E-01	123.7
1000	1.39626E+00	131.4
2000	3.30730E+00	135.2
4000	3.00891E+00	134.8
8000	2.54012E+00	134.0
16000	1.30993E+00	131.8
31500	9.79306E-01	129.9

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	162.7
20000	165.7
40000	168.7
80000	171.7

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	103.1	109.1	111.0	107.7	104.4	98.4	90.5	115.1
20.0	108.0	110.6	112.6	109.4	105.7	99.0	92.7	116.5
25.0	101.6	110.7	113.2	110.3	106.6	100.8	94.5	117.1
30.0	100.1	109.1	113.2	111.1	107.1	101.5	96.0	117.0
35.0	98.2	107.5	112.3	110.9	107.6	102.2	97.5	116.4
40.0	95.7	104.6	110.2	110.2	109.1	103.6	99.7	115.3
45.0	93.3	102.1	107.3	108.d	108.0	104.2	100.4	113.9
50.0	92.2	98.9	104.1	106.1	106.5	103.8	101.2	112.0
55.0	91.0	97.2	102.1	104.9	106.0	104.2	102.5	111.4
60.0	91.0	96.8	101.3	103.7	105.1	103.6	102.8	110.7
65.0	91.4	96.8	100.7	103.2	104.4	103.3	102.3	110.2
70.0	91.0	96.1	100.2	102.4	104.0	103.1	102.0	109.7
75.0	90.5	95.9	99.7	101.8	103.3	102.7	100.9	109.1
80.0	90.4	95.2	99.1	101.2	103.0	102.3	100.4	108.7
85.0	89.6	94.8	98.7	101.1	102.6	101.9	100.5	108.4
90.0	89.1	94.1	98.0	100.5	102.2	101.5	100.3	108.0
95.0	88.0	93.6	97.8	100.3	101.9	101.1	100.8	107.8
100.0	87.6	93.1	97.1	99.6	101.6	100.7	99.9	107.2
105.0	86.9	92.6	97.1	99.6	101.3	100.4	99.4	107.0
110.0	86.1	91.6	96.5	99.3	101.1	100.1	99.1	106.6
115.0	85.4	90.1	95.8	98.8	100.9	100.0	98.8	106.3

MODEL THRUST = 70.000 FULL SCALE THRUST = 20000.000

Lw	PNDB	OASPL	29.6	OCTAVE 59.2	BAND 118.3	SOUND 236.6	PRESSURE 473.3	LEVELS 946.6	1863.6	3727.1	7395.1	14790.2	29580.4
5709.6	84.1(84.0)	84.3	72.93	78.90	80.54	76.59	71.54	61.08	43.15	18.75	-24.42	-97.31	-208.95
4389.7	86.8(86.6)	88.3	75.30	82.81	86.62	81.01	75.94	65.83	51.88	32.68	-.71	-56.60	-141.42
3549.3	91.9(91.6)	90.7	75.67	84.78	87.13	83.81	79.03	70.45	58.04	41.93	14.34	-31.47	-101.00
3000.0	94.2(93.8)	92.1	75.72	84.48	86.67	86.19	81.25	73.35	62.65	48.57	24.78	-14.40	-73.64
2615.2	95.6(95.0)	92.7	74.95	84.24	88.90	87.28	83.19	75.76	66.47	53.82	32.69	-1.85	-53.47
2333.6	96.5(95.8)	92.5	73.41	82.30	87.84	87.61	84.75	78.70	70.53	58.91	39.74	8.59	-38.15
2121.3	96.7(95.7)	91.7	71.86	80.70	85.76	87.03	85.55	80.11	72.71	61.88	44.18	15.59	-27.17
1958.1	96.3(95.0)	90.3	71.45	78.16	83.28	85.04	84.87	80.89	74.63	64.40	47.82	21.21	-18.90
1831.2	96.4(95.3)	90.1	70.88	77.01	81.84	84.48	85.06	81.78	76.89	67.13	51.44	26.35	-10.97
1732.1	97.0(95.3)	89.9	71.37	77.10	81.61	83.79	84.60	82.04	77.99	68.59	53.59	29.70	-5.77
1655.1	97.1(95.3)	89.8	72.12	77.90	81.16	83.68	84.37	82.00	78.12	69.91	54.84	31.58	-2.44
1596.3	97.2(95.3)	89.6	72.08	77.12	81.14	83.18	84.27	82.18	78.27	70.38	55.31	33.06	.14
1552.9	96.4(94.7)	89.3	71.81	77.21	80.96	82.96	83.84	82.08	77.18	68.45	54.69	32.96	.45
1523.1	96.4(94.6)	89.0	71.85	76.89	80.52	82.49	83.76	81.47	77.30	68.88	55.12	33.75	2.20
1505.7	96.5(94.6)	88.9	71.12	75.30	80.22	82.43	83.47	81.60	77.59	69.03	55.60	34.44	3.21
1500.0	96.2(94.3)	88.6	70.71	75.43	79.56	81.49	83.09	81.24	77.43	68.89	55.50	34.41	3.29
1505.7	96.3(94.3)	88.1	69.54	75.13	79.37	81.07	82.75	80.77	77.03	69.37	55.93	34.77	3.55
1523.1	96.6(93.6)	87.5	69.08	74.43	78.47	80.13	82.37	80.26	76.80	68.17	56.62	35.25	3.64
1552.9	96.4(92.6)	87.1	68.16	73.46	78.13	80.80	81.87	79.77	76.04	67.35	53.56	31.86	-.45
1596.3	96.1(92.2)	86.5	68.18	72.64	77.45	80.15	81.42	79.16	75.39	66.50	52.44	30.19	-2.74
1655.1	95.2(91.4)	85.7	68.10	70.74	76.44	79.23	80.86	78.67	74.57	65.49	50.99	28.83	-5.44

RUN NUMBER	= 540.000
AXIAL POSITION OF PRIMARY NNT, SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 530.000
SECONDARY TEMPERATURE (R)	= 541.000
PRIMARY PRESSURE RATIO	= 3.060
AREA RATIO	= 9.700
VELOCITY RATIO	= .972
PRIMARY VELOCITY (FT/SEC)	= 1332.231
MASS FLOW RATIO	= 2.025
PRIMARY MASS FLOW (LB/SEC)	= .420
THRUST (LBS)	= 40.000
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	= 54.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .050
INSTRUMENTATION NOISE FLOOR (DB)	= 83.559

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.09026E+00	136.1
500	9.11634E-02	119.6
1000	1.92628E-01	122.8
2000	6.72306E-01	128.3
4000	9.90669E-01	130.0
8000	1.16431E+00	130.7
16000	5.81035E-01	127.6
31500	3.98130E-01	126.

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.1
20000	163.1
40000	166.1
80000	169.1

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
19.0	94.7	102.4	104.9	104.3	100.8	97.3	92.4	109.9
20.0	94.3	101.9	106.1	105.8	101.9	96.7	93.2	110.8
25.0	93.5	101.9	106.8	106.1	102.2	96.1	93.9	111.1
30.0	91.4	99.8	105.7	106.0	102.3	96.5	94.9	110.5
35.0	89.3	98.0	104.8	106.4	103.0	97.4	95.9	110.4
40.0	87.2	95.8	102.3	105.0	103.4	98.5	95.6	109.3
45.0	85.4	93.3	100.4	104.1	106.0	100.7	97.0	109.8
50.0	83.8	91.0	97.6	101.7	105.3	101.7	98.6	108.9
55.0	82.8	89.1	95.8	99.9	104.1	100.5	99.0	107.8
60.0	82.3	88.3	94.7	98.8	103.7	100.0	99.0	107.2
65.0	82.1	88.4	95.0	98.8	102.3	99.9	98.5	106.6
70.0	82.3	88.1	93.8	97.6	99.9	99.2	97.8	105.2
75.0	81.2	87.4	92.6	95.9	98.1	98.5	97.1	104.0
80.0	81.4	87.2	91.9	95.7	98.2	97.8	96.6	103.7
85.0	100.4	86.4	91.9	95.1	97.8	97.1	96.0	105.0
90.0	80.2	86.3	91.3	94.4	97.6	96.5	95.6	102.7
95.0	80.0	86.2	91.7	94.1	97.0	95.9	95.2	102.2
100.0	79.3	85.5	91.3	94.1	96.7	95.5	94.8	101.9
105.0	79.1	84.9	90.6	93.7	96.3	95.2	94.3	101.5
110.0	78.1	84.2	89.9	93.2	96.0	94.9	94.0	101.1
115.0	77.8	83.3	89.0	92.4	95.7	94.6	93.8	100.7

