AD-A122 844 FAR-FIELD ACOUSTIC DATA FOR THE TEXAS ASE INC HUSH-HOUSE SUPPLEMENT(U) AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OH R A LEE APR 82 1/3

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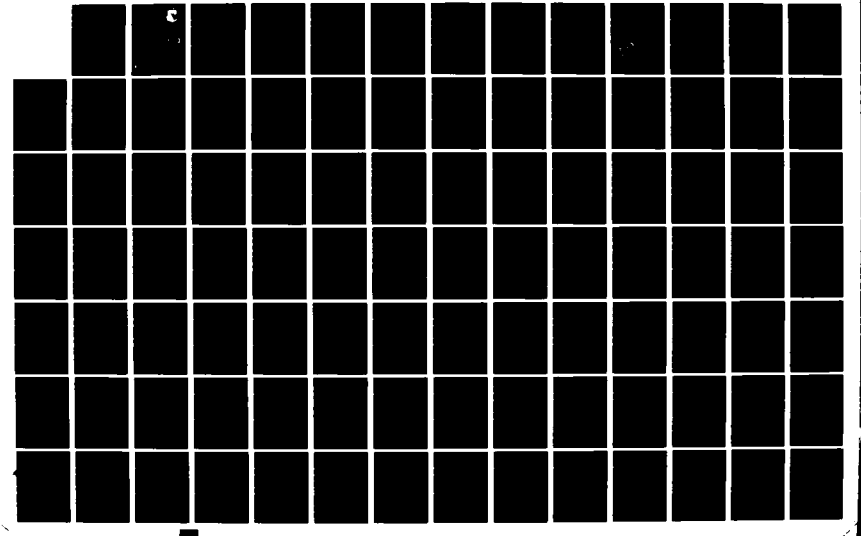

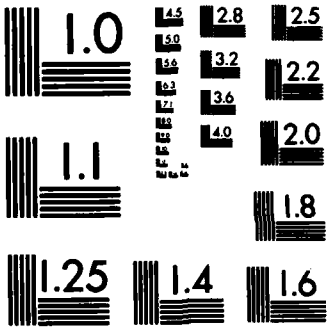

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FOR THE COMMANDER

Henning E. von Gierke

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Director
Biodynamics and Bioengineering Division
Air Force Aerospace Medical Research Laboratory

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20. ABSTRACT *(Continue on reverse side if necessary and identify by block number)*

This report supplements AFAMRL-TR-73-110, which describes the data base (NOISEFILE) used in the computer program (NOISEMAP) to predict the community noise exposure resulting from military aircraft operations. The results of field test measurements to define the single-event noise produced on the ground by military aircraft/engines operating in the Texas ASE Inc. hush-house are presented as a function of angle (0° to 180° from the front of the hush-house) and distance (200 ft to 2500 ft) in various acoustic metrics. All the data are normalized to standard acoustic reference conditions of 59°F temperature and

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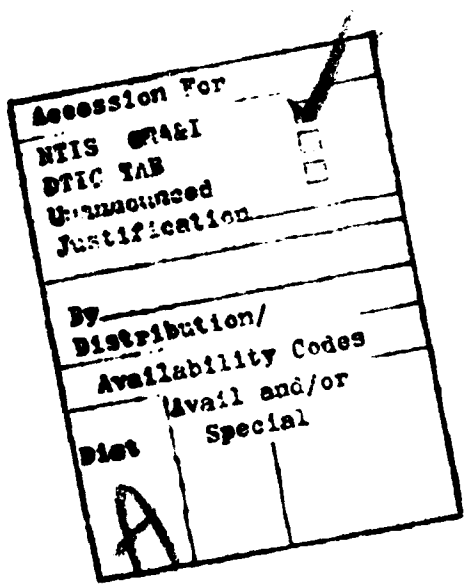
70% relative humidity. Refer to Volume 1 of the AFAMRL-TR-73-110 report for discussion of the scope, limitations, and definitions needed to understand and use the data in this report.

SUMMARY

This report presents the single event noise levels of various USAF aircraft/engines operating in the Texas ASE, Inc. hush-house. The hush-house is a structure that totally encloses the aircraft/engine and reduces the far-field noise levels during ground runup operations. This report is a supplement to the 7-volume report, AFAMRL-TR-73-110, Community Noise Exposure Resulting From Aircraft Operation: Acoustic Data on Military Aircraft. Acoustic data are provided for determining total noise exposure at a given point on the ground for any ground runup activity inside the hush-house. These data can readily be used for making preliminary environmental noise impact assessments and evaluating the effectiveness of the Texas ASE, Inc. hush-house.



PREFACE

The author gratefully acknowledges the many helpful technical discussions and critical reviews of the data acquisition and reduction procedures by Mr. John N. Cole, Mr. Jerry D. Speakman and Mr. Robert G. Powell of the Biodynamic Environment Branch; development of the OMEGA software programs by Mr. Henry Mohlman and maintenance of the data files by Mr. Fred Lampley both of the University of Dayton Research Institute, the instrumentation development efforts of Harald K. Hille of the Biodynamic Environment Branch; the noise measurement efforts of Lt Bennett, Lt Jones and Ms Murney of the USAF Occupation and Environmental Health Laboratory and the report preparation efforts of Mrs. Norma Peachey of the Biodynamic Environment Branch.

This report is one of a series describing the contractual and in-house research program undertaken by the air Force Aerospace Medical Research Laboratory, Biodynamic Environment Branch, under Project/Task 723107, "Technology to Define and Assess Environmental Quality of Noise From AF Operations," to develop the procedures and acoustic data base required for predicting community noise exposure resulting from aircraft operations.

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INTRODUCTION

Aircraft ground runup operations at military airbases produce noise in surrounding communities that may interfere with the way some land may be used, e.g., single family, residential, agricultural, recreational. The United States Air Force, in an effort to be a good neighbor and reduce this unwanted noise, has developed a "hush-house" where all ground maintenance requiring engine run time can be done. The hush-house was built by Aero Systems Engineering of Texas, Inc. as an air cooled suppressor designed to totally enclose an aircraft or engine during ground runup operations. This design permits operation of the aircraft or bare engine under controlled environmental conditions, protects the neighborhood area from noise and minimizes undesirable air pollution through use of an air cooled exhaust system. Soft energy absorbent interior walls reduce sound pressure levels (SPL) on the aircraft structure and large induced air flow around the tail section cools aircraft surfaces. One enclosure serves many different types of aircraft, and provides an efficient enclosed work area for maintenance personnel.

Included herein are 1/3 octave band spectra data at the reference distance (250-foot radius) and extrapolated data defining the acoustic environments produced by the following types of aircraft and engines operating in the hush-house during ground runup operations: F-4, F-15, F-16, F-105, F106, F-111F and T-38 aircraft and the TF41-A-1, J79-GE-15, F100-PW-100, J75-P-19, J75-P-17 and TF30-P-100 engines.

This report supplements the seven volumes of AFAMRL-TR-73-110 (see references 1-7) that describes the AFAMRL NOISEFILE, the USAF acoustic data file for all military aircraft. Inquiries for these data in NOISEFILE format in magnetic tape form should be directed to the Air Force Aerospace Medical Research Laboratory, Biodynamic Environment Branch, Wright-Patterson AFB, OH 45433.

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1. Speakman, J.D., Powell, R.G., Cole, J.N., Community Noise Exposure Resulting From Aircraft Operations: Volume 1. Acoustic Data On Military Aircraft, FAMRL-TR-73-110 (AD AO53699), Air Force Aerospace Medical Research Laboratory, Wright-Patterson AFB, OH 45433

2. Ibid, Volume 2: Air Force Bomber/Cargo Aircraft Noise Data (AD AO53700)

3. Ibid, Volume 3: Air Force Attack/Fighter Aircraft Noise Data (AD AO53701)

4. Ibid, Volume 4: Air Force Trainer/Fighter Aircraft Noise Data (AD AO53702)

5. Ibid, Volume 5: Air Force Propeller Aircraft Noise Data (AD AO55079)

6. Ibid, Volume 6: Navy Aircraft Noise Data (AD AO56217)

7. Ibid, Volume 7: Aircraft Ground Runup Noise Suppressor Data (AD AO83701)

MEASUREMENTS

AFAMRL acquired the far-field data during a 1 to 2-hour test period for each aircraft/engine operating in the hush-house, thus maintaining similar meteorological conditions. Figure 1 shows the hush-house and its orientation relative to 20 microphone measurement sites on a 100 meter (328 feet) semicircle. The center of the front half of the semicircle was located on the ground directly beneath the intersection of the aircraft/engine centerline and a plane passing through the exhaust nozzle. The center of the back half of the semicircle was located on the center of the exhaust stack. This two center approach was used because the hush-house was designed with two main exit ports for the noise generated, the air inlets and the exhaust stack. These two exit ports are located (over 100 ft.) apart, causing the hush-house to act as a two point noise source. In order for this source to be measured as a point source we would have had to have taken the noise measurements at a much larger distance than the 100 meter radius. Measuring at a farther distance would have caused problems because the noise levels would have been reduced and therefore too close to the ambient noise environment to make a clear determination of the source characteristics. The 1/3 octave band spectra for the 90F and 90B positions were arithmetically averaged together to present only single values for the 90° point. This approximation was made because our OMEGA programs only allow 19 angles to be presented. This method for averaging does not significantly affect the values at any of the distances presented.

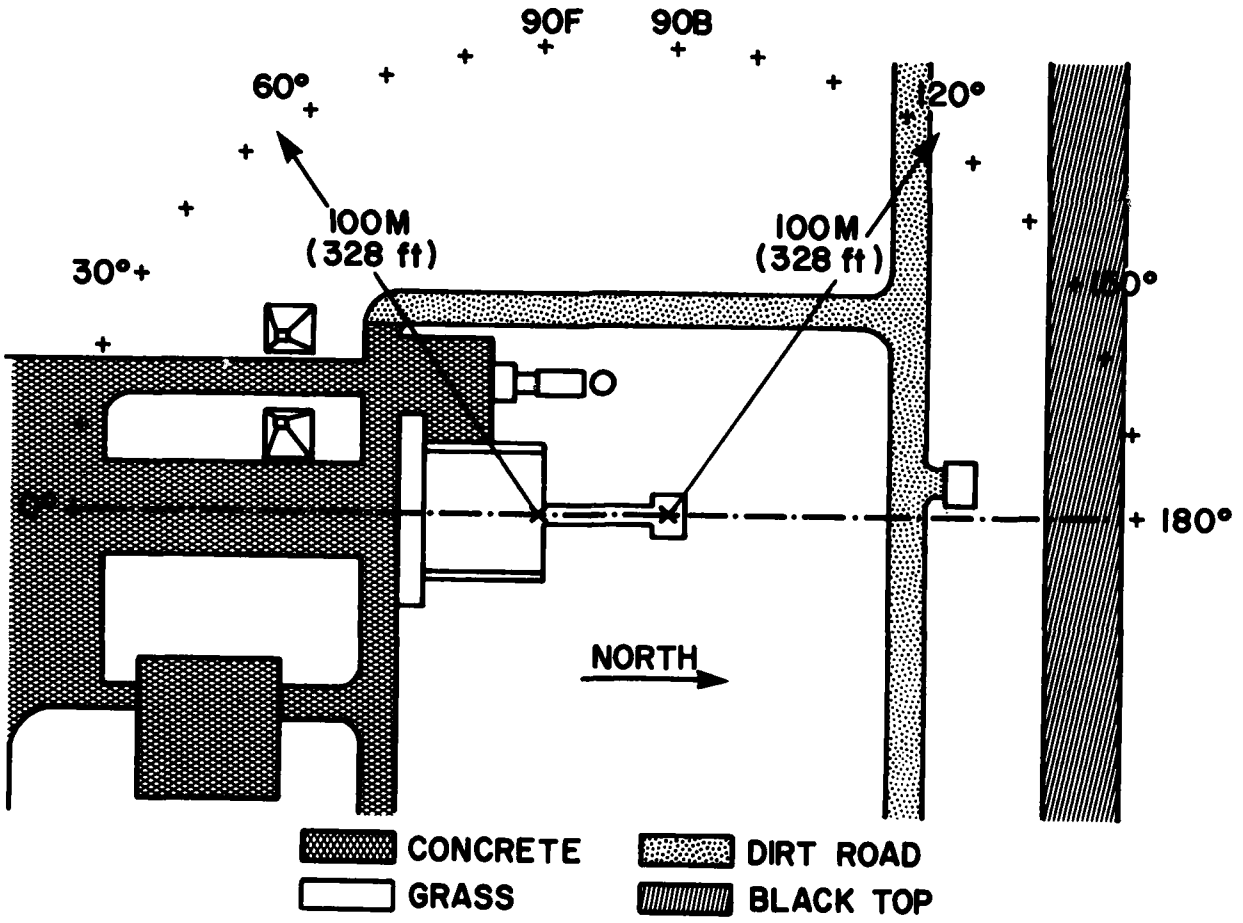

Figure 1. Hush-House Measurement Locations

Measured noise levels for all 19 angles were not available for some aircraft/engine power settings due to the limited measurement schedule and interference from transient sources. The levels for these missing angles were estimated by duplicating the levels closest to the missing angle for which there were measured data (i.e., F-4 idle power data for angles 140° to 180° were duplicated from the measured 130° data).

A portable microphone/tape-recorder system was used to record the noise sequentially at each far-field location. The microphone was attached to a hand-held pole, pointed at the source (0° angle of incidence) and vertically scanned from 0.5 to 3 meters for a period of 5-10 seconds during data acquisition at each microphone location. These samples were than time-integrated to derive a root-mean-square sound pressure level. Vertical scanning and time-integrating together reduce anomalies frequently present in data acquired by a fixed height microphone.

Typically, measurements are performed at three or four engine power conditions ranging from idle to maximum. Note that all of the ground runup values reported in this report are for single engine operation, even though some of the aircraft have more than one engine.

DATA ANALYSIS

Once having the data recorded on magnetic tape, the first steps in our data reduction/analysis process are correction for the frequency response functions of the microphone and record/reproduce instrumentation and conversion to root-mean-square, one-third octave band sound pressure levels punched on cards in digital form. This makes it relatively easy to then use specially designed software programs to perform the multitude of computations for normalizing the data from field test conditions to reference conditions and expressing the data in terms of the desired various single event noise measures. We use a General Radio Real-Time Spectrum Analyzer that is directly interfaced with a Control Data Corporation Model 1700 batch terminal and includes a Model 415 high speed card punch as a peripheral device.

The software developed to reduce the raw data to the various acoustic metrics presented in this report are the AFAMRL OMEGA series of acoustic data reduction programs. (The OMEGA programs with complete documentation are available from the Air Force Aerospace Medical Research Laboratory, Biodynamic Environment Branch, Wright-Patterson AFB, OH 45433.)

USAF HUSH HOUSE(F-4 A/C) HUSH HOUSE(F-4 A/C) HUSH HOUSE(F-4 A/C) HUSH HOUSE(F-4 A/C) USAF

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(F-4 A/C)

DURING GROUND RUN-UP OPERATIONS

TEST 8F-702-001
AIRCRAFT CODE: 702
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting	Page
Idle Power, 65% RPM	8
Engine Runup, 85% RPM	14
Military Power, 99% RPM	20
Afterburner Power, 99% RPM	26

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF HUSH HOUSE(F-4 A/C) HUSH HOUSE(F-4 A/C) HUSH HOUSE(F-4 A/C) HUSH HOUSE(F-4 A/C) USAF

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (65% RPM)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 01
AIRCRAFT CODE 702
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE C3

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	61	61	59	61	66	67	66	66	67	67	65	64	61	61	61	61	61	61	61
63	58	58	58	59	64	62	63	63	63	65	68	63	63	63	63	63	63	63	63
80	56	56	55	61	67	60	62	64	58	61	64	59	62	62	62	62	62	62	62
100	58	58	55	55	56	56	56	57	55	60	60	61	61	61	61	61	61	61	61
125	56	56	53	54	53	55	55	55	54	57	61	60	62	62	62	62	62	62	62
160	51	51	48	55	52	48	52	57	47	50	56	55	59	59	59	59	59	59	59
200	51	51	46	46	48	44	45	46	45	45	49	51	55	55	55	55	55	55	55
250	48	48	45	44	46	42	45	49	44	44	47	48	51	51	51	51	51	51	51
315	47	47	41	43	46	40	45	50	42	42	44	44	49	49	49	49	49	49	49
400	42	42	38	40	44	39	43	48	40	39	41	42	47	47	47	47	47	47	47
500	43	43	39	39	43	40	41	42	40	38	41	41	46	46	46	46	46	46	46
630	42	42	37	36	39	38	39	39	40	38	42	42	47	47	47	47	47	47	47
800	40	40	34	35	37	37	38	38	40	39	43	43	47	47	47	47	47	47	47
1000	41	41	35	34	36	36	37	37	39	39	46	43	47	47	47	47	47	47	47
1250	41	41	36	34	36	37	37	37	40	39	45	41	46	46	46	46	46	46	46
1600	42	42	39	37	39	39	38	37	40	40	44	42	45	45	45	45	45	45	45
2000	40	40	40	36	38	40	38	37	38	39	46	41	44	44	44	44	44	44	44
2500	38	38	37	34	36	41	37	34	35	36	39	39	41	41	41	41	41	41	41
3150	35	35	28	28	33	34	33	33	34	33	36	36	39	39	39	39	39	39	39
4000	33	33	28	27	32	34	33	31	33	30	34	32	35	35	35	35	35	35	35
5000	31	31	25	27	33	34	33	31	32	29	32	31	35	35	35	35	35	35	35
6300	30	30	26	27	33	34	32	30	33	29	32	30	32	32	32	32	32	32	32
8000	28	28	26	28	31	33	32	31	33	30	35	32	31	31	31	31	31	31	31
10000	23	23	25	27	30	31	30	29	35	29	34	31	29	29	29	29	29	29	29
OVERALL	66	66	64	66	71	69	69	70	69	71	72	69	70	70	70	70	70	70	70

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (65% RPM)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 01
AIRCRAFT CODE 702
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE D3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.5	67.5	64.7	65.4	69.4	68.0	67.2	68.2	66.7	67.3	71.5	69.6	72.2	72.2	72.2	72.2	72.2	72.2	72.2
250	65.2	65.2	62.3	63.0	66.9	65.6	64.8	65.9	64.3	64.9	69.2	67.2	69.9	69.9	69.9	69.9	69.9	69.9	69.9
315	62.8	62.8	59.7	60.5	64.5	63.1	62.4	63.4	61.9	62.3	66.8	64.8	67.5	67.5	67.5	67.5	67.5	67.5	67.5
400	60.3	60.3	57.1	57.8	61.9	60.5	59.8	60.9	59.2	59.7	64.3	62.3	65.1	65.1	65.1	65.1	65.1	65.1	65.1
500	57.6	57.6	54.2	54.8	59.0	57.6	56.9	57.9	56.3	56.8	61.7	59.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
630	54.6	54.6	51.2	51.4	56.0	54.6	53.6	54.9	53.1	53.6	58.9	56.4	59.6	59.5	59.6	59.6	59.6	59.6	59.6
800	51.3	51.3	47.6	47.8	53.1	51.4	50.4	51.8	49.7	50.1	55.8	53.0	56.7	56.7	56.7	56.7	56.7	56.7	56.7
1000	47.7	47.7	44.0	43.7	49.6	47.8	46.8	48.5	46.1	46.5	52.6	49.4	53.2	53.2	53.2	53.2	53.2	53.2	53.2
1250	43.7	43.7	39.5	38.8	44.8	43.5	42.6	44.8	41.9	42.5	48.8	45.6	49.5	49.5	49.5	49.5	49.5	49.5	49.5
1600	39.1	39.1	34.3	33.0	39.4	38.1	37.7	40.6	36.8	37.1	44.3	41.1	45.5	45.5	45.5	45.5	45.5	45.5	45.5
2000	33.6	33.6	26.0	24.4	31.5	30.3	31.2	35.4	28.8	30.1	39.2	35.4	40.8	40.8	40.8	40.8	40.8	40.8	40.8
2500	25.8	25.8	17.6	13.0	24.3	22.8	22.0	26.7	21.9	19.7	32.0	26.7	35.5	35.5	35.5	35.5	35.5	35.5	35.5
3150	12.9	12.9	9.3	1.6	11.5	11.7	9.4	17.6	15.0	9.3	24.3	17.9	28.0	26.0	28.0	28.0	28.0	28.0	28.0
4000	.1	.1	.9			.7		6.7	8.1		11.1	9.1	17.7	17.7	17.7	17.7	17.7	17.7	17.7
5000									1.2			.4	7.5	7.5	7.5	7.5	7.5	7.5	7.5
6300																			
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (65% RPM)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
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TEST BF-702-001
RUN 01
AIRCRAFT CODE 702
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.5	67.5	64.7	66.4	69.4	69.2	67.2	69.2	66.7	67.3	73.0	69.6	72.2	72.2	72.2	72.2	72.2	72.2	72.2
250	65.2	65.2	62.3	63.9	66.9	66.8	64.8	66.9	64.3	64.9	70.7	67.2	69.9	69.9	69.9	69.9	69.9	69.9	69.9
315	62.8	62.8	59.7	61.4	64.5	64.4	62.4	64.5	61.9	62.3	68.3	64.8	67.5	67.5	67.5	67.5	67.5	67.5	67.5
400	60.3	60.3	57.1	58.7	61.9	61.8	59.8	61.9	59.2	59.7	65.9	62.3	65.1	65.1	65.1	65.1	65.1	65.1	65.1
500	57.6	57.6	54.2	55.8	59.0	58.9	56.9	59.0	56.3	56.8	63.3	59.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
630	54.6	54.6	51.2	52.4	56.0	55.9	53.6	55.9	53.1	53.6	60.5	56.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6
800	51.3	51.3	47.6	48.7	53.1	52.6	50.4	52.8	49.7	50.1	57.4	53.0	56.7	56.7	56.7	56.7	56.7	56.7	56.7
1000	47.7	47.7	44.8	44.6	49.6	49.0	46.8	49.5	46.1	46.5	54.1	49.4	53.2	53.2	53.2	53.2	53.2	53.2	53.2
1250	43.7	43.7	39.5	39.8	44.8	44.7	42.6	45.8	41.9	42.5	50.3	45.6	49.5	49.5	49.5	49.5	49.5	49.5	49.5
1600	39.1	39.1	34.3	33.9	39.4	39.4	37.7	41.7	36.8	37.1	45.8	41.1	45.5	45.5	45.5	45.5	45.5	45.5	45.5
2000	33.6	33.6	26.0	25.3	31.5	31.6	31.2	36.4	28.8	30.1	40.7	35.4	40.8	40.8	40.8	40.8	40.8	40.8	40.8
2500	25.8	25.8	17.6	13.9	24.3	24.8	22.0	27.7	21.9	19.7	33.6	26.7	35.5	35.5	35.5	35.5	35.5	35.5	35.5
3150	12.9	12.9	9.3	2.5	11.5	13.0	9.4	18.6	15.0	9.3	25.9	17.9	28.0	28.0	28.0	28.0	28.0	28.0	28.0
4000	.1	.1	.9			1.7		7.5	8.1		12.3	9.1	17.7	17.7	17.7	17.7	17.7	17.7	17.7
5000									1.2			.4	7.5	7.5	7.5	7.5	7.5	7.5	7.5
6300																			
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (65% RPM)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 01
AIRCRAFT CODE 702
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	54.3	54.3	50.8	51.2	53.6	52.8	52.9	54.2	52.8	53.1	57.3	55.6	59.0	59.0	59.0	59.0	59.0	59.0	59.0
250	52.2	52.2	48.7	49.1	51.5	50.7	50.8	52.1	50.7	51.0	55.2	53.5	56.9	56.9	56.9	56.9	56.9	56.9	56.9
315	50.1	50.1	46.6	47.0	49.5	48.5	48.7	50.0	48.5	48.9	53.0	51.4	54.8	54.8	54.8	54.8	54.8	54.8	54.8
400	48.0	48.0	44.4	44.9	47.3	46.3	46.5	47.9	46.3	46.7	50.9	49.3	52.6	52.6	52.6	52.6	52.6	52.6	52.6
500	45.7	45.7	42.2	42.7	45.1	44.1	44.3	45.7	44.1	44.6	48.7	47.1	50.4	50.4	50.4	50.4	50.4	50.4	50.4
630	43.4	43.4	39.9	40.3	42.9	41.7	42.0	43.5	41.8	42.3	46.4	44.7	48.1	48.1	48.1	48.1	48.1	48.1	48.1
800	41.0	41.0	37.4	37.9	40.6	39.3	39.7	41.1	39.5	39.9	44.0	42.3	45.7	45.7	45.7	45.7	45.7	45.7	45.7
1000	38.6	38.6	34.9	35.4	38.3	36.8	37.2	38.7	37.0	37.5	41.5	39.8	43.3	43.3	43.3	43.3	43.3	43.3	43.3
1250	35.9	35.9	32.2	32.7	35.6	34.1	34.6	36.1	34.9	34.8	38.9	37.1	40.6	40.5	40.6	40.6	40.6	40.6	40.6
1600	33.1	33.1	29.3	29.7	32.7	31.3	31.7	33.2	31.7	31.9	36.0	34.2	37.9	37.9	37.9	37.9	37.9	37.9	37.9
2000	30.2	30.2	26.3	26.6	29.6	28.2	28.7	30.2	28.8	28.8	33.0	31.2	35.0	35.0	35.0	35.0	35.0	35.0	35.0
2500	27.0	27.0	22.9	23.1	26.1	24.8	25.3	26.7	25.5	25.5	29.7	27.9	31.8	31.8	31.8	31.8	31.8	31.8	31.8
3150	23.5	23.5	19.3	19.3	22.3	21.1	21.6	22.9	22.1	21.8	26.2	24.4	28.5	28.5	28.5	28.5	28.5	28.5	28.5
4000	19.7	19.7	15.3	15.2	18.1	17.1	17.5	18.6	18.3	17.9	22.4	20.6	24.8	24.8	24.8	24.8	24.8	24.8	24.8
5000	15.5	15.5	10.9	10.8	13.7	12.8	13.2	14.1	14.1	13.7	18.4	16.6	20.8	20.8	20.8	20.8	20.8	20.8	20.8
6300	11.1	11.1	6.3	6.3	9.2	8.2	8.6	9.5	9.7	9.2	14.0	12.2	16.4	16.4	16.4	16.4	16.4	16.4	16.4
8000	7.0	7.0	2.3	2.6	5.6	4.3	4.9	6.0	5.7	5.3	9.8	8.2	12.4	12.4	12.4	12.4	12.4	12.4	12.4
10000	2.8	2.8			2.1	.4	1.1	2.4	1.6	1.4	5.4	3.9	8.1	8.1	8.1	8.1	8.1	8.1	8.1
12500											1.0		3.5	3.5	3.5	3.5	3.5	3.5	3.5
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 01
AIRCRAFT CODE 702
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE G3

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (65% RPM)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	54.3	54.3	50.8	52.1	53.6	54.1	52.9	55.2	52.8	53.1	58.8	55.6	59.0	59.0	59.0	59.0	59.0	59.0	59.0
250	52.2	52.2	48.7	50.1	51.5	52.0	50.8	53.1	50.7	51.0	56.7	53.5	56.9	56.9	56.9	56.9	56.9	56.9	56.9
315	50.1	50.1	46.6	48.0	49.5	49.8	48.7	51.0	48.5	48.9	54.6	51.4	54.8	54.8	54.8	54.8	54.8	54.8	54.8
400	48.0	48.0	44.4	45.8	47.3	47.6	46.5	48.9	46.3	46.7	52.4	49.3	52.6	52.5	52.6	52.6	52.6	52.6	52.6
500	45.7	45.7	42.2	43.6	45.1	45.3	44.3	46.7	44.1	44.6	50.2	47.1	50.4	50.4	50.4	50.4	50.4	50.4	50.4
630	43.4	43.4	39.9	41.3	42.9	43.0	42.0	44.5	41.8	42.3	47.9	44.7	48.1	48.1	48.1	48.1	48.1	48.1	48.1
800	41.0	41.0	37.4	38.9	40.6	40.6	39.7	42.1	39.5	39.9	45.5	42.3	45.7	45.7	45.7	45.7	45.7	45.7	45.7
1000	38.6	38.6	34.9	36.4	38.3	38.1	37.2	39.7	37.0	37.5	43.1	39.8	43.3	43.3	43.3	43.3	43.3	43.3	43.3
1250	35.9	35.9	32.2	33.6	35.6	35.4	34.6	37.1	34.5	34.8	40.4	37.1	40.6	40.6	40.6	40.6	40.6	40.6	40.6
1600	33.1	33.1	29.3	30.7	32.7	32.5	31.7	34.2	31.7	31.9	37.6	34.2	37.9	37.9	37.9	37.9	37.9	37.9	37.9
2000	30.2	30.2	26.3	27.5	29.6	29.4	28.7	31.2	28.8	28.8	34.5	31.2	35.0	35.0	35.0	35.0	35.0	35.0	35.0
2500	27.0	27.0	22.9	24.1	26.1	26.1	25.3	27.7	25.5	25.5	31.3	27.9	31.8	31.8	31.8	31.8	31.8	31.8	31.8
3150	23.5	23.5	19.3	20.3	22.3	22.4	21.6	23.9	22.1	21.8	27.8	24.4	28.5	28.5	28.5	28.5	28.5	28.5	28.5
4000	19.7	19.7	15.3	15.9	18.1	18.1	17.5	19.4	18.3	17.9	23.7	20.6	24.8	24.8	24.8	24.8	24.8	24.8	24.8
5000	15.5	15.5	10.9	11.4	13.7	13.5	13.2	14.7	14.1	13.7	19.3	16.6	20.8	20.8	20.8	20.8	20.8	20.8	20.8
6300	11.1	11.1	6.3	6.6	9.2	8.7	8.6	9.9	9.7	9.2	14.6	12.2	16.4	16.4	16.4	16.4	16.4	16.4	16.4
8000	7.0	7.0	2.3	2.8	5.6	4.5	4.9	6.2	5.7	5.3	10.1	8.2	12.4	12.4	12.4	12.4	12.4	12.4	12.4
10000	2.8	2.8			2.1	.4	1.1	2.4	1.6	1.4	5.4	3.9	8.1	8.1	8.1	8.1	8.1	8.1	8.1
12500											1.0		3.5	3.5	3.5	3.5	3.5	3.5	3.5
16000																			
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (65% RPM)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 01
AIRCRAFT CODE 702
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE J3

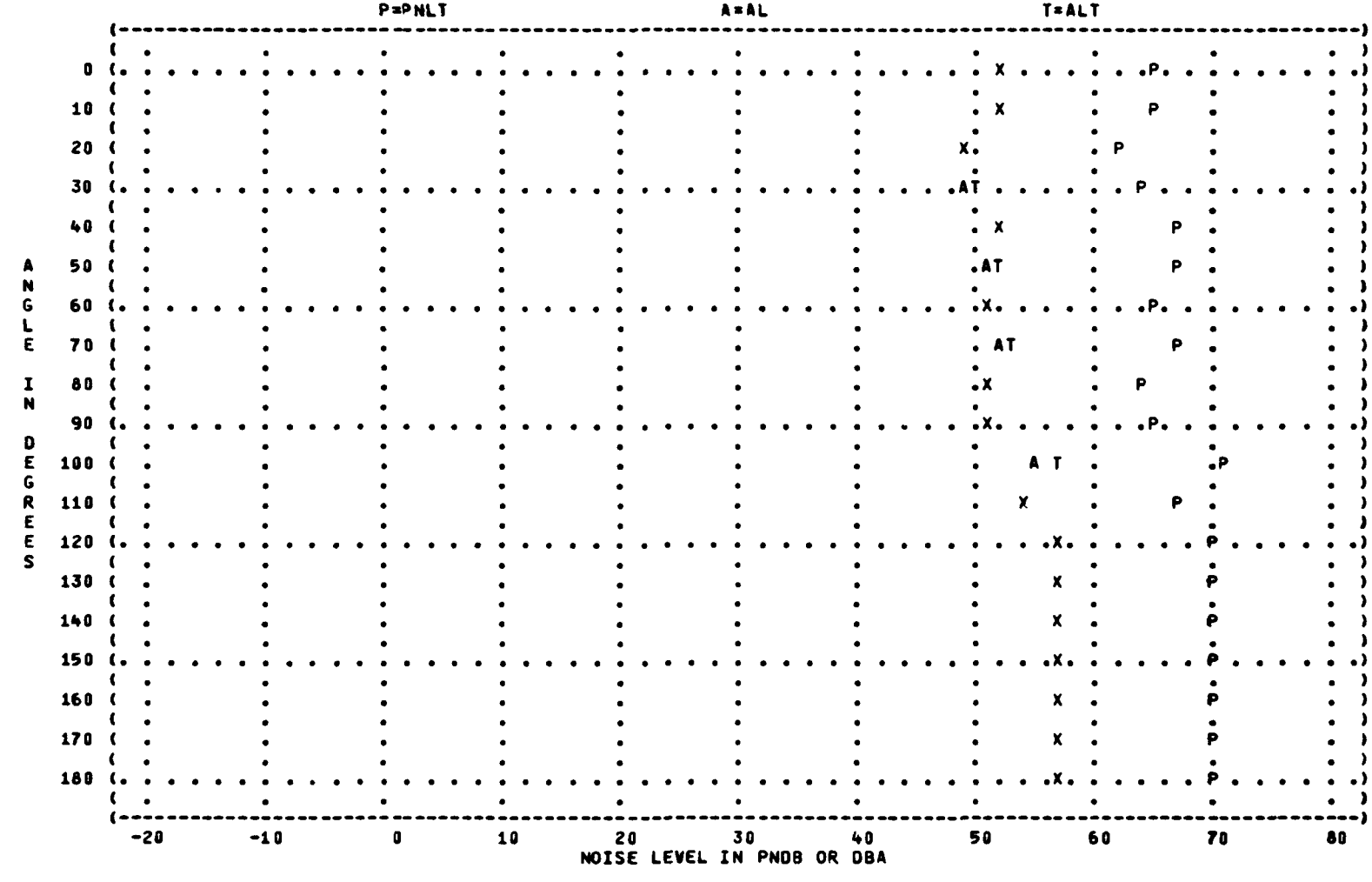


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 02
AIRCRAFT CODE 702
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE C4

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	72	69	67	66	68	70	71	73	73	72	68	71	69	71	71	71	71	71	71
63	69	65	65	65	67	68	70	71	71	72	68	69	71	70	70	70	70	70	70
80	70	68	65	63	65	67	67	68	68	67	71	71	70	69	69	69	69	69	69
100	65	64	63	63	63	62	63	62	60	63	68	70	72	69	69	69	69	69	69
125	63	63	62	61	60	60	57	59	57	63	67	67	70	67	67	67	67	67	67
160	60	58	56	54	54	54	53	52	52	56	60	63	65	60	60	60	60	60	60
200	55	49	50	51	51	51	48	46	46	50	51	54	58	55	55	55	55	55	55
250	50	48	48	48	46	45	43	43	44	46	49	51	53	52	52	52	52	52	52
315	54	49	51	53	49	45	40	46	45	45	48	49	52	50	50	50	50	50	50
400	50	45	44	44	44	43	40	44	41	43	46	46	50	48	48	48	48	48	48
500	50	48	46	44	46	49	45	47	43	44	46	47	49	49	49	49	49	49	49
630	46	45	43	42	44	46	45	45	43	45	46	48	51	51	51	51	51	51	51
800	44	41	40	39	41	43	44	45	42	45	46	48	52	53	53	53	53	53	53
1000	42	41	39	38	40	42	41	43	38	41	44	46	48	52	52	52	52	52	52
1250	45	44	42	40	42	43	41	41	38	41	42	45	48	53	53	53	53	53	53
1600	45	43	41	39	40	41	40	41	37	40	41	44	46	53	53	53	53	53	53
2000	45	45	43	42	42	42	39	39	37	39	42	44	45	51	51	51	51	51	51
2500	44	45	43	42	42	42	39	39	36	39	41	41	41	47	47	47	47	47	47
3150	35	38	35	33	34	34	34	36	34	35	35	36	38	43	43	43	43	43	43
4000	33	32	31	30	31	32	32	35	33	34	33	35	35	39	39	39	39	39	39
5000	35	33	31	30	31	33	32	36	34	34	32	34	34	36	38	38	38	38	38
6300	35	33	31	29	31	34	32	36	35	34	32	32	32	35	35	35	35	35	35
8000	33	33	31	29	30	32	32	35	35	35	33	32	31	34	34	34	34	34	34
10000	30	28	28	27	28	30	30	33	32	33	31	31	29	32	32	32	32	32	32
OVERALL	76	73	72	71	73	74	75	76	76	76	76	77	78	77	77	77	77	77	77

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 8F-702-001
RUN 02
AIRCRAFT CODE 702
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE D4

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	74.7	72.9	71.4	70.3	70.7	71.9	71.1	72.4	71.2	73.0	74.8	76.4	78.5	77.8	77.8	77.8	77.8	77.8	77.8
250	72.4	70.6	69.1	67.9	68.3	69.5	68.6	69.9	68.7	70.5	72.4	74.0	76.1	75.4	75.4	75.4	75.4	75.4	75.4
315	70.0	68.3	66.8	65.5	65.9	67.1	66.0	67.4	66.1	68.0	70.0	71.6	73.7	73.1	73.1	73.1	73.1	73.1	73.1
400	67.5	65.8	64.3	62.9	63.4	64.6	63.5	64.8	63.5	65.4	67.5	69.2	71.3	70.6	70.6	70.6	70.6	70.6	70.6
500	64.9	63.2	61.7	60.3	60.8	61.9	60.8	62.1	60.7	62.6	64.9	66.6	68.7	68.1	68.1	68.1	68.1	68.1	68.1
630	62.3	60.5	58.8	57.5	57.9	59.1	57.9	59.2	57.8	59.8	62.2	63.9	66.1	65.6	65.6	65.6	65.6	65.6	65.6
800	59.4	57.6	55.8	54.7	54.9	56.1	54.9	56.2	54.8	56.7	59.1	60.9	63.2	62.8	62.8	62.8	62.8	62.8	62.8
1000	56.4	54.3	52.4	51.4	51.3	52.8	51.5	53.0	51.6	53.4	55.8	57.6	59.9	59.9	59.9	59.9	59.9	59.9	59.9
1250	52.2	50.4	48.6	47.6	47.5	48.4	46.9	48.6	46.9	49.4	51.9	53.8	56.2	56.5	56.6	56.6	56.6	56.6	56.6
1600	47.8	46.1	44.1	43.0	42.9	44.4	41.8	43.7	41.5	44.1	46.9	49.1	51.8	53.0	53.0	53.0	53.0	53.0	53.0
2000	43.3	41.0	39.1	38.1	37.8	39.8	36.4	38.3	34.4	38.1	41.4	43.7	46.7	48.5	48.5	48.5	48.5	48.5	48.5
2500	37.8	35.1	31.8	30.5	31.4	33.8	29.2	32.3	25.7	31.5	34.2	37.8	41.5	43.4	43.4	43.4	43.4	43.4	43.4
3150	30.2	26.0	21.8	20.5	21.9	26.3	18.3	22.4	14.7	19.2	25.6	30.6	35.0	37.2	37.2	37.2	37.2	37.2	37.2
4000	20.7	16.0	8.4	10.5	9.5	15.1	7.7	13.4	3.7	10.8	13.6	17.8	27.6	30.3	30.3	30.3	30.3	30.3	30.3
5000	7.5	6.1		.4		3.9		4.3		2.3	1.5	6.9	16.8	22.4	22.4	22.4	22.4	22.4	22.4
6300													6.0	7.4	7.4	7.4	7.4	7.4	7.4
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNOB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 02
AIRCRAFT CODE 702
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE E4

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	75.5	74.3	72.8	71.5	71.5	73.2	71.1	72.4	71.2	73.0	74.8	76.4	78.5	77.8	77.8	77.8	77.8	77.8	77.8
250	73.1	72.0	70.5	69.1	69.1	70.8	68.6	69.9	68.7	70.5	72.4	74.0	76.1	75.4	75.4	75.4	75.4	75.4	75.4
315	70.7	69.6	68.1	66.7	66.7	68.4	66.0	67.4	66.1	68.0	70.0	71.6	73.7	73.1	73.1	73.1	73.1	73.1	73.1
400	68.2	67.1	65.7	64.1	64.2	65.9	63.5	64.8	63.2	65.4	67.5	69.2	71.3	70.6	70.6	70.6	70.6	70.6	70.6
500	65.7	64.6	63.0	61.5	61.6	63.3	60.8	62.1	60.7	62.6	64.9	66.6	68.7	68.1	68.1	68.1	68.1	68.1	68.1
630	63.0	61.8	60.2	58.7	58.7	60.5	57.9	59.2	57.8	59.8	62.2	63.9	66.1	65.6	65.6	65.6	65.6	65.6	65.6
800	60.2	58.8	57.2	55.9	55.6	57.5	54.9	56.2	54.8	56.7	59.1	60.9	63.2	62.8	62.8	62.8	62.8	62.8	62.8
1000	57.1	55.6	53.8	52.6	52.1	54.2	51.5	53.0	51.6	53.4	55.8	57.6	59.9	59.9	59.9	59.9	59.9	59.9	59.9
1250	53.0	51.8	50.0	48.8	48.3	49.7	46.9	48.6	46.9	49.4	51.9	53.8	56.2	56.5	56.6	56.6	56.6	56.6	56.6
1600	48.6	47.4	45.4	44.2	43.7	45.8	41.8	43.7	41.5	44.1	46.9	49.1	51.8	53.0	53.0	53.0	53.0	53.0	53.0
2000	44.0	42.3	40.5	39.3	38.6	41.2	36.4	38.3	34.4	38.1	41.4	43.7	46.7	48.5	48.5	48.5	48.5	48.5	48.5
2500	38.5	36.5	33.1	31.8	32.2	35.2	29.2	32.3	25.7	31.5	34.2	37.8	41.5	43.4	43.4	43.4	43.4	43.4	43.4
3150	30.9	27.3	23.2	21.7	22.6	27.7	18.3	22.4	14.7	19.2	25.6	30.6	35.0	37.2	37.2	37.2	37.2	37.2	37.2
4000	21.3	17.1	9.5	11.4	10.1	16.2	7.7	13.4	3.7	10.8	13.6	17.8	27.6	30.3	30.3	30.3	30.3	30.3	30.3
5000	8.0	6.9		1.2		4.7		4.3		2.3	1.5	6.9	16.8	22.4	22.4	22.4	22.4	22.4	22.4
6300													5.0	7.4	7.4	7.4	7.4	7.4	7.4
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 02
AIRCRAFT CODE 702
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE F4

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	59.9	58.3	57.1	56.2	56.5	57.3	56.0	56.9	55.3	57.3	59.5	61.0	63.2	64.1	64.1	64.1	64.1	64.1	64.1
250	57.8	56.3	55.0	54.1	54.4	55.2	53.9	54.9	53.2	55.2	57.5	59.0	61.2	62.0	62.0	62.0	62.0	62.0	62.0
315	55.8	54.2	52.9	52.0	52.3	53.1	51.8	52.8	51.1	53.2	55.4	56.9	59.1	59.9	59.9	59.9	59.9	59.9	59.9
400	53.7	52.0	50.8	49.9	50.2	51.0	49.7	50.6	49.0	51.0	53.4	54.8	57.0	57.7	57.7	57.7	57.7	57.7	57.7
500	51.5	49.8	48.6	47.8	48.0	48.8	47.6	48.5	46.9	48.9	51.2	52.6	54.9	55.6	55.6	55.6	55.6	55.6	55.6
630	49.2	47.5	46.3	45.5	45.7	46.6	45.4	46.3	44.7	46.6	48.9	50.4	52.6	53.3	53.3	53.3	53.3	53.3	53.3
800	46.9	45.2	44.0	43.1	43.4	44.3	43.1	44.0	42.5	44.3	46.6	48.0	50.2	50.9	50.9	50.9	50.9	50.9	50.9
1000	44.5	42.7	41.5	40.7	41.0	41.9	40.7	41.7	40.2	41.9	44.0	45.4	47.6	48.5	48.5	48.5	48.5	48.5	48.5
1250	41.8	39.9	38.7	37.9	38.3	39.3	38.2	39.2	37.6	39.3	41.2	42.7	44.9	45.9	45.9	45.9	45.9	45.9	45.9
1600	39.0	37.0	35.8	34.9	35.4	36.5	35.4	36.4	34.8	36.5	38.2	39.7	42.0	43.1	43.1	43.1	43.1	43.1	43.1
2000	35.9	33.9	32.7	31.8	32.4	33.6	32.3	33.4	31.7	33.3	35.1	36.6	38.9	40.2	40.2	40.2	40.2	40.2	40.2
2500	32.6	30.6	29.3	28.3	29.1	30.4	29.1	30.2	28.3	30.0	31.6	33.2	35.6	37.1	37.1	37.1	37.1	37.1	37.1
3150	28.9	26.9	25.5	24.4	25.5	26.9	25.5	26.7	24.6	26.3	27.8	29.5	32.1	33.7	33.7	33.7	33.7	33.7	33.7
4000	24.8	22.8	21.4	20.3	21.5	23.0	21.7	22.8	20.6	22.4	23.8	25.5	28.3	30.1	30.1	30.1	30.1	30.1	30.1
5000	20.4	18.5	17.0	15.8	17.2	18.8	17.5	18.6	16.3	18.2	19.6	21.4	24.2	26.1	26.1	26.1	26.1	26.1	26.1
6300	15.8	13.9	12.5	11.2	12.7	14.4	13.1	14.2	11.8	13.7	15.2	17.0	19.8	21.7	21.7	21.7	21.7	21.7	21.7
8000	12.2	10.2	8.8	7.6	9.0	10.7	9.5	10.6	8.4	10.2	11.6	13.3	16.1	17.5	17.5	17.5	17.5	17.5	17.5
10000	8.5	6.3	5.0	3.9	5.2	6.9	5.8	6.9	5.0	6.6	7.9	9.5	12.2	13.0	13.0	13.0	13.0	13.0	13.0
12500	4.7	2.5	1.2	.1	1.4	3.0	2.1	3.1	1.6	3.0	4.2	5.6	8.1	8.3	8.3	8.3	8.3	8.3	8.3
16000	.9										.6	1.9	4.1	3.5	3.5	3.5	3.5	3.5	3.5
20000													.2						
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 02
AIRCRAFT CODE 702
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE G4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	60.6	59.7	58.5	57.4	57.2	58.0	56.0	56.9	55.3	57.3	59.5	61.0	63.2	64.1	64.1	64.1	64.1	64.1	64.1
250	58.6	57.6	56.4	55.3	55.1	56.5	53.9	54.9	53.2	55.2	57.5	59.0	61.2	62.0	62.0	62.0	62.0	62.0	62.0
315	56.5	55.5	54.3	53.2	53.1	54.5	51.8	52.8	51.1	53.2	55.4	56.9	59.1	59.9	59.9	59.9	59.9	59.9	59.9
400	54.4	53.4	52.2	51.1	50.9	52.3	49.7	50.6	49.0	51.0	53.4	54.8	57.0	57.7	57.7	57.7	57.7	57.7	57.7
500	52.2	51.2	50.0	49.0	48.8	50.2	47.6	48.5	46.9	48.9	51.2	52.6	54.9	55.6	55.6	55.6	55.6	55.6	55.6
630	50.0	48.9	47.7	46.7	46.5	47.9	45.4	46.3	44.7	46.6	48.9	50.4	52.6	53.3	53.3	53.3	53.3	53.3	53.3
800	47.6	46.5	45.3	44.3	44.2	45.6	43.1	44.0	42.5	44.3	46.6	48.0	50.2	50.9	50.9	50.9	50.9	50.9	50.9
1000	45.2	44.0	42.9	41.9	41.7	43.2	40.7	41.7	40.2	41.9	44.0	45.4	47.6	48.5	48.5	48.5	48.5	48.5	48.5
1250	42.6	41.3	40.1	39.1	39.0	40.6	38.2	39.2	37.6	39.3	41.2	42.7	44.9	45.9	45.9	45.9	45.9	45.9	45.9
1600	39.7	38.4	37.2	36.1	36.2	37.9	35.4	36.4	34.8	36.5	38.2	39.7	42.0	43.1	43.1	43.1	43.1	43.1	43.1
2000	36.7	35.3	34.1	33.0	33.1	34.9	32.3	33.4	31.7	33.3	35.1	36.6	38.9	40.2	40.2	40.2	40.2	40.2	40.2
2500	33.3	31.9	30.7	29.5	29.8	31.8	29.1	30.2	28.3	30.0	31.6	33.2	35.6	37.1	37.1	37.1	37.1	37.1	37.1
3150	29.6	28.2	26.9	25.7	26.2	28.2	25.5	26.7	24.6	26.3	27.8	29.5	32.1	33.7	33.7	33.7	33.7	33.7	33.7
4000	25.4	23.9	22.5	21.2	22.1	24.1	21.7	22.8	20.6	22.4	23.8	25.5	28.3	30.1	30.1	30.1	30.1	30.1	30.1
5000	20.8	19.3	17.9	16.5	17.6	19.6	17.5	18.6	16.3	16.2	19.6	21.4	24.2	26.1	26.1	26.1	26.1	26.1	26.1
6300	16.1	14.5	13.0	11.7	13.0	14.9	13.1	14.2	11.8	13.7	15.2	17.0	19.8	21.7	21.7	21.7	21.7	21.7	21.7
8000	12.3	10.4	9.0	7.8	9.2	11.0	9.5	10.6	8.4	10.2	11.6	13.3	16.1	17.5	17.5	17.5	17.5	17.5	17.5
10000	8.5	6.3	5.0	3.9	5.2	6.9	5.8	6.9	5.0	6.6	7.9	9.5	12.2	13.0	13.0	13.0	13.0	13.0	13.0
12500	4.7	2.5	1.2	.1	1.4	3.0	2.1	3.1	1.6	3.0	4.2	5.6	8.1	8.3	8.3	8.3	8.3	8.3	8.3
16000	.9										.6	1.9	4.1	3.5	3.5	3.5	3.5	3.5	3.5
20000													.2						
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 02
AIRCRAFT CODE 702
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE J4

P=PNLT A=AL T=ALT

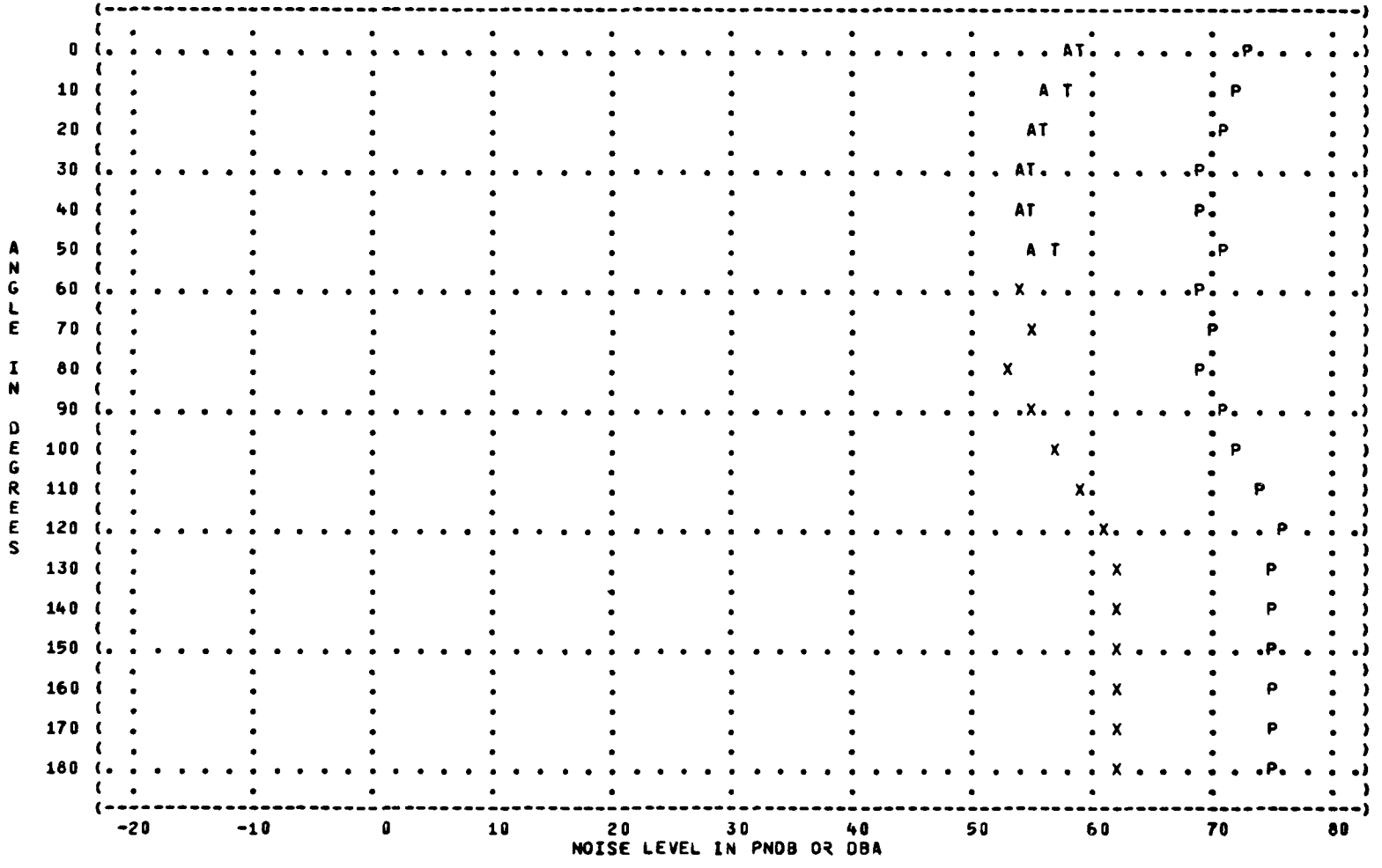


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-782-081
RUN 03
AIRCRAFT CODE 702
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE C2

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (98.8%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	73	74	71	71	72	72	76	73	75	76	72	75	73	76	76	76	76	76	76
63	73	69	[illegible]	70	74	73	72	71	73	76	72	74	76	74	74	74	74	74	74
80	74	72	67	68	71	73	71	70	72	73	77	76	76	74	74	74	74	74	74
100	70	69	66	69	66	68	68	65	65	71	77	75	78	76	76	76	76	76	76
125	64	68	65	66	62	64	62	60	62	70	72	72	76	73	73	73	73	73	73
160	64	64	61	60	59<	61<	59	56<	58<	64	65	68	71	67	67	67	67	67	67
200	62	58	60	60	56	58	56	52	55	61	59	62	64	64	64	64	64	64	64
250	57	59	61	57	57	54	55	52	55	54	56	59	60	60	60	60	60	60	60
315	60	60	59	58	56	50	52	53	55	53	55	57	57	58	58	58	58	58	58
400	61	59	61	56	58	53	54	54	57	53	53	56	57	56	56	56	56	56	56
500	62	60	59	55	60	61	57	58	56	54	57	57	59	60	60	60	60	60	60
630	59	56	55	52	55	57	55	56	57	57	56	59	60	62	62	62	62	62	62
800	54	54	52	52<	53	54	57	55	56	57	55	59	61	64	64	64	64	64	64
1000	52	55<	53<	51<	51	53	52	52<	53	54<	52	56	57	60	60	60	60	60	60
1250	55	56	54	50	55	55	53	50	53	50	51	55	58	60	60	60	60	60	60
1600	52	53	50	47	52	49	51	49<	54	47	48	54	56	60	60	60	60	60	60
2000	48	50	48	46	46	47<	51	48	54	46<	47	53	54	58	58	58	58	58	58
2500	46<	47<	46<	44<	44<	45<	48	45<	50	44<	45<	49	50	51	51	51	51	51	51
3150	44<	43<	43<	42<	42<	43<	46	43<	50	42<	44<	46	47	49	49	49	49	49	49
4000	42<	40<	40<	40<	39<	40<	45	41	50	41	42<	44	43	45	45	45	45	45	45
5000	40	37	37<	38<	37<	38<	45	41	51	41	40	44	42	44	44	44	44	44	44
6300	40	37	35<	36<	34	36<	46	41	51	39	40	45	40	42	42	42	42	42	42
8000	37	35<	32<	33<	33<	34<	44	39	48	39	38	43	39	41	41	41	41	41	41
10000	36	32	29	31	32	31	43	38	48	36	38	42	36	37	37	37	37	37	37
OVERALL	79	78	76	76	78	78	79	77	79	81	82	82	84	82	82	82	82	82	82

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (98.8%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 03
AIRCRAFT CODE 702
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	81.3	80.0	79.2	77.9	78.7	79.1	79.5	77.6	81.8	80.6	83.3	84.1	86.4	85.7	85.7	85.7	85.7	85.7	85.7
250	78.9	77.7	76.9	75.5	76.4	76.8	77.1	75.4	79.5	78.3	80.9	81.7	84.1	83.3	83.3	83.3	83.3	83.3	83.3
315	76.6	75.5	74.7	73.2	74.2	74.6	74.7	73.1	77.1	75.9	78.5	79.3	81.7	80.9	80.9	80.9	80.9	80.9	80.9
400	74.3	73.2	72.4	70.8	71.9	72.3	72.3	70.7	74.7	73.5	76.1	76.9	79.3	78.5	78.5	78.5	78.5	78.5	78.5
500	71.9	70.8	70.1	68.3	69.5	69.9	69.8	68.4	72.1	70.9	73.6	74.4	76.8	76.1	76.1	76.1	76.1	76.1	76.1
630	69.4	68.4	67.6	65.7	67.1	67.5	67.2	65.8	69.5	68.2	71.0	71.8	74.2	73.5	73.5	73.5	73.5	73.5	73.5
800	66.9	65.8	65.1	62.8	64.5	64.9	64.5	63.2	66.8	65.3	68.1	69.0	71.4	70.7	70.7	70.7	70.7	70.7	70.7
1000	64.2	63.1	62.4	59.9	61.8	62.2	61.5	60.4	63.8	62.2	64.9	65.8	68.3	67.9	67.9	67.9	67.9	67.9	67.9
1250	61.3	60.2	59.4	56.5	58.8	59.2	58.3	57.3	60.5	59.9	61.3	62.4	64.9	65.0	65.0	65.0	65.0	65.0	65.0
1600	58.0	56.9	56.2	53.0	55.6	55.9	54.8	53.9	57.0	55.1	57.2	58.6	61.1	61.5	61.6	61.6	61.6	61.6	61.6
2000	54.6	53.3	52.7	49.1	52.0	52.3	50.8	50.2	52.8	51.0	52.7	54.4	56.9	58.0	58.0	58.0	58.0	58.0	58.0
2500	50.5	49.1	48.0	44.4	47.9	48.3	46.4	45.7	47.9	46.4	47.0	50.0	52.3	54.0	54.0	54.0	54.0	54.0	54.0
3150	45.6	44.1	42.7	38.7	42.3	42.8	40.3	40.2	42.1	41.2	41.7	45.1	47.4	49.5	49.6	49.6	49.6	49.6	49.6
4000	39.3	37.9	37.1	32.0	36.6	37.0	34.6	34.5	36.9	34.4	35.1	39.2	41.6	43.9	43.9	43.9	43.9	43.9	43.9
5000	32.9	31.8	29.9	23.4	30.3	30.9	28.6	27.2	30.2	27.4	25.8	32.1	35.6	38.1	38.1	38.1	38.1	38.1	38.1
6300	25.8	23.5	21.4	10.1	21.6	23.6	17.8	18.3	18.9	19.6	16.2	23.9	27.6	32.0	32.0	32.0	32.0	32.0	32.0
8000	17.7	14.2	11.5		12.8	15.4	7.7	9.6	10.1	10.7	6.6	14.1	18.3	24.9	24.9	24.9	24.9	24.9	24.9
10000	10.1	4.8	1.6		4.0	7.8		.8	1.3	1.9		4.3	9.3	15.7	15.7	15.7	15.7	15.7	15.7
12500	2.5					.2							.2	6.5	6.5	6.5	6.5	6.5	6.5
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (98.8%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 03
AIRCRAFT CODE 702
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	82.4	80.0	79.2	77.9	80.0	80.7	80.6	78.8	81.8	80.6	83.3	84.1	86.4	85.7	85.7	85.7	85.7	85.7	85.7
250	80.0	77.7	76.9	75.5	77.8	78.4	78.2	76.5	79.5	78.3	80.9	81.7	84.1	83.3	83.3	83.3	83.3	83.3	83.3
315	77.6	75.5	74.7	73.2	75.5	76.2	75.8	74.2	77.1	75.9	78.5	79.3	81.7	80.9	80.9	80.9	80.9	80.9	80.9
400	75.3	73.2	72.4	70.8	73.2	73.9	73.3	71.9	74.7	73.5	76.1	76.9	79.3	78.5	78.5	78.5	78.5	78.5	78.5
500	73.0	70.8	70.1	68.3	70.8	71.5	70.9	69.5	72.1	70.9	73.6	74.4	76.8	76.1	76.1	76.1	76.1	76.1	76.1
630	70.5	68.4	67.6	65.7	68.4	69.0	68.3	67.0	69.5	68.2	71.0	71.8	74.2	73.5	73.5	73.5	73.5	73.5	73.5
800	68.0	65.8	65.1	62.8	65.8	66.5	65.5	64.4	66.8	65.3	68.1	69.0	71.4	70.7	70.7	70.7	70.7	70.7	70.7
1000	65.3	63.1	62.4	59.9	63.1	63.8	62.5	61.5	63.8	62.2	64.9	65.8	68.3	67.9	67.9	67.9	67.9	67.9	67.9
1250	62.4	60.2	59.4	56.5	60.1	60.8	59.4	58.5	60.5	58.9	61.3	62.4	64.9	65.0	65.0	65.0	65.0	65.0	65.0
1600	59.1	56.9	56.2	53.0	56.9	57.5	55.9	55.0	57.0	55.1	57.2	58.6	61.1	61.6	61.6	61.6	61.6	61.6	61.6
2000	55.6	53.3	52.7	49.1	53.3	53.9	51.9	51.4	52.8	51.0	52.7	54.4	56.9	58.0	58.0	58.0	58.0	58.0	58.0
2500	51.6	49.1	48.0	44.4	49.2	49.8	47.4	46.8	47.9	46.4	47.0	50.0	52.3	54.0	54.0	54.0	54.0	54.0	54.0
3150	46.7	44.1	42.7	38.7	43.6	44.4	41.4	41.4	42.1	41.2	41.7	45.1	47.4	49.6	49.6	49.6	49.6	49.6	49.6
4000	40.2	37.9	37.1	32.0	37.7	38.3	35.4	35.4	36.9	34.4	35.1	39.2	41.6	43.9	43.9	43.9	43.9	43.9	43.9
5000	33.5	31.8	29.9	23.4	31.1	31.9	29.2	27.9	30.2	27.4	25.8	32.1	35.6	38.1	38.1	38.1	38.1	38.1	38.1
6300	26.3	23.5	21.4	10.1	22.1	24.3	18.2	18.8	18.9	19.6	16.2	23.9	27.6	32.0	32.0	32.0	32.0	32.0	32.0
8000	18.0	14.2	11.5		13.0	15.8	7.9	9.8	10.1	10.7	6.6	14.1	18.3	24.9	24.9	24.9	24.9	24.9	24.9
10000	10.1	4.8	1.6		4.0	7.8		.8	1.3	1.9		4.3	9.3	15.7	15.7	15.7	15.7	15.7	15.7
12500	2.5					.2							.2	6.5	6.5	6.5	6.5	6.5	6.5
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 03
AIRCRAFT CODE 702
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE F2

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (98.8%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.8	67.2	66.3	63.9	65.8	66.0	65.6	64.4	67.4	65.9	66.8	68.8	71.0	72.2	72.2	72.2	72.2	72.2	72.2
250	65.8	65.1	64.2	61.9	63.7	64.0	63.5	62.3	65.2	63.9	64.8	66.7	68.9	70.1	70.1	70.1	70.1	70.1	70.1
315	63.7	63.1	62.1	59.8	61.7	61.9	61.4	60.3	63.0	61.8	62.7	64.6	66.8	68.0	68.0	68.0	68.0	68.0	68.0
400	61.6	60.9	60.0	57.7	59.6	59.8	59.2	58.1	60.8	59.7	60.6	62.5	64.7	65.9	65.9	65.9	65.9	65.9	65.9
500	59.4	58.8	57.9	55.5	57.4	57.7	57.0	56.0	58.5	57.5	58.5	60.3	62.5	63.7	63.7	63.7	63.7	63.7	63.7
630	57.2	56.6	55.7	53.3	55.2	55.5	54.7	53.8	56.2	55.3	56.2	58.1	60.3	61.4	61.4	61.4	61.4	61.4	61.4
800	55.0	54.3	53.4	51.0	53.0	53.2	52.4	51.5	53.8	53.0	53.9	55.7	57.9	59.1	59.1	59.1	59.1	59.1	59.1
1000	52.7	51.9	51.1	48.6	50.7	50.9	50.1	49.2	51.4	50.6	51.4	53.3	55.4	56.7	56.7	56.7	56.7	56.7	56.7
1250	50.3	49.4	48.6	46.0	48.3	48.5	47.6	46.8	48.8	48.1	48.7	50.7	52.8	54.2	54.2	54.2	54.2	54.2	54.2
1600	47.7	46.8	46.0	43.3	45.7	46.0	45.0	44.3	46.2	45.4	45.8	48.0	50.0	51.6	51.6	51.6	51.6	51.6	51.6
2000	45.1	44.1	43.4	40.5	43.1	43.3	42.2	41.7	43.4	42.5	42.8	45.1	47.1	48.9	48.9	48.9	48.9	48.9	48.9
2500	42.1	41.1	40.3	37.4	40.1	40.5	39.3	38.8	40.4	39.5	39.6	42.1	44.0	46.0	46.0	46.0	46.0	46.0	46.0
3150	38.7	37.7	36.8	34.0	36.8	37.3	36.1	35.6	37.1	36.3	36.1	38.8	40.7	42.8	42.8	42.8	42.8	42.8	42.8
4000	35.0	34.0	33.0	30.2	33.1	33.7	32.5	32.1	33.4	32.7	32.3	35.2	37.0	39.4	39.4	39.4	39.4	39.4	39.4
5000	30.8	29.8	28.8	26.0	28.9	29.6	28.5	28.0	29.3	28.8	28.2	31.2	33.0	35.4	35.4	35.4	35.4	35.4	35.4
6300	26.4	25.5	24.4	21.6	24.5	25.3	24.2	23.7	24.9	24.5	23.9	26.9	28.7	31.1	31.1	31.1	31.1	31.1	31.1
8000	22.7	21.6	20.6	17.9	20.8	21.6	20.3	20.0	21.0	20.8	20.3	23.0	24.8	27.1	27.1	27.1	27.1	27.1	27.1
10000	18.8	17.5	16.7	13.9	16.7	17.6	16.1	15.0	16.8	16.7	16.4	18.8	20.7	22.7	22.7	22.7	22.7	22.7	22.7
12500	14.6	13.2	12.4	9.6	12.5	13.2	11.7	11.6	12.3	12.4	12.4	14.4	16.3	18.0	18.0	18.0	18.0	18.0	18.0
16000	10.1	8.5	7.9	5.2	7.9	8.6	6.9	6.9	7.5	7.8	8.3	9.8	11.7	12.9	12.9	12.9	12.9	12.9	12.9
20000	5.4	3.8	3.0	.6	3.1	3.7	2.1	2.0	2.6	3.4	4.3	5.2	7.2	7.5	7.5	7.5	7.5	7.5	7.5
25000	.5										.6	.9	3.1	2.4	2.4	2.4	2.4	2.4	2.4

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (98.8%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 03
AIRCRAFT CODE 702
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	68.9	67.2	66.3	63.9	67.1	67.6	66.7	65.6	67.4	65.9	66.8	68.8	71.0	72.2	72.2	72.2	72.2	72.2	72.2
250	66.8	65.1	64.2	61.9	65.1	65.6	64.5	63.5	65.2	63.9	64.8	66.7	68.9	70.1	70.1	70.1	70.1	70.1	70.1
315	64.8	63.1	62.1	59.8	63.0	63.5	62.4	61.4	63.0	61.8	62.7	64.6	66.8	68.0	68.0	68.0	68.0	68.0	68.0
400	62.7	60.9	60.0	57.7	60.9	61.4	60.2	59.3	60.6	59.7	60.6	62.5	64.7	65.9	65.9	65.9	65.9	65.9	65.9
500	60.5	58.8	57.9	55.5	58.7	59.2	58.0	57.1	58.5	57.5	58.5	60.3	62.5	63.7	63.7	63.7	63.7	63.7	63.7
630	58.3	56.6	55.7	53.3	56.5	57.1	55.8	54.9	56.2	55.3	56.2	58.1	60.3	61.4	61.4	61.4	61.4	61.4	61.4
800	56.1	54.3	53.4	51.0	54.3	54.8	53.5	52.7	53.8	53.0	53.9	55.7	57.9	59.1	59.1	59.1	59.1	59.1	59.1
1000	53.8	51.9	51.1	48.6	52.0	52.5	51.1	50.4	51.4	50.6	51.4	53.3	55.4	56.7	56.7	56.7	56.7	56.7	56.7
1250	51.3	49.4	48.6	46.0	49.6	50.1	48.6	48.0	48.8	48.1	48.7	50.7	52.8	54.2	54.2	54.2	54.2	54.2	54.2
1600	48.8	46.8	46.0	43.3	47.0	47.5	46.0	45.5	46.2	45.4	45.8	48.0	50.0	51.6	51.6	51.6	51.6	51.6	51.6
2000	46.2	44.1	43.4	40.5	44.4	44.9	43.3	42.6	43.4	42.5	42.8	45.1	47.1	48.9	48.9	48.9	48.9	48.9	48.9
2500	43.2	41.1	40.3	37.4	41.4	42.1	40.4	40.0	40.4	39.5	39.6	42.1	44.0	46.0	46.0	46.0	46.0	46.0	46.0
3150	39.8	37.7	36.8	34.0	38.1	38.9	37.1	36.8	37.1	36.3	36.1	38.8	40.7	42.8	42.8	42.8	42.8	42.8	42.8
4000	35.8	34.0	33.0	30.2	34.1	34.9	33.4	33.0	33.4	32.7	32.3	35.2	37.0	39.4	39.4	39.4	39.4	39.4	39.4
5000	31.4	29.8	28.8	26.0	29.7	30.6	29.1	28.7	29.3	28.8	28.2	31.2	33.0	35.4	35.4	35.4	35.4	35.4	35.4
6300	26.8	25.5	24.4	21.6	25.1	25.9	24.6	24.2	24.9	24.5	23.9	26.9	28.7	31.1	31.1	31.1	31.1	31.1	31.1
8000	22.9	21.6	20.6	17.9	21.0	21.9	20.5	20.2	21.0	20.8	20.3	23.0	24.8	27.1	27.1	27.1	27.1	27.1	27.1
10000	18.8	17.5	16.7	13.9	16.7	17.6	16.1	16.0	16.8	16.1	16.4	18.8	20.7	22.7	22.7	22.7	22.7	22.7	22.7
12500	14.6	13.2	12.4	9.6	12.5	13.2	11.7	11.6	12.3	12.4	12.4	14.4	16.3	18.0	18.0	18.0	18.0	18.0	18.0
16000	10.1	8.5	7.9	5.2	7.9	8.6	6.9	6.9	7.5	7.8	8.3	9.8	11.7	12.9	12.9	12.9	12.9	12.9	12.9
20000	5.4	3.8	3.0	.6	3.1	3.7	2.1	2.0	2.6	3.4	4.3	5.2	7.2	7.5	7.5	7.5	7.5	7.5	7.5
25000	.5										.6	.9	3.1	2.4	2.4	2.4	2.4	2.4	2.4

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (98.8%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 8F-702-001
RUN 03
AIRCRAFT CODE 702
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE J2

P=PNLT A=AL T=ALT

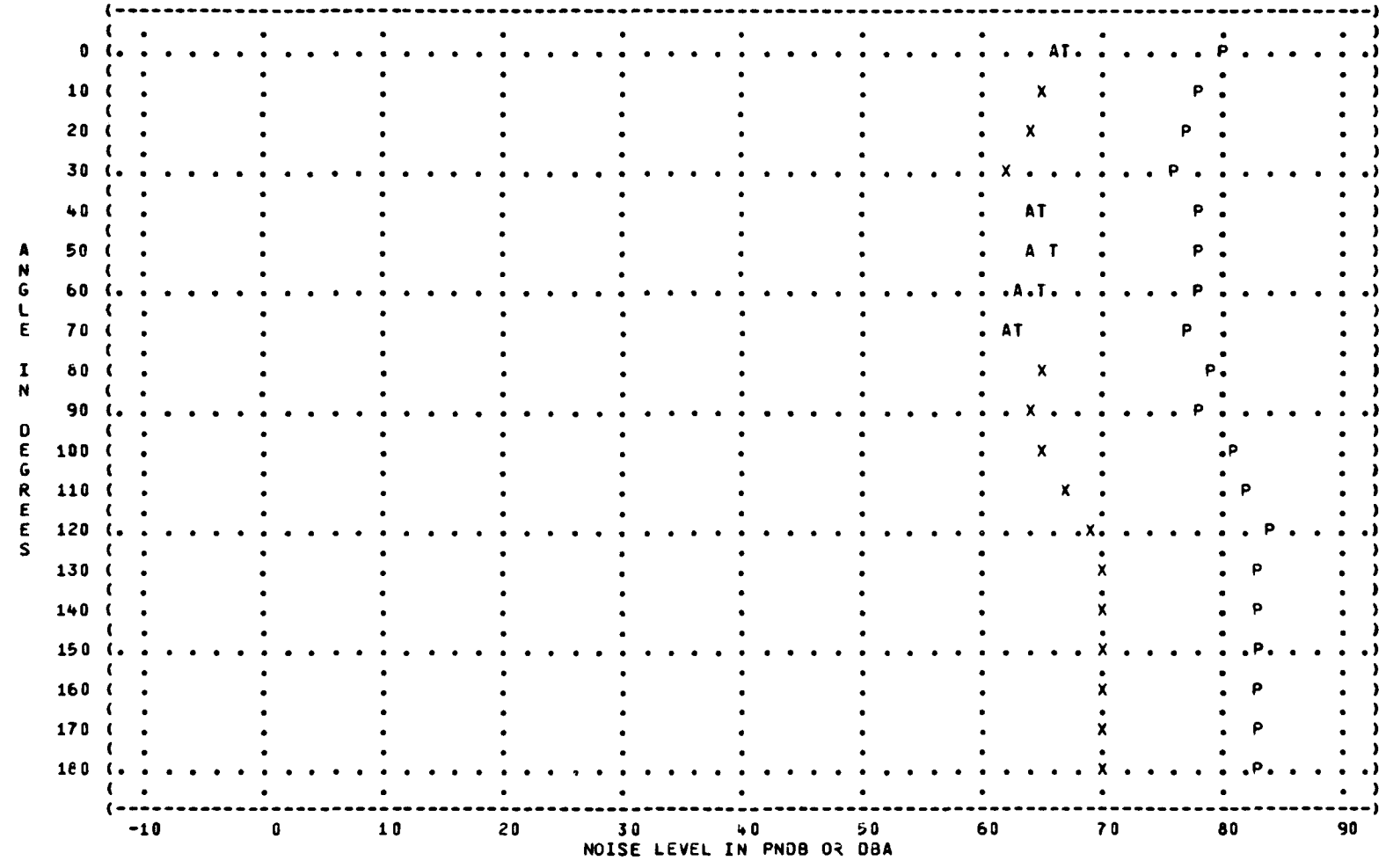


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 04
AIRCRAFT CODE 702
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE C1