MODEL THRUST = 40.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 22.4	44.7	89.4	178.9	357.8	715.5	1408.7	2817.4	5590.2	11180.3	22360.7
8795.6	81.8(81.5)	81.5	67.02	74.63	77.02	76.02	71.06	64.72	52.53	33.48	-.84	-60.61	-155.72
8385.7	86.1(85.5)	84.9	68.96	76.54	80.70	80.63	75.27	67.73	58.74	43.60	16.90	-29.07	-101.77
8369.3	88.8(88.0)	87.2	70.05	78.44	83.28	82.26	77.63	69.67	63.02	50.19	28.01	-9.76	-69.16
3660.8	90.5(89.8)	88.1	69.44	77.78	83.60	83.70	79.36	71.93	66.61	55.30	36.09	3.70	-46.98
2615.2	92.3(91.0)	89.1	68.66	77.20	83.01	85.28	81.66	74.61	69.00	59.36	42.23	13.61	-30.95
2333.5	93.1(91.8)	89.0	67.35	75.42	82.45	85.00	82.89	75.69	70.68	61.42	45.41	19.95	-20.14
2121.3	95.0(94.1)	90.1	66.38	74.29	81.38	84.85	86.36	79.91	73.61	64.73	50.27	26.49	-10.22
1958.1	96.8(96.2)	89.8	65.56	72.72	79.26	83.16	86.40	81.74	76.19	67.77	54.19	32.01	-2.11
1831.2	99.4(98.7)	89.2	65.08	71.43	78.00	81.97	85.88	81.21	77.53	69.43	56.54	35.60	3.90
1732.1	98.0(97.8)	89.1	65.07	71.07	77.45	81.41	85.94	81.33	78.15	70.36	58.00	38.03	7.50
1655.1	95.7(93.3)	88.4	65.30	71.55	78.13	81.84	84.92	81.66	78.20	70.62	58.68	39.46	10.16
1596.3	96.7(92.1)	87.8	65.78	71.80	77.27	80.93	82.92	81.35	77.96	70.54	58.92	40.28	11.91
1552.9	93.4(91.1)	86.8	64.96	71.08	76.33	79.51	81.39	80.92	77.56	70.26	58.87	40.65	12.98
1523.1	93.6(90.9)	86.7	65.31	71.05	75.76	79.45	81.67	80.39	77.32	70.10	58.67	40.95	13.76
1505.7	94.0(91.4)	86.4	64.37	70.41	75.44	78.93	81.37	79.81	76.84	69.67	58.53	40.78	13.45
1500.0	92.4(90.2)	85.8	64.26	70.36	75.13	78.24	81.19	79.27	76.47	69.32	58.21	40.52	13.68
1505.7	92.6(89.8)	85.6	64.01	70.19	75.04	77.93	80.52	78.61	76.05	68.88	57.75	40.00	13.07
1523.1	91.6(89.2)	85.0	63.24	69.39	75.13	77.47	80.10	78.09	75.53	68.31	57.08	39.16	11.95
1552.9	91.3(88.6)	84.4	62.83	68.98	74.10	77.26	79.55	77.63	74.75	67.45	56.06	37.86	10.16
1596.3	90.2(87.9)	83.7	61.57	67.86	73.18	76.43	79.00	77.03	74.13	66.71	55.08	36.65	8.49
1655.1	89.2(87.2)	82.9	60.98	66.85	72.19	75.65	78.36	76.39	73.47	65.89	53.94	35.73	9.43

RUN NUMBER	= 547.000
AXIAL POSITION OF PRIMARY WRT SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (R)	= 535.000
SECONDARY TEMPERATURE (R)	= 537.000
PRIMARY PRESSURE RATIO	= 2.044
AREA RATIO	= 6.7MM
VELOCITY RATIO	= .648
PRIMARY VELOCITY (FT/SEC)	= 1108.397
MASS FLOW RATIO	= 5.042
PRIMARY MASS FLOW (LB/SEC)	= .420
THRUST (LBS)	= 92.000
ENVIRONMENTAL TEMPERATURE (R)	= 523.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	= 50.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .079
INSTRUMENTATION NOISE FLOOR (DB)	= 67.587

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	8.28809E+00	139.2
500	3.92114E-01	125.9
1000	1.53402E+00	131.9
2000	2.26210E+00	133.5
4000	1.83951E+00	132.6
8000	1.30729E+00	131.2
16000	6.68296E-01	128.2
31500	2.84775E-01	124.5

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	159.5
20000	162.6
40000	165.6
80000	168.6

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	105.3	109.3	106.8	102.0	96.9	89.7	85.5	112.7
20.0	105.5	110.9	109.8	104.7	99.6	91.9	87.6	114.7
25.0	104.4	110.8	110.7	105.7	100.6	93.9	89.6	115.0
30.0	102.7	109.5	111.0	106.8	101.6	95.8	92.1	114.8
35.0	100.8	108.1	109.7	107.9	103.2	97.9	93.8	114.2
40.0	98.7	105.3	108.6	107.7	104.4	99.3	95.0	113.3
45.0	96.0	102.4	106.2	106.6	104.3	99.7	95.4	111.7
50.0	94.0	100.0	104.1	105.4	104.4	100.8	96.8	110.7
55.0	92.3	98.3	103.0	104.1	103.9	100.8	97.1	109.8
60.0	92.3	97.4	101.7	103.2	103.1	100.8	97.3	109.1
65.0	92.1	97.1	101.4	102.8	102.6	100.2	96.4	108.6
70.0	91.8	96.8	100.3	101.8	101.8	99.7	96.5	107.8
75.0	91.3	96.3	99.8	101.3	101.1	99.4	96.2	107.3
80.0	91.4	96.1	99.4	100.7	100.5	99.0	95.8	106.9
85.0	90.7	95.6	99.3	100.8	100.2	99.0	95.3	106.7
90.0	90.3	95.2	98.7	100.3	100.1	98.7	95.0	106.4
95.0	89.4	94.3	98.1	99.4	99.7	98.0	94.5	105.7
100.0	89.2	94.2	97.6	99.1	99.6	97.4	93.4	105.3
105.0	88.9	93.4	97.4	98.8	99.4	96.9	93.0	105.0
110.0	87.7	92.5	96.6	96.2	99.6	96.9	93.3	104.7
115.0	87	92.2	96.7	98.0	99.2	96.4	92.6	104.4