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER PWR (96.8%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.32 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	79	78	79	79	84	82	88	91	89	90	84	88	88	91	90	92	91	91	92
63	76	74	74	76	79	79	82	84	82	84	83	84	86	85	82	84	85	85	85
80	77	73	71	74	75	79	78	80	79	79	84	84	84	83	80	83	83	80	77
100	77	73	74	73	74	74	72	74	73	78	85	84	86	87	84	79	87	77	74
125	73	74	71	71	73	74	69	72	72	78	83	84	83	84	81	78	84	75	74
160	70	70	68	66	68	64	67	68	67	74	75	79	83	79	75	72	79	67	66
200	66	67	63	66	64	64	62	66	64	69	69	73	74	77	72	70	77	64	63
250	63	68	65	64	62	60	62	63	62	67	67	69	70	71	72	70	71	67	64
315	68	67	69	62	63	59	62	63	60	64	65	66	64	67	68	71	67	69	63
400	67	63	67	61	64	60	62	65	61	64	65	68	66	67	66	70	67	68	63
500	68	66	64	62	64	66	65	66	61	63	65	67	68	66	68	70	68	68	62
630	66	64	62	61	64	65	65	65	63	65	64	68	69	69	69	72	69	69	64
800	65	60	60	58	62	63	65	65	64	65	64	68	68	68	70	72	68	67	64
1000	64	59	58	57	60	62	61	62	59	60	60	65	65	65	67	68	65	66	61
1250	65	63	62	58	62	63	61	61	57	60	59	64	65	66	67	70	66	68	62
1600	63	60	58	56	60	58	60	61	56	57	57	63	63	67	68	69	67	64	60
2000	65	57	56	56	58	55	59	61	56	55	55	61	61	64	64	64	64	61	59
2500	59	51	52	53	56	53	57	58	54	53	52	56	57	57	59	62	57	59	57
3150	60	45	45	50	53	51	56	57	54	53	51	56	54	55	56	60	55	56	55
4000	53	43	43	48	52	46	54	57	53	51	48	53	50	52	53	57	52	52	53
5000	46	44	43	47	53	46	54	57	53	52	47	52	51	52	51	58	52	50	52
6300	44	44	42	45	53	45	55	57	53	50	46	49	48	50	49	53	50	49	52
8000	41	41	41	44	51	43	52	55	51	50	45	47	48	48	48	53	48	49	51
10000	38	38	37	40	50	40	51	54	49	47	44	44	45	45	44	50	45	45	50
OVERALL	85	83	83	83	86	86	89	92	91	92	91	92	94	95	92	94	95	93	93

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 8F-702-001
RUN 04
AIRCRAFT CODE 702
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE D1

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER PWR (98.8%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	90.5	86.4	85.9	85.3	88.4	87.1	90.7	93.7	91.1	92.5	92.6	94.6	96.9	96.0	94.7	96.5	96.0	94.0	93.1
250	88.2	84.0	83.6	82.9	85.9	84.7	88.2	91.5	88.6	90.1	90.4	92.5	94.8	93.9	92.4	94.3	93.9	91.8	90.9
315	85.9	81.7	81.4	80.5	83.4	82.3	85.6	88.9	86.0	87.5	88.2	90.3	92.6	91.7	90.0	91.9	91.7	89.3	88.5
400	83.6	79.3	79.1	78.1	80.8	79.9	83.0	86.2	83.3	84.9	86.0	88.0	90.4	89.5	87.7	89.3	89.5	86.7	85.8
500	81.2	77.0	76.8	75.6	78.2	77.4	80.3	83.5	80.6	82.2	83.6	85.5	88.1	87.2	85.2	86.7	87.2	84.1	83.1
630	78.7	74.5	74.3	73.0	75.6	74.9	77.6	80.8	77.8	79.4	81.0	82.7	85.5	84.7	82.6	84.0	84.7	81.4	80.4
800	76.1	72.0	71.8	70.3	72.9	72.2	74.8	77.9	75.0	76.6	78.2	79.9	82.6	81.8	79.8	81.3	81.8	78.6	77.5
1000	73.4	69.3	69.2	67.5	70.1	69.5	71.9	75.0	72.1	73.7	75.0	76.8	79.5	78.7	76.8	78.4	78.7	75.8	74.6
1250	70.4	66.5	66.3	64.4	67.1	66.5	68.8	72.0	69.0	70.6	71.6	73.5	76.1	75.4	73.5	75.4	75.4	72.8	71.6
1600	67.2	63.5	63.2	61.2	63.9	63.5	65.5	68.7	65.7	67.4	67.9	69.9	72.5	71.7	70.3	72.2	71.7	69.6	68.3
2000	63.6	60.1	60.0	57.6	60.4	60.1	61.4	64.6	61.5	63.3	63.7	66.0	68.4	67.7	66.8	68.3	67.7	65.5	64.2
2500	59.6	56.3	55.8	53.5	56.3	56.2	57.3	59.8	56.6	58.5	59.0	62.0	63.9	63.3	63.0	64.4	63.3	61.3	59.4
3150	55.3	51.8	51.0	48.4	51.7	51.8	52.7	54.7	51.1	53.6	53.5	57.7	58.7	59.0	58.5	60.3	59.0	57.2	53.9
4000	50.0	46.3	45.1	42.5	46.0	46.4	47.0	49.8	45.5	48.2	47.8	52.6	53.4	54.0	53.6	55.6	54.0	52.1	47.4
5000	43.7	40.2	39.0	35.6	39.4	39.8	40.8	42.6	38.9	41.7	41.5	47.0	47.5	48.2	47.9	50.6	48.2	46.3	40.8
6300	37.9	33.9	32.9	28.3	33.0	33.8	34.3	35.9	32.8	33.4	33.6	40.1	40.5	41.4	41.6	43.9	41.4	39.9	33.9
8000	32.3	27.7	26.6	18.6	26.1	28.1	28.1	29.8	24.6	28.2	27.5	33.6	35.2	35.8	35.3	38.5	35.8	34.3	26.9
10000	24.8	18.3	17.2	11.1	16.6	19.5	19.0	21.9	16.3	19.4	18.1	27.0	28.6	29.2	29.1	32.2	29.2	28.0	17.4
12500	14.9	9.8	7.3	3.6	7.1	11.3	10.0	12.6	7.9	6.6	7.8	17.0	19.2	18.5	18.5	23.6	18.5	18.8	8.0
16000	5.0	1.3				3.2	1.0	3.3				7.0	6.7	7.8	6.8	14.0	7.8	9.5	
20000																4.3		.3	
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 8F-702-001
RUN 04
AIRCRAFT CODE 702
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE E1

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER PWR (98.8%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	91.8	87.5	87.2	85.3	88.4	88.2	90.7	93.7	92.2	92.5	92.6	94.6	97.6	96.6	95.3	96.5	96.6	95.1	93.1
250	89.6	85.2	85.0	82.9	85.9	85.8	88.2	91.5	89.6	90.1	90.4	92.5	95.5	94.4	93.0	94.3	94.4	92.9	90.9
315	87.3	82.9	82.7	80.5	83.4	83.4	85.6	88.9	87.0	87.5	88.2	90.3	93.3	92.3	90.5	91.9	92.3	90.4	88.5
400	85.0	80.5	80.4	78.1	80.8	81.0	83.0	86.2	84.4	84.9	86.0	88.0	91.1	90.0	88.2	89.3	90.0	87.8	85.8
500	82.6	78.1	78.1	75.6	78.2	78.5	80.3	83.5	81.7	82.2	83.6	85.5	88.8	87.7	85.8	86.7	87.7	85.2	83.1
630	80.1	75.7	75.7	73.0	75.6	75.9	77.6	80.8	78.9	79.4	81.0	82.7	86.2	85.2	83.2	84.0	85.2	82.5	80.4
800	77.5	73.1	73.2	70.3	72.9	73.3	74.8	77.9	76.1	76.6	78.2	79.9	83.3	82.4	80.4	81.3	82.4	79.7	77.5
1000	74.7	70.5	70.5	67.5	70.1	70.6	71.9	75.0	73.2	73.7	75.0	76.8	80.2	79.3	77.4	78.4	79.3	76.9	74.6
1250	71.8	67.7	67.6	64.4	67.1	67.6	68.8	72.0	70.1	70.6	71.6	73.5	76.8	75.9	74.1	75.4	75.9	73.9	71.6
1600	68.6	64.6	64.6	61.2	63.9	64.6	65.5	68.7	66.8	67.4	67.9	69.9	73.2	72.3	70.9	72.2	72.3	70.7	68.3
2000	65.0	61.2	61.3	57.6	60.4	61.2	61.4	64.6	62.5	63.3	63.7	66.0	69.1	68.2	67.4	68.3	68.2	66.7	64.2
2500	61.0	57.5	57.1	53.5	56.3	57.3	57.3	59.8	57.6	58.5	59.0	62.0	64.6	63.3	63.5	64.4	63.9	62.4	59.4
3150	56.6	53.0	52.3	48.4	51.7	52.9	52.7	54.7	52.1	53.6	53.5	57.7	59.4	59.5	59.1	60.3	59.5	58.3	53.9
4000	51.1	47.3	46.1	42.5	46.0	47.3	47.0	49.0	46.3	48.2	47.8	52.6	54.0	54.4	54.0	55.6	54.4	53.0	47.4
5000	44.6	40.9	39.8	35.6	39.4	40.5	40.8	42.6	39.5	41.7	41.5	47.0	48.0	48.5	48.2	50.6	48.5	46.9	40.8
6300	38.4	34.4	33.4	28.3	33.0	34.2	34.3	35.9	32.5	33.4	33.6	40.1	40.8	41.6	41.8	43.9	41.6	40.3	33.9
8000	32.5	28.0	26.9	18.6	26.1	28.3	28.1	29.8	24.8	28.2	27.5	33.6	35.3	35.9	35.4	38.5	35.9	34.5	26.9
10000	24.6	18.3	17.2	11.1	16.6	19.5	19.0	21.9	16.3	19.4	18.1	27.0	28.6	29.2	29.1	32.2	29.2	28.0	17.4
12500	14.9	9.8	7.3	3.6	7.1	11.3	10.0	12.6	7.9	8.6	7.8	17.0	19.2	18.5	18.5	23.6	18.5	18.8	8.0
16000	5.0	1.3				3.2	1.0	3.3				7.0	6.7	7.8	6.8	14.0	7.8	9.5	
20000																4.3		.3	
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (dBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 04
AIRCRAFT CODE 702
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE F1

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER PWR (98.8%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	76.7	73.6	72.9	70.9	73.5	73.5	74.2	75.6	72.6	74.6	75.8	78.7	80.3	79.9	79.5	81.1	79.9	77.9	74.4
250	74.6	71.5	70.9	68.8	71.4	71.4	72.1	73.5	70.5	72.5	73.7	76.6	78.3	77.8	77.4	79.0	77.8	75.9	72.3
315	72.5	69.4	68.8	66.7	69.3	69.3	70.0	71.3	68.4	70.5	71.7	74.5	76.2	75.7	75.3	76.9	75.7	73.8	70.2
400	70.3	67.3	66.7	64.5	67.1	67.2	67.8	69.2	66.3	68.4	69.6	72.4	74.1	73.6	73.2	74.7	73.6	71.7	68.0
500	68.1	65.1	64.6	62.4	64.9	65.0	65.6	66.9	64.1	66.2	67.5	70.3	71.9	71.4	71.0	72.5	71.4	69.5	65.8
630	65.9	62.9	62.4	60.1	62.7	62.8	63.4	64.7	61.8	63.9	65.2	68.0	69.6	69.2	68.8	70.3	69.2	67.3	63.6
800	63.6	60.6	60.1	57.8	60.4	60.6	61.1	62.4	59.6	61.6	62.8	65.6	67.1	66.8	66.5	68.0	66.8	65.0	61.3
1000	61.2	58.2	57.6	55.3	58.0	58.3	58.7	60.0	57.2	59.2	60.3	63.2	64.6	64.3	64.0	65.7	64.3	62.7	59.0
1250	58.7	55.7	55.3	52.8	55.5	55.8	56.3	57.5	54.8	56.7	57.6	60.6	61.8	61.7	61.5	63.2	61.7	60.3	56.6
1600	56.1	53.1	52.7	50.1	52.9	53.3	53.7	55.0	52.2	54.1	54.7	57.8	58.9	58.3	58.9	60.7	58.9	57.7	54.0
2000	53.3	50.3	50.0	47.3	50.1	50.6	51.0	52.2	49.4	51.3	51.7	55.0	55.9	56.0	56.1	58.0	56.0	55.0	51.2
2500	50.3	47.3	46.8	44.2	47.1	47.8	48.1	49.2	46.4	48.2	48.4	51.9	52.6	52.8	53.1	55.0	52.8	52.1	48.1
3150	47.0	44.0	43.4	40.8	43.8	44.6	44.9	45.9	43.1	44.9	44.8	48.5	49.1	49.4	49.9	51.9	49.4	48.8	44.7
4000	43.3	40.3	39.6	37.1	40.2	41.1	41.3	42.2	39.5	41.2	40.9	44.9	45.3	45.7	46.3	48.4	45.7	45.2	41.1
5000	39.2	36.2	35.4	33.0	36.1	37.1	37.3	38.1	35.5	37.1	36.7	40.8	41.2	41.6	42.3	44.4	41.6	41.1	36.9
6300	34.8	31.8	30.9	28.6	31.7	32.8	33.0	33.8	31.2	32.8	32.4	36.5	36.8	37.2	37.9	40.0	37.2	36.8	32.5
8000	30.8	27.9	27.0	24.7	27.7	28.9	29.1	30.0	27.4	29.1	28.8	32.7	33.1	33.4	33.9	36.0	33.4	32.9	28.7
10000	26.5	23.7	22.9	20.7	23.5	24.7	25.0	26.0	23.4	25.1	25.0	28.6	29.2	29.3	29.6	31.7	29.3	28.6	24.7
12500	21.9	19.3	18.6	16.3	19.1	20.2	20.5	21.8	19.2	21.0	21.1	24.3	25.2	25.0	25.0	27.0	25.0	24.1	20.6
16000	17.0	14.6	13.9	11.8	14.4	15.4	15.9	17.4	14.9	16.8	17.1	19.8	21.1	20.7	20.2	22.1	20.7	19.5	16.5
20000	11.8	9.6	9.0	7.2	9.6	10.3	11.2	13.2	10.8	12.7	13.3	15.4	17.1	16.5	15.4	17.0	16.5	14.8	12.7
25000	6.5	4.5	4.0	2.7	5.0	5.4	6.9	9.4	7.2	8.9	9.7	11.2	13.3	12.5	10.9	12.2	12.6	10.5	9.3

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 04
AIRCRAFT CODE 702
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE G1

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER PWR (90.6%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	78.1	74.7	74.3	70.9	73.5	74.5	74.2	75.6	73.7	74.6	75.8	78.7	81.0	80.4	80.1	81.1	80.4	79.0	74.4
250	76.0	72.7	72.2	68.8	71.4	72.5	72.1	73.5	71.6	72.5	73.7	76.6	79.0	78.3	78.0	79.0	78.3	76.9	72.3
315	73.9	70.6	70.1	66.7	69.3	70.4	70.0	71.3	69.5	70.5	71.7	74.5	76.9	76.3	75.9	76.9	76.3	74.8	70.2
400	71.7	68.5	68.0	64.5	67.1	68.3	67.8	69.2	67.3	68.4	69.6	72.4	74.8	74.1	73.8	74.7	74.1	72.7	68.0
500	69.5	66.3	65.9	62.4	64.9	66.1	65.6	66.9	65.1	66.2	67.5	70.3	72.6	72.0	71.6	72.5	72.0	70.6	65.8
630	67.3	64.1	63.7	60.1	62.7	63.9	63.4	64.7	62.9	63.9	65.2	68.0	70.3	69.7	69.4	70.3	69.7	68.4	63.6
800	65.0	61.8	61.4	57.8	60.4	61.7	61.1	62.4	60.6	61.6	62.8	65.6	67.6	67.3	67.0	68.0	67.3	66.1	61.3
1000	62.6	59.4	59.1	55.3	58.0	59.3	58.7	60.0	58.3	59.2	60.3	63.2	65.3	64.8	64.6	65.7	64.8	63.8	59.0
1250	60.0	56.9	56.6	52.8	55.5	56.9	56.3	57.5	55.8	56.7	57.6	60.6	62.5	62.2	62.1	63.2	62.2	61.4	56.6
1600	57.4	54.2	54.0	50.1	52.9	54.3	53.7	55.0	53.2	54.1	54.7	57.8	59.7	59.4	59.5	60.7	59.4	58.8	54.0
2000	54.7	51.5	51.3	47.3	50.1	51.7	51.0	52.2	50.4	51.3	51.7	55.0	56.6	56.5	56.7	58.0	56.5	56.1	51.2
2500	51.7	48.5	48.2	44.2	47.1	48.8	48.1	49.2	47.4	48.2	48.4	51.9	53.3	53.4	53.7	55.0	53.4	53.1	48.1
3150	48.4	45.1	44.7	40.8	43.8	45.7	44.9	45.9	44.2	44.9	44.8	48.5	49.8	50.0	50.4	51.9	50.0	49.9	44.7
4000	44.4	41.2	40.7	37.1	40.2	42.0	41.3	42.2	40.4	41.2	40.9	44.9	45.9	46.1	46.7	48.4	46.1	46.1	41.1
5000	40.8	36.9	36.2	33.0	36.1	37.7	37.3	38.1	36.1	37.1	36.7	40.8	41.6	41.9	42.6	44.4	41.9	41.8	36.9
6300	35.4	32.2	31.4	28.6	31.7	33.2	33.0	33.8	31.6	32.8	32.4	36.5	37.1	37.4	38.2	40.0	37.4	37.2	32.5
8000	31.1	28.1	27.3	24.7	27.7	29.1	29.1	30.0	27.6	29.1	28.8	32.7	33.3	33.5	34.1	36.0	33.5	33.1	28.7
10000	26.5	23.7	22.9	20.7	23.5	24.7	25.0	26.0	23.4	25.1	25.0	28.6	29.2	29.3	29.6	31.7	29.3	28.6	24.7
12500	21.9	19.3	18.6	16.3	19.1	20.2	20.5	21.8	19.2	21.0	21.1	24.3	25.2	25.0	25.0	27.0	25.0	24.1	20.6
16000	17.8	14.6	13.9	11.8	14.4	15.4	15.9	17.4	14.9	15.8	17.1	19.8	21.1	20.7	20.2	22.1	20.7	19.5	16.5
20000	11.8	9.6	9.0	7.2	9.6	10.3	11.2	13.2	10.8	12.7	13.3	15.4	17.1	16.5	15.4	17.0	16.5	14.8	12.7
25000	6.5	4.5	4.0	2.7	5.0	5.4	6.9	9.4	7.2	8.9	9.7	11.2	13.3	12.6	10.9	12.2	12.6	10.5	9.3

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

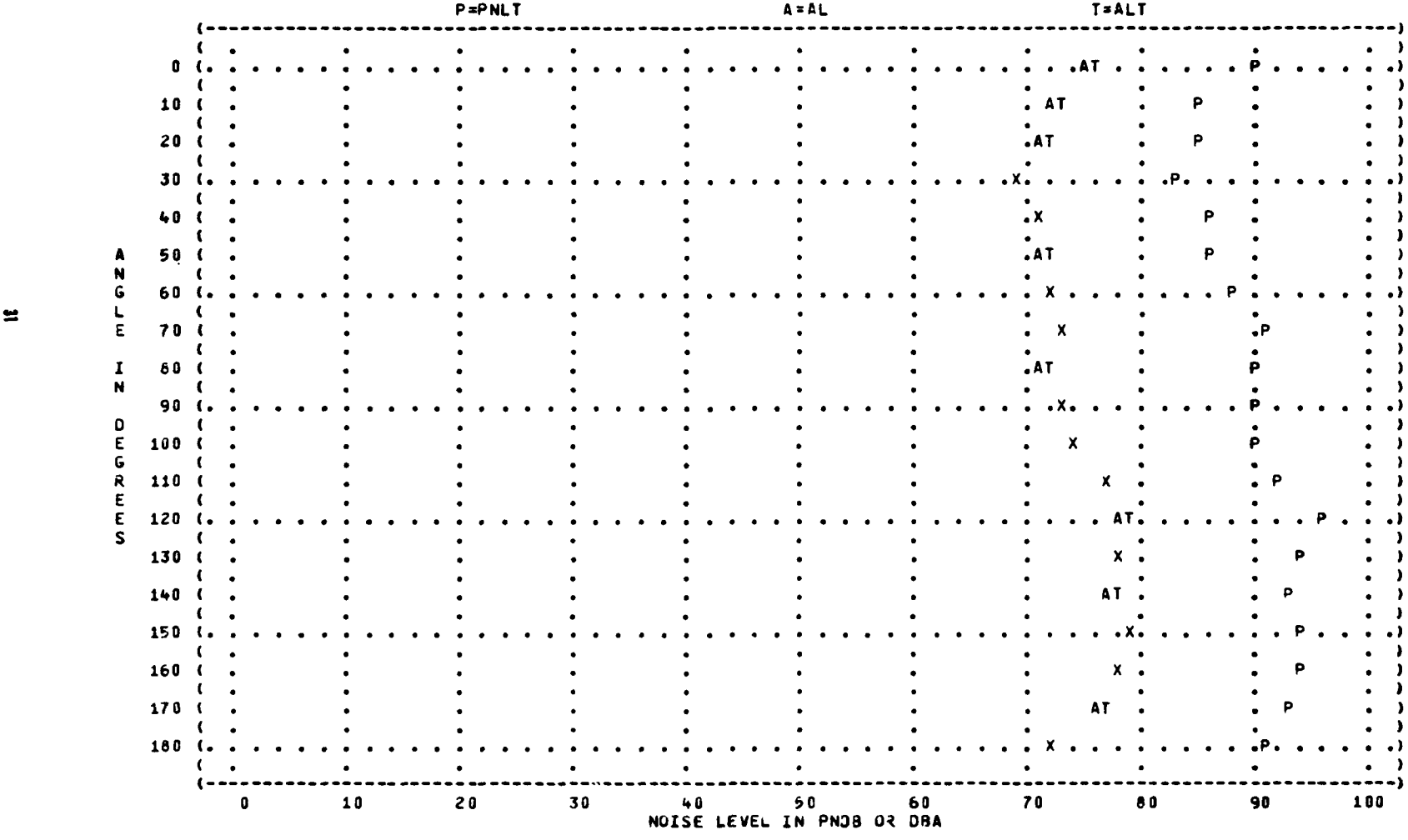
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER PWR (98.8%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-702-001
RUN 04
AIRCRAFT CODE 702
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE J1



USAF HUSH HOUSE(F-15 A/C) HUSH HOUSE(F-15 A/C) HUSH HOUSE(F-15 A/C) HUSH HOUSE(F-15 A/C) USAF

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(F-15 A/C)

DURING GROUND RUN-UP OPERATIONS

TEST 8F-704-001
AIRCRAFT CODE: 704
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting	Page
Idle Power, 68% RPM	33
Engine Runup, 80% RPM	39
Military Power, 92% RPM	45
Afterburner Power, 92% RPM	51

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF HUSH HOUSE(F-15 A/C) HUSH HOUSE(F-15 A/C) HUSH HOUSE(F-15 A/C) HUSH HOUSE(F-15 A/C) USAF

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (66%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 01
AIRCRAFT CODE 704
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE C3

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	55<	53<	58	59<	58	55<	57<	61<	53	58<	56<	57<	62<	56<	57<	58	65<	60<	58<
63	55<	53<	57<	59<	56<	55<	57<	61<	58<	58<	56<	57<	62<	56<	57	56<	65<	60<	58
80	55	53<	55	59<	55<	55	57	61<	57	58	56<	57	62<	56<	60	55	65	60	57
100	60	53<	54<	59	53<	57	60	61	59	60	56	56	62	56	58<	53<	60	59	57
125	58<	53<	53<	57<	52<	55<	57<	58	57<	57<	54<	55<	53<	55<	56<	52<	63	57<	55<
160	55	53<	52<	54	50<	53<	53<	56<	55	54<	52<	54<	50<	54	54<	50<	59	55	54<
200	53<	53<	52	52<	49<	51<	50<	54<	51<	52<	50<	52<	54<	52<	52<	49<	54	51<	52<
250	51	53	53	50	47	49<	46	52<	47	49	48	51	51	50	50<	47<	51	46	50<
315	50	49	47	48	45<	47<	45<	49<	45	46	46<	46	48	48	48<	45<	48	45<	48<
400	47<	46<	45<	44<	43<	45<	43<	47<	44<	44<	44<	44<	45	44	46<	44<	45	44<	46<
500	44	44<	43	41	41<	43<	42<	45<	43<	42<	42<	41<	41	42	44<	42<	40	43<	44<
630	42	42	43	38	39	41<	40<	43<	42<	40	40<	39	42	42	42<	41<	41	42<	42<
800	40	39	43	39	40	39	39	41<	41<	41	39	43	45	47	41<	39<	44	41	40<
1000	42	39	41	42	44	40	39	38	40	43	43	42	45	48	39<	38<	42	41	39<
1250	46	42	42	43	46	43	42	41	41	44	44	42	47	46	37	36	43	41	37
1600	47	45	43	42	45	43	42	41	41	45	43	41	48	48	36	36<	43	44	38
2000	44	43	42	39	39	39	39	38	39	43	41	41	47	44	30<	37<	43	37	36
2500	57	52	44	46	47	45	42	43	41	42	38	39	44	41	24<	37<	40	36	30<
3150	54	52	43	43	44	42	38	41	39	38	33	36	41	38	18<	37	39	36	24<
4000	51	50	42	43	42	41	38	43	41	34	27<	34<	37	35<	12<	34<	37	35<	18<
5000	50	47	40	43	43	41	37	45	42	33	21<	32<	34	31	6<	31	35	33	12<
6300	49	47	40	42	43	40	36	41	40	30	15<	31<	28	29<	0<	25<	32	27<	6<
8000	49	46	39	42	40	37	37	41	40	31	9<	30	22<	28	-6<	19<	30	21<	0<
10000	43	41	31	35	33	31	30	35	34	29	3<	27	16<	22<	-12<	13<	24<	15<	-6<
OVERALL	67	64	64	67	64	64	65	69	66	66	64	65	69	65	66	63	72	67	65

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 01
AIRCRAFT CODE 704
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE 03

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (68%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	80.0	76.6	71.5	72.8	72.2	71.2	69.7	72.8	70.6	69.8	66.8	68.2	72.3	70.6	64.5	66.1	72.0	68.2	64.9
250	77.7	74.2	69.2	70.4	69.8	68.9	67.4	70.4	68.2	67.5	64.5	65.9	70.0	68.3	62.2	63.7	69.7	66.0	62.6
315	75.3	71.8	66.8	68.0	67.4	66.5	64.9	67.9	65.6	65.2	62.2	63.5	67.7	66.0	59.8	61.2	67.2	63.6	60.3
400	72.8	69.2	64.3	65.5	64.8	64.0	62.4	65.3	63.0	62.6	59.7	60.9	65.3	63.6	57.4	58.6	64.8	61.2	57.9
500	70.2	66.5	61.6	62.8	62.1	61.3	59.7	62.6	60.2	60.0	57.1	58.2	62.8	61.1	54.8	55.8	62.2	58.5	55.2
630	67.4	63.6	58.7	59.9	59.3	58.4	56.7	59.5	57.2	57.0	54.3	55.2	60.1	58.3	51.9	52.7	59.2	55.7	52.4
800	64.5	60.5	55.6	56.8	56.2	55.3	53.5	56.2	53.9	54.0	51.2	51.9	57.2	55.4	48.9	49.3	56.0	52.4	49.2
1000	61.3	57.2	52.2	53.3	52.9	51.9	50.0	52.6	50.3	50.5	47.8	48.4	54.1	52.3	45.7	45.7	52.3	48.9	46.2
1250	57.7	53.6	48.3	49.5	49.1	48.1	45.9	48.7	46.4	46.8	44.0	44.5	50.4	48.7	42.2	41.6	48.2	45.2	42.6
1600	53.9	49.7	43.9	44.9	44.5	43.6	41.4	44.2	41.6	42.3	39.6	39.9	46.3	44.6	38.3	37.1	43.9	40.5	38.4
2000	49.6	44.8	38.9	39.9	39.3	38.3	36.2	39.4	36.5	37.3	34.3	34.2	41.7	39.9	33.5	31.2	38.7	35.1	33.9
2500	44.1	38.9	32.3	32.6	33.1	31.0	27.5	31.8	27.9	30.0	26.9	26.8	35.6	34.0	24.9	23.5	31.4	27.1	25.9
3150	37.4	31.8	23.3	22.9	24.4	21.0	16.4	20.9	15.5	21.3	18.2	17.6	28.0	27.2	16.1	10.6	19.8	16.5	15.8
4000	28.7	20.4	7.3	10.0	12.5	8.1	5.4	6.9	3.0	6.7	9.4	8.4	18.3	16.8	7.2		8.2	5.8	5.7
5000	18.2	9.4			.6						.6		8.6	6.4					
6300	7.7																		
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (68%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 01
AIRCRAFT CODE 704
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	82.8	78.2	72.1	74.5	73.9	72.8	70.8	72.8	70.6	69.8	66.8	68.2	72.3	70.5	64.5	66.1	72.6	69.8	64.9
250	80.5	75.8	69.7	72.1	71.6	70.5	68.5	70.4	68.2	67.5	64.5	65.9	70.0	68.3	62.2	63.7	70.2	67.6	62.6
315	78.1	73.4	67.3	69.7	69.1	68.0	66.0	67.9	65.6	65.2	62.2	63.5	67.7	66.0	59.8	61.2	67.8	65.2	60.3
400	75.6	70.8	64.8	67.2	66.6	65.6	63.5	65.3	63.0	62.6	59.7	60.9	65.3	63.6	57.4	58.6	65.4	62.8	57.9
500	73.0	68.1	62.1	64.5	63.9	62.8	60.8	62.6	60.2	60.0	57.1	58.2	62.8	61.1	54.8	55.8	62.8	60.1	55.2
630	70.2	65.2	59.3	61.6	61.1	59.9	57.8	59.5	57.2	57.0	54.3	55.2	60.1	58.3	51.9	52.7	59.8	57.3	52.4
800	67.2	62.1	56.1	58.5	57.9	56.8	54.6	56.2	53.9	54.0	51.2	51.9	57.2	55.4	48.3	49.3	56.6	54.0	49.2
1000	64.0	58.8	52.7	55.0	54.6	53.4	51.1	52.6	50.3	50.5	47.8	48.4	54.1	52.3	45.7	45.7	52.9	50.5	46.2
1250	60.5	55.2	48.8	51.2	50.8	49.6	47.0	48.7	46.4	46.8	44.0	44.5	50.4	48.7	42.2	41.6	48.7	46.8	42.6
1600	56.6	51.2	44.5	46.6	46.2	45.1	42.5	44.2	41.6	42.3	39.6	39.9	46.3	44.5	38.3	37.1	44.5	42.1	38.4
2000	52.3	46.4	39.4	41.6	41.0	39.8	37.3	39.4	36.5	37.3	34.3	34.2	41.7	39.9	33.5	31.2	39.3	36.7	33.9
2500	46.9	40.5	32.9	34.3	34.9	32.6	28.6	31.8	27.9	30.0	26.9	26.8	35.6	34.0	24.9	23.5	32.0	28.7	25.9
3150	40.1	33.4	23.9	24.6	26.1	22.6	17.5	20.9	15.5	21.3	18.2	17.6	28.0	27.2	16.1	10.6	20.4	18.1	15.8
4000	30.9	21.7	7.7	11.3	13.9	9.3	6.3	6.9	3.0	6.7	9.4	6.4	18.3	16.8	7.2		8.7	7.1	5.7
5000	19.8	10.4			1.6						.6		8.6	6.4					
6300	8.8																		
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 01
AIRCRAFT CODE 704
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE F3

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (66%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	64.9	61.6	56.9	57.4	57.5	56.3	55.1	57.6	55.6	56.2	54.7	54.9	59.0	57.9	53.6	52.3	57.4	54.7	53.6
250	62.6	59.3	54.7	55.2	55.3	54.1	52.9	55.4	53.6	54.1	52.6	52.8	56.9	55.8	51.6	50.2	55.4	52.7	51.6
315	60.3	57.0	52.5	53.0	53.0	51.9	50.8	53.2	51.4	52.0	50.5	50.7	54.7	53.7	49.5	48.1	53.3	50.6	49.5
400	57.8	54.5	50.2	50.6	50.7	49.6	48.5	50.9	49.1	49.8	48.4	48.5	52.5	51.5	47.4	46.0	51.1	48.4	47.4
500	55.3	52.0	47.9	48.2	48.3	47.3	46.3	48.6	46.7	47.6	46.2	46.3	50.3	49.3	45.3	43.7	48.9	46.2	45.2
630	52.7	49.4	45.5	45.7	45.8	44.8	43.9	46.1	44.3	45.2	43.9	44.0	48.0	47.0	43.0	41.4	46.5	43.9	43.0
800	49.9	46.6	42.9	43.2	43.3	42.3	41.4	43.6	41.7	42.8	41.5	41.5	45.6	44.6	40.7	39.0	44.1	41.5	40.6
1000	47.0	43.7	40.3	40.5	40.6	39.7	38.8	40.9	39.1	40.3	39.0	39.0	43.0	42.2	38.2	36.6	41.5	39.0	38.2
1250	43.9	40.6	37.5	37.6	37.8	36.9	36.0	38.1	36.3	37.6	36.4	36.3	40.3	39.6	35.6	33.9	38.8	36.4	35.6
1600	40.6	37.3	34.6	34.6	34.9	34.0	33.1	35.1	33.4	34.7	33.7	33.5	37.5	36.3	32.8	31.2	35.8	33.6	32.8
2000	37.0	33.9	31.6	31.4	31.9	30.9	30.1	32.0	30.4	31.7	30.8	30.5	34.5	34.0	30.0	28.3	32.6	30.7	29.9
2500	33.1	30.1	28.3	27.9	28.6	27.5	26.7	28.5	27.1	28.4	27.6	27.3	31.2	30.9	26.7	25.1	29.2	27.4	26.7
3150	28.9	26.0	24.7	24.1	25.0	23.9	23.1	24.8	23.5	24.9	24.1	23.8	27.7	27.6	23.2	21.5	25.5	23.9	23.2
4000	24.3	21.6	20.8	20.1	21.2	19.9	19.2	20.7	19.6	21.0	20.4	20.0	23.9	24.0	19.3	17.7	21.4	20.1	19.3
5000	19.3	16.9	16.6	15.8	17.1	15.6	14.9	16.3	15.4	16.8	16.2	16.0	19.8	20.0	15.0	13.4	17.2	15.9	15.0
6300	14.1	11.9	12.1	11.3	12.6	11.1	10.4	11.8	10.9	12.3	11.8	11.6	15.3	15.7	10.6	9.0	12.7	11.5	10.6
8000	9.2	7.6	8.0	7.1	8.1	6.9	6.2	8.0	7.0	8.0	7.5	7.5	10.8	11.3	7.0	5.2	8.8	7.5	6.9
10000	4.5	3.2	3.7	2.7	3.2	2.5	2.0	4.2	2.8	3.4	2.9	3.1	6.1	6.5	3.2	1.2	4.8	3.3	3.0
12500								.2					1.3	1.4			.8		
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (68%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 01
AIRCRAFT CODE 704
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE G3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.7	63.2	57.5	59.1	59.2	57.9	56.2	57.6	55.8	56.2	54.7	54.9	59.0	57.9	53.6	52.3	58.0	56.3	53.6
250	65.4	60.9	55.3	56.9	57.0	55.7	54.0	55.4	53.6	54.1	52.6	52.8	56.9	55.8	51.6	50.2	55.9	54.3	51.6
315	63.0	58.6	53.1	54.6	54.7	53.5	51.9	53.2	51.4	52.0	50.5	50.7	54.7	53.7	49.5	48.1	53.9	52.2	49.5
400	60.6	56.1	50.8	52.3	52.4	51.2	49.6	50.9	49.1	49.8	48.4	48.5	52.5	51.5	47.4	46.0	51.7	50.0	47.4
500	58.1	53.6	48.5	49.9	50.0	48.8	47.4	48.6	46.7	47.6	46.2	46.3	50.3	49.3	45.3	43.7	49.5	47.8	45.2
630	55.4	51.0	46.0	47.4	47.6	46.4	45.0	46.1	44.3	45.2	43.9	44.0	48.0	47.0	43.0	41.4	47.1	45.5	43.0
800	52.7	48.2	43.5	44.8	45.0	43.9	42.5	43.6	41.7	42.8	41.5	41.5	45.6	44.5	40.7	39.0	44.7	43.1	40.6
1000	49.8	45.3	40.9	42.2	42.4	41.2	39.9	40.9	39.1	40.3	39.0	39.0	43.0	42.2	38.2	36.6	42.1	40.6	38.2
1250	46.7	42.2	38.1	39.3	39.6	38.4	37.1	38.1	36.3	37.6	36.4	36.3	40.3	39.5	35.6	33.9	39.3	38.0	35.6
1600	43.3	38.9	35.2	36.2	36.7	35.5	34.2	35.1	33.4	34.7	33.7	33.5	37.5	36.9	32.8	31.2	36.4	35.2	32.8
2000	39.8	35.4	32.1	33.1	33.6	32.5	31.2	32.0	30.4	31.7	30.8	30.5	34.5	34.0	30.0	28.3	33.2	32.3	29.9
2500	35.9	31.7	28.8	29.6	30.3	29.1	27.8	28.5	27.1	28.4	27.6	27.3	31.2	30.9	26.7	25.1	29.8	29.8	26.7
3150	31.6	27.6	25.3	25.8	26.8	25.5	24.2	24.8	23.5	24.9	24.1	23.8	27.7	27.6	23.2	21.5	26.0	25.5	23.2
4000	26.5	22.9	21.3	21.4	22.6	21.2	20.0	20.7	19.6	21.0	20.4	20.0	23.9	24.0	19.3	17.7	21.9	21.4	19.3
5000	20.9	17.8	16.9	16.8	18.1	16.6	15.6	16.3	15.4	16.8	16.2	16.0	19.8	20.0	15.0	13.4	17.6	16.9	15.0
6300	15.2	12.6	12.3	11.9	13.3	11.7	10.8	11.8	10.9	12.3	11.8	11.6	15.3	15.7	10.6	9.0	13.0	12.1	10.6
8000	9.8	7.9	8.1	7.4	8.4	7.2	6.5	8.0	7.0	8.0	7.5	7.5	10.8	11.3	7.0	5.2	8.9	7.8	6.9
10000	4.5	3.2	3.7	2.7	3.2	2.5	2.0	4.2	2.8	3.4	2.9	3.1	6.1	6.5	3.2	1.2	4.8	3.3	3.0
12500								.2					1.3	1.4			.8		
16000																			
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (68%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 01
AIRCRAFT CODE 704
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE J3

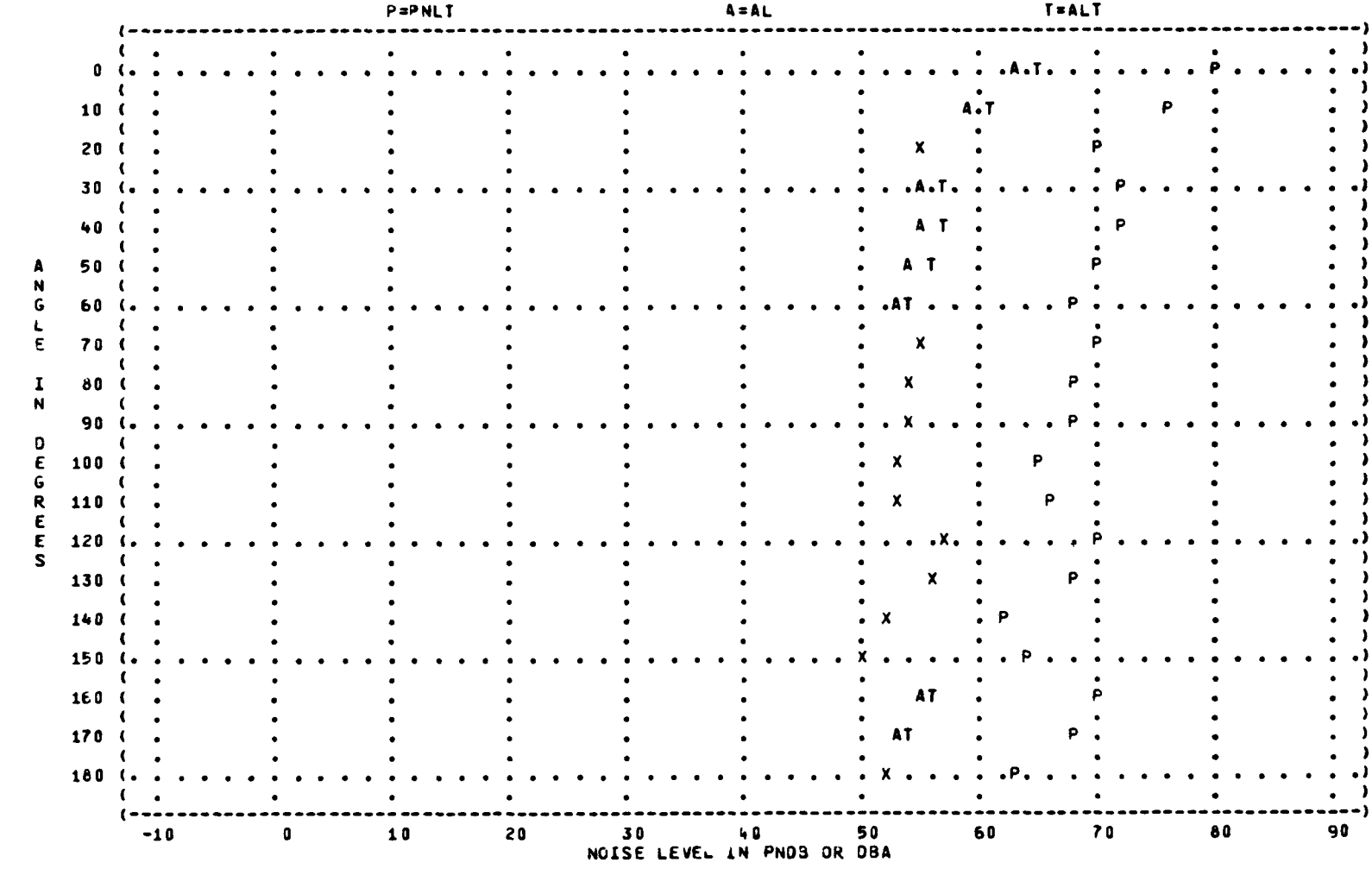


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 02

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

AIRCRAFT CODE 704
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE C4

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	61	60	59	58	59	62	63	66	64	62	60	63	63	63	66	66	70	69	70
63	59	59	59	59	60	61	61	63	62	62	62	63	65	62	61	61	63	62	62
80	59	57	57	59	59	60	62	60	61	60	61	62	76	61	60	61	62	60	60
100	61	61	60	62	62	61	59	66	64	64	64	62	65	64	64	59	63	61	56
125	60	59	58	60	58	59<	57<	62	61	61	61	60	63	63	61	59	62	59	54<
160	54	57<	56<	63	55<	56<	56	55	58	56	57	56	58	59	57	57	59	57	52<
200	53<	56<	54	57	53	53<	52<	53<	54<	57	56	53<	53	52	56	55	57	55	50<
250	52	54	54	51	47	50<	48	50	49	52	50	50	51	50	55	54	55	52	48
315	50	52	50	48	46<	47<	46<	47<	45	47	46	45	48	47	52	52	51	50	45
400	45	46	43	44	45<	45<	45<	44<	43<	44<	45<	43<	46	46	49	49	48	45	43<
500	47	47	45	45	44	42	44<	41	40<	41	44<	42<	46	44	48	47	47	43	41
630	45	45	45	44	43	40	42	41	38	40	42<	40<	44	43	49	46	48	44	40
800	42	42	44	43	42	40	41	40	38	41	41<	38	45	43	50	46	51	45	40
1000	44	43	45	45	45	42	42	41	39<	40	40<	38<	45	44	51	44	50	44	42
1250	49	47	45	48	47	46	43	43	40	40	39	38	45	42	50	44	48	42	40
1600	49	48	47	47	46	45	44	42	41	42	41	39	45	42	46	42	47	42	40
2000	44	44	44	43	40	38	41	41	39	40	38	38	42	41	44	41	45	41	37
2500	49	47	45	44	45	45	38	40	38	39	35	35	40	39	42	39	43	39	36
3150	48	45	41	40	43	41	37	39	36	36	34<	34<	38	37	42	39	42	38	34
4000	45	45	40	37	38	37	34	41	37	33	33<	32<	35<	35	41	37	40	36	33<
5000	49	48	42	42	43	42	36	45	41	35	31<	31<	32	34	38	37	38	36	31
6300	46	45	40	42	42	40	32	42	36	31	30	29<	30<	30	37	35	35	33	25<
8000	44	42	38	38	38	36	31	39	36	31	32	28	29	29	35	34	34	32	19<
10000	38	35	32	31	31	31	27	35	32	27	31	22<	23<	26	31	28	29	27	13<
OVERALL	68	68	67	69	68	68	69	71	70	70	69	70	77	70	71	70	73	71	71

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 02
AIRCRAFT CODE 704
OPERATION CODE 80119
PROFILE VERSION A
20 NOV 81
PAGE D4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	75.9	75.2	72.9	73.8	72.6	72.2	69.4	73.1	71.0	70.8	70.7	69.1	76.6	71.6	73.9	71.4	74.0	70.6	67.7
250	73.6	72.6	70.6	71.4	70.3	69.9	67.1	70.7	68.6	68.4	68.3	66.7	74.2	69.3	71.5	69.1	71.7	68.3	65.2
315	71.2	70.3	68.2	69.1	67.9	67.5	64.8	68.2	66.1	65.0	65.6	64.2	71.8	66.9	69.1	66.8	69.3	65.9	62.6
400	68.7	67.7	65.8	66.6	65.4	65.0	62.3	65.7	63.5	63.4	63.3	61.7	69.4	64.4	66.7	64.4	66.9	63.4	60.0
500	66.1	65.0	63.2	63.9	62.7	62.4	59.7	63.0	60.8	60.7	60.5	59.0	66.8	61.8	64.1	61.9	64.4	60.7	57.0
630	63.3	62.3	60.4	61.0	59.9	59.5	56.8	60.1	57.9	57.8	57.6	56.0	64.1	58.7	61.4	59.1	61.7	57.7	53.7
800	60.3	59.3	57.3	57.8	56.8	56.3	53.5	56.9	54.6	54.7	54.4	52.6	61.3	55.5	58.4	56.1	58.8	54.6	50.3
1000	57.0	55.9	53.9	54.4	53.4	53.0	50.1	53.1	50.6	50.7	50.4	48.6	58.3	51.8	55.2	52.9	55.5	51.3	46.9
1250	53.4	52.2	50.2	50.4	49.7	49.1	46.1	48.8	46.1	46.4	46.2	44.1	54.6	47.7	51.5	49.1	51.7	47.5	43.3
1600	49.3	47.9	45.8	46.1	45.2	44.6	41.8	43.7	41.0	41.8	41.2	39.4	50.3	43.1	47.7	45.1	48.0	43.4	38.9
2000	44.5	43.2	41.2	41.4	40.4	39.5	36.6	37.7	35.0	35.3	36.0	34.1	44.8	38.2	43.3	40.7	43.7	37.7	32.3
2500	38.7	37.4	34.2	35.5	33.2	31.9	28.4	29.2	25.2	29.1	28.5	23.7	38.0	31.8	38.4	34.9	38.7	31.0	24.3
3150	31.7	29.3	26.5	27.3	25.6	22.1	18.5	18.0	6.7	14.2	15.7	9.7	28.2	22.4	31.8	26.8	32.2	22.1	9.0
4000	20.4	18.4	14.2	15.5	13.2	7.7	8.6	6.8			2.9		13.0	12.9	24.0	15.5	24.8	7.2	
5000	9.0	7.5	2.0	3.7	.8									3.4	13.5	4.2	12.9		
6300															3.1		1.0		
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 02
AIRCRAFT CODE 704
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.0	76.3	72.9	74.6	73.8	73.8	69.4	74.4	72.3	71.3	71.2	69.1	76.6	71.6	74.5	71.4	74.0	70.6	67.7
250	74.7	73.9	70.6	72.3	71.5	71.4	67.1	72.0	69.9	68.9	68.9	66.7	74.2	69.3	72.1	69.1	71.7	68.3	65.2
315	72.3	71.4	68.2	69.9	69.1	69.1	64.8	69.5	67.4	66.5	66.4	64.2	71.8	66.9	69.7	66.8	69.3	65.9	62.6
400	69.8	68.8	65.8	67.4	66.6	66.6	62.3	67.0	64.8	63.9	63.9	61.7	69.4	64.4	67.3	64.4	66.9	63.4	60.0
500	67.2	66.1	63.2	64.7	64.0	63.9	59.7	64.3	62.1	61.3	61.1	59.0	66.8	61.8	64.7	61.9	64.4	60.7	57.0
630	64.4	63.3	60.4	61.9	61.2	61.1	56.8	61.4	59.2	58.4	58.2	56.0	64.1	58.7	62.0	59.1	61.7	57.7	53.7
800	61.4	60.3	57.3	58.6	58.1	57.9	53.5	58.2	55.9	55.2	55.0	52.6	61.3	55.5	59.0	56.1	58.8	54.6	50.3
1000	58.1	56.9	53.9	55.2	54.7	54.6	50.1	54.4	51.9	51.2	51.0	48.6	58.3	51.9	55.8	52.9	55.5	51.3	46.9
1250	54.5	53.3	50.2	51.2	50.9	50.7	46.1	50.1	47.4	46.9	46.8	44.1	54.6	47.7	52.2	49.1	51.7	47.5	43.3
1600	50.4	48.9	45.8	46.9	46.4	46.1	41.8	45.1	42.3	42.4	41.8	39.4	50.3	43.1	48.3	45.1	48.0	43.4	38.9
2000	45.6	44.3	41.2	42.2	41.6	41.1	36.6	39.0	36.3	36.9	36.5	34.1	44.8	36.2	43.9	40.7	43.7	37.7	32.3
2500	39.7	38.4	34.2	36.3	34.4	33.5	28.4	30.5	26.5	29.7	29.1	23.7	38.0	31.8	39.0	34.9	38.7	31.0	24.3
3150	32.8	30.4	26.5	28.1	26.8	23.7	18.5	19.3	8.1	14.8	16.3	9.7	28.2	22.4	32.5	26.8	32.2	22.1	9.0
4000	21.2	19.3	14.2	16.2	14.2	9.0	8.6	7.9			3.4		13.0	12.9	24.5	15.5	24.8	7.2	
5000	9.7	8.1	2.0	4.2	1.5									3.4	13.9	4.2	12.9		
6300															3.3		1.0		
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 02
AIRCRAFT CODE 704
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE F4

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	61.2	60.4	58.7	59.4	58.3	57.4	55.7	57.6	56.0	56.4	56.1	54.7	59.9	57.2	60.9	58.1	60.8	57.0	53.7
250	59.0	58.2	56.5	57.3	56.1	55.3	53.6	55.5	53.9	54.4	54.1	52.7	57.9	55.1	58.8	56.0	58.8	54.9	51.7
315	56.7	55.9	54.3	55.2	53.9	53.1	51.5	53.3	51.8	52.3	52.0	50.6	55.8	53.0	56.7	53.9	56.7	52.8	49.6
400	54.4	53.6	52.1	53.0	51.7	50.9	49.4	51.0	49.6	50.2	49.9	48.5	53.7	50.9	54.6	51.8	54.5	50.7	47.4
500	52.0	51.3	49.8	50.7	49.4	48.6	47.1	48.7	47.3	47.9	47.6	46.3	51.6	48.7	52.4	49.5	52.3	48.4	45.2
630	49.5	48.8	47.4	48.3	47.0	46.2	44.8	46.3	44.9	45.6	45.3	43.9	49.4	46.4	50.1	47.2	50.0	46.1	43.0
800	46.9	46.2	45.0	45.8	44.5	43.7	42.4	43.7	42.4	43.1	42.9	41.5	47.1	43.9	47.7	44.9	47.6	43.7	40.5
1000	44.2	43.6	42.4	43.2	42.0	41.1	40.0	41.0	39.7	40.4	40.3	38.9	44.8	41.4	45.3	42.4	45.1	41.2	38.2
1250	41.4	40.7	39.6	40.4	39.2	38.3	37.3	38.2	36.9	37.6	37.5	36.1	41.9	38.6	42.7	39.7	42.5	38.5	35.6
1600	38.4	37.7	36.8	37.5	36.4	35.4	34.5	35.1	33.8	34.6	34.5	33.2	38.9	35.8	40.0	37.0	39.8	35.7	32.9
2000	35.3	34.6	33.7	34.4	33.4	32.3	31.5	31.9	30.5	31.4	31.4	30.0	35.7	32.7	37.2	34.1	36.9	32.6	29.9
2500	32.0	31.3	30.5	31.2	30.2	28.9	28.2	28.4	26.9	27.8	28.0	26.5	32.1	29.4	34.1	30.8	33.8	29.4	26.7
3150	28.4	27.6	27.0	27.6	26.7	25.3	24.7	24.6	23.1	24.0	24.3	22.6	28.3	25.3	30.9	27.3	30.5	25.9	23.1
4000	24.5	23.7	23.2	23.7	23.0	21.3	20.8	20.5	18.9	19.8	20.2	18.5	24.2	21.3	27.3	23.5	26.9	22.0	19.3
5000	20.2	19.4	19.0	19.6	18.9	17.1	16.6	16.2	14.5	15.5	16.0	14.1	20.0	17.3	23.4	19.3	23.0	17.9	15.1
6300	15.7	14.8	14.5	15.1	14.4	12.6	12.1	11.7	10.0	11.0	11.6	9.6	15.5	13.4	19.1	14.9	18.7	13.5	10.7
8000	11.3	10.6	10.4	10.9	10.1	8.3	8.1	7.8	6.2	7.2	7.9	6.0	11.9	9.5	15.0	11.1	14.6	9.6	6.8
10000	6.7	6.2	5.9	6.5	5.5	3.9	3.9	3.8	2.3	3.3	4.0	2.3	8.2	5.4	10.5	7.0	10.3	5.5	2.8
12500	1.9	1.7	1.3	1.9	.7						.1		+.5	1.2	5.7	2.7	5.6	1.3	
16000													1.1		.7		.7		
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 02
AIRCRAFT CODE 704
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE G4

DISTANCE	ANGLE (DEGREES)																		
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	62.3	61.4	58.7	60.3	59.5	59.0	55.7	59.0	57.3	57.0	56.7	54.7	59.9	57.2	61.5	58.1	60.8	57.0	53.7
250	60.1	59.2	56.5	58.1	57.3	56.8	53.6	56.8	55.2	54.9	54.7	52.7	57.9	55.1	59.5	56.0	58.8	54.9	51.7
315	57.8	57.0	54.3	56.0	55.2	54.7	51.5	54.6	53.1	>2.8	52.6	50.6	55.8	53.0	>7.3	53.9	56.7	52.8	49.6
400	55.5	54.7	52.1	53.8	52.9	52.4	49.4	52.3	50.9	50.7	50.5	48.5	53.7	50.9	55.2	51.8	54.5	50.7	47.4
500	53.1	52.3	49.8	51.5	50.6	50.1	47.1	50.0	48.6	48.5	48.2	46.3	51.6	48.7	53.8	49.5	52.3	48.4	45.2
630	50.6	49.8	47.4	49.1	48.2	47.8	44.8	47.6	46.2	46.1	45.9	43.9	49.4	46.4	50.7	47.2	50.0	46.1	43.0
800	48.0	47.3	45.0	46.6	45.8	45.3	42.4	45.1	43.7	43.6	43.5	41.5	47.1	43.9	48.4	44.9	47.6	43.7	40.6
1000	45.3	44.6	42.4	44.0	43.2	42.7	40.0	42.4	41.1	41.0	40.9	38.9	44.8	41.4	45.9	42.4	45.1	41.2	38.2
1250	42.5	41.8	39.6	41.2	40.5	39.9	37.3	39.5	38.2	38.2	38.1	36.1	41.9	38.6	43.3	39.7	42.5	38.5	35.6
1600	39.5	38.8	36.8	38.3	37.6	37.0	34.5	36.4	35.1	35.1	35.1	33.2	38.9	35.8	40.6	37.0	39.8	35.7	32.9
2000	36.4	35.7	33.7	35.3	34.6	33.9	31.5	33.2	31.8	31.9	32.0	30.0	35.7	32.7	37.8	34.1	36.9	32.6	29.9
2500	33.1	32.3	30.5	32.0	31.4	30.5	28.2	29.7	28.3	28.4	28.6	26.5	32.1	29.4	34.8	30.8	33.8	29.4	26.7
3150	29.5	28.7	27.0	28.4	28.0	26.9	24.7	25.9	24.4	24.5	24.9	22.6	28.3	25.8	31.5	27.3	30.5	25.9	23.1
4000	25.4	24.5	23.2	24.4	23.9	22.6	20.8	21.5	19.9	20.3	20.7	18.5	24.2	21.9	27.8	23.5	26.9	22.0	19.3
5000	20.9	20.0	19.0	20.1	19.6	18.1	16.6	17.0	15.3	15.9	16.4	14.1	20.0	17.8	23.7	19.3	23.0	17.9	15.1
6300	16.1	15.2	14.5	15.5	14.9	13.2	12.1	12.2	10.5	11.2	11.8	9.6	15.5	13.4	19.3	14.9	18.7	13.5	10.7
8000	11.5	10.8	10.4	11.1	10.4	8.7	8.1	8.0	6.4	7.3	8.0	6.0	11.9	9.5	15.1	11.1	14.6	9.6	6.8
10000	6.7	6.2	5.9	6.5	5.5	3.9	3.9	3.8	2.3	3.3	4.0	2.3	8.2	5.4	10.5	7.0	10.3	5.5	2.8
12500	1.9	1.7	1.3	1.9	.7						.1		4.5	1.2	5.7	2.7	5.6	1.3	
16000													1.1		.7		.7		
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 02
AIRCRAFT CODE 704
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE J4

P=PNLT A=AL T=ALT

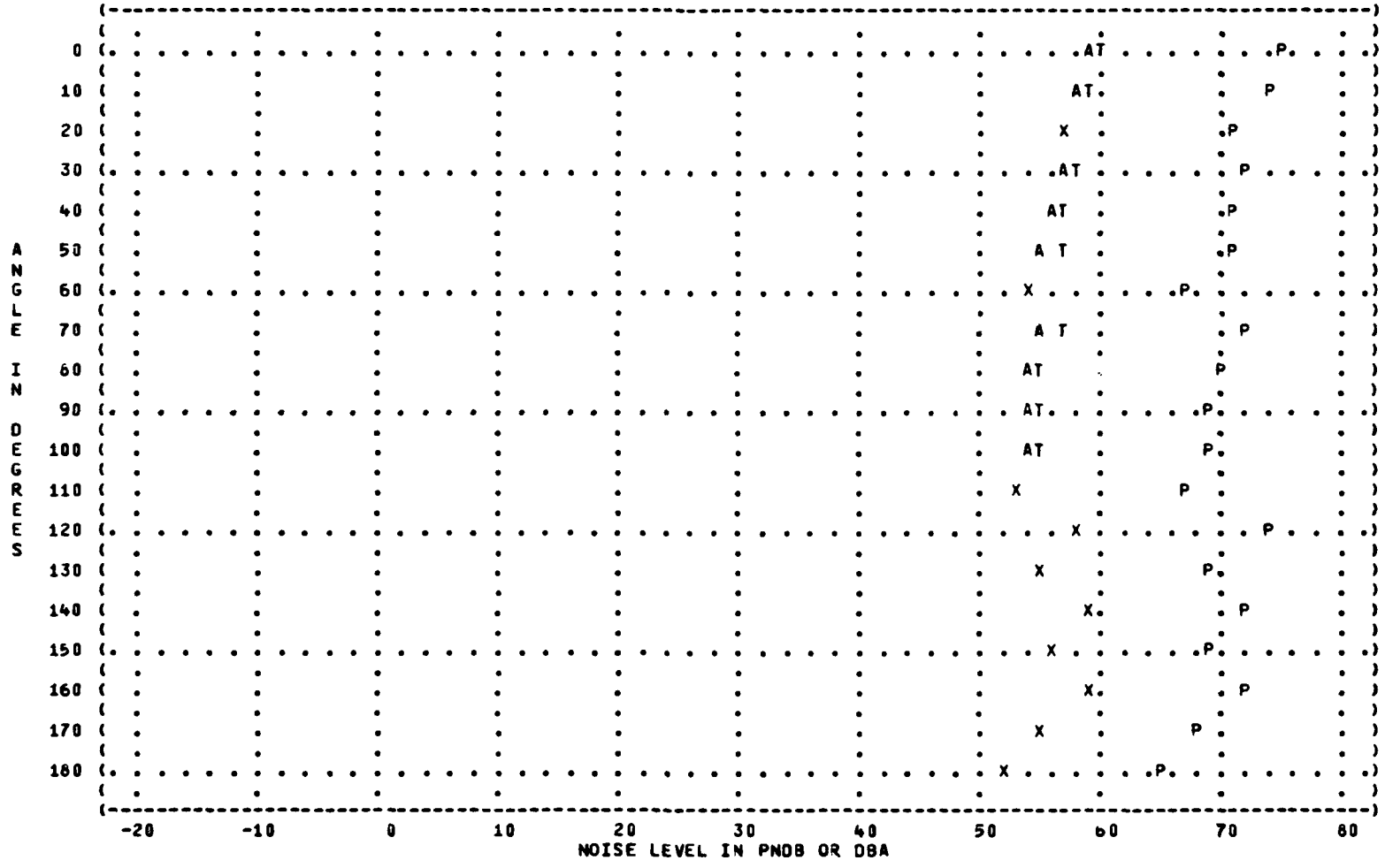


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 03
AIRCRAFT CODE 704
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE C2

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	70	69	71	70	73	74	74	75	74	74	73	73	75	76	80	81	81	80	82
63	66	66	66	69	68	68	69	72	70	71	70	73	73	70	69	74	75	74	75
80	68	65	66	67	69	67	68	69	69	69	70	71	71	70	68	69	70	70	69
100	70	67	68	66	69	68	66	67	69	69	71	73	74	72	70	68	68	68	71
125	70	67	65	64	65	65	63	65	66	68	70	68	71	68	68	68	69	67	64
160	66	63	63	63	63	61	59	60	63	65	66	65	68	65	65	67	69	65	60
200	64	63	62	58	60	60	57	58	59	62	64	64	69	65	67	66	68	68	62
250	61	63	62	56	58	56	58	58	59	63	64	67	69	67	68	71	68	68	61
315	63	61	64	58	53	51	53	53	58	57	60	63	63	61	62	66	66	63	55
400	62	61	63	59	57	55	52	56	59	53	56	61	61	59	59	63	67	60	52
500	69	68	68	64	66	66	61	66	61	54	53	57	60	58	58	63	68	60	51
630	67	66	65	64	66	65	61	62	61	55	56	58	58	56	57	62	66	62	52
800	64	62	63	62	63	62	62	59	59	57	58	59	60	57	58	64	65	63	53
1000	64	63	61	60	63	62	58	57	56	53	55	55	58	54	55	60	62	63	52
1250	67	66	65	63	64	64	60	59	55	54	56	57	59	54	56	60	60	63	53
1600	65	64	63	61	62	61	58	55	55	52	54	56	58	54	55	56	62	61	49
2000	60	61	60	58	57	55	55	53	54	51	54	54	55	51	52	53	58	62	48
2500	56	56	55	54	55	53	51	48	48	47	49	50	51	46	49	51	54	56	46
3150	55	55	50	50	49	50	49	47	47	45	47	47	48	47	49	50	57	54	40
4000	51	52	47	47	47	48	46	46	47	44	45	44	45	44	47	47	48	50	43
5000	52	50	47	47	45	47	45	45	45	44	44	43	45	44	46	46	49	48	43
6300	51	51	48	46	46	46	44	44	45	42	42	41	43	42	44	44	47	45	41
8000	50	50	46	46	45	44	44	45	46	43	42	41	42	42	44	44	44	43	40
10000	46	47	42	41	40	40	40	41	42	39	38	37	38	38	40	39	39	39	36
OVERALL	79	78	78	77	78	78	77	79	78	78	79	80	81	80	82	83	84	83	83

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 03
AIRCRAFT CODE 704
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE 02

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	88.1	87.3	86.3	84.4	85.2	84.4	82.4	82.9	82.0	80.6	82.0	83.4	83.4	82.9	83.7	86.2	87.8	87.4	82.1
250	85.9	85.1	84.1	82.2	83.0	82.2	80.1	80.6	79.8	78.2	79.6	81.1	83.1	80.6	81.5	84.0	85.6	85.2	79.5
315	83.6	82.8	81.8	79.9	80.7	79.9	77.8	78.3	77.4	75.8	77.3	78.8	80.8	76.3	79.1	81.7	83.3	82.9	76.9
400	81.3	80.5	79.5	77.6	78.3	77.6	75.5	76.0	75.1	73.5	74.9	76.5	78.5	76.0	76.8	79.3	81.0	80.5	74.3
500	78.8	78.1	77.1	75.2	76.0	75.2	73.1	73.7	72.6	71.0	72.4	74.0	76.0	73.6	74.3	76.9	78.7	78.1	71.6
630	76.3	75.5	74.5	72.7	73.5	72.7	70.6	71.2	70.1	68.3	69.7	71.4	73.4	70.9	71.7	74.3	76.2	75.6	68.9
800	73.7	72.9	72.1	70.1	70.9	70.1	67.9	68.7	67.5	65.5	67.0	68.6	70.6	68.1	68.8	71.5	73.7	73.0	66.1
1000	71.0	70.2	69.4	67.3	68.1	67.3	65.1	66.0	64.7	62.4	64.1	65.5	67.6	65.0	65.8	68.6	71.1	70.2	63.1
1250	68.0	67.2	66.5	64.3	65.2	64.3	62.0	63.1	61.7	59.2	61.0	62.7	64.4	61.7	62.5	65.4	68.3	67.2	59.8
1600	64.8	64.2	63.6	61.1	62.2	61.3	58.7	60.0	58.5	55.4	57.3	59.4	60.8	58.0	58.9	62.0	65.3	63.9	56.0
2000	61.6	61.0	60.4	57.7	59.0	58.1	55.1	56.7	55.0	51.4	53.2	55.9	57.3	54.4	55.2	58.6	62.0	60.2	51.3
2500	58.1	57.4	56.9	54.0	55.3	54.5	51.1	52.9	51.0	47.0	48.6	51.3	52.7	49.7	50.4	54.6	58.4	56.1	45.5
3150	53.9	53.3	52.6	49.5	51.0	50.1	45.7	48.0	45.7	41.6	43.5	45.9	47.7	44.4	45.0	50.1	53.9	51.3	38.9
4000	48.9	48.3	47.7	44.6	45.9	45.2	41.0	42.7	40.2	35.4	37.4	39.8	42.2	38.0	39.0	44.9	48.9	45.0	31.5
5000	43.3	42.8	42.2	39.0	40.6	39.9	35.7	37.3	34.2	28.1	30.3	33.8	35.6	31.5	32.3	39.2	43.1	39.4	21.8
6300	37.3	36.8	36.1	33.1	34.6	34.1	29.2	31.1	27.4	18.4	20.1	25.4	27.2	21.7	23.3	32.6	36.8	32.8	8.3
8000	32.3	31.2	30.9	26.6	29.3	28.7	21.7	24.9	18.4	7.7	9.3	15.0	18.9	11.7	12.9	26.1	31.6	25.0	
10000	25.7	25.0	22.8	17.3	21.6	19.5	12.5	17.7	10.6			4.6	7.2	1.7	2.5	16.4	24.9	15.5	
12500	16.2	15.8	14.9	6.9	12.6	11.3	3.3	9.5	2.7							6.7	15.9	6.0	
16000	6.9	6.6	6.9		3.5	3.0		1.4									6.8		
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 03
AIRCRAFT CODE 704
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE E2

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	89.4	88.9	87.5	84.4	86.6	85.8	84.0	84.7	82.0	81.1	82.0	84.0	86.0	83.6	84.3	87.3	89.6	88.7	82.8
250	87.2	86.6	85.3	82.2	84.3	83.6	81.8	82.5	79.8	78.7	79.8	81.6	83.7	81.3	82.0	85.0	87.4	86.4	80.2
315	84.9	84.4	83.1	79.9	82.0	81.3	79.5	80.2	77.4	76.3	77.3	79.4	81.4	79.0	79.7	82.7	85.2	84.1	77.6
400	82.6	82.0	80.7	77.6	79.7	79.0	77.1	77.9	75.1	74.0	74.9	77.0	79.1	76.7	77.3	80.4	82.9	81.8	75.0
500	80.2	79.6	78.3	75.2	77.3	76.6	74.7	75.5	72.6	71.5	72.4	74.6	76.6	74.2	74.9	77.9	80.5	79.4	72.4
630	77.7	77.1	75.9	72.7	74.9	74.1	72.2	73.1	70.1	68.8	69.7	72.0	74.0	71.6	72.2	75.3	78.1	76.8	69.6
800	75.0	74.5	73.3	70.1	72.3	71.5	69.6	70.6	67.5	66.0	67.0	69.2	71.2	68.8	69.4	72.5	75.6	74.2	66.8
1000	72.3	71.7	70.6	67.3	69.5	68.7	66.7	67.9	64.7	62.9	64.1	66.2	68.2	65.7	66.4	69.6	73.0	71.4	63.8
1250	69.3	68.8	67.7	64.3	66.6	65.8	63.6	65.0	61.7	59.7	61.0	63.2	65.0	62.4	63.1	66.4	70.2	68.4	60.5
1600	66.2	65.7	64.8	61.1	63.6	62.7	60.3	61.9	58.5	55.9	57.3	59.9	61.4	58.7	59.4	63.1	67.2	65.1	56.8
2000	63.0	62.6	61.0	57.7	60.4	59.5	56.7	58.6	55.0	51.9	53.2	56.4	57.9	55.1	55.7	59.6	63.9	61.4	52.1
2500	59.4	58.9	58.1	54.0	56.7	55.9	52.8	54.8	51.0	47.5	48.6	51.8	53.3	50.3	50.9	55.6	60.2	57.4	46.2
3150	55.2	54.8	53.8	49.5	52.4	51.6	47.3	49.9	45.7	42.1	43.5	46.5	48.3	45.1	45.5	51.1	55.8	52.6	39.7
4000	49.9	49.6	48.7	44.6	47.8	46.3	42.3	44.3	40.2	35.8	37.4	40.2	42.7	38.5	39.5	45.7	50.4	46.0	32.1
5000	44.1	43.7	43.0	39.0	41.4	40.8	36.6	38.4	34.2	28.4	30.3	34.1	35.9	31.9	32.6	39.8	44.2	40.1	22.3
6300	37.9	37.4	36.6	33.1	35.1	34.6	29.9	31.8	27.4	18.6	20.1	25.6	27.4	22.0	23.5	33.0	37.5	33.3	8.6
8000	32.6	31.5	31.1	26.6	29.6	29.0	22.1	25.3	18.4	7.8	9.3	15.1	19.0	11.8	13.0	26.4	31.9	25.3	
10000	25.7	25.0	22.8	17.3	21.6	19.5	12.5	17.7	10.0			4.6	7.2	1.7	2.5	16.4	24.9	15.5	
12500	16.2	15.8	14.9	6.9	12.6	11.3	3.3	9.5	2.7							6.7	15.9	6.0	
16000	6.9	6.6	6.9		3.5	3.0		1.4									6.8		
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 03
AIRCRAFT CODE 704
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	76.0	75.4	74.6	72.6	73.9	73.2	70.2	70.1	69.1	66.6	68.1	69.7	71.3	68.5	69.2	72.7	75.0	73.9	65.1
250	73.9	73.3	72.5	70.5	71.8	71.1	68.1	68.0	67.0	64.6	66.0	67.6	69.3	66.4	67.2	70.6	72.9	71.8	63.0
315	71.8	71.1	70.4	68.4	69.7	69.0	66.0	65.9	64.9	62.5	63.9	65.5	67.2	64.4	65.1	68.6	70.9	69.7	60.9
400	69.7	69.0	68.3	66.3	67.6	66.9	63.8	63.8	62.7	60.3	61.8	63.4	65.1	62.3	63.0	66.5	68.7	67.5	58.8
500	67.5	66.8	66.1	64.1	65.4	64.7	61.6	61.7	60.6	58.1	59.6	61.2	62.9	60.1	60.8	64.3	66.6	65.3	56.6
630	65.3	64.6	63.9	61.8	63.2	62.5	59.4	59.5	58.3	55.8	57.2	58.9	60.6	57.8	58.4	62.1	64.3	63.0	54.3
800	63.0	62.3	61.5	59.6	60.9	60.3	57.1	57.2	56.0	53.4	54.9	56.6	58.2	55.4	56.1	59.7	62.1	60.7	52.0
1000	60.6	59.9	59.3	57.2	58.6	57.9	54.8	54.9	53.7	51.0	52.4	54.2	55.7	52.9	53.6	57.4	59.7	58.3	49.5
1250	58.2	57.5	56.9	54.8	56.2	55.5	52.3	52.6	51.2	48.3	49.7	51.6	53.1	50.3	51.0	54.8	57.3	55.7	47.0
1600	55.7	54.9	54.3	52.2	53.7	53.0	49.8	50.1	48.7	45.6	46.9	48.8	50.3	47.5	48.2	52.2	54.8	53.0	44.2
2000	53.0	52.3	51.7	49.6	51.1	50.4	47.1	47.6	46.1	42.7	44.0	46.0	47.5	44.7	45.3	49.5	52.2	50.2	41.2
2500	50.2	49.5	48.8	46.8	48.3	47.7	44.3	44.9	43.2	39.6	40.9	42.8	44.3	41.5	42.1	46.5	49.3	47.2	38.0
3150	47.0	46.3	45.6	43.6	45.2	44.6	41.2	41.7	40.0	36.3	37.5	39.4	40.9	38.0	38.7	43.2	46.0	43.9	34.5
4000	43.5	42.7	42.0	40.1	41.7	41.1	37.8	38.2	36.5	32.7	33.8	35.7	37.1	34.2	34.9	39.7	42.4	40.3	30.7
5000	39.4	38.6	38.0	36.1	37.8	37.2	33.8	34.1	32.4	28.7	29.8	31.5	33.1	30.0	30.8	35.7	38.3	36.4	26.5
6300	35.1	34.3	33.6	31.8	33.5	32.9	29.5	29.8	28.1	24.4	25.4	27.1	28.7	25.6	26.4	31.4	34.0	32.0	22.1
8000	31.0	30.2	29.6	27.7	29.5	28.9	25.5	26.1	24.2	20.4	21.4	23.2	24.7	21.8	22.5	27.5	30.2	27.8	18.3
10000	26.7	25.9	25.3	23.3	25.1	24.5	21.1	22.0	20.1	16.1	17.0	18.9	20.4	17.7	18.4	23.3	26.2	23.2	14.3
12500	21.9	21.2	20.7	18.6	20.4	19.8	16.3	17.6	15.0	11.6	12.4	14.4	15.9	13.4	14.0	18.8	21.7	18.2	10.3
16000	16.8	16.2	15.7	13.4	15.2	14.6	11.1	12.8	10.7	6.8	7.6	9.7	11.2	8.9	9.5	13.9	16.9	13.0	6.5
20000	11.2	10.6	10.2	7.8	9.5	8.9	5.4	7.5	5.4	2.1	2.8	4.8	6.4	4.4	5.0	8.8	11.7	7.5	3.0
25000	5.1	4.5	4.2	1.7	3.3	2.7		1.9				.2	1.8		.7	3.6	6.2	2.3	

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 03
AIRCRAFT CODE 704
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE G2

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.4	76.9	75.8	72.6	75.3	74.6	71.8	72.0	69.1	67.1	68.1	70.2	71.9	69.2	69.8	73.7	76.9	75.2	65.8
250	75.3	74.8	73.7	70.5	73.2	72.6	69.7	69.9	67.0	65.1	66.0	68.1	69.9	67.1	67.7	71.7	74.8	73.1	63.7
315	73.2	72.7	71.6	68.4	71.1	70.5	67.6	67.8	64.9	63.0	63.9	66.1	67.8	65.1	65.6	69.6	72.7	70.9	61.6
400	71.0	70.5	69.5	66.3	69.9	68.3	65.5	65.7	62.7	60.8	61.8	63.9	65.7	62.9	63.5	67.5	70.6	68.8	59.5
500	68.8	68.4	67.3	64.1	66.8	66.1	63.3	63.5	60.6	58.6	59.6	61.8	63.5	60.8	61.3	65.3	68.4	66.6	57.3
630	66.6	66.1	65.1	61.8	64.6	63.9	61.0	61.4	58.3	56.3	57.2	59.5	61.2	58.2	59.0	63.1	66.2	64.3	55.0
800	64.3	63.8	62.8	59.6	62.3	61.7	58.7	59.1	56.0	53.9	54.9	57.2	58.6	56.1	56.6	60.8	63.9	61.3	52.7
1000	62.0	61.5	60.5	57.2	60.0	59.3	56.4	56.8	53.7	51.5	52.4	54.7	56.3	53.6	54.1	58.4	61.6	59.5	50.3
1250	59.5	59.0	58.1	54.8	57.6	56.9	53.9	54.5	51.2	48.8	49.7	52.1	53.7	51.0	51.5	55.9	59.2	56.9	47.7
1600	57.0	56.5	55.5	52.2	55.1	54.5	51.4	52.0	48.7	46.1	46.9	49.4	50.9	48.2	48.7	53.3	56.6	54.2	44.9
2000	54.4	53.8	52.9	49.6	52.5	51.9	48.8	49.5	46.1	43.2	44.0	46.5	48.1	45.3	45.8	50.5	54.0	51.4	42.0
2500	51.5	51.0	50.1	46.8	49.7	49.1	45.9	46.7	43.2	40.1	40.9	43.4	44.9	42.1	42.7	47.5	51.1	48.4	38.7
3150	48.3	47.8	46.9	43.6	46.6	46.0	42.9	43.6	40.0	36.8	37.5	39.9	41.5	38.7	39.2	44.3	47.9	45.2	35.2
4000	44.5	43.9	43.0	40.1	42.8	42.3	39.1	39.7	36.5	33.1	33.8	36.1	37.6	34.7	35.3	40.5	43.9	41.3	31.2
5000	40.2	39.6	38.7	36.1	38.6	38.0	34.8	35.3	32.4	29.0	29.8	31.9	33.4	30.4	31.1	36.3	39.5	37.1	27.0
6300	35.6	34.9	34.1	31.8	34.0	33.4	30.2	30.6	28.1	24.6	25.4	27.3	28.9	25.9	26.6	31.8	34.7	32.5	22.4
8000	31.3	30.6	29.9	27.7	29.8	29.2	25.8	26.5	24.2	20.5	21.4	23.3	24.8	22.0	22.6	27.7	30.6	28.0	18.5
10000	26.7	25.9	25.3	23.3	25.1	24.5	21.1	22.0	20.1	16.1	17.0	18.9	20.4	17.7	18.4	23.3	26.2	23.2	14.3
12500	21.9	21.2	20.7	18.6	20.4	19.8	16.3	17.6	15.6	11.6	12.4	14.4	15.9	13.4	14.0	18.8	21.7	18.2	10.3
16000	16.8	16.2	15.7	13.4	15.2	14.6	11.1	12.8	10.7	6.8	7.6	9.7	11.2	8.9	9.5	13.9	16.9	13.0	6.5
20000	11.2	10.6	10.2	7.8	9.5	8.9	5.4	7.5	5.4	2.1	2.8	4.8	6.4	4.4	5.0	8.8	11.7	7.5	3.0
25000	5.1	4.5	4.2	1.7	3.3	2.7		1.9				.2	1.8		.7	3.6	6.2	2.3	

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE DISTANCE = 250 FEET		IDENTIFICATION: OMEGA 8.2 TEST BF-704-001 RUN 03 AIRCRAFT CODE 704 OPERATION CODE 00104 PROFILE VERSION A 20 NOV 81 PAGE J2
NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE	OPERATION: MILITARY POWER (92%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 59 F BAR PRESS =29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 DB

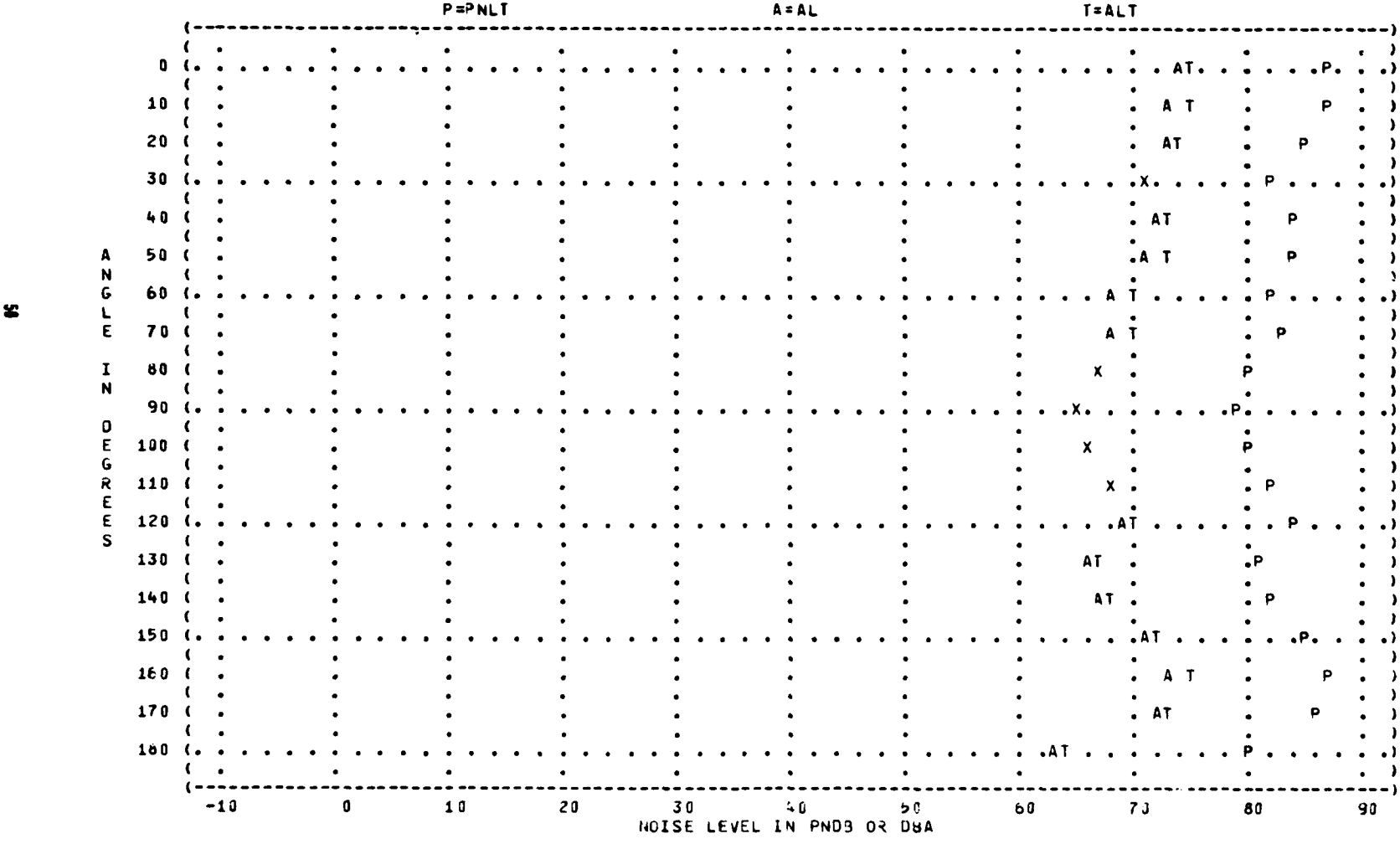


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 04
AIRCRAFT CODE 704
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE C1

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	80	79	81	81	83	84	84	87	84	83	84	88	88	91	93	95	96	93	96
63	78	76	75	79	79	79	81	83	82	81	81	83	81	85	87	88	91	88	91
80	77	74	74	77	77	76	76	80	80	81	82	82	80	81	80	84	83	83	81
100	80	77	76	76	76	75	75	76	75	80	83	83	82	81	82	81	80	81	78
125	79	77	74	75	74	74	71	74	74	77	79	79	79	77	80	79	79	81	76
160	74	71	69	70	69	68	67	69	71	74	75	74	74	74	76	77	77	77	73
200	71	71	65	67	67	67	65	67	67	71	74	74	75	73	76	73	74	75	71
250	69	71	65	68	66	64	64	66	66	71	73	76	75	73	78	74	74	73	68
315	72	69	65	67	63	59	60	63	63	68	68	71	71	69	72	71	70	69	70
400	70	70	66	67	64	61	58	64	61	64	65	69	70	68	69	68	66	65	68
500	70	70	66	69	68	68	62	67	63	63	64	65	71	68	70	71	67	64	72
630	69	69	67	67	69	70	63	67	65	64	66	67	67	66	70	71	65	64	72
800	70	68	67	68	68	69	66	66	64	65	66	68	68	66	70	71	67	64	72
1000	69	68	67	68	68	68	63	65	62	63	63	67	66	64	69	67	64	64	66
1250	74	73	71	71	71	71	66	66	63	64	63	69	67	63	70	68	65	63	67
1600	72	70	69	69	68	67	65	64	62	61	61	67	65	61	67	64	61	61	61
2000	67	67	66	66	64	62	61	62	61	59	59	64	63	58	62	62	59	58	58
2500	60	61	60	62	60	59	55	56	59	54	55	59	58	55	57	58	56	55	55
3150	57	58	55	56	55	55	53	60	54	53	53	56	55	54	55	56	54	54	54
4000	54	56	52	53	53	53	51	53	54	52	52	54	53	52	53	54	52	52	53
5000	54	55	53	53	53	53	52	54	54	52	51	52	52	51	52	53	52	52	53
6300	54	54	52	53	52	51	50	52	53	51	50	50	50	50	50	52	50	51	54
8000	52	53	50	51	50	49	49	52	52	50	50	49	50	49	50	51	50	50	51
10000	48	49	46	46	45	45	46	49	49	47	46	46	47	46	46	48	47	47	48
OVERALL	87	86	85	86	86	87	87	90	88	88	90	92	91	93	95	97	96	95	98

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 04
AIRCRAFT CODE 704
OPERATION CODE 80103
PROFILE VERSION A
20 NOV 81
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	94.7	93.8	91.7	92.5	91.8	91.3	89.0	92.2	90.0	91.2	92.8	94.4	94.0	94.3	96.8	97.6	97.2	95.7	97.3
250	92.5	91.6	89.5	90.3	89.6	89.0	86.8	89.6	87.5	88.9	90.6	92.2	91.5	92.1	94.7	95.4	95.1	93.6	95.2
315	90.2	89.3	87.2	88.0	87.3	86.7	84.4	87.1	85.0	86.5	88.4	90.0	89.3	89.5	92.6	93.3	92.9	91.4	93.0
400	87.9	87.0	84.8	85.7	85.0	84.4	82.1	84.5	82.6	84.1	86.1	87.7	86.8	87.0	90.0	91.1	90.8	88.9	90.9
500	85.5	84.6	82.4	83.3	82.6	82.0	79.6	81.9	80.0	81.6	83.6	85.2	84.4	84.3	87.4	88.5	88.3	86.2	88.5
630	83.0	82.1	80.0	80.8	80.1	79.5	77.1	79.2	77.4	79.0	81.0	82.8	81.8	81.9	84.7	85.8	85.6	83.5	85.8
800	80.5	79.5	77.4	78.2	77.5	76.9	74.5	76.4	74.7	75.2	78.2	79.8	79.0	78.9	81.9	83.0	82.7	80.6	83.0
1000	77.8	76.7	74.7	75.5	74.8	74.2	71.7	73.5	71.9	73.1	75.1	76.8	76.0	75.3	79.0	80.1	79.8	77.7	80.1
1250	74.9	73.9	71.8	72.6	71.9	71.3	68.8	70.5	68.9	69.7	71.7	73.5	72.9	72.9	76.0	77.1	76.8	74.6	77.1
1600	71.8	70.7	69.6	69.5	68.8	68.3	65.6	67.2	65.6	66.1	68.0	70.1	69.9	69.5	72.8	73.9	73.6	71.4	74.0
2000	68.4	67.3	65.2	66.0	65.3	64.9	61.9	63.8	62.0	62.4	64.0	66.6	65.7	65.5	68.9	69.9	69.5	67.3	69.9
2500	64.6	63.5	61.4	62.1	61.5	61.1	57.9	60.0	57.8	58.4	59.7	62.7	63.0	61.1	64.5	65.4	64.8	62.7	65.3
3150	60.3	59.4	57.2	58.0	57.4	57.0	53.4	55.5	53.3	53.8	55.2	58.1	58.5	56.4	59.8	60.1	59.4	57.2	60.0
4000	55.7	54.7	52.5	53.3	52.8	52.4	47.7	50.4	47.8	48.5	49.9	53.1	53.6	51.0	55.0	55.1	53.2	50.5	54.8
5000	50.8	49.7	48.8	47.6	46.8	46.2	41.2	43.8	40.4	42.6	43.9	47.4	47.7	45.0	49.4	49.8	46.0	44.0	49.6
6300	44.5	43.4	41.1	41.8	41.1	40.7	35.0	37.1	34.3	35.4	37.1	40.3	41.1	37.5	42.9	43.2	39.0	36.6	43.1
8000	38.7	37.5	35.0	35.4	35.0	34.9	29.0	31.6	27.9	28.9	30.2	34.6	36.2	31.9	37.3	37.5	33.2	29.4	38.1
10000	31.9	30.4	28.7	28.6	28.4	29.0	20.5	24.4	19.3	19.1	22.0	25.9	29.5	24.8	31.7	31.0	24.6	20.0	31.8
12500	23.1	21.5	14.3	17.8	17.9	19.5	7.0	15.6	7.4	9.3	11.0	15.6	21.8	15.9	22.7	22.0	14.9	7.4	23.6
15000	9.2	8.7	1.9	6.9	6.8	7.6		6.8			.1	5.3	10.6	7.0	11.6	12.5	5.1		15.5
20000															.6	3.0			7.5
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 04
AIRCRAFT CODE 704
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	95.9	95.2	92.9	93.5	92.9	92.4	89.0	93.5	90.0	91.2	92.8	94.9	94.0	94.3	97.5	97.6	97.2	95.7	98.4
250	93.7	93.0	90.7	91.3	90.7	90.1	86.8	91.4	87.5	88.9	90.6	92.7	91.5	92.1	95.4	95.4	95.1	93.6	96.3
315	91.4	90.7	88.4	89.0	88.4	87.9	84.4	88.9	85.0	86.5	88.4	90.5	89.3	89.5	93.2	93.3	92.9	91.4	94.1
400	89.1	88.4	86.1	86.7	86.0	85.2	82.1	86.3	82.6	84.1	86.1	88.2	86.8	87.0	90.7	91.1	90.8	88.3	91.9
500	86.7	86.0	83.7	84.3	83.6	83.1	79.6	83.7	80.0	81.6	83.6	85.7	84.4	84.3	88.0	88.5	88.3	86.2	89.6
630	84.2	83.5	81.2	81.8	81.1	80.6	77.1	81.0	77.4	79.0	81.0	83.1	81.8	81.5	85.3	85.8	85.6	83.5	86.8
800	81.7	80.9	78.6	79.2	78.5	78.0	74.5	78.2	74.7	75.2	78.2	80.4	79.0	78.8	82.6	83.0	82.7	80.6	84.0
1000	79.0	78.1	75.9	76.5	75.8	75.3	71.7	75.3	71.9	73.1	75.1	77.3	76.0	75.9	79.7	80.1	79.8	77.7	81.2
1250	76.1	75.2	73.0	73.6	72.9	72.2	68.8	72.3	68.9	69.7	71.7	74.0	72.9	72.9	76.7	77.1	76.8	74.6	78.2
1600	73.0	72.1	69.9	70.5	69.8	69.4	65.6	69.0	65.0	66.1	68.0	70.0	69.9	69.5	73.5	73.9	73.6	71.4	75.0
2000	69.6	68.7	66.4	67.0	66.4	66.0	61.9	65.6	62.0	62.4	64.0	67.1	66.7	65.5	69.5	69.9	69.5	67.3	71.0
2500	65.6	64.9	62.6	63.2	62.6	62.2	57.9	61.5	57.6	58.4	59.7	63.2	63.0	61.1	65.1	65.4	64.8	62.7	66.3
3150	61.5	60.8	58.5	59.0	58.5	58.1	53.4	57.3	53.3	53.8	55.2	58.6	58.5	56.4	60.5	60.1	59.4	57.2	61.1
4000	56.6	55.8	53.5	54.2	53.6	53.2	47.7	51.9	47.6	48.5	49.9	53.5	53.6	51.0	55.5	55.1	53.2	50.5	55.7
5000	51.5	50.5	47.5	48.3	47.4	46.9	41.2	44.9	40.4	42.6	43.9	47.7	47.7	45.0	49.8	49.8	46.0	44.0	50.3
6300	45.0	44.0	41.5	42.2	41.5	41.2	35.0	37.8	34.3	35.4	37.1	40.5	41.1	37.5	43.2	43.2	39.0	36.6	43.5
8000	38.9	37.8	35.2	35.6	35.3	35.1	29.0	32.2	27.9	28.9	30.2	34.7	36.2	31.9	37.5	37.5	33.2	29.4	38.3
10000	31.9	30.4	26.7	28.6	28.4	29.0	20.5	24.4	19.3	19.1	22.0	25.9	23.5	24.8	31.7	31.0	24.6	20.0	31.8
12500	23.1	21.5	14.3	17.8	17.9	19.5	7.0	15.6	7.4	9.3	11.0	15.6	21.8	15.9	22.7	22.0	14.9	7.4	23.6
16000	9.2	8.7	1.9	6.9	6.8	7.6		6.8			.1	5.3	10.6	7.0	11.6	12.5	5.1		15.5
20000															.6	3.0			7.5
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 04
AIRCRAFT CODE 704
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	81.9	81.0	79.2	79.7	79.3	79.1	75.2	76.8	74.9	75.0	76.8	79.4	79.1	77.1	81.0	80.2	78.2	77.3	79.8
250	79.8	78.9	77.1	77.6	77.2	77.0	73.1	74.7	72.8	73.7	74.7	77.4	77.1	75.0	79.0	78.1	76.1	75.3	77.7
315	77.7	76.8	74.9	75.5	75.1	74.9	71.0	72.6	70.7	71.6	72.7	75.3	75.0	73.0	76.9	76.0	74.1	73.2	75.7
400	75.6	74.6	72.8	73.3	72.9	72.7	68.8	70.5	68.5	69.5	70.5	73.1	72.9	70.9	74.8	73.9	72.0	71.1	73.6
500	73.4	72.4	70.6	71.2	70.7	70.5	66.6	68.3	66.3	67.3	68.4	71.0	70.7	68.7	72.6	71.8	69.8	68.9	71.4
630	71.1	70.1	68.3	68.9	68.5	68.3	64.3	66.0	64.0	65.0	66.1	68.7	68.5	66.5	70.3	69.5	67.6	66.7	69.3
800	68.8	67.8	66.0	66.6	66.2	66.0	62.0	63.7	61.7	62.6	63.7	66.3	66.1	64.1	68.0	67.3	65.3	64.3	67.1
1000	66.4	65.4	63.6	64.2	63.8	63.7	59.6	61.3	59.3	60.2	61.2	63.9	63.7	61.7	65.6	64.9	62.9	61.9	64.8
1250	63.9	62.9	61.1	61.7	61.3	61.2	57.1	58.9	56.7	57.6	58.6	61.3	61.2	59.2	63.1	62.5	60.4	59.2	62.5
1600	61.3	60.3	58.5	59.1	58.8	58.7	54.5	56.3	54.1	54.8	55.8	58.6	58.6	56.5	60.4	59.9	57.7	56.4	60.0
2000	58.5	57.6	55.7	56.3	56.1	56.0	51.7	53.5	51.2	51.9	52.9	55.7	55.8	53.7	57.6	57.1	54.7	53.4	57.3
2500	55.6	54.5	52.7	53.4	53.2	53.2	48.7	50.6	48.2	48.8	49.7	52.5	52.7	50.6	54.5	54.2	51.5	50.1	54.4
3150	52.3	51.3	49.5	50.1	50.0	50.1	45.5	47.4	45.0	45.4	46.3	49.1	49.3	47.1	51.2	50.9	47.9	46.5	51.3
4000	48.7	47.6	45.9	46.5	46.5	46.6	42.0	43.8	41.4	41.7	42.6	45.4	45.6	43.4	47.6	47.4	44.1	42.5	47.7
5000	44.7	43.6	41.9	42.5	42.5	42.7	38.0	39.8	37.4	37.7	38.6	41.3	41.5	39.3	43.6	43.3	39.9	38.3	43.7
6300	40.3	39.2	37.5	38.2	38.2	38.4	33.7	35.5	33.0	33.4	34.2	36.9	37.1	34.9	39.2	39.0	35.5	33.9	39.4
8000	35.9	34.8	33.1	33.6	34.0	34.2	29.5	31.5	29.0	29.4	30.4	32.8	33.3	31.2	35.2	35.2	31.8	30.2	35.7
10000	31.2	30.1	28.3	29.2	29.3	29.7	24.9	27.2	24.7	25.2	26.3	28.4	29.1	27.2	31.0	31.2	28.1	26.4	31.7
12500	26.1	25.1	23.1	24.1	24.3	24.7	20.0	22.6	20.1	20.7	21.9	23.8	24.7	23.0	26.5	26.8	24.3	22.6	27.5
16000	20.7	19.6	17.6	18.8	19.0	19.4	14.8	17.8	15.4	16.0	17.5	19.1	20.1	18.3	21.8	22.4	20.6	18.9	23.1
20000	15.1	14.2	11.9	13.2	13.3	13.7	9.7	12.9	10.7	11.5	13.1	14.5	15.4	14.5	17.2	18.0	17.2	15.4	18.7
25000	9.4	8.5	5.1	7.5	7.6	7.9	5.2	8.3	6.4	7.3	8.9	10.3	10.7	10.7	13.0	14.0	14.1	12.2	14.7

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-001
RUN 04
AIRCRAFT CODE 704
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE G1

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	83.1	82.4	80.4	80.0	80.3	80.2	75.2	78.6	74.9	75.8	76.6	80.0	79.1	77.1	81.7	80.2	78.2	77.3	80.9
250	81.0	80.3	78.3	78.7	78.2	78.1	73.1	76.5	72.8	73.7	74.7	77.9	77.1	75.0	79.0	78.1	76.1	75.3	78.8
315	78.9	78.2	76.2	76.5	76.1	76.0	71.0	74.4	70.7	71.6	72.7	75.8	75.0	73.0	77.5	76.0	74.1	73.2	76.7
400	76.6	76.0	74.0	74.4	74.0	73.8	68.8	72.2	68.5	69.2	70.5	73.7	72.9	70.9	75.4	73.9	72.0	71.1	74.6
500	74.6	73.8	71.8	72.2	71.8	71.7	66.0	70.0	66.3	67.3	68.4	71.5	70.7	68.7	73.3	71.8	69.8	68.9	72.5
630	72.3	71.5	69.5	69.9	69.5	69.4	64.3	67.8	64.0	65.0	66.1	69.2	68.5	66.5	71.0	69.5	67.6	66.7	70.3
800	70.0	69.2	67.2	67.6	67.2	67.1	62.0	65.5	61.7	62.6	63.7	66.9	66.1	64.1	68.7	67.3	65.3	64.3	68.1
1000	67.6	66.6	64.8	65.2	64.9	64.8	59.6	63.1	59.3	60.2	61.2	64.4	63.7	61.7	66.3	64.9	62.9	61.9	65.9
1250	65.1	64.3	62.3	62.7	62.4	62.3	57.1	60.6	56.7	57.6	58.6	61.8	61.2	59.2	63.7	62.5	60.4	59.2	63.5
1600	62.5	61.7	59.7	60.1	59.8	59.8	54.5	58.0	54.1	54.8	55.8	59.1	58.6	56.5	61.1	59.9	57.7	56.4	61.1
2000	59.6	58.9	56.9	57.4	57.1	57.1	51.7	55.3	51.2	51.9	52.9	56.2	55.8	53.7	58.3	57.1	54.7	53.4	58.4
2500	56.8	55.9	54.0	54.4	54.2	54.3	48.7	52.4	48.2	48.8	49.7	53.0	52.7	50.6	55.2	54.2	51.5	50.1	55.5
3150	53.5	52.7	50.7	51.1	51.1	51.2	45.2	49.2	45.0	45.4	46.3	49.6	49.3	47.1	51.9	50.9	47.9	46.5	52.3
4000	49.7	48.8	46.9	47.4	47.3	47.5	42.0	45.2	41.4	41.7	42.6	45.8	45.6	43.4	48.1	47.4	44.1	42.5	48.6
5000	45.4	44.4	42.6	43.2	43.2	43.4	38.0	40.9	37.4	37.7	38.6	41.6	41.5	39.3	44.0	43.3	39.9	38.3	44.4
6300	40.8	39.7	38.0	38.6	38.6	38.8	33.7	36.2	33.0	33.4	34.2	37.1	37.1	34.9	39.5	39.0	35.5	33.9	39.9
8000	36.2	35.1	33.3	34.0	34.2	34.4	29.5	31.8	29.0	29.4	30.4	32.9	33.3	31.2	35.4	35.2	31.8	30.2	35.9
10000	31.2	30.1	28.3	29.2	29.3	29.7	24.9	27.2	24.7	25.2	26.3	28.4	29.1	27.2	31.0	31.2	28.1	26.4	31.7
12500	26.1	25.1	23.1	24.1	24.3	24.7	20.0	22.6	20.1	20.7	21.9	23.8	24.7	23.0	26.5	26.8	24.3	22.6	27.5
16000	20.7	19.6	17.6	18.6	19.0	19.4	14.8	17.6	15.4	16.0	17.5	19.1	20.1	18.8	21.8	22.4	20.6	18.9	23.1
20000	15.1	14.2	11.9	13.2	13.3	13.7	9.7	12.9	10.7	11.5	13.1	14.5	15.4	14.5	17.2	18.0	17.2	15.4	18.7
25000	9.4	8.5	6.1	7.5	7.6	7.9	5.2	6.3	6.4	7.3	8.9	10.3	10.7	10.7	13.0	14.0	14.1	12.2	14.7

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

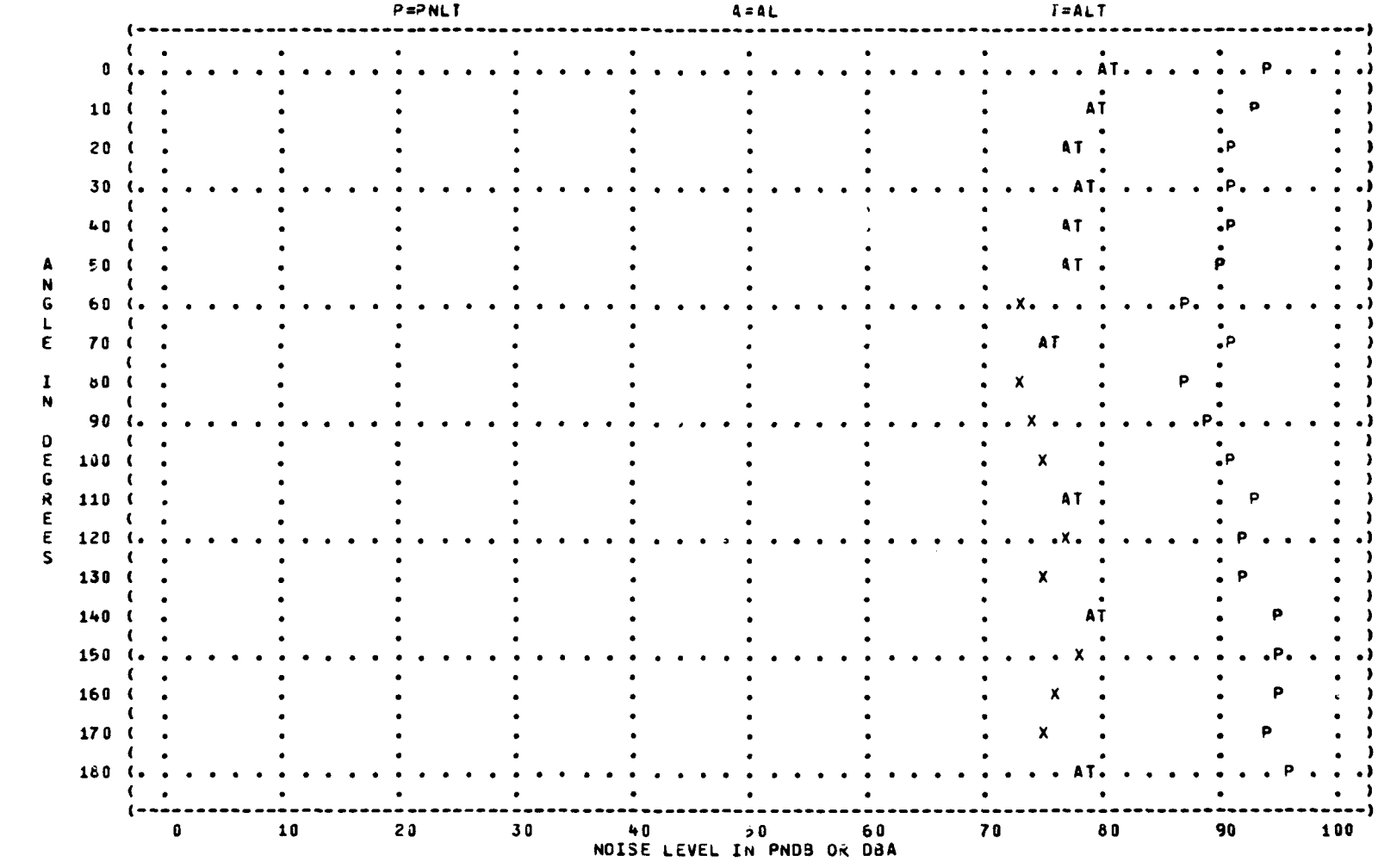
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-704-801
RUN 04
AIRCRAFT CODE 704
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE J1



USAF HUSH HOUSE(F-16 A/C) HUSH HOUSE(F-16 A/C) HUSH HOUSE(F-16 A/C) HUSH HOUSE(F-16 A/C) USAF

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(F-16 A/C)

DURING GROUND RUN-UP OPERATIONS

TEST BF-705-001
AIRCRAFT CODE: 705
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting	Page
Idle Power, 68% RPM	58
Engine Runup, 80% RPM	64
Military Power, 92% RPM	70
Afterburner Power, 92% RPM	76

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF HUSH HOUSE(F-16 A/C) HUSH HOUSE(F-16 A/C) HUSH HOUSE(F-16 A/C) HUSH HOUSE(F-16 A/C) USAF

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 01
AIRCRAFT CODE 705
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE C3

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (66%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	42<	45<	42<	47<	61	42<	43<	42<	39<	36<	65<	68	64	60	60	60	60	60	60
63	42<	45<	42<	47<	60<	42<	43<	42<	38<	36<	65	67	63<	59<	59<	59<	59<	59<	59<
80	42<	45<	42<	47<	59<	42<	43<	42<	38<	36<	63<	65<	61<	58<	58<	58<	58<	58<	58<
100	42<	45<	42<	47<	58<	42<	43<	42<	38<	36<	61<	63<	59<	57<	57<	57<	57<	57<	57<
125	42<	45<	42<	47<	56<	42<	43<	42<	38<	36<	60<	62<	58<	55<	55<	55<	55<	55<	55<
160	42<	45<	42<	47<	55<	42<	43<	42<	38<	36<	58<	60<	56<	54<	54<	54<	54<	54<	54<
200	42<	45<	42<	47<	54<	42<	43<	42<	38<	36<	56<	58<	54<	53<	53<	53<	53<	53<	53<
250	42<	45<	42<	47<	53<	42<	43<	42<	38<	36<	55<	56<	53<	52<	52<	52<	52<	52<	52<
315	42<	45<	42<	47<	52<	42<	43<	42<	38<	36<	53<	54<	51<	50<	50<	50<	50<	50<	50<
400	42<	45<	42<	47<	50<	42<	43<	42<	38<	36<	51<	52<	49<	49<	49<	49<	49<	49<	49<
500	42<	45<	42<	47<	49<	42<	43<	42<	38<	36<	49<	50<	48<	48<	48<	48<	48<	48<	48<
630	42<	45<	42<	47<	48<	42<	43<	42<	38<	36<	48<	48<	46<	47<	47<	47<	47<	47<	47<
800	42<	45<	42<	47<	47<	42<	43<	42<	38<	36<	46<	46<	44<	45	45	45	45	45	45
1000	42	45<	42<	47<	46<	42<	43<	42<	38<	36<	44<	44<	42	48	48	48	48	48	48
1250	49	45	42	47<	44	42	43<	42<	38<	36<	42<	42<	42	47	47	47	47	47	47
1600	51	49	48	47	47	44	43	42<	38<	36<	41<	40<	42	47	47	47	47	47	47
2000	43	50<	48<	47<	48<	46<	45<	42<	38<	36<	39<	38<	41<	46	46	46	46	46	46
2500	49	51	49	47	49	48	47	42	38<	36<	37<	36<	40	44	44	44	44	44	44
3150	47	49	46	44	45	44	44	41	38	36	35<	34<	38	41	41	41	41	41	41
4000	44	45	39	36	36	37	38	38	35	35<	34<	32<	34	37	37	37	37	37	37
5000	48	46	42	43	40	40	39	42	33	34	32<	30	33	35	35	35	35	35	35
6300	46	43	40	41	39	38	35	37	33	29	30<	30	30	31	31	31	31	31	31
8000	45	42	39	35	38	36	35	38	35	32	29	32	31	31	31	31	31	31	31
10000	39	35	32	33	30	29	28	32	30	28	27	29	27	25<	25<	25<	25<	25<	25<
OVERALL	59	60	57	60	63	56	56	55	51	49	71	73	69	67	67	67	67	67	67

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (68%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 01
AIRCRAFT CODE 705
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE D3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	73.4	74.0	72.1	72.7	74.8	70.7	70.2	68.1	64.2	61.7	71.4	72.6	70.5	72.1	72.1	72.1	72.1	72.1	72.1
250	71.1	72.3	69.8	70.4	72.5	68.4	67.8	65.7	61.8	59.3	69.1	70.3	68.3	69.8	69.8	69.8	69.8	69.8	69.8
315	68.7	69.9	67.4	68.0	70.2	66.0	65.5	63.3	59.3	56.7	66.0	67.9	65.9	67.5	67.5	67.5	67.5	67.5	67.5
400	66.1	67.4	64.9	65.5	67.7	63.5	62.9	60.7	56.6	53.9	64.4	65.4	63.4	65.1	65.1	65.1	65.1	65.1	65.1
500	63.5	64.8	62.3	62.9	65.2	60.9	60.3	58.0	53.0	50.9	61.9	62.9	60.8	62.6	62.6	62.6	62.6	62.6	62.6
630	60.6	62.1	59.5	60.2	62.4	58.1	57.6	55.1	50.0	47.5	59.3	60.2	58.0	59.8	59.8	59.8	59.8	59.8	59.8
800	57.7	59.2	56.6	57.2	59.5	55.1	54.5	52.0	46.9	43.9	56.4	57.4	55.0	56.9	56.9	56.9	56.9	56.9	56.9
1000	54.4	56.0	53.3	54.0	56.3	51.9	51.3	48.4	43.2	40.0	53.2	54.3	51.7	53.7	53.7	53.7	53.7	53.7	53.7
1250	50.8	52.6	49.9	50.5	52.8	48.4	47.7	44.5	38.9	35.8	49.9	50.9	48.4	50.1	50.1	50.1	50.1	50.1	50.1
1600	46.8	48.6	45.7	46.4	48.7	44.1	43.6	40.1	34.5	30.3	46.1	47.2	44.4	46.1	46.1	46.1	46.1	46.1	46.1
2000	42.3	44.1	41.2	41.9	44.0	39.0	38.7	35.4	27.9	21.5	42.0	42.9	39.9	41.5	41.5	41.5	41.5	41.5	41.5
2500	37.1	38.9	35.6	36.9	38.7	33.9	33.2	28.6	17.9	9.0	36.1	37.5	34.1	36.0	36.0	36.0	36.0	36.0	36.0
3150	30.5	32.7	28.7	30.6	32.5	26.5	26.3	18.7	6.0		27.2	28.9	26.2	29.3	29.3	29.3	29.3	29.3	29.3
4000	20.8	23.7	18.1	21.8	23.3	14.4	12.4	8.7			19.0	19.9	14.7	21.9	21.9	21.9	21.9	21.9	21.9
5000	10.1	9.3	7.5	13.0	6.8	2.3					7.0	8.0	3.2	14.6	14.6	14.6	14.6	14.5	14.5
6300				4.2										7.2	7.2	7.2	7.2	7.2	7.2
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (68%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 01
AIRCRAFT CODE 705
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	75.6	74.0	72.1	74.0	74.8	70.7	71.2	69.5	65.6	62.2	71.4	72.6	70.5	72.1	72.1	72.1	72.1	72.1	72.1
250	73.2	72.3	69.8	71.6	72.5	68.4	68.9	67.1	63.2	59.8	69.1	70.3	68.3	69.8	69.8	69.8	69.8	69.8	69.8
315	70.8	69.9	67.4	69.3	70.2	66.0	66.5	64.7	60.7	57.2	66.8	67.9	65.9	67.5	67.5	67.5	67.5	67.5	67.5
400	68.2	67.4	64.9	66.8	67.7	63.5	64.0	62.1	58.0	54.4	64.4	65.4	63.4	65.1	65.1	65.1	65.1	65.1	65.1
500	65.6	64.8	62.3	64.2	65.2	60.9	61.4	59.4	55.1	51.4	61.9	62.9	60.8	62.6	62.6	62.6	62.6	62.6	62.5
630	62.7	62.1	59.5	61.5	62.4	58.1	58.6	56.5	51.9	48.0	59.3	60.2	58.0	59.8	59.8	59.8	59.8	59.8	59.8
800	59.8	59.2	56.6	58.5	59.5	55.1	55.6	53.4	48.3	44.4	56.4	57.4	55.0	56.9	56.9	56.9	56.9	56.9	56.9
1000	56.5	56.0	53.3	55.3	56.3	51.9	52.4	49.8	44.6	40.5	53.2	54.3	51.7	53.7	53.7	53.7	53.7	53.7	53.7
1250	53.0	52.6	49.9	51.8	52.8	48.4	48.7	45.9	40.3	36.3	49.9	50.9	48.4	50.1	50.1	50.1	50.1	50.1	50.1
1600	48.9	48.6	45.7	47.7	48.7	44.1	44.7	41.5	35.9	30.8	46.1	47.2	44.4	46.1	46.1	46.1	46.1	46.1	46.1
2000	44.4	44.1	41.2	43.2	44.0	39.6	39.8	36.8	29.3	22.0	42.0	42.9	39.9	41.5	41.5	41.5	41.5	41.5	41.5
2500	39.2	38.9	35.6	38.2	38.7	33.9	34.2	30.0	19.3	9.5	36.1	37.5	34.1	36.0	36.0	36.0	36.0	36.0	36.0
3150	32.6	32.7	28.7	31.9	32.5	26.5	27.4	20.1	9.3		27.2	28.9	26.2	29.3	29.3	29.3	29.3	29.3	29.3
4000	22.5	23.7	18.1	22.8	23.3	14.4	13.3	9.8			19.0	19.9	14.7	21.9	21.9	21.9	21.9	21.9	21.9
5000	11.3	9.3	7.5	13.7	6.8	2.3					7.0	8.0	3.2	14.5	14.6	14.6	14.6	14.6	14.6
6300	.2			4.7										7.2	7.2	7.2	7.2	7.2	7.2
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (68%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
B.R PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 01
AIRCRAFT CODE 705
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	60.6	61.0	60.7	59.5	60.3	56.9	56.9	55.0	51.1	48.8	58.5	59.4	57.3	59.1	59.1	59.1	59.1	59.1	59.1
250	58.3	58.8	56.5	57.3	58.2	54.7	54.3	52.8	48.9	46.5	56.5	57.3	55.2	57.0	57.0	57.0	57.0	57.0	57.0
315	56.0	56.5	54.2	55.1	56.0	52.5	52.1	50.6	46.6	44.3	54.4	55.3	53.1	54.9	54.9	54.9	54.9	54.9	54.9
400	53.6	54.2	51.9	52.9	53.8	50.2	49.8	48.3	44.3	42.0	52.3	53.2	51.0	52.7	52.7	52.7	52.7	52.7	52.7
500	51.2	51.8	49.6	50.6	51.5	47.8	47.5	45.9	41.9	39.6	50.1	51.0	48.8	50.5	50.5	50.5	50.5	50.5	50.5
630	48.6	49.3	47.1	48.3	49.2	45.4	45.1	43.5	39.5	37.2	47.9	48.7	46.5	48.2	48.2	48.2	48.2	48.2	48.2
800	46.0	46.7	44.5	45.9	46.8	42.9	42.6	41.0	37.0	34.7	45.5	46.4	44.1	45.8	45.8	45.8	45.8	45.8	45.8
1000	43.3	44.1	41.9	43.4	44.3	40.3	40.0	38.4	34.4	32.1	43.1	44.0	41.7	43.4	43.4	43.4	43.4	43.4	43.4
1250	40.5	41.3	39.1	40.8	41.6	37.9	37.3	35.8	31.7	29.4	40.5	41.3	39.1	40.8	40.8	40.8	40.8	40.8	40.8
1600	37.6	38.3	36.1	38.0	38.9	34.6	34.5	33.0	28.9	26.6	37.8	38.6	36.3	38.1	38.1	38.1	38.1	38.1	38.1
2000	34.5	35.3	33.0	35.2	36.0	31.5	31.5	30.1	26.0	23.6	34.9	35.7	33.5	35.3	35.3	35.3	35.3	35.3	35.3
2500	31.2	32.0	29.6	32.2	32.8	28.3	28.3	27.0	22.9	20.7	31.7	32.4	30.3	32.1	32.1	32.1	32.1	32.1	32.1
3150	27.7	28.4	26.0	28.8	29.3	24.7	24.8	23.7	19.5	17.3	28.2	28.8	25.8	28.7	28.7	28.7	28.7	28.7	28.7
4000	23.8	24.5	22.0	25.2	25.4	20.8	21.0	20.0	15.9	13.6	24.4	24.8	22.9	25.0	25.0	25.0	25.0	25.0	25.0
5000	19.6	20.2	17.6	21.1	21.2	16.5	16.9	15.9	11.8	9.6	20.1	20.6	18.7	20.9	20.9	20.9	20.9	20.9	20.9
6300	14.9	15.5	12.8	16.7	16.6	11.9	12.4	11.5	7.4	5.1	15.7	16.1	14.2	16.5	16.5	16.5	16.5	16.5	16.5
8000	10.0	11.0	8.1	12.5	12.6	7.5	8.1	7.3	3.2	.9	12.1	12.6	10.5	12.3	12.3	12.3	12.3	12.3	12.3
10000	4.7	6.3	3.1	7.9	8.4	2.8	3.5	2.7			8.2	8.8	5.5	7.9	7.9	7.9	7.9	7.9	7.9
12500		1.2		3.0	3.9						4.1	4.8	2.3	3.1	3.1	3.1	3.1	3.1	3.1
16000												.7							
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (68%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 01
AIRCRAFT CODE 705
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE G3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	62.7	61.0	58.7	60.8	60.3	56.9	57.6	56.4	52.5	49.3	58.5	59.4	57.3	59.1	59.1	59.1	59.1	59.1	59.1
250	60.4	58.8	56.5	58.6	58.2	54.7	55.4	54.2	50.3	47.1	56.5	57.3	55.2	57.0	57.0	57.0	57.0	57.0	57.0
315	58.1	56.5	54.2	56.4	56.0	52.5	53.2	52.0	48.0	44.8	54.4	55.3	53.1	54.9	54.9	54.9	54.9	54.9	54.9
400	55.7	54.2	51.9	54.2	53.8	50.2	50.9	49.7	45.7	42.5	52.3	53.2	51.0	52.7	52.7	52.7	52.7	52.7	52.7
500	53.3	51.8	49.6	51.9	51.5	47.8	48.5	47.3	43.3	40.1	50.1	51.0	48.8	50.5	50.5	50.5	50.5	50.5	50.5
630	50.8	49.3	47.1	49.6	49.2	45.4	46.1	44.9	40.9	37.7	47.9	48.7	46.5	48.2	48.2	48.2	48.2	48.2	48.2
800	48.1	46.7	44.6	47.1	46.8	42.9	43.6	42.4	38.3	35.2	45.5	46.4	44.1	45.8	45.8	45.8	45.8	45.8	45.8
1000	45.4	44.1	41.9	44.6	44.3	40.3	41.0	39.8	35.8	32.6	43.1	44.0	41.7	43.4	43.4	43.4	43.4	43.4	43.4
1250	42.6	41.3	39.1	42.0	41.6	37.5	38.3	37.2	33.1	29.9	40.5	41.3	39.1	40.8	40.8	40.8	40.8	40.8	40.8
1600	39.7	38.3	36.1	39.3	38.9	34.6	35.5	34.4	30.3	27.2	37.8	38.6	36.3	38.1	38.1	38.1	38.1	38.1	38.1
2000	36.6	35.3	33.0	36.5	36.0	31.5	32.5	31.5	27.4	24.3	34.9	35.7	33.5	35.3	35.3	35.3	35.3	35.3	35.3
2500	33.3	32.0	29.6	33.4	32.8	28.3	29.3	28.4	24.3	21.2	31.7	32.4	30.3	32.1	32.1	32.1	32.1	32.1	32.1
3150	29.6	28.4	26.0	30.1	29.3	24.7	25.9	25.1	20.9	17.8	28.2	28.8	25.8	28.7	28.7	28.7	28.7	28.7	28.7
4000	25.5	24.5	22.0	26.2	25.4	20.8	21.9	21.1	17.0	14.1	24.4	24.8	22.9	25.0	25.0	25.0	25.0	25.0	25.0
5000	20.8	20.2	17.6	21.9	21.2	16.5	17.5	16.8	12.6	9.9	20.1	20.6	18.7	20.9	20.9	20.9	20.9	20.9	20.9
6300	15.7	15.5	12.8	17.2	16.6	11.9	12.8	12.1	7.9	5.3	15.7	16.1	14.2	16.5	16.5	16.5	16.5	16.5	16.5
8000	10.4	11.0	8.1	12.7	12.6	7.5	8.3	7.6	3.4	1.0	12.1	12.6	10.5	12.3	12.3	12.3	12.3	12.3	12.3
10000	4.7	6.3	3.1	7.9	8.4	2.8	3.5	2.7			8.2	8.8	6.5	7.9	7.9	7.9	7.9	7.9	7.9
12500		1.2		3.0	3.9						4.1	4.8	2.3	3.1	3.1	3.1	3.1	3.1	3.1
16000												.7							
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
IDLE POWER (68%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 01
AIRCRAFT CODE 705
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE J3

P=PNLT A=AL T=ALT

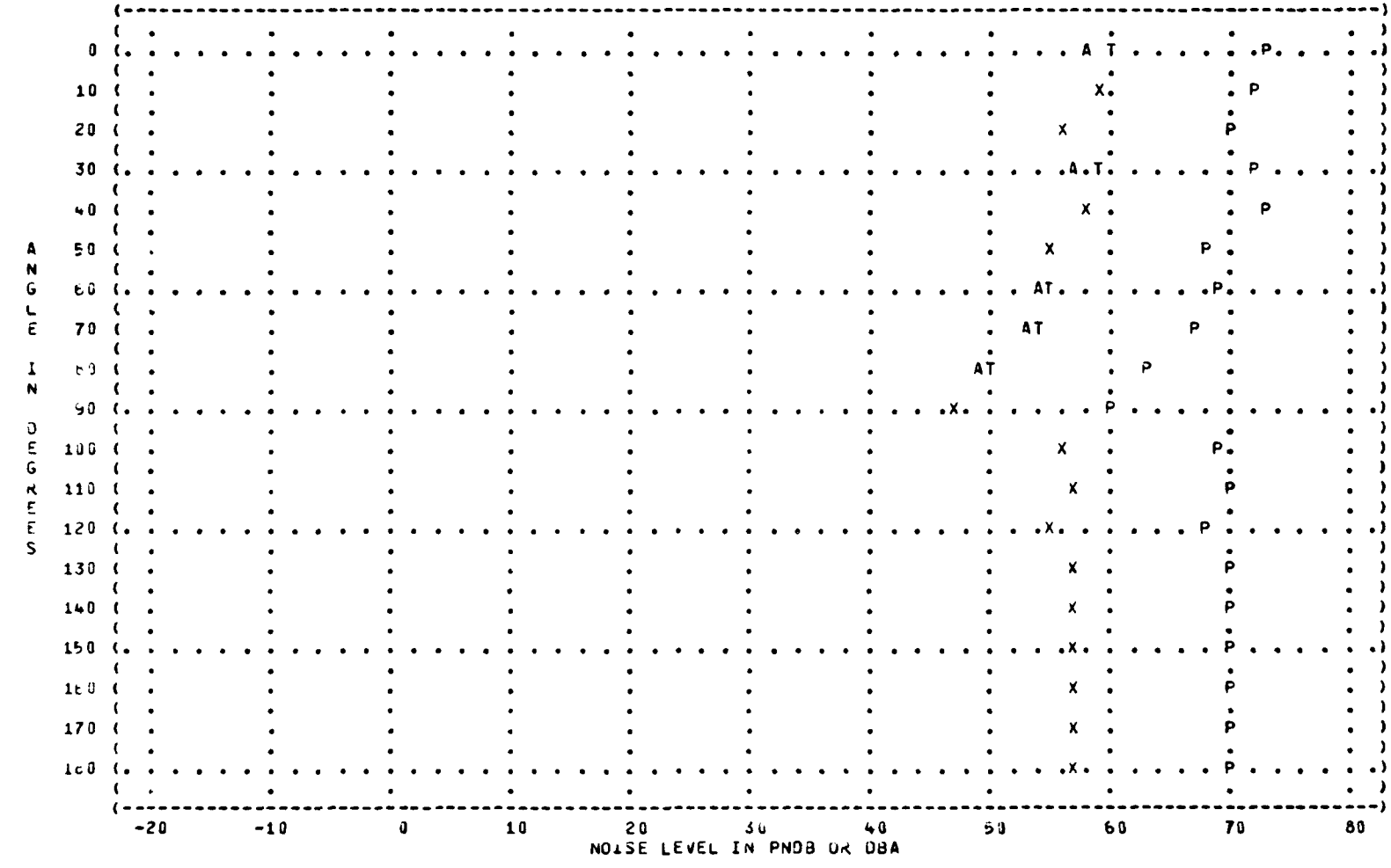


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 02
AIRCRAFT CODE 705
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE C4

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	61	42<	43<	45<	60	60	61	65	62	60	62	64	63	67	67	67	67	67	67
63	60<	42<	43<	45<	59<	58<	59<	63<	61<	59<	60<	62<	62<	65<	65<	65<	65<	65<	65<
80	58<	42<	43<	45<	57<	57<	58<	61<	59<	57<	59<	60<	60<	64<	64<	64<	64<	64<	64<
100	57<	42<	43<	45<	56<	56<	57<	60<	58<	56<	57<	59<	58<	62<	62<	62<	62<	62<	62<
125	55<	42<	43<	45<	55<	54<	56<	58<	57<	54<	56<	57<	57<	60<	60<	60<	60<	60<	60<
160	54<	42<	43<	45<	53<	53<	54<	57<	55<	53<	54<	55<	55<	59<	59<	59<	59<	59<	59<
200	53<	42<	43<	45<	52<	51<	53<	55<	54<	51<	52<	54<	53<	57<	57<	57<	57<	57<	57<
250	51<	42<	43<	45<	51<	50<	52<	53<	52<	50<	51<	52<	52<	55<	55<	55<	55<	55<	55<
315	50<	42<	43<	45<	49<	49<	51<	52<	51<	48<	49<	50<	50<	54<	54<	54<	54<	54<	54<
400	48<	42<	43<	45<	48<	47<	49<	50<	50<	47<	47<	49<	49<	52<	52<	52<	52<	52<	52<
500	47<	42<	43<	45<	47<	46<	48<	48<	48<	45<	46<	47<	47<	50<	50<	50<	50<	50<	50<
630	45	42<	43<	45	45<	44<	47<	47<	47<	44<	44<	46<	45	49	49	49	49	49	49
800	43	42<	43<	44	44<	43<	46<	45<	45<	42<	42<	44<	48	52	52	52	52	52	52
1000	45	42	43<	43	43	41	44<	43<	44<	41<	41<	42<	50	54	54	54	54	54	54
1250	48	46	43	45	46	45	43<	42<	43<	39<	39<	41<	50	54	54	54	54	54	54
1600	49	48	46	46	46	43	42	40<	41<	38<	38<	39<	50	56	56	56	56	56	56
2000	44	43	44<	42<	44<	41<	40<	39<	40<	36<	36<	37<	49	54	54	54	54	54	54
2500	40<	41<	41<	39	41<	39<	38<	37<	39<	35<	34<	36<	48	48	48	48	48	48	48
3150	36<	40<	39<	38<	39<	37<	35<	35<	37<	33<	33<	34<	43	45	45	45	45	45	45
4000	33	38<	36<	37<	36<	35<	33<	34	36<	31<	31<	32<	40	41	41	41	41	41	41
5000	39	36	34	36	34	33	31	36	34	30<	29<	31	38	38	38	38	38	38	38
6300	38	35	35	36	33	33	30	35	33	28	28	30	36	36	36	36	36	36	36
8000	33	31	30	33	31	30	29	34	32	28	31	32	33	34	34	34	34	34	34
10000	32	28	30	30	29	27	26	30	29	26	28	31	28	30	30	30	30	30	30
OVERALL	67	56	56	57	66	65	67	70	68	66	67	69	69	72	72	72	72	72	72

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 02
AIRCRAFT CODE 705
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE D4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	71.9	68.4	67.8	68.2	70.8	69.0	69.4	70.7	70.1	66.9	67.6	69.2	74.1	78.2	78.2	78.2	78.2	78.2	78.2
250	69.6	66.1	65.5	65.9	68.5	66.8	67.2	68.4	67.9	64.7	65.3	67.0	71.8	75.9	75.9	75.9	75.9	75.9	75.9
315	67.3	63.8	63.1	63.6	66.2	64.4	64.9	66.1	65.6	62.3	63.0	64.7	69.5	73.7	73.7	73.7	73.7	73.7	73.7
400	64.9	61.2	60.7	61.2	63.7	61.9	62.5	63.7	63.2	59.8	60.5	62.2	67.1	71.3	71.3	71.3	71.3	71.3	71.3
500	62.3	58.7	58.0	58.5	61.1	59.3	59.9	61.2	60.6	57.1	57.8	59.6	64.6	68.9	68.9	68.9	68.9	68.9	68.9
630	59.5	56.0	55.3	55.8	58.3	56.4	57.2	58.4	57.9	54.1	54.8	56.8	61.9	66.3	66.3	66.3	66.3	66.3	66.3
800	56.6	53.2	52.4	52.9	55.5	53.3	54.2	55.4	54.9	51.1	51.8	53.7	59.0	63.6	63.6	63.6	63.6	63.6	63.6
1000	53.6	50.1	49.1	49.5	52.1	49.8	50.9	52.2	51.7	47.7	48.6	50.5	56.0	60.7	60.7	60.7	60.7	60.7	60.7
1250	49.8	46.3	45.2	45.5	48.3	46.1	47.6	48.7	48.2	44.3	45.1	47.1	52.5	57.5	57.5	57.5	57.5	57.5	57.5
1600	45.6	42.1	41.0	41.5	43.9	42.0	43.8	45.0	44.4	40.0	40.7	43.2	48.5	54.2	54.2	54.2	54.2	54.2	54.2
2000	40.7	37.6	36.6	36.9	39.5	37.6	39.6	40.4	40.0	35.3	36.3	38.6	43.8	50.2	50.2	50.2	50.2	50.2	50.2
2500	35.3	32.2	30.9	31.6	34.0	31.4	33.6	34.2	34.1	28.2	29.1	32.2	38.2	45.2	45.2	45.2	45.2	45.2	45.2
3150	28.9	24.5	24.2	23.9	26.8	23.2	26.5	25.6	26.5	18.4	20.2	22.8	32.7	39.6	39.6	39.6	39.6	39.6	39.6
4000	18.5	13.0	8.7	10.5	14.9	9.9	17.0	17.3	17.1	7.1	8.1	14.1	24.8	33.4	33.4	33.4	33.4	33.4	33.4
5000	8.0	1.5			2.9		7.5	9.1	7.7			5.4	19.9	25.1	25.1	25.1	25.1	25.1	25.1
6300								.9						11.4	11.4	11.4	11.4	11.4	11.4
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 53 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 02
AIRCRAFT CODE 705
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE E4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	73.0	69.5	67.8	68.2	70.8	69.0	69.4	70.7	70.1	66.9	67.6	69.2	74.1	78.2	78.2	78.2	78.2	78.2	78.2
250	70.7	67.2	65.5	65.9	68.5	66.8	67.2	68.4	67.9	64.7	65.3	67.0	71.8	75.9	75.9	75.9	75.9	75.9	75.9
315	68.4	64.9	63.1	63.6	66.2	64.4	64.9	66.1	65.6	62.3	63.0	64.7	69.5	73.7	73.7	73.7	73.7	73.7	73.7
400	66.0	62.3	60.7	61.2	63.7	61.9	62.5	63.7	63.2	59.8	60.5	62.2	67.1	71.3	71.3	71.3	71.3	71.3	71.3
500	63.4	59.8	58.0	58.5	61.1	59.3	59.9	61.2	60.5	57.1	57.8	59.6	64.6	68.9	68.9	68.9	68.9	68.9	68.9
630	60.6	57.1	55.3	55.6	58.3	56.4	57.2	58.4	57.9	54.1	54.6	56.6	61.9	66.3	66.3	66.3	66.3	66.3	66.3
800	57.7	54.3	52.4	52.9	55.5	53.3	54.2	55.4	54.9	51.1	51.8	53.7	59.0	63.6	63.6	63.6	63.6	63.6	63.6
1000	54.7	51.1	49.1	49.5	52.1	49.8	50.9	52.2	51.7	47.7	48.6	50.5	56.0	60.7	60.7	60.7	60.7	60.7	60.7
1250	51.0	47.3	45.2	45.5	48.3	46.1	47.6	48.7	48.2	44.3	45.1	47.1	52.5	57.5	57.5	57.5	57.5	57.5	57.5
1600	46.8	43.2	41.0	41.5	43.9	42.0	43.8	45.0	44.4	40.0	40.7	43.2	48.5	54.2	54.2	54.2	54.2	54.2	54.2
2000	41.9	38.7	36.6	36.9	39.5	37.6	39.6	40.4	40.0	35.3	36.3	38.6	43.8	50.2	50.2	50.2	50.2	50.2	50.2
2500	36.5	33.2	30.9	31.6	34.0	31.4	33.6	34.2	34.1	28.2	29.1	32.2	38.2	45.2	45.2	45.2	45.2	45.2	45.2
3150	30.0	25.6	24.2	23.9	26.8	23.2	26.5	25.6	26.5	18.4	20.2	22.6	32.7	39.6	39.6	39.6	39.6	39.6	39.6
4000	19.4	13.9	8.7	10.5	14.9	9.9	17.0	17.3	17.1	7.1	8.1	14.1	24.8	33.4	33.4	33.4	33.4	33.4	33.4
5000	8.7	2.1			2.9		7.5	9.1	7.7			5.4	9.9	25.1	25.1	25.1	25.1	25.1	25.1
6300								.9						11.4	11.4	11.4	11.4	11.4	11.4
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 02
AIRCRAFT CODE 705
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE F4

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	58.4	56.2	55.6	55.9	57.6	56.1	57.1	57.6	57.3	54.3	54.9	56.4	60.8	65.1	65.1	65.1	65.1	65.1	65.1
250	56.3	54.0	53.5	53.8	55.5	54.0	55.0	55.5	55.3	52.2	52.8	54.3	58.7	63.0	63.0	63.0	63.0	63.0	63.0
315	54.2	51.9	51.3	51.6	53.3	51.9	52.9	53.4	53.2	50.1	50.7	52.2	56.6	60.9	60.9	60.9	60.9	60.9	60.9
400	52.0	49.6	49.1	49.4	51.2	49.7	50.8	51.3	51.0	48.0	48.6	50.1	54.4	58.7	58.7	58.7	58.7	58.7	58.7
500	49.8	47.4	46.8	47.2	48.9	47.5	48.6	49.1	48.8	45.8	46.4	47.9	52.2	56.5	56.5	56.5	56.5	56.5	56.5
630	47.5	45.0	44.5	44.9	46.6	45.2	46.4	46.9	46.6	43.6	44.2	45.7	49.9	54.2	54.2	54.2	54.2	54.2	54.2
800	45.1	42.6	42.1	42.5	44.3	42.9	44.1	44.5	44.3	41.3	41.8	43.4	47.5	51.8	51.8	51.8	51.8	51.8	51.8
1000	42.7	40.2	39.7	40.1	41.8	40.4	41.7	42.1	41.8	38.8	39.4	40.9	45.0	49.4	49.4	49.4	49.4	49.4	49.4
1250	40.1	37.6	37.1	37.6	39.2	37.9	39.1	39.5	39.3	36.3	36.8	38.3	42.4	46.8	46.8	46.8	46.8	46.8	46.8
1600	37.4	34.9	34.4	34.9	36.5	35.2	36.5	36.6	36.6	33.6	34.1	35.6	39.7	44.1	44.1	44.1	44.1	44.1	44.1
2000	34.6	32.0	31.6	32.2	33.7	32.3	33.8	34.0	33.8	30.8	31.3	32.8	36.8	41.2	41.2	41.2	41.2	41.2	41.2
2500	31.4	28.9	28.5	29.2	30.6	29.2	30.7	30.8	30.7	27.6	28.1	29.6	33.7	38.1	38.1	38.1	38.1	38.1	38.1
3150	28.0	25.6	25.2	25.9	27.1	25.8	27.3	27.3	27.3	24.2	24.7	26.2	30.3	34.7	34.7	34.7	34.7	34.7	34.7
4000	24.2	21.9	21.6	22.3	23.3	22.0	23.6	23.5	23.5	20.4	20.8	22.3	25.6	31.0	31.0	31.0	31.0	31.0	31.0
5000	20.1	17.8	17.5	18.2	19.1	17.8	19.5	19.3	19.4	16.2	16.6	18.1	22.6	27.0	27.0	27.0	27.0	27.0	27.0
6300	15.6	13.3	13.0	13.8	14.7	13.3	15.1	14.9	15.0	11.8	12.2	13.7	18.2	22.5	22.5	22.5	22.5	22.5	22.5
8000	11.3	8.7	8.7	9.6	10.6	9.3	11.3	11.2	11.2	8.1	8.6	10.0	13.8	18.0	18.0	18.0	18.0	18.0	18.0
10000	6.8	3.8	4.0	5.0	6.2	5.1	7.2	7.3	7.2	4.1	4.6	6.1	9.1	13.2	13.2	13.2	13.2	13.2	13.2
12500	2.0			.1	1.7	.6	2.8	3.1	2.9		.4	1.9	4.1	8.0	8.0	8.0	8.0	8.0	8.0
16000														2.5	2.6	2.6	2.6	2.6	2.6
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 02
AIRCRAFT CODE 705
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE G4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	59.6	57.3	55.6	55.9	57.6	56.1	57.1	57.6	57.3	54.3	54.9	56.4	60.8	65.1	65.1	65.1	65.1	65.1	65.1
250	57.4	55.1	53.5	53.8	55.5	54.0	55.0	55.5	55.3	52.2	52.8	54.3	58.7	63.0	63.0	63.0	63.0	63.0	63.0
315	55.3	52.9	51.3	51.6	53.3	51.9	52.9	53.4	53.2	50.1	50.7	52.2	56.6	60.9	60.9	60.9	60.9	60.9	60.9
400	53.1	50.7	49.1	49.4	51.2	49.7	50.6	51.3	51.0	48.0	48.6	50.1	54.4	58.7	58.7	58.7	58.7	58.7	58.7
500	50.9	48.5	46.8	47.2	48.9	47.5	48.6	49.1	48.8	45.8	46.4	47.9	52.2	56.5	56.5	56.5	56.5	56.5	56.5
630	48.6	46.1	44.5	44.9	46.6	45.2	46.4	46.9	46.6	43.6	44.2	45.7	49.9	54.2	54.2	54.2	54.2	54.2	54.2
800	46.3	43.7	42.1	42.5	44.3	42.9	44.1	44.5	44.3	41.3	41.8	43.4	47.5	51.8	51.8	51.8	51.8	51.8	51.8
1000	43.8	41.3	39.7	40.1	41.8	40.4	41.7	42.1	41.8	38.8	39.4	40.9	45.0	49.4	49.4	49.4	49.4	49.4	49.4
1250	41.2	38.7	37.1	37.6	39.2	37.9	39.1	39.5	39.3	36.3	36.8	38.3	42.4	46.8	46.8	46.8	46.8	46.8	46.8
1600	38.5	36.0	34.4	34.9	36.5	35.2	36.5	36.6	36.5	33.6	34.1	35.6	39.7	44.1	44.1	44.1	44.1	44.1	44.1
2000	35.7	33.1	31.6	32.2	33.7	32.3	33.8	34.0	33.8	30.8	31.3	32.8	36.8	41.2	41.2	41.2	41.2	41.2	41.2
2500	32.5	30.0	28.5	29.2	30.6	29.2	30.7	30.8	30.7	27.6	28.1	29.6	33.7	38.1	38.1	38.1	38.1	38.1	38.1
3150	29.1	26.7	25.2	25.9	27.1	25.8	27.3	27.3	27.3	24.2	24.7	26.2	30.3	34.7	34.7	34.7	34.7	34.7	34.7
4000	25.1	22.6	21.6	22.3	23.3	22.0	23.0	23.5	23.5	20.4	20.8	22.3	26.6	31.0	31.0	31.0	31.0	31.0	31.0
5000	20.8	18.5	17.5	18.2	19.1	17.8	19.5	19.3	19.4	16.2	16.6	18.1	22.6	27.0	27.0	27.0	27.0	27.0	27.0
6300	16.0	13.7	13.0	13.8	14.7	13.3	15.1	14.9	15.0	11.8	12.2	13.7	18.2	22.5	22.5	22.5	22.5	22.5	22.5
8000	11.6	9.0	8.7	9.6	10.6	9.3	11.3	11.2	11.2	8.1	8.6	10.0	13.8	18.0	18.0	18.0	18.0	18.0	18.0
10000	6.8	3.8	4.0	5.0	6.2	5.1	7.2	7.3	7.2	4.1	4.6	6.1	9.1	13.2	13.2	13.2	13.2	13.2	13.2
12500	2.0			.1	1.7	.6	2.8	3.1	2.9		.4	1.9	4.1	8.0	8.0	8.0	8.0	8.0	8.0
16000														2.6	2.6	2.6	2.6	2.6	2.6
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 02
AIRCRAFT CODE 705
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE J4

P=PNLT A=AL T=ALT

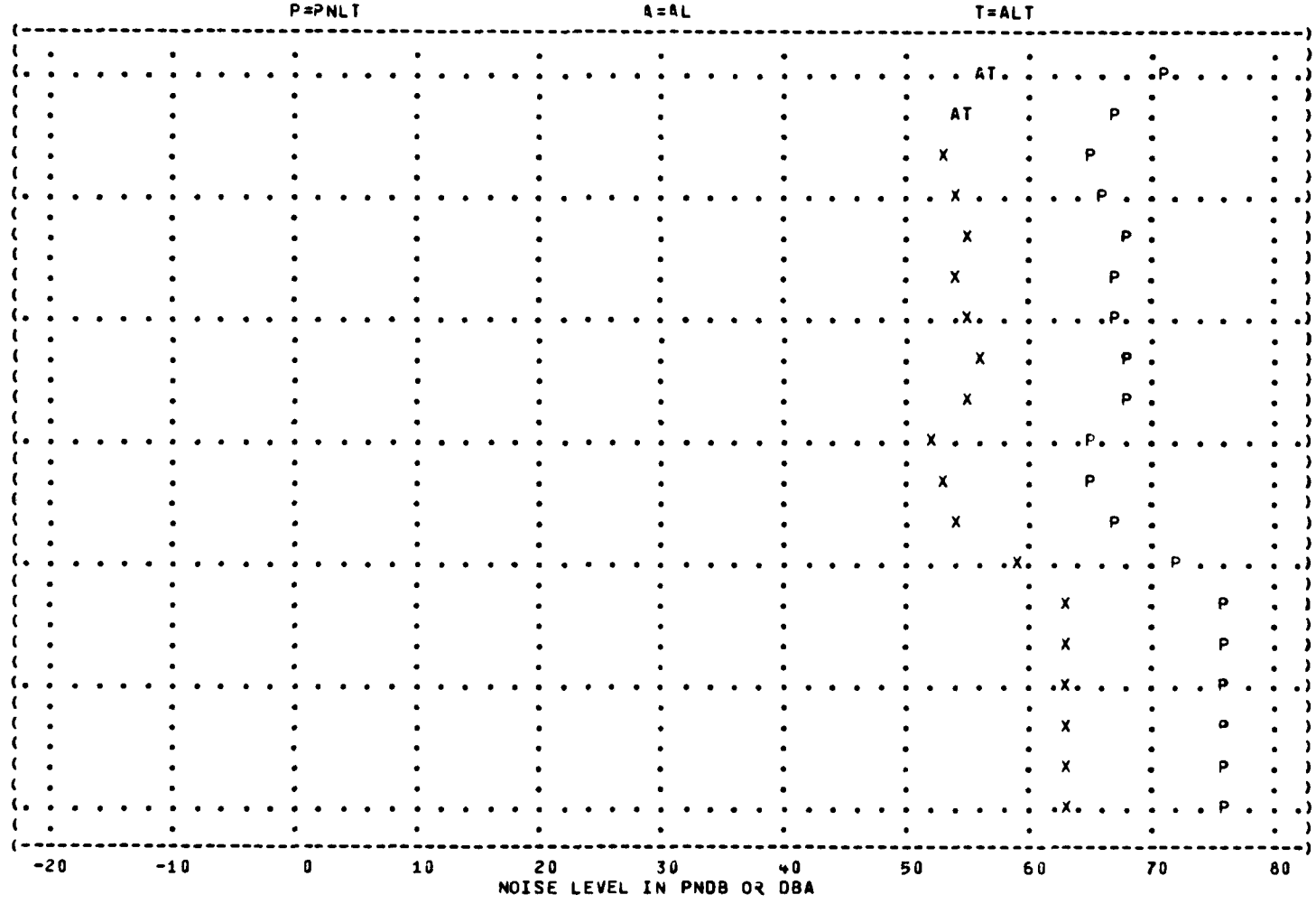


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 03
AIRCRAFT CODE 705
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE C2

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER(92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	70	69	70	70	74	74	74	75	74	73	73	72	76	78	78	78	78	78	78
63	65	66<	68<	68<	72<	65	65	69	70	69	72	74	75	71	71	71	71	71	71
80	65<	64<	66<	66<	70<	64<	64<	66	63	69	67	68	70	70	70	70	70	70	70
100	65	62<	63<	64<	69<	63<	63<	65<	66<	65	67	68	69	67	67	67	67	67	67
125	69	60<	61<	62<	67<	62<	61<	64<	63<	63<	65<	66<	68<	68<	68<	68<	68<	68<	68<
160	60	58<	58<	60<	66<	62<	60<	63<	61<	60	63	63	67	69	69	69	69	69	69
200	58<	56<	56<	58<	64<	61<	59<	62<	58<	60	65	62	69	71	71	71	71	71	71
250	56<	53<	54<	56<	62<	60<	58<	61<	56<	56	60	63	66	68	68	68	68	68	68
315	52	51	51	54<	61<	59<	57<	60<	53<	51	54	56	58	62	62	62	62	62	62
400	56	52	51	51	59<	58<	56<	59<	50<	51<	51<	51	52	56	58	58	58	58	58
500	61	62	55	59	57	57	55	58	49	50<	49<	50	49	54	54	54	54	54	54
630	60	59	56	58	56	57	55	55	50	50	47	49	49	55	55	55	55	55	55
800	60	58	57	58	57	56	56	56	52	52	49	52	51	59	59	59	59	59	59
1000	59	58	54	57	57	55	53	53	47	46	47	50	49	56	58	58	58	58	58
1250	59	57	54	56	56	55	52	52	48	48	47	51	49	56	58	58	58	58	58
1600	58	56	52	53	54	53	51	49	49	47	47	52	49	58	58	58	58	58	58
2000	52	51	50	51	49	47	48	47	45	46	46	50	47	55	55	55	55	55	55
2500	45	46	45	47	46	44	43	43	42	44	43	46	45	53	53	53	53	53	53
3150	40	40	39	40	40	40	41	46	42	46	42	45	44	51	51	51	51	51	51
4000	37	38	37	38	37	38	40	50	41	43	41	42	42	49	49	49	49	49	49
5000	39	40	37	40	37	38	39	40	41	42	41	40	42	48	48	48	48	48	48
6300	38	39	36	39	37	37	39	47	40	40	40	39	41	45	45	45	45	45	45
8000	37	37	36	38	36	36	37	44	40	40	39	40	40	44	44	44	44	44	44
10000	33	33	32	33	33	34	34	44	37	37	36	36	36	39	39	39	39	39	39
OVERALL	75	74	74	75	79	76	76	78	77	77	78	78	81	81	81	81	81	81	81