MODEL THRUST = 92.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 33.9	67.8	135.6	271.3	542.6	1085.2	2170.4	4272.9	8477.9	16955.8	33911.6
5795.6	78.5(78.5)	81.1	73.90	77.83	75.10	69.49	62.23	49.67	33.76	6.27	-41.82	-121.71	-241.71
4385.7	84.5(84.4)	85.5	76.59	81.94	80.61	74.91	68.17	54.65	43.32	21.78	-15.33	-76.52	-166.06
3569.3	87.0(87.4)	87.7	77.30	83.67	83.42	77.90	71.52	61.53	50.03	32.03	-1.42	-48.67	-123.32
3000.0	89.9(89.8)	88.8	77.09	83.40	85.17	80.55	74.32	65.74	55.92	40.24	13.01	-28.90	-92.46
2614.2	91.7(91.3)	89.3	76.36	83.40	85.13	82.08	77.31	68.84	60.17	46.12	22.77	-16.92	-70.75
2333.4	92.7(92.2)	89.3	75.26	81.87	85.03	83.78	79.59	72.39	63.37	50.50	29.35	-6.61	-56.72
2121.3	92.7(92.1)	88.8	73.69	79.75	83.62	83.67	80.49	73.95	65.36	53.38	33.88	2.73	-41.09
1954.1	93.0(92.1)	88.0	72.10	78.06	82.08	83.09	81.38	75.93	67.98	56.71	38.47	9.49	-33.03
1831.2	93.2(92.1)	87.6	70.93	76.95	81.52	82.66	81.58	76.71	69.36	58.60	41.36	14.66	-29.90
1732.1	93.2(92.0)	87.3	71.42	76.90	80.72	82.06	81.26	77.34	70.33	60.01	43.54	17.56	-28.41
1654.1	93.2(92.0)	87.3	71.64	76.79	80.81	82.03	81.21	77.59	70.16	60.17	44.29	19.31	-27.09
1594.3	93.0(91.7)	86.8	71.69	76.49	80.14	81.36	80.71	77.20	70.77	61.02	45.41	21.43	-25.40
1552.4	92.8(91.6)	86.6	71.39	76.14	79.79	81.11	80.31	77.15	70.90	61.33	46.25	22.65	-24.70
1523.1	92.6(91.1)	86.3	71.65	76.39	79.62	80.66	79.90	76.90	70.62	60.99	46.14	22.93	-24.82
1505.7	92.4(91.0)	86.3	71.87	75.90	79.58	80.47	79.76	77.16	70.39	61.02	46.31	23.33	-24.25
1500.1	92.1(90.8)	86.4	70.69	75.98	79.48	80.43	79.67	76.47	70.13	60.80	46.15	23.23	-24.06
1504.3	91.8(90.1)	85.2	69.76	74.68	78.60	79.66	79.18	76.12	69.55	60.18	45.47	22.69	-24.46
1523.1	90.9(89.6)	84.7	69.62	74.61	77.97	79.06	78.69	75.59	68.76	59.40	44.85	20.86	-27.91
1552.4	90.6(89.2)	84.3	69.01	73.69	77.38	78.61	78.47	74.76	67.64	58.12	43.84	19.44	-28.91
1594.3	89.9(88.6)	83.6	67.54	72.15	76.34	77.76	78.31	74.43	67.55	57.48	42.34	18.21	-27.04
1654.1	89.2(88.0)	83.0	67.12	71.77	76.12	77.44	77.77	73.48	66.37	56.38	40.60	15.55	-26.47

RUN NUMBER	= 502.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= -4.100
PRIMARY TEMPERATURE (K)	= 536.000
SECONDARY TEMPERATURE (K)	= 532.000
PRIMARY PRESSURE RATIO	= 1.451
AREA RATIO	= 9.789
VELOCITY RATIO	= .1.018
PRIMARY VELOCITY (FT/SEC)	= 1019.448
MASS FLOW RATIO	= 0.721
PRIMARY MASS FLOW (LB/SEC)	= .422
THRUST (LBS)	= 112.000
ENVIRONMENTAL TEMPERATURE (K)	= 521.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	= 50.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .162
INSTRUMENTATION NOISE FLOOR (DB)	= 72.631

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.72149E+01	144.3
500.	1.14218E+00	130.6
1000	4.80740E+00	136.8
2000	6.71124E+00	138.3
4000	5.23371E+00	137.2
8000	5.39078E+00	137.3
16000	2.42219E+00	134.7
31500	1.17351E+00	130.7

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	163.9
20000	166.9
40000	169.9
80000	172.9

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	110.0	114.0	112.5	107.1	102.0	93.8	91.9	117.0
20.0	110.3	115.7	114.8	109.4	104.9	98.3	96.2	119.4
25.0	109.0	115.9	115.9	110.7	106.2	100.1	95.9	120.1
30.0	107.4	114.9	116.0	111.8	107.1	101.6	97.8	119.9
35.0	105.3	112.5	116.0	112.3	108.4	103.8	98.8	118.9
40.0	102.9	110.8	112.9	112.2	109.6	105.3	101.5	117.9
45.0	100.5	107.4	111.1	111.6	109.9	106.4	102.8	117.0
50.0	98.2	104.2	108.5	109.6	108.9	105.9	102.7	116.0
55.0	96.9	102.8	106.9	108.3	108.2	106.2	103.3	114.5
60.0	96.3	102.0	106.0	107.6	108.0	106.0	103.6	114.0
65.0	96.1	101.2	105.2	106.6	107.1	106.0	102.9	113.4
70.0	96.2	101.0	104.6	106.5	107.0	106.7	102.0	113.1
75.0	96.2	100.6	104.0	105.8	106.2	106.1	101.6	112.8
80.0	96.6	100.2	103.8	105.2	106.4	106.2	101.2	112.3
85.0	96.9	99.8	103.1	104.9	105.9	105.8	101.3	112.2
90.0	96.3	99.1	102.8	104.3	107.4	105.8	101.2	112.6
95.0	96.1	98.1	101.8	104.1	107.8	106.5	100.6	111.7
100.0	93.2	98.2	101.7	103.4	107.7	103.7	99.6	111.4
105.0	92.6	98.0	101.3	103.0	107.8	103.3	99.5	111.2
110.0	92.6	97.6	101.1	103.4	108.1	103.7	99.7	111.6
115.0	91.9	96.9	100.9	103.5	108.0	103.3	99.1	111.7

MODEL THRUST = 112.000 FULL SCALE THRUST = 20000.000

L.	PNDB.	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 37.4	74.8	149.7	299.3	598.7	1197.3	2337.2	4714.8	9338.1	18748.3	37618.8
8709.6	83.9(83.9)	85.3	78.42	81.47	79.91	73.92	66.66	63.72	30.84	0.92	-44.96	-139.11	-259.10
8385.7	89.2(89.1)	89.5	80.82	85.42	84.74	78.58	72.26	61.11	47.13	23.76	-16.23	-81.39	-177.53
8069.3	92.4(92.3)	91.8	81.82	87.76	87.73	81.97	75.94	66.09	53.93	30.46	1.58	-51.88	-138.18
7808.4	94.8(94.7)	93.1	82.44	89.62	89.28	84.67	78.64	70.88	59.49	42.58	10.26	-31.27	-97.97
7615.2	96.8(96.6)	93.2	82.88	87.16	89.34	86.66	81.48	73.80	64.23	49.07	24.82	-10.15	-74.99
7333.6	97.1(96.8)	93.0	76.80	85.70	88.48	87.36	83.03	77.88	67.98	54.12	31.46	-4.83	-67.19
7121.3	97.7(97.1)	92.7	77.65	83.65	87.48	87.67	85.09	79.31	70.93	58.88	37.19	4.12	-63.93
7058.1	97.0(96.2)	91.6	75.62	81.44	85.56	86.36	86.86	79.41	72.26	60.10	40.59	9.83	-36.75
7031.2	97.1(96.1)	91.8	76.69	80.98	84.84	85.69	86.88	80.86	73.84	62.03	43.92	15.83	-24.85
7032.1	97.5(96.5)	91.1	74.62	80.27	84.22	85.17	85.13	82.16	75.09	64.45	46.66	18.89	-20.89
6954.1	97.4(96.3)	90.8	74.83	78.44	83.85	84.48	84.72	82.78	75.68	66.30	47.93	20.97	-17.17
6946.3	97.5(96.3)	90.8	75.24	78.46	83.13	84.08	83.66	83.06	76.84	66.27	47.81	22.18	-16.72
6992.4	97.1(96.0)	90.5	75.68	78.42	83.17	83.98	84.08	82.73	76.67	66.46	48.26	23.35	-17.63
6923.1	97.3(96.1)	90.5	75.85	78.61	83.08	84.26	84.84	83.04	76.88	66.53	48.58	24.88	-11.25
6905.7	97.5(96.3)	90.8	76.41	78.35	82.92	84.43	85.47	82.77	76.86	66.87	48.17	24.83	-11.15
6908.0	97.4(96.3)	90.3	73.87	78.59	82.29	83.56	85.42	82.21	76.83	66.68	49.21	24.95	-8.81
6905.7	97.3(96.1)	90.1	73.59	77.43	81.35	83.29	86.36	81.67	76.87	66.82	49.32	27.48	-11.88
6923.1	96.7(95.7)	89.7	72.59	77.41	81.33	82.91	86.10	81.42	75.82	66.46	47.18	27.51	-12.44
6992.4	96.4(95.4)	89.3	72.80	77.28	81.62	81.48	86.61	79.48	72.73	62.92	46.62	21.61	-16.97
6946.3	96.4(95.4)	89.7	71.82	76.34	82.38	82.84	87.84	78.44	72.63	62.82	45.55	19.83	-15.87
6954.1	96.1(95.2)	89.2	73.55	75.44	79.67	81.48	86.98	78.11	71.27	60.53	43.67	17.11	-21.36