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER(92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 03
AIRCRAFT CODE 705
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE D2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	80.5	78.9	77.0	78.5	80.4	78.4	77.4	80.5	76.5	77.1	78.5	79.1	81.7	85.4	85.4	85.4	85.4	85.4	85.4
250	78.3	76.6	74.7	76.3	78.1	76.1	75.1	78.1	74.1	74.7	76.1	76.8	79.4	83.1	83.1	83.1	83.1	83.1	83.1
315	76.1	74.4	72.4	74.0	75.8	73.9	72.8	75.7	71.7	72.4	73.6	74.5	77.0	80.8	80.8	80.8	80.8	80.8	80.8
400	73.6	72.1	70.1	71.7	73.4	71.5	70.5	73.1	69.2	69.9	71.3	72.1	74.6	78.4	78.4	78.4	78.4	78.4	78.4
500	71.4	69.8	67.7	69.3	71.0	69.1	68.0	70.5	66.7	67.4	68.7	69.7	72.0	75.8	75.8	75.8	75.8	75.8	75.8
630	68.9	67.3	65.1	66.9	68.5	66.6	65.5	67.9	64.0	64.7	66.0	67.0	69.2	73.1	73.1	73.1	73.1	73.1	73.1
800	66.2	64.7	62.4	64.3	65.9	64.0	62.8	65.3	61.2	61.8	63.0	64.1	66.3	70.2	70.2	70.2	70.2	70.2	70.2
1000	63.4	62.0	59.5	61.5	63.3	61.3	59.9	62.5	58.1	58.5	59.8	61.0	63.2	67.2	67.2	67.2	67.2	67.2	67.2
1250	60.4	59.1	56.3	58.5	60.3	58.3	56.9	59.3	54.4	54.7	56.0	57.6	59.7	63.9	63.9	63.9	63.9	63.9	63.9
1600	57.2	56.1	52.8	55.3	57.0	55.1	53.4	56.0	50.3	50.7	51.7	53.7	55.6	60.3	60.3	60.3	60.3	60.3	60.3
2000	53.6	52.8	48.9	51.9	53.4	51.5	49.5	52.3	46.1	46.6	46.9	49.3	50.8	55.5	56.5	56.5	56.5	56.5	56.5
2500	49.6	48.7	44.5	47.6	48.8	46.9	44.9	47.5	41.1	41.8	41.4	44.1	45.2	52.0	52.0	52.0	52.0	52.0	52.0
3150	44.5	43.9	39.2	42.3	43.3	41.5	39.7	41.9	34.0	35.1	34.1	38.3	38.7	46.4	46.4	46.4	46.4	46.4	46.4
4000	39.7	39.1	34.6	37.2	37.1	36.2	34.3	35.3	26.8	28.1	24.4	30.4	29.3	40.5	40.5	40.5	40.5	40.5	40.5
5000	34.3	33.3	28.4	31.2	30.6	29.3	27.8	28.6	15.2	17.2	9.1	21.0	14.4	34.2	34.2	34.2	34.2	34.2	34.2
6300	27.4	26.6	19.0	23.0	21.9	20.8	18.2	19.7	3.7	7.1		6.8		24.0	24.0	24.0	24.0	24.0	24.0
8000	19.1	19.3	7.9	15.1	10.2	11.8	7.3	10.6						12.8	12.8	12.8	12.8	12.8	12.8
10000	9.9	9.3		7.1		3.5		1.6						1.6	1.6	1.6	1.6	1.6	1.6
12500	.8																		
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER(92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 8F-705-001
RUN 03
AIRCRAFT CODE 705
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	80.5	80.9	77.0	80.1	80.4	78.4	77.4	82.7	77.6	76.3	79.1	79.7	81.7	85.4	85.4	85.4	85.4	85.4	85.4
250	78.3	78.7	74.7	77.8	78.1	76.1	75.1	80.3	75.2	75.9	76.8	77.4	79.4	83.1	83.1	83.1	83.1	83.1	83.1
315	76.1	76.4	72.4	75.6	75.8	73.9	72.8	77.9	72.8	73.5	74.5	75.1	77.0	80.8	80.8	80.8	80.8	80.8	80.8
400	73.8	74.2	70.1	73.3	73.4	71.5	70.5	75.4	70.3	71.1	72.0	72.7	74.6	78.4	78.4	78.4	78.4	78.4	78.4
500	71.4	71.8	67.7	70.9	71.0	69.1	68.0	72.8	67.6	68.5	69.4	70.3	72.0	75.8	75.8	75.8	75.8	75.8	75.8
630	68.9	69.4	65.1	68.5	68.5	66.6	65.5	70.2	65.1	65.8	66.6	67.5	69.2	73.1	73.1	73.1	73.1	73.1	73.1
800	66.2	66.7	62.4	65.9	65.9	64.0	62.8	67.5	62.3	62.9	63.7	64.7	66.3	70.2	70.2	70.2	70.2	70.2	70.2
1000	63.4	64.0	59.5	63.1	63.3	61.3	59.9	64.7	59.2	59.7	60.4	61.6	63.2	67.2	67.2	67.2	67.2	67.2	67.2
1250	60.4	61.2	56.3	60.1	60.3	58.3	56.9	61.6	56.5	55.9	56.7	58.2	59.7	63.9	63.9	63.9	63.9	63.9	63.9
1600	57.2	58.1	52.8	56.9	57.0	55.1	53.4	58.2	51.4	51.9	52.3	54.2	55.6	60.3	60.3	60.3	60.3	60.3	60.3
2000	53.6	54.8	48.9	53.4	53.4	51.5	49.5	54.5	47.2	47.8	47.5	49.8	50.8	56.5	56.5	56.5	56.5	56.5	56.5
2500	49.6	50.7	44.5	49.1	48.8	46.9	44.9	49.8	42.2	43.0	42.0	44.7	45.2	52.0	52.0	52.0	52.0	52.0	52.0
3150	44.5	45.9	39.2	43.9	43.3	41.5	39.7	44.1	35.1	36.2	34.6	38.9	38.7	46.4	46.4	46.4	46.4	46.4	46.4
4000	39.7	40.7	34.6	38.4	37.1	36.2	34.3	37.1	27.7	29.1	24.9	30.8	29.3	40.5	40.5	40.5	40.5	40.5	40.5
5000	34.3	34.5	28.4	32.1	30.6	29.3	27.8	29.9	15.9	17.9	9.5	21.4	14.4	34.2	34.2	34.2	34.2	34.2	34.2
6300	27.4	27.6	19.0	23.7	21.9	20.0	18.2	20.6	4.1	7.6		7.0		24.0	24.0	24.0	24.0	24.0	24.0
8000	19.1	19.7	7.9	15.4	10.2	11.8	7.3	11.1						12.8	12.8	12.8	12.8	12.8	12.8
10000	9.9	9.3		7.1		3.5		1.6						1.6	1.6	1.6	1.6	1.6	1.6
12500	.8																		
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 03
AIRCRAFT CODE 705
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE F2

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER(92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	69.3	67.9	65.1	67.0	67.9	66.5	65.1	66.4	62.1	62.4	63.1	64.7	66.3	70.8	70.8	70.8	70.8	70.8	70.8
250	67.2	65.8	63.0	64.9	65.8	64.5	63.0	64.3	60.0	60.3	61.0	62.6	64.3	68.7	68.7	68.7	68.7	68.7	68.7
315	65.1	63.7	60.9	62.9	63.7	62.4	60.9	62.2	57.9	58.2	58.9	60.5	62.2	66.6	66.6	66.6	66.6	66.6	66.6
400	63.0	61.6	58.8	60.7	61.6	60.3	58.8	60.0	55.7	56.1	56.8	58.4	60.1	64.5	64.5	64.5	64.5	64.5	64.5
500	60.8	59.4	56.6	58.6	59.4	58.1	56.6	57.8	53.5	53.8	54.5	56.2	57.8	62.2	62.2	62.2	62.2	62.2	62.2
630	58.6	57.2	54.4	56.4	57.2	55.9	54.4	55.5	51.2	51.5	52.1	53.9	55.4	59.8	59.8	59.8	59.8	59.8	59.8
800	56.4	55.0	52.1	54.1	54.9	53.6	52.1	53.2	48.9	49.2	49.7	51.4	52.9	57.4	57.4	57.4	57.4	57.4	57.4
1000	54.0	52.7	49.8	51.8	52.5	51.3	49.7	50.8	46.4	46.7	47.1	48.9	50.2	54.8	54.8	54.8	54.8	54.8	54.8
1250	51.6	50.3	47.3	49.3	50.0	48.8	47.3	48.3	43.8	44.1	44.3	46.2	47.4	52.1	52.1	52.1	52.1	52.1	52.1
1600	49.1	47.8	44.8	46.8	47.3	46.3	44.7	45.7	41.1	41.3	41.3	43.3	44.3	49.3	49.3	49.3	49.3	49.3	49.3
2000	46.5	45.3	42.1	44.2	44.5	43.6	42.0	42.9	38.1	38.4	38.2	40.2	40.9	46.3	46.3	46.3	46.3	46.3	46.3
2500	43.7	42.5	39.3	41.4	41.5	40.6	39.0	39.9	34.9	35.2	34.7	36.9	37.3	43.0	43.0	43.0	43.0	43.0	43.0
3150	40.6	39.4	36.2	38.3	38.1	37.4	35.8	36.5	31.5	31.8	31.0	33.3	33.3	39.5	39.5	39.5	39.5	39.5	39.5
4000	37.2	35.9	32.8	34.9	34.5	33.8	32.3	32.8	27.6	28.2	26.9	29.4	29.1	35.7	35.7	35.7	35.7	35.7	35.7
5000	33.2	32.0	28.8	31.0	30.4	29.7	28.3	28.7	23.7	24.1	22.7	25.3	24.7	31.6	31.6	31.6	31.6	31.6	31.6
6300	29.0	27.7	24.6	26.7	26.1	25.4	24.0	24.4	19.3	19.7	18.2	20.8	20.2	27.2	27.2	27.2	27.2	27.2	27.2
8000	24.9	23.8	20.6	22.7	22.1	21.5	20.1	20.6	15.5	15.9	14.5	16.8	16.6	23.1	23.1	23.1	23.1	23.1	23.1
10000	20.5	19.5	16.2	18.4	17.8	17.2	15.8	16.5	11.4	11.8	10.6	12.6	12.9	18.7	18.7	18.7	18.7	18.7	18.7
12500	15.7	14.8	11.5	13.7	13.3	12.6	11.2	12.2	7.1	7.5	6.7	8.3	9.2	14.0	14.0	14.0	14.0	14.0	14.0
16000	10.5	9.7	6.3	8.6	8.5	7.7	6.2	7.5	2.8	3.0	2.8	4.1	5.6	9.3	9.3	9.3	9.3	9.3	9.3
20000	4.8	4.1	.8	3.0	3.6	2.5	1.0	2.6				.1	2.1	4.7	4.7	4.7	4.7	4.7	4.7
25000														.4	.4	.4	.4	.4	.4

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 03
AIRCRAFT CODE 705
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE G2

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER(92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	69.3	69.9	65.1	68.6	67.9	66.5	65.1	68.6	63.2	63.6	63.7	65.3	66.3	70.8	70.8	70.8	70.8	70.8	70.8
250	67.2	67.9	63.0	66.5	65.8	64.5	63.0	66.5	61.1	61.5	61.6	63.2	64.3	68.7	68.7	68.7	68.7	68.7	68.7
315	65.1	65.8	60.9	64.4	63.7	62.4	60.9	64.4	59.0	59.4	59.6	61.1	62.2	66.6	66.6	66.6	66.6	66.6	66.6
400	63.0	63.6	58.8	62.3	61.6	60.3	58.8	62.2	56.6	57.2	57.4	59.0	60.1	64.5	64.5	64.5	64.5	64.5	64.5
500	60.8	61.5	56.6	60.1	59.4	58.1	56.6	60.0	54.6	55.0	55.2	56.8	57.8	62.2	62.2	62.2	62.2	62.2	62.2
630	58.6	59.3	54.4	57.9	57.2	55.9	54.4	57.8	52.3	52.7	52.8	54.4	55.4	59.8	59.8	59.8	59.8	59.8	59.8
800	56.4	57.0	52.1	55.7	54.9	53.6	52.1	55.4	50.0	50.3	50.3	52.0	52.9	57.4	57.4	57.4	57.4	57.4	57.4
1000	54.0	54.7	49.8	53.3	52.5	51.3	49.7	53.0	47.5	47.9	47.7	49.5	50.2	54.8	54.8	54.8	54.8	54.8	54.8
1250	51.6	52.3	47.3	50.9	50.0	48.8	47.3	50.5	44.9	45.2	45.0	46.8	47.4	52.1	52.1	52.1	52.1	52.1	52.1
1600	49.1	49.9	44.8	48.4	47.3	46.3	44.7	47.9	42.2	42.5	42.0	43.9	44.3	49.3	49.3	49.3	49.3	49.3	49.3
2000	46.5	47.3	42.1	45.8	44.5	43.6	42.0	45.2	39.2	39.6	38.8	40.8	40.9	46.3	46.3	46.3	46.3	46.3	46.3
2500	43.7	44.5	39.3	43.0	41.5	40.6	39.0	42.1	36.0	36.4	35.4	37.5	37.3	43.0	43.0	43.0	43.0	43.0	43.0
3150	40.6	41.4	36.2	39.9	38.1	37.4	35.8	38.7	32.6	33.0	31.6	33.9	33.3	39.5	39.5	39.5	39.5	39.5	39.5
4000	37.2	37.6	32.8	36.1	34.5	33.8	32.3	34.6	28.7	29.1	27.4	29.9	29.1	35.7	35.7	35.7	35.7	35.7	35.7
5000	33.2	33.2	28.8	31.9	30.4	29.7	28.3	30.1	24.4	24.8	23.1	25.6	24.7	31.6	31.6	31.6	31.6	31.6	31.6
6300	29.0	28.5	24.5	27.3	26.1	25.4	24.0	25.3	19.6	20.2	18.5	21.1	20.2	27.2	27.2	27.2	27.2	27.2	27.2
8000	24.9	24.2	20.6	23.1	22.1	21.5	20.1	21.0	15.7	16.1	14.6	16.9	15.6	23.1	23.1	23.1	23.1	23.1	23.1
10000	20.5	19.5	16.2	18.4	17.8	17.2	15.8	16.5	11.4	11.8	10.6	12.6	12.9	18.7	18.7	18.7	18.7	18.7	18.7
12500	15.7	14.8	11.5	13.7	13.3	12.6	11.2	12.2	7.1	7.5	6.7	8.3	8.2	14.0	14.0	14.0	14.0	14.0	14.0
16000	10.5	9.7	6.3	8.6	8.5	7.7	6.2	7.5	2.8	3.0	2.8	4.1	5.6	9.3	9.3	9.3	9.3	9.3	9.3
20000	4.8	4.1	.8	3.0	3.6	2.5	1.0	2.6				.1	2.1	4.7	4.7	4.7	4.7	4.7	4.7
25000														.4	.4	.4	.4	.4	.4

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER(92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 03
AIRCRAFT CODE 705
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE J2

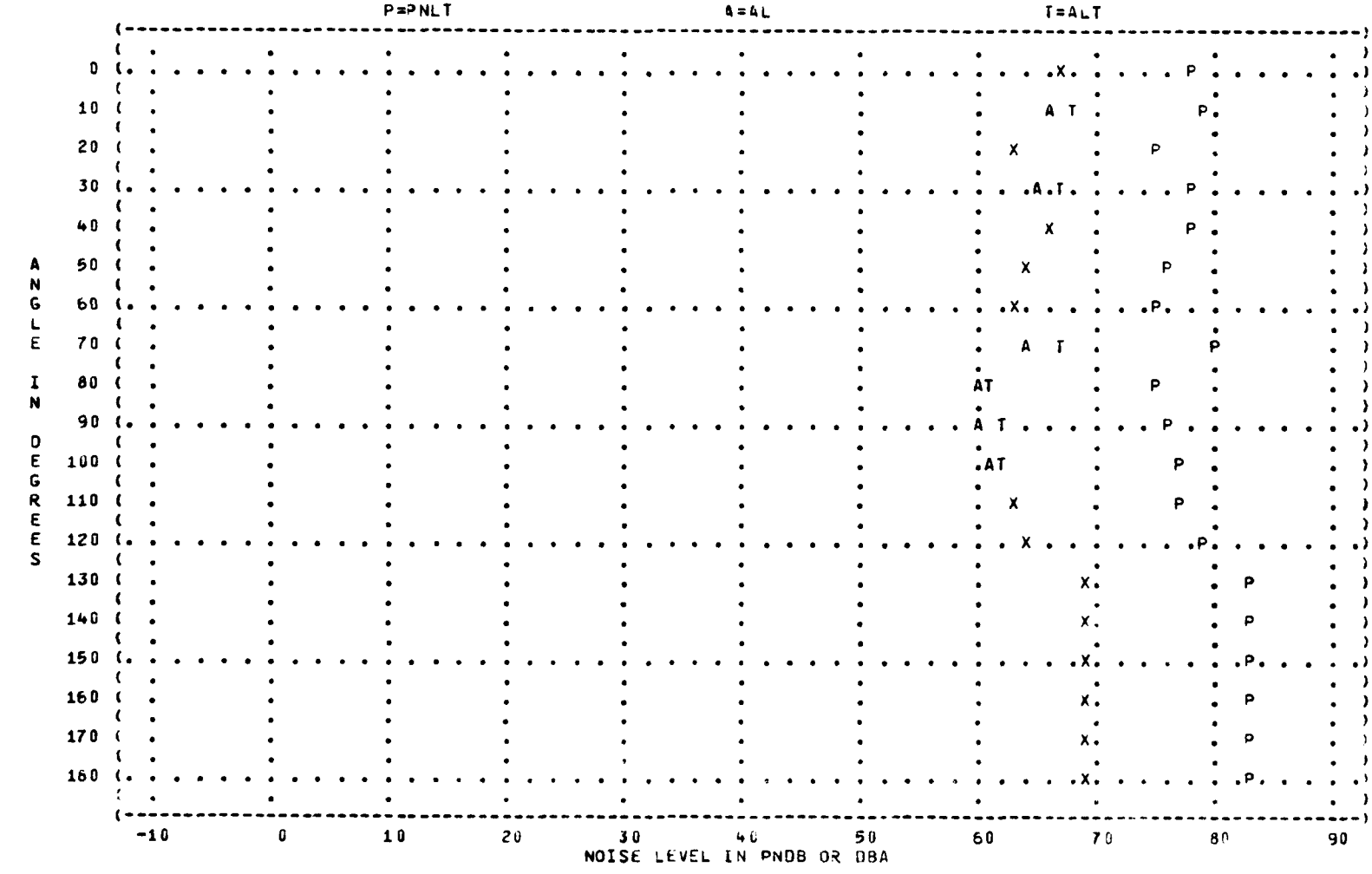


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 04
AIRCRAFT CODE 705
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE C1

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	80	80	83	82	84	84	85	87	84	81	83	89	92	95	95	95	95	95	95
63	80	77	76	78	78	79	82	82	82	82	81	84	85	90	90	90	90	90	90
80	76	75	75	74	75	72	77	77	77	79	82	86	82	84	84	84	84	84	84
100	79	75	72	72	72	69	75	72	73	77	77	79	78	81	81	81	81	81	81
125	76	73	69	67	68	65	71	69	69	72	72	72	72	74	74	74	74	74	74
160	71	66	64	65	64	64	67	66	66	69	72	72	70	72	72	72	72	72	72
200	64	62	62	63	61	61	64	63	63	66	70	74	71	72	72	72	72	72	72
250	62	60	61	61	60	57	62	62	62	65	68	72	73	72	72	72	72	72	72
315	59	58	58	57	54	53	55	57	58	61	62	64	65	67	67	67	67	67	67
400	60	58	57	58	54	51	52	54	55	57	58	61	61	62	62	62	62	62	62
500	61	60	59	60	58	57	55	57	55	55	56	60	58	61	61	61	61	61	61
630	60	59	57	58	56	58	55	57	56	55	55	59	56	60	60	60	60	60	60
800	59	58	56	57	56	56	56	57	55	56	56	61	58	60	60	60	60	60	60
1000	60	59	56	58	57	57	55	55	55	54	55	62	58	59	59	59	59	59	59
1250	62	62	59	60	60	59	56	57	56	55	55	64	58	60	60	60	60	60	60
1600	62	61	58	59	59	58	56	54	56	54	54	64	56	58	58	58	58	58	58
2000	58	57	56	57	55	54	54	52	54	52	52	61	54	55	55	55	55	55	55
2500	51	51	52	53	54	51	50	48	50	49	49	56	51	52	52	52	52	52	52
3150	48	46	46	48	47	47	48	49	50	49	49	52	50	51	51	51	51	51	51
4000	45	44	44	46	43	44	46	48	49	48	47	49	49	50	50	50	50	50	50
5000	47	46	44	46	44	43	45	47	48	48	48	48	47	48	48	48	48	48	48
6300	45	45	43	45	43	43	43	46	47	46	46	46	47	47	47	47	47	47	47
8000	44	43	42	44	42	40	42	46	46	46	46	46	47	47	47	47	47	47	47
10000	39	39	37	39	39	37	39	43	44	43	45	43	46	46	46	46	46	46	46
OVERALL	86	84	85	84	86	86	88	89	87	86	88	92	93	97	97	97	97	97	97

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 04
AIRCRAFT CODE 705
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE D1

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	88.2	85.7	85.1	84.9	85.6	85.0	86.6	87.7	86.4	86.6	88.0	92.7	92.6	95.0	95.0	95.0	95.0	95.0	95.0
250	85.9	83.3	82.5	82.4	83.0	82.4	84.0	85.1	83.8	84.1	85.6	90.3	90.5	92.9	92.9	92.9	92.9	92.9	92.9
315	83.5	80.9	80.0	79.8	80.5	79.9	81.5	82.5	81.2	81.7	83.1	87.7	88.0	90.7	90.7	90.7	90.7	90.7	90.7
400	81.1	78.6	77.4	77.5	77.9	77.3	78.8	79.9	78.7	79.2	80.7	85.2	85.4	88.5	88.5	88.5	88.5	88.5	88.5
500	78.6	76.1	74.8	75.0	75.2	74.6	76.2	77.2	76.1	76.7	78.1	82.7	82.7	85.8	85.8	85.8	85.8	85.8	85.8
630	76.0	73.6	72.1	72.5	72.5	71.9	73.5	74.4	73.4	74.1	75.5	80.1	79.9	83.0	83.0	83.0	83.0	83.0	83.0
800	73.2	71.0	69.3	69.9	69.7	69.1	70.8	71.6	70.6	71.2	72.8	77.5	77.0	80.2	80.2	80.2	80.2	80.2	80.2
1000	70.1	68.2	66.4	67.1	66.8	66.2	67.9	68.7	67.7	68.1	70.0	74.7	74.1	77.3	77.3	77.3	77.3	77.3	77.3
1250	66.9	65.3	63.4	64.1	63.8	63.1	64.9	65.5	64.6	65.0	66.6	71.4	71.0	74.2	74.2	74.2	74.2	74.2	74.2
1600	63.6	62.0	60.0	60.8	60.4	59.6	61.1	62.1	60.8	61.1	62.8	67.7	67.8	71.0	71.0	71.0	71.0	71.0	71.0
2000	60.0	58.2	56.3	56.9	56.6	55.4	56.7	57.7	56.4	56.6	58.5	63.7	63.5	66.7	66.7	66.7	66.7	66.7	66.7
2500	55.8	54.0	51.7	52.6	52.3	50.9	51.3	52.6	50.9	50.8	53.3	59.0	58.5	61.9	61.9	61.9	61.9	61.9	61.9
3150	50.9	49.0	46.4	47.2	46.9	45.5	45.2	46.0	44.9	45.0	46.6	54.2	52.7	56.2	56.2	56.2	56.2	56.2	56.2
4000	44.6	42.2	39.2	40.2	39.7	38.5	38.2	38.7	38.2	39.1	40.2	48.3	45.5	49.7	49.7	49.7	49.7	49.7	49.7
5000	37.7	35.8	33.0	34.1	33.6	32.2	28.7	31.1	28.5	29.1	31.3	41.5	36.7	41.1	41.1	41.1	41.1	41.1	41.1
6300	30.4	28.7	24.1	25.7	24.9	23.4	20.3	21.3	19.2	18.8	19.4	33.1	25.8	31.1	31.1	31.1	31.1	31.1	31.1
8000	21.4	20.3	11.8	17.5	10.7	12.6	6.8	12.2	9.9	6.4	6.8	22.8	13.4	23.0	23.0	23.0	23.0	23.0	23.0
10000	9.9	7.2		9.4		1.8		3.2	.6			7.0	1.0	11.7	11.7	11.7	11.7	11.7	11.7
12500				1.2										.4	.4	.4	.4	.4	.4
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 04
AIRCRAFT CODE 705
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	88.2	85.7	85.1	84.9	85.6	86.0	86.6	87.7	86.4	86.6	88.0	92.7	93.4	95.0	95.0	95.0	95.0	95.0	95.0
250	85.9	83.3	82.5	82.4	83.0	83.5	84.0	85.1	83.6	84.1	85.6	90.3	91.3	92.9	92.9	92.9	92.9	92.9	92.9
315	83.5	80.9	80.0	79.8	80.5	80.9	81.5	82.5	81.2	81.7	83.1	87.7	88.9	90.7	90.7	90.7	90.7	90.7	90.7
400	81.1	78.6	77.4	77.5	77.9	78.3	78.8	79.9	78.7	79.2	80.7	85.2	86.2	86.5	88.5	88.5	88.5	88.5	88.5
500	78.6	76.1	74.8	75.0	75.2	75.7	76.2	77.2	76.1	76.7	78.1	82.7	83.5	85.8	85.8	85.8	85.8	85.8	85.8
630	76.0	73.6	72.1	72.5	72.5	72.9	73.5	74.4	73.4	74.1	75.5	80.1	80.7	83.0	83.0	83.0	83.0	83.0	83.0
800	73.2	71.0	69.3	69.9	69.7	70.1	70.8	71.6	70.6	71.2	72.8	77.5	77.9	80.2	80.2	80.2	80.2	80.2	80.2
1000	70.1	68.2	66.4	67.1	66.8	67.2	67.9	68.7	67.7	68.1	70.0	74.7	75.0	77.3	77.3	77.3	77.3	77.3	77.3
1250	66.9	65.3	63.4	64.1	63.8	64.1	64.9	65.5	64.6	65.0	66.6	71.4	71.9	74.2	74.2	74.2	74.2	74.2	74.2
1600	63.6	62.0	60.0	60.8	60.4	60.7	61.1	62.1	60.8	61.1	62.8	67.7	68.0	71.0	71.0	71.0	71.0	71.0	71.0
2000	60.0	58.2	56.3	56.9	56.6	56.5	56.7	57.7	56.4	56.6	58.5	63.7	64.3	66.7	66.7	66.7	66.7	66.7	66.7
2500	55.6	54.0	51.7	52.6	52.3	51.9	51.3	52.6	50.9	50.8	53.3	59.0	59.3	61.9	61.9	61.9	61.9	61.9	61.9
3150	50.9	49.0	46.4	47.2	46.9	46.3	45.2	46.6	44.9	45.0	48.6	54.2	53.5	56.2	56.2	56.2	56.2	56.2	56.2
4000	44.6	42.2	39.2	40.2	39.7	39.3	38.2	38.7	38.2	38.1	40.2	48.3	46.2	49.7	49.7	49.7	49.7	49.7	49.7
5000	37.7	35.8	33.0	34.1	33.6	32.8	28.7	31.1	28.5	29.1	31.3	41.5	37.2	41.1	41.1	41.1	41.1	41.1	41.1
6300	30.4	23.7	24.1	25.7	24.9	23.8	20.3	21.3	19.2	18.8	19.4	33.1	26.2	31.1	31.1	31.1	31.1	31.1	31.1
8000	21.4	20.3	11.8	17.5	10.7	12.8	6.8	12.2	9.9	8.4	6.8	22.8	13.6	23.0	23.0	23.0	23.0	23.0	23.0
10000	9.9	7.2		9.4		1.8		3.2	.6			7.0	1.0	11.7	11.7	11.7	11.7	11.7	11.7
12500				1.2										.4	.4	.4	.4	.4	.4
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 04
AIRCRAFT CODE 705
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE F1

DISTANCE	ANGLE (DEGREES)																		
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	73.0	71.5	69.6	70.3	69.9	69.0	69.1	69.1	68.9	69.5	70.8	75.6	73.3	75.2	75.2	75.2	75.2	75.2	75.2
250	70.9	69.5	67.6	68.2	67.8	66.9	67.0	67.0	66.8	67.5	68.7	73.5	71.2	73.1	73.1	73.1	73.1	73.1	73.1
315	68.8	67.4	65.4	66.1	65.7	64.8	65.0	64.9	64.7	65.4	66.7	71.4	69.2	71.1	71.1	71.1	71.1	71.1	71.1
400	66.7	65.2	63.3	63.9	63.5	62.6	62.8	62.8	62.5	63.3	64.6	69.3	67.1	69.0	69.0	69.0	69.0	69.0	69.0
500	64.5	63.0	61.1	61.7	61.3	60.5	60.7	60.7	60.3	61.1	62.4	67.1	64.9	66.9	66.9	66.9	66.9	66.9	66.9
630	62.2	60.6	58.8	59.5	59.1	58.2	58.4	58.4	58.1	58.8	60.1	64.8	62.6	64.6	64.6	64.6	64.6	64.6	64.6
800	59.9	58.4	56.5	57.1	56.7	55.9	56.1	56.1	55.8	56.5	57.7	62.5	60.3	62.4	62.4	62.4	62.4	62.4	62.4
1000	57.4	56.0	54.1	54.7	54.3	53.5	53.7	53.8	53.4	54.0	55.2	60.0	57.9	60.0	60.0	60.0	60.0	60.0	60.0
1250	54.8	53.5	51.6	52.2	51.8	51.1	51.1	51.3	50.8	51.3	52.4	57.3	55.2	57.5	57.5	57.5	57.5	57.5	57.5
1600	52.0	50.6	48.9	49.5	49.1	48.4	48.3	48.6	48.0	48.3	49.5	54.5	52.4	54.7	54.7	54.7	54.7	54.7	54.7
2000	49.1	47.9	46.0	46.7	46.2	45.6	45.2	45.6	44.9	45.2	46.2	51.4	49.2	51.5	51.5	51.5	51.5	51.5	51.5
2500	46.0	44.9	42.9	43.6	43.1	42.5	41.8	42.4	41.6	41.7	42.7	48.0	45.7	48.0	48.0	48.0	48.0	48.0	48.0
3150	42.6	41.5	39.5	40.2	39.7	39.2	38.2	38.9	38.0	38.0	38.9	44.4	41.8	44.2	44.2	44.2	44.2	44.2	44.2
4000	38.8	37.9	35.7	36.5	36.0	35.6	34.3	35.1	34.1	34.0	34.7	40.5	37.7	40.0	40.0	40.0	40.0	40.0	40.0
5000	34.7	33.8	31.6	32.5	31.9	31.5	30.2	30.9	29.9	29.8	30.5	36.3	33.3	35.5	35.6	35.6	35.6	35.6	35.6
6300	30.3	29.4	27.1	28.0	27.4	27.1	25.7	26.5	25.4	25.3	26.0	31.8	28.7	31.1	31.1	31.1	31.1	31.1	31.1
8000	26.2	25.2	23.0	23.9	23.2	23.0	21.9	22.8	21.6	21.6	22.4	27.7	25.3	27.7	27.7	27.7	27.7	27.7	27.7
10000	21.8	20.7	18.7	19.6	18.8	18.7	18.0	19.0	17.7	17.8	18.8	23.6	21.9	24.4	24.4	24.4	24.4	24.4	24.4
12500	17.2	16.0	14.3	15.0	14.3	14.2	14.2	15.1	13.9	14.0	15.1	19.5	18.5	21.2	21.2	21.2	21.2	21.2	21.2
16000	12.7	11.3	10.0	10.4	9.9	9.9	10.0	11.4	10.2	10.4	11.6	15.7	15.4	18.2	18.2	18.2	18.2	18.2	18.2
20000	8.4	6.7	5.8	6.0	6.0	5.9	7.4	8.1	6.9	7.0	8.3	12.3	12.4	15.3	15.3	15.3	15.3	15.3	15.3
25000	4.4	2.5	2.1	2.0	2.6	2.4	4.4	5.0	3.8	3.9	5.1	9.2	9.6	12.5	12.6	12.6	12.6	12.6	12.6

TABLE: TUNE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 04
AIRCRAFT CODE 705
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE G1

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	73.0	71.5	69.6	70.3	69.9	70.0	69.1	69.1	68.9	69.5	70.6	75.6	74.1	75.2	75.2	75.2	75.2	75.2	75.2
250	70.9	69.5	67.5	68.2	67.8	67.9	67.0	67.0	66.8	67.5	68.7	73.5	72.0	73.1	73.1	73.1	73.1	73.1	73.1
315	68.8	67.4	65.4	66.1	65.7	65.8	65.0	64.9	64.7	65.4	66.7	71.4	70.0	71.1	71.1	71.1	71.1	71.1	71.1
400	66.7	65.2	63.3	63.9	63.5	63.7	62.8	62.8	62.5	63.3	64.6	69.3	67.9	69.0	69.0	69.0	69.0	69.0	69.0
500	64.5	63.0	61.1	61.7	61.3	61.5	60.7	60.7	60.3	61.1	62.4	67.1	65.7	66.9	66.9	66.9	66.9	66.9	66.9
630	62.2	60.6	58.8	59.5	59.1	59.3	58.4	58.4	58.1	58.8	60.1	64.8	63.5	64.6	64.6	64.6	64.6	64.6	64.6
800	59.9	58.4	56.5	57.1	56.7	57.0	56.1	56.1	55.8	56.5	57.7	62.5	61.1	62.4	62.4	62.4	62.4	62.4	62.4
1000	57.4	56.0	54.1	54.7	54.3	54.6	53.7	53.8	53.4	54.0	55.2	60.0	58.7	60.0	60.0	60.0	60.0	60.0	60.0
1250	54.8	53.5	51.6	52.2	51.8	52.1	51.1	51.3	50.8	51.3	52.4	57.3	56.0	57.5	57.5	57.5	57.5	57.5	57.5
1600	52.0	50.8	48.9	49.5	49.1	49.5	48.3	48.6	48.0	48.3	49.5	54.5	53.2	54.7	54.7	54.7	54.7	54.7	54.7
2000	49.1	47.9	46.0	46.7	46.2	46.6	45.2	45.6	44.9	45.2	46.2	51.4	50.0	51.5	51.5	51.5	51.5	51.5	51.5
2500	46.0	44.9	42.9	43.6	43.1	43.6	41.8	42.4	41.6	41.7	42.7	48.0	46.5	48.0	48.0	48.0	48.0	48.0	48.0
3150	42.6	41.5	39.5	40.2	39.7	40.3	38.2	38.9	38.0	38.0	38.9	44.4	42.7	44.2	44.2	44.2	44.2	44.2	44.2
4000	38.8	37.9	35.7	36.5	36.0	36.4	34.3	35.1	34.1	34.0	34.7	40.5	38.3	40.0	40.0	40.0	40.0	40.0	40.0
5000	34.7	33.8	31.6	32.5	31.9	32.1	30.2	30.9	29.9	29.8	30.5	36.3	33.8	35.5	35.6	35.6	35.6	35.5	35.6
6300	30.3	29.4	27.1	28.0	27.4	27.5	25.7	26.5	25.4	25.3	26.0	31.8	29.1	31.1	31.1	31.1	31.1	31.1	31.1
8000	26.2	25.2	23.0	23.9	23.2	23.2	21.9	22.6	21.6	21.6	22.4	27.7	25.5	27.7	27.7	27.7	27.7	27.7	27.7
10000	21.8	20.7	18.7	19.6	18.8	18.7	18.0	19.0	17.7	17.6	18.8	23.6	21.9	24.4	24.4	24.4	24.4	24.4	24.4
12500	17.2	16.0	14.3	15.0	14.3	14.2	14.2	15.1	13.9	14.0	15.1	19.5	18.5	21.2	21.2	21.2	21.2	21.2	21.2
16000	12.7	11.3	10.0	10.4	9.9	9.9	10.5	11.4	10.2	10.4	11.6	15.7	15.4	15.2	18.2	18.2	18.2	18.2	18.2
20000	8.4	6.7	5.8	6.0	6.0	5.9	7.4	8.1	6.9	7.0	8.3	12.3	12.4	15.3	15.3	15.3	15.3	15.3	15.3
25000	4.4	2.5	2.1	2.0	2.6	2.4	4.4	5.0	3.6	3.9	5.1	9.2	9.6	12.5	12.6	12.6	12.6	12.6	12.6

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

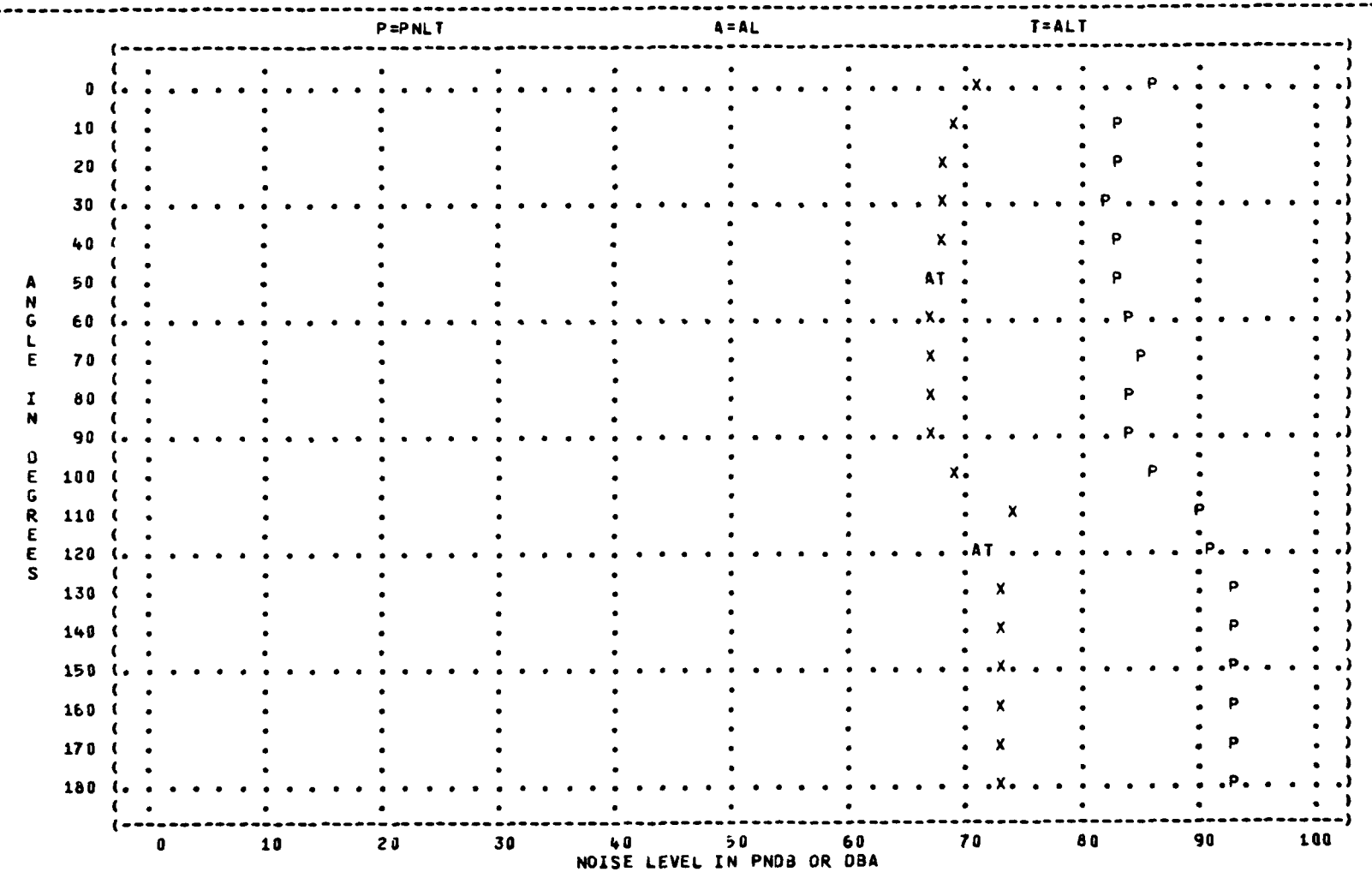
NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (92%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 04
AIRCRAFT CODE 705
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE J1

P=PNLT A=AL T=ALT



NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(F-105 A/C)

DURING GROUND RUN-UP OPERATIONS

TEST 9F-706-001
AIRCRAFT CODE: 706
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 3.2

Power Setting	Page
Engine Runup, 90% RPM	83
Military Power, 103% RPM	89
Afterburner Power, 103% RPM	95

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-705-001
RUN 01
AIRCRAFT CODE 706
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE C3

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
90%RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	64	63	62	61	64	65	65	68	65	65	66	66	67	67	71	73	75	71	72
63	62	60	60	61	62	64	64	65	62	63	64	65	65	66	63	64	69	66	71
80	63	59	60	60	62	62	59	62	62	65	62	65	63	63	60	61	62	60	60
100	67	68	62	62	61	60	62	60	61	64	66	65	63	63	64	63	65	64	66
125	65	61	59	58	61	62	62	61	56	59	60	59	61	61	59	61	59	59	58
160	66	59	58	58	58	62	60	57	55	57	56	57	53	58	57	60	57	57	59
200	62	62	61	53	55	61	58	53	52	55	57	58	55	55	56	56	53	55	53
250	60	59	62	55	57	63	57	54	49	51	53	56	53	53	55	57	52	53	54
315	56	54	53	49	50	56	52	48	44	47	56	52	48	48	51	50	49	48	51
400	54	53	50	48	46	53	46	43	41	45	46	50	46	46	48	46	47	48	51
500	52	49	49	46	47	52	45	42	40	42	39	47	46	46	46	46	46	47	48
630	50	47	45	45	48	51	43	43	42	43	41	48	44	44	44	47	47	46	46
800	50	46	44	43	47	49	44	43	42	43	42	48	45	45	45	46	47	48	47
1000	48	45	43	44	44	45	41	40	39	40	41	46	45	45	48	45	52	47	48
1250	47	45	43	44	44	44	41	39	38	40	40	46	44	44	50	46	52	48	46
1600	48	47	45	45	44	44	42	39	39	39	39	47	43	43	46	45	48	45	45
2000	54	53	54	53	51	49	48	44	43	44	43	47	44	44	45	44	46	45	45
2500	51	50	50	50	49	48	46	42	41	41	40	44	44	44	47	41	42	44	43
3150	55	54	50	50	50	53	50	45	43	42	42	45	45	45	45	39	42	44	43
4000	52	49	45	44	43	45	42	40	40	39	36	40	40	40	41	37	41	43	42
5000	52	45	43	42	42	43	40	39	39	37	35	38	37	37	39	37	39	40	42
6300	52	46	42	42	42	43	40	38	39	38	34	37	36	36	39	35	39	39	41
8000	53	45	41	41	41	41	39	36	37	37	34	36	35	36	35	33	40	40	41
10000	53	45	40	40	40	41	39	34	35	33	31	35	33	33	39	30	39	40	41
OVERALL	74	72	70	69	70	72	71	72	70	71	72	72	72	72	73	75	76	74	76

TABLE: PERCEIVED NOISE LEVEL (PND9)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
90%RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-706-001
RUN 01
AIRCRAFT CODE 706
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	82.8	80.1	78.0	76.8	77.1	79.4	76.5	73.4	71.8	72.5	73.9	74.9	73.9	73.3	75.2	73.6	75.3	74.5	75.4
250	80.4	77.8	75.7	74.4	74.8	77.0	74.1	71.0	69.4	70.0	71.5	72.6	71.6	71.0	72.9	71.3	72.8	72.1	72.9
315	78.0	75.4	73.4	72.1	72.4	74.7	71.7	68.7	67.0	67.6	69.1	70.2	69.2	69.2	70.6	69.0	70.3	69.7	70.5
400	75.5	72.9	71.0	69.6	69.9	72.2	69.2	66.2	64.4	65.1	66.6	67.8	66.7	66.7	68.1	66.6	67.7	67.3	68.0
500	72.8	70.2	68.4	67.1	67.3	69.6	66.6	63.5	61.7	62.4	64.0	65.2	64.1	64.1	65.6	64.1	65.3	64.7	65.4
630	70.0	67.5	65.8	64.4	64.5	66.8	63.7	60.5	58.7	59.6	61.2	62.4	61.3	61.3	62.6	61.3	62.6	61.9	62.7
800	67.0	64.5	62.9	61.4	61.4	63.9	60.7	57.3	55.5	56.4	58.0	59.5	58.2	58.2	59.6	58.2	59.7	58.7	59.6
1000	63.8	61.2	59.8	58.2	58.0	60.6	57.3	53.9	51.9	52.6	54.5	56.4	54.8	54.8	56.6	54.7	56.6	55.2	56.0
1250	60.2	57.5	56.4	54.9	54.4	57.1	53.6	50.0	47.8	48.6	50.8	52.7	50.8	50.8	53.0	50.8	53.1	51.5	52.3
1600	56.1	53.5	52.6	51.1	50.4	52.9	49.2	45.4	43.0	44.1	46.6	48.6	46.5	46.5	48.9	46.7	49.2	47.3	48.5
2000	51.5	49.1	48.5	46.7	45.9	48.3	44.0	39.8	37.1	38.7	41.2	43.8	41.3	41.3	43.9	42.1	44.9	42.5	44.3
2500	46.4	44.0	43.2	41.0	40.4	42.6	37.6	32.4	27.8	32.2	35.3	38.4	35.1	35.1	38.5	36.7	39.5	37.0	38.3
3150	40.4	37.7	37.1	34.7	33.9	36.3	29.7	21.9	18.2	20.7	25.4	30.9	26.3	26.3	31.7	28.0	33.2	29.5	30.6
4000	32.6	29.3	28.4	26.4	24.1	27.8	16.5	11.5	8.7	9.3	11.2	22.3	12.7	12.7	23.0	19.6	25.5	21.1	20.6
5000	21.1	15.8	15.1	13.3	9.3	15.0	3.4	1.0				7.4			7.5	3.2	13.8	7.3	10.5
6300	9.6	2.4	1.8	.3		2.1											2.1		.4
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
90%RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-706-001
RUN 01
AIRCRAFT CODE 706
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	84.4	81.8	80.4	78.8	78.6	81.6	78.6	74.9	73.0	73.7	75.1	75.4	75.1	75.1	78.7	74.3	78.0	75.1	76.4
250	82.1	79.4	78.1	76.5	76.3	79.3	76.3	72.6	70.6	71.3	72.7	73.1	72.7	72.7	74.4	72.0	73.5	72.8	74.0
315	79.7	77.0	75.7	74.1	73.9	76.9	73.8	70.2	68.2	68.8	70.3	70.7	70.4	70.4	72.1	69.6	70.9	70.4	71.5
400	77.1	74.5	73.3	71.7	71.4	74.4	71.4	67.7	65.8	66.3	67.8	68.3	67.9	67.9	69.7	67.3	68.4	67.9	69.1
500	74.5	71.9	70.8	69.1	68.8	71.8	68.7	65.0	62.9	63.6	65.1	65.7	65.3	65.3	67.1	64.7	65.9	65.3	66.5
630	71.6	69.1	68.1	66.4	66.0	69.1	65.8	62.0	59.9	60.8	62.4	63.0	62.4	62.4	64.3	61.9	63.2	62.5	63.8
800	68.7	66.1	65.2	63.5	62.9	66.1	62.8	58.8	56.7	57.8	59.2	60.0	59.3	59.3	61.3	58.8	60.4	59.4	60.7
1000	65.4	62.9	62.1	60.2	59.5	62.8	59.4	55.4	53.1	53.8	55.7	56.9	55.9	55.9	58.2	55.4	57.2	55.9	57.0
1250	61.8	59.2	58.8	56.9	55.9	59.3	55.7	51.5	49.0	49.8	52.0	53.2	51.9	51.9	54.5	51.4	53.8	52.1	53.4
1600	57.7	55.2	55.0	53.1	51.9	55.2	51.3	46.9	44.2	45.3	47.8	49.1	47.7	47.7	50.4	47.4	49.9	48.0	49.6
2000	53.2	50.6	50.8	48.8	47.4	50.5	46.1	41.3	38.3	39.9	42.4	44.3	42.5	42.5	45.5	42.8	45.6	43.2	45.4
2500	48.1	45.7	45.6	43.0	41.9	44.8	39.8	33.9	29.0	33.4	36.5	38.9	36.3	36.3	40.0	37.4	40.1	37.6	39.4
3150	42.0	39.3	39.5	36.8	35.4	38.5	31.8	23.4	19.4	21.9	26.5	31.4	27.5	27.5	33.2	29.7	33.9	30.1	31.7
4000	33.9	30.7	30.3	28.0	25.3	29.6	18.2	12.7	9.7	10.3	12.1	22.7	13.7	13.7	24.2	16.1	26.1	21.6	21.4
5000	22.1	16.8	16.5	14.5	10.2	16.3	4.7	1.9				7.8			8.4	3.6	14.2	7.6	11.2
6300	10.3	3.0	2.7	1.1		3.0											2.4		.9
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-706-001
RUN 01
AIRCRAFT CODE 706
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE F3

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
90%RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.0	64.4	63.4	61.9	61.7	63.9	60.0	57.8	56.3	57.3	58.5	60.0	59.9	58.9	60.9	59.6	61.4	60.1	60.4
250	64.7	62.3	61.3	59.7	59.5	61.8	58.4	55.6	54.1	55.2	56.5	56.5	55.8	56.5	58.7	57.6	59.3	57.9	58.3
315	62.4	60.0	59.1	57.5	57.3	59.0	56.2	53.5	51.9	53.1	54.4	56.4	54.6	54.5	56.6	55.5	57.2	55.8	56.2
400	60.0	57.7	56.8	55.2	55.0	57.4	54.0	51.3	49.7	50.9	52.3	54.3	52.6	52.5	54.4	53.3	55.0	53.6	54.0
500	57.5	55.4	54.5	52.8	52.7	55.1	51.8	49.0	47.4	48.6	50.1	52.0	50.2	50.2	52.1	51.1	52.8	51.3	51.7
630	54.9	52.9	52.1	50.4	50.2	52.7	49.2	46.5	44.9	46.3	47.8	49.7	47.9	47.9	49.8	48.8	50.6	49.0	49.4
800	52.3	50.3	49.5	47.8	47.7	50.1	46.8	44.0	42.4	43.8	45.4	47.3	45.4	45.4	47.4	46.3	48.2	46.5	47.0
1000	49.5	47.6	46.8	45.1	45.0	47.5	43.9	41.4	39.8	41.2	42.9	44.8	42.9	42.9	44.8	43.8	45.8	44.1	44.5
1250	46.6	44.7	43.9	42.3	42.2	44.7	40.9	38.6	36.9	38.4	40.0	42.1	40.1	40.1	42.1	41.1	43.2	41.4	42.0
1600	43.5	41.6	40.8	39.3	39.2	41.7	37.8	35.5	33.9	35.4	36.9	39.2	37.2	37.2	39.3	38.3	40.5	38.7	39.2
2000	40.3	38.4	37.6	36.0	36.1	38.6	34.9	32.3	30.7	32.2	33.5	36.2	34.2	34.2	36.3	35.3	37.7	35.8	36.2
2500	36.8	34.8	34.0	32.5	32.7	35.1	30.8	28.8	27.2	28.7	29.8	33.0	30.9	30.9	33.0	32.0	34.6	32.6	33.0
3150	33.0	30.8	30.0	28.7	29.1	31.4	26.9	25.0	23.5	24.9	25.8	29.5	27.3	27.3	29.5	28.4	31.2	29.3	29.4
4000	28.9	26.6	25.7	24.5	25.1	27.4	22.6	21.0	19.5	20.8	21.4	25.6	23.4	23.4	25.7	24.5	27.6	25.6	25.6
5000	24.5	22.0	21.0	19.9	20.8	23.0	18.1	16.7	15.2	16.5	16.8	21.5	19.3	19.3	21.6	20.3	23.7	21.5	21.4
6300	19.8	17.2	16.1	15.1	16.2	18.5	13.4	12.1	10.7	12.0	12.1	17.9	14.9	14.9	17.2	15.9	19.3	17.2	17.0
8000	15.9	13.2	11.9	10.6	12.1	14.8	9.5	8.4	6.8	8.3	8.5	13.1	10.9	10.9	12.8	12.0	15.1	13.2	13.1
10000	11.7	9.1	7.8	6.1	7.9	10.9	5.6	4.5	2.9	4.4	4.9	8.9	6.8	6.8	8.3	7.9	10.5	8.9	9.0
12500	7.5	4.9	3.7	1.6	3.5	6.8	1.6	.6		.5	1.3	4.9	2.6	2.6	3.6	3.8	5.7	4.4	4.8
16000	3.1	.7				2.4						.0					1.0		.6
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-706-001
RUN 01
AIRCRAFT CODE 706
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE G3

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
90%RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	68.7	66.1	65.8	63.9	63.2	66.1	62.7	59.3	57.5	58.5	59.7	61.2	60.0	60.0	62.4	60.3	62.1	60.7	61.5
250	66.4	63.9	63.6	61.7	61.0	64.0	60.6	57.1	55.3	56.4	57.7	59.1	57.5	57.9	60.2	58.2	60.0	58.6	59.4
315	64.0	61.7	61.4	59.5	58.8	61.8	58.4	55.0	53.1	54.3	55.6	56.9	55.8	55.8	58.1	56.1	57.9	56.4	57.2
400	61.6	59.4	59.2	57.2	56.5	59.6	56.1	52.8	50.9	52.1	53.5	54.8	53.6	53.6	55.9	54.0	55.7	54.2	55.1
500	59.1	57.0	56.9	54.9	54.2	57.3	53.8	50.5	48.6	49.8	51.3	52.5	51.4	51.4	53.7	51.7	53.5	52.0	52.8
630	56.6	54.6	54.4	52.4	51.7	54.9	51.3	48.1	46.1	47.5	49.0	50.2	49.0	49.0	51.3	49.4	51.2	49.6	50.5
800	53.9	52.0	51.9	49.9	49.2	52.4	48.7	45.5	43.6	45.0	46.6	47.8	46.6	46.5	48.9	47.0	48.9	47.2	48.1
1000	51.1	49.2	49.2	47.2	46.5	49.7	46.0	42.9	41.0	42.4	44.1	45.3	44.0	44.0	46.3	44.5	46.4	44.7	45.6
1250	48.2	46.3	46.3	44.3	43.7	46.9	43.1	40.1	38.1	39.6	41.2	42.6	41.3	41.3	43.7	41.8	43.9	42.1	43.0
1600	45.1	43.3	43.2	41.3	40.7	43.9	40.0	37.0	35.1	36.6	38.1	39.7	38.4	38.4	40.8	39.0	41.2	39.3	40.3
2000	41.9	40.0	39.9	38.1	37.6	40.8	36.6	33.8	31.9	33.4	34.7	36.9	35.3	35.3	37.8	35.9	38.4	36.4	37.3
2500	38.4	36.4	36.3	34.6	34.2	37.4	33.0	30.3	28.4	29.9	31.0	33.5	32.0	32.0	34.6	32.6	35.3	33.3	34.0
3150	34.6	32.5	32.4	30.7	30.5	33.7	29.0	26.6	24.7	25.1	27.0	30.0	28.4	28.4	31.0	29.1	31.9	29.9	30.5
4000	30.2	27.9	27.6	26.1	26.3	29.2	24.3	22.2	20.4	21.8	22.3	26.1	24.3	24.3	26.9	25.0	28.2	26.1	26.4
5000	25.4	23.0	22.5	21.2	21.7	24.4	19.4	17.6	15.9	17.3	17.5	21.3	20.0	20.0	22.5	20.7	24.1	21.9	22.1
6300	20.5	17.9	17.1	15.9	16.8	19.4	14.3	12.7	11.1	12.5	12.6	17.3	15.3	15.3	17.6	16.1	19.6	17.4	17.5
8000	16.2	13.5	12.4	11.0	12.4	15.2	9.9	8.7	7.1	8.5	8.8	13.2	11.2	11.2	13.2	12.1	15.2	13.3	13.3
10000	11.7	9.1	7.8	6.1	7.9	10.9	5.6	4.5	2.9	4.4	4.9	8.9	6.8	6.8	8.3	7.9	10.5	8.9	9.0
12500	7.5	4.9	3.7	1.6	3.5	6.8	1.6	.6		.5	1.3	4.5	2.6	2.6	3.6	3.8	5.7	4.4	4.8
16000	3.1	.7				2.4						.0					1.0		.6
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 8F-706-001
RUN 01
AIRCRAFT CODE 706
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE J3

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
90%RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

P=PNLT A=AL T=ALT

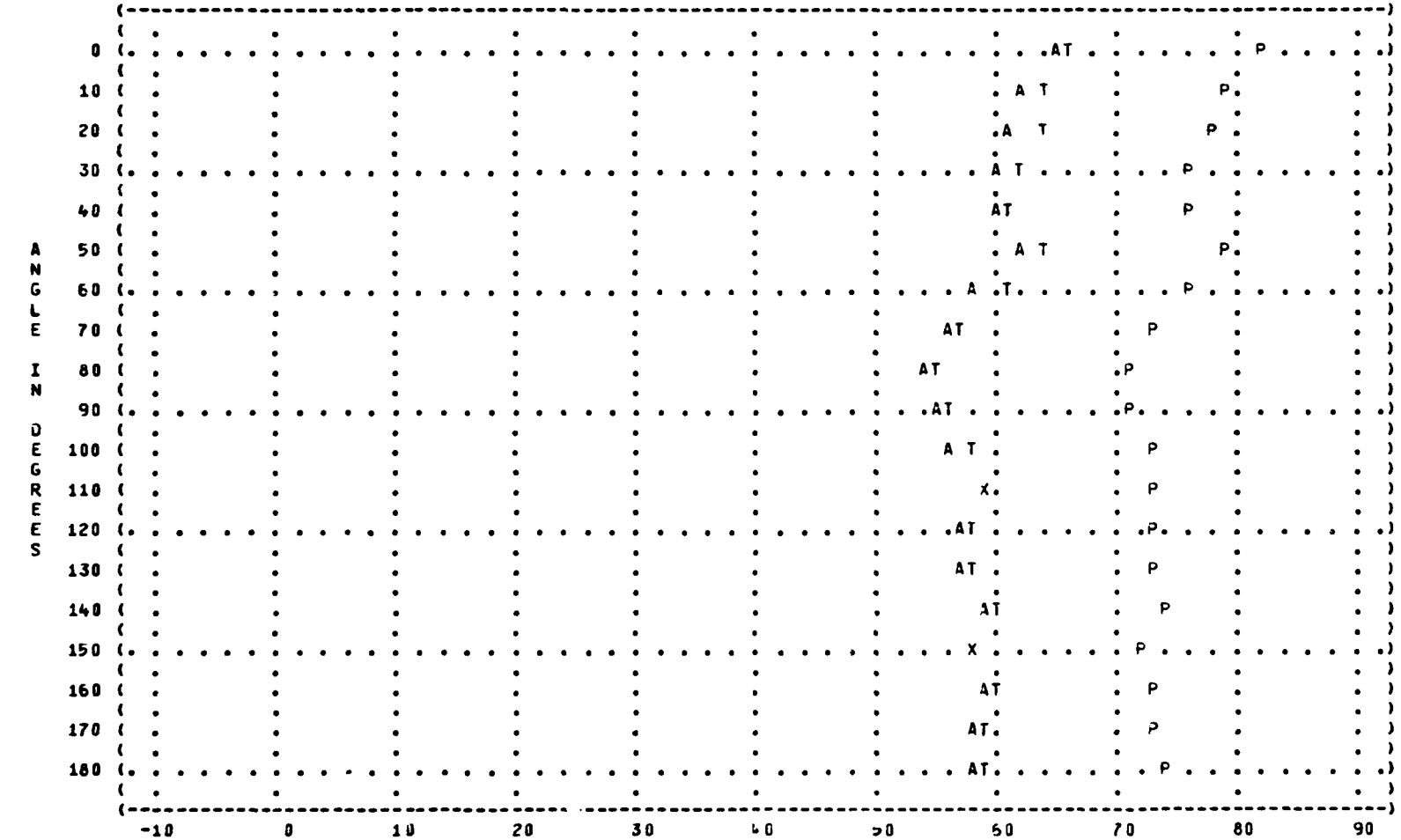


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
JMEGA 8.2
TEST BF-706-001
RUN 02
AIRCRAFT CODE 706
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE C2

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	70	69	72	71	74	75	75	77	77	77	76	76	78	81	82	86	88	86	88
63	66	65	64	66	66	68	67	71	71	73	75	75	78	81	74	81	82	81	82
80	66	64	63	65	65	65	65	69	69	72	72	72	78	74	72	75	74	74	75
100	69	64	63	65	64	64	63	66	67	70	70	70	72	73	70	73	72	68	66
125	68	65	63	61	62	62	61	63	62	66	67	68	68	72	68	69	68	65	62
160	63	61	57	58	58	58	57	58	60	63	65	65	69	69	66	66	65	65	58
200	54	53	54	54	54	55	55	56	55	60	64	65	68	73	69	64	65	68	60
250	54	53	54	52	53	53	54	55	55	58	62	65	69	70	71	70	65	64	63
315	54	53	51	49	48	47	49	49	51	54	58	59	60	64	63	62	58	58	62
400	53	52	52	50	50	45	46	46	46	51	54	55	55	59	57	55	53	55	63
500	56	56	53	52	55	52	51	50	47	52	54	53	54	58	53	53	54	56	61
630	54	55	51	51	54	51	50	50	49	52	53	52	53	58	54	53	55	56	59
800	53	55	50	50	53	50	52	50	49	53	53	54	54	58	54	55	55	56	58
1000	53	58	51	50	53	51	48	48	46	50	52	53	55	57	55	55	56	55	56
1250	53	57	52	51	53	52	49	48	48	51	52	55	55	58	58	60	56	55	54
1600	51	55	49	49	50	48	47	45	47	49	51	55	54	59	58	56	52	52	53
2000	49	52	49	49	48	45	46	44	46	49	50	53	53	57	53	50	50	51	52
2500	44	47	44	45	45	43	43	42	44	47	48	50	52	53	48	49	48	49	50
3150	41	42	41	41	42	40	42	41	46	49	46	49	49	50	48	48	48	48	50
4000	40	40	40	40	40	38	42	40	45	48	45	47	46	48	47	48	47	47	48
5000	40	40	42	41	41	39	40	41	47	48	43	45	44	46	46	47	46	46	47
6300	40	40	40	40	39	37	39	39	45	46	41	43	42	45	44	45	44	44	45
8000	38	37	39	38	38	37	37	39	44	45	40	42	42	43	43	44	43	44	44
10000	33	34	35	35	36	35	34	36	41	41	38	38	38	39	39	40	39	41	42
OVERALL	75	74	74	74	76	77	76	79	79	80	81	81	84	86	84	86	89	88	89

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-706-001
RUN 02
AIRCRAFT CODE 706
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	78.3	78.6	76.0	75.8	76.4	75.6	75.6	76.9	77.9	80.5	81.1	82.2	84.8	87.4	85.4	87.5	87.8	86.5	88.3
250	76.0	76.4	73.7	73.5	74.1	73.1	73.1	74.3	75.4	78.1	78.7	79.9	82.4	85.1	83.1	84.9	85.2	84.0	85.7
315	73.6	74.1	71.4	71.2	71.8	70.6	70.6	71.8	72.8	75.7	76.3	77.5	80.0	82.6	80.5	82.3	82.6	81.4	83.1
400	71.2	71.8	69.0	68.8	69.5	68.0	68.0	69.2	70.2	73.2	73.9	75.2	77.6	80.3	78.4	79.7	79.9	78.8	80.5
500	68.7	69.4	66.5	66.4	67.0	65.4	65.6	66.5	67.6	70.6	71.4	72.7	75.1	77.7	76.0	77.0	77.2	76.1	77.8
630	65.9	66.8	63.9	63.7	64.4	62.7	62.9	63.8	65.0	68.0	68.7	70.0	72.5	75.0	73.3	74.3	74.5	73.3	75.0
800	63.0	64.1	61.0	60.9	61.6	59.9	60.0	60.8	62.0	65.1	65.9	67.2	69.8	72.2	70.5	71.5	71.6	70.5	72.2
1000	59.9	61.2	57.9	57.8	58.6	56.8	56.8	57.6	58.7	62.1	62.8	64.2	67.0	69.2	67.4	68.5	68.7	67.5	69.3
1250	56.7	58.1	54.5	54.3	55.5	53.3	53.1	53.8	54.6	58.5	59.5	61.1	63.5	66.0	64.2	65.4	55.5	64.4	66.2
1600	53.1	54.7	50.6	50.3	51.9	49.6	49.2	49.7	50.4	54.0	55.2	57.4	59.7	62.4	60.4	62.0	62.2	61.0	63.0
2000	49.3	50.6	46.2	46.0	48.1	45.5	45.1	45.2	45.5	49.5	51.2	53.3	55.3	58.5	56.1	57.6	57.7	56.5	58.7
2500	44.7	45.8	41.6	40.9	43.4	40.6	40.0	40.0	40.3	44.6	46.6	48.3	49.9	54.0	51.4	52.4	52.5	51.2	53.7
3150	39.3	41.1	35.4	34.8	37.4	33.8	33.2	32.3	32.1	36.9	41.2	42.6	44.0	48.5	45.8	46.3	46.0	44.7	47.5
4000	32.7	36.0	28.8	28.6	32.3	27.2	26.5	22.9	23.1	30.2	33.2	35.4	37.0	42.5	36.9	39.6	37.4	37.7	41.3
5000	25.4	30.0	18.9	18.4	24.1	18.6	16.5	14.3	10.3	20.9	24.3	26.5	27.7	35.0	31.4	32.4	28.2	29.2	34.2
6300	14.1	22.3	9.1	8.2	14.7	9.9	6.5	5.7		7.4	12.1	14.5	16.3	25.5	20.3	21.6	18.2	19.2	25.0
8000	2.8	8.7			5.3	1.2						2.4	4.9	13.7	9.1	7.2	6.2	7.2	18.4
10000														1.8					7.7
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-706-001
RUN 02
AIRCRAFT CODE 706
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE E2

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																	
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	78.3	78.6	76.0	75.8	76.4	77.0	75.6	76.3	77.9	80.5	81.1	82.7	85.6	87.4	85.3	88.9	87.8	87.2	88.3
250	76.0	76.4	73.7	73.5	74.1	74.5	73.1	74.3	75.4	78.1	78.7	80.4	83.2	85.1	84.0	86.3	85.2	84.6	85.7
315	73.6	74.1	71.4	71.2	71.8	72.0	70.6	71.8	72.8	75.7	76.3	78.1	80.8	82.9	81.7	83.7	82.6	82.0	83.1
400	71.2	71.8	69.0	68.8	69.5	69.4	68.0	69.2	70.2	73.2	73.9	75.7	78.3	80.3	79.3	81.1	79.9	79.3	80.5
500	68.7	69.4	66.5	66.4	67.0	66.8	65.6	66.5	67.6	70.6	71.4	73.3	75.9	77.7	76.9	78.4	77.2	76.7	77.8
630	65.9	66.8	63.9	63.7	64.4	64.1	62.9	63.8	65.0	68.0	68.7	70.5	73.2	75.0	74.2	75.7	74.5	73.9	75.0
800	63.0	64.1	61.0	60.9	61.6	61.3	60.0	60.8	62.0	65.1	65.9	67.8	70.6	72.2	71.4	72.8	71.6	71.1	72.2
1000	59.9	61.2	57.9	57.8	58.6	58.2	56.0	57.6	58.7	62.1	62.8	64.7	67.7	69.2	68.3	69.9	68.7	68.1	69.3
1250	56.7	58.1	54.5	54.3	55.5	54.7	53.1	53.8	54.6	58.5	59.5	61.0	64.3	66.0	65.1	66.8	65.6	65.0	66.2
1600	53.1	54.7	50.6	50.3	51.9	51.0	49.2	49.7	50.4	54.0	55.2	58.0	61.5	62.4	61.3	63.3	62.2	61.6	63.0
2000	49.3	50.8	46.2	46.0	48.1	46.9	45.1	45.2	45.5	49.5	51.2	53.8	56.0	58.2	57.0	58.9	57.7	57.1	58.7
2500	44.7	45.8	41.5	40.9	43.4	42.0	40.0	40.0	40.3	44.6	46.6	48.9	50.6	54.0	52.2	53.8	52.5	51.8	53.7
3150	39.3	41.1	35.4	34.8	37.4	35.2	33.2	32.3	32.1	36.9	41.2	43.1	44.8	46.3	46.7	47.6	46.0	45.3	47.5
4000	32.7	36.0	28.8	28.6	32.3	28.4	26.5	22.9	23.1	30.2	33.2	35.8	37.6	42.2	39.6	40.7	37.4	38.2	41.3
5000	25.4	30.0	18.9	18.4	24.1	19.4	16.5	14.3	10.3	20.9	24.3	26.8	28.2	35.0	31.9	33.2	26.2	29.6	34.2
6300	14.1	22.3	9.1	8.2	14.7	10.5	6.2	5.7		7.4	12.1	14.7	15.6	25.3	20.6	22.2	18.2	19.3	25.0
8000	2.8	8.7			5.3	1.5						2.5	5.0	13.7	9.3	7.5	5.2	7.3	18.4
10000														1.8					7.7
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 3F-706-001
RUN 02

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

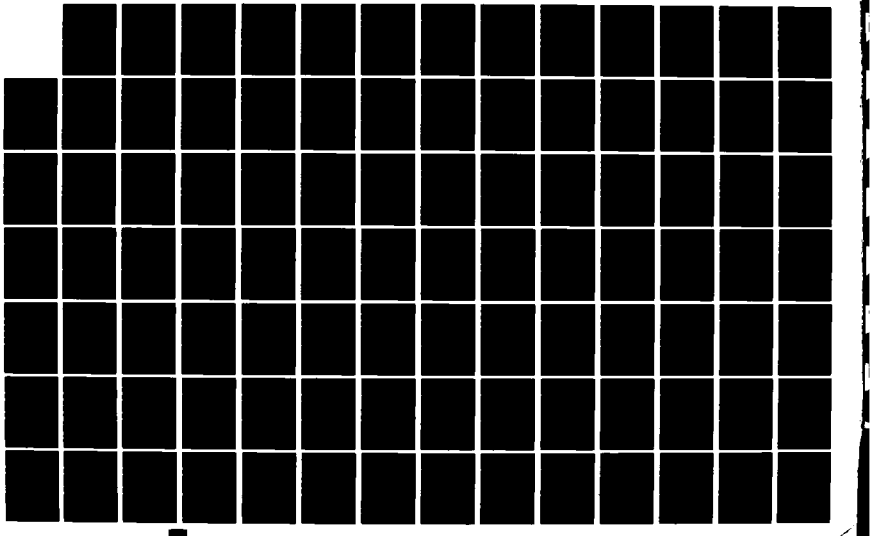
METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN Hg
REL HUMID = 70 %
DELTA N = 0.0 DB

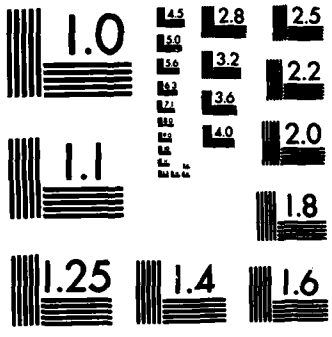
AIRCRAFT CODE 706
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	64.7	66.7	62.5	62.2	63.8	61.9	61.4	61.3	62.2	65.0	66.1	67.5	69.3	72.1	70.3	70.1	68.7	68.4	69.8
250	62.6	64.6	60.4	60.1	61.7	59.9	59.3	59.2	60.0	62.9	64.0	65.4	67.2	70.0	66.2	66.0	66.6	66.4	67.7
315	60.5	62.5	58.3	58.0	59.6	57.7	57.2	57.1	57.8	60.7	62.0	63.3	65.1	66.0	66.1	65.9	64.6	64.3	65.6
400	58.4	60.3	56.1	55.8	57.5	55.6	55.0	55.0	55.6	58.5	59.6	61.2	63.0	65.8	64.0	63.8	62.4	62.2	63.5
500	56.2	58.2	53.9	53.6	55.3	53.4	52.8	52.8	53.3	56.3	57.6	59.0	60.8	63.6	61.8	61.7	60.3	60.0	61.4
630	54.0	55.9	51.6	51.3	53.0	51.2	50.6	50.6	50.9	53.9	55.3	56.6	58.4	61.3	59.4	59.4	58.0	57.7	59.2
800	51.6	53.6	49.3	49.0	50.7	48.8	48.2	48.2	48.5	51.5	52.9	54.2	56.0	58.8	57.0	57.0	55.7	55.3	57.0
1000	49.2	51.2	46.9	46.6	48.4	46.4	45.8	45.8	45.9	49.0	50.5	51.7	53.4	56.3	54.4	54.5	53.3	52.9	54.7
1250	46.7	48.8	44.3	44.0	45.9	43.9	43.2	43.2	43.2	46.3	47.8	49.0	50.7	53.6	51.6	51.9	50.8	50.4	52.3
1600	44.0	46.2	41.7	41.4	43.4	41.3	40.6	40.5	40.4	43.4	44.9	46.1	47.7	50.7	48.6	49.0	48.1	47.7	49.8
2000	41.3	43.5	38.9	38.6	40.7	38.5	37.6	37.6	37.3	40.4	41.9	43.0	44.5	47.6	45.5	45.9	45.0	44.7	47.0
2500	38.3	40.6	35.9	35.6	37.8	35.6	34.7	34.5	33.9	37.1	38.7	39.7	41.0	44.2	42.0	42.5	41.7	41.4	43.8
3150	35.0	37.4	32.6	32.3	34.6	32.3	31.5	31.1	30.4	33.6	35.1	36.1	37.2	40.5	39.3	38.8	38.1	37.9	40.3
4000	31.3	33.9	29.0	28.7	31.1	28.8	27.9	27.4	26.5	29.8	31.2	32.2	33.2	36.5	34.3	34.8	34.2	34.1	36.5
5000	27.3	30.0	24.9	24.7	27.1	24.8	23.9	23.3	22.4	25.7	27.1	28.1	29.9	32.4	30.0	30.6	30.0	29.9	32.2
6300	22.9	25.8	20.5	20.3	22.8	20.5	19.6	18.9	17.9	21.3	22.7	23.6	24.5	28.0	25.5	26.1	25.6	25.5	27.7
8000	19.0	21.5	16.5	16.3	18.8	16.5	15.6	15.2	14.1	17.4	18.8	19.6	20.6	24.0	21.4	22.2	21.9	21.9	24.2
10000	14.8	16.9	12.2	11.9	14.5	12.2	11.4	11.2	10.2	13.4	14.8	15.2	16.6	19.9	17.1	18.2	18.2	18.0	20.5
12500	10.2	11.8	7.6	7.3	9.9	7.6	6.9	7.1	6.2	9.3	10.7	10.9	12.7	15.7	12.9	14.3	14.5	14.2	16.7
16000	5.5	6.4	2.8	2.5	4.9	2.9	2.3	3.1	2.4	5.2	6.6	6.6	8.8	11.5	8.9	10.7	11.1	10.5	12.9
20000	.6	.7								1.3	2.6	2.5	5.2	7.6	5.0	7.5	8.1	7.0	9.2
25000													1.8	3.9	1.5	4.6	5.2	3.9	5.9