MACH NUMBER	= 600.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= NONE
PRIMARY TEMPERATURE (R)	= 530.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 1075.723
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= .248
THRUST (LBS)	= 8.018
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	= 59.000
CALIBRATION FACTOR (MV TO DYNES/SQ CM)	= .010
INSTRUMENTATION NOISE FLOOR (DB)	= 50.5DB

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)	OVERALL SOUND POWER LEVEL SCALED FOR THRUST	
OVERALL	5.473846E-01	127.4	THRUST	POWER LEVEL(DB)
			10000	136.3
500	1.620792E-03	102.1	20000	141.0
1000	1.077464E-02	110.3	40000	144.4
2000	6.322322E-02	118.0	80000	147.4
4000	1.440944E-01	121.5		
8000	1.722216E-01	122.4		
16000	1.[illegible]E-01	121.[illegible]		
31500	4.[illegible]E-02	116.9		

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							OVER ALL
	500	1000	2000	4000	8000	16000	31500	
15.0	99.0	89.1	95.3	97.6	99.3	96.6	85.9	102.8
20.0	99.2	89.2	94.8	98.8	98.2	91.3	86.2	102.7
25.0	98.8	87.8	93.7	97.1	97.1	92.4	87.1	102.9
30.0	97.3	86.6	93.8	96.3	96.1	93.2	87.6	102.8
35.0	98.0	86.9	93.1	97.2	97.0	93.9	88.8	102.9
40.0	98.8	89.1	93.1	95.8	97.8	94.6	89.8	101.2
45.0	97.9	85.9	93.2	95.9	96.9	93.6	89.9	100.2
50.0	97.8	89.8	92.8	94.3	96.9	93.2	89.1	99.1
55.0	97.8	90.5	89.6	93.8	96.1	92.6	88.8	97.9
60.0	96.9	88.7	89.8	89.8	92.8	92.6	88.5	97.8
65.0	97.8	87.7	89.8	90.8	91.9	91.8	87.9	98.5
70.0	96.5	87.8	89.8	89.9	91.1	90.3	87.9	96.2
75.0	95.3	87.8	83.9	87.7	90.3	89.3	87.8	95.8
80.0	95.8	87.6	83.8	87.2	89.9	87.9	87.9	95.8
85.0	95.1	87.8	83.8	86.9	89.8	87.6	86.9	95.8
90.0	94.9	86.9	83.1	86.8	88.3	88.1	87.9	94.3
95.0	96.1	86.2	82.7	86.5	88.9	88.9	88.9	94.3
100.0	95.6	86.9	81.9	86.2	88.8	88.1	87.3	94.6
105.0	94.9	86.2	81.2	85.4	88.2	87.9	85.8	93.3
110.0	94.8	86.1	80.9	84.9	86.9	85.9	83.1	91.5
115.0	94.8	85.8	79.9	81.8	84.1	83.6	81.8	89.3

MODEL THRUST = 8.018 FULL SCALE THRUST = 25680.286

L.	PWL.	DB.	OCTAVE BAND SOUND PRESSURE LEVELS										
3798.6	99.31	98.11	88.9	94.16	99.48	95.83	96.76	94.18	87.18	87.18	93.78	93.97	2.22 -92.9
4305.7	93.51	92.21	86.1	86.87	94.81	94.18	89.18	91.82	91.21	87.82	86.99	83.36	18.77 -23.62
3969.3	96.51	95.21	88.2	89.12	91.33	95.48	92.15	88.36	95.81	89.15	91.22	89.82	29.17 -5.74
3888.2	96.31	95.01	87.4	87.27	91.34	94.98	93.98	92.83	91.42	88.45	87.12	93.96	34.11 -1.15
3615.2	95.21	93.91	85.2	91.45	91.13	94.31	93.39	93.21	93.43	93.78	89.18	87.85	41.93 -10.13
3133.2	93.81	92.51	84.2	81.11	90.31	92.48	92.48	93.92	94.43	94.27	88.48	88.83	45.58 -21.58
2121.4	91.41	90.11	83.1	80.94	87.25	91.94	93.76	91.32	96.32	93.87	87.93	89.09	47.45 -31.45
1656.1	91.81	90.51	87.8	88.17	89.65	95.72	99.93	93.25	91.42	96.43	91.26	83.57	51.99 -38.32
1031.2	91.51	90.21	87.8	88.32	87.97	95.39	94.96	92.32	91.37	95.73	91.79	84.28	52.27 -36.42
1732.1	91.41	90.11	87.1	86.81	87.55	95.25	94.49	92.22	91.53	95.28	92.68	84.98	53.37 -36.41
1411.1	91.41	90.11	86.8	86.78	87.93	94.93	94.96	91.92	91.36	95.35	92.51	85.31	51.37 -35.0
1508.3	91.71	90.41	86.9	86.92	88.25	94.93	94.93	91.62	91.36	95.16	92.47	85.51	54.71 -37.37
1552.4	91.61	90.31	85.8	86.76	88.28	94.85	94.35	91.66	91.61	95.14	92.42	85.18	55.82 -38.67
1523.1	91.31	90.01	85.8	86.42	87.68	94.63	94.03	91.67	91.13	95.17	92.28	85.39	55.38 -39.42
1545.9	91.41	90.11	85.9	86.33	87.32	94.68	93.69	91.91	91.15	95.42	92.15	85.51	55.18 -39.48
1586.2	91.71	90.41	85.6	86.88	87.40	94.88	93.74	92.13	91.91	95.32	92.45	86.27	55.66 -39.19
1515.9	91.41	90.11	85.7	86.11	87.13	94.58	93.43	92.44	91.63	95.29	92.33	85.89	54.93 -39.17
1523.1	91.41	90.11	85.8	86.61	86.97	94.61	93.53	92.31	91.91	95.44	92.19	85.91	55.02 -39.33
1569.6	91.61	90.31	85.9	86.92	87.33	94.87	93.74	92.74	92.07	95.45	92.33	85.97	55.08 -39.48
1599.1	91.71	90.41	86.1	87.30	87.33	94.95	94.09	92.73	92.42	95.67	92.26	86.18	55.53 -39.18
1644.1	91.91	90.61	86.3	87.99	87.93	95.09	94.49	93.13	92.84	95.78	92.49	86.48	56.02 -39.42

RUN NUMBER	= 601.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= NOZZ
PRIMARY TEMPERATURE (R)	= 537.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 1221.410
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= .298
THRUST (LBS)	= 11.316
ENVIRONMENTAL TEMPERATURE (R)	= 525.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	= 59.000
CALIBRATION FACTOR (DV TO DY/SQ CM)	= .032
INSTRUMENTATION NOISE FLOOR (DB)	= 59.573

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	1.31644E+00	131.2
500	3.047108E-03	104.8
1000	2.362338E-02	113.7
2000	1.084796E-01	122.0
4000	3.854645E-01	125.9
8000	4.328038E-01	126.4
16000	2.230935E-01	123.5
31500	4.038322E-02	116.9

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	160.7
20000	163.7
40000	166.7
80000	169.7