AD-A122 844 FAR-FIELD ACOUSTIC DATA FOR THE TEXAS ASE INC HUSH-HOUSE SUPPLEMENT(U) AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OH R A LEE APR 82 2/3

UNCLASSIFIED AFAMRL-TR-81-148 F/G 6/6 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-706-001
RUN 02
AIRCRAFT CODE 706
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE G2

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	64.7	66.7	62.5	62.2	63.8	63.4	61.4	61.3	62.2	65.0	66.1	68.1	70.0	72.1	71.2	71.5	66.7	69.0	69.8
250	62.6	64.6	60.4	60.1	61.7	61.3	59.3	59.2	60.0	62.9	64.0	66.0	63.0	70.0	69.1	69.4	66.6	66.9	67.7
315	60.5	62.5	58.3	58.0	59.6	59.2	57.2	57.1	57.8	60.7	62.0	63.3	65.9	68.0	67.0	67.3	64.6	64.8	65.6
400	58.4	60.3	56.1	55.8	57.5	57.0	55.0	55.0	55.6	58.5	59.8	61.7	63.8	65.8	64.9	65.2	62.4	62.7	63.5
500	56.2	58.2	53.9	53.6	55.3	54.8	52.8	52.8	53.3	56.3	57.6	59.5	61.5	63.3	62.7	63.0	60.3	60.5	61.4
630	54.0	55.9	51.5	51.3	53.0	52.6	50.6	50.6	50.9	53.9	55.3	57.2	59.2	61.3	60.3	60.7	58.0	58.2	59.2
800	51.6	53.6	49.3	49.0	50.7	50.3	48.2	48.2	48.5	51.5	52.9	54.8	56.8	58.8	57.8	58.3	55.7	55.9	57.0
1000	49.2	51.2	46.9	46.6	48.4	47.9	45.8	45.8	45.9	49.0	50.5	52.2	54.2	56.3	55.2	55.9	53.3	53.5	54.7
1250	46.7	48.8	44.3	44.0	45.9	45.4	43.2	43.2	43.2	46.3	47.8	49.5	51.4	53.5	52.5	53.2	50.8	51.0	52.3
1600	44.0	46.2	41.7	41.4	43.4	42.7	40.6	40.5	40.4	43.4	44.9	46.6	48.4	50.7	49.5	50.4	48.1	48.3	49.8
2000	41.3	43.5	38.9	38.6	40.7	40.0	37.8	37.6	37.3	40.4	41.9	43.6	45.2	47.5	46.4	47.2	45.0	45.3	47.0
2500	38.3	40.6	35.9	35.6	37.8	37.0	34.7	34.5	33.9	37.1	38.7	40.3	41.7	44.2	42.9	43.8	41.7	42.0	43.8
3150	35.0	37.4	32.6	32.3	34.6	33.7	31.5	31.1	30.4	33.6	35.1	36.7	38.0	40.5	39.2	40.2	38.1	38.5	40.3
4000	1.3	33.9	29.0	28.7	31.1	29.9	27.9	27.4	26.5	29.8	31.2	32.7	33.8	36.5	35.0	35.9	34.2	34.5	36.5
5000	27.3	30.0	24.9	24.7	27.1	25.6	23.9	23.3	22.4	25.7	27.1	28.4	29.4	32.4	30.5	31.4	30.0	30.3	32.2
6300	22.9	25.8	20.5	20.3	22.8	21.0	19.6	18.9	17.9	21.3	22.7	23.8	24.8	26.0	25.8	26.7	25.6	25.8	27.7
8000	19.0	21.5	16.5	16.3	18.8	16.7	15.6	15.2	14.1	17.4	18.8	19.6	20.9	24.0	21.5	22.5	21.9	22.0	24.2
10000	14.8	16.9	12.2	11.9	14.5	12.2	11.4	11.2	10.2	13.4	14.8	15.2	15.6	19.9	17.1	18.2	18.2	18.0	20.5
12500	10.2	11.8	7.6	7.3	9.9	7.6	6.9	7.1	6.2	9.3	10.7	10.9	12.7	15.7	12.9	14.3	14.5	14.2	16.7
16000	5.5	6.4	2.8	2.5	4.9	2.9	2.3	3.1	2.4	5.2	6.6	6.6	8.8	11.5	8.9	10.7	11.1	10.5	12.9
20000	.6	.7								1.3	2.6	2.0	5.2	7.5	5.0	7.5	8.1	7.0	9.2
25000													1.8	3.9	1.5	4.6	5.2	3.9	5.9

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-706-001
RUN 02
AIRCRAFT CODE 706
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE J2

P=PNLT A=AL T=ALT

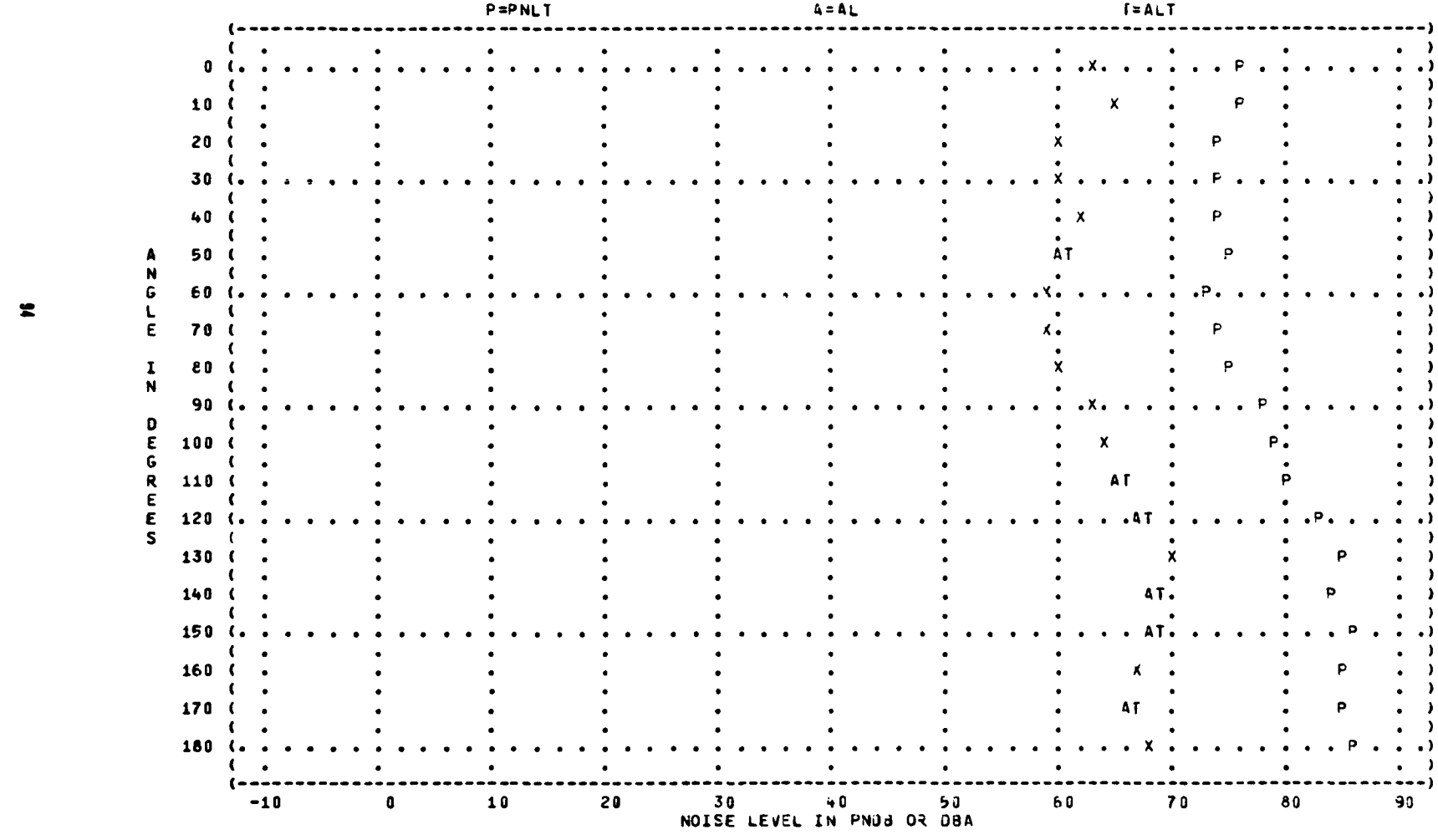


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 9F-706-001
RUN 03
AIRCRAFT CODE 706
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE C1

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER PWR (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	78	77	82	82	85	85	86	87	84	84	86	90	93	95	98	98	98	98	98
63	78	77	74	79	82	78	79	84	82	84	83	85	87	90	92	95	95	96	96
80	75	73	72	74	79	72	75	77	78	81	84	85	84	83	81	86	87	90	90
100	81	74	72	73	78	71	72	73	75	78	80	80	80	81	79	78	78	82	82
125	78	76	72	72	74	71	72	71	72	76	77	77	79	77	78	76	77	76	76
160	72	72	67	68	71	66	66	66	68	73	75	74	74	74	74	72	74	72	72
200	65	64	66	66	65	63	63	63	65	71	73	76	74	74	75	70	70	70	70
250	62	63	64	61	71	61	61	61	64	69	72	76	77	74	77	75	74	68	68
315	63	61	61	58	68	57	56	57	63	65	65	67	68	69	71	70	68	64	64
400	61	60	70	57	63	56	57	55	63	61	61	65	64	65	65	63	62	62	62
500	62	61	72	60	66	62	59	59	65	58	58	62	63	64	62	63	63	62	62
630	60	61	72	58	60	60	59	58	64	58	58	59	61	64	61	63	63	61	61
800	59	59	66	57	63	58	59	58	65	59	59	60	62	63	63	63	63	61	61
1000	61	58	65	58	61	58	59	56	63	59	56	59	63	63	63	64	63	62	62
1250	61	60	67	60	61	60	58	57	60	61	59	62	64	65	67	67	67	63	63
1600	59	58	65	57	63	58	62	53	61	59	58	62	65	65	66	64	64	58	58
2000	58	57	63	56	58	55	58	53	62	57	58	62	63	63	61	58	59	55	55
2500	52	51	58	53	53	51	54	50	57	56	55	58	60	58	56	56	55	52	52
3150	49	46	63	46	47	47	51	50	56	56	52	57	59	55	54	54	54	51	51
4000	47	45	55	45	48	45	48	49	54	55	52	55	52	53	54	53	53	50	50
5000	46	45	51	45	45	45	50	48	55	55	52	52	51	51	52	52	52	49	49
6300	46	44	50	44	44	44	50	46	52	54	50	50	50	50	50	51	51	48	48
8000	43	42	51	42	42	41	56	45	52	53	48	48	49	49	50	50	50	47	47
10000	40	39	53	39	39	39	54	43	48	50	45	45	45	46	47	47	48	45	45
OVERALL	86	83	85	85	88	86	87	89	88	89	91	93	95	97	99	100	100	100	100

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER PWR (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-706-001
RUN 03
AIRCRAFT CODE 706
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	89.2	86.4	91.5	85.2	89.4	86.3	88.4	86.3	89.8	90.6	91.6	93.9	95.6	96.5	98.2	97.8	98.2	97.3	97.3
250	87.0	84.1	89.3	82.7	87.0	83.8	85.9	85.7	87.3	88.1	89.2	91.5	93.4	94.5	96.1	95.7	96.1	95.2	95.2
315	84.7	81.7	87.0	80.2	84.6	81.2	83.3	83.1	84.9	85.6	86.6	89.0	91.3	92.3	93.9	93.5	94.0	93.1	93.1
400	82.3	79.3	84.6	77.7	82.2	78.6	80.6	80.4	82.5	83.1	84.3	86.4	88.7	90.1	91.8	91.4	91.8	91.0	91.0
500	79.8	76.8	82.0	75.1	79.7	76.0	77.9	77.7	80.1	80.5	81.6	83.8	86.0	87.5	89.5	89.2	89.6	88.8	88.8
630	77.2	74.1	79.4	72.5	77.2	73.3	75.1	75.0	77.2	77.8	79.2	81.0	83.3	84.7	87.0	86.6	87.2	86.3	86.3
800	74.4	71.2	76.7	69.7	74.4	70.5	72.3	72.2	74.8	75.0	76.5	78.3	80.4	81.9	84.2	83.8	84.4	83.5	83.5
1000	71.3	68.1	74.1	66.8	71.5	67.6	69.3	69.2	72.0	72.1	73.7	75.5	77.5	79.0	81.3	80.9	81.5	80.6	80.6
1250	67.9	64.9	71.4	63.8	68.6	64.6	66.2	66.1	68.9	69.0	70.3	72.2	74.5	75.8	78.3	77.9	78.5	77.6	77.6
1600	64.2	61.2	68.4	60.5	65.4	61.2	62.8	62.8	65.8	65.2	66.6	68.9	71.2	72.8	75.1	74.7	75.3	74.3	74.3
2000	59.9	57.5	65.2	56.6	61.9	57.0	58.9	58.3	62.0	61.0	62.4	64.8	67.1	68.6	70.9	70.5	71.1	70.0	70.0
2500	55.1	53.3	61.7	52.2	57.7	52.9	54.6	53.3	57.7	58.1	57.5	60.1	62.5	64.0	66.1	65.7	66.2	65.1	65.1
3150	50.1	48.3	57.6	47.2	53.0	47.8	49.5	46.7	53.1	50.6	51.3	54.7	57.1	58.6	60.7	60.2	60.8	59.6	59.6
4000	44.2	42.4	52.8	41.0	47.5	41.3	42.9	40.3	47.0	44.6	44.7	48.6	50.9	52.3	54.4	54.0	54.5	53.2	53.2
5000	38.0	36.1	47.4	33.8	40.8	34.9	35.9	32.9	40.9	38.0	38.1	42.0	44.3	44.9	46.9	46.2	47.0	45.2	45.2
6300	30.0	29.7	41.6	25.7	34.0	27.4	27.3	22.8	34.0	27.7	27.5	33.4	35.8	37.2	38.6	38.5	38.5	35.2	35.2
8000	21.6	20.3	36.7	18.0	28.0	20.4	18.5	14.3	28.2	15.3	16.3	24.0	26.2	30.5	31.9	31.9	32.0	29.4	29.4
10000	10.0	10.2	30.9	10.2	17.7	9.1	9.7	5.9	19.2	8.9	9.1	11.2	17.6	20.0	23.9	22.5	23.6	21.5	21.5
12500		.2	24.3	2.5	9.3		.9		7.6				7.0	10.0	10.2	10.8	12.6	11.9	11.9
16000			14.8		1.0									.7			1.7	2.2	2.2
20000			5.4																
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-706-001
RUN 03
AIRCRAFT CODE 706
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE E1

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER PWR (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	89.9	86.4	93.9	85.2	90.7	87.5	89.6	88.3	89.8	90.6	91.6	94.4	96.5	96.5	93.9	98.6	99.4	97.3	97.3
250	87.7	84.1	91.6	82.7	88.4	85.0	87.0	85.7	87.3	88.1	89.2	92.1	94.4	94.5	96.8	96.5	97.3	95.2	95.2
315	85.4	81.7	89.3	80.2	86.0	82.4	84.4	83.1	84.9	85.6	86.8	89.5	92.3	92.3	94.7	94.4	95.1	93.1	93.1
400	83.0	79.3	86.8	77.7	83.5	79.8	81.8	80.4	82.5	83.1	84.3	86.9	89.6	90.1	92.5	92.2	92.9	91.0	91.0
500	80.5	76.8	84.3	75.1	81.1	77.2	79.1	77.7	80.1	80.5	81.8	84.3	87.0	87.5	90.3	90.0	90.7	88.8	88.8
630	78.0	74.1	81.7	72.5	78.5	74.5	76.3	75.0	77.5	77.8	79.2	81.8	84.2	84.7	87.6	87.4	88.3	86.3	86.3
800	75.1	71.2	79.0	69.7	75.8	71.7	73.4	72.2	74.8	75.0	76.5	78.8	81.4	81.9	85.0	84.6	85.5	83.5	83.5
1000	72.0	68.1	76.4	66.8	72.9	68.8	70.5	69.2	72.0	72.1	73.7	76.0	78.5	79.0	82.1	81.7	82.6	80.6	80.6
1250	68.6	64.9	73.6	63.8	70.0	65.8	67.3	66.1	68.9	69.0	70.3	72.7	75.4	76.0	79.0	78.7	79.6	77.6	77.6
1600	64.9	61.2	70.7	60.5	66.8	62.4	63.9	62.8	65.6	65.2	66.6	69.4	72.2	72.8	75.8	75.5	76.4	74.3	74.3
2000	60.7	57.5	67.4	56.6	63.2	58.1	60.0	58.3	62.0	61.0	62.4	65.3	68.1	68.5	71.7	71.3	72.2	70.0	70.0
2500	55.8	53.3	64.0	52.2	59.1	54.0	55.8	53.3	57.7	56.1	57.5	60.7	63.5	64.0	66.9	66.5	67.4	65.1	65.1
3150	50.8	48.3	59.9	47.2	54.4	49.0	50.6	46.7	53.1	50.6	51.3	55.3	58.0	58.5	61.4	61.0	61.9	59.6	59.6
4000	44.7	42.4	54.6	41.0	48.6	42.2	43.8	40.3	47.6	44.6	44.7	49.0	51.7	52.3	55.0	54.6	55.4	53.2	53.2
5000	38.4	36.1	48.8	33.8	41.6	35.7	36.6	32.9	40.9	38.0	38.1	42.4	44.9	44.3	47.3	46.7	47.6	45.2	45.2
6300	30.3	28.7	42.5	25.7	34.6	27.9	27.8	22.6	34.3	27.7	27.5	33.6	36.2	37.2	38.9	38.8	39.0	35.2	35.2
8000	21.7	20.3	37.1	18.0	28.3	20.6	18.7	14.3	26.2	18.3	16.3	24.1	28.4	30.5	32.0	32.1	32.2	29.4	29.4
10000	10.0	10.2	30.9	10.2	17.7	9.1	9.7	5.9	19.2	8.9	5.1	11.2	17.6	20.5	23.9	22.5	23.6	21.5	21.5
12500		.2	24.3	2.5	9.3		.9		7.6				7.0	10.5	10.2	10.8	12.6	11.9	11.9
16000			14.8		1.0									.7			1.7	2.2	2.2
20000			5.4																
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER PWR (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-706-001
RUN 03
AIRCRAFT CODE 706
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	73.1	71.5	78.6	70.3	74.5	70.4	71.7	69.7	74.7	73.7	74.4	76.7	77.8	77.5	78.6	78.3	78.5	77.4	77.4
250	71.1	69.4	76.5	68.2	72.5	68.3	69.5	67.6	72.6	71.6	72.3	74.7	75.7	75.7	76.7	76.3	76.5	75.3	75.3
315	69.0	67.3	74.4	66.1	70.4	66.2	67.3	65.6	70.4	69.5	70.2	72.6	73.6	73.6	74.6	74.2	74.4	73.3	73.3
400	66.9	65.2	72.3	64.0	68.3	64.1	65.1	63.4	68.3	67.3	68.1	70.5	71.5	71.5	72.5	72.1	72.3	71.2	71.2
500	64.7	63.0	70.1	61.8	66.1	61.9	62.9	61.3	66.1	65.1	65.9	68.2	69.3	69.3	70.4	70.0	70.2	69.2	69.2
630	62.4	60.7	67.9	59.5	63.9	59.7	60.6	59.0	63.8	62.7	63.6	65.9	67.0	67.1	68.1	67.8	68.0	67.0	67.0
800	60.1	58.4	65.6	57.1	61.6	57.4	58.2	56.8	61.5	60.3	61.1	63.4	64.6	64.5	65.8	65.6	65.8	64.9	64.9
1000	57.5	55.9	63.3	54.7	59.1	55.0	55.8	54.4	59.1	57.8	58.6	60.9	62.1	62.3	63.4	63.3	63.5	62.7	62.7
1250	54.9	53.3	60.9	52.2	56.6	52.5	53.2	51.9	56.6	55.1	55.8	58.1	59.4	59.3	60.9	60.9	61.1	60.3	60.3
1600	52.1	50.6	58.4	49.5	53.8	49.9	50.6	49.2	53.9	52.1	52.8	55.2	56.5	57.0	58.1	58.1	58.3	57.5	57.5
2000	49.1	47.8	55.9	46.6	51.0	47.1	47.7	46.3	51.2	49.0	49.5	51.9	53.4	54.0	55.0	55.0	55.2	54.3	54.3
2500	45.9	44.7	53.0	43.5	47.8	44.2	44.6	43.1	48.2	45.6	45.9	48.4	49.9	50.5	51.6	51.6	51.8	50.7	50.7
3150	42.4	41.3	49.9	40.1	44.4	40.9	41.2	39.6	44.9	42.0	42.1	44.5	46.2	47.0	47.6	47.9	48.0	46.8	46.8
4000	38.6	37.6	46.3	36.3	40.6	37.2	37.5	35.8	41.3	38.0	37.9	40.3	42.1	43.0	43.8	43.8	43.9	42.5	42.5
5000	34.5	33.6	42.1	32.3	36.5	33.2	33.4	31.7	37.3	33.8	33.6	35.9	37.9	38.7	39.4	39.5	39.6	38.0	38.0
6300	30.1	29.2	37.8	27.9	32.0	28.8	28.9	27.3	32.3	29.4	29.1	31.3	33.3	34.2	34.8	35.0	35.0	33.5	33.5
8000	26.2	25.2	34.0	23.9	28.1	24.9	24.9	23.6	29.0	25.5	25.4	27.5	29.4	30.4	31.1	31.4	31.5	30.4	30.4
10000	22.0	21.0	29.9	19.6	24.0	20.7	20.6	19.8	24.8	21.4	21.7	23.7	25.5	26.5	27.4	27.8	28.1	27.3	27.3
12500	17.7	16.6	25.5	15.2	19.7	16.3	16.2	16.0	20.3	17.3	18.0	20.0	21.6	22.8	24.0	24.4	24.8	24.4	24.4
16000	13.3	12.0	20.6	10.8	15.3	11.8	11.9	12.2	15.6	13.4	14.5	16.5	18.0	19.3	20.8	21.3	21.8	21.7	21.7
20000	9.1	7.3	15.3	6.6	10.9	7.5	7.8	8.8	10.7	9.8	11.2	13.2	14.7	16.1	16.0	18.5	19.1	19.1	19.1
25000	5.1	2.9	9.4	2.8	6.9	3.5	4.2	5.7	6.2	5.4	8.1	10.0	11.6	13.2	15.3	15.8	16.4	16.5	16.5

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER PWR (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 8F-706-001
RUN 03
AIRCRAFT CODE 706
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	73.9	71.5	80.9	70.3	75.9	71.6	72.8	69.7	74.7	73.7	74.4	77.2	78.7	77.3	79.5	79.2	79.6	77.4	77.4
250	71.8	69.4	78.8	68.2	73.8	69.5	70.7	67.6	72.6	71.6	72.3	75.2	76.7	75.7	77.5	77.1	77.6	75.3	75.3
315	69.7	67.3	76.7	66.1	71.7	67.4	68.5	65.6	70.4	69.5	70.2	73.1	74.6	73.6	75.4	75.0	75.5	73.3	73.3
400	67.6	65.2	74.5	64.0	69.6	65.3	66.3	63.4	68.3	67.3	68.1	71.0	72.5	71.5	73.3	73.0	73.4	71.2	71.2
500	65.4	63.0	72.4	61.8	67.5	63.1	64.1	61.3	66.1	65.1	65.9	68.8	70.3	69.3	71.1	70.8	71.3	69.2	69.2
630	63.2	60.7	70.1	59.5	65.2	60.9	61.8	59.0	63.8	62.7	63.6	66.4	68.0	67.1	68.9	68.6	69.1	67.0	67.0
800	60.8	58.4	67.9	57.1	62.9	58.6	59.4	56.8	61.5	60.3	61.1	64.0	65.6	64.8	66.5	66.4	66.9	64.9	64.9
1000	58.3	55.9	65.6	54.7	60.5	56.2	57.0	54.4	59.1	57.8	58.6	61.4	63.0	62.3	64.2	64.1	64.6	62.7	62.7
1250	55.6	53.3	63.2	52.2	57.9	53.7	54.4	51.9	56.6	55.1	55.6	58.6	60.4	59.8	61.6	61.7	62.2	60.3	60.3
1600	52.8	50.6	60.7	49.5	55.2	51.1	51.7	49.2	53.9	52.1	52.8	55.7	57.5	57.0	58.9	58.9	59.5	57.5	57.5
2000	49.8	47.8	58.2	46.6	52.3	48.3	48.9	46.3	51.2	49.0	49.5	52.5	54.3	54.0	55.8	55.8	56.3	54.3	54.3
2500	46.6	44.7	55.3	43.5	49.2	45.3	45.7	43.1	48.2	45.6	45.9	48.9	50.9	50.5	52.3	52.4	52.9	50.7	50.7
3150	43.2	41.3	52.2	40.1	45.7	42.1	42.4	39.6	44.9	42.0	42.1	45.0	47.2	47.0	48.6	48.7	49.1	46.8	46.8
4000	39.2	37.6	48.1	36.3	41.7	38.2	38.4	35.8	41.3	38.0	37.9	40.7	42.9	43.0	44.4	44.5	44.8	42.5	42.5
5000	35.0	33.6	43.5	32.3	37.3	33.9	34.1	31.7	37.3	33.8	33.6	36.2	38.4	38.7	39.8	40.0	40.2	38.0	38.0
6300	30.4	29.2	38.7	27.9	32.6	29.3	29.4	27.3	32.9	29.4	29.1	31.5	33.7	34.2	35.1	35.4	35.5	33.5	33.5
8000	26.3	25.2	34.5	23.9	28.4	25.1	25.1	23.6	29.0	25.5	25.4	27.6	29.6	30.4	31.2	31.6	31.7	30.4	30.4
10000	22.0	21.0	29.9	19.6	24.0	20.7	20.6	19.8	24.8	21.4	21.7	23.7	25.5	26.3	27.4	27.8	28.1	27.3	27.3
12500	17.7	16.6	25.5	15.2	19.7	16.3	16.2	16.0	20.3	17.3	18.0	20.0	21.6	22.8	24.0	24.4	24.8	24.4	24.4
16000	13.3	12.0	20.6	10.8	15.3	11.8	11.9	12.2	15.6	13.4	14.5	16.5	18.0	19.3	20.8	21.3	21.8	21.7	21.7
20000	9.1	7.3	15.3	6.6	10.9	7.5	7.6	8.6	10.7	9.8	11.2	13.2	14.7	16.1	18.0	18.5	19.1	19.1	19.1
25000	5.1	2.9	9.4	2.8	6.9	3.5	4.2	5.7	6.2	6.4	8.1	10.0	11.6	13.2	15.3	15.8	16.4	16.5	16.5

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

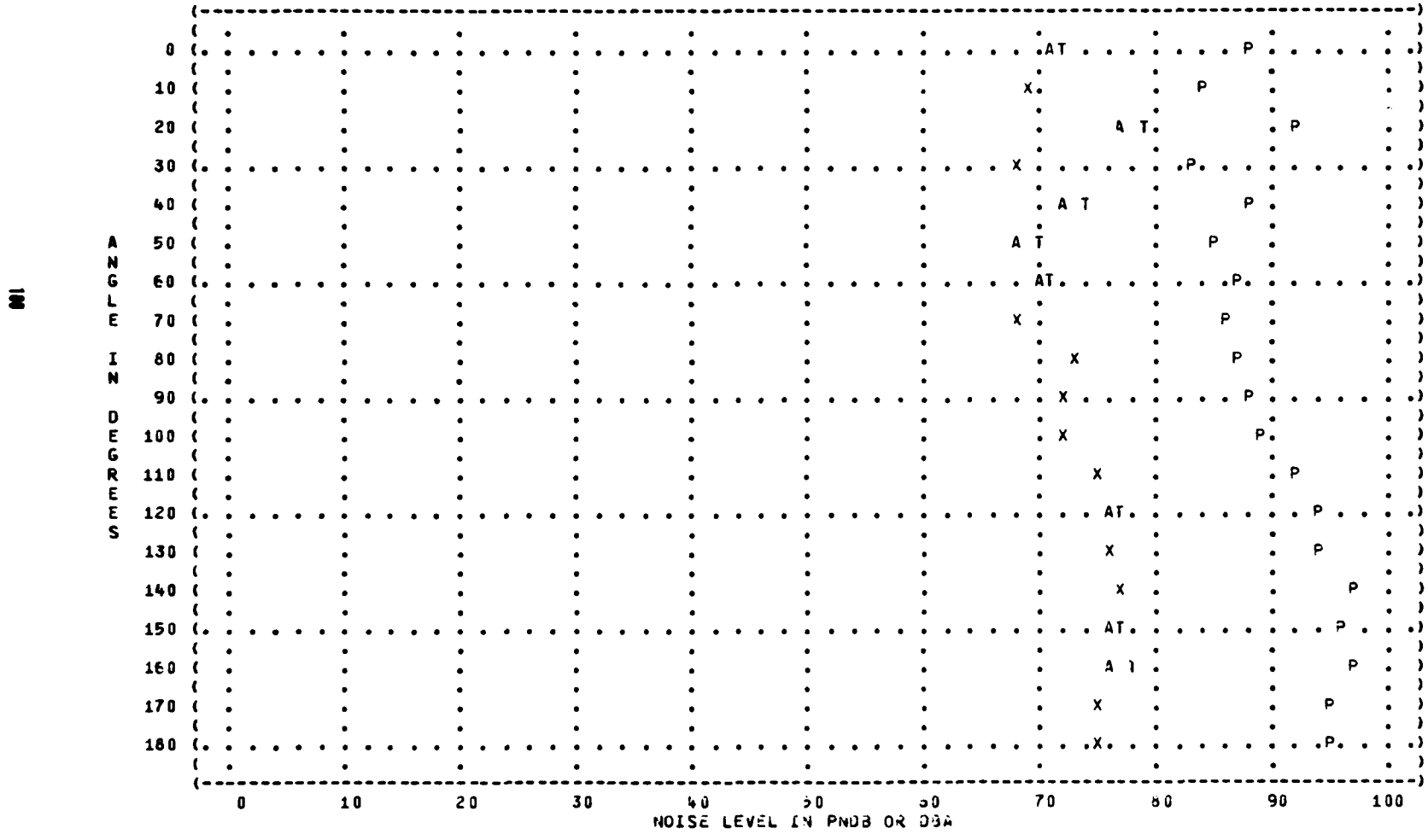
NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER PWR (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 8F-706-001
RUN 03
AIRCRAFT CODE 706
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE J1

P=PNLT A=AL T=ALT



USAF HUSH HOUSE(F-106 A/C) HUSH HOUSE(F-106 A/C) HUSH HOUSE(F-106 A/C) HUSH HOUSE(F-106 A/C) USAF

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(F-106 A/C)

DURING GROUND RUN-UP OPERATIONS

TEST BF-707-001
AIRCRAFT CODE: 707
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting	Page
Engine Runup, 85% RPM	102
Engine Runup, 95% RPM	108
Military Power, 100% RPM	114
Afterburner Power, 100% RPM	120

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF HUSH HOUSE(F-106 A/C) HUSH HOUSE(F-106 A/C) HUSH HOUSE(F-106 A/C) HUSH HOUSE(F-106 A/C) USAF

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 01
AIRCRAFT CODE 707
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE C4

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	49<	49<	48<	46<	47<	46<	74<	65	48<	46<	50<	47<	72	72<	58<	70<	68	66	68
63	49<	49<	48<	46<	47<	46<	74	73	48<	46<	50<	47<	69	72<	58<	70<	70<	69<	66<
80	49<	49<	48<	46<	47<	46<	72<	71<	48<	46<	50<	47<	66<	72<	58<	70<	73	73	65<
100	49<	49<	48<	46<	47<	46<	69<	68<	48<	46<	50<	47<	67<	72	58<	70	70	70<	64<
125	49<	49<	48<	46<	47<	46<	67<	65<	48<	46<	50<	47<	65	68	58<	68<	68<	67	63<
160	49<	49<	48<	46<	47<	46<	65<	62<	48<	46<	50<	47<	63<	64<	58<	67<	65<	67	61<
200	49<	49<	48<	46<	47<	46<	62<	60<	48<	46<	50<	47<	60<	61<	58<	65	62	67	60
250	49<	49<	48<	46<	47<	46<	60<	57<	48<	46<	50<	47<	58	57	58	63	61	63	58
315	49<	49<	48<	46<	47<	46<	58<	54<	48<	46<	50<	47<	56	53	62	65	65	65	62
400	49<	49<	48<	46<	47<	46<	55<	51<	48	46<	50<	47<	53	52	54	58	57	59	56
500	49	49	48	46	47	46	53<	49	50	46<	50	47	54	51	53	56	55	55	53
630	47	48	51	45	46<	46<	51<	46	52	46<	53	53	53	52	51	56	54	54	50
800	46	46	48	45	45	46	49<	49	53	46<	48	49	50	53	48	55	53	53	50
1000	47	48	49	45	57	47	46	52	49	46	55	54	50	52	47	55	54	52	50
1250	51	48	49	47	50	45	42	47	47	42	52	50	51	51	46	53	53	52	50
1600	56	54	53	50	50	46	44	47	48	44	55	50	51	51	46	56	55	54	51
2000	54	55	54	51	50	47	45	47	45	44	55	50	50	50	44	53	52	53	48
2500	43	48	47	44	47	42	40	44	47	41	52	49	47	47	43	52	50	51	47
3150	40	46	42	39	44	39	38	41	49	39	48	48	46	45	40	50	50	50	47
4000	36	39	37	35	35	38	35	39	43	35	36	39	42	39	37	46	46	45	43
5000	40	39	36	34	33	34	32	35	43	34	33	36	41	36	37	46	45	45	44
6300	38	39	36	34	34	33	33	33	36	33	30	32	38	33	33	43	41	42	39
8000	36	37	35	33	36	34	38	33	34	32	24<	33	36	32	32	42	41	44	37
10000	34	34	33	31	34	33	31	30	33	32	18<	32	33	26<	26<	38	34	36	33
OVERALL	63	63	62	59	62	59	79	77	62	58	64	62	76	79	69	78	78	78	74

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
65% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 01
AIRCRAFT CODE 707
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE D4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	75.0	75.9	75.0	72.1	73.1	70.1	78.3	76.8	74.6	68.6	76.4	73.9	78.2	80.3	75.8	82.7	82.0	82.2	78.5
250	72.8	73.6	72.7	69.8	70.8	67.8	75.9	74.4	72.2	66.3	74.1	71.6	75.9	77.9	73.6	80.4	79.8	80.0	76.3
315	70.4	71.3	70.4	67.5	68.5	65.5	73.5	72.0	69.9	64.0	71.8	69.3	73.6	75.5	71.3	78.2	77.5	77.7	74.0
400	68.1	68.9	68.1	65.1	66.0	63.0	71.0	69.6	67.4	61.5	69.5	66.9	71.2	73.1	69.0	75.9	75.2	75.4	71.7
500	65.6	66.4	65.5	62.6	63.5	60.5	68.5	67.0	64.7	58.9	67.1	64.3	68.8	70.5	66.7	73.5	72.8	73.0	69.3
630	63.0	63.8	63.0	59.9	60.9	57.7	65.9	64.4	62.0	56.1	64.5	61.7	66.4	68.0	64.2	71.0	70.3	70.5	66.9
800	60.2	61.0	60.1	57.1	58.0	54.8	63.0	61.6	59.1	53.1	61.9	58.8	63.7	65.2	61.5	68.4	67.8	67.9	64.3
1000	57.3	58.1	57.2	54.1	55.1	51.7	60.0	58.7	55.9	49.7	59.0	55.8	61.0	62.1	58.7	65.6	65.0	65.1	61.4
1250	54.2	54.9	54.0	50.8	51.8	48.1	56.5	54.8	52.3	45.9	55.9	52.6	57.8	58.5	55.3	62.5	61.8	61.9	58.0
1600	50.9	51.4	50.5	47.1	48.3	44.2	52.8	50.2	48.2	41.9	52.5	48.8	54.4	54.3	51.7	58.8	58.1	58.2	54.3
2000	47.1	47.4	46.6	42.6	44.6	39.7	48.7	46.2	43.9	37.4	48.8	44.6	50.6	49.4	47.3	54.7	54.0	54.1	50.0
2500	42.4	42.7	42.0	38.0	40.7	34.7	43.8	41.1	39.7	32.7	44.1	40.0	45.6	44.4	42.4	49.8	49.2	49.2	44.7
3150	37.2	37.5	36.6	32.1	36.1	27.9	37.3	35.3	34.6	25.5	39.2	35.6	39.7	39.0	36.4	44.3	43.5	43.7	38.7
4000	30.8	30.8	30.5	23.6	30.4	18.4	27.7	26.2	28.6	15.7	32.9	29.3	32.4	30.9	29.0	37.6	36.2	36.8	31.5
5000	20.5	18.7	19.7	11.3	22.8	8.9	18.1	12.6	17.8	5.8	25.0	20.1	23.1	22.8	19.3	30.0	27.6	28.1	21.3
6300	9.0	6.5	8.9		13.4		8.5		7.4		13.9	8.1	6.9	8.3	9.5	18.4	16.2	14.9	11.1
8000					4.0						2.9					6.7	4.9	1.8	.9
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 01
AIRCRAFT CODE 707
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE E4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	76.5	77.5	76.4	73.5	76.2	70.1	79.3	79.1	74.6	68.6	76.3	75.4	76.2	80.3	76.8	83.5	83.1	83.1	79.6
250	74.2	75.2	74.1	71.2	73.9	67.8	77.0	76.7	72.2	66.3	76.0	73.1	73.9	77.9	74.6	81.3	80.8	80.9	77.3
315	71.9	72.9	71.8	68.9	71.6	65.5	74.6	74.3	69.9	64.0	73.7	70.8	73.6	75.5	72.4	79.0	78.6	78.6	75.1
400	69.5	70.5	69.4	66.5	69.2	63.0	72.1	71.8	67.4	61.5	71.4	68.3	71.2	73.1	70.1	76.7	76.3	76.3	72.8
500	67.0	68.0	66.9	63.9	66.7	60.5	69.6	69.3	64.7	58.9	69.0	65.8	68.8	70.5	67.7	74.3	73.9	73.9	70.4
630	64.4	65.4	64.3	61.2	64.0	57.7	67.0	66.7	62.0	55.1	66.4	63.2	66.4	68.0	65.2	71.8	71.4	71.4	67.9
800	61.6	62.6	61.5	58.4	61.2	54.8	64.1	63.8	59.1	53.1	63.8	60.3	63.7	65.2	62.6	69.2	68.9	68.8	65.3
1000	58.8	59.7	58.6	55.4	58.2	51.7	61.0	60.9	55.9	49.7	60.9	57.3	61.0	62.1	59.8	66.5	66.1	66.0	62.4
1250	55.7	56.5	55.4	52.2	55.0	48.1	57.5	57.1	52.3	45.9	57.8	54.0	57.8	58.5	56.3	63.3	62.9	62.8	59.0
1500	52.3	53.0	51.9	48.4	51.5	44.2	53.8	52.5	48.2	41.9	54.4	50.3	54.4	54.3	52.7	59.6	59.2	59.1	55.3
2000	48.5	49.0	48.0	44.0	47.7	39.7	49.8	48.4	43.9	37.4	50.7	46.1	50.6	49.4	48.4	55.6	55.0	55.0	51.0
2500	43.8	44.2	43.3	39.4	43.8	34.7	44.8	43.3	39.7	32.7	46.0	41.5	45.6	44.4	43.5	50.7	50.2	50.1	45.8
3150	38.6	39.1	38.0	33.5	39.2	27.9	38.3	37.5	34.6	25.5	41.1	37.1	39.7	39.0	37.5	45.1	44.6	44.6	39.7
4000	32.0	32.1	31.6	24.7	33.0	18.4	28.6	28.0	28.6	15.7	34.4	30.5	32.4	30.3	29.8	38.3	37.0	37.5	32.3
5000	21.4	19.6	20.5	12.1	24.6	8.9	18.8	14.0	17.8	5.8	26.1	21.0	23.1	22.8	19.9	30.5	28.2	28.6	21.9
6300	9.5	7.1	9.4		14.6		8.9	.0	7.4		14.7	8.7	5.9	8.3	10.0	18.7	16.7	15.3	11.5
8000					4.6						3.2				.0	6.9	5.1	2.0	1.1
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 01
AIRCRAFT CODE 707
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE F4

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	63.0	62.9	62.4	59.5	62.4	57.6	63.7	62.4	61.6	56.6	64.9	62.4	64.4	65.0	62.6	68.6	67.7	68.1	64.5
250	60.8	60.7	60.3	57.3	60.3	55.5	61.7	60.4	59.4	54.5	62.7	60.3	62.4	62.9	60.5	66.5	65.6	66.0	62.4
315	58.7	58.5	58.1	55.2	58.1	53.3	59.6	58.3	57.3	52.3	60.6	58.1	60.3	60.8	58.4	64.4	63.5	63.9	60.3
400	56.5	56.3	55.9	53.0	56.0	51.1	57.5	56.2	55.0	50.2	58.4	55.9	58.1	58.7	56.3	62.3	61.4	61.8	58.1
500	54.2	54.1	53.7	50.7	53.8	48.9	55.3	54.0	52.7	47.9	56.2	53.7	55.9	56.5	54.2	60.1	59.2	59.5	55.9
630	51.9	51.7	51.4	48.4	51.5	46.6	53.1	51.7	50.4	45.7	53.8	51.4	53.6	54.3	52.0	57.8	57.0	57.2	53.7
800	49.5	49.3	49.0	46.0	49.2	44.2	50.7	49.3	48.0	43.4	51.5	49.0	51.3	51.9	49.7	55.4	54.7	54.9	51.4
1000	47.0	46.8	46.5	43.5	46.8	41.8	48.2	46.9	45.5	41.0	49.0	46.6	48.8	49.4	47.4	53.0	52.2	52.4	49.0
1250	44.4	44.1	43.9	40.9	44.3	39.2	45.5	44.2	43.0	38.5	46.4	44.1	46.2	46.7	44.7	50.3	49.5	49.7	46.3
1600	41.7	41.4	41.2	38.1	41.6	36.6	42.7	41.3	40.3	35.9	43.7	41.4	43.5	43.9	41.9	47.4	46.6	46.8	43.4
2000	38.8	38.4	38.4	35.3	38.9	33.8	39.6	38.2	37.6	33.2	40.9	38.6	40.7	40.9	39.0	44.4	43.6	43.7	40.5
2500	35.6	35.2	35.3	32.1	35.9	30.8	36.2	34.8	34.7	30.3	37.8	35.7	37.5	37.7	35.7	41.1	40.3	40.3	37.1
3150	32.1	31.7	32.0	28.7	32.8	27.5	32.4	31.2	31.6	27.1	34.5	32.5	33.9	34.2	32.1	37.6	36.7	36.6	33.5
4000	28.3	27.6	28.2	24.9	29.3	23.9	28.2	27.2	28.2	23.5	30.8	29.0	30.0	30.4	28.1	33.7	32.8	32.5	29.5
5000	24.0	23.5	24.0	20.6	25.5	19.8	23.8	23.1	24.2	19.5	26.7	25.1	25.7	26.4	23.7	29.4	28.5	28.1	25.1
6300	19.2	18.8	19.5	16.0	21.4	15.4	19.3	18.8	19.9	15.2	22.3	20.8	21.2	22.0	19.2	25.0	24.0	23.6	20.6
8000	14.4	14.2	15.1	11.4	16.9	11.2	15.9	14.6	16.0	11.2	17.9	16.5	17.4	18.1	15.6	21.0	20.4	19.7	16.7
10000	9.3	9.3	10.4	6.6	11.9	6.7	12.4	10.7	11.7	6.8	13.1	11.9	13.3	13.9	11.6	16.9	15.9	15.7	12.5
12500	3.9	4.2	5.3	1.4	6.4	1.7	8.7	6.5	6.9	2.1	7.9	6.8	9.0	9.6	7.5	12.5	11.5	11.6	8.3
16000					.2		5.0	2.4	1.6		2.2	1.1	4.6	5.3	3.0	7.9	7.1	7.3	3.9
20000							1.3						.2	1.2		3.3	2.7	3.0	
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 8F-707-001
RUN 01
AIRCRAFT CODE 707
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE G4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	64.4	64.5	63.8	60.8	65.5	57.6	64.8	64.7	61.6	56.6	66.8	63.9	64.4	65.0	63.6	69.4	68.8	69.0	65.5
250	62.3	62.3	61.6	58.7	63.4	55.5	62.7	62.6	59.4	54.5	64.6	61.7	62.4	62.9	61.6	67.3	66.7	66.9	63.4
315	60.1	60.1	59.5	56.5	61.3	53.3	60.7	60.6	57.3	52.3	62.5	59.6	60.3	60.8	59.5	65.2	64.6	64.8	61.3
400	57.9	57.9	57.3	54.3	59.1	51.1	58.6	58.4	55.0	50.2	60.3	57.4	58.1	58.7	57.4	63.1	62.5	62.6	59.2
500	55.7	55.6	55.0	52.1	56.9	48.9	56.4	56.2	52.7	47.9	58.0	55.2	55.9	56.5	55.2	60.9	60.3	60.4	57.0
630	53.3	53.3	52.7	49.8	54.6	46.6	54.1	54.0	50.4	45.7	55.7	52.9	53.6	54.3	53.0	58.6	58.0	58.1	54.7
800	51.0	50.9	50.4	47.4	52.3	44.2	51.8	51.6	48.0	43.4	53.4	50.5	51.3	51.9	50.8	56.3	55.7	55.8	52.4
1000	48.5	48.4	47.9	44.9	49.9	41.8	49.3	49.1	45.5	41.0	50.9	48.1	48.8	49.4	48.4	53.8	53.3	53.3	50.0
1250	45.9	45.7	45.3	42.3	47.4	39.2	46.6	46.4	43.0	38.5	48.3	45.5	46.2	46.7	45.8	51.1	50.6	50.5	47.3
1600	43.1	42.9	42.6	39.5	44.8	36.6	43.7	43.5	40.3	35.9	45.6	42.9	43.5	43.9	43.0	48.2	47.7	47.7	44.5
2000	40.2	40.0	39.8	36.6	42.0	33.8	40.7	40.5	37.6	33.2	42.8	40.1	40.7	40.9	40.0	45.2	44.7	44.6	41.5
2500	37.0	36.8	36.7	33.5	39.1	30.8	37.2	37.1	34.7	30.3	39.7	37.2	37.5	37.7	36.8	42.0	41.4	41.2	38.2
3150	33.6	33.3	33.3	30.0	35.9	27.5	33.4	33.4	31.6	27.1	36.4	34.0	33.9	34.2	33.2	38.4	37.8	37.5	34.5
4000	29.4	29.1	29.3	26.0	31.8	23.9	29.1	29.0	28.2	23.5	32.3	30.2	30.0	30.4	29.0	34.4	33.6	33.2	30.3
5000	24.6	24.5	24.9	21.4	27.4	19.8	24.5	24.5	24.2	19.5	27.9	25.0	25.7	26.4	24.4	29.9	29.1	28.7	25.7
6300	19.8	19.4	20.0	16.5	22.6	15.4	19.7	19.7	19.9	15.2	23.1	21.4	21.2	22.0	19.6	25.3	24.4	23.9	21.0
8000	14.7	14.5	15.3	11.7	17.5	11.2	16.1	15.3	16.0	11.2	18.3	16.8	17.4	18.1	15.8	21.2	20.3	19.9	16.9
10000	9.3	9.3	10.4	6.6	11.9	6.7	12.4	10.7	11.7	6.8	13.1	11.9	13.3	13.9	11.6	16.9	15.9	15.7	12.6
12500	3.9	4.2	5.3	1.4	6.4	1.7	8.7	6.5	6.9	2.1	7.9	5.8	8.0	9.6	7.5	12.5	11.5	11.5	8.3
16000					.2		5.0	2.4	1.8		2.2	1.1	4.6	5.3	3.0	7.9	7.1	7.3	3.9
20000							1.3						.2	1.2		3.3	2.7	3.0	
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 01
AIRCRAFT CODE 707
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE J4

P=PNLT A=AL T=ALT

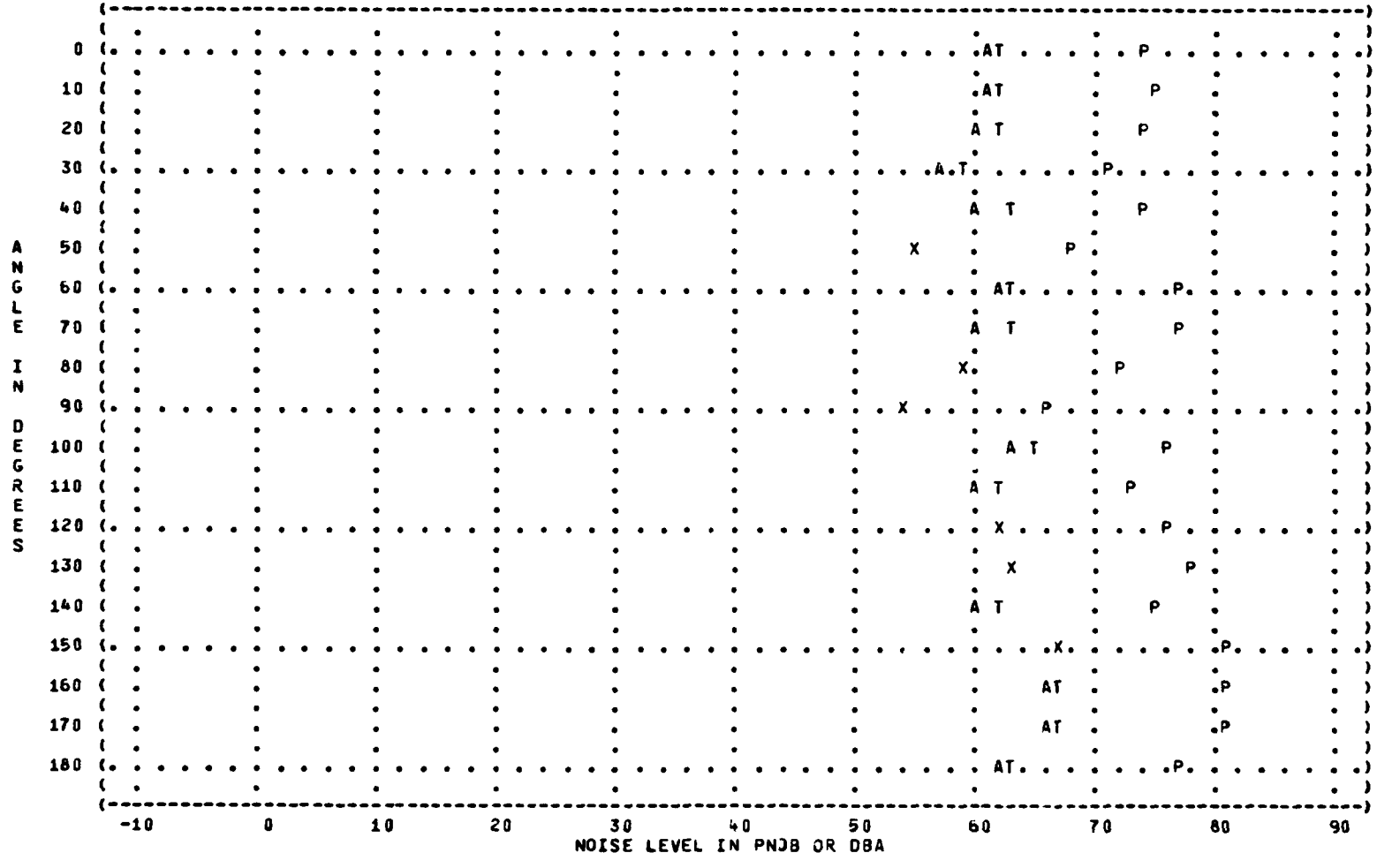


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 02
AIRCRAFT CODE 707
OPERATION CODE 00116
PROFILE VERSION A
20 NOV 81
PAGE C3

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
95% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	64	50<	53<	53<	64	69	66	69	69	69	72	70	70	73	73	77	79	76	80
63	63<	50<	53<	53<	63<	67	67	69	68	70	68	68	73	72	71<	67	69	68	73
80	62<	50<	53<	53<	61<	66<	65<	67<	67<	70<	71<	71<	73<	72<	69<	66<	67<	66<	70<
100	61<	50<	53<	53<	59<	64<	62<	65<	65<	69	73	73	73	72	68<	64<	65<	64<	67<
125	60<	50<	53<	53<	58<	63<	60<	63<	64<	66	69	69	70	69	66<	63<	63<	62<	64<
160	59<	50<	53<	53<	56<	62<	58<	60<	62<	65<	66<	65<	65<	66<	64<	62<	62<	60<	61<
200	58<	50<	53<	53<	54<	61<	56<	58<	61<	63	62<	61<	60	62	62<	61<	60<	58<	58<
250	57	50<	53<	53<	53<	59<	54<	56<	59<	61	58<	57	60	59	61	59	58<	55<	55<
315	53	50<	53<	53<	51<	58<	52<	53<	58<	56	55	53	52	54	53	56	56	53<	51<
400	51	50<	53	53	50	57	50	51	56	54	53	50	48	50	55<	54	55	51<	48
500	52	50	54	58	56	62	53	58	59	51	53	48	47	49	57	54	57	49	51
630	51	50	54	52	55	56	54	55	57	51	52	47	47	48	59	54	57	49	51
800	49	47	52	55	54	57	54	54	57	49	52	48	51	50	48	54	57	50	49
1000	51	50	57	62	58	60	55	60	62	49	50	49	51	51	52	54	56	49	49
1250	55	50	54	59	55	57	54	57	59	48	50	50	53	50	53	54	55	48	46
1600	57	55	55	58	58	59	54	57	63	48	49	51	52	50	53	52	51	45	45
2000	53	53	53	57	55	58	51	55	62	47	48	51	51	51	47	48	48	43	44
2500	46	44	51	54	54	56	48	53	59	44	47	46	49	47	45	45	45	42	43
3150	41	39	47	53	50	51	44	50	56	44	48	45	47	48	44	43	43	43	43
4000	36	36	39	43	42	43	38	42	48	41	45	42	43	43	40	42	42	42	43
5000	40	36	39	38	42	39	37	39	43	40	41	39	40	40	39	41	42	41	42
6300	39	37	39	37	40	35	35	37	39	39	37	37	37	38	37	39	40	40	41
8000	39	42	36	36	35	33	34	37	37	38	36	37	36	36	35	37	41	43	40
10000	34	32	34	34	44	27<	31	35	35	34	33	35	32	32	31	33	36	37	38
OVERALL	71	63	66	68	71	75	72	75	75	77	76	78	79	79	78	78	80	78	82

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
95% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 02
AIRCRAFT CODE 707
OPERATION CODE 00116
PROFILE VERSION A
20 NOV 81
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	78.5	75.0	77.4	80.1	80.0	82.3	77.2	80.6	82.1	78.7	80.7	80.4	80.7	80.5	78.9	78.5	80.2	76.6	79.5
250	76.2	72.7	75.2	77.9	77.8	80.1	75.0	78.4	82.8	76.3	78.3	78.0	78.4	76.1	76.7	76.0	77.7	74.1	76.9
315	74.0	70.4	72.9	75.6	75.4	77.8	72.7	76.1	80.6	74.0	75.9	75.6	76.0	75.8	74.4	73.5	75.1	71.6	74.3
400	71.6	68.0	70.5	73.3	73.0	75.5	70.4	73.7	78.3	71.5	73.5	73.2	73.5	73.3	72.0	71.2	72.6	69.0	71.7
500	69.2	65.5	68.1	70.9	70.6	73.1	68.0	71.3	75.9	69.0	71.0	70.6	71.0	70.8	69.6	68.7	70.0	66.3	69.0
630	66.6	62.9	65.6	68.3	68.0	70.6	65.4	68.8	73.3	66.4	68.4	68.0	68.4	68.2	67.1	66.2	67.3	63.5	66.2
800	63.9	60.2	62.8	65.6	65.2	68.0	62.7	66.1	70.7	63.5	65.5	65.0	65.3	65.3	64.5	63.5	64.5	60.6	63.3
1000	61.0	57.1	60.1	62.6	62.4	65.1	59.8	63.2	67.9	60.3	62.3	61.9	62.3	62.1	61.8	60.6	61.6	57.2	60.1
1250	57.8	54.0	57.1	59.8	59.4	62.1	56.6	60.1	64.8	56.6	58.7	58.2	58.7	58.5	58.7	57.3	58.6	53.3	56.7
1600	54.3	50.6	53.7	56.5	56.0	58.8	53.2	56.8	61.5	52.6	54.5	54.0	54.5	54.3	55.2	53.6	55.2	49.6	52.9
2000	50.5	46.6	50.0	53.0	52.3	55.2	48.9	53.1	58.0	48.6	49.5	48.8	49.8	49.8	51.4	49.4	51.4	45.5	47.8
2500	45.9	42.0	45.4	48.8	47.7	51.5	44.0	48.4	53.8	43.4	44.5	43.2	44.6	44.8	47.2	44.5	47.0	39.9	41.6
3150	40.3	36.9	40.0	44.4	42.7	46.6	38.3	43.3	49.1	37.2	38.8	37.3	38.4	38.4	42.2	39.2	41.8	32.6	33.9
4000	34.2	30.8	34.9	39.6	37.3	41.3	33.0	38.3	43.5	27.6	30.4	27.2	29.8	27.3	35.5	32.9	36.1	23.5	25.9
5000	26.5	21.6	28.4	33.9	30.8	35.3	25.5	32.5	37.2	16.1	19.2	12.6	18.4	18.5	26.8	24.6	29.6	13.7	16.1
6300	13.1	6.8	16.3	26.8	22.1	28.0	14.2	25.0	29.6	4.6	7.9		8.9	9.4	16.8	14.3	20.9	3.9	6.4
8000			9.2	15.6	6.4	18.8	3.0	13.7	19.3					.1	12.7	4.1	12.5		
10000				4.4		10.1		2.5	9.1						6.6		4.1		
12500						1.5									.5				
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
95% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 02
AIRCRAFT CODE 707
OPERATION CODE 00116
PROFILE VERSION A
20 NOV 81
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	79.6	78.2	78.7	82.1	82.3	84.2	77.2	82.4	86.2	78.7	80.7	80.3	81.4	80.5	81.1	78.5	80.2	77.4	79.5
250	77.4	73.9	76.5	79.8	80.0	82.0	75.0	80.1	83.9	76.3	78.3	78.5	79.0	78.1	78.8	76.0	77.7	74.9	76.9
315	75.1	71.5	74.2	77.5	77.7	79.8	72.7	77.9	81.7	74.0	75.9	76.1	76.6	75.8	76.5	73.5	75.1	72.4	74.3
400	72.8	69.2	71.8	75.2	75.3	77.4	70.4	75.5	79.4	71.5	73.5	73.7	74.2	73.3	74.2	71.2	72.6	69.8	71.7
500	70.4	66.7	69.4	72.8	72.8	75.0	68.0	73.1	77.0	69.0	71.0	71.2	71.7	70.8	71.7	68.7	70.0	67.1	69.0
630	67.8	64.0	66.9	70.2	70.2	72.5	65.4	70.5	74.4	66.4	68.4	68.5	69.1	68.2	69.3	66.2	67.3	64.3	66.2
800	65.1	61.3	64.1	67.5	67.5	69.9	62.7	67.9	71.8	63.5	65.5	65.6	66.2	65.3	66.6	63.5	64.5	61.4	63.3
1000	62.1	58.3	61.4	64.7	64.6	67.1	59.8	65.0	69.0	60.3	62.3	62.3	63.0	62.1	63.9	60.6	61.6	58.0	60.1
1250	59.0	55.2	58.4	61.7	61.6	64.0	56.6	61.9	65.9	56.6	58.7	58.7	59.4	58.5	60.8	57.3	58.6	54.1	56.7
1600	55.5	51.8	55.0	58.5	58.3	60.7	53.2	58.6	62.6	52.6	54.5	54.5	55.2	54.3	57.4	53.6	55.2	50.4	52.9
2000	51.7	47.8	51.3	54.9	54.5	57.2	48.9	54.5	59.1	48.6	49.5	49.3	50.5	49.8	53.6	49.4	51.4	46.3	47.8
2500	47.1	43.2	46.7	50.7	49.9	53.4	44.0	50.2	54.9	43.4	44.5	43.8	45.3	44.8	49.3	44.5	47.0	40.7	41.6
3150	41.4	38.1	41.9	46.3	45.0	48.5	38.3	45.0	50.2	37.2	38.8	37.8	39.1	38.4	44.3	39.2	41.8	33.4	33.9
4000	35.1	31.8	35.9	41.1	39.1	42.3	33.0	39.7	44.3	27.6	30.4	27.6	30.3	27.3	37.2	32.9	36.1	24.1	25.9
5000	27.2	22.3	29.1	35.0	32.2	36.5	25.5	33.6	37.9	16.1	19.2	13.0	18.8	18.6	30.0	24.6	29.6	14.2	16.1
6300	13.6	7.3	19.3	27.6	23.0	28.8	14.2	25.7	30.0	4.6	7.9		7.2	9.4	19.7	14.3	20.9	4.2	6.4
8000	.0		9.4	16.0	8.9	19.2	3.0	14.1	19.5					.1	13.1	4.1	12.5		
10000				4.4		10.1		2.5	9.1						0.6		4.1		
12500						1.5									.5				
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
95% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 02
AIRCRAFT CODE 707
OPERATION CODE 00116
PROFILE VERSION A
20 NOV 81
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	65.2	62.8	65.9	69.3	67.6	69.9	64.8	68.3	72.2	64.0	65.0	64.4	69.3	64.9	65.8	65.0	66.4	61.5	62.2
250	63.1	60.6	63.8	67.2	65.5	67.8	62.7	66.2	70.1	62.0	62.9	62.3	63.2	62.8	63.8	62.9	64.3	59.4	60.2
315	60.9	58.5	61.7	65.0	63.3	65.6	60.6	64.1	67.9	59.9	60.8	60.2	61.1	60.7	61.7	60.8	62.2	57.3	58.0
400	58.8	56.3	59.5	62.9	61.1	63.5	58.5	61.9	65.7	57.8	58.7	58.1	59.0	58.6	59.6	58.7	60.1	55.1	55.9
500	56.5	54.1	57.3	60.6	58.9	61.3	56.3	59.7	63.5	55.5	56.5	55.9	56.8	56.4	57.4	56.5	57.9	52.9	53.7
630	54.2	51.8	55.0	58.4	56.6	59.0	54.0	57.5	61.2	53.2	54.1	53.6	54.4	54.0	55.1	54.2	55.7	50.6	51.5
800	51.9	49.4	52.7	56.0	54.2	56.7	51.7	55.1	58.6	50.8	51.7	51.1	52.0	51.6	52.6	51.9	53.4	48.2	49.1
1000	49.4	47.0	50.3	53.6	51.8	54.3	49.3	52.7	56.3	48.2	49.1	48.5	49.4	49.0	50.4	49.5	51.1	45.8	46.8
1250	46.8	44.4	47.7	51.1	49.3	51.7	46.8	50.2	53.9	45.5	46.4	45.6	46.6	46.2	47.9	46.9	48.7	43.2	44.2
1500	44.1	41.7	45.1	48.5	46.6	49.1	44.2	47.6	50.9	42.6	43.5	42.6	43.6	43.2	45.2	44.3	46.1	40.5	41.5
2000	41.2	38.9	42.4	45.7	43.8	46.4	41.4	44.8	48.0	39.5	40.4	39.4	40.5	40.0	42.5	41.5	43.4	37.6	38.5
2500	38.1	35.8	39.4	42.7	40.8	43.4	38.5	41.9	44.9	36.1	37.1	35.9	37.0	36.5	39.5	38.5	40.5	34.4	35.3
3150	34.7	32.4	36.1	39.5	37.5	40.1	35.3	38.6	41.5	32.4	33.5	32.0	33.3	32.9	36.2	35.2	37.4	31.0	31.8
4000	30.9	28.7	32.6	36.0	34.0	36.4	31.7	35.1	37.8	28.4	29.6	27.9	29.4	28.9	32.5	31.5	33.9	27.3	27.9
5000	26.7	24.5	28.6	32.1	30.0	32.4	27.8	31.2	33.7	24.2	25.4	23.6	25.2	24.7	28.4	27.5	29.9	23.2	23.8
6300	22.2	19.9	24.2	27.8	25.6	28.0	23.5	26.9	29.2	19.7	21.0	19.1	20.8	20.2	24.0	23.2	25.6	18.9	19.4
8000	17.6	15.4	19.9	23.4	21.3	23.9	19.3	22.6	24.7	16.0	17.2	15.1	15.7	15.3	20.2	19.1	21.7	15.0	15.8
10000	12.8	10.6	15.2	18.5	16.5	19.5	14.7	18.0	19.8	12.1	13.3	11.1	12.5	12.2	16.2	14.8	17.4	10.9	12.1
12500	7.7	5.5	10.0	13.2	11.4	14.7	9.7	12.9	14.6	8.1	9.2	7.2	8.3	8.1	11.9	10.2	12.9	6.7	8.3
16000	2.5	.2	4.4	7.4	5.8	9.6	4.3	7.5	9.1	4.0	5.1	3.4	4.3	4.3	7.3	5.5	8.0	2.4	4.5
20000				1.2		4.2		1.9	3.3	.0	1.1		.7	.6	2.6	.8	3.1		1.2
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 02
AIRCRAFT CODE 707
OPERATION CODE 00116
PROFILE VERSION A
20 NOV 81
PAGE G3

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
95% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	66.3	63.9	67.2	71.2	69.8	71.0	64.8	70.1	73.3	64.0	65.0	64.9	65.0	64.9	68.0	65.0	66.4	62.3	62.2
250	64.2	61.8	65.1	69.1	67.7	69.7	62.7	68.0	71.2	62.0	62.9	62.8	63.9	62.8	65.9	62.9	64.3	60.2	60.2
315	62.1	59.6	63.0	66.9	65.6	67.6	60.6	65.9	69.0	59.9	60.8	60.8	61.8	60.7	63.8	60.8	62.2	58.1	58.0
400	59.9	57.4	60.8	64.8	63.4	65.4	58.5	63.7	66.8	57.0	58.7	58.6	59.7	58.6	61.7	58.7	60.1	55.9	55.9
500	57.7	55.2	58.6	62.5	61.1	63.2	56.3	61.6	64.6	55.5	56.5	56.4	57.4	56.4	59.5	56.5	57.9	53.7	53.7
630	55.4	52.9	56.3	60.3	58.8	60.9	54.0	59.2	62.3	53.2	54.1	54.1	55.1	54.0	57.3	54.2	55.7	51.4	51.5
800	53.0	50.6	54.0	57.9	56.5	58.6	51.7	56.9	59.9	50.8	51.7	51.6	52.7	51.5	54.9	51.9	53.4	49.0	49.1
1000	50.5	48.1	51.6	55.5	54.0	56.2	49.3	54.5	57.4	48.2	49.1	49.0	50.1	49.0	52.5	49.5	51.1	46.6	46.8
1250	47.9	45.5	49.0	53.0	51.5	53.7	46.8	52.0	54.7	45.5	46.4	46.2	47.3	46.2	50.0	46.9	48.7	44.0	44.2
1600	45.2	42.9	46.4	50.4	48.8	51.1	44.2	49.4	52.0	42.6	43.5	43.2	44.3	43.2	47.4	44.3	46.1	41.3	41.5
2000	42.3	40.0	43.6	47.6	46.0	48.3	41.4	46.6	49.1	39.5	40.4	39.9	41.1	40.0	44.6	41.5	43.4	38.4	38.5
2500	39.2	36.9	40.7	44.6	43.0	45.3	38.5	43.7	46.0	36.1	37.1	36.4	37.7	36.5	41.6	38.5	40.5	35.2	35.3
3150	35.8	33.6	37.4	41.4	39.8	42.0	35.3	40.4	42.6	32.4	33.5	32.6	34.0	32.3	38.4	35.2	37.4	31.8	31.8
4000	31.8	29.6	33.6	37.5	35.7	38.0	31.7	36.5	38.6	28.4	29.6	28.3	29.9	28.3	34.2	31.5	33.9	27.9	27.9
5000	27.4	25.1	29.3	33.2	31.3	33.5	27.8	32.2	34.3	24.2	25.4	24.0	25.6	24.7	29.6	27.5	29.9	23.7	23.8
6300	22.6	20.3	24.8	28.6	26.5	28.8	23.5	27.6	29.6	19.7	21.0	19.3	21.1	20.2	24.8	23.2	25.6	19.2	19.4
8000	17.9	15.6	20.2	23.8	21.7	24.3	19.3	23.0	24.9	16.0	17.2	15.2	16.8	16.3	20.6	19.1	21.7	15.2	15.8
10000	12.8	10.6	15.2	18.5	16.5	19.5	14.7	18.0	19.8	12.1	13.3	11.1	12.5	12.2	16.2	14.8	17.4	10.9	12.1
12500	7.7	5.5	10.0	13.2	11.4	14.7	9.7	12.9	14.6	8.1	9.2	7.2	8.3	8.1	11.9	10.2	12.9	6.7	8.3
16000	2.5	.2	4.4	7.4	5.8	9.6	4.3	7.5	9.1	4.0	5.1	3.4	4.3	4.3	7.3	5.5	8.0	2.4	4.6
20000				1.2		4.2		1.9	3.3	.0	1.1		.7	.5	2.6	.8	3.1		1.2
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
95% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 02
AIRCRAFT CODE 707
OPERATION CODE 00115
PROFILE VERSION A
20 NOV 81
PAGE J3

P=PNLT A=AL T=ALT

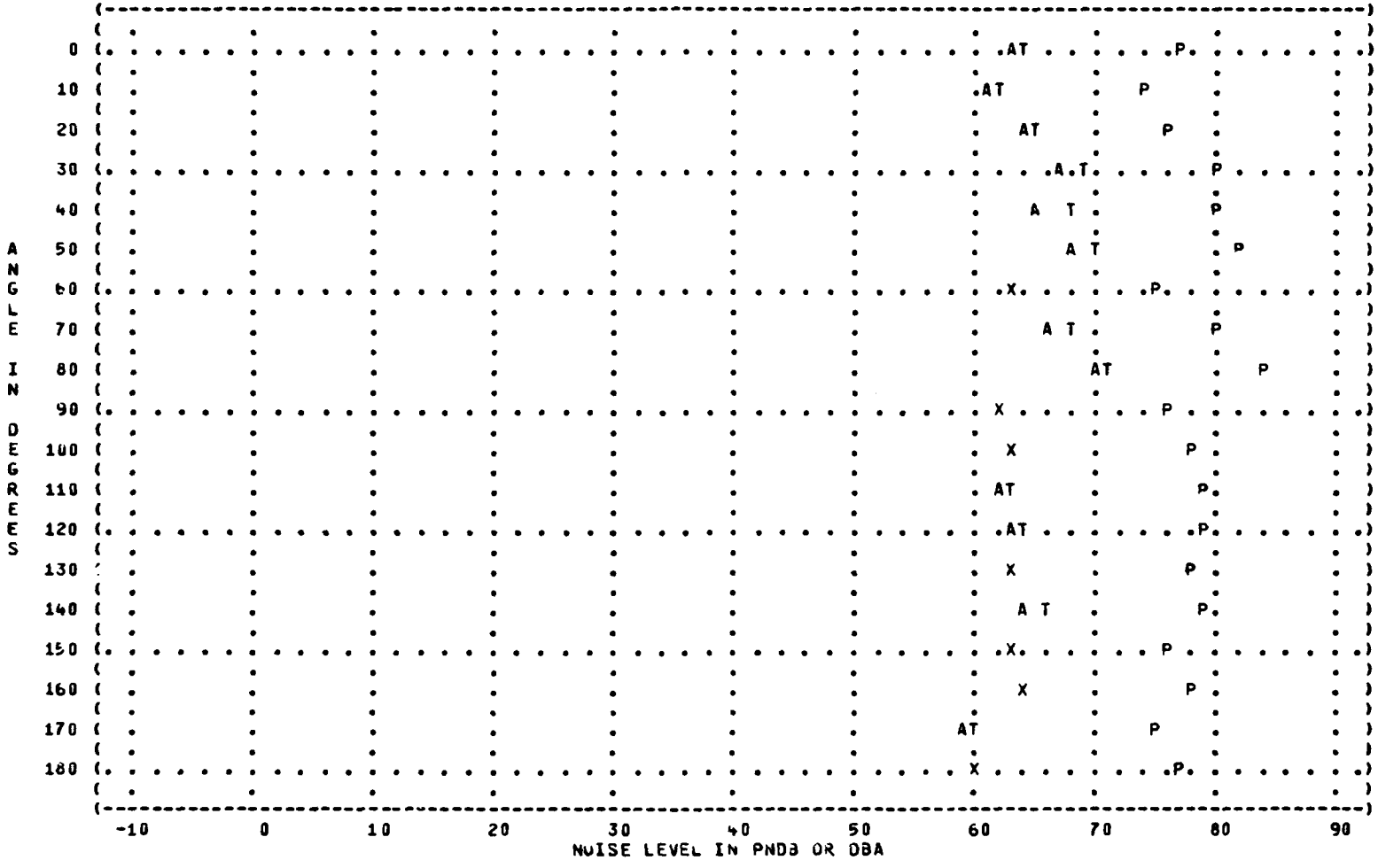


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 03
AIRCRAFT CODE 707
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE C2

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	67	66	68	69	68	69	71	72	73	75	75	75	78	78	79	84	85	85	76
63	67<	65<	69<	68<	66<	67<	69<	69	69	72	74	74	76	72	72	75	78	78	67
80	67<	64<	69<	67<	65<	65<	68<	67<	68<	73<	74<	75<	76<	73<	71<	72<	74<	74<	65<
100	67<	63<	70	66<	63<	63<	66<	64<	67<	74	74	75	75	75	69	69	71<	71<	63<
125	67	62<	65	65	62<	61<	65	62<	66	71	71	71	71	72	69	67	68	68	62<
160	64<	61<	62<	62<	60<	59<	62<	60<	63<	66<	70<	67	67	67	68	65<	64<	64<	60<
200	61<	60	60<	58<	59<	56<	59<	57<	59<	62	69	65	67	71	69	62	60	60	58<
250	59	60	58	55<	57	54<	56<	55<	56<	59	62	64	69	70	70	67	62	62	56<
315	55	59	54	52<	54<	52	53	53	53	54	56	58	59	62	61	58	57	57	55
400	55	57	51	49	50	51	51	51	51	50	53	54	55	58	53	54	57	57	60
500	56	60	55	54	55	54	50	50	51	49	50	53	55	57	51	56	59	59	61
630	58	61	53	52	54	57	50	50	51	50	51	52	54	56	52	58	59	59	61
800	56	62	51	51	51	55	53	53	52	51	50	52	55	54	53	57	56	56	55
1000	57	59	52	52	52	54	47	47	48	50	52	52	55	54	54	58	56	56	49
1250	60	58	55	55	55	55	50	50	49	52	51	54	55	55	56	60	59	59	57
1600	62	59	58	56	56	56	54	54	54	52	50	54	55	56	57	58	55	55	57
2000	55	56	53	52	51	50	49	49	49	49	49	53	54	55	52	53	52	52	54
2500	49	51	47	47	47	48	45	45	45	45	47	50	52	50	48	50	50	50	57
3150	47	49	38	37	40	47	45	45	45	47	46	48	48	47	47	51	49	49	55
4000	45	41	37	37	42	45	43	43	44	45	44	46	44	45	47	48	47	47	48
5000	44	41	39	37	44	44	44	44	44	46	44	45	44	46	46	48	47	47	44
6300	45	39	38	38	38	39	38	39	43	44	42	42	42	44	44	45	45	45	46
8000	43	38	38	43	42	37	42	40	42	44	41	41	41	43	43	44	44	44	42
10000	40	35	35	35	37	34	35	35	38	41	38	38	37	39	39	40	40	40	44
OVERALL	75	74	76	75	73	74	76	75	77	81	81	82	83	82	82	85	86	86	78

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 03
AIRCRAFT CODE 707
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE 02

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	83.2	82.0	80.0	78.7	78.9	79.2	78.3	77.9	78.0	82.1	82.9	83.9	85.0	85.2	84.5	85.7	85.9	85.9	83.1
250	80.9	79.7	77.7	76.4	76.6	77.0	76.0	75.6	76.3	79.7	80.5	81.5	82.6	83.0	82.2	83.2	83.4	83.4	80.8
315	78.6	77.5	75.5	74.1	74.3	74.7	73.6	73.3	74.0	77.2	78.0	79.1	80.2	80.7	79.9	80.6	80.8	80.8	78.5
400	76.3	75.2	73.1	71.8	72.0	72.4	71.3	71.0	71.6	74.8	75.6	76.7	77.8	78.3	77.5	78.0	78.2	78.2	76.1
500	73.9	72.8	70.7	69.3	69.5	70.0	68.8	68.5	69.2	72.2	73.1	74.2	75.3	75.9	75.1	75.4	75.5	75.5	73.6
630	71.4	70.3	68.2	66.7	67.0	67.4	66.2	65.9	66.6	69.6	70.4	71.5	72.7	73.2	72.4	72.7	72.8	72.8	71.0
800	68.8	67.7	65.5	64.1	64.3	64.7	63.5	63.2	63.8	66.7	67.6	68.7	69.9	70.4	69.5	69.9	70.0	70.0	68.2
1000	65.9	64.9	62.7	61.1	61.3	61.8	60.5	60.2	60.8	63.5	64.3	65.5	66.7	67.3	66.5	66.9	67.1	67.1	65.2
1250	62.9	61.9	59.5	57.9	58.1	58.7	57.2	56.9	57.5	59.8	60.8	62.0	63.4	64.0	63.1	63.8	64.0	64.0	62.1
1600	59.6	58.7	56.0	54.4	54.7	55.2	53.6	53.3	53.7	55.7	56.7	58.0	59.7	60.3	59.3	60.4	60.6	60.6	58.6
2000	55.9	55.2	52.2	50.5	50.8	51.5	49.3	49.0	49.5	50.6	51.8	53.3	55.3	56.1	54.9	56.0	56.2	56.2	54.8
2500	51.8	51.0	47.6	45.5	45.7	46.5	44.1	43.8	44.4	45.1	46.3	48.2	50.2	50.9	49.9	51.5	51.2	51.2	50.6
3150	47.0	46.6	42.2	39.4	39.9	40.7	37.6	37.0	38.3	38.7	40.1	42.4	44.7	45.1	44.3	46.2	46.1	46.1	45.4
4000	40.9	41.8	35.6	33.4	33.9	35.4	30.4	30.4	30.1	29.8	32.2	34.5	38.2	38.6	37.2	39.9	39.6	39.6	40.4
5000	34.5	36.3	27.9	25.5	25.9	28.6	19.3	19.3	19.0	18.2	20.0	24.1	29.7	30.9	28.9	33.1	32.5	32.5	34.0
6300	25.9	29.8	16.7	12.7	15.1	20.3	7.6	7.6	6.9	6.6	7.9	13.7	19.4	19.4	15.9	24.5	23.7	23.7	26.3
8000	14.9	21.3	5.5		4.3	7.8						3.3	9.1	6.8	2.8	14.2	15.1	15.1	16.8
10000	4.0	11.4														4.0	6.5	6.5	10.3
12500		1.5																	3.8
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 03
AIRCRAFT CODE 707
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE E2

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	84.7	82.0	81.2	79.8	80.1	80.4	79.7	79.4	80.0	82.1	82.9	83.9	85.9	85.8	85.4	86.9	87.0	87.0	84.6
250	82.4	79.7	78.9	77.5	77.9	78.1	77.4	77.1	77.7	79.7	80.5	81.5	83.5	83.2	83.1	84.3	84.4	84.4	82.3
315	80.1	77.5	76.7	75.2	75.5	75.8	75.1	74.7	75.4	77.2	78.0	79.1	81.1	81.2	80.8	81.8	81.9	81.9	79.9
400	77.8	75.2	74.3	72.9	73.2	73.5	72.7	72.4	73.0	74.8	75.6	76.7	78.7	78.9	78.4	79.2	79.3	79.3	77.5
500	75.4	72.8	71.9	70.4	70.8	71.1	70.2	69.9	70.5	72.2	73.1	74.2	76.2	76.4	76.0	76.5	76.6	76.6	75.1
630	72.9	70.3	69.4	67.8	68.2	68.6	67.7	67.4	67.9	69.6	70.4	71.5	73.6	73.7	73.3	73.8	73.9	73.9	72.5
800	70.2	67.7	66.7	65.2	65.5	65.8	65.0	64.7	65.2	66.7	67.6	68.7	70.8	70.9	70.4	71.0	71.1	71.1	69.7
1000	67.4	64.9	63.9	62.2	62.5	62.9	61.9	61.6	62.2	63.5	64.3	65.5	67.7	67.9	67.4	68.1	68.2	68.2	66.7
1250	64.4	61.9	60.7	59.1	59.3	59.6	58.6	58.3	58.8	59.8	60.8	62.0	64.3	64.6	64.0	65.0	65.1	65.1	63.5
1600	61.1	58.7	57.2	55.5	55.9	56.4	55.0	54.7	55.1	55.7	56.7	58.0	60.6	60.9	60.2	61.5	61.7	61.7	60.1
2000	57.4	55.2	53.4	51.6	52.0	52.6	50.8	50.5	50.9	50.6	51.8	53.3	56.3	56.6	55.9	57.2	57.3	57.3	56.3
2500	53.3	51.0	48.8	46.7	46.9	47.6	45.6	45.3	45.8	45.1	46.3	48.2	51.1	51.5	50.9	52.7	52.3	52.3	52.1
3150	48.5	46.6	43.4	40.5	41.1	41.9	39.0	38.4	39.7	38.7	40.1	42.4	45.6	45.7	45.2	47.4	47.1	47.1	46.9
4000	42.0	41.8	38.6	34.3	34.6	36.3	31.2	31.5	31.2	29.8	32.2	34.5	39.9	39.1	37.9	40.8	40.5	40.5	41.6
5000	35.3	36.3	28.6	26.2	26.7	29.3	20.2	20.2	19.8	18.2	20.0	24.1	30.2	31.1	29.5	33.8	33.1	33.1	34.8
6300	26.5	29.8	17.2	13.2	15.6	20.8	8.2	8.2	7.4	6.6	7.9	13.7	19.7	19.5	16.2	24.9	24.2	24.2	26.9
8000	15.2	21.3	5.7	.2	4.5	8.0						3.3	9.3	6.3	3.0	14.5	15.4	15.4	17.1
10000	4.0	11.4														4.0	6.5	6.5	10.3
12500		1.5																	3.9
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 03
AIRCRAFT CODE 707
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE F2

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	69.8	70.3	66.3	65.1	65.4	66.1	63.7	63.5	64.0	65.7	67.1	67.7	63.5	70.2	69.4	69.8	69.1	69.1	69.2
250	67.7	68.2	64.2	63.0	63.3	64.0	61.6	61.3	61.9	63.6	65.1	65.7	67.4	68.2	67.3	67.7	67.0	67.0	67.0
315	65.5	66.1	62.1	60.9	61.2	61.9	59.5	59.2	59.7	61.5	63.0	63.6	65.4	66.1	65.2	65.6	64.9	64.9	64.9
400	63.4	64.0	59.9	58.8	59.0	59.7	57.3	57.0	57.6	59.4	60.9	61.4	63.2	64.0	63.1	63.5	62.8	62.8	62.7
500	61.1	61.8	57.7	56.5	56.8	57.5	55.1	54.8	55.3	57.2	58.6	59.2	61.0	61.8	60.9	61.3	60.6	60.6	60.5
630	58.9	59.6	55.4	54.3	54.5	55.2	52.8	52.5	53.0	54.8	56.2	56.9	58.7	59.4	58.5	59.0	58.4	58.4	58.2
800	56.5	57.3	53.1	51.9	52.2	52.9	50.4	50.1	50.6	52.4	53.7	54.5	56.3	56.9	56.0	56.6	56.1	56.1	55.9
1000	54.1	54.9	50.6	49.4	49.7	50.5	47.9	47.7	48.1	49.8	51.1	51.9	53.7	54.3	53.3	54.2	53.7	53.7	53.5
1250	51.5	52.5	48.0	46.9	47.2	48.0	45.3	45.1	45.4	47.0	48.2	49.1	50.9	51.5	50.5	51.6	51.3	51.3	51.0
1500	48.9	49.9	45.2	44.2	44.5	45.4	42.5	42.3	42.6	44.0	45.2	46.1	48.0	48.5	47.5	48.9	48.7	48.7	48.4
2000	46.1	47.3	42.3	41.3	41.7	42.7	39.6	39.4	39.6	40.8	41.9	42.9	44.8	45.4	44.3	46.0	45.8	45.8	45.7
2500	43.1	44.4	39.2	38.2	38.7	39.7	36.4	36.3	36.4	37.3	38.3	39.5	41.4	41.9	40.8	42.9	42.8	42.8	42.7
3150	39.8	41.3	35.6	34.9	35.4	36.6	33.0	32.9	33.0	33.6	34.4	35.7	37.8	38.2	37.1	39.6	39.5	39.5	39.4
4000	36.1	37.9	32.0	31.2	31.7	33.0	29.2	29.2	29.2	29.6	30.2	31.7	33.6	34.1	33.0	35.9	35.8	35.8	35.7
5000	32.1	33.9	27.9	27.1	27.6	29.0	25.1	25.1	25.1	25.4	26.0	27.4	29.6	29.8	28.8	31.8	31.7	31.7	31.5
6300	27.6	29.6	23.3	22.6	23.2	24.0	20.6	20.6	20.6	20.9	21.5	22.9	25.2	25.3	24.3	27.5	27.3	27.3	27.0
8000	23.2	25.6	19.0	18.3	18.9	20.5	16.5	16.4	16.5	17.0	17.8	19.0	21.3	21.5	20.2	23.3	23.4	23.4	23.2
10000	18.5	21.2	14.4	13.7	14.4	16.0	12.2	12.1	12.2	13.0	14.0	14.9	17.2	17.5	15.9	18.9	19.3	19.3	19.1
12500	13.5	16.4	9.6	8.9	9.6	11.1	7.6	7.5	7.8	9.1	10.3	10.9	13.0	13.4	11.7	14.4	15.1	15.1	14.7
16000	8.3	11.1	4.8	3.9	4.6	5.9	3.0	2.8	3.4	5.3	6.6	7.1	9.0	9.4	7.6	9.9	10.8	10.8	9.9
20000	2.9	5.2	.1			.4				1.8	3.2	3.4	5.1	5.4	3.8	5.8	6.8	6.8	4.8
25000												.0	1.5	1.5	.2	2.1	3.1	3.1	

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-881
RUN 03
AIRCRAFT CODE 707
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
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DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	71.2	70.3	67.5	66.3	66.6	67.2	65.2	64.9	65.3	65.7	67.1	67.7	70.4	70.8	70.3	71.0	70.2	70.2	70.6
250	69.1	68.2	65.4	64.2	64.5	65.1	63.1	62.8	63.2	63.6	65.1	65.7	68.4	68.7	68.2	68.9	68.1	68.1	68.5
315	67.0	66.1	63.3	62.0	62.4	63.0	60.9	60.6	61.1	61.5	63.0	63.6	66.3	66.5	66.2	66.8	66.0	66.0	66.4
400	64.8	64.0	61.1	59.9	60.2	60.9	58.6	58.5	58.3	59.4	60.9	61.4	64.2	64.5	64.0	64.6	63.9	63.9	64.2
500	62.6	61.3	58.9	57.7	58.0	58.6	56.5	56.2	56.7	57.2	58.6	59.2	62.0	62.3	61.8	62.4	61.7	61.7	62.0
630	60.4	59.6	56.6	55.4	55.7	56.4	54.2	53.9	54.4	54.8	56.2	56.9	59.6	59.9	59.4	60.1	59.5	59.5	59.7
800	58.0	57.3	54.3	53.0	53.4	54.1	51.6	51.5	52.0	52.4	53.7	54.5	57.2	57.5	56.9	57.8	57.2	57.2	57.3
1000	55.6	54.9	51.8	50.6	50.9	51.7	49.3	49.1	49.4	49.6	51.1	51.9	54.6	54.8	54.3	55.3	54.8	54.8	54.9
1250	53.0	52.5	49.2	48.0	48.4	49.2	46.7	46.5	46.8	47.0	48.2	49.1	51.8	52.0	51.4	52.8	52.3	52.3	52.4
1600	50.4	49.9	46.4	45.3	45.7	46.5	43.9	43.7	44.0	44.0	45.2	46.1	48.9	49.1	48.4	50.1	49.7	49.7	49.9
2000	47.6	47.3	43.5	42.4	42.9	43.8	41.0	40.8	41.0	40.8	41.9	42.9	45.7	45.9	45.2	47.2	46.9	46.9	47.2
2500	44.6	44.4	40.4	39.3	39.9	40.9	37.8	37.7	37.6	37.3	38.3	39.5	42.3	42.5	41.7	44.1	43.9	43.9	44.2
3150	41.3	41.3	37.0	36.0	36.6	37.7	34.4	34.3	34.3	33.6	34.4	35.7	38.7	38.7	38.0	40.7	40.5	40.5	40.9
4000	37.3	37.9	33.0	32.1	32.7	33.9	30.4	30.3	30.3	29.6	30.2	31.7	34.5	34.6	33.8	36.8	36.6	36.6	36.9
5000	32.9	33.9	28.6	27.8	28.3	29.7	25.9	25.9	25.9	25.4	26.0	27.4	30.2	30.1	29.4	32.5	32.3	32.3	32.4
6300	28.2	29.6	23.8	23.1	23.7	25.1	21.2	21.1	21.1	20.9	21.5	22.9	25.5	25.5	24.7	27.9	27.7	27.7	27.5
8000	23.5	25.6	19.2	18.5	19.2	20.7	16.6	16.7	16.8	17.0	17.8	19.0	21.4	21.5	20.4	23.6	23.6	23.6	23.5
10000	18.5	21.2	14.4	13.7	14.4	16.0	12.2	12.1	12.2	13.0	14.0	14.9	17.2	17.5	15.9	18.9	19.3	19.3	19.1
12500	13.5	16.4	9.6	8.9	9.6	11.1	7.5	7.5	7.8	9.1	10.3	10.9	13.0	13.4	11.7	14.4	15.1	15.1	14.7
16000	8.3	11.1	4.8	3.9	4.6	5.9	3.0	2.8	3.4	5.3	6.6	7.1	9.0	9.4	7.6	9.9	10.8	10.8	9.9
20000	2.9	5.2	.1			.4				1.8	3.2	3.4	5.1	5.4	3.8	6.8	6.8	6.8	4.8
25000												.0	1.5	1.6	.2	2.1	3.1	3.1	

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 03
AIRCRAFT CODE 707
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE J2

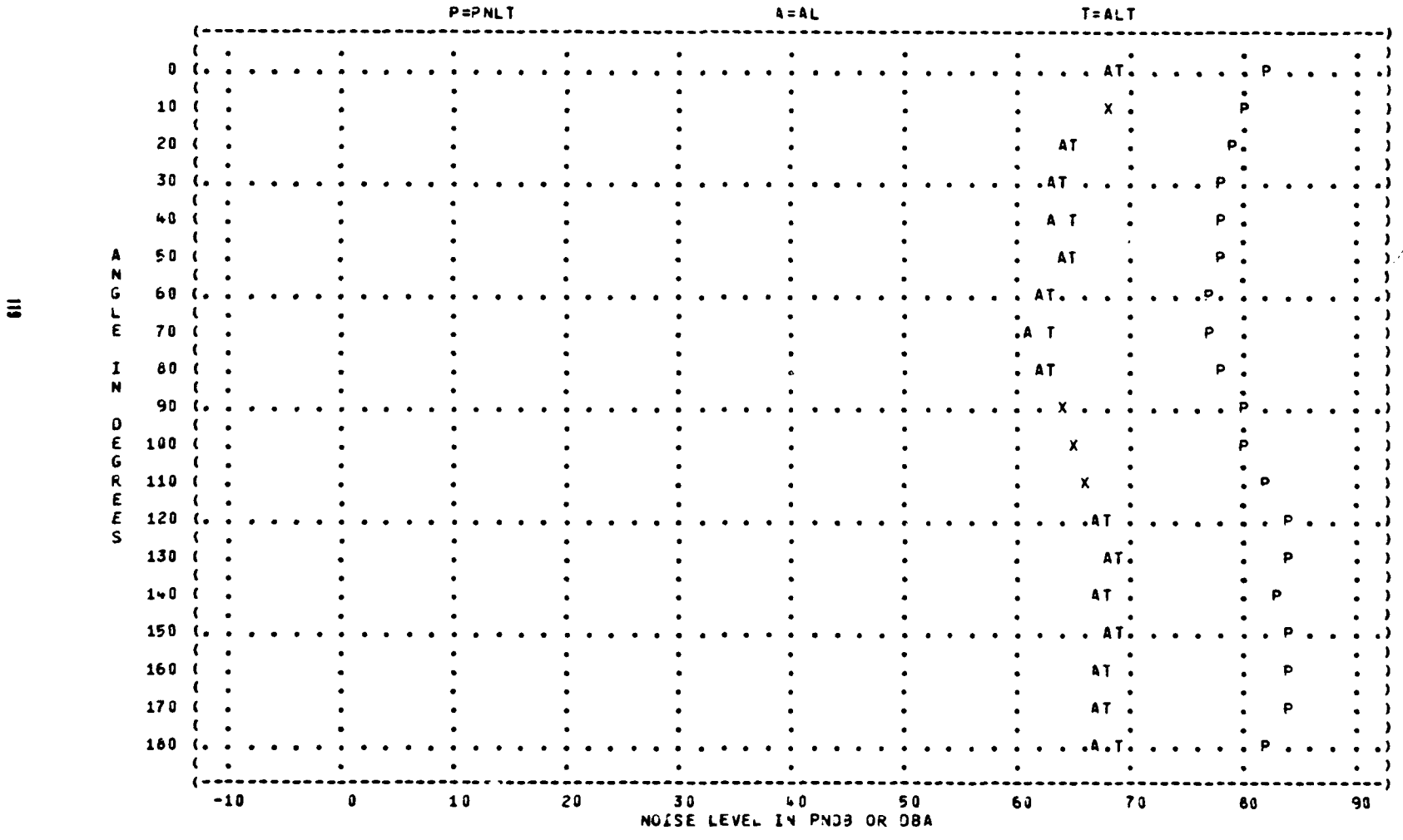

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 04
AIRCRAFT CODE 707
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE C1

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	78	74	76	76	83	85	75	86	83	82	85	89	90	93	95	96	97	94	101
63	7>	73	72	75	77	78	72	80	79	82	82	83	84	85	89	91	92	90	95
80	74	73<	73<	74<	73	74<	70<	75	75	80	83	83	82	81	79	82	84	81	85
100	76	73	73	72	71	70	69<	70	73	79	80	83	81	79	79	80	81	77	80
125	75	74	70	71	68	71	67<	72	70	75	77	79	79	78	77	75	77	74	75
160	70	67	66	67	66<	67	65<	67<	66	72	75	78	76	75	75	71	72	69	69
200	67	63	62	62	64	64	63	62	63	69	72	73	74	74	74	69	71	67	68
250	67	65	63	61	62	63	64	59	60	66	70	74	76	75	75	74	70	64	67
315	62	64	58	57	56	54	53	53	55	61	63	69	68	67	69	66	66	62	64
400	61	68	59	55	56	54	51	51	52	57	59	62	61	63	61	62	64	61	63
500	60	69	61	61	62	61	59	59	55	57	58	60	60	62	60	61	64	62	62
630	65	69	61	62	63	65	62	61	59	59	58	58	60	62	63	62	63	63	60
800	64	70	60	60	61	63	54	60	59	60	60	60	61	61	63	62	62	62	59
1000	64	66	61	60	61	62	59	58	57	59	60	61	62	61	64	64	64	61	59
1250	67	66	64	63	65	64	60	60	58	60	60	62	64	63	66	67	67	62	59
1600	70	68	65	65	65	66	59	59	61	59	59	62	64	64	67	65	64	60	56
2000	62	65	59	60	59	58	54	54	56	56	57	61	62	63	62	59	59	56	53
2500	53	56	54	54	54	53	47	48	52	54	54	57	59	56	65	56	61	55	51
3150	45	54	50	46	47	48	46	46	53	54	52	54	55	53	53	53	54	56	50
4000	45	49	48	43	45	46	45	45	52	52	49	51	50	50	57	51	58	54	49
5000	49	49	49	45	46	46	45	45	52	53	49	50	49	50	53	50	49	51	48
6300	49	47	49	44	44	44	45	43	50	51	47	48	47	48	60	48	47	49	47
8000	48	46	45	45	45	45	45	44	43	51	47	47	47	48	61	47	47	46	46
10000	45	43	42	40	41	41	38	40	46	47	44	44	45	44	53	45	45	45	45
OVERALL	84	82	82	82	85	86	79	87	86	87	89	92	93	94	97	98	98	96	102

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 04
AIRCRAFT CODE 707
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE D1

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	90.8	90.4	87.1	86.6	87.1	87.8	83.0	86.9	86.4	89.3	90.4	93.3	93.9	94.9	97.1	96.3	97.0	94.2	98.0
250	88.6	88.2	84.8	84.3	84.8	85.5	80.6	84.4	83.8	87.0	88.1	90.9	91.6	92.5	95.0	94.2	94.9	92.1	96.0
315	86.3	86.0	82.5	82.1	82.5	83.2	78.5	81.8	81.3	84.6	85.8	88.5	89.1	90.5	92.8	92.1	92.8	89.9	93.8
400	84.0	83.6	80.2	79.7	80.2	80.9	76.1	79.2	78.3	82.1	83.3	86.1	86.5	88.0	90.5	89.9	90.6	87.5	91.7
500	81.6	81.3	77.8	77.3	77.8	78.5	73.7	76.5	76.4	79.5	80.8	83.6	83.8	85.3	87.9	87.5	88.3	84.8	89.5
630	79.1	78.6	75.3	74.6	75.3	76.0	71.1	73.6	73.8	76.9	78.2	81.0	81.1	82.5	85.1	84.7	85.5	82.0	87.3
800	76.5	76.3	72.7	72.2	72.7	73.4	68.5	71.0	71.1	74.1	75.4	78.2	78.3	79.7	82.2	81.9	82.7	79.2	84.9
1000	73.9	73.6	70.0	69.5	70.0	70.7	65.7	68.1	68.3	70.9	72.4	75.0	75.4	76.8	79.3	79.0	79.8	76.3	82.0
1250	70.9	70.7	67.0	66.6	67.1	67.8	62.6	65.0	65.2	67.5	69.0	71.6	72.3	73.8	76.2	76.0	76.8	73.3	79.0
1500	67.8	67.6	63.7	63.3	63.8	64.6	59.2	61.6	61.9	63.8	65.3	68.2	69.0	70.5	72.9	72.8	73.6	70.0	75.8
2000	64.4	64.2	60.1	59.7	60.2	61.0	55.4	57.4	58.0	59.6	61.2	64.1	64.9	66.4	68.8	68.6	69.4	65.8	71.5
2500	60.6	60.5	56.2	55.8	56.3	57.0	51.2	52.6	53.7	55.1	56.3	59.5	60.3	61.7	64.0	63.9	64.7	61.0	66.5
3150	56.3	56.3	51.5	51.3	51.8	52.6	46.5	47.8	48.4	49.6	50.4	54.2	55.3	56.2	58.5	58.4	59.3	55.4	60.8
4000	51.3	51.7	45.8	45.2	45.7	46.9	40.4	41.4	41.8	43.6	44.6	48.1	49.5	49.5	52.3	52.1	53.0	48.7	54.4
5000	45.8	46.4	39.2	39.0	39.4	40.3	34.4	35.1	35.8	36.0	37.9	41.2	42.9	43.0	45.5	44.2	45.1	40.4	46.8
6300	38.7	40.7	32.2	31.9	32.9	33.9	28.1	28.4	26.1	27.6	28.1	33.2	34.4	34.1	37.6	37.0	37.7	33.4	36.8
8000	30.9	35.6	23.0	24.0	25.3	28.1	20.1	21.0	15.8	19.1	18.9	23.3	24.4	26.5	28.6	29.5	30.5	25.5	30.9
10000	22.9	29.4	10.6	12.2	14.7	18.1	9.7	9.2	5.4	10.5	9.8	13.4	8.5	13.5	17.6	18.4	21.0	15.9	24.7
12500	11.3	19.2		.3	4.1	7.7				1.9	.6	3.5		.4	6.6	7.2	11.6	6.3	17.6
16000		9.0															2.1		10.5
20000																			3.5
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 04
AIRCRAFT CODE 707
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	92.7	91.1	88.2	87.7	88.1	89.4	85.1	87.5	87.6	89.3	90.4	93.8	94.8	95.6	99.5	97.3	99.2	94.2	98.0
250	90.4	88.9	86.0	85.5	85.8	87.1	82.9	85.0	85.1	87.0	88.1	91.4	92.5	93.5	97.4	95.2	97.1	92.1	96.0
315	88.2	86.6	83.7	83.2	83.5	84.8	80.6	82.4	82.6	84.6	85.8	89.0	89.9	91.3	95.2	93.1	94.9	89.9	93.8
400	85.8	84.3	81.3	80.9	81.2	82.5	78.2	79.8	80.1	82.1	83.3	86.6	87.3	88.7	93.0	90.9	92.7	87.5	91.7
500	83.4	81.9	78.9	78.5	78.8	80.1	75.8	77.1	77.6	79.5	80.8	84.1	84.7	86.0	90.3	88.5	90.4	84.8	89.5
630	81.0	79.5	76.4	76.0	76.3	77.6	73.2	74.4	75.1	76.9	78.2	81.5	82.0	83.3	87.6	85.7	87.7	82.0	87.3
800	78.4	76.9	73.8	73.4	73.7	75.0	70.6	71.6	72.4	74.1	75.4	78.7	79.2	80.4	84.7	82.9	84.9	79.2	84.9
1000	75.7	74.3	71.1	70.7	71.0	72.3	67.8	68.7	69.6	70.9	72.4	75.6	76.3	77.5	81.7	80.0	82.0	76.3	82.0
1250	72.8	71.4	68.1	67.7	68.1	69.4	64.7	65.6	66.5	67.5	69.0	72.2	73.1	74.5	78.7	77.0	78.9	73.3	79.0
1600	69.7	68.3	64.9	64.5	64.8	66.2	61.3	62.2	63.1	63.8	65.3	68.8	69.9	71.2	75.4	73.8	75.7	70.0	75.8
2000	66.2	64.9	61.3	60.9	61.3	62.6	57.5	58.0	59.2	59.6	61.2	64.7	65.8	67.1	71.2	69.6	71.6	65.8	71.5
2500	62.4	61.2	57.3	56.9	57.3	58.6	53.3	53.2	54.9	55.1	56.3	60.0	61.2	62.4	66.4	64.8	66.8	61.0	66.5
3150	58.2	56.9	52.6	52.4	52.8	54.2	48.6	48.4	49.7	49.6	50.4	54.7	56.2	56.9	61.0	59.4	61.4	55.4	60.8
4000	52.6	52.2	46.7	46.1	46.5	48.2	42.1	41.9	42.6	43.6	44.6	48.5	50.2	50.2	54.2	52.9	54.7	48.7	54.4
5000	46.9	46.6	39.8	39.7	40.0	41.3	35.7	35.4	34.5	35.0	37.9	41.6	43.4	43.4	47.0	44.8	46.4	40.4	46.8
6300	39.4	41.0	32.7	32.3	33.3	34.5	28.9	28.6	26.6	27.6	28.1	33.4	34.7	34.4	38.6	37.4	38.6	33.4	36.8
8000	31.3	35.7	23.2	24.2	25.5	28.4	20.5	21.1	16.0	19.1	18.9	23.4	24.6	26.7	29.1	29.7	30.9	25.5	30.9
10000	22.9	29.4	10.6	12.2	14.7	18.1	9.7	9.2	5.4	10.5	9.8	13.4	8.5	13.5	17.6	18.4	21.0	15.9	24.7
12500	11.3	19.2		.3	4.1	7.7				1.9	.6	3.5		.4	6.6	7.2	11.6	6.3	17.6
16000		9.0															2.1		10.5
20000																			3.5
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 04
AIRCRAFT CODE 707
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.5	78.4	73.3	73.1	73.7	74.3	69.9	70.6	70.8	72.7	73.8	76.3	77.0	76.6	78.4	77.2	77.7	74.6	76.7
250	75.4	76.3	71.2	71.0	71.6	72.2	67.8	68.6	68.7	70.6	71.7	74.3	74.9	74.6	76.3	75.1	75.6	72.5	74.7
315	73.2	74.2	69.1	68.9	69.5	70.1	65.7	66.5	66.5	68.4	69.6	72.2	72.9	72.5	74.1	73.0	73.5	70.4	72.7
400	71.1	72.1	66.9	66.8	67.3	67.3	63.6	64.3	64.3	66.3	67.5	70.1	70.7	70.4	72.0	70.9	71.4	68.3	70.6
500	68.9	69.9	64.7	64.6	65.1	65.7	61.4	62.2	62.1	64.1	65.3	67.9	68.5	68.2	69.7	68.8	69.2	66.2	68.6
630	66.6	67.7	62.5	62.3	62.9	63.5	59.1	59.9	59.8	61.7	63.0	65.6	66.2	65.8	67.4	66.6	67.0	64.0	66.5
800	64.3	65.4	60.1	60.0	60.5	61.2	56.8	57.6	57.4	59.3	60.6	63.1	63.7	63.4	65.0	64.3	64.8	61.7	64.3
1000	61.8	63.1	57.7	57.5	58.1	58.8	54.3	55.3	55.0	56.8	58.0	60.6	61.2	60.9	62.5	61.9	62.4	59.4	62.2
1250	59.3	60.7	55.1	55.0	55.6	56.3	51.8	52.8	52.4	54.1	55.3	57.8	58.4	58.3	59.9	59.4	60.0	57.0	59.9
1600	56.7	58.1	52.5	52.3	53.0	53.7	49.2	50.2	49.6	51.2	52.3	54.8	55.5	55.5	57.1	56.7	57.2	54.4	57.4
2000	53.8	55.5	49.7	49.5	50.3	51.0	46.4	47.4	46.7	48.2	49.1	51.6	52.3	52.4	54.0	53.7	54.2	51.4	54.2
2500	50.8	52.6	46.6	46.5	47.3	48.0	43.5	44.4	43.6	44.9	45.7	48.0	43.9	49.0	50.6	50.4	50.9	48.2	50.6
3150	47.6	49.5	43.3	43.3	44.1	44.9	40.4	41.2	40.3	41.4	42.0	44.2	45.2	45.3	47.0	46.8	47.2	44.7	46.7
4000	43.9	46.0	39.7	39.7	40.5	41.4	36.8	37.6	36.6	37.5	38.0	40.1	41.2	41.2	43.1	42.8	43.3	40.8	42.3
5000	39.8	42.1	35.6	35.6	36.4	37.3	32.7	33.6	32.6	33.5	33.9	35.8	36.9	35.3	38.8	38.6	39.0	36.6	37.6
6300	35.3	37.7	31.2	31.1	32.0	33.0	28.4	29.3	28.1	29.1	29.5	31.2	32.4	32.3	34.2	34.1	34.5	32.2	32.9
8000	30.9	33.7	26.8	26.8	27.7	28.7	24.3	25.3	24.0	25.1	25.6	27.3	28.4	28.5	30.2	30.2	30.7	28.6	30.2
10000	26.1	29.3	22.1	22.1	23.1	24.2	19.6	21.1	19.0	21.0	21.6	23.4	24.3	24.5	26.2	26.3	27.0	24.9	27.5
12500	21.1	24.5	17.1	17.2	18.1	19.3	15.1	16.7	15.1	15.7	17.7	19.6	20.2	20.8	22.3	22.6	23.3	21.2	24.8
16000	15.8	19.3	11.9	12.0	13.0	14.2	10.0	12.2	10.6	12.6	13.9	16.0	16.4	17.3	18.7	19.3	20.0	17.7	22.3
20000	10.4	13.6	6.6	6.8	7.8	9.1	4.8	8.0	6.4	8.8	10.4	12.7	12.9	14.0	15.6	16.3	17.0	14.5	19.8
25000	5.0	7.3	1.6	1.7	3.0	4.3		4.2	2.7	5.3	7.1	9.6	9.7	10.9	12.7	13.5	14.3	11.6	17.3

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 04
AIRCRAFT CODE 707
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
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NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	79.3	79.1	74.5	74.3	74.7	75.9	72.0	71.2	72.1	72.7	73.8	76.9	77.9	77.3	80.8	78.2	79.8	74.6	76.7
250	77.2	77.0	72.4	72.2	72.6	73.8	69.9	69.2	69.9	70.6	71.7	74.8	75.8	75.3	78.7	76.1	77.7	72.5	74.7
315	75.1	74.9	70.2	70.1	70.5	71.7	67.8	67.1	67.8	68.4	69.6	72.8	73.7	73.2	76.6	74.0	75.7	70.4	72.7
400	72.9	72.8	68.1	67.9	68.3	69.5	65.7	64.9	65.6	66.3	67.5	70.6	71.6	71.1	74.4	71.9	73.5	68.3	70.6
500	70.7	70.8	65.9	65.7	66.1	67.3	63.5	62.6	63.4	64.1	65.3	68.4	69.4	68.9	72.2	69.8	71.4	66.2	68.6
630	68.5	68.4	63.6	63.4	63.9	65.1	61.2	60.5	61.1	61.7	63.0	66.1	67.1	66.5	69.8	67.5	69.2	64.0	66.5
800	66.1	66.1	61.3	61.1	61.6	62.8	58.9	58.2	58.7	59.3	60.6	63.7	64.6	64.1	67.4	65.2	66.9	61.7	64.3
1000	63.7	63.8	58.8	58.7	59.2	60.4	56.4	55.9	56.2	56.8	58.0	61.1	62.1	61.5	65.0	62.9	64.6	59.4	62.2
1250	61.2	61.3	56.3	56.1	56.7	57.9	53.9	53.4	53.8	54.1	55.3	58.3	59.3	59.0	62.3	60.4	62.1	57.0	59.9
1600	58.5	58.8	53.6	53.5	54.0	55.3	51.3	50.8	50.9	51.2	52.3	55.3	56.4	56.2	59.5	57.7	59.4	54.4	57.4
2000	55.7	56.2	50.8	50.7	51.3	52.6	48.5	48.0	48.0	48.2	49.1	52.1	53.2	53.1	56.4	54.6	56.3	51.4	54.2
2500	52.7	53.3	47.8	47.7	48.3	49.6	45.6	45.0	44.9	44.9	45.7	48.6	49.8	49.7	53.1	51.3	53.0	48.2	50.6
3150	49.4	50.2	44.5	44.4	45.1	46.5	42.5	41.8	41.8	41.4	42.0	44.7	46.1	46.0	49.5	47.7	49.4	44.7	46.7
4000	45.4	46.6	40.6	40.6	41.3	42.8	38.5	38.1	37.6	37.6	38.0	40.9	41.9	41.8	45.0	43.6	45.0	40.8	42.3
5000	40.9	42.5	36.3	36.3	37.0	38.3	34.0	34.0	33.3	33.5	33.9	36.1	37.5	37.3	40.2	39.2	40.3	36.6	37.6
6300	36.1	38.0	31.7	31.6	32.4	33.6	29.2	29.5	28.6	29.1	29.5	31.4	32.8	32.5	35.2	34.5	35.4	32.2	32.9
8000	31.3	33.8	27.0	27.0	27.9	29.0	24.7	25.4	24.3	25.1	25.6	27.4	28.6	28.6	30.7	30.4	31.2	28.6	30.2
10000	26.1	29.3	22.1	22.1	23.1	24.2	19.8	21.1	19.6	21.0	21.6	23.4	24.3	24.5	26.2	26.3	27.0	24.9	27.5
12500	21.1	24.5	17.1	17.2	18.1	19.3	15.1	16.7	15.1	15.7	17.7	19.6	20.2	20.8	22.3	22.6	23.3	21.2	24.8
16000	15.8	19.3	11.9	12.0	13.0	14.2	10.0	12.2	10.6	12.6	13.9	16.0	16.4	17.3	18.7	19.3	20.0	17.7	22.3
20000	10.4	13.6	6.5	6.8	7.8	9.1	4.8	8.0	6.4	8.8	10.4	12.7	12.9	14.0	15.6	16.3	17.0	14.5	19.8
25000	5.0	7.3	1.0	1.7	3.0	4.3		4.2	2.7	5.3	7.1	9.0	9.7	10.9	12.7	13.5	14.3	11.6	17.3

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

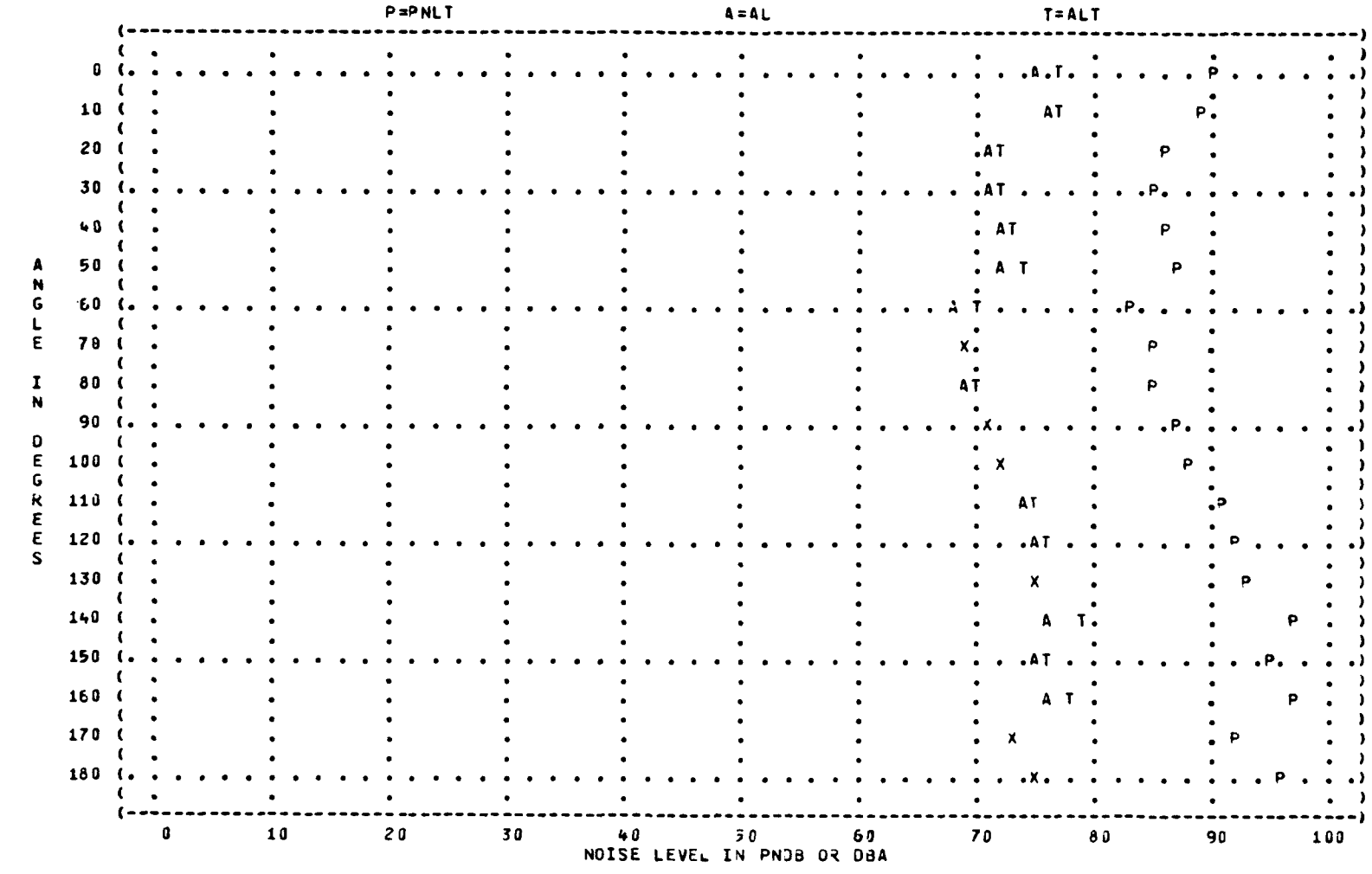
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-707-001
RUN 04
AIRCRAFT CODE 707
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE J1



NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(F-111F A/C)

DURING GROUND RUN-UP OPERATIONS

TEST 8F-708-001
AIRCRAFT CODE: 708
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting	Page
Engine Runup, 80% RPM	127
Engine Runup, 85% RPM	133
Engine Runup, 95% RPM	139
Military Power, 96% RPM	145
Afterburner Power, 96% RPM	151

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-706-001
RUN 01
AIRCRAFT CODE 706
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE C5

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	48<	50<	51<	47<	51<	50<	51<	69	66	43<	63<	62<	65<	65	65	65	65	65	65
63	48<	50<	51<	47<	51<	50<	51<	66	65<	43<	63	62	65	64	64	64	64	64	64
80	48<	50<	51<	47<	51<	50<	51<	65<	63<	43<	62<	61<	63<	63<	63<	63<	63<	53<	63<
100	48<	50<	51<	47<	51<	50<	51<	63<	62<	43<	60<	60<	62<	62<	62<	62<	62<	62<	62<
125	48<	50<	51<	47<	51<	50<	51<	62<	61<	43<	58<	58<	60<	60<	60<	60<	60<	60<	60<
160	48<	50<	51<	47<	51<	50<	51<	61<	59<	43<	56<	57<	58<	59<	59<	59<	59<	59<	59<
200	48<	50<	51<	47<	51<	50<	51<	59<	58<	43<	55<	55<	57<	58	58	58	58	58	58
250	48<	50<	51<	47<	51<	50<	51<	58<	57<	43<	53<	54<	55<	55<	55<	55<	55<	55<	55<
315	48<	50<	51<	47<	51	50<	51<	56<	55<	43<	51	53<	54<	52<	52<	52<	52<	52<	52<
400	48	50<	51<	47	51	50<	51<	55<	54<	43<	48	51<	52<	49	49	49	49	49	49
500	49	50<	51<	48<	51	50<	51<	53<	52<	43<	46<	50<	50<	50	50	50	50	50	50
630	50	50<	51<	49<	52	50<	51<	52<	51<	43<	45<	48<	49<	50	50	50	50	50	50
800	51	50<	51<	50<	50	50<	51<	51<	50<	43<	44<	47<	47<	51	51	51	51	51	51
1000	52	50<	51<	51<	50<	50<	51<	49<	48<	43<	43<	46<	45<	50<	50<	50<	50<	50<	50<
1250	54	50	51<	52	51	50	51<	48<	47<	43<	42<	44<	44<	50<	50<	50<	50<	50<	50<
1600	56	53	51	55	51	53	51	46	45<	43<	42<	43<	42<	49	49	49	49	49	49
2000	51	51	51	53	50	50	47	44	44<	43<	41<	41<	41<	45	45	45	45	45	45
2500	50	50	51	53	51	50	48	45	43	43	40	40<	39<	43	43	43	43	43	43
3150	50	45	46	48	46	47	47	48	47	43	39	39	38	42	42	42	42	42	42
4000	41	37	40	39	36	36	37	40	39	37	37<	37<	32<	39	39	39	39	39	39
5000	46	42	43	45	41	42	41	42	41	37	35<	35<	25<	38	38	38	38	38	38
6300	47	44	44	47	43	44	43	44	42	38	33	33	20<	36	36	36	36	36	36
8000	45	46	43	46	41	41	41	41	41	37	32	32	14<	34	34	34	34	34	34
10000	51	43	37	43	38	35	36	38	37	34	26<	26<	8<	31	31	31	31	31	31
OVERALL	64	63	64	63	64	63	63	74	72	56	69	69	71	71	71	71	71	71	71

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 01
AIRCRAFT CODE 708
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE D5

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 53 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.4	75.7	76.6	77.2	76.0	75.7	74.6	77.7	76.2	69.1	70.6	71.7	71.6	74.7	74.7	74.7	74.7	74.7	74.7
250	75.1	73.4	74.3	74.9	73.7	73.4	72.3	73.3	73.9	66.7	68.3	69.4	69.4	72.5	72.5	72.5	72.5	72.5	72.5
315	72.7	71.0	71.9	72.5	71.3	71.0	69.9	72.9	71.5	64.3	66.0	67.2	67.2	70.2	70.2	70.2	70.2	70.2	70.2
400	70.2	68.5	69.5	70.0	68.8	68.6	67.5	70.5	69.1	61.7	63.5	64.8	64.9	67.8	67.8	67.8	67.8	67.8	67.8
500	67.7	66.0	66.9	67.5	66.3	66.0	64.9	68.0	66.5	59.0	61.0	62.4	62.5	65.3	65.3	65.3	65.3	65.3	65.3
630	65.1	63.3	64.2	64.7	63.6	63.3	62.2	65.2	63.8	55.1	58.2	59.7	60.0	62.7	62.7	62.7	62.7	62.7	62.7
800	62.3	60.5	61.4	61.9	60.8	60.5	59.4	62.3	60.6	52.9	55.2	56.8	57.2	59.9	59.9	59.9	59.9	59.9	59.9
1000	59.3	57.5	58.4	58.8	57.7	57.5	56.2	59.0	57.5	49.3	52.0	53.7	54.2	56.5	56.8	56.8	56.8	56.8	56.8
1250	56.1	54.2	55.1	55.4	54.4	54.4	53.0	55.5	54.0	45.4	48.2	50.2	50.5	53.3	53.3	53.3	53.3	53.3	53.3
1600	52.7	50.8	51.4	51.8	50.6	50.9	48.8	51.9	50.3	40.9	44.0	46.7	47.2	49.4	49.4	49.4	49.4	49.4	49.4
2000	48.9	46.6	46.9	47.7	46.1	46.5	44.7	48.0	46.3	36.0	39.1	42.5	43.2	44.8	44.8	44.8	44.8	44.8	44.8
2500	44.2	41.7	41.9	42.8	41.4	41.8	40.0	42.6	41.0	29.8	32.2	37.0	37.9	39.6	39.6	39.6	39.6	39.6	39.6
3150	39.1	36.9	36.8	37.8	36.4	37.0	35.0	36.7	35.0	22.3	24.5	30.5	31.1	33.9	33.9	33.9	33.9	33.9	33.9
4000	33.4	30.1	30.3	31.2	30.0	30.2	27.9	30.0	27.2	14.8	10.0	20.9	21.7	26.3	26.3	26.3	26.3	26.3	26.3
5000	24.8	20.9	21.9	23.0	21.8	21.8	18.5	19.8	17.0	7.3		9.9	10.8	17.2	17.2	17.2	17.2	17.2	17.2
6300	9.6	11.8	13.5	7.2	13.7	13.4	9.2	9.5	6.8					8.1	8.1	8.1	8.1	8.1	8.1
8000		2.7	5.0		5.5	5.0													
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 6.2
TEST BF-708-001
RUN 01
AIRCRAFT CODE 708
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE E5

DISTANCE	ANGLE (DEGREES)																		
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	79.0	75.7	76.6	78.2	76.0	76.8	74.6	79.6	78.2	70.3	70.6	71.7	71.6	74.7	74.7	74.7	74.7	74.7	74.7
250	76.7	73.4	74.3	75.9	73.7	74.5	72.3	77.3	75.9	67.9	68.3	69.4	69.4	72.5	72.5	72.5	72.5	72.5	72.5
315	74.3	71.0	71.9	73.5	71.3	72.1	69.9	74.9	73.5	65.5	66.0	67.2	67.2	70.2	70.2	70.2	70.2	70.2	70.2
400	71.6	68.5	69.5	71.0	68.8	69.7	67.5	72.4	71.1	62.9	63.5	64.8	64.9	67.8	67.8	67.8	67.8	67.8	67.8
500	69.3	66.0	66.9	68.5	66.3	67.1	64.9	69.9	68.5	60.2	61.0	62.4	62.5	65.3	65.3	65.3	65.3	65.3	65.3
630	66.7	63.3	64.2	65.8	63.6	64.5	62.2	67.2	65.7	57.3	58.2	59.7	60.0	62.7	62.7	62.7	62.7	62.7	62.7
800	63.9	60.5	61.4	62.9	60.8	61.6	59.4	64.2	62.8	54.1	55.2	56.6	57.2	59.9	59.9	59.9	59.9	59.9	59.9
1000	60.9	57.5	58.4	59.8	57.7	58.6	56.2	60.9	59.4	50.5	52.0	53.7	54.2	56.8	56.8	56.8	56.8	56.8	56.8
1250	57.7	54.2	55.0	56.4	54.4	55.5	53.0	57.5	56.0	46.6	48.2	50.2	50.8	53.3	53.3	53.3	53.3	53.3	53.3
1600	54.3	50.8	51.4	52.8	50.6	52.0	48.8	53.9	52.3	42.1	44.0	46.7	47.2	49.4	49.4	49.4	49.4	49.4	49.4
2000	50.5	46.6	46.9	48.7	46.1	47.7	44.7	49.9	48.2	37.2	39.1	42.5	43.2	44.8	44.8	44.8	44.8	44.8	44.8
2500	45.8	41.7	41.9	43.9	41.4	42.9	40.0	44.5	42.9	31.0	32.2	37.0	37.9	39.6	39.6	39.6	39.6	39.6	39.6
3150	40.7	36.9	36.8	38.8	36.4	38.2	35.0	38.6	37.0	23.5	24.5	30.5	31.1	33.9	33.9	33.9	33.9	33.9	33.9
4000	34.7	30.1	30.3	32.0	30.0	31.1	27.9	31.5	28.8	15.7	10.0	20.9	21.7	26.3	26.3	26.3	26.3	26.3	26.3
5000	25.8	20.9	21.9	23.6	21.8	22.5	18.5	20.9	18.2	8.0		9.9	10.8	17.2	17.2	17.2	17.2	17.2	17.2
6300	10.3	11.8	13.5	7.7	13.7	13.9	9.2	10.3	7.5	.2				8.1	8.1	8.1	8.1	8.1	8.1
8000		2.7	5.0		5.5	5.2													
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 01
AIRCRAFT CODE 706
OPERATION CODE 00113
PROFILE VERSION A
20 NOV 81
PAGE F5

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	64.9	63.0	63.4	64.2	62.8	62.9	62.0	63.0	61.8	55.5	57.2	59.0	59.4	61.7	61.7	61.7	61.7	61.7	61.7
250	62.7	60.8	61.3	62.0	60.7	60.8	59.9	60.9	59.7	53.3	55.1	56.9	57.4	59.0	59.6	59.6	59.6	59.6	59.6
315	60.5	58.6	59.1	59.8	58.5	58.6	57.7	58.7	57.6	51.1	53.1	54.8	55.3	57.5	57.5	57.5	57.5	57.5	57.5
400	58.2	56.4	56.9	57.5	56.3	56.4	55.5	56.6	55.5	48.8	50.9	52.7	53.2	55.3	55.3	55.3	55.3	55.3	55.3
500	55.9	54.1	54.6	55.2	54.0	54.1	53.3	54.4	53.2	46.4	48.7	50.5	51.0	53.1	53.1	53.1	53.1	53.1	53.1
630	53.5	51.7	52.3	52.8	51.7	51.8	51.0	52.1	50.9	44.1	46.4	48.2	48.8	50.5	50.6	50.6	50.8	50.8	50.8
800	51.0	49.3	49.9	50.4	49.3	49.4	48.6	49.7	48.6	41.6	44.0	45.9	46.5	48.5	48.5	48.5	48.5	48.5	48.5
1000	48.5	46.9	47.4	47.8	46.9	47.0	46.2	47.2	46.1	39.0	41.5	43.5	44.1	46.1	46.1	46.1	46.1	46.1	46.1
1250	45.9	44.3	44.9	45.2	44.3	44.4	43.6	44.6	43.5	36.4	38.8	40.9	41.5	43.5	43.5	43.5	43.5	43.5	43.5
1600	43.2	41.6	42.2	42.4	41.6	41.7	41.0	41.9	40.9	33.6	36.0	38.3	38.6	40.8	40.8	40.8	40.8	40.8	40.8
2000	40.3	38.7	39.4	39.4	38.8	38.9	38.2	39.1	38.1	30.8	33.0	35.5	36.0	38.0	38.0	38.0	38.0	38.0	38.0
2500	37.2	35.7	36.3	36.2	35.8	35.8	35.2	36.0	34.9	27.7	29.7	32.4	32.8	35.0	35.0	35.0	35.0	35.0	35.0
3150	33.9	32.3	33.1	32.8	32.5	32.5	32.0	32.5	31.5	24.3	26.2	29.0	29.4	31.7	31.7	31.7	31.7	31.7	31.7
4000	30.3	28.7	29.4	29.1	28.9	28.9	28.4	28.7	27.8	20.7	22.4	25.2	25.5	28.1	28.1	28.1	28.1	28.1	28.1
5000	26.2	24.5	25.4	24.9	24.7	24.8	24.4	24.6	23.6	16.6	18.2	21.1	21.4	24.1	24.1	24.1	24.1	24.1	24.1
6300	21.7	20.0	21.0	20.4	20.3	20.3	20.0	20.2	19.2	12.1	13.6	16.7	16.9	19.8	19.8	19.8	19.8	19.8	19.8
8000	17.1	15.7	16.8	15.8	16.1	16.0	15.9	16.4	15.4	7.9	9.9	12.9	13.3	15.7	15.7	15.7	15.7	15.7	15.7
10000	12.1	11.0	12.2	10.8	11.6	11.4	11.3	12.4	11.4	3.4	5.9	8.9	9.3	11.3	11.3	11.3	11.3	11.3	11.3
12500	6.7	6.0	7.3	5.4	6.7	6.4	6.4	8.1	7.0		1.6	4.5	5.1	6.6	6.6	6.6	6.6	6.6	6.6
16000	.9	.6	1.9		1.4	1.0	1.1	3.6	2.4				.6	1.6	1.6	1.6	1.6	1.6	1.6
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 01
AIRCRAFT CODE 708
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE G5

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	66.5	63.0	63.4	65.3	62.8	64.0	62.0	64.9	63.8	58.7	57.2	59.0	59.4	61.7	61.7	61.7	61.7	61.7	61.7
250	64.3	60.8	61.3	63.1	60.7	61.9	59.9	62.8	61.7	56.5	55.1	56.9	57.4	59.6	59.6	59.6	59.6	59.5	59.5
315	62.1	58.6	59.1	60.8	58.5	59.7	57.7	60.7	59.6	52.3	53.1	54.8	55.3	57.5	57.5	57.5	57.5	57.5	57.5
400	59.8	56.4	56.9	58.6	56.3	57.5	55.5	58.5	57.4	50.0	50.9	52.7	53.2	55.3	55.3	55.3	55.3	55.3	55.3
500	57.5	54.1	54.6	56.2	54.0	55.2	53.3	56.3	55.2	47.6	48.7	50.5	51.0	53.1	53.1	53.1	53.1	53.1	53.1
630	55.1	51.7	52.3	53.8	51.7	52.9	51.0	54.0	52.9	45.3	46.4	48.2	48.8	50.8	50.8	50.8	50.8	50.8	50.8
800	52.6	49.3	49.9	51.4	49.3	50.5	48.6	51.6	50.6	42.8	44.0	45.9	46.5	48.5	48.5	48.5	48.5	48.5	48.5
1000	50.1	46.9	47.4	48.8	46.9	48.1	46.2	49.2	48.1	40.2	41.5	43.5	44.1	46.1	46.1	46.1	46.1	46.1	46.1
1250	47.5	44.3	44.9	46.2	44.3	45.5	43.6	46.6	45.5	37.6	38.6	40.9	41.5	43.5	43.5	43.5	43.5	43.5	43.5
1600	44.8	41.6	42.2	43.4	41.6	42.8	41.0	43.9	42.8	34.8	36.0	38.3	38.8	40.8	40.8	40.8	40.8	40.8	40.8
2000	41.9	38.7	39.4	40.4	38.8	40.0	38.2	41.0	40.0	32.0	33.0	35.5	36.0	38.0	38.0	38.0	38.0	38.0	38.0
2500	38.8	35.7	36.3	37.3	35.8	36.9	35.2	37.9	36.9	28.9	29.7	32.4	32.8	35.0	35.0	35.0	35.0	35.0	35.0
3150	35.5	32.3	33.1	33.9	32.5	33.6	32.0	34.5	33.5	25.5	26.2	29.0	29.4	31.7	31.7	31.7	31.7	31.7	31.7
4000	31.6	28.7	29.4	29.9	28.9	29.8	28.4	30.3	29.3	21.6	22.4	25.2	25.6	28.1	28.1	28.1	28.1	28.1	28.1
5000	27.2	24.5	25.4	25.5	24.7	25.4	24.4	25.7	24.8	17.3	18.2	21.1	21.4	24.1	24.1	24.1	24.1	24.1	24.1
6300	22.4	20.0	21.0	20.8	20.3	20.8	20.0	20.9	20.0	12.6	13.8	16.7	16.9	19.8	19.8	19.8	19.8	19.8	19.8
8000	17.4	15.7	16.8	16.0	16.1	16.2	15.9	16.8	15.8	8.2	9.9	12.9	13.3	15.7	15.7	15.7	15.7	15.7	15.7
10000	12.1	11.0	12.2	10.8	11.6	11.4	11.3	12.4	11.4	3.4	5.9	8.9	9.3	11.3	11.3	11.3	11.3	11.3	11.3
12500	6.7	6.0	7.3	5.4	6.7	6.4	6.4	8.1	7.0		1.8	4.9	5.1	6.6	6.6	6.6	6.6	6.6	6.6
16000	.9	.6	1.9		1.4	1.0	1.1	3.6	2.4				.6	1.6	1.6	1.6	1.6	1.5	1.5
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 01
AIRCRAFT CODE 708
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE J5

P=PNLT A=AL T=ALT

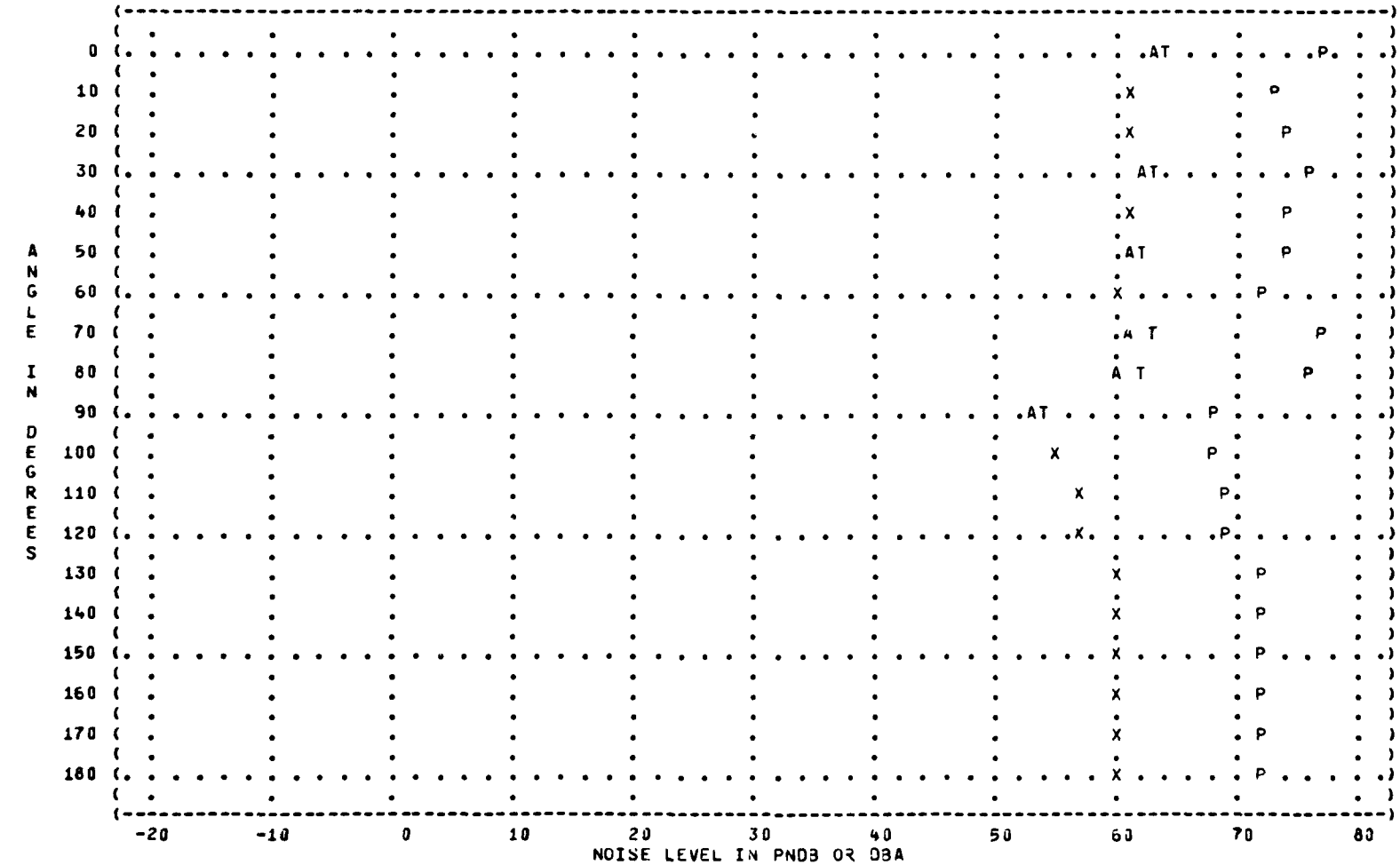


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 02
AIRCRAFT CODE 708
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE C4

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
65% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	49<	51<	47<	51<	66	47<	69	71	70	67	65	68	67	71	71	71	71	71	71
63	49<	51<	47<	51<	63	47<	64	67	65	65	68	66	66	66	66	66	66	66	66
80	49<	51<	47<	51<	62<	47<	63<	65<	67	64<	71	65<	66<	64<	64<	64<	64<	64<	64<
100	49<	51<	47<	51<	61<	47<	61<	63<	65<	62<	68<	63<	65<	63<	63<	63<	63<	63<	63<
125	49<	51<	47<	51<	60<	47<	60<	62<	64<	61<	65<	62<	65<	62<	62<	62<	62<	62<	62<
160	49<	51<	47<	51<	59<	47<	58<	60<	62<	59<	63<	60<	65<	60<	60<	60<	60<	60<	60<
200	49<	51<	47<	51<	58<	47<	57<	59<	60	58<	60	59<	60	59<	59<	59<	59<	59<	59<
250	49<	51<	47<	51<	57<	47<	55<	57<	58	56<	58<	57<	60<	57<	57<	57<	57<	57<	57<
315	49<	51<	47<	51<	56<	47<	54	56	58	55<	56<	55<	53<	56<	56<	56<	56<	56<	56<
400	49	51<	47<	51<	55<	47<	49	51	55	53<	55<	54<	47	54<	54<	54<	54<	54<	54<
500	50	51<	47	51<	54<	47	51	49	55	52<	53<	52<	50	53<	53<	53<	53<	53<	53<
630	51<	51<	48<	51<	53<	48<	50	48<	51	50<	51<	51<	49	51<	51<	51<	51<	51<	51<
800	51<	51<	49<	51<	52<	48<	52	47<	49<	49<	49<	49<	49<	50<	50<	50<	50<	50<	50<
1000	52<	51<	50<	51<	51<	49<	52<	46<	48<	47<	47<	47<	48<	48<	48<	48<	48<	48<	48<
1250	53	51	51	51<	50<	50<	51	45<	46<	46<	45<	46<	47<	47<	47<	47<	47<	47<	47<
1600	55	53	53	51	49	50	50	44<	44<	44<	43<	44<	47	46	46	46	46	46	46
2000	51	52	53	52	50	47	49	43<	43<	43<	41<	43<	45	45	45	45	45	45	45
2500	47	51	52	52	51	47	47	42	41	41	39	41	47	43	43	43	43	43	43
3150	45	45	46	43	43	42	47	46	45	41	38	40	45	42	42	42	42	42	42
4000	40	40	43	39	38	37	41	43	42	39	35	36	42	39	39	39	39	39	39
5000	44	42	43	41	38	38	44	41	41	38	36	40	41	36	36	36	36	38	38
6300	44	43	43	40	38	39	42	40	40	37	35	36	39	37	37	37	37	37	37
8000	44	45	44	41	42	39	45	52	43	36	35	38	37	35	35	35	35	35	35
10000	38	39	38	36	37	35	39	39	37	34	32	33	34	32	32	32	32	32	32
OVERALL	63	64	62	64	72	61	73	74	75	72	76	73	75	74	74	74	74	74	74

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 02
AIRCRAFT CODE 708
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE D4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	76.2	76.4	75.3	76.7	77.8	72.8	77.1	76.9	76.8	74.3	76.6	74.7	73.6	75.2	75.2	75.2	75.2	75.2	75.2
250	73.9	74.1	74.0	74.4	75.6	70.4	74.8	74.4	74.2	72.0	74.2	72.4	75.3	72.9	72.9	72.9	72.9	72.9	72.9
315	71.6	71.7	71.7	72.0	73.2	68.1	72.4	71.7	72.2	69.8	71.6	70.1	74.0	70.7	70.7	70.7	70.7	70.7	70.7
400	69.2	69.3	69.2	69.6	70.8	65.6	69.9	69.0	69.8	67.4	69.4	67.8	71.6	68.3	68.3	68.3	68.3	68.3	68.3
500	66.7	66.7	66.6	67.1	68.3	63.0	67.3	66.4	67.4	65.0	66.9	65.3	69.0	65.3	65.3	65.9	65.9	65.9	65.9
630	64.1	64.0	63.9	64.4	65.6	60.3	64.6	63.5	64.8	62.4	64.2	62.8	66.2	63.4	63.4	63.4	63.4	63.4	63.4
800	61.3	61.2	61.1	61.6	62.8	57.4	61.7	60.5	62.2	59.6	61.3	60.0	63.2	60.6	60.6	60.6	60.6	60.6	60.6
1000	58.4	58.1	58.0	58.6	59.7	54.2	58.6	57.2	59.1	56.6	58.3	56.9	59.9	57.7	57.7	57.7	57.7	57.7	57.7
1250	55.3	54.9	54.6	55.3	56.4	50.9	55.2	53.3	55.9	53.3	54.7	53.6	56.3	54.4	54.4	54.4	54.4	54.4	54.4
1600	51.9	51.4	51.0	51.6	52.7	46.9	51.2	49.1	52.4	49.6	51.1	50.0	52.0	50.8	50.8	50.8	50.8	50.8	50.8
2000	47.9	47.1	46.7	47.4	48.2	42.6	46.7	44.5	48.0	45.6	46.9	46.0	47.1	46.9	46.9	46.9	46.9	46.9	46.9
2500	43.2	42.3	41.8	42.5	43.4	38.0	41.3	38.9	43.7	40.3	41.6	40.5	41.4	41.6	41.6	41.6	41.6	41.6	41.6
3150	38.2	37.4	36.3	37.4	38.2	32.1	35.9	31.4	37.8	33.7	36.0	33.9	35.1	35.1	35.1	35.1	35.1	35.1	35.1
4000	32.2	30.8	29.2	30.2	32.3	24.7	29.9	20.4	30.4	25.2	26.3	25.0	25.2	28.5	28.5	28.5	28.5	28.5	28.5
5000	23.9	22.4	20.4	22.1	23.6	9.9	20.6	9.4	22.0	16.2	17.3	16.0	12.5	17.8	17.8	17.8	17.8	17.8	17.8
6300	8.3	13.9	11.8	14.0	11.5		7.2		11.0	7.1	8.3	7.5		7.1	7.1	7.1	7.1	7.1	7.1
8000		5.5	2.8	5.9					.0										
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNOB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-706-001
RUN 02
AIRCRAFT CODE 708
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE E4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.5	77.0	77.0	78.3	79.4	72.6	78.2	79.0	77.4	74.3	76.6	75.9	78.6	75.2	75.2	75.2	75.2	75.2	75.2
250	75.2	74.7	74.7	76.0	77.1	70.4	75.9	76.5	75.2	72.0	74.2	73.6	75.3	72.9	72.9	72.9	72.9	72.9	72.9
315	72.6	72.3	72.3	73.6	74.8	68.1	73.5	73.8	72.9	69.8	71.8	71.3	74.0	70.7	70.7	70.7	70.7	70.7	70.7
400	70.4	69.9	69.8	71.2	72.3	65.6	71.0	71.1	70.5	67.4	69.4	69.0	71.6	68.3	68.3	68.3	68.3	68.3	68.3
500	67.9	67.3	67.3	68.7	69.8	63.0	68.5	68.5	68.1	65.0	66.9	66.5	69.0	65.9	65.9	65.9	65.9	65.9	65.9
630	65.4	64.6	64.6	66.0	67.2	60.3	65.7	65.6	65.5	62.4	64.2	64.0	66.2	63.4	63.4	63.4	63.4	63.4	63.4
800	62.6	61.8	61.7	63.2	64.4	57.4	62.6	62.6	62.6	59.6	61.3	61.2	63.2	60.6	60.6	60.6	60.6	60.6	60.6
1000	59.7	58.7	58.6	60.2	61.3	54.2	59.7	59.3	59.8	56.6	58.3	58.1	59.9	57.7	57.7	57.7	57.7	57.7	57.7
1250	56.5	55.5	55.2	56.9	57.9	50.9	56.3	55.4	56.6	53.3	54.7	54.8	56.3	54.4	54.4	54.4	54.4	54.4	54.4
1600	53.2	52.0	51.6	53.2	54.2	46.9	52.3	51.2	53.1	49.6	51.1	51.2	52.0	50.8	50.8	50.8	50.8	50.8	50.8
2000	49.2	47.7	47.3	49.0	49.7	42.6	47.8	47.0	49.3	45.6	46.9	47.2	47.1	46.9	46.9	46.9	46.9	46.9	46.9
2500	44.5	42.9	42.4	44.0	44.9	38.0	42.4	41.0	44.3	40.3	41.6	41.7	41.4	41.6	41.6	41.6	41.6	41.6	41.6
3150	39.5	38.0	36.9	38.9	39.7	32.1	37.0	33.5	38.5	33.7	36.0	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
4000	33.2	31.3	29.8	31.5	33.6	24.7	30.8	22.1	30.9	25.2	26.3	26.5	25.2	28.5	28.5	28.5	28.5	28.5	28.5
5000	24.7	22.7	20.8	23.1	24.6	9.9	21.3	10.7	22.4	15.2	17.3	17.3	12.5	17.8	17.8	17.8	17.8	17.8	17.8
6300	8.9	14.2	11.9	14.7	12.2		7.6		11.3	7.1	8.3	8.0		7.1	7.1	7.1	7.1	7.1	7.1
8000		5.6	2.9	6.2					.2										
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 02
AIRCRAFT CODE 708
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE F4