EXPERIMENTAL DATA

TABLE XXC-140 OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE BAND 1000	2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
10.0	89.3	98.9	100.1	104.2	100.6	95.2	88.8	108.4
20.0	88.9	98.2	100.3	102.9	101.6	95.6	88.3	107.8
25.0	88.1	97.7	100.1	103.5	101.8	96.2	90.1	107.6
30.0	88.6	98.1	99.1	102.9	102.6	96.8	91.2	107.8
35.0	89.3	98.5	98.3	102.7	102.5	97.6	91.8	107.1
40.0	87.2	97.8	96.1	100.8	101.8	97.8	92.4	106.8
45.0	75.6	84.7	93.5	96.2	100.1	97.5	92.9	106.3
50.0	76.6	92.6	91.3	98.6	98.6	96.9	92.8	102.8
55.0	72.9	81.6	89.6	96.6	97.0	95.8	92.2	101.0
60.0	72.9	89.9	89.8	93.6	95.8	95.2	92.0	100.2
65.0	72.9	84.6	89.9	92.5	94.8	93.8	90.6	99.8
70.0	72.6	88.2	87.6	91.6	94.0	93.2	89.7	99.0
75.0	73.6	89.2	87.1	91.0	93.2	92.3	89.0	98.2
80.0	72.3	88.3	86.6	90.3	92.7	91.7	88.3	97.7
85.0	72.3	88.1	86.2	89.9	92.4	91.7	88.7	97.3
90.0	72.0	79.5	86.2	89.8	92.9	91.1	88.8	97.1
95.0	71.2	79.1	85.8	89.2	91.6	90.8	87.8	96.5
100.0	71.6	78.1	85.4	89.0	91.6	90.8	87.3	96.1
105.0	70.4	77.8	84.4	88.7	91.1	89.8	86.8	95.7
110.0	69.6	76.9	83.6	87.6	90.3	88.7	85.4	94.7
115.0	68.1	76.0	81.1	86.7	88.3	87.0	83.8	92.9

MODEL THRUST = 11.316 FULL SCALE THRUST = 20000.000

L0				OCTAVE 22.8	BAND 45.6	SOUND 91.1	PRESSURE 182.3	LEVELS 364.6	729.2	1458.4	2972.8	5945.6	11890.5
3190.0	83.71	82.01	83.8	81.88	76.42	77.79	79.74	77.98	71.08	61.37	50.46	38.81	-5.88	-68.33
3338.7	87.51	85.61	86.6	83.87	77.55	80.00	82.49	81.09	74.33	63.35	50.57	40.82	12.93	-39.52
3349.3	88.31	87.01	86.1	84.08	77.97	82.12	83.90	83.07	77.07	67.07	53.13	47.01	28.35	-15.11
3388.8	92.21	90.51	88.3	83.87	78.63	82.53	86.33	85.13	79.26	71.05	59.45	53.13	32.83	-.88
3419.2	90.41	92.31	91.5	83.96	78.29	82.46	87.29	86.89	81.19	74.18	67.53	59.93	39.45	8.39
3333.8	86.71	92.41	91.4	84.05	77.98	81.72	88.43	87.19	82.08	75.97	69.79	60.81	43.59	18.54
3121.3	84.61	91.91	91.5	84.07	78.18	79.47	88.04	86.38	83.35	77.43	71.63	62.37	47.14	28.15
3450.1	84.71	91.61	89.4	81.58	80.75	78.42	83.64	85.58	83.61	74.22	72.55	63.85	49.58	28.49
3031.2	84.31	91.11	89.8	80.92	80.47	77.36	82.11	84.55	83.00	74.31	72.61	64.49	50.93	29.12
1732.1	84.31	90.91	89.7	81.28	82.16	77.13	81.89	83.78	82.97	74.88	73.29	65.26	52.27	31.44
1645.1	83.61	89.81	89.0	81.09	82.27	76.81	81.47	83.25	81.86	74.73	73.47	65.88	52.12	32.12
1598.7	83.51	89.71	88.7	81.59	82.17	76.63	81.36	82.78	81.62	74.23	73.18	65.62	53.21	33.42
1592.9	83.61	89.21	87.2	81.83	82.41	76.35	80.17	82.19	81.42	73.59	72.87	66.06	53.88	34.15
1523.1	82.91	88.61	86.8	81.57	82.76	76.09	79.89	81.93	80.97	73.32	72.65	66.02	53.86	34.19
1585.7	82.61	87.71	86.8	81.32	82.93	75.71	79.27	81.68	80.82	74.71	71.73	64.35	52.87	34.23
1588.7	82.61	86.31	86.6	81.08	82.87	75.34	78.94	81.53	80.35	74.38	71.35	63.98	52.33	33.47
1585.7	82.61	87.71	86.6	80.91	82.82	75.21	78.93	81.58	80.56	74.29	72.03	63.86	51.77	33.31
1577.1	82.91	87.11	85.3	80.96	82.56	74.99	78.86	81.06	79.96	74.19	71.11	62.08	50.93	32.65
1552.9	84.11	86.91	86.7	80.96	82.77	75.14	78.96	80.98	79.79	74.34	69.26	61.73	49.70	30.63
1548.3	84.71	86.31	83.6	79.56	81.63	74.92	78.53	79.15	78.41	73.15	68.11	60.99	47.91	29.51
1558.1	84.91	83.61	81.3	77.76	81.09	74.51	78.29	78.74	78.29	72.92	69.07	57.09	45.31	29.31

RUN NUMBER	=	602.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	NONE
PRIMARY TEMPERATURE (R)	=	535.000
SECONDARY TEMPERATURE (R)	=	NONE
PRIMARY PRESSURE RATIO	=	3.500
AREA RATIO	=	NONE
VELOCITY RATIO	=	NONE
PRIMARY VELOCITY (FT/SEC)	=	1318.4M2
MASS FLOW RATIO	=	NONE
PRIMARY MASS FLOW (LM/SEC)	=	.358
THRUST (LBS)	=	14.673
ENVIRONMENTAL TEMPERATURE (R)	=	522.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	=	59.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	=	.071
INSTRUMENTATION NOISE FLOOR (DB)	=	86.580

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	5.460436E+00	137.4
500	6.245376-03	108.0
1000	5.450106-02	117.4
2000	4.463806-01	126.5
4000	1.529016+00	131.8
8000	2.332036+00	133.7
16000	7.762406-01	128.9
31500	3.180236-01	125.0

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	165.7
20000	168.7
40000	171.7
80000	174.7

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	87.1	98.7	105.0	108.1	108.5	101.4	95.5	112.2
20.0	88.1	98.5	105.3	109.4	111.3	102.7	96.9	114.8
25.0	88.3	98.3	106.0	109.8	111.6	102.7	96.8	114.8
30.0	83.9	93.9	104.2	109.7	111.0	102.7	97.1	114.3
35.0	82.1	92.3	102.2	108.7	110.8	102.7	97.2	113.8
40.0	80.2	90.3	100.6	107.8	109.0	102.7	97.7	111.8
45.0	78.2	87.9	97.0	104.6	105.8	102.8	96.7	110.0
50.0	77.4	86.1	94.3	101.4	102.2	102.0	96.4	108.2
55.0	76.1	84.6	93.6	99.2	103.2	101.1	98.2	107..
60.0	76.1	84.4	92.5	97.9	102.9	99.6	97.2	106.2
65.0	75.6	83.5	92.0	96.9	99.9	99.2	96.3	104.6
70.0	75.6	83.1	91.7	96.6	99.1	98.3	95.3	103.9
75.0	75.6	83.0	91.0	95.6	98.6	98.0	94.7	103.3
80.0	75.1	84.0	90.5	96.7	98.0	97.3	94.1	102.7
85.0	75.1	83.1	90.2	96.4	97.1	96.7	93.6	102.1
90.0	75.1	82.6	90.0	93.6	97.6	96.3	93.2	102.0
95.0	73.9	81.9	89.3	93.5	96.7	95.9	92.9	101.4
100.0	73.3	81.0	88.9	93.6	96.2	95.4	92.5	100.9
105.0	73.1	80.1	87.9	93.1	97.2	94.9	92.0	101.1
110.0	71.8	79.1	86.7	92.1	95.9	94.2	91.1	100.1
115.0	71.8	77.9	86.8	90.1	94.1	93.8	92.8	98.7