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	63.8	63.5	63.2	63.5	63.9	60.4	63.2	61.7	63.1	61.1	62.4	61.4	63.6	62.0	62.0	62.0	62.0	62.0	62.0
250	61.6	61.4	61.1	61.3	61.8	58.2	61.1	59.4	61.0	59.0	60.4	59.3	61.6	59.9	59.9	59.9	59.9	59.9	59.9
315	59.5	59.2	53.9	59.2	59.7	56.1	58.9	57.2	58.9	56.9	58.3	57.2	59.5	57.9	57.9	57.9	57.9	57.9	57.9
400	57.2	57.0	56.6	57.0	57.5	53.9	56.7	54.9	56.0	54.8	56.2	55.1	57.3	55.7	55.7	55.7	55.7	55.7	55.7
500	55.0	54.7	54.3	54.7	55.3	51.6	54.4	52.5	54.6	52.6	54.1	52.9	55.0	53.3	53.5	53.5	53.5	53.5	53.5
630	52.7	52.4	51.9	52.4	53.0	49.3	52.1	50.1	52.3	50.3	51.8	50.6	52.6	51.3	51.3	51.3	51.3	51.3	51.3
800	50.3	50.0	49.5	50.0	50.7	47.0	49.7	47.6	50.0	45.0	49.4	48.3	50.1	49.0	49.0	49.0	49.0	49.0	49.0
1000	47.8	47.5	46.9	47.6	48.3	44.5	47.3	45.0	47.0	45.0	47.0	45.9	47.4	46.0	46.0	46.6	46.6	46.6	46.5
1250	45.3	44.9	44.3	45.0	45.7	42.0	44.7	42.2	45.0	43.0	44.3	43.3	44.6	44.0	44.0	44.0	44.0	44.0	44.0
1600	42.6	42.2	41.5	42.3	43.1	39.3	41.9	39.4	42.3	40.3	41.5	40.5	41.5	41.3	41.3	41.3	41.3	41.3	41.3
2000	39.8	39.4	38.6	39.5	40.3	36.5	39.1	36.3	39.2	37.5	38.6	37.6	38.3	38.5	38.5	38.5	38.5	38.5	38.5
2500	36.8	36.3	35.4	36.5	37.2	33.5	36.0	33.0	36.3	34.4	35.3	34.6	34.9	35.4	35.4	35.4	35.4	35.4	35.4
3150	33.6	33.0	32.0	33.2	33.9	30.2	32.7	29.3	32.8	31.0	31.6	31.2	31.2	32.0	32.0	32.0	32.0	32.0	32.0
4000	30.0	29.3	28.3	29.5	30.2	26.6	29.1	25.4	28.9	27.2	27.7	27.3	27.2	28.2	28.2	28.2	28.2	28.2	28.2
5000	25.9	25.2	24.2	25.4	26.0	22.6	25.1	21.1	24.6	23.0	23.4	23.1	23.0	24.0	24.0	24.0	24.0	24.0	24.0
6300	21.5	20.7	19.6	21.0	21.6	18.2	20.6	16.6	20.1	18.6	19.0	18.7	18.6	19.5	19.5	19.6	19.6	19.5	19.6
8000	17.0	16.4	15.1	16.8	17.7	13.9	16.7	12.9	16.6	14.9	15.4	15.0	14.3	15.9	15.9	15.9	15.9	15.9	15.9
10000	12.2	11.8	10.2	12.2	13.5	9.1	12.2	9.0	12.6	10.9	11.7	11.1	10.9	11.9	11.9	11.9	11.9	11.9	11.9
12500	7.0	6.8	4.9	7.3	9.0	4.0	7.4	4.9	8.7	6.6	7.7	5.9	6.8	7.6	7.6	7.6	7.6	7.6	7.6
16000	1.3	1.4		1.9	4.1		2.3	.6	4.4	2.1	3.6	2.4	2.7	3.1	3.1	3.1	3.1	3.1	3.1
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 02
AIRCRAFT CODE 708
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE G4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	65.1	64.2	63.9	65.0	65.4	60.4	64.3	63.8	63.7	61.1	62.4	62.6	63.6	62.0	62.0	62.0	62.0	62.0	62.0
250	62.9	62.0	61.7	62.9	63.3	58.2	62.2	61.5	61.7	59.0	60.4	60.5	61.6	59.9	59.9	59.9	59.9	59.9	59.9
315	60.7	59.8	59.5	60.7	61.2	56.1	60.0	59.3	59.6	56.9	58.3	58.4	59.5	57.9	57.9	57.9	57.9	57.9	57.9
400	58.5	57.6	57.2	58.5	59.0	53.9	57.8	57.0	57.4	54.8	56.2	56.3	57.3	55.7	55.7	55.7	55.7	55.7	55.7
500	56.3	55.3	54.9	56.3	56.8	51.6	55.5	54.6	55.2	52.6	54.1	54.1	55.0	53.5	53.5	53.5	53.5	53.5	53.5
630	54.0	53.0	52.6	54.0	54.5	49.3	53.2	52.2	53.0	50.3	51.6	51.8	52.6	51.3	51.3	51.3	51.3	51.3	51.3
800	51.6	50.6	50.1	51.6	52.2	47.0	50.8	49.7	50.7	48.0	49.4	49.5	50.1	49.0	49.0	49.0	49.0	49.0	49.0
1000	49.1	48.1	47.6	49.1	49.8	44.5	48.4	47.1	48.3	45.6	47.0	47.1	47.4	46.5	46.6	46.6	46.6	46.6	46.6
1250	46.6	45.5	44.9	46.6	47.2	42.0	45.8	44.3	45.7	43.0	44.3	44.5	44.6	44.0	44.0	44.0	44.0	44.0	44.0
1500	43.9	42.8	42.2	43.9	44.6	39.3	43.1	41.5	43.0	40.3	41.5	41.8	41.5	41.3	41.3	41.3	41.3	41.3	41.3
2000	41.1	40.0	39.2	41.1	41.8	36.5	40.2	38.4	40.2	37.5	38.6	39.0	38.3	38.5	38.5	38.5	38.5	38.5	38.5
2500	38.1	36.9	36.1	38.0	38.8	33.5	37.1	35.1	37.0	34.4	35.3	35.8	34.9	35.4	35.4	35.4	35.4	35.4	35.4
3150	34.8	33.6	32.7	34.7	35.4	30.2	33.8	31.4	33.4	31.0	31.6	32.3	31.2	32.0	32.0	32.0	32.0	32.0	32.0
4000	31.0	29.8	28.8	30.8	31.4	26.6	30.0	27.0	29.4	27.2	27.7	28.3	27.2	28.2	28.2	28.2	28.2	28.2	28.2
5000	26.7	25.6	24.6	26.4	27.0	22.6	25.8	22.3	25.0	23.0	23.4	23.9	23.0	24.0	24.0	24.0	24.0	24.0	24.0
6300	22.0	21.0	19.9	21.6	22.2	18.2	21.3	17.5	20.4	18.6	19.0	19.2	18.6	19.5	19.6	19.6	19.6	19.6	19.6
8000	17.3	16.5	15.2	17.1	18.0	13.9	16.9	13.3	16.7	14.9	15.4	15.3	14.8	15.9	15.9	15.9	15.9	15.9	15.9
10000	12.2	11.8	10.2	12.2	13.5	9.1	12.2	9.0	12.8	10.9	11.7	11.1	10.9	11.9	11.9	11.9	11.9	11.9	11.9
12500	7.0	6.8	4.9	7.3	9.0	4.0	7.4	4.9	8.7	6.6	7.7	6.9	6.8	7.6	7.6	7.6	7.6	7.6	7.6
16000	1.3	1.4		1.9	4.1		2.3	.8	4.4	2.1	3.6	2.4	2.7	3.1	3.1	3.1	3.1	3.1	3.1
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 3F-708-001
RUN 02
AIRCRAFT CODE 708
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE J4

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

P=PNLT A=AL T=ALT

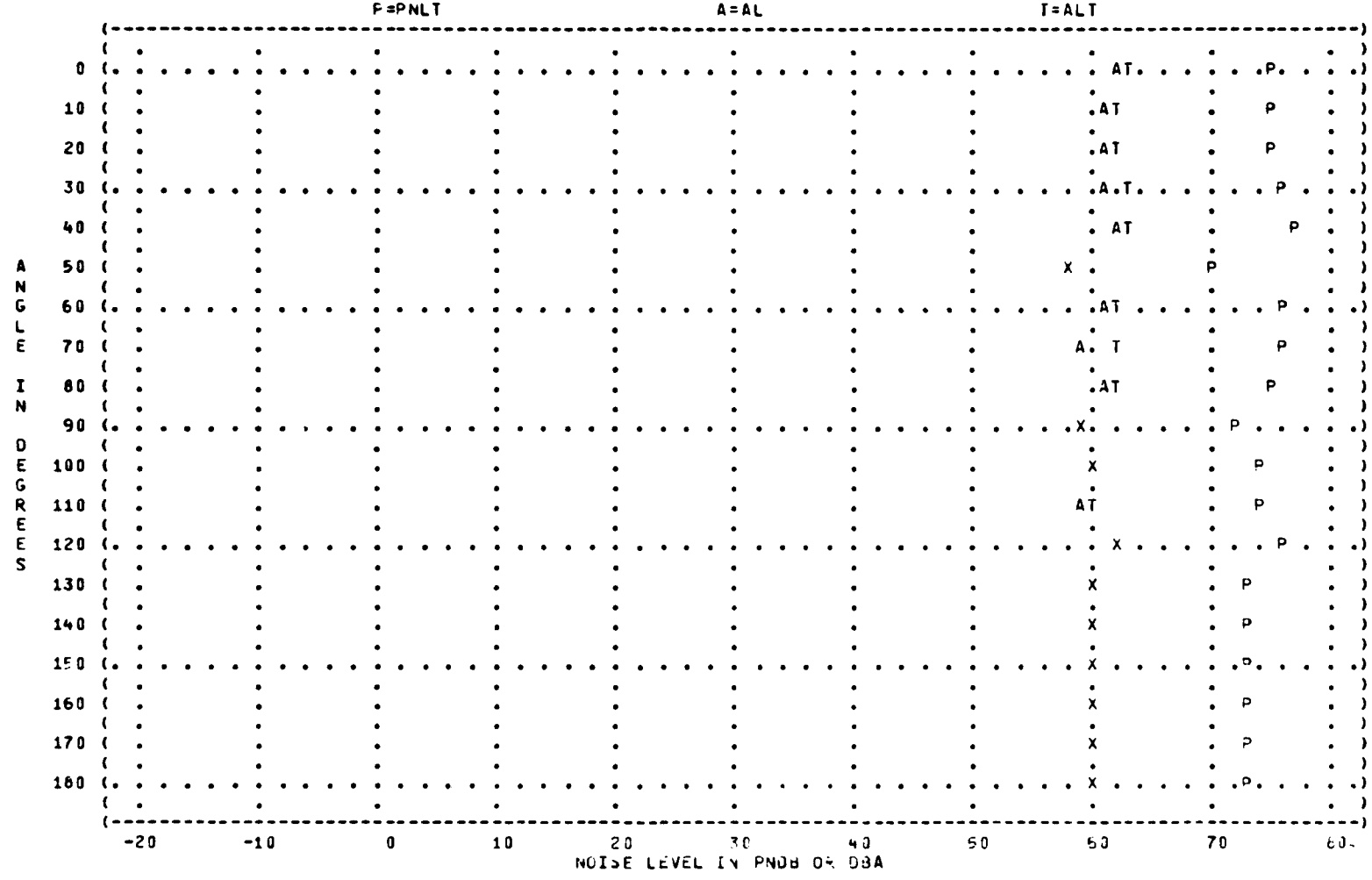


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
UMEGA 8.2
TEST BF-708-001
RUN 03
AIRCRAFT CODE 708
OPERATION CODE 00116
PROFILE VERSION A
20 NOV 81
PAGE C3

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
95% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	71	67	72	73	72	74	73	75	73	76	75	75	77	80	80	80	80	80	80
63	66	65	66	68	70	70	68	71	71	74	76	76	76	73	73	73	73	73	73
80	64<	63<	64<	65<	67<	68	66<	72	71	72	74	73	74	72	72	72	72	72	72
100	62<	62<	62<	63<	64<	65<	64<	70<	67<	70<	71<	71<	71<	70<	70<	70<	70<	70<	70<
125	61<	60<	60<	61<	61<	62<	62<	67<	64<	67<	69	69<	69<	68<	68<	68<	68<	68<	68<
160	59<	58<	58<	59<	59<	59<	60<	65<	60<	65<	66<	67<	65	66	66	66	66	66	66
200	57<	56<	56<	56<	56<	55<	58<	62<	57<	62	64	65	67	68	68	68	68	68	68
250	55<	54<	54<	54<	53<	52<	56<	60<	53<	60	61	65	70	69	69	69	69	69	69
315	54	52<	52<	52<	50<	49<	54<	58<	50<	54	54	57	59	61	61	61	61	61	61
400	53	50	50	50	47	46	52<	55<	46	50	50	52	52	54	54	54	54	54	54
500	56	57	55	56	56	56	50	53	51	48	49	52	52	53	53	53	53	53	53
630	57	55	53	54	52	56	50	50	51	49	49	50	50	52	52	52	52	52	52
800	55	50	51	51	51	52	49	50	50	50	50	51	51	52	52	52	52	52	52
1000	57	51	52	53	53	52	49<	50<	50<	50<	49<	51<	51	51	51	51	51	51	51
1250	60	56	54	55	56	55	50<	51	50<	49<	49<	51	53	53	53	53	53	53	53
1600	60	57	54	53	54	54	50	47	50	49	48	51	54	54	54	54	54	54	54
2000	56	54	52	52	52	50	48	46	49	48	49	51	52	53	53	53	53	53	53
2500	52	51	49	51	51	47	45	42	45	47	47	47	50	48	48	48	48	48	48
3150	48	40	40	42	42	41	39	39	44	47	46	46	47	47	47	47	47	47	47
4000	42	38	39	40	39	37	35	37	43	46	45	45	44	46	46	46	46	46	46
5000	49	44	43	42	42	42	38	39	45	47	46	46	45	47	47	47	47	47	47
6300	46	45	43	44	42	42	36	38	44	46	45	43	44	45	45	45	45	45	45
8000	46	45	42	42	41	42	37	37	43	45	43	42	48	44	44	44	44	44	44
10000	43	39	37	37	37	35	34	35	41	41	39	38	41	40	40	40	40	40	40
OVERALL	74	72	75	76	76	77	76	79	77	80	81	81	82	82	82	82	82	82	82

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
95% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 8F-708-001
RUN 03
AIRCRAFT CODE 708
OPERATION CODE 00115
PROFILE VERSION A
20 NOV 81
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	82.0	79.1	78.0	78.7	78.7	78.1	75.9	79.0	77.8	80.2	81.1	81.3	83.9	83.8	83.8	83.8	83.8	83.8	83.8
250	79.7	76.8	75.7	76.4	76.4	75.8	73.6	76.6	75.4	77.8	78.6	79.1	81.6	81.5	81.5	81.6	81.6	81.5	81.5
315	77.4	74.5	73.4	74.0	74.1	73.5	71.3	74.3	73.0	75.4	76.2	76.8	79.3	79.2	79.2	79.2	79.2	79.2	79.2
400	75.0	72.1	71.1	71.6	71.7	71.1	68.9	71.8	70.5	72.9	73.7	74.4	77.0	76.9	76.9	76.9	76.9	76.9	76.9
500	72.6	69.7	68.6	69.1	69.2	68.7	66.5	69.3	67.9	70.3	71.2	71.9	74.5	74.4	74.4	74.4	74.4	74.4	74.4
630	70.1	67.1	66.0	66.5	66.6	66.1	63.9	66.7	65.3	67.7	68.5	69.2	71.8	71.7	71.7	71.7	71.7	71.7	71.7
800	67.3	64.3	63.2	63.7	63.8	63.4	61.1	63.8	62.5	64.8	65.6	66.4	69.9	68.5	68.8	68.8	68.8	68.8	68.8
1000	64.5	61.4	60.2	60.5	60.6	60.3	58.0	60.9	59.4	61.8	62.6	63.3	65.8	65.8	65.8	65.8	65.8	65.8	65.8
1250	61.4	58.2	57.1	57.3	57.3	57.1	54.5	57.3	55.8	58.1	59.0	59.9	62.4	62.4	62.4	62.4	62.4	62.4	62.4
1600	58.1	54.8	53.6	53.9	53.8	53.6	50.6	53.4	51.7	53.6	54.6	55.9	58.5	58.5	58.5	58.5	58.5	58.5	58.5
2000	54.4	50.9	49.5	49.6	49.6	49.4	46.2	49.4	47.1	48.5	49.5	51.1	54.0	54.1	54.1	54.1	54.1	54.1	54.1
2500	50.1	45.9	44.2	45.0	44.8	45.0	41.2	44.5	41.8	43.4	44.0	45.8	48.7	48.9	48.9	48.9	48.9	48.9	48.9
3150	44.6	40.4	38.4	39.3	38.8	38.7	34.4	38.2	35.2	37.2	37.3	39.8	42.6	42.7	42.7	42.7	42.7	42.7	42.7
4000	39.0	34.8	33.0	33.9	33.1	33.4	27.6	29.2	27.4	26.5	26.5	30.0	34.0	34.4	34.4	34.4	34.4	34.4	34.4
5000	33.4	27.9	25.0	26.9	26.2	26.7	16.4	19.6	18.7	14.2	14.4	19.3	23.9	25.4	25.4	25.4	25.4	25.4	25.4
6300	25.3	17.0	13.0	16.0	13.8	15.5	5.1	10.3	9.9	1.9	2.3	9.3	13.9	16.4	16.4	16.4	16.4	16.4	16.4
8000	10.5	6.2	1.0	5.1	1.4	4.3		.9	1.2				3.8	7.4	7.4	7.4	7.4	7.4	7.4
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 03

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
95% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

AIRCRAFT CODE 70a
OPERATION CODE 00116
PROFILE VERSION A
20 NOV 81
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	83.6	80.5	79.3	80.2	80.7	79.9	75.9	79.0	77.8	80.2	81.1	81.5	83.1	84.3	84.6	84.6	84.6	84.6	84.6
250	81.4	78.2	77.0	77.9	78.3	77.6	73.6	76.6	75.4	77.8	78.6	79.1	82.8	82.3	82.3	82.3	82.3	82.3	82.3
315	79.0	75.9	74.7	75.6	76.0	75.3	71.3	74.3	73.0	75.4	76.2	76.6	80.5	80.0	80.0	80.0	80.0	80.0	80.0
400	76.7	73.6	72.3	73.2	73.6	72.9	68.9	71.8	70.5	72.9	73.7	74.4	78.1	77.6	77.6	77.6	77.6	77.6	77.6
500	74.2	71.1	69.9	70.7	71.1	70.5	66.5	69.3	67.9	70.3	71.2	71.9	75.6	75.2	75.2	75.2	75.2	75.2	75.2
630	71.7	68.5	67.3	68.1	68.5	67.9	63.9	66.7	65.3	67.7	68.5	69.2	72.9	72.5	72.5	72.5	72.5	72.5	72.5
800	69.0	65.8	64.5	65.2	65.7	65.2	61.1	63.8	62.5	64.9	65.6	66.4	70.0	69.8	69.8	69.8	69.8	69.8	69.8
1000	66.1	62.8	61.5	62.1	62.5	62.2	58.0	60.9	59.4	61.8	62.6	63.3	67.0	66.3	66.3	66.6	66.6	66.3	66.6
1250	63.0	59.6	58.3	58.9	59.3	59.0	54.5	57.3	55.8	58.1	59.0	59.9	63.5	63.2	63.2	63.2	63.2	63.2	63.2
1600	59.7	56.3	54.8	55.4	55.7	55.4	50.6	53.4	51.7	53.6	54.8	55.3	59.7	59.3	59.3	59.3	59.3	59.3	59.3
2000	56.1	52.4	50.7	51.1	51.5	51.2	46.2	49.4	47.1	48.5	49.5	51.1	55.2	54.9	54.9	54.9	54.9	54.9	54.9
2500	51.7	47.4	45.5	46.6	46.7	46.8	41.2	44.5	41.8	43.4	44.0	45.8	49.9	49.7	49.7	49.7	49.7	49.7	49.7
3150	46.3	41.9	39.6	40.9	40.7	40.6	34.4	38.2	35.2	37.2	37.3	39.8	43.8	43.5	43.5	43.5	43.5	43.5	43.5
4000	40.3	36.0	34.0	35.2	34.6	34.9	27.6	29.2	27.4	28.5	28.5	30.6	34.9	35.0	35.0	35.0	35.0	35.0	35.0
5000	34.4	28.7	25.8	27.8	27.4	27.8	16.4	19.8	16.7	14.2	14.4	19.9	24.8	25.9	25.9	25.9	25.9	25.9	25.9
6300	26.0	17.6	13.5	16.6	14.6	16.2	5.1	10.3	9.9	1.9	2.3	9.3	14.3	16.7	16.7	16.7	16.7	16.7	16.7
8000	10.8	6.5	1.2	5.4	1.8	4.6		.9	1.2				4.0	7.6	7.6	7.6	7.6	7.6	7.6
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 3F-708-001
RUN 03
AIRCRAFT CODE 708
OPERATION CODE 00116
PROFILE VERSION A
20 NOV 81
PAGE F3

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
95% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	69.1	65.9	64.7	65.2	65.1	64.9	62.2	64.4	63.0	64.6	65.1	66.4	68.3	68.3	68.3	68.3	68.3	68.3	68.3
250	66.9	63.8	62.6	63.1	63.0	62.8	60.1	62.3	60.9	62.5	63.0	64.3	66.2	66.3	66.3	66.3	66.3	66.3	66.3
315	64.8	61.7	60.5	60.9	60.9	60.7	58.0	60.2	58.7	60.3	60.9	62.2	64.1	64.2	64.2	64.2	64.2	64.2	64.2
400	62.6	59.5	58.3	58.7	58.7	58.5	55.9	58.1	56.6	58.1	58.7	60.1	62.0	62.1	62.1	62.1	62.1	62.1	62.1
500	60.4	57.2	56.1	56.5	56.5	56.3	53.7	55.9	54.3	55.9	56.5	57.9	59.8	59.9	59.8	59.8	59.8	59.8	59.8
630	58.1	54.9	53.8	54.2	54.2	54.1	51.4	53.7	52.0	53.5	54.2	55.6	57.4	57.4	57.4	57.4	57.4	57.4	57.4
800	55.7	52.6	51.4	51.9	51.9	51.8	49.1	51.3	49.6	51.1	51.7	53.0	54.8	54.9	54.9	54.9	54.9	54.9	54.9
1000	53.3	50.2	49.0	49.5	49.4	49.4	46.7	48.6	47.2	48.2	49.1	50.4	52.2	52.3	52.3	52.3	52.3	52.3	52.3
1250	50.8	47.6	46.5	47.0	46.9	46.9	44.1	46.1	44.6	45.7	46.3	47.6	49.3	49.5	49.5	49.5	49.5	49.5	49.5
1600	48.1	44.9	43.9	44.3	44.2	44.3	41.3	43.3	41.8	42.7	43.3	44.6	46.3	46.5	46.5	46.5	46.5	46.5	46.5
2000	45.3	42.2	41.1	41.5	41.4	41.6	38.4	40.3	38.8	39.6	40.0	41.4	42.9	43.2	43.2	43.2	43.2	43.2	43.2
2500	42.4	39.2	38.1	38.6	38.4	38.7	35.3	36.9	35.7	36.1	36.4	37.9	39.4	39.7	39.7	39.7	39.7	39.7	39.7
3150	39.1	35.9	34.8	35.3	35.1	35.5	31.8	33.3	32.3	32.4	32.6	34.1	35.5	35.9	35.9	35.9	35.9	35.9	35.9
4000	35.5	32.1	31.1	31.6	31.4	31.9	28.0	29.3	28.6	28.4	28.4	30.0	31.3	31.7	31.7	31.7	31.7	31.7	31.7
5000	31.5	28.0	27.0	27.5	27.4	27.8	23.9	25.1	24.5	24.3	24.2	25.8	27.0	27.4	27.4	27.4	27.4	27.4	27.4
6300	27.0	23.5	22.6	23.2	23.0	23.4	19.4	20.7	20.1	19.8	19.7	21.3	22.4	22.8	22.8	22.6	22.8	22.8	22.8
8000	22.6	19.2	18.4	19.0	18.7	19.4	15.5	16.9	16.1	16.0	16.0	17.4	18.5	19.0	19.0	19.0	19.0	19.0	19.0
10000	17.8	14.7	13.9	14.6	14.2	15.1	11.3	13.0	11.9	12.1	12.3	13.5	14.6	15.1	15.1	15.1	15.1	15.1	15.1
12500	12.6	10.0	9.2	9.9	9.4	10.5	6.9	9.0	7.5	8.1	8.7	9.6	10.7	11.2	11.2	11.2	11.2	11.2	11.2
16000	7.1	5.0	4.2	4.9	4.5	5.7	2.4	5.0	3.1	4.4	5.1	5.8	7.0	7.4	7.4	7.4	7.4	7.4	7.4
20000	1.4					.8		1.2		.8	1.8	2.2	3.4	3.7	3.7	3.7	3.7	3.7	3.7
25000													.0	.2	.2	.2	.2	.2	.2

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 9F-708-001
RUN 03
AIRCRAFT CODE 708
OPERATION CODE 00115
PROFILE VERSION A
20 NOV 91
PAGE G3

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
95% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	70.7	67.4	66.0	66.7	67.1	66.7	62.2	64.4	63.0	64.6	55.1	66.4	69.4	69.1	69.1	69.1	69.1	69.1	69.1
250	68.6	65.2	63.9	64.6	64.9	64.6	60.1	62.3	60.9	62.5	63.0	64.3	67.4	67.1	67.1	67.1	67.1	67.1	67.1
315	66.4	63.1	61.7	62.5	62.8	62.5	58.0	60.2	58.7	60.3	60.9	62.2	65.3	65.0	65.0	65.0	65.0	65.0	65.0
400	64.3	60.9	59.5	60.3	60.6	60.3	55.9	58.1	56.6	58.1	58.7	60.1	63.2	62.8	62.0	62.8	62.8	62.8	62.8
500	62.0	58.7	57.3	58.1	58.4	58.1	53.7	55.9	54.3	55.9	56.5	57.9	60.9	60.6	60.6	60.6	60.6	60.6	60.6
630	59.7	56.4	55.0	55.8	56.1	55.9	51.4	53.7	52.0	53.5	54.2	55.5	58.5	58.2	58.2	58.2	58.2	58.2	58.2
800	57.4	54.0	52.7	53.5	53.8	53.6	49.1	51.3	49.6	51.1	51.7	53.0	56.0	55.7	55.7	55.7	55.7	55.7	55.7
1000	55.0	51.6	50.3	51.0	51.4	51.2	46.7	48.6	47.2	48.5	49.1	50.4	53.3	53.1	53.1	53.1	53.1	53.1	53.1
1250	52.4	49.0	47.7	48.5	48.8	48.7	44.1	46.1	44.5	45.7	46.3	47.6	50.5	50.3	50.3	50.3	50.3	50.3	50.3
1600	49.8	46.4	45.1	45.9	46.1	46.1	41.3	43.6	41.8	42.7	43.3	44.6	47.4	47.3	47.3	47.3	47.3	47.3	47.3
2000	47.0	43.6	42.3	43.1	43.3	43.4	38.4	40.3	38.6	39.6	40.0	41.4	44.1	44.0	44.0	44.0	44.0	44.0	44.0
2500	44.0	40.6	39.3	40.1	40.3	40.5	35.3	36.9	35.1	36.1	36.4	37.9	40.5	40.5	40.5	40.5	40.5	40.5	40.5
3150	40.8	37.3	36.0	36.8	37.0	37.3	31.8	33.3	32.3	32.4	32.6	34.1	36.6	36.7	36.7	36.7	36.7	36.7	36.7
4000	36.8	33.3	32.1	32.9	33.0	33.3	28.0	29.3	28.0	28.4	28.4	30.0	32.2	32.4	32.4	32.4	32.4	32.4	32.4
5000	32.4	28.9	27.8	28.5	28.5	28.9	23.9	25.1	24.5	24.3	24.2	25.8	27.6	27.3	27.9	27.9	27.9	27.9	27.9
6300	27.7	24.1	23.1	23.8	23.7	24.2	19.4	20.7	20.1	19.8	19.7	21.3	22.9	23.1	23.1	23.1	23.1	23.1	23.1
8000	22.9	19.5	18.7	19.3	19.1	19.8	15.5	16.9	16.1	16.0	16.0	17.4	19.8	19.2	19.2	19.2	19.2	19.2	19.2
10000	17.8	14.7	13.9	14.6	14.2	15.1	11.3	13.0	11.9	12.1	12.3	13.5	14.6	15.1	15.1	15.1	15.1	15.1	15.1
12500	12.6	10.0	9.2	9.9	9.4	10.5	6.9	9.0	7.5	8.1	8.7	9.6	10.7	11.2	11.2	11.2	11.2	11.2	11.2
16000	7.1	5.0	4.2	4.9	4.5	5.7	2.4	5.0	3.1	4.4	5.1	5.8	7.0	7.4	7.4	7.4	7.4	7.4	7.4
20000	1.4					.8		1.2		.0	1.8	2.2	3.4	3.7	3.7	3.7	3.7	3.7	3.7
25000													.0	.2	.2	.2	.2	.2	.2

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
95% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 03
AIRCRAFT CODE 708
OPERATION CODE 00115
PROFILE VERSION A
20 NOV 81
PAGE J3

P=PNLT A=AL T=ALT

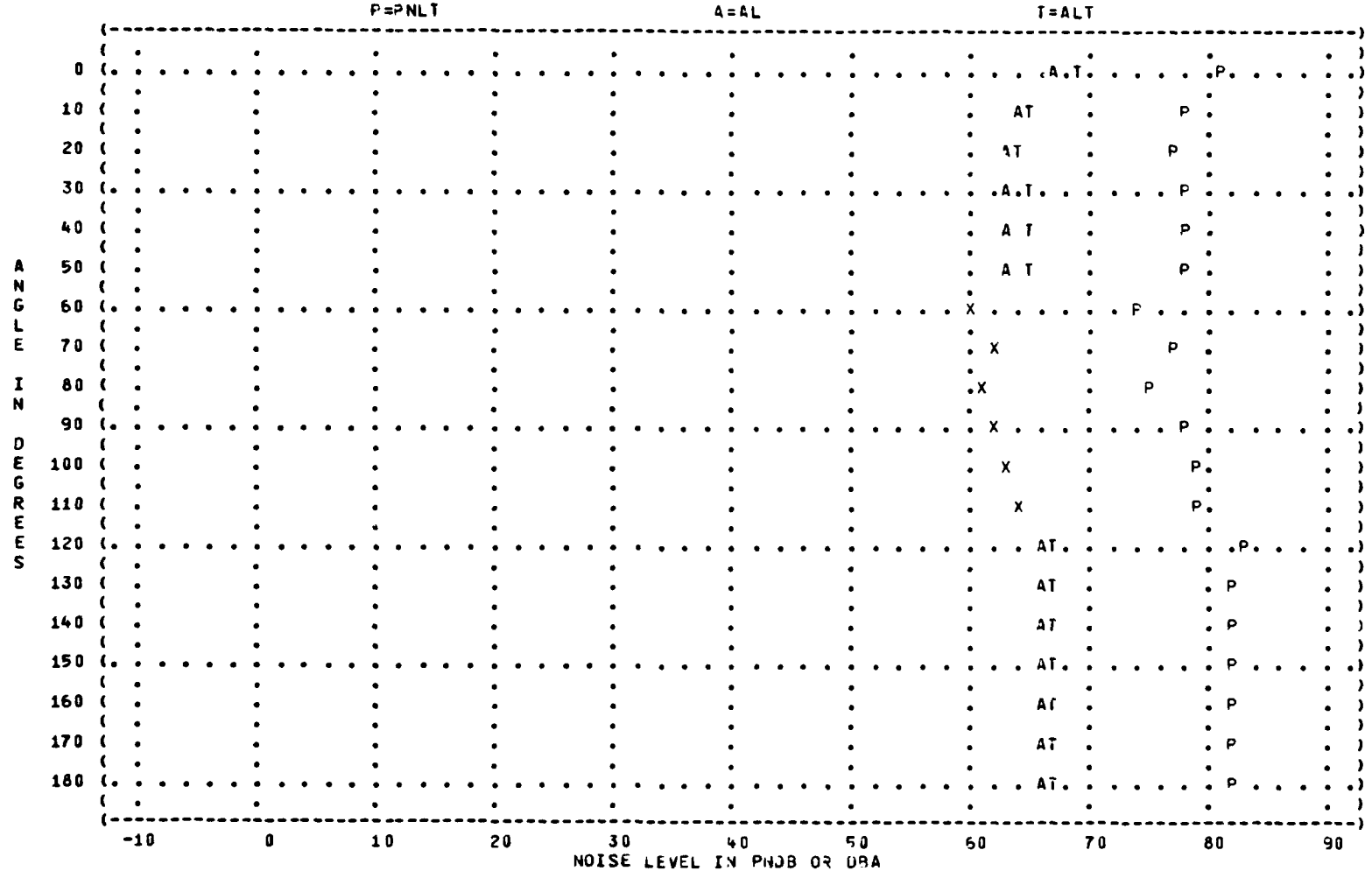


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 8F-708-001
RUN 04
AIRCRAFT CODE 708
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE C2

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	69	64<	64<	71	72	75	76	72	76	76	75	76	77	80	80	80	85	82	85
63	65	64	64	65	67	73	69	67	71	74	75	77	75	74	74	74	79	71	79
80	69	63<	63<	63<	65<	68	68	66<	69	71	73	74	73	73	73	73	74	69	74
100	67<	61<	61<	61<	64<	65<	65<	65<	65<	63<	71<	72<	72<	71<	71<	71<	72<	67<	72<
125	65<	59<	59<	59<	62<	62<	62<	63<	63<	66<	68<	70	70	69	69	69	70	64<	69
160	63<	57<	56<	58<	61<	59<	59<	62<	60<	64<	66<	69<	67	69	69	69	66	62<	67
200	61<	55<	56<	56<	60<	55<	57<	61<	57<	62	63	67	68	66	68	68	63	60<	63
250	59	53<	54<	54<	58	53<	54<	59<	54<	60	63	65	70	70	70	70	66	58<	66
315	53	51	52<	52	53<	50<	51	58<	51	55	55	58	60	63	63	63	58	56	58
400	53	51	51	50	47	47	49	56<	48	50	49	53	54	56	56	56	58	56	57
500	58	56	56	56	55	59	58	55<	52	50	49	51	54	55	55	55	59	55	59
630	55	55	55	55	54	59	55	54<	52	51	49	49	53	54	54	54	60	54	59
800	51	51	52	50	50	54	55	52<	51	51	51	50	54	55	55	55	58	51	58
1000	52	52	52	52	51	53	51	51<	51<	50<	50<	51<	53	55	55	55	58	51	58
1250	56	55	55	54	54	55	56	49<	51<	49<	49<	52	53	56	56	56	61	51<	61
1600	57	56	56	55	54	55	55	48	50	49	48	53	54	56	56	56	58	52	58
2000	59	59	59	59	56	51	51	45	48	47	47	52	53	56	56	56	54	51	54
2500	46	46	46	49	50	48	48	47	46	46	46	49	52	51	51	51	52	48	52
3150	44	45	46	42	40	42	44	46	46	46	45	48	49	49	49	49	50	46	50
4000	44	43	44	38	37	40	42	41	45	46	44	46	44	47	47	47	48	45	48
5000	43	44	43	41	40	43	45	43	46	47	44	46	45	48	48	48	49	45	48
6300	43	43	42	42	40	42	45	42	45	45	43	44	44	46	46	46	47	44	46
8000	44	42	41	45	40	41	44	44	45	46	42	43	43	44	44	44	46	43	46
10000	41	39	39	42	38	38	41	40	41	40	38	39	39	41	41	41	43	42	43
OVERALL	75	71	71	74	75	78	78	75	78	80	81	82	82	83	83	83	87	82	87

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 53 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 04
AIRCRAFT CODE 708
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	82.1	80.6	80.6	80.9	79.7	79.3	79.6	78.0	78.5	79.7	80.6	82.7	84.4	85.3	85.3	85.3	87.3	82.0	87.2
250	79.9	78.3	78.4	78.6	77.4	77.0	77.3	75.6	76.0	77.3	78.2	80.4	82.1	83.0	83.0	83.0	84.7	79.5	84.7
315	77.6	76.0	76.1	76.3	75.1	74.6	74.9	73.2	73.5	74.9	75.7	78.0	79.8	80.7	80.7	80.7	82.2	76.9	82.1
400	75.2	73.7	73.7	73.9	72.7	72.3	72.6	70.9	71.0	72.4	73.3	75.6	77.4	78.3	78.3	78.3	79.6	74.3	79.5
500	72.7	71.2	71.3	71.5	70.3	69.8	70.1	68.4	68.4	69.8	70.7	72.9	75.0	75.8	75.8	75.8	76.9	71.6	76.9
630	70.2	68.6	68.7	68.9	67.7	67.3	67.6	65.9	65.6	67.2	68.1	70.2	72.3	73.1	73.1	73.1	74.2	68.9	74.1
800	67.5	65.9	65.9	66.1	64.9	64.6	64.8	63.2	63.0	64.3	65.2	67.4	69.4	70.3	70.3	70.3	71.4	66.1	71.3
1000	64.6	62.9	63.0	63.2	61.9	61.7	61.9	60.3	59.9	61.2	62.2	64.3	66.4	67.3	67.3	67.3	68.5	63.1	68.4
1250	61.4	59.8	59.8	60.0	58.7	58.6	58.6	57.1	56.9	57.5	58.6	60.9	63.1	64.0	64.0	64.0	65.4	59.7	65.3
1600	57.9	56.2	56.3	56.6	55.2	55.2	55.1	53.5	52.4	53.8	54.2	57.0	59.3	60.3	60.3	60.3	62.1	56.1	62.0
2000	54.2	52.5	52.5	52.8	51.2	51.6	51.1	49.7	47.9	48.3	49.1	52.3	54.9	56.0	56.0	56.0	57.8	51.4	57.7
2500	49.7	48.0	48.1	48.2	46.3	47.3	46.5	44.5	42.9	43.0	43.6	47.2	49.6	51.0	51.0	51.0	53.2	46.4	53.1
3150	44.3	42.6	42.5	42.7	40.4	41.7	40.0	38.9	39.8	37.5	37.4	41.4	43.8	45.4	45.4	45.4	49.1	40.0	48.0
4000	37.5	36.7	36.6	36.9	33.8	36.6	35.0	32.4	28.8	28.3	27.6	32.7	39.2	38.7	38.7	38.7	41.9	33.8	41.7
5000	30.8	29.5	29.3	29.6	25.7	30.7	28.4	22.6	19.6	17.0	15.6	20.6	27.5	30.5	30.5	30.5	35.0	29.4	34.9
6300	20.0	18.5	18.2	17.8	12.7	23.4	19.4	12.8	10.3	5.6	3.4	8.6	14.8	20.2	20.2	20.2	27.2	12.1	27.1
8000	8.5	7.4	7.0	6.1		13.9	8.5	3.1	1.1				2.1	9.9	9.9	9.9	18.9		18.5
10000						4.5											10.6		9.9
12500																	2.4		1.3
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 04
AIRCRAFT CODE 708
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE E2

DISTANCE	ANGLE (DEGREES)																		
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	84.7	83.2	83.2	83.3	81.2	81.6	81.5	78.0	78.5	80.3	80.6	82.7	85.4	86.0	86.0	86.0	88.4	82.0	88.3
250	82.5	80.9	80.9	81.0	78.9	79.3	79.3	75.6	76.0	77.9	78.2	80.4	83.1	83.7	83.7	83.7	85.9	79.5	85.8
315	80.1	78.6	78.6	78.7	76.6	77.0	76.9	73.2	73.5	75.4	75.7	78.0	80.8	81.4	81.4	81.4	83.3	76.9	83.2
400	77.8	76.3	76.2	76.3	74.3	74.6	74.5	70.9	71.0	72.9	73.3	75.6	78.4	79.0	79.0	79.0	80.7	74.3	80.6
500	75.3	73.8	73.8	73.9	71.8	72.2	72.1	68.4	68.4	70.3	70.7	72.9	75.9	76.5	76.5	76.5	78.0	71.6	78.0
630	72.8	71.2	71.2	71.3	69.2	69.6	69.5	65.9	65.8	67.7	68.1	70.2	73.2	73.9	73.9	73.9	75.3	68.9	75.3
800	70.1	68.5	68.5	68.5	66.5	66.9	66.8	63.2	63.0	64.8	65.2	67.4	70.4	71.0	71.0	71.0	72.5	66.1	72.5
1000	67.2	65.5	65.5	65.5	63.5	64.0	63.8	60.3	59.9	61.8	62.2	64.3	67.4	68.0	68.0	68.0	69.6	63.1	69.5
1250	64.0	62.4	62.4	62.4	60.3	60.9	60.8	57.1	56.5	58.1	58.6	60.9	64.1	64.7	64.7	64.7	66.5	59.7	66.5
1600	60.4	58.8	58.8	58.9	56.7	57.6	57.1	53.5	52.4	53.4	54.2	57.0	60.3	61.0	61.0	61.0	63.2	56.1	63.1
2000	56.7	55.1	55.0	55.2	52.8	54.0	53.0	49.7	47.3	48.8	49.1	52.3	55.8	56.7	56.7	56.7	58.9	51.4	58.8
2500	52.3	50.6	50.6	50.5	47.9	49.6	48.5	44.5	42.9	44.1	43.6	47.2	50.6	51.7	51.7	51.7	54.3	46.4	54.2
3150	46.8	45.2	45.1	45.0	42.0	44.1	42.5	38.9	35.8	38.1	37.4	41.4	44.6	46.1	46.1	46.1	49.2	40.6	49.1
4000	39.6	38.8	38.6	38.8	35.0	38.5	36.6	32.4	28.8	28.7	27.8	32.7	37.0	39.3	39.3	39.3	42.8	33.8	42.6
5000	32.3	31.1	30.8	31.0	26.6	32.1	29.6	22.6	19.6	17.3	15.8	20.6	29.1	30.9	30.9	30.9	35.7	25.4	35.5
6300	21.0	19.5	19.2	18.8	13.3	24.3	20.2	12.8	10.3	5.9	3.4	8.6	15.2	20.5	20.5	20.5	27.6	12.1	27.5
8000	9.0	8.0	7.5	6.6	.1	14.4	8.9	3.1	1.1				2.3	10.0	10.0	10.0	19.1		18.7
10000						4.5											10.6		9.9
12500																	2.4		1.3
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 04
AIRCRAFT CODE 703
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE F2

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.8	66.7	66.7	66.7	65.5	66.3	65.8	64.3	63.0	64.4	65.0	67.4	69.0	70.0	70.0	70.0	71.0	65.4	70.9
250	65.7	64.6	64.5	64.6	63.4	64.2	63.7	62.2	61.5	62.3	62.9	65.3	66.9	68.0	68.0	68.0	68.9	63.3	68.8
315	63.5	62.4	62.4	62.4	61.3	62.1	61.6	60.1	59.3	60.2	60.8	63.2	64.8	65.9	65.9	65.9	66.8	61.2	66.7
400	61.3	60.2	60.2	60.2	59.1	60.0	59.4	57.9	57.1	58.0	58.7	61.1	62.7	63.7	63.7	63.7	64.6	59.0	64.5
500	59.1	58.0	57.9	57.9	56.9	57.8	57.2	55.7	54.8	55.8	56.5	58.8	60.5	61.5	61.5	61.5	62.4	56.8	62.4
630	56.8	55.7	55.6	55.6	54.6	55.6	55.0	53.4	52.5	53.4	54.1	56.5	58.1	59.1	59.1	59.1	60.2	54.5	60.1
800	54.4	53.3	53.3	53.2	52.2	53.3	52.6	51.1	50.1	51.0	51.7	54.0	55.6	56.7	56.7	56.7	57.8	52.2	57.7
1000	51.9	50.8	50.8	50.8	49.7	51.0	50.2	48.7	47.6	48.4	49.1	51.4	52.9	54.1	54.1	54.1	55.4	49.8	55.3
1250	49.3	48.2	48.2	48.2	47.1	48.6	47.7	46.1	45.0	45.7	46.3	48.6	50.1	51.3	51.3	51.3	52.9	47.2	52.8
1600	46.6	45.5	45.5	45.4	44.3	46.0	45.1	43.4	42.3	42.8	43.2	45.5	47.1	48.4	48.4	48.4	50.3	44.6	50.1
2000	43.7	42.7	42.6	42.5	41.4	43.4	42.4	40.7	39.3	39.7	40.0	42.2	43.9	45.2	45.2	45.2	47.4	41.8	47.3
2500	40.6	39.6	39.6	39.4	38.3	40.6	39.5	37.5	36.2	36.4	36.5	38.0	40.4	41.8	41.8	41.8	44.4	38.6	44.2
3150	37.1	36.2	36.2	36.0	34.9	37.4	36.2	34.1	32.8	32.8	32.7	34.7	36.6	38.1	38.1	38.1	41.0	35.1	40.9
4000	33.3	32.5	32.4	32.2	31.2	33.8	32.6	30.4	29.1	28.9	28.6	30.5	32.6	34.1	34.1	34.1	37.3	31.2	37.2
5000	29.0	28.2	28.2	27.9	27.0	29.8	28.5	26.2	25.0	24.8	24.4	26.2	28.3	29.9	29.9	29.9	33.3	27.0	33.1
6300	24.4	23.7	23.7	23.3	22.5	25.4	24.2	21.8	20.7	20.4	20.0	21.7	23.9	25.4	25.4	25.4	28.9	22.5	28.8
8000	20.1	19.3	19.3	18.9	18.2	21.6	20.1	18.1	16.7	16.6	16.2	17.9	20.0	21.4	21.4	21.4	24.9	18.7	24.7
10000	15.7	14.8	14.8	14.3	13.8	17.4	15.8	14.0	12.5	12.6	12.4	14.0	15.0	17.3	17.3	17.3	20.6	14.8	20.4
12500	11.0	9.9	9.9	9.6	9.1	13.0	11.3	9.7	8.1	8.5	8.6	10.2	12.0	13.1	13.1	13.1	16.2	10.8	16.0
16000	6.2	4.9	4.8	4.6	4.3	8.2	6.5	5.1	3.8	4.5	5.0	6.6	8.0	8.9	8.9	8.9	11.7	6.8	11.6
20000	1.2					3.1	1.6	.4		.7	1.6	3.2	4.2	5.0	5.0	5.0	7.6	2.9	7.4
25000													.6	1.2	1.2	1.2	3.9		3.7

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 04
AIRCRAFT CODE 70d
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	70.4	69.3	69.2	69.1	67.1	68.7	67.8	64.3	63.6	65.0	65.0	67.4	69.9	70.3	70.8	70.8	72.1	65.4	72.0
250	68.2	67.2	67.1	66.9	65.0	66.6	65.7	62.2	61.5	62.9	62.9	65.3	67.9	68.7	68.7	68.7	70.0	63.3	69.9
315	66.1	65.0	64.9	64.8	62.8	64.5	63.6	60.1	59.3	60.7	60.8	63.2	65.8	66.5	66.6	66.6	67.9	61.2	67.8
400	63.9	62.8	62.7	62.6	60.7	62.3	61.4	57.9	57.1	58.6	58.7	61.1	63.7	64.4	64.4	64.4	65.7	59.0	65.7
500	61.7	60.6	60.5	60.3	58.4	60.2	59.2	55.7	54.8	56.3	56.5	58.8	61.4	62.2	62.2	62.2	63.6	56.8	63.5
630	59.4	58.3	58.2	58.0	56.1	57.9	56.9	53.4	52.5	53.9	54.1	56.5	59.0	59.8	59.8	59.8	61.3	54.5	61.2
800	57.0	55.9	55.8	55.6	53.7	55.7	54.6	51.1	50.1	51.5	51.7	54.0	56.5	57.4	57.4	57.4	59.0	52.2	58.9
1000	54.5	53.4	53.3	53.1	51.2	53.3	52.2	48.7	47.6	49.0	49.1	51.4	53.9	54.8	54.8	54.8	56.6	49.3	56.5
1250	51.9	50.8	50.7	50.5	48.6	50.9	49.7	46.1	45.0	46.3	46.3	48.6	51.1	52.0	52.0	52.0	54.0	47.2	53.9
1600	49.1	48.1	48.0	47.8	45.9	48.4	47.1	43.4	42.3	43.3	43.2	45.5	48.1	49.1	49.1	49.1	51.4	44.5	51.3
2000	46.3	45.3	45.2	44.9	43.0	45.7	44.4	40.7	39.3	40.3	40.0	42.2	44.9	45.9	45.9	45.9	48.5	41.8	48.4
2500	43.1	42.2	42.1	41.8	39.9	42.9	41.4	37.5	36.2	36.9	36.5	38.8	41.4	42.5	42.5	42.5	45.5	38.5	45.3
3150	39.7	38.8	38.7	38.4	36.5	39.8	38.2	34.1	32.8	33.4	32.7	34.7	37.6	38.8	38.8	38.8	42.1	35.1	42.0
4000	35.3	34.6	34.5	34.1	32.4	35.7	34.2	30.4	29.1	29.4	28.8	30.5	33.4	34.7	34.7	34.7	38.2	31.2	38.1
5000	30.6	29.8	29.7	29.3	27.9	31.2	29.7	26.2	25.0	25.1	24.4	26.2	29.9	30.3	30.3	30.3	33.9	27.0	33.8
6300	25.5	24.7	24.7	24.2	23.1	26.4	25.0	21.8	20.7	20.6	20.0	21.7	24.2	25.7	25.7	25.7	29.3	22.5	29.2
8000	20.6	19.8	19.8	19.4	18.5	22.0	20.5	18.1	16.7	16.7	16.2	17.9	20.2	21.5	21.5	21.5	25.1	18.7	24.9
10000	15.7	14.8	14.6	14.3	13.8	17.4	15.8	14.0	12.5	12.6	12.4	14.0	15.0	17.3	17.3	17.3	20.6	14.8	20.4
12500	11.0	9.9	9.9	9.6	9.1	13.0	11.3	9.7	8.1	8.5	8.6	10.2	12.0	13.1	13.1	13.1	16.2	10.8	16.0
16000	6.2	4.9	4.8	4.6	4.3	8.2	6.5	5.1	3.8	4.5	5.0	6.6	8.0	8.9	8.9	8.9	11.7	6.8	11.6
20000	1.2					3.1	1.6	.4		.7	1.6	3.2	4.2	5.0	5.0	5.0	7.6	2.9	7.4
25000													.6	1.2	1.2	1.2	3.9		3.7

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 04
AIRCRAFT CODE 708
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE J2

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

P=PNLT A=AL T=ALT

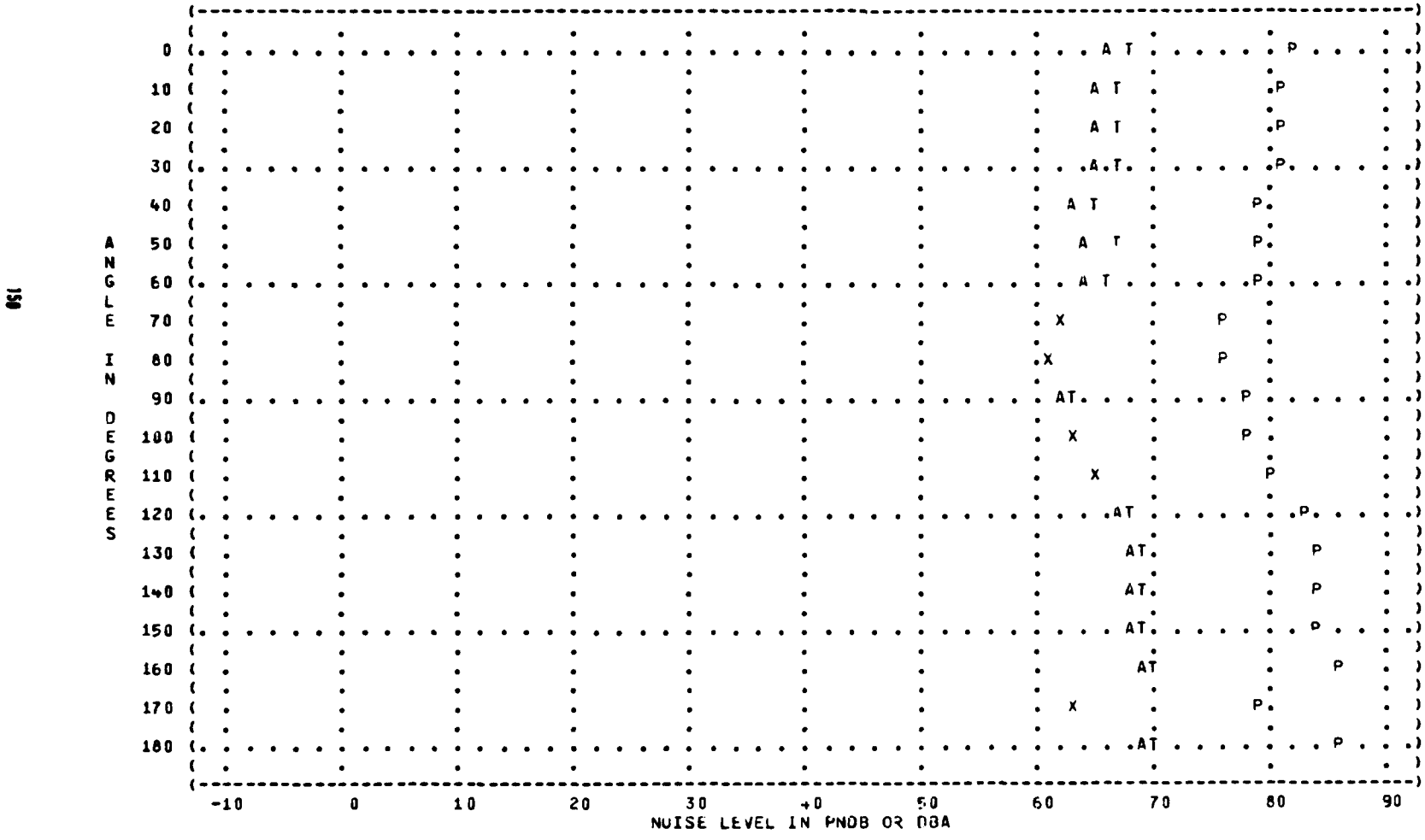


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 05
AIRCRAFT CODE 708
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE C1

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	80	80	84	84	85	87	84	90	88	87	92	93	95	97	97	97	100	98	97
63	77	77	77	79	81	83	83	85	86	85	87	88	90	93	93	93	96	91	91
80	78	72	76	78	79	78	80	82	85	87	87	88	90	89	89	89	90	87	88
100	76	71<	73<	75<	75<	76	76	78	79	85	86	87	90	88	88	86	87	86	86
125	75	71	70	73	71	73	71	72	75	80	83	82	83	83	83	83	84	82	82
160	70	68	66	69	67	67	66	70	71	76	79	79	80	79	79	79	81	80	79
200	63	62	63	67	64	63	63	66	68	72	76	77	77	77	77	77	78	77	77
250	63	61	61	63	62	62	62	64	67	71	75	75	78	77	77	77	76	74	74
315	60	57	59	61	57	57	56	59	63	67	69	70	71	71	71	71	71	70	70
400	58	58	56	59	55	56	55	56	60	63	64	66	66	68	68	68	66	69	69
500	63	64	60	64	62	63	59	62	62	63	64	65	65	67	67	67	64	67	67
630	62	62	60	62	60	64	59	60	64	62	64	63	65	67	67	67	65	68	68
800	60	60	59	60	60	62	60	60	64	63	64	64	66	67	67	67	65	68	68
1000	60	61	59	62	61	62	58	59	63	63	64	64	66	67	67	67	66	69	69
1250	64	67	63	65	64	64	61	61	63	62	64	66	68	68	68	69	69	69	69
1600	64	67	64	64	64	63	61	59	62	64	63	65	68	69	69	69	65	68	68
2000	60	63	61	62	59	58	57	56	59	62	61	64	65	68	68	68	61	64	64
2500	53	57	56	58	57	54	52	51	56	60	59	60	63	62	62	62	59	62	62
3150	46	46	46	47	47	48	47	49	55	57	57	58	60	59	59	59	57	60	60
4000	44	44	44	44	44	45	45	47	53	54	55	55	55	55	55	55	54	57	57
5000	47	49	46	48	47	47	46	47	54	54	55	54	55	56	55	55	53	56	56
6300	46	50	45	48	46	46	45	46	53	53	54	52	53	53	53	53	52	55	55
8000	47	49	45	46	45	45	45	45	51	51	52	51	54	52	52	52	51	54	54
10000	44	43	44	43	43	43	43	44	48	46	48	47	50	49	49	49	49	52	52
OVERALL	85	83	86	87	87	89	88	92	92	93	95	96	98	100	100	100	102	99	98

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-706-001
RUN 05
AIRCRAFT CODE 706
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	87.6	88.5	87.1	88.5	87.9	89.3	87.9	91.3	92.6	94.6	96.2	96.8	93.8	99.8	99.6	99.8	100.7	99.7	99.2
250	85.5	86.2	84.6	86.3	85.4	86.8	85.4	88.9	90.3	92.4	94.1	94.7	93.7	97.7	97.7	97.7	98.6	97.6	97.1
315	83.2	83.9	82.3	84.0	83.1	84.2	82.9	86.3	87.8	90.2	91.7	92.5	94.6	95.5	95.6	95.6	96.5	95.4	95.0
400	80.8	81.6	79.9	81.6	80.7	81.7	80.3	83.7	85.4	87.9	89.3	90.1	92.4	93.5	93.5	93.5	94.4	93.3	92.8
500	78.4	79.2	77.5	79.2	78.3	79.0	77.7	81.0	82.8	85.5	86.9	87.8	90.1	91.2	91.2	91.2	92.2	91.0	90.4
630	75.9	76.7	75.0	76.7	75.8	76.3	75.1	78.3	80.2	82.9	84.3	85.3	87.7	88.6	88.6	88.6	89.9	88.4	87.7
800	73.3	74.1	72.4	74.1	73.2	73.6	72.4	75.4	77.6	80.1	81.5	82.5	85.1	85.0	85.8	85.8	87.4	85.5	84.9
1000	70.5	71.4	69.6	71.3	70.4	70.7	69.5	72.5	74.8	77.0	78.4	79.3	81.9	82.3	82.9	82.9	84.5	82.6	82.0
1250	67.6	68.4	66.7	68.4	67.5	67.7	66.9	69.5	71.4	73.6	74.9	75.9	78.5	79.8	79.8	79.8	81.4	79.6	78.9
1600	64.4	65.3	63.4	65.2	64.2	64.5	62.7	66.2	67.8	69.8	71.6	72.5	74.8	76.2	76.5	76.5	78.2	76.3	75.7
2000	60.8	61.7	59.8	61.6	60.6	60.9	58.9	62.0	63.7	65.7	67.5	68.4	70.7	72.4	72.4	72.4	74.0	72.2	71.6
2500	56.7	57.8	55.7	57.5	56.5	56.9	54.6	57.2	59.0	61.1	62.9	63.8	65.1	67.8	67.8	67.8	69.2	67.6	67.0
3150	52.1	53.4	51.1	53.0	51.8	52.1	49.4	51.2	53.7	55.8	57.6	58.5	61.0	62.7	62.7	62.7	63.9	62.5	61.8
4000	46.2	47.9	44.8	47.3	45.8	46.2	43.0	44.8	46.2	48.9	50.9	52.5	55.2	56.0	56.0	56.6	57.7	56.3	55.7
5000	39.3	41.7	37.9	40.2	38.6	39.4	35.7	37.5	41.9	43.4	45.0	46.2	49.0	50.3	50.3	50.3	50.7	49.4	49.3
6300	32.6	35.2	30.8	34.2	32.1	33.1	28.5	29.1	34.3	35.8	38.0	39.4	42.2	43.2	43.2	43.2	42.7	43.0	42.9
8000	24.8	28.7	21.4	25.9	23.5	26.8	20.6	21.5	27.3	27.2	30.1	32.5	36.6	37.4	37.4	37.4	37.1	37.6	37.2
10000	13.7	16.3	12.1	16.0	9.2	16.9	12.7	10.1	18.4	16.9	18.3	22.1	27.4	29.1	29.1	29.1	29.6	28.5	28.3
12500	2.6	4.0	2.7	6.0		7.0	4.8		8.9	8.6	8.5	8.4	14.5	16.3	16.3	16.3	18.7	19.4	18.3
16000													1.6	3.5	3.5	3.5	9.2	10.2	8.3
20000																		1.1	
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 05
AIRCRAFT CODE 708
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	88.8	89.7	87.1	89.6	89.3	90.4	87.9	92.0	92.0	94.0	90.2	96.8	99.6	99.8	99.8	99.8	101.8	99.7	99.2
250	86.5	87.5	84.6	87.3	86.7	87.9	85.4	90.2	90.3	92.4	94.1	94.7	97.5	97.7	97.7	97.7	99.7	97.6	97.1
315	84.2	85.2	82.3	85.0	84.4	85.3	82.9	87.6	87.8	90.2	91.7	92.5	95.4	95.6	95.6	95.6	97.6	95.4	95.0
400	81.9	82.9	79.9	82.7	82.0	82.7	80.3	85.0	85.4	87.9	89.3	90.1	93.2	93.2	93.5	93.5	95.5	93.3	92.8
500	79.5	80.4	77.5	80.2	79.6	80.1	77.7	82.3	82.8	85.5	86.9	87.8	90.8	91.2	91.2	91.2	93.3	91.0	90.4
630	76.9	77.9	75.0	77.7	77.1	77.4	75.1	79.6	80.2	82.9	84.3	85.3	88.4	88.6	88.6	88.6	91.0	88.4	87.7
800	74.3	75.3	72.4	75.1	74.5	74.6	72.4	76.7	77.0	80.1	81.5	82.5	85.8	85.8	85.8	85.8	88.4	85.5	84.9
1000	71.6	72.6	69.6	72.4	71.7	71.8	69.5	73.8	74.6	77.0	78.4	79.3	82.7	82.9	82.9	82.9	85.5	82.6	82.0
1250	68.6	69.7	66.7	69.4	68.8	68.8	66.5	70.8	71.4	73.6	74.9	75.9	79.2	79.8	79.8	79.8	82.5	79.5	78.9
1600	65.4	66.5	63.4	66.2	65.5	65.6	62.7	67.5	67.8	69.8	71.6	72.5	76.5	76.5	76.5	76.5	79.2	76.3	75.7
2000	61.8	62.9	59.8	62.6	61.9	62.0	58.9	63.3	63.7	65.7	67.5	68.4	71.4	72.4	72.4	72.4	75.0	72.2	71.6
2500	57.7	59.1	55.7	58.6	57.8	57.9	54.6	58.5	59.0	61.1	62.9	63.8	65.9	67.6	67.8	67.8	70.3	67.6	67.0
3150	53.2	54.6	51.1	54.0	53.1	53.2	49.4	52.5	53.7	55.8	57.6	58.5	61.7	62.7	62.7	62.7	65.0	62.5	61.8
4000	47.0	48.9	44.8	48.1	46.8	47.0	43.0	45.9	48.2	49.9	50.9	52.5	55.8	56.5	56.6	56.6	58.5	56.3	55.7
5000	39.9	42.4	37.9	40.8	39.3	40.1	35.7	38.3	41.9	43.4	45.0	46.2	48.5	50.3	50.3	50.3	51.4	49.4	49.3
6300	33.0	35.7	30.8	34.7	32.6	33.5	28.5	29.7	34.3	35.8	38.0	39.4	42.5	43.2	43.2	43.2	43.1	43.0	42.9
8000	25.0	28.9	21.4	26.1	23.8	27.0	20.6	21.8	27.3	27.2	30.1	32.5	36.7	37.4	37.4	37.4	37.3	37.6	37.2
10000	13.7	16.3	12.1	16.0	9.2	10.9	12.7	10.1	18.1	16.9	18.3	22.1	27.4	29.1	29.1	29.1	29.6	28.5	28.3
12500	2.6	4.0	2.7	6.0		7.0	4.8		8.9	6.6	6.5	8.4	14.5	15.3	15.3	16.3	18.7	19.4	18.3
16000													1.6	3.5	3.5	3.5	9.2	10.2	8.3
20000																		1.1	
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 05
AIRCRAFT CODE 70a
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE F1

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	73.9	75.4	72.8	74.6	73.5	74.0	71.8	72.7	75.3	77.3	78.6	79.4	81.3	81.7	81.7	81.7	81.3	81.1	81.0
250	71.8	73.3	70.7	72.5	71.4	71.9	69.7	70.7	73.2	75.2	76.6	77.3	79.3	79.5	79.6	79.6	79.2	79.0	78.9
315	69.7	71.2	68.6	70.4	69.3	69.8	67.6	68.6	71.1	73.1	74.5	75.2	77.2	77.5	77.5	77.5	77.2	77.0	76.9
400	67.6	69.0	66.4	68.3	67.1	67.7	65.5	66.5	69.0	71.0	72.4	73.1	75.1	75.4	75.4	75.4	75.1	74.8	74.7
500	65.4	66.8	64.2	66.1	64.9	65.5	63.3	64.3	66.8	68.8	70.2	70.9	72.9	73.2	73.2	73.2	72.9	72.6	72.5
630	63.1	64.5	62.0	63.8	62.7	63.3	61.1	62.1	64.6	66.5	67.9	68.6	70.7	71.0	71.0	71.0	70.7	70.4	70.3
800	60.8	62.2	59.6	61.4	60.4	61.0	58.8	59.9	62.3	64.2	65.5	66.3	68.3	68.5	68.6	68.6	68.4	68.0	67.9
1000	58.3	59.7	57.2	59.0	58.0	58.6	56.4	57.5	59.9	61.7	62.9	63.7	65.7	66.2	66.2	66.2	66.0	65.6	65.5
1250	55.6	57.2	54.6	56.5	55.4	56.1	53.9	55.0	57.3	58.9	60.2	61.0	63.0	63.5	63.5	63.5	63.4	63.0	62.9
1600	53.1	54.5	51.9	53.8	52.7	53.5	51.1	52.3	54.6	56.0	57.2	58.0	60.0	60.7	60.7	60.7	60.6	60.3	60.2
2000	50.2	51.7	49.1	50.9	49.9	50.7	48.2	49.3	51.6	52.8	54.0	54.9	56.8	57.6	57.6	57.6	57.4	57.3	57.2
2500	47.2	48.7	46.0	47.9	46.8	47.8	45.0	46.1	48.5	49.4	50.6	51.4	53.4	54.2	54.2	54.2	53.9	54.1	54.0
3150	43.9	45.4	42.6	44.5	43.4	44.5	41.7	42.6	45.1	45.8	46.8	47.6	49.6	50.5	50.6	50.6	50.1	50.6	50.5
4000	40.2	41.7	38.9	40.8	39.8	41.0	38.0	38.7	41.4	41.8	42.8	43.5	45.6	46.5	46.6	46.6	46.0	46.7	46.7
5000	36.1	37.6	34.8	36.8	35.7	36.9	33.9	34.6	37.4	37.6	38.6	39.2	41.3	42.4	42.4	42.4	41.6	42.6	42.5
6300	31.7	33.1	30.3	32.3	31.3	32.6	29.5	30.1	33.0	33.2	34.1	34.7	36.8	37.9	37.9	37.9	37.1	38.2	38.1
8000	27.4	28.6	26.0	28.0	26.9	28.5	25.4	26.4	29.1	29.3	30.4	30.9	33.0	34.0	34.0	34.0	33.6	34.3	34.2
10000	22.9	23.8	21.3	23.5	22.4	24.2	21.1	22.5	25.0	25.3	26.6	27.1	29.1	30.1	30.1	30.1	30.1	30.2	30.1
12500	18.2	18.6	16.5	18.8	17.6	19.6	16.7	18.7	20.8	21.3	22.8	23.3	25.3	26.2	26.2	26.2	26.8	26.2	25.9
16000	13.3	13.3	11.7	13.9	13.0	14.9	12.5	15.0	16.6	17.5	19.2	19.8	21.7	22.6	22.6	22.6	23.7	22.3	22.0
20000	8.6	8.0	7.3	9.2	8.6	10.4	8.5	11.6	12.7	13.9	15.8	16.6	18.4	19.3	19.3	19.3	20.9	18.8	18.4
25000	4.1	2.9	3.3	4.9	4.8	6.4	5.1	8.5	9.2	10.6	12.7	13.4	15.4	16.3	16.3	16.3	18.2	15.6	15.2

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 05
AIRCRAFT CODE 705
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE G1

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	74.9	76.7	72.8	75.7	74.8	75.1	71.8	74.0	75.3	77.3	78.6	79.4	82.1	81.7	81.7	81.7	82.3	81.1	81.0
250	72.8	74.5	70.7	73.6	72.7	73.0	69.7	72.0	73.2	75.2	76.6	77.3	80.0	79.5	79.6	79.6	80.3	79.0	78.9
315	70.7	72.4	68.6	71.5	70.6	70.9	67.6	69.9	71.1	73.1	74.5	75.2	77.9	77.5	77.5	77.5	78.2	77.0	76.9
400	68.6	70.2	66.4	69.3	68.5	68.7	65.5	67.8	69.0	71.0	72.4	73.1	75.5	75.4	75.4	75.4	76.2	74.8	74.7
500	66.4	68.0	64.2	67.1	66.3	66.5	63.3	65.6	66.8	68.8	70.2	70.3	73.7	73.2	73.2	73.2	74.0	72.6	72.5
630	64.1	65.7	62.0	64.8	64.0	64.3	61.1	63.4	64.6	66.5	67.9	68.5	71.4	71.0	71.0	71.0	71.8	70.4	70.3
800	61.8	63.4	59.6	62.5	61.7	62.1	58.8	61.2	62.3	64.2	65.5	66.3	69.0	68.5	68.6	68.6	69.5	68.0	67.9
1000	59.4	61.0	57.2	60.1	59.3	59.7	56.4	58.8	59.9	61.7	62.9	63.7	66.5	66.2	66.2	66.2	67.1	65.6	65.5
1250	56.8	58.4	54.8	57.5	56.7	57.2	53.9	56.3	57.3	59.9	60.2	61.0	63.7	63.5	63.5	63.5	64.5	63.0	62.9
1600	54.1	55.8	51.9	54.8	54.0	54.6	51.1	53.6	54.6	56.0	57.2	58.0	60.8	60.7	60.7	60.7	61.7	60.3	60.2
2000	51.3	53.0	49.1	52.0	51.2	51.8	48.2	50.6	51.6	53.3	54.0	54.9	57.6	57.5	57.5	57.6	58.5	57.3	57.2
2500	48.2	50.0	46.0	48.9	48.1	48.8	45.0	47.4	48.5	49.4	50.6	51.4	54.1	54.2	54.2	54.2	55.0	54.1	54.0
3150	44.9	46.6	42.6	45.6	44.7	45.6	41.7	43.9	45.1	45.8	46.8	47.6	50.4	50.5	50.6	50.6	51.2	50.5	50.5
4000	41.0	42.7	38.9	41.7	40.6	41.8	38.0	39.6	41.4	41.6	42.8	43.5	46.2	46.5	46.6	46.6	46.8	46.7	45.7
5000	36.7	38.4	34.8	37.4	36.5	37.6	33.9	35.3	37.4	37.6	38.6	39.2	41.8	42.4	42.4	42.4	42.3	42.5	42.5
6300	32.1	33.6	30.3	32.7	31.8	33.0	29.5	30.7	33.0	33.2	34.1	34.7	37.1	37.3	37.9	37.9	37.6	38.2	38.1
8000	27.6	28.9	26.0	28.3	27.2	28.7	25.4	26.7	29.1	29.3	30.4	30.9	33.1	34.0	34.0	34.0	33.8	34.3	34.2
10000	22.9	23.8	21.3	23.5	22.4	24.2	21.1	22.5	25.0	25.3	26.6	27.1	29.1	30.1	30.1	30.1	30.1	30.2	30.1
12500	18.2	18.6	16.5	18.8	17.6	19.6	16.7	18.7	20.8	21.3	22.6	23.3	25.3	26.2	26.2	26.2	25.8	26.2	25.9
16000	13.3	13.3	11.7	13.9	13.0	14.9	12.5	13.0	16.6	17.5	19.2	19.8	21.7	22.5	22.6	22.6	23.7	22.3	22.0
20000	8.6	8.0	7.3	9.2	8.6	10.4	8.5	11.6	12.7	13.9	15.6	16.5	18.4	19.3	19.3	19.3	20.9	18.8	18.4
25000	4.1	2.9	3.3	4.9	4.8	6.4	5.1	8.5	9.2	10.6	12.7	13.4	15.4	16.3	16.3	16.3	18.2	15.5	15.2

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

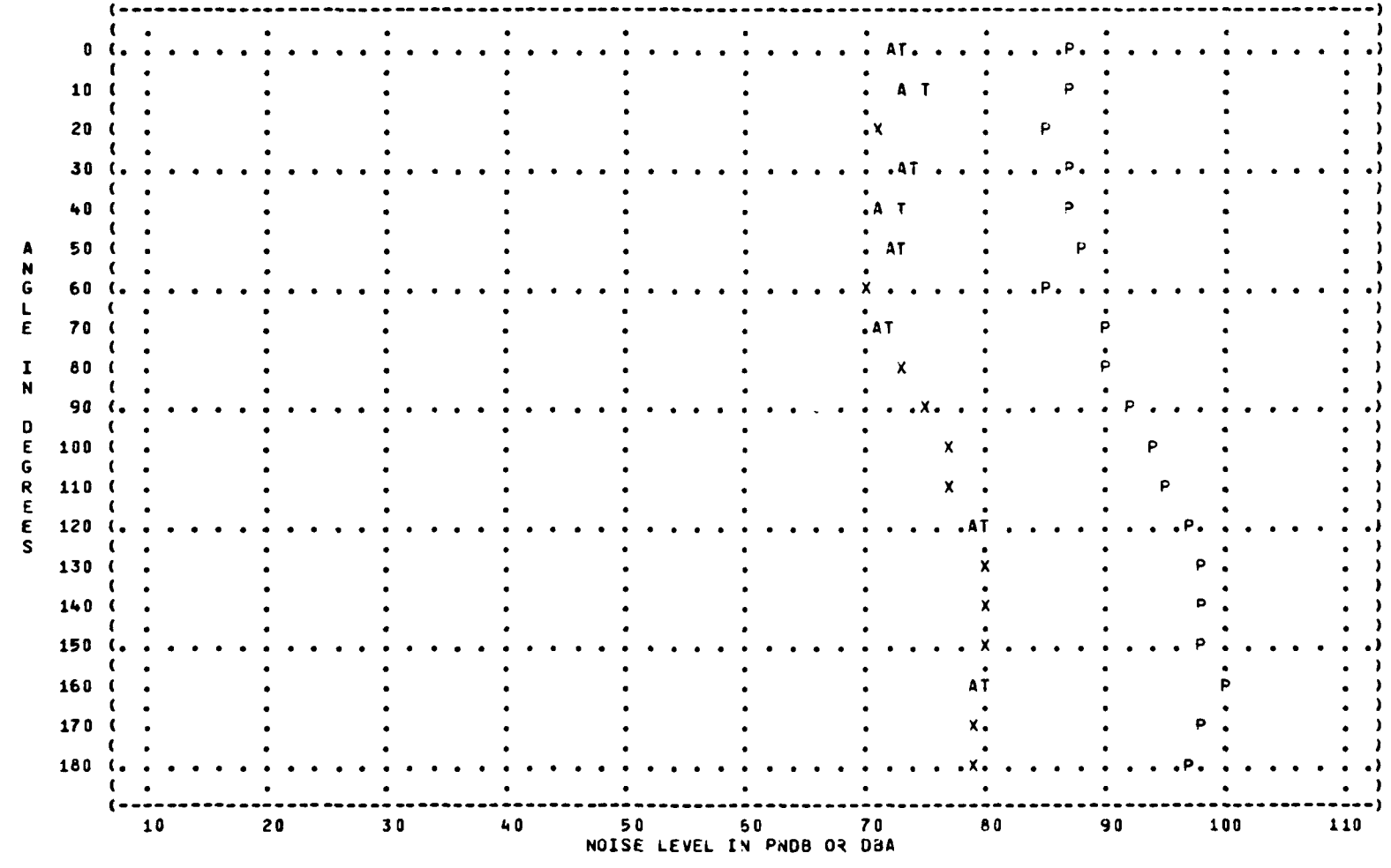
NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-708-001
RUN 05
AIRCRAFT CODE 708
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE J1