MODEL THRUST = 14.673 FULL SCALE THRUST = 20000.000

L.	PNUM.	OASPL	OCTAVE 13.5	27.1	54.2	108.3	216.7	433.4	PRESSURE LEVELS 866.8	1733.6	3469.2	6771.8	13504.8
8708.6	49.11	48.31	88.2	83.76	73.37	81.46	86.83	82.37	75.85	69.88	53.67	31.68	-9.11
4354.3	95.21	94.31	93.2	85.18	75.91	84.30	89.07	80.35	79.95	76.73	60.76	43.18	11.79
3269.7	97.41	96.61	95.1	88.22	78.29	87.88	90.58	91.77	82.17	73.71	65.07	58.27	24.29
2614.8	99.11	97.71	96.3	89.23	78.27	88.69	91.48	92.46	83.82	76.21	69.49	55.48	33.85
2618.2	100.21	98.41	97.0	89.88	78.48	88.77	92.10	93.05	85.91	77.96	70.68	59.11	39.18
2333.5	99.71	97.61	96.0	88.70	78.43	88.49	91.91	92.71	86.55	78.76	73.33	62.27	44.18
2121.3	99.91	98.01	96.9	91.61	81.38	82.48	84.71	94.63	87.48	81.75	75.34	65.33	48.58
1959.1	99.81	98.01	97.0	93.51	78.21	81.28	87.38	90.62	87.29	82.31	76.29	69.69	51.02
1831.8	99.41	98.61	97.6	92.78	81.21	80.18	87.41	89.63	87.82	84.91	77.09	67.91	53.88
1732.1	99.81	98.61	97.6	93.28	81.58	80.45	89.15	88.38	87.69	84.76	78.78	67.88	53.77
1654.1	99.41	98.61	97.6	93.48	81.47	80.42	87.23	89.18	87.82	84.88	78.88	67.88	54.22
1590.2	99.61	98.61	97.6	93.65	82.06	80.19	88.88	89.58	87.86	84.96	79.91	67.88	54.27
1532.9	99.21	98.21	97.1	93.68	81.93	79.84	83.63	89.88	87.68	85.67	81.89	71.82	67.68
1529.1	99.41	98.31	97.6	93.33	82.21	80.89	82.42	88.58	88.91	87.89	85.27	67.21	58.35
1525.7	99.41	98.41	98.1	93.63	81.86	80.74	85.22	86.86	89.28	87.46	84.49	68.49	58.14
1588.0	99.41	98.21	97.1	93.67	81.78	80.37	82.26	85.78	86.79	89.88	84.81	66.82	57.81
1585.7	99.61	98.61	97.6	93.97	81.98	81.21	84.23	86.23	87.88	89.88	84.22	68.21	57.85
1529.1	99.41	98.61	97.6	93.91	82.09	81.11	84.18	86.13	87.88	89.88	83.71	65.85	57.78
1552.9	99.41	98.61	97.6	93.78	82.21	79.83	81.44	84.11	82.38	84.83	77.48	66.88	51.74
1598.3	99.31	98.81	97.6	93.88	82.06	79.78	83.66	81.18	77.67	71.83	63.62	52.28	29.23
1659.1	99.41	98.61	97.8	94.36	82.47	79.97	81.42	81.78	83.91	78.61	74.54	62.38	48.88

RUN NUMBER	= 863.000
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INS.)	= NONE
PRIMARY TEMPERATURE (R)	= 536.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 1397.000
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= .418
THRUST (LBS)	= 18.000
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	= 99.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .079
INSTRUMENTATION NOISE FLOOR (DB)	= 67.5M7

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.73384E-00	138.3
500	3.15984E-02	115.0
1000	9.93051E-02	120.0
2000	7.72136E-01	128.9
4000	1.65400E+00	132.9
8000	2.35858E+00	133.7
16000	1.11252E+00	130.5
31500	6.84609E-01	128.1

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	169.7
20000	168.7
40000	171.7
80000	174.7

EXPERIMENTAL DATA

TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS							
	500	1000	2000	4000	8000	16000	31500	OVER ALL
10.0	90.8	100.2	108.7	109.1	109.5	106.1	97.6	116.5
20.0	89.4	99.0	108.1	110.3	110.8	106.3	98.5	116.8
25.0	88.5	98.9	107.9	111.0	111.1	108.2	99.1	118.0
30.0	88.7	97.7	106.6	111.0	110.6	109.1	99.8	118.2
35.0	85.1	95.6	106.8	109.9	109.8	108.3	98.3	116.1
40.0	83.1	93.4	107.6	107.0	109.5	106.1	97.8	116.2
45.0	82.1	91.1	106.2	105.9	107.2	104.2	95.7	111.3
50.0	80.6	88.8	97.1	102.6	103.8	103.2	93.6	109.2
55.0	78.2	87.8	95.2	100.3	101.4	101.0	91.8	107.5
60.0	78.5	86.7	94.0	98.2	100.7	100.7	91.1	106.5
65.0	78.5	86.3	93.7	96.6	100.0	99.9	90.8	105.8
70.0	78.5	85.8	93.2	97.0	99.7	99.1	90.0	105.9
75.0	78.6	85.3	92.8	96.9	98.9	98.1	89.4	105.9
80.0	78.4	85.0	92.6	96.9	98.9	98.0	89.2	105.9
85.0	77.9	85.0	91.9	95.8	98.6	97.4	88.6	105.6
90.0	77.1	84.9	91.3	95.3	98.3	97.2	88.3	105.1
95.0	76.8	84.9	90.8	94.7	97.8	96.3	88.2	104.8
100.0	76.4	83.9	90.0	94.3	97.2	96.1	88.2	104.8
105.0	75.5	83.1	89.5	93.7	97.2	96.1	88.0	104.9
110.0	75.8	81.8	89.2	93.4	97.2	96.1	88.0	104.9
115.0	76.0	80.5	87.1	92.3	95.8	94.8	87.2	103.4

NOZZLE THRUST = 18.000 FULL SCALE THRUST = 20000.000

L0	PWR.	DEG.	OCTAVE BAND SOUND PRESSURE LEVELS							
			125.0	250.0	500.0	1000.0	2000.0	4000.0	8000.0	16000.0
8799.6	91.01	95.01	89.3	84.33	75.07	82.35	84.53	84.29	79.82	69.13
4386.7	85.01	86.01	82.9	87.10	77.42	86.19	88.22	89.52	82.31	72.19
2849.3	87.91	85.01	85.1	88.93	82.03	87.61	91.29	91.41	88.47	79.03
2688.9	88.01	84.01	85.0	89.10	83.02	87.15	92.28	91.15	89.35	84.58
2813.8	88.71	83.01	85.0	89.72	84.28	87.43	92.37	91.09	89.47	84.13
2833.8	88.31	82.01	84.9	89.77	84.02	87.02	91.78	90.82	89.19	84.05
2881.9	88.01	81.01	84.9	89.72	83.63	86.93	91.38	90.62	88.99	83.81
2859.1	88.11	80.01	84.8	89.63	83.42	86.91	91.38	90.62	88.98	83.77
1931.2	86.31	79.01	82.8	88.04	81.28	84.69	89.82	89.03	87.03	81.68
1732.1	87.61	78.01	83.1	88.46	81.66	84.93	89.93	89.45	87.41	82.06
1625.1	87.61	77.01	83.1	88.46	81.66	84.93	89.93	89.45	87.41	82.06
1586.3	87.71	76.01	83.2	88.57	81.78	85.03	90.04	89.56	87.52	82.17
1552.9	87.71	75.01	83.2	88.57	81.78	85.03	90.04	89.56	87.52	82.17
1523.1	86.31	74.01	82.0	88.03	81.23	84.49	89.49	89.01	86.98	81.63
1509.7	86.01	73.01	82.1	87.97	81.17	84.43	89.43	88.95	86.92	81.57
1588.2	86.31	72.01	82.4	88.27	81.47	84.73	89.73	89.25	87.22	81.87
1585.7	86.41	71.01	82.5	88.37	81.57	84.83	89.83	89.35	87.32	81.97
1523.1	85.11	70.01	81.2	87.07	80.27	83.53	88.53	88.05	86.02	80.67
1532.0	84.71	69.01	80.8	86.67	79.87	83.13	88.13	87.65	85.62	80.27
1576.3	84.11	68.01	80.2	86.07	79.27	82.53	87.53	87.05	85.02	79.67
1669.1	82.31	67.01	78.4	84.27	77.47	80.73	85.73	85.25	83.22	77.87

RUN NUMBER	=	605.000
AXIAL POSITION OF PRIMARY WRT. SECONDARY (INS.)	=	NONE
PRIMARY TEMPERATURE (R)	=	539.000
SECONDARY TEMPERATURE (R)	=	NONE
PRIMARY PRESSURE RATIO	=	3.500
AREA RATIO	=	NONE
VELOCITY RATIO	=	NONE
PRIMARY VELOCITY (FT/SEC)	=	1570.810
MASS FLOW RATIO	=	NONE
PRIMARY MASS FLOW (LB/SEC)	=	.607
THRUST (LBS)	=	29.595
ENVIRONMENTAL TEMPERATURE (R)	=	523.000
ENVIRONMENTAL PRESSURE (IN.HG)	=	29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	=	55.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	=	.178
INSTRUMENTATION NOISE FLOOR (DB)	=	74.588

RUN NUMBER 605 INSUFFICIENT DATA FOR COMPLETE PRINTOUT.

OVERALL SOUND POWER FOR MODEL

144.7 dB re 10^{-13} watts

MAXIMUM 1500-FT SIDELINE PERCEIVED NOISE LEVEL

103 PNdB

RUN NUMBER	= 606.000
AXIAL POSITION OF PRIMARY NRT, SECONDARY (INS.)	= NONE
PRIMARY TEMPERATURE (R)	= 532.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 1589.000
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= .947
THRUST (LBS)	= 49.638
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	= 54.000
CALIBRATION FACTOR (MV TO DYN/SQ CM)	= .224
INSTRUMENTATION NOISE FLOOR (DB)	= 76.500

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	4.65362E+01	146.7
500	1.76169E-01	122.5
1000	1.49256E+00	131.7
2000	8.27637E+00	139.2
4000	1.53982E+01	141.9
8000	1.27703E+01	141.1
16000	5.70775E+00	137.6
31500	2.71485E+00	134.3

OVERALL SOUND POWER LEVEL,SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	169.7
20000	172.7
40000	175.7
80000	178.8

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	500	OCTAVE 1000	BAND 2000	SOUND 4000	PRESSURE 8000	LEVELS 16000	31500	OVER ALL
15.0	103.4	112.8	117.3	116.8	116.5	110.7	105.4	123.2
20.0	102.4	111.5	117.8	119.7	117.8	112.0	106.8	124.0
25.0	100.7	111.1	118.6	120.2	118.5	113.5	108.7	124.6
30.0	98.7	109.4	117.8	120.0	118.6	113.9	109.1	124.6
35.0	96.6	106.8	115.9	118.9	117.0	113.6	109.9	123.1
40.0	94.1	103.9	113.2	117.2	115.9	112.6	109.4	121.5
45.0	91.6	101.0	109.4	113.6	114.1	111.9	108.7	119.1
50.0	89.3	98.3	106.1	110.7	112.5	110.5	107.5	117.1
55.0	88.2	96.6	103.4	108.1	110.4	109.0	106.4	115.1
60.0	89.0	95.8	102.7	106.5	109.3	107.4	105.2	113.5
65.0	88.2	95.8	101.9	105.4	107.6	106.0	104.0	112.5
70.0	88.2	95.3	101.1	104.3	107.0	104.9	103.1	111.6
75.0	88.2	94.8	100.2	103.7	106.5	104.0	102.3	110.9
80.0	87.9	94.4	99.5	103.2	106.0	103.1	101.6	110.3
85.0	87.4	93.8	99.0	102.8	105.5	102.5	100.8	109.8
90.0	86.1	93.1	99.0	102.5	105.1	101.8	100.3	109.4
95.0	86.1	92.6	98.5	102.2	104.7	101.3	99.7	108.9
100.0	85.6	92.1	97.9	101.9	104.3	100.8	99.3	108.5
105.0	85.1	92.1	97.8	101.5	104.0	100.3	98.8	108.1
110.0	83.9	90.8	97.2	101.0	103.6	99.7	98.4	107.7
115.0	84.5	89.5	96.7	100.5	103.0	99.3	97.8	107.1

MODEL THRUST = 49.638 FULL SCALE THRUST = 20000.000

L.	PHDB.	OASPL	24.9	OCTAVE 49.8	BAND 99.6	SOUND 199.3	PRESSURE 398.5	LEVELS 797.1	1569.3	3138.6	6227.3	12454.6	24909.3
5795.6	95.7(95.5)	93.5	74.75	83.32	88.48	89.47	85.77	76.34	62.83	41.87	4.33	-60.31	-161.68
4385.7	99.8(99.3)	96.9	76.13	85.20	91.45	92.98	89.98	81.45	69.79	53.20	24.06	-25.58	-103.02
3949.3	102.9(102.3)	99.5	76.34	86.71	94.06	95.40	92.79	85.58	75.75	61.76	37.59	-3.10	-80.60
3686.0	104.3(104.0)	100.9	75.80	86.40	94.76	97.12	94.61	88.01	78.94	66.64	45.76	10.86	-43.06
2819.2	105.2(104.1)	100.6	74.82	85.04	94.02	96.80	94.30	89.32	81.88	70.78	52.19	21.38	-20.01
2333.6	105.2(103.9)	99.9	73.32	83.14	92.35	96.15	94.28	89.56	83.06	72.83	55.92	28.10	-14.58
2121.3	104.4(102.4)	99.2	71.74	81.03	89.63	93.60	93.42	89.89	83.65	74.08	58.43	32.87	-9.13
1950.1	103.5(91.8)	96.9	70.08	79.34	89.79	91.20	92.61	89.34	83.58	74.51	59.84	36.02	-.22
1831.2	102.4(100.4)	95.6	69.59	77.96	88.70	89.28	91.05	88.57	83.37	74.69	60.78	38.30	4.24
1737.1	101.4(99.3)	94.3	70.80	77.65	88.45	88.14	89.52	87.45	82.92	74.55	61.23	39.80	7.41
1655.1	100.9(98.8)	93.4	73.47	78.06	88.15	87.44	88.25	86.62	82.25	74.12	61.25	40.69	9.59
1586.3	100.4(98.0)	93.3	70.79	77.24	87.58	86.84	87.95	85.89	81.83	73.89	61.37	41.40	11.30
1552.0	100.2(98.1)	92.9	71.03	77.53	87.97	86.26	88.75	85.27	81.34	73.52	61.27	41.79	12.49
1523.1	99.4(97.7)	92.5	70.81	77.32	87.63	85.94	87.40	84.95	80.92	73.20	61.13	41.93	13.07
1505.7	99.4(97.2)	92.0	70.50	76.93	87.23	85.63	87.99	84.87	80.21	72.94	60.97	41.96	13.00
1500.1	99.0(96.8)	91.7	69.20	76.14	86.16	85.42	87.63	83.46	79.89	72.15	60.81	41.25	12.79
1495.7	99.1(96.8)	91.2	69.16	75.87	86.04	85.05	87.24	82.95	79.09	71.43	59.95	40.44	11.93
1523.1	97.9(95.8)	90.7	68.57	75.09	85.42	84.64	86.70	82.24	78.60	70.88	58.81	39.61	10.75
1552.3	97.1(95.3)	90.2	67.47	74.41	84.87	84.07	86.22	81.52	77.82	70.00	57.75	38.23	8.47
1596.1	96.4(94.5)	89.4	66.47	73.24	84.14	83.34	85.56	80.64	77.09	69.16	56.62	36.95	6.55
1658.1	95.2(93.6)	88.5	66.76	71.99	83.13	82.52	84.88	79.99	76.02	67.99	55.02	34.92	3.33

RUN NUMBER	= 604.00 (836.00)
AXIAL POSITION OF PRIMARY NOZ. SECONDARY (INCH)	= NONE
PRIMARY TEMPERATURE (R)	= 533.000
SECONDARY TEMPERATURE (R)	= NONE
PRIMARY PRESSURE RATIO	= 3.500
AREA RATIO	= NONE
VELOCITY RATIO	= NONE
PRIMARY VELOCITY (FT/SEC)	= 1450.000
MASS FLOW RATIO	= NONE
PRIMARY MASS FLOW (LB/SEC)	= .473
THRUST (LBS)	= 21.315
ENVIRONMENTAL TEMPERATURE (R)	= 522.000
ENVIRONMENTAL PRESSURE (IN.HG)	= 29.270
ENVIRONMENTAL HUMIDITY (PER CENT)	= 59.000
CALIBRATION FACTOR (MV TO DY/SQ CM)	= .142
INSTRUMENTATION NOISE FLOOR (DB)	= 72.631

ACOUSTIC POWER AND SOUND POWER LEVEL FOR MODEL JET

FREQUENCY	POWER(WATTS)	POWER LEVEL(DB)
OVERALL	2.63899E+01	144.2
500	4.49746E-02	116.5
1000	2.55772E-01	124.1
2000	2.39187E+00	133.8
4000	9.56323E+00	139.3
8000	9.54336E+00	139.8
16000	3.69573E+00	135.7
31500	1.89504E+00	132.8

OVERALL SOUND POWER LEVEL SCALED FOR THRUST

THRUST	POWER LEVEL(DB)
10000	170.9
20000	173.9
40000	176.9
80000	180.0

EXPERIMENTAL DATA
TABLE SHOWING OCTAVE BAND AND OVERALL SOUND PRESSURE LEVEL VARIATION WITH ANGLE

ANGLE (DEG)	OCTAVE BAND SOUND PRESSURE LEVELS 500	1000	2000	4000	8000	16000	31500	OVER ALL
15.0	93.4	102.7	111.2	115.1	115.5	109.6	104.7	119.8
20.0	92.8	102.8	111.8	116.1	117.5	109.4	104.7	121.0
25.0	92.2	101.7	111.9	116.6	116.6	109.8	104.8	120.8
30.0	91.0	100.9	111.7	117.2	116.1	109.9	104.7	120.9
35.0	89.1	99.1	110.4	116.6	114.5	109.1	104.3	119.9
40.0	88.2	96.8	108.4	115.2	115.2	109.0	104.4	119.3
45.0	86.9	95.1	105.6	112.7	112.5	108.8	105.0	117.1
50.0	85.7	92.8	103.2	109.6	110.5	108.4	105.6	115.2
55.0	85.4	91.2	100.4	106.8	109.6	107.2	105.2	113.8
60.0	85.0	90.6	99.1	105.1	108.7	106.5	105.1	112.9
65.0	85.4	90.8	98.8	103.9	108.2	105.9	104.3	112.2
70.0	84.7	91.0	98.4	103.2	107.1	105.2	103.5	111.3
75.0	85.4	90.8	98.1	102.7	106.2	104.7	103.2	110.7
80.0	89.3	90.6	97.8	102.4	105.5	104.3	102.7	110.3
85.0	84.7	90.4	97.3	102.0	105.0	103.9	102.2	109.8
90.0	84.7	89.8	96.9	101.2	104.5	103.6	101.5	109.2
95.0	84.7	89.1	96.7	100.9	104.3	103.3	101.2	109.0
100.0	85.0	88.9	96.3	100.7	104.0	103.0	100.8	108.7
105.0	84.3	88.2	94.0	100.4	103.7	102.5	100.3	108.2
110.0	83.9	87.9	94.0	99.6	103.2	102.0	99.6	107.7
115.0	84.3	87.1	92.5	98.2	102.7	101.0	98.7	106.8

MODEL THRUST = 21.315 FULL SCALE THRUST = 20000.000

L*	PNOB*	OASPL	OCTAVE BAND SOUND PRESSURE LEVELS 16.3	32.6	65.3	130.6	261.2	522.3	1028.3	2056.7	4080.7	8101.4	16322.8
5795.4	96.2(95.6)	93.9	68.46	77.65	86.16	89.79	89.38	81.51	71.68	57.29	31.06	-15.98	-93.89
4385.7	100.6(99.8)	97.8	70.20	80.18	89.13	93.27	94.11	86.52	76.06	64.44	43.87	7.54	-52.15
3549.3	102.5(101.6)	99.6	71.45	81.01	91.16	95.68	95.22	87.18	79.12	69.15	51.92	21.95	-26.92
3000.0	104.1(103.0)	101.2	71.77	81.63	92.36	97.77	96.29	88.97	81.23	72.33	57.31	31.51	-10.26
2615.2	105.4(104.3)	101.4	71.82	81.86	92.24	98.42	95.94	89.64	82.65	74.51	61.03	38.15	1.35
2333.6	105.8(104.9)	101.8	71.10	79.74	91.29	97.98	97.67	90.80	84.09	76.50	64.15	43.42	10.28
2121.3	106.9(106.7)	100.4	70.63	78.40	89.35	96.29	95.85	91.44	85.82	78.65	67.15	48.03	17.61
1958.1	108.5(107.2)	99.1	70.12	77.26	87.57	93.08	94.59	91.74	87.30	80.46	69.61	51.73	23.42
1831.2	109.2(108.2)	98.2	70.38	76.70	85.42	91.69	94.29	91.25	87.73	81.13	70.79	53.87	27.21
1732.1	109.1(108.6)	97.8	70.52	76.12	84.62	90.54	93.92	91.03	88.24	81.83	71.89	55.73	30.34
1655.1	109.9(109.7)	97.6	71.26	76.71	84.69	89.75	93.80	90.91	87.89	81.66	72.01	56.43	32.24
1594.3	109.6(109.1)	97.0	70.88	77.21	84.57	89.28	93.03	90.56	87.69	81.38	71.96	56.83	33.20
1552.9	110.2(99.7)	96.7	71.81	77.26	84.64	89.03	92.38	90.33	87.51	81.46	72.23	57.43	34.36
1523.1	110.3(99.5)	96.4	75.94	77.24	84.63	88.94	91.84	90.10	87.20	81.21	72.10	57.53	34.44
1505.7	110.5(99.1)	96.1	71.38	77.16	84.64	88.66	91.63	89.80	86.86	80.90	71.86	57.42	34.96
1500.0	110.0(99.6)	95.5	71.42	76.55	83.67	87.83	90.97	89.52	86.14	80.19	71.18	56.78	34.39
1505.7	111.7(99.3)	95.3	71.78	75.47	83.62	87.56	90.76	89.19	85.83	79.87	70.84	56.40	34.01
1523.1	111.5(97.3)	94.9	71.64	75.58	82.88	87.28	90.35	88.78	85.34	79.35	70.29	55.87	33.48
1552.9	110.5(97.2)	94.2	70.75	74.68	82.60	86.76	89.98	88.15	84.64	78.59	69.37	54.57	31.59
1594.3	109.0(96.3)	93.6	70.12	74.14	82.16	85.76	89.11	87.15	83.62	77.48	68.08	52.95	29.36
1655.1	108.1(95.2)	92.2	70.19	72.44	80.61	84.23	88.28	86.15	82.39	76.05	66.42	50.84	26.49

GP0929-997