P=PNLT A=AL T=ALT



USAF HUSH HOUSE(T-38 A/C)

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(T-38 A/C)

DURING GROUND RUN-UP OPERATIONS

TEST 8F-709-001
AIRCRAFT CODE: 709
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting	Page
Engine Runup, 80% RPM	158
Military Power, 100% RPM	164
Afterburner Power, 100% RPM	170

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 01
AIRCRAFT CODE 709
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE C3

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
60% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	60	59	55	54	59	60	58	62	61	58	56	58	57	57	55	52	52	64	64
63	58	59	54	56	59	57	57	62	60	58	56	57	60	60	54	56	56	66	66
80	69	66	54	55	59	53	54	57	59	59	64	54	56	56	55	64	64	62	62
100	62	61	61	56	58	57	58	57	59	58	56	60	58	58	57	51	51	56	56
125	62	59	59	59	56	55	56	54	51	55	55	53	54	54	49	47	47	53	53
160	55	55	50	50	51	48	50	50	45	50	48	49	50	50	47	49	49	48	48
200	59	54	48	52	47	45	45	46	41	45	43	47	48	48	44	43	43	45	45
250	52	51	49	48	45	44	42	45	42	44	42	46	48	48	43	41	41	44	44
315	50	46	45	43	42	40	37	41	37	40	39	43	44	44	40	40	40	42	42
400	45	44	38	41	41	36	32	35	34	37	34	42	41	41	35	38	38	41	41
500	41	40	36	40	39	35	31	35	33	37	34	41	44	44	38	37	37	41	41
630	40	40	37	38	38	39	32	36	34	37	35	40	44	44	38	38	38	41	41
800	42	36	34	36	37	34	33	35	35	38	39	42	43	43	38	37	37	42	42
1000	39	36	35	37	39	34	31	34	34	36	36	40	42	42	39	37	37	41	41
1250	41	37	36	36	37	36	32	36	34	36	35	39	41	41	38	37	37	40	40
1600	42	40	40	38	39	38	33	35	37	37	35	38	40	40	39	36	36	43	43
2000	39	39	38	36	37	35	32	32	33	35	33	37	36	36	38	34	34	43	43
2500	35	32	32	33	35	31	26	27	28	32	31	33	33	33	36	34	34	41	41
3150	34	28	27	28	31	25	23	25	26	33	30	32	30	30	36	35	35	40	40
4000	34	29	28	28	29	26	23	27	31	34	31	32	30	30	38	36	36	42	42
5000	33	28	28	27	29	24	23	29	30	30	29	31	30	30	35	33	33	38	38
6300	34	32	30	29	30	27	26	26	33	32	27	30	28	28	35	32	32	37	37
8000	38	37	33	32	35	32	30	29	34	33	28	34	31	31	34	31	31	35	35
10000	29	25	24	25	28	20	21	21	25	29	28	31	29	29	29	25	25	29	29
OVERALL	71	69	65	64	66	64	64	67	65	65	67	65	65	65	62	66	66	69	69

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 01
AIRCRAFT CODE 709
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	72.0	69.1	66.3	66.1	65.9	63.2	62.3	63.4	62.9	65.1	65.6	66.6	66.4	66.4	66.4	66.0	66.0	70.4	70.4
250	69.6	66.6	63.8	63.7	63.5	60.6	59.6	60.9	60.3	62.6	63.1	64.2	64.0	64.0	63.9	63.5	63.5	68.0	68.0
315	67.1	64.1	61.2	61.2	61.0	58.0	56.9	58.2	57.6	60.0	60.4	61.6	61.5	61.5	61.3	60.9	60.9	65.5	65.5
400	64.5	61.5	58.5	58.5	58.3	55.3	54.2	55.4	54.7	57.3	57.7	58.9	58.8	58.3	58.6	58.1	58.1	62.9	62.9
500	61.9	58.9	55.8	55.6	55.3	52.1	51.1	52.3	51.6	54.2	54.8	56.0	55.9	55.3	55.0	55.3	55.3	60.1	60.1
630	59.1	56.0	52.7	52.3	52.0	48.7	47.5	48.9	48.2	50.9	51.8	52.9	52.6	52.5	52.2	52.3	52.3	57.0	57.0
800	56.1	52.6	49.0	48.7	48.2	45.0	43.3	45.1	44.5	47.2	48.4	49.2	49.3	49.3	48.6	48.9	48.9	53.6	53.6
1000	52.8	48.9	44.7	44.5	44.5	40.6	38.6	40.8	40.3	43.1	44.3	45.2	45.9	45.9	44.6	45.2	45.2	50.1	50.1
1250	48.4	44.1	39.8	40.0	40.4	35.5	32.0	35.2	34.9	36.1	39.0	40.7	42.3	42.3	40.2	39.6	39.8	46.2	46.2
1600	43.2	38.8	34.8	34.4	35.2	29.3	20.8	28.0	26.0	32.1	32.1	36.0	37.6	37.5	34.5	32.8	32.8	41.2	41.2
2000	37.3	33.4	27.6	26.7	28.2	17.3	10.4	13.2	13.6	22.0	21.0	29.4	32.0	32.0	27.1	25.0	25.0	35.4	35.4
2500	29.4	23.9	15.7	17.0	17.2	7.3			1.0	12.0	7.2	20.8	25.0	25.0	15.1	17.1	17.1	28.0	28.0
3150	16.6	7.8	3.7	7.3	6.2					1.9		9.1	15.4	15.4	3.2	9.2	9.2	17.5	17.5
4000	3.7												5.8	5.8		1.3	1.3	6.9	6.9
5000																			
6300																			
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 01
AIRCRAFT CODE 709
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE E3

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	73.1	70.5	67.2	67.1	66.9	64.5	63.4	64.3	64.1	65.1	66.8	67.7	67.0	67.0	67.3	66.6	66.6	70.4	70.4
250	70.6	68.0	64.7	64.7	64.4	61.9	60.7	61.7	61.5	62.6	64.3	65.2	64.6	64.5	64.8	64.1	64.1	68.0	68.0
315	68.2	65.5	62.1	62.2	61.9	59.3	58.1	59.1	58.8	60.0	61.7	62.7	62.1	62.1	62.2	61.5	61.5	65.5	65.5
400	65.6	62.9	59.5	59.5	59.2	56.6	55.4	56.3	55.8	57.3	58.9	60.0	59.4	59.4	59.5	58.7	58.7	62.9	62.9
500	63.0	60.2	56.8	56.6	56.3	53.4	52.3	53.2	52.8	54.2	56.1	57.1	56.5	56.5	56.5	55.9	55.9	60.1	60.1
630	60.2	57.4	53.7	53.3	52.9	50.0	48.6	49.8	49.4	50.9	53.0	54.0	53.1	53.1	53.2	53.0	53.0	57.0	57.0
800	57.2	54.0	50.0	49.7	49.1	46.3	44.4	46.0	45.7	47.2	49.6	50.3	49.9	49.9	49.6	49.5	49.5	53.6	53.6
1000	53.9	50.3	45.6	45.5	45.4	41.9	39.7	41.7	41.5	43.1	45.5	46.3	45.4	46.4	45.5	45.9	45.9	50.1	50.1
1250	49.5	45.5	40.7	41.0	41.3	36.8	33.2	36.1	36.1	38.1	40.2	41.8	42.9	42.9	41.1	40.4	40.4	46.2	46.2
1600	44.3	40.1	35.8	35.4	36.1	30.6	21.9	28.9	27.2	32.1	33.3	37.0	38.2	38.2	35.4	33.4	33.4	41.2	41.2
2000	38.4	34.8	28.6	27.7	29.2	18.6	11.5	14.1	14.7	22.0	22.2	30.4	32.6	32.5	28.0	25.6	25.6	35.4	35.4
2500	30.5	25.2	16.6	18.0	18.1	8.6	1.1		2.2	12.0	8.4	21.8	25.6	25.5	16.0	17.7	17.7	28.0	28.0
3150	17.7	9.2	4.7	8.3	7.1					1.9		10.2	16.0	16.0	4.1	9.6	9.8	17.5	17.5
4000	4.6												5.3	6.3		1.8	1.8	6.9	6.9
5000																			
6300																			
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 01
AIRCRAFT CODE 709
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE F3

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE	ANGLE (DEGREES)																		
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	56.6	54.7	52.5	52.2	52.2	49.7	48.6	49.7	49.0	51.0	50.6	52.6	53.0	53.8	51.9	51.0	51.0	55.5	55.5
250	54.7	52.7	50.4	50.1	50.1	47.6	46.5	47.7	46.9	48.9	48.5	50.5	51.7	51.7	49.7	48.8	48.8	53.3	53.3
315	52.6	50.6	48.3	48.0	47.9	45.5	44.4	45.6	44.7	45.8	46.4	48.4	49.6	49.5	47.5	46.7	46.7	51.1	51.1
400	50.5	48.5	46.2	45.9	45.8	43.4	42.3	43.5	42.5	44.6	44.3	46.2	47.5	47.5	45.2	44.5	44.5	48.9	48.9
500	48.3	46.2	44.0	43.7	43.6	41.2	40.1	41.3	40.2	42.3	42.1	44.0	45.3	45.3	42.9	42.2	42.2	46.6	46.6
630	46.0	43.9	41.6	41.3	41.3	38.8	37.6	39.0	37.9	40.0	39.9	41.7	43.0	43.0	40.5	39.9	39.9	44.2	44.2
800	43.6	41.5	39.2	38.8	38.8	36.4	35.3	36.6	35.5	37.6	37.6	39.4	40.7	40.7	38.0	37.6	37.6	41.8	41.8
1000	41.1	39.0	36.5	36.3	36.3	33.8	32.6	34.1	33.0	35.0	35.1	36.9	38.3	38.3	35.5	35.2	35.2	39.2	39.2
1250	38.3	36.1	33.7	33.5	33.6	31.1	29.8	31.4	30.3	32.3	32.3	34.2	35.7	35.7	32.7	32.4	32.4	36.6	36.6
1600	35.3	33.1	30.6	30.5	30.7	28.2	26.7	28.4	27.4	29.3	29.3	31.5	33.1	33.1	29.8	29.5	29.5	33.7	33.7
2000	32.0	29.8	27.4	27.4	27.7	25.1	23.4	25.3	24.3	26.2	26.1	28.6	30.3	30.3	26.8	26.4	26.4	30.6	30.6
2500	28.5	26.3	23.9	24.1	24.4	21.7	19.8	21.8	20.9	22.9	22.7	25.5	27.3	27.3	23.6	23.1	23.1	27.4	27.4
3150	24.6	22.4	20.1	20.4	20.7	18.0	15.9	18.1	17.3	19.3	19.0	22.1	24.0	24.0	20.1	19.5	19.5	23.9	23.9
4000	20.5	18.1	15.9	16.3	16.8	14.0	11.7	14.1	13.3	15.4	15.0	18.4	20.4	20.4	16.4	15.7	15.7	20.0	20.0
5000	16.2	13.7	11.5	12.1	12.6	9.8	7.4	9.8	9.1	11.2	10.9	14.3	16.4	16.4	12.3	11.5	11.5	15.9	15.9
6300	11.6	9.1	6.9	7.6	8.1	5.3	2.9	5.4	4.6	6.8	6.6	10.0	12.1	12.1	7.9	7.1	7.1	11.4	11.4
8000	7.9	5.5	3.0	3.8	4.2	1.3		1.7	.7	2.9	2.8	6.1	8.2	8.2	3.7	3.3	3.3	7.3	7.3
10000	4.1	1.8			.1							1.9	4.0	4.0				3.1	3.1
12500	.4																		
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 01
AIRCRAFT CODE 709
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE G3

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	57.9	56.1	53.4	53.2	53.1	51.0	49.7	50.6	50.2	51.0	51.8	53.6	54.3	54.3	52.8	51.6	51.6	55.5	55.5
250	55.8	54.1	51.4	51.1	51.0	48.9	47.6	48.5	48.1	48.9	49.7	51.5	52.3	52.3	50.6	49.4	49.4	53.3	53.3
315	53.7	52.0	49.3	49.0	48.9	46.8	45.5	46.5	45.9	46.8	47.6	49.4	50.2	50.2	48.4	47.3	47.3	51.1	51.1
400	51.6	49.8	47.1	46.9	46.7	44.7	43.4	44.3	43.7	44.6	45.5	47.3	48.0	48.0	46.1	45.1	45.1	48.9	48.9
500	49.4	47.6	44.9	44.7	44.5	42.5	41.2	42.2	41.4	42.3	43.4	45.1	45.9	45.9	43.8	42.8	42.8	46.6	46.6
630	47.1	45.3	42.6	42.3	42.2	40.1	38.9	39.9	39.1	40.0	41.1	42.8	43.6	43.5	41.4	40.6	40.6	44.2	44.2
800	44.7	42.9	40.1	39.9	39.8	37.7	36.4	37.5	36.7	37.6	38.8	40.4	41.3	41.3	39.0	38.2	38.2	41.8	41.8
1000	42.2	40.3	37.5	37.3	37.3	35.2	33.7	35.0	34.2	35.0	36.3	37.9	38.8	38.8	36.4	35.8	35.8	39.2	39.2
1250	39.4	37.5	34.6	34.5	34.5	32.4	30.9	32.3	31.5	32.3	33.5	35.3	36.3	36.3	33.6	33.0	33.0	36.6	36.6
1500	36.4	34.5	31.6	31.5	31.7	29.5	27.8	29.3	28.6	29.3	30.5	32.5	33.6	33.6	30.7	30.1	30.1	33.7	33.7
2000	33.1	31.2	28.4	28.5	28.6	26.4	24.5	26.2	25.4	26.2	27.3	29.7	30.8	30.8	27.7	27.0	27.0	30.6	30.6
2500	29.6	27.6	24.8	25.1	25.3	23.0	20.9	22.7	22.1	22.9	23.9	26.5	27.8	27.8	24.5	23.7	23.7	27.4	27.4
3150	25.7	23.7	21.0	21.4	21.7	19.3	17.0	19.0	18.4	19.3	20.2	23.1	24.6	24.5	21.1	20.2	20.2	23.9	23.9
4000	21.3	19.2	16.6	17.1	17.5	15.1	12.6	14.8	14.3	15.4	16.0	19.2	20.9	20.9	17.1	16.1	16.1	20.0	20.0
5000	16.8	14.5	12.1	12.7	13.1	10.6	8.1	10.4	9.8	11.2	11.7	15.0	16.8	16.8	12.6	11.9	11.9	15.9	15.9
6300	12.1	9.6	7.3	8.0	8.5	5.8	3.4	5.7	5.1	6.8	7.1	10.4	12.3	12.3	8.2	7.4	7.4	11.4	11.4
8000	8.1	5.7	3.2	4.0	4.4	1.6		1.6	.9	2.9	3.1	6.3	8.3	8.3	3.9	3.4	3.4	7.3	7.3
10000	4.1	1.8			.1							1.9	4.0	4.0				3.1	3.1
12500	.4																		
16000																			
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 01
AIRCRAFT CODE 709
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE J3

P=PNLT A=AL T=ALT

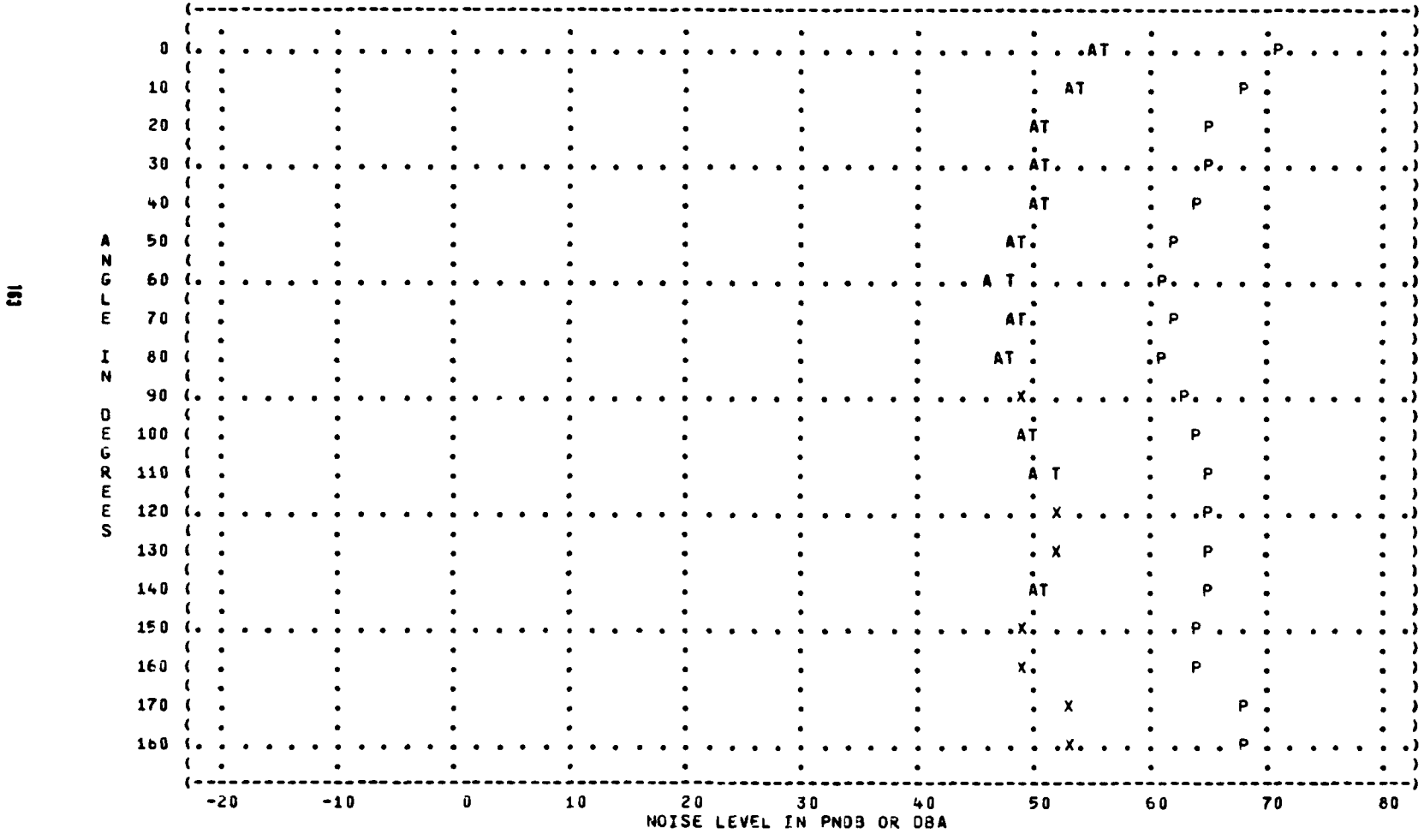


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 02
AIRCRAFT CODE 709
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE C2

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	63	57	59	57	59	61	61	65	61	61	62	62	59	63	63	64	63	65	68
63	58	56	58	58	60	61	61	64	61	61	61	61	59	60	63	59	59	62	62
80	60	58	58	55	57	57	57	61	65	65	67	60	59	59	61	54	57	56	58
100	61	62	60	58	58	56	56	60	61	61	60	59	59	56	67	57	56	55	59
125	59	61	58	57	57	55	55	55	58	58	58	53	55	54	67	54	56	52	55
160	54	49	51	48	49	47	47	50	53	53	53	49	52	53	65	51	49	46	51
200	49	48	48	47	45	44	44	45	49	49	48	47	50	55	65	49	50	48	58
250	51	49	49	47	45	42	42	42	47	47	47	47	50	55	65	47	51	55	65
315	48	45	45	41	37	36	36	37	42	42	43	46	46	49	58	46	52	61	68
400	46	43	42	38	39	38	38	36	42	42	43	46	48	52	53	55	60	67	73
500	49	48	47	42	43	42	45	41	43	43	45	46	52	53	52	59	65	67	74
630	48	46	45	41	42	46	46	42	45	45	46	47	52	54	51	59	64	67	73
800	46	44	45	41	43	44	44	42	45	46	46	48	52	54	51	58	61	67	71
1000	47	45	45	43	45	45	45	42	44	44	45	47	51	54	51	58	62	66	67
1250	50	48	49	46	49	47	47	44	45	45	44	48	50	53	52	58	60	63	66
1600	53	52	51	48	51	48	48	44	44	44	43	48	50	52	51	55	58	60	65
2000	47	49	50	45	47	44	44	41	42	42	42	47	47	50	50	53	55	58	61
2500	39	41	44	40	44	39	39	34	41	41	38	43	45	47	45	48	50	54	56
3150	35	31	33	30	32	32	32	33	42	42	36	41	41	45	44	47	48	51	54
4000	35	31	32	26	29	30	30	31	40	40	35	39	37	44	41	44	44	47	49
5000	34	32	31	27	30	31	31	29	40	40	34	39	35	41	39	43	41	44	47
6300	34	33	32	27	30	31	31	29	38	38	33	34	32	39	37	40	39	42	46
8000	38	38	35	30	34	33	33	28	38	38	33	33	31	37	34	37	34	39	44
10000	29	28	27	23	26	28	28	23	34	34	33	31	28	33	28	30	28	32	35
OVERALL	68	67	67	65	66	66	66	69	69	69	70	67	67	68	74	70	72	76	80

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 02
AIRCRAFT CODE 709
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE D2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	74.2	72.7	72.9	69.1	71.1	69.5	69.5	67.7	71.7	71.7	71.0	72.4	73.3	76.3	73.3	78.1	81.0	84.0	89.1
250	72.0	70.5	70.6	66.8	68.9	67.2	67.2	65.4	69.3	69.3	68.6	70.2	71.1	74.0	77.0	75.8	78.8	81.9	86.9
315	69.7	68.1	68.3	64.4	66.5	64.8	64.8	62.9	66.9	66.9	66.2	67.8	68.8	71.7	74.7	73.6	76.6	79.6	84.7
400	67.3	65.7	65.9	62.0	64.0	62.3	62.3	60.4	64.4	64.4	63.6	65.4	66.4	69.3	72.4	71.2	74.3	77.4	82.5
500	64.8	63.2	63.3	59.4	61.4	59.7	59.7	57.7	61.7	61.7	60.9	62.8	63.9	66.8	70.0	68.7	72.0	75.0	80.2
630	62.2	60.6	60.6	56.6	58.7	57.0	57.0	54.9	58.8	58.8	58.1	60.0	61.2	64.2	67.2	66.2	69.6	72.6	77.9
800	59.3	57.7	57.7	53.7	55.8	54.0	54.0	51.7	55.6	55.6	55.1	57.2	58.5	61.4	64.4	63.5	67.1	70.2	75.5
1000	56.3	54.6	54.7	50.6	52.7	50.8	50.8	48.0	52.0	52.0	51.8	54.1	55.8	58.5	61.3	60.8	64.6	67.6	73.0
1250	53.0	51.3	51.3	46.6	49.5	47.0	47.0	44.1	47.9	47.9	47.2	50.4	52.3	55.3	57.8	57.9	61.8	64.9	70.3
1600	49.5	47.5	47.4	42.2	45.0	41.9	41.9	38.7	43.3	43.3	42.0	46.3	48.3	51.5	53.9	54.7	58.9	62.1	67.6
2000	44.9	42.8	42.8	37.5	40.4	37.6	37.6	33.0	38.4	38.4	37.4	41.3	43.7	47.2	49.2	51.2	55.9	59.0	64.6
2500	39.6	37.7	37.4	31.4	34.9	32.2	32.2	25.2	30.7	30.7	30.4	36.1	39.1	42.5	44.0	47.4	52.5	55.8	61.5
3150	34.1	32.1	31.7	25.0	29.9	26.5	26.5	18.3	24.5	24.5	23.9	29.5	34.5	38.2	38.5	43.0	48.5	52.2	57.7
4000	27.4	23.7	24.0	14.9	20.6	15.2	15.2	11.4	11.8	11.8	13.2	21.6	28.7	32.9	31.2	38.3	43.7	48.0	53.6
5000	16.4	11.2	12.1	4.9	9.1	3.8	3.8	4.5			2.5	7.0	20.8	25.3	21.7	32.8	38.6	43.0	48.7
6300	5.4		.1										7.1	14.1	12.2	24.9	32.4	37.3	43.2
8000														3.0	2.8	16.7	26.3	31.6	38.2
10000																8.6	18.2	24.8	33.1
12500																.5	8.4	15.6	27.2
16000																		6.3	18.5
20000																			7.0
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 02
AIRCRAFT CODE 709
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	75.9	74.0	73.7	69.9	72.2	70.0	70.0	67.7	71.7	71.7	71.0	72.4	73.3	76.3	79.3	79.2	82.1	84.0	89.1
250	73.6	71.7	71.5	67.6	69.9	67.7	67.7	65.4	69.3	69.3	68.6	70.2	71.1	74.0	77.6	76.9	79.9	81.3	86.3
315	71.3	69.4	69.1	65.2	67.5	65.3	65.3	62.9	66.9	66.9	66.2	67.8	68.8	71.7	75.3	74.7	77.7	79.6	84.7
400	68.9	66.9	66.7	62.7	65.1	62.8	62.8	60.4	64.4	64.4	63.6	65.4	66.4	69.3	73.0	72.3	75.4	77.4	82.5
500	66.4	64.4	64.2	60.1	62.5	60.2	60.2	57.7	61.7	61.7	60.9	62.8	63.9	66.8	70.6	69.8	73.1	75.0	80.2
630	63.8	61.8	61.4	57.4	59.8	57.5	57.5	54.9	58.8	58.8	58.1	60.0	61.2	64.2	67.9	67.3	70.7	72.6	77.9
800	60.9	58.9	58.5	54.5	56.9	54.5	54.5	51.7	55.8	55.6	55.1	57.2	58.5	61.4	65.0	64.6	68.2	70.2	75.5
1000	57.9	55.8	55.5	51.4	53.8	51.3	51.3	48.0	52.0	52.0	51.8	54.1	55.6	58.5	61.9	61.9	65.6	67.6	73.0
1250	54.6	52.5	52.1	47.4	50.6	47.5	47.5	44.1	47.9	47.9	47.2	50.4	52.3	55.3	58.4	59.0	62.9	64.9	70.3
1500	51.1	48.7	48.3	43.0	46.0	42.5	42.5	38.7	43.3	43.3	42.0	46.3	48.3	51.5	54.5	55.8	60.0	62.1	67.6
2000	46.5	44.0	43.6	38.2	41.4	38.1	38.1	33.0	38.4	38.4	37.4	41.3	43.7	47.2	49.8	52.3	57.0	59.0	64.6
2500	41.2	38.9	38.2	32.1	36.0	32.8	32.8	25.2	30.7	30.7	30.4	36.1	39.1	42.8	44.6	48.5	53.6	55.8	61.5
3150	35.7	33.3	32.5	25.8	30.9	27.0	27.0	18.3	24.5	24.5	23.9	29.5	34.5	38.2	39.1	44.1	49.6	52.2	57.7
4000	28.7	24.7	24.6	15.5	21.4	15.6	15.6	11.4	11.8	11.8	13.2	21.6	28.7	32.9	31.7	39.2	44.5	48.0	53.6
5000	17.4	12.0	12.6	5.3	9.8	4.1	4.1	4.5			2.5	7.0	20.8	25.3	22.1	33.4	39.2	43.0	48.7
6300	6.1		.5										7.1	14.1	12.5	25.3	32.8	37.3	43.2
8000														3.0	2.9	17.0	26.5	31.6	38.2
10000																8.6	18.2	24.8	33.1
12500																.5	8.4	15.6	27.2
16000																		6.3	18.5
20000																			7.0
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 02
AIRCRAFT CODE 709
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE F2

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	61.0	59.9	60.0	56.5	58.6	56.9	56.9	54.5	57.5	57.5	56.7	59.3	61.6	64.3	65.5	67.9	71.5	75.3	79.6
250	58.8	57.8	57.9	54.4	56.5	54.8	54.8	52.4	55.3	55.3	54.6	57.1	59.5	62.2	63.4	65.8	69.5	73.2	77.6
315	56.7	55.6	55.8	52.2	54.3	52.6	52.6	50.3	53.2	53.2	52.5	55.0	57.4	60.1	61.4	63.7	67.4	71.1	75.5
400	54.5	53.4	53.6	50.1	52.2	50.5	50.5	48.1	50.9	50.9	50.3	52.8	55.3	57.3	59.2	61.6	65.2	69.0	73.4
500	52.3	51.2	51.4	47.9	49.9	48.3	48.3	45.9	48.7	48.7	48.2	50.6	53.1	55.7	57.0	59.4	63.1	66.8	71.3
630	50.1	48.9	49.1	45.5	47.6	46.0	46.0	43.7	46.4	46.4	45.9	48.3	50.8	53.5	54.6	57.2	60.9	64.7	69.1
800	47.7	46.5	46.7	43.2	45.2	43.6	43.6	41.4	43.9	43.9	43.6	45.9	48.5	51.1	52.2	54.9	58.7	62.4	66.9
1000	45.3	44.1	44.2	40.7	42.7	41.2	41.2	38.9	41.4	41.4	41.2	43.5	46.2	48.8	49.6	52.6	56.4	60.2	64.7
1250	42.7	41.5	41.6	38.1	40.1	38.7	38.7	36.3	38.8	38.8	38.6	40.9	43.7	46.3	46.8	50.2	54.0	57.8	62.4
1600	40.0	38.7	38.9	35.3	37.4	36.0	36.0	33.6	36.0	36.0	35.8	38.3	41.1	43.7	43.9	47.7	51.6	55.4	60.0
2000	37.2	35.8	36.0	32.4	34.5	33.2	33.2	30.6	33.0	33.0	33.0	35.5	38.5	41.0	40.8	45.1	49.1	52.9	57.5
2500	34.1	32.7	32.8	29.2	31.3	30.3	30.3	27.5	29.9	29.9	29.9	32.4	35.6	38.1	37.5	42.3	46.3	50.1	54.7
3150	30.8	29.3	29.4	25.8	27.9	27.0	27.0	24.1	26.6	26.6	26.6	29.2	32.5	35.0	33.9	39.3	43.3	47.0	51.6
4000	27.0	25.5	25.7	22.0	24.2	23.4	23.4	20.4	22.9	22.9	22.9	25.6	29.0	31.5	30.0	35.8	39.8	43.6	48.1
5000	22.9	21.3	21.5	17.9	20.1	19.4	19.4	16.4	18.9	18.9	18.9	21.5	25.1	27.6	25.8	31.9	35.8	39.7	44.1
6300	18.4	16.7	16.9	13.4	15.5	15.0	15.0	12.0	14.6	14.6	14.6	17.2	20.8	23.3	21.3	27.6	31.5	35.4	39.7
8000	13.9	12.3	12.4	8.8	10.8	10.6	10.6	7.8	10.5	10.5	10.7	12.9	16.7	19.2	17.4	23.6	27.6	31.5	36.0
10000	9.2	7.5	7.6	3.8	5.7	6.0	6.0	3.4	6.2	6.2	6.5	8.3	12.3	14.7	13.2	19.2	23.4	27.2	31.9
12500	4.3	2.6	2.6		.3	1.0	1.0		1.6	1.6	2.0	3.3	7.4	9.8	8.8	14.3	18.7	22.5	27.5
16000													2.1	4.4	4.3	9.0	13.6	17.2	22.5
20000																3.1	7.9	11.4	16.9
25000																	1.6	4.9	10.7

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 02
AIRCRAFT CODE 709
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	62.6	61.1	60.9	57.3	59.7	57.4	57.4	54.5	57.5	57.5	56.7	59.3	61.6	64.3	66.1	69.0	72.6	75.3	79.6
250	60.5	59.0	58.8	55.2	57.5	55.3	55.3	52.4	55.3	55.3	54.6	57.1	59.5	62.2	64.0	66.9	70.5	73.2	77.6
315	58.3	56.8	56.6	53.0	55.4	53.1	53.1	50.3	53.2	53.2	52.5	55.0	57.4	60.1	62.0	64.8	68.4	71.1	75.5
400	56.2	54.7	54.4	50.9	53.2	51.0	51.0	48.1	50.9	50.9	50.3	52.8	55.3	57.9	59.8	62.7	66.3	69.0	73.4
500	54.0	52.4	52.2	48.6	51.0	48.8	48.8	45.9	48.7	48.7	48.2	50.6	53.1	55.7	57.6	60.5	64.2	66.8	71.3
630	51.7	50.1	49.9	46.3	48.7	46.5	46.5	43.7	46.4	46.4	45.9	48.3	50.8	53.5	55.2	58.3	62.0	64.7	69.1
800	49.3	47.8	47.5	43.9	46.3	44.2	44.2	41.4	43.9	43.9	43.6	45.9	48.5	51.1	52.8	56.0	59.8	62.4	66.9
1000	46.9	45.3	45.0	41.4	43.8	41.7	41.7	38.9	41.4	41.4	41.2	43.5	46.2	48.8	50.2	53.7	57.5	60.2	64.7
1250	44.3	42.7	42.4	38.8	41.2	39.2	39.2	36.3	38.8	38.8	38.6	40.9	43.7	46.3	47.4	51.3	55.1	57.8	62.4
1600	41.6	39.9	39.7	36.1	38.4	36.6	36.6	33.8	36.0	36.0	35.8	38.3	41.1	43.7	44.5	48.8	52.7	55.4	60.0
2000	38.8	37.1	36.8	33.1	35.5	33.8	33.8	30.6	33.0	33.0	33.0	35.5	38.5	41.0	41.4	46.2	50.2	52.9	57.5
2500	35.7	33.9	33.7	30.0	32.4	30.8	30.8	27.5	29.9	29.9	29.9	32.4	35.8	38.1	38.1	43.4	47.4	50.1	54.7
3150	32.4	30.5	30.3	26.6	29.0	27.5	27.5	24.1	26.8	26.6	26.6	29.2	32.5	35.0	34.5	40.4	44.3	47.0	51.6
4000	28.3	26.5	26.3	22.7	25.1	23.8	23.8	20.4	22.9	22.9	22.9	25.6	29.0	31.5	30.4	36.7	40.6	43.6	48.1
5000	23.9	22.1	22.0	18.4	20.7	19.7	19.7	16.4	18.9	18.9	18.9	21.5	25.1	27.6	26.1	32.6	36.4	39.7	44.1
6300	19.0	17.2	17.2	13.7	15.9	15.2	15.2	12.0	14.6	14.6	14.6	17.2	20.8	23.3	21.6	28.1	31.9	35.4	39.7
8000	14.3	12.5	12.6	8.9	11.0	10.7	10.7	7.8	10.5	10.5	10.7	12.9	16.7	19.2	17.5	23.8	27.8	31.5	36.0
10000	9.2	7.5	7.6	3.8	5.7	6.0	6.0	3.4	6.2	6.2	6.5	8.3	12.3	14.7	13.2	19.2	23.4	27.2	31.9
12500	4.3	2.6	2.6		.3	1.0	1.0		1.6	1.6	2.0	3.3	7.4	9.8	8.8	14.3	18.7	22.5	27.5
16000													2.1	4.4	4.3	9.0	13.6	17.2	22.5
20000																3.1	7.9	11.4	16.9
25000																	1.6	4.9	10.7

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 02
AIRCRAFT CODE 709
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE J2

P=PNLT A=AL T=ALT

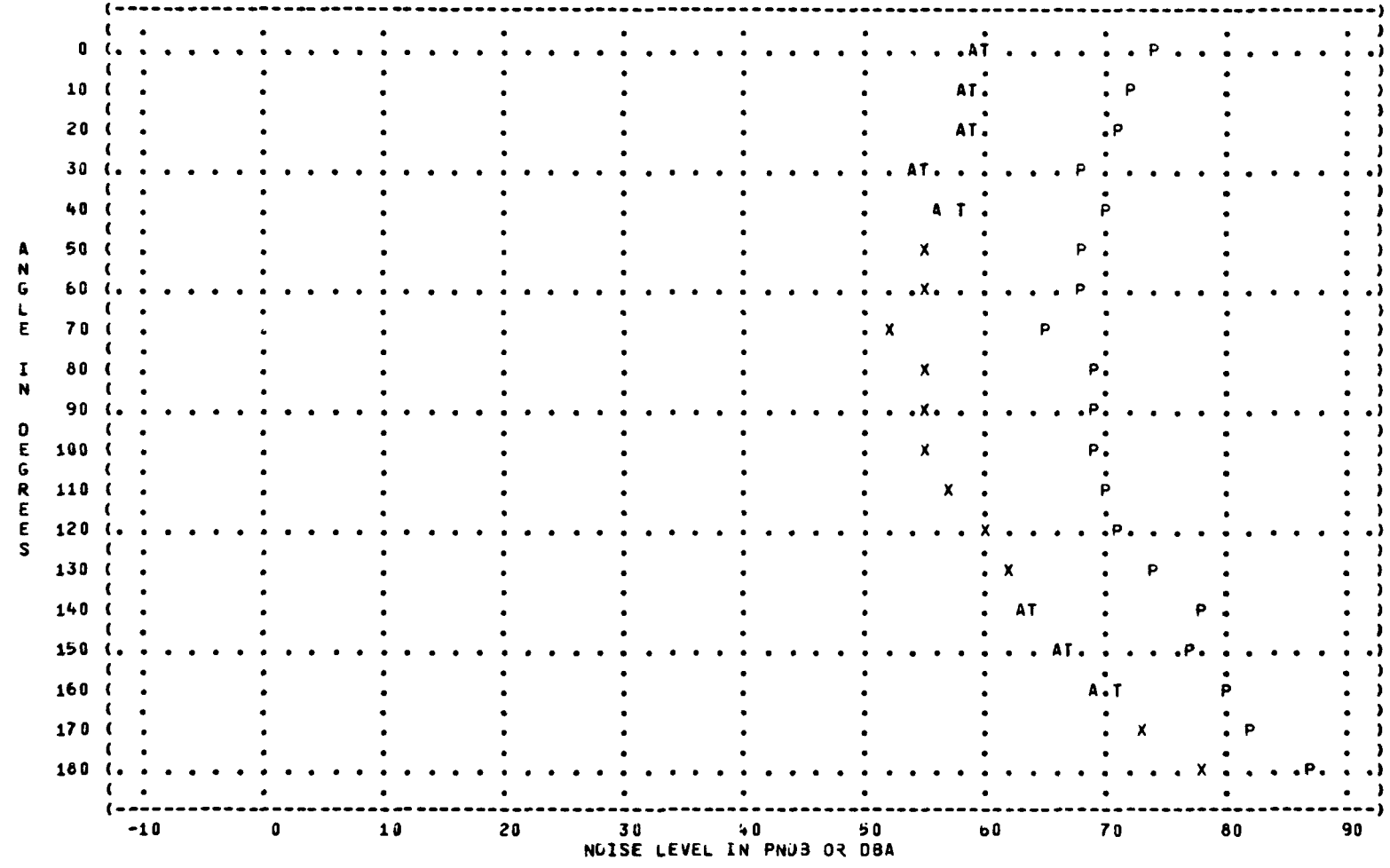


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 03
AIRCRAFT CODE 709
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE C1

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	66	62	65	62	65	65	67	69	69	64	64	68	68	71	70	74	75	68	76
63	61	60	64	63	61	64	63	67	66	63	63	64	64	67	63	67	69	64	69
80	62	59	62	60	62	62	61	65	64	62	62	63	63	67	60	65	63	62	64
100	65	59	61	57	60	58	59	61	60	63	63	66	66	62	59	59	58	60	62
125	66	60	59	57	63	60	59	61	61	66	66	63	63	59	57	58	56	56	62
160	60	53	54	53	53	54	53	54	52	60	60	60	60	58	56	56	56	58	60
200	54	50	51	49	49	50	48	50	46	55	55	58	58	60	58	55	58	58	61
250	57	52	52	52	50	48	47	46	46	54	54	57	57	62	61	56	60	67	64
315	53	48	47	43	43	39	41	43	41	53	53	51	51	56	54	51	58	70	68
400	49	47	46	43	43	45	38	42	40	53	53	52	52	57	54	55	60	70	72
500	53	52	51	47	51	49	46	46	42	53	53	54	54	59	54	60	62	70	75
630	50	49	49	44	45	46	43	46	43	53	53	54	54	58	55	62	63	69	74
800	48	46	46	42	45	45	44	46	42	52	52	54	54	56	53	59	62	66	73
1000	48	46	47	45	46	46	43	44	42	50	50	54	54	59	54	59	61	62	69
1250	51	50	51	48	50	48	46	45	44	50	50	54	54	57	55	59	59	58	65
1600	54	53	53	50	52	49	47	46	45	49	49	54	54	60	55	56	56	57	63
2000	50	49	52	48	50	46	43	43	44	46	46	52	52	57	53	54	55	54	61
2500	40	42	46	45	47	42	37	37	39	44	44	50	50	53	49	50	52	50	56
3150	34	33	34	33	36	34	33	35	33	44	44	45	45	51	48	48	50	47	54
4000	33	31	35	30	32	31	30	34	39	42	42	41	41	46	45	44	47	45	50
5000	35	35	37	30	31	31	30	33	38	42	42	39	39	42	43	42	46	43	47
6300	35	35	33	30	31	30	29	31	37	41	41	36	36	40	39	39	45	41	43
8000	38	37	35	31	34	31	31	31	36	40	40	37	37	37	36	36	41	41	40
10000	29	29	30	26	30	26	24	25	33	35	35	29	29	33	29	29	39	34	32
OVERALL	72	68	70	68	70	70	70	73	73	72	72	73	73	75	73	76	77	78	82

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 03
AIRCRAFT CODE 709
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE D1

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																	
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	76.4	74.4	75.2	72.1	73.9	71.9	70.1	71.1	71.0	76.7	76.7	78.3	78.3	82.2	78.8	80.2	82.3	85.8	90.1
250	74.1	72.2	73.0	69.9	71.7	69.7	67.8	68.8	68.7	74.3	74.3	76.0	76.0	80.0	76.5	77.9	80.1	83.6	88.0
315	71.8	69.9	70.7	67.5	69.4	67.4	65.5	66.5	66.3	71.9	71.9	73.7	73.7	77.7	74.3	75.7	77.8	81.5	85.8
400	69.5	67.5	68.3	65.1	67.0	65.0	63.0	64.1	63.8	69.5	69.5	71.4	71.4	75.4	71.9	73.3	75.5	79.2	83.6
500	67.0	65.0	65.8	62.5	64.4	62.4	60.4	61.5	61.2	67.0	67.0	69.0	69.0	73.0	69.5	71.0	73.1	76.9	81.3
630	64.4	62.4	63.1	59.7	61.8	59.6	57.6	58.7	58.4	64.2	64.2	66.4	66.4	70.5	66.9	68.5	70.7	74.6	79.0
800	61.7	59.6	60.2	56.9	59.0	56.8	54.7	55.8	55.2	61.2	61.2	63.7	63.7	67.9	64.2	65.9	68.1	72.2	76.6
1000	58.7	56.6	57.3	53.9	55.9	53.7	51.4	52.3	51.7	58.0	58.0	60.8	60.8	65.1	61.4	63.2	65.4	69.6	74.1
1250	55.4	53.3	54.0	50.5	52.8	50.2	47.6	48.6	47.8	54.5	54.5	57.6	57.6	62.1	58.3	60.3	62.5	67.0	71.5
1600	51.8	49.8	50.4	46.3	48.9	45.9	43.2	44.3	43.5	50.7	50.7	54.2	54.2	58.9	54.8	57.2	59.5	64.2	68.7
2000	47.6	45.4	45.7	41.4	44.3	41.2	38.0	39.5	37.6	46.8	46.8	49.9	49.9	55.3	50.8	53.9	56.2	61.2	65.6
2500	42.8	40.4	40.1	35.9	38.6	35.4	31.3	31.8	30.1	42.2	42.2	45.1	45.1	50.9	45.7	49.7	52.2	57.7	62.6
3150	37.0	34.7	34.5	30.0	33.0	29.7	24.4	24.1	21.5	36.6	36.6	39.4	39.4	45.9	40.6	45.4	48.0	53.7	58.7
4000	29.8	28.0	28.1	21.0	26.7	21.7	12.3	14.9	7.1	29.7	29.7	33.4	33.4	40.4	34.5	40.5	43.3	49.4	54.6
5000	20.0	18.0	18.2	8.1	16.0	7.0	.3	5.7		21.1	21.1	25.1	25.1	33.8	26.7	35.0	37.6	44.2	49.6
6300	10.2	8.0	8.4		5.3					6.9	6.9	14.5	14.5	25.5	17.5	28.3	31.3	38.2	44.5
8000	.5											3.8	3.8	16.4	8.3	20.5	24.5	33.5	39.6
10000														7.2		9.6	15.8	27.9	34.5
12500																	7.2	21.5	29.1
16000																		10.2	20.7
20000																			9.1
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 03
AIRCRAFT CODE 709
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.6	76.0	76.3	73.4	76.4	73.3	71.8	71.8	71.8	77.5	77.5	79.1	79.1	82.2	79.6	80.2	82.3	86.4	90.1
250	75.3	73.7	74.1	71.1	74.1	71.0	69.5	69.5	69.5	75.1	75.1	76.9	76.9	80.0	77.4	77.9	80.1	84.3	88.0
315	73.1	71.4	71.8	68.8	71.8	68.7	67.2	67.1	67.1	72.7	72.7	74.6	74.6	77.7	75.1	75.7	77.8	82.1	85.8
400	70.7	69.0	69.4	66.3	69.4	66.3	64.7	64.7	64.6	70.3	70.3	72.2	72.2	75.4	72.8	73.3	75.5	79.9	83.6
500	68.2	66.5	66.9	63.8	66.9	63.7	62.1	62.2	62.0	67.8	67.8	69.8	69.8	73.0	70.4	71.0	73.1	77.6	81.3
630	65.6	63.9	64.2	61.0	64.2	61.0	59.3	59.4	59.2	65.0	65.0	67.3	67.3	70.5	67.6	68.5	70.7	75.2	79.0
800	62.9	61.1	61.3	58.1	61.4	58.1	56.4	56.4	56.0	62.0	62.0	64.6	64.6	67.9	65.0	65.9	68.1	72.8	76.6
1000	59.9	58.1	58.3	55.1	58.4	55.0	53.1	53.0	52.5	58.8	58.8	61.7	61.7	65.1	62.2	63.2	65.4	70.3	74.1
1250	56.6	54.8	55.1	51.8	55.2	51.6	49.3	49.3	48.8	55.3	55.3	58.4	58.4	62.1	59.1	60.3	62.5	67.6	71.5
1600	53.1	51.3	51.5	47.6	51.4	47.3	44.9	45.0	44.3	51.5	51.5	55.0	55.0	58.9	55.7	57.2	59.5	64.8	68.7
2000	48.8	47.0	46.8	42.6	46.8	42.6	39.7	40.1	38.4	47.6	47.6	50.7	50.7	55.3	51.7	53.9	56.2	61.9	65.8
2500	44.0	41.9	41.2	37.2	41.0	36.7	33.0	32.4	30.9	43.0	43.0	45.9	45.9	50.3	46.6	49.7	52.2	58.3	62.6
3150	38.2	36.2	35.7	31.2	35.5	31.0	26.1	24.7	22.3	37.4	37.4	40.2	40.2	45.3	41.4	45.4	48.0	54.3	58.7
4000	30.8	29.2	29.0	22.0	28.7	22.8	13.7	15.4	7.8	30.4	30.4	34.1	34.1	40.4	35.2	40.5	43.3	49.9	54.6
5000	20.8	18.9	18.9	8.8	17.5	7.8	1.3	6.0		21.5	21.5	25.6	25.6	33.8	27.2	35.0	37.6	44.5	49.8
6300	10.7	8.6	8.9		6.3					7.2	7.2	14.8	14.8	25.5	17.9	28.3	31.3	38.5	44.5
8000	.7											4.0	4.0	16.4	8.5	20.5	24.5	33.6	39.6
10000														7.2		9.6	15.8	27.9	34.5
12500																	7.2	21.5	29.1
16000																		10.2	20.7
20000																			9.1
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 03
AIRCRAFT CODE 709
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE F1

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	63.1	61.5	61.9	59.2	61.1	58.8	56.7	57.6	56.7	63.0	63.0	65.3	65.3	69.5	66.0	69.1	71.2	75.8	80.6
250	61.0	59.4	59.8	57.0	58.9	56.7	54.6	55.5	54.6	60.9	60.9	63.2	63.2	67.5	63.9	67.1	69.1	73.7	78.5
315	58.9	57.2	57.7	54.9	56.8	54.6	52.5	53.4	52.4	58.7	58.7	61.1	61.1	65.4	61.8	65.0	67.0	71.6	76.5
400	56.8	55.1	55.5	52.7	54.6	52.5	50.4	51.3	50.3	56.6	56.6	59.0	59.0	63.2	59.6	62.8	64.8	69.6	74.4
500	54.6	52.9	53.3	50.5	52.4	50.3	48.2	49.1	48.0	54.4	54.4	56.7	56.7	61.0	57.4	60.7	62.7	67.5	72.3
630	52.3	50.6	51.0	48.2	50.1	48.0	45.9	46.8	45.7	52.1	52.1	54.5	54.5	58.7	55.1	58.4	60.5	65.3	70.1
800	49.9	48.2	48.5	45.8	47.7	45.6	43.5	44.5	43.3	49.8	49.8	52.1	52.1	56.4	52.7	56.2	58.2	63.1	67.9
1000	47.4	45.8	46.1	43.3	45.2	43.2	41.1	42.1	40.8	47.3	47.3	49.7	49.7	54.0	50.3	53.8	55.9	60.9	65.7
1250	44.8	43.2	43.5	40.7	42.6	40.6	38.5	39.5	38.1	44.8	44.8	47.1	47.1	51.5	47.7	51.4	53.5	58.6	63.4
1600	42.1	40.6	40.8	37.9	39.9	37.9	35.7	36.8	35.3	42.1	42.1	44.5	44.5	48.8	45.0	48.9	51.0	56.2	61.0
2000	39.2	37.7	37.9	35.0	37.0	35.1	32.8	33.9	32.2	39.4	39.4	41.7	41.7	46.1	42.2	46.3	48.4	53.7	58.5
2500	36.1	34.7	34.8	31.8	33.9	32.1	29.7	30.8	28.9	36.4	36.4	38.7	38.7	43.1	39.2	43.6	45.6	50.8	55.8
3150	32.6	31.3	31.4	28.3	30.4	28.7	26.3	27.4	25.4	33.1	33.1	35.4	35.4	39.8	35.9	40.5	42.6	47.6	52.8
4000	28.8	27.6	27.6	24.5	26.6	25.0	22.6	23.7	21.5	29.5	29.5	31.8	31.8	36.2	32.3	37.1	39.1	44.0	49.4
5000	24.6	23.4	23.4	20.3	22.4	20.8	18.5	19.6	17.3	25.4	25.4	27.8	27.8	32.2	28.2	33.1	35.2	39.8	45.4
6300	20.1	18.8	18.8	15.7	17.9	16.4	14.0	15.2	12.8	21.1	21.1	23.4	23.4	27.8	23.8	28.8	30.9	35.4	41.1
8000	15.9	14.5	14.4	11.2	13.5	12.2	9.8	11.2	8.8	17.2	17.2	19.2	19.2	23.7	19.6	24.8	27.0	31.9	37.4
10000	11.5	10.0	9.7	6.5	8.9	7.8	5.4	7.0	4.6	13.0	13.0	14.7	14.7	19.1	15.0	20.5	22.7	27.9	33.3
12500	7.0	5.2	4.9	1.6	4.1	3.1	.8	2.7	.4	8.4	8.4	9.9	9.9	14.3	10.1	15.7	17.9	23.6	28.8
16000	2.3	.3								3.6	3.6	4.8	4.8	9.0	4.9	10.5	12.7	18.8	23.7
20000														3.5		4.8	7.0	13.5	18.1
25000																	.9	7.5	11.8

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 03
AIRCRAFT CODE 709
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	64.3	63.0	63.0	60.4	63.5	60.2	58.4	58.2	57.5	63.8	63.8	66.2	66.2	69.5	66.9	69.1	71.2	76.4	80.6
250	62.3	60.9	60.9	58.3	61.4	58.1	56.3	56.1	55.4	61.7	61.7	64.1	64.1	67.5	64.7	67.1	69.1	74.3	78.5
315	60.2	58.8	58.8	56.1	59.3	55.9	54.2	54.1	53.2	59.5	59.5	61.9	61.9	65.4	62.6	65.0	67.0	72.3	76.5
400	58.0	56.6	56.6	54.0	57.1	53.8	52.1	51.9	51.1	57.4	57.4	59.8	59.8	63.2	60.4	62.8	64.8	70.2	74.4
500	55.8	54.4	54.4	51.7	54.9	51.6	49.9	49.7	48.8	55.2	55.2	57.6	57.6	61.0	58.2	60.7	62.7	68.1	72.3
630	53.5	52.1	52.1	49.4	52.6	49.3	47.6	47.5	46.5	52.9	52.9	55.3	55.3	58.7	55.9	58.4	60.5	66.0	70.1
800	51.1	49.8	49.7	47.0	50.2	47.0	45.2	45.1	44.1	50.6	50.6	52.9	52.9	56.4	53.6	56.2	58.2	63.8	67.9
1000	48.7	47.3	47.2	44.5	47.7	44.5	42.8	42.7	41.6	48.1	48.1	50.5	50.5	54.0	51.1	53.8	55.9	61.6	65.7
1250	46.1	44.8	44.6	41.9	45.1	42.0	40.2	40.1	39.9	45.6	45.6	47.9	47.9	51.5	48.6	51.4	53.5	59.2	63.4
1500	43.3	42.1	41.9	39.1	42.3	39.3	37.4	37.4	36.1	42.9	42.9	45.3	45.3	48.8	45.9	48.9	51.0	56.8	61.0
2000	40.4	39.3	39.0	36.2	39.4	36.4	34.5	34.5	33.0	40.2	40.2	42.5	42.5	46.1	43.1	46.3	48.4	54.3	58.5
2500	37.3	36.2	35.9	33.0	36.3	33.4	31.4	31.4	29.7	37.2	37.2	39.5	39.5	43.1	40.0	43.6	45.6	51.5	55.8
3150	33.8	32.8	32.5	29.6	32.9	30.0	28.0	28.0	26.2	33.9	33.9	36.2	36.2	39.8	36.7	40.5	42.6	48.2	52.8
4000	29.8	28.8	28.5	25.5	28.6	26.0	23.9	24.2	22.2	30.1	30.1	32.4	32.4	36.2	32.9	37.1	39.1	44.5	49.4
5000	25.4	24.3	24.1	21.0	23.9	21.6	19.5	20.0	17.8	25.9	25.9	28.3	28.3	32.2	28.7	33.1	35.2	40.2	45.4
6300	20.6	19.4	19.3	16.2	18.9	16.9	14.7	15.5	13.1	21.4	21.4	23.7	23.7	27.8	24.1	28.8	30.9	35.7	41.1
8000	16.2	14.8	14.5	11.5	14.0	12.4	10.1	11.3	8.9	17.3	17.3	19.4	19.4	23.7	19.7	24.8	27.0	32.0	37.4
10000	11.5	10.0	9.7	6.5	8.9	7.8	5.4	7.0	4.6	13.0	13.0	14.7	14.7	19.1	15.0	20.5	22.7	27.9	33.3
12500	7.0	5.2	4.9	1.6	4.1	3.1	.8	2.7	.4	8.4	8.4	9.9	9.9	14.3	10.1	15.7	17.9	23.6	28.8
16000	2.3	.3								3.6	3.6	4.8	4.8	9.0	4.9	10.5	12.7	18.8	23.7
20000														3.5		4.8	7.0	13.5	18.1
25000																	.9	7.5	11.8

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

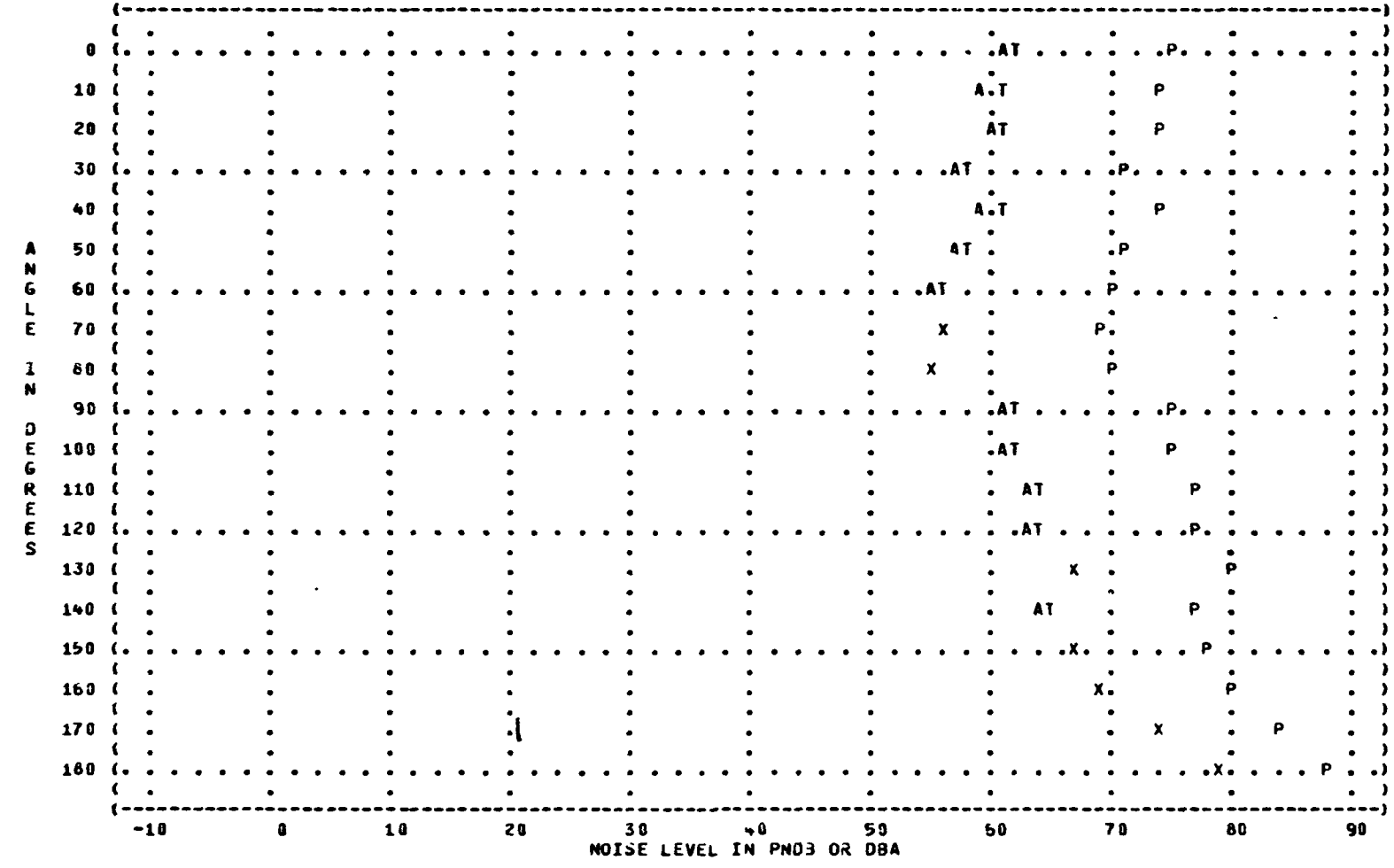
NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

[illegible] 59 F
BA[illegible]S 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-709-001
RUN 03
AIRCRAFT CODE 709
OPERATION CODE 00103
PROFILE VERSION A
28 NOV 81
PAGE J1

P=PNLT A=AL T=ALT



USAF HUSH HOUSE(TF41-A-1 ENG.) HUSH HOUSE(TF41-A-1 ENG.) HUSH HOUSE(TF41-A-1 ENG.) HUSH HOUSE(TF41-A-1 ENG.) USAF

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(TF41-A-1 ENG.)

DURING GROUND RUN-UP OPERATIONS

TEST BF-711-001
AIRCRAFT CODE: 711
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting	Page
Engine Runup, 85% RPM	177
Engine Runup, 95% RPM	183
Military Power, 99% RPM	189

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

HUSH HOUSE(TF41-A-1 ENG.) HUSH HOUSE(TF41-A-1 ENG.) HUSH HOUSE(TF41-A-1 ENG.) HUSH HOUSE(TF41-A-1 ENG.)

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-001
RUN 01
AIRCRAFT CODE 711
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE C3

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	66	66	65	64	65	66	67	70	69	65	64	65	66	68	68	68	68	68	68
63	63	65	62	63	62	65	63	69	68	63	61	64	63	64	64	64	64	64	64
80	64	64	64	61	62	61	59	66	64	65	65	64	62	61	61	61	61	61	61
100	66	65	64	66	62	63	59	63	61	65	63	62	64	61	61	61	61	61	61
125	65	62	61	64	61	61	57	62	60	63	65	62	64	61	61	61	61	61	61
160	59	58	57	56	58	55	56	56	53	58	56	54	56	54	54	54	54	54	54
200	54	53	54	51	49	48	47	47	47	54	48	50	51	51	51	51	51	51	51
250	53	55	55	53	48	47	45	46	46	49	46	47	50	49	49	49	49	49	49
315	51	51	51	50	45	42	43	44	44	42	40	43	45	42	42	42	42	42	42
400	48	46	46	49	42	40	40	40	40	39	37	42	41	38	38	38	38	38	38
500	50	48	48	48	44	45	43	44	41	36	35	40	40	37	37	37	37	37	37
630	48	47	45	47	44	45	42	44	42	37	37	40	38	36	36	36	36	36	36
800	46	45	44	45	43	43	43	42	40	38	37	40	38	36	36	36	36	36	36
1000	46	45	44	45	43	42	41	41	39	36	36	44	38	36	36	36	36	36	36
1250	51	51	47	47	47	46	44	44	40	40	37	41	39	37	37	37	37	37	37
1600	52	53	49	50	49	47	46	43	42	40	36	40	39	37	37	37	37	37	37
2000	46	49	47	47	46	44	42	41	40	38	36	41	38	37	37	37	37	37	37
2500	51	50	48	49	50	49	47	45	45	45	39	45	41	38	38	38	38	38	38
3150	43	42	40	41	41	40	38	39	41	40	33	38	36	37	37	37	37	37	37
4000	38	37	36	36	35	33	33	35	39	35	30	34	32	33	33	33	33	33	33
5000	47	48	46	44	42	38	41	40	44	40	32	33	33	33	33	33	33	33	33
6300	45	47	45	43	42	38	39	40	43	39	30	31	31	32	32	32	32	32	32
8000	45	46	42	41	41	37	42	42	45	39	29	30	32	30	30	30	30	30	30
10000	43	44	39	38	38	36	43	37	42	35	27	27	29	27	27	27	27	27	27
OVERALL	72	72	71	71	70	71	70	74	73	72	71	71	72	71	71	71	71	71	71

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-881
RUN 01
AIRCRAFT CODE 711
OPERATION CODE 88118
PROFILE VERSION A
28 NOV 81
PAGE D3

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.7	77.4	75.7	75.9	75.8	73.8	72.7	73.1	73.0	72.4	70.4	71.4	71.3	69.8	69.8	69.8	69.8	69.8	69.8
250	75.4	75.1	73.4	73.6	72.6	71.5	70.3	70.7	70.7	69.9	68.0	69.1	68.9	66.6	66.6	66.6	66.6	66.6	66.6
315	73.0	72.7	71.0	71.2	70.2	69.1	67.9	68.3	68.2	67.5	65.5	66.8	66.4	64.2	64.2	64.2	64.2	64.2	64.2
400	70.5	70.2	68.5	68.7	67.7	66.6	65.3	65.8	65.6	65.0	62.9	64.2	63.9	61.6	61.6	61.6	61.6	61.6	61.6
500	68.0	67.6	65.9	66.1	65.1	64.0	62.6	63.2	62.9	62.3	60.2	61.6	61.2	58.8	58.8	58.8	58.8	58.8	58.8
630	65.3	64.8	63.2	63.4	62.3	61.2	59.7	60.3	60.0	59.4	57.1	58.7	58.0	55.6	55.6	55.6	55.6	55.6	55.6
800	62.3	61.9	60.2	60.4	59.3	58.2	56.5	57.2	56.0	56.3	53.0	55.7	54.0	52.1	52.1	52.1	52.1	52.1	52.1
1000	59.1	58.7	56.9	57.1	56.0	54.9	53.1	53.7	53.3	52.0	50.0	52.3	51.0	48.2	48.2	48.2	48.2	48.2	48.2
1250	55.6	55.3	53.4	53.7	52.5	51.3	49.4	49.9	49.3	48.0	45.4	48.5	46.7	43.5	43.6	43.6	43.6	43.6	43.6
1600	51.7	51.6	49.2	49.5	48.1	47.0	44.9	45.4	44.6	44.1	39.7	44.0	41.6	38.3	38.3	38.3	38.3	38.3	38.3
2000	46.9	47.0	44.1	44.5	43.0	41.4	39.1	39.0	39.2	36.0	33.2	38.5	35.5	30.5	30.6	30.6	30.6	30.6	30.6
2500	41.7	41.3	38.2	38.0	37.1	35.7	32.5	33.0	30.5	29.5	19.4	31.6	24.0	16.4	16.4	16.4	16.4	16.4	16.4
3150	35.3	34.5	30.7	31.0	29.0	28.6	25.0	23.1	20.1	17.0	9.0	19.4	11.6	2.2	2.2	2.2	2.2	2.2	2.2
4000	27.0	26.9	21.0	22.9	19.4	16.7	12.6	0.1	0.6	0.6	.2	0.6							
5000	17.2	14.4	11.2	7.6	9.1	4.9	.1			.2									
6300	6.6	1.0	1.4																
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-001
RUN 01
AIRCRAFT CODE 711
OPERATION CODE 00118
PROFILE VERSION A
28 NOV 81
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	79.4	79.2	77.5	77.6	77.1	76.1	75.1	74.9	74.6	74.6	71.9	73.3	72.6	69.8	69.8	69.8	69.8	69.8	69.8
250	77.1	76.8	75.1	75.2	74.8	73.8	72.7	72.5	72.2	72.1	69.5	71.8	70.2	66.6	66.6	66.6	66.6	66.6	66.6
315	7 .7	74.4	72.8	72.9	72.4	71.4	70.2	70.1	69.7	69.7	67.0	68.6	67.8	64.2	64.2	64.2	64.2	64.2	64.2
400	72.2	71.9	70.3	70.4	69.9	68.9	67.7	67.5	67.2	67.2	64.4	66.1	65.2	61.6	61.6	61.6	61.6	61.6	61.6
500	69.6	69.4	67.7	67.8	67.3	66.3	64.3	64.9	64.5	64.5	61.7	63.4	62.5	58.8	58.8	58.8	58.8	58.8	58.8
630	66.9	66.6	64.9	65.8	64.5	63.4	62.8	62.8	61.6	61.6	58.6	60.6	59.4	55.5	55.6	55.6	55.6	55.6	55.6
800	64.8	63.7	62.8	62.1	61.4	60.4	58.9	58.8	58.3	58.5	55.4	57.5	56.1	52.1	52.1	52.1	52.1	52.1	52.1
1000	60.8	60.5	58.6	58.8	58.1	57.2	55.5	55.6	54.9	55.0	51.5	54.1	52.4	48.2	48.2	48.2	48.2	48.2	48.2
1250	57.2	57.1	55.1	55.4	54.6	53.6	51.7	51.6	50.9	51.0	46.9	50.3	49.1	43.6	43.6	43.6	43.6	43.6	43.6
1600	53.4	53.4	51.8	51.2	50.3	49.3	47.3	47.2	46.2	46.2	41.2	45.9	42.9	38.3	38.3	38.3	38.3	38.3	38.3
2000	48.6	48.6	45.9	46.2	45.2	43.7	41.4	41.6	40.8	40.2	34.8	40.3	36.8	30.5	30.6	30.6	30.6	30.6	30.6
2500	43.4	43.1	40.8	40.5	39.3	38.0	34.8	34.8	32.8	31.7	28.9	33.4	26.2	16.4	16.4	16.4	16.4	16.4	16.4
3150	37.8	36.3	32.5	33.4	32.0	30.9	27.4	24.9	21.7	19.1	11.4	21.2	13.0	2.2	2.2	2.2	2.2	2.2	2.2
4000	29.1	28.4	22.4	24.2	21.2	18.5	14.5	9.5	9.8	10.3	1.5	18.0							
5000	18.2	15.4	12.2	8.6	10.4	6.2	1.6			1.5									
6300	7.2	2.5	2.1																
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-001
RUN 01
AIRCRAFT CODE 711
OPERATION CODE 00110
PROFILE VERSION A
20 NOV 81
PAGE F3

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	62.8	62.8	60.8	61.0	59.7	58.6	57.5	57.8	57.4	57.1	55.1	56.5	56.0	54.1	54.1	54.1	54.1	54.1	54.1
250	60.7	60.6	58.6	58.8	57.6	56.4	55.1	55.7	55.1	55.0	53.1	54.4	53.9	52.0	52.0	52.0	52.0	52.8	52.0
315	58.5	58.4	56.5	56.6	55.4	54.3	52.8	53.5	52.8	52.8	51.0	52.3	51.8	49.9	49.9	49.9	49.9	49.9	49.9
400	56.2	56.1	54.2	54.4	53.1	52.1	50.9	51.3	50.5	50.6	48.9	50.1	49.7	47.3	47.8	47.8	47.8	47.8	47.8
500	54.0	53.8	51.9	52.2	50.8	49.8	48.2	49.0	48.1	48.3	46.7	47.9	47.5	45.5	45.5	45.5	45.5	45.5	45.5
630	51.6	51.4	49.5	49.8	48.4	47.4	45.8	46.7	45.8	45.9	44.3	45.5	45.2	43.2	43.2	43.2	43.2	43.2	43.2
800	49.1	48.9	47.0	47.3	45.9	45.0	43.3	44.3	43.0	43.4	41.8	43.1	42.7	40.7	40.7	40.7	40.7	40.7	40.7
1000	46.5	46.3	44.4	44.7	43.3	42.4	40.7	41.7	40.4	40.6	39.2	40.5	40.8	38.1	38.1	38.1	38.1	38.1	38.1
1250	43.8	43.5	41.7	42.0	40.5	39.7	38.0	39.0	37.6	37.7	36.2	37.7	37.1	35.2	35.2	35.2	35.2	35.2	35.2
1600	41.0	40.6	38.7	39.1	37.6	36.8	35.1	36.1	34.6	34.5	33.0	34.8	34.0	32.2	32.2	32.2	32.2	32.2	32.2
2000	38.0	37.6	35.7	36.0	34.5	33.8	32.0	33.8	31.3	31.0	29.5	31.6	30.7	28.8	28.8	28.8	28.8	28.8	28.8
2500	34.7	34.3	32.3	32.7	31.2	30.9	28.7	29.6	27.8	27.2	25.7	28.2	27.0	25.1	25.1	25.1	25.1	25.1	25.1
3150	31.2	30.7	28.7	29.2	27.6	26.9	29.2	25.9	24.8	28.1	21.6	24.5	23.8	21.1	21.1	21.1	21.1	21.1	28.1
4000	27.3	26.8	24.7	25.3	23.7	23.1	21.3	21.9	19.9	16.5	17.1	20.5	18.6	16.7	16.7	16.7	16.7	16.7	16.7
5000	23.1	22.6	20.4	21.0	19.4	18.8	17.1	17.7	15.6	14.0	12.7	18.3	14.2	12.3	12.3	12.3	12.3	12.3	12.3
6300	18.5	17.9	15.9	16.4	14.8	14.3	12.6	13.2	11.0	9.4	8.2	11.9	9.7	7.7	7.7	7.7	7.7	7.7	7.7
8000	14.2	13.4	11.8	12.2	10.4	10.1	8.3	9.4	7.2	5.7	4.8	7.9	6.1	4.2	4.2	4.2	4.2	4.2	4.2
10000	9.8	8.8	7.3	7.8	5.7	5.7	3.9	5.5	3.4	2.2	1.4	3.8	2.5	.8	.8	.8	.8	.8	.8
12500	5.2	4.0	2.9	3.4	1.1	1.3		1.7											
16000	.6																		
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 8F-711-001
RUN 01
AIRCRAFT CODE 711
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE G3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	64.5	64.6	62.6	62.7	61.9	60.9	59.7	59.6	59.0	59.3	56.6	58.3	57.3	54.1	54.1	54.1	54.1	54.1	54.1
250	62.4	62.4	60.4	60.5	59.7	58.7	57.4	57.4	56.7	57.1	54.6	56.2	55.2	52.0	52.0	52.0	52.0	52.0	52.0
315	60.2	60.2	58.2	58.3	57.5	56.6	55.2	55.2	54.4	55.0	52.5	54.1	53.2	49.9	49.9	49.9	49.9	49.9	49.9
400	57.9	57.9	56.0	56.1	55.3	54.4	52.9	53.0	52.0	52.8	50.4	51.9	51.0	47.8	47.8	47.8	47.8	47.8	47.8
500	55.6	55.5	53.7	53.8	53.0	52.1	50.5	50.8	49.0	50.5	48.2	49.7	48.8	45.5	45.5	45.5	45.5	45.5	45.5
630	53.3	53.1	51.3	51.5	50.6	49.7	48.1	48.4	47.2	48.1	45.9	47.4	46.5	43.2	43.2	43.2	43.2	43.2	43.2
800	50.8	50.6	48.8	49.0	48.1	47.3	45.6	46.0	44.0	45.5	43.4	44.9	44.0	40.7	40.7	40.7	40.7	40.7	40.7
1000	48.2	48.0	46.2	46.4	45.5	44.7	43.0	43.5	42.0	42.8	40.7	42.4	41.3	38.1	38.1	38.1	38.1	38.1	38.1
1250	45.5	45.3	43.4	43.7	42.7	42.0	40.3	40.8	39.2	39.9	37.7	39.6	38.4	35.2	35.2	35.2	35.2	35.2	35.2
1600	42.7	42.4	40.5	40.8	39.8	39.1	37.4	37.9	36.1	35.6	34.5	36.6	35.3	32.2	32.2	32.2	32.2	32.2	32.2
2000	39.7	39.4	37.4	37.7	36.7	36.0	34.4	34.7	32.9	33.2	31.1	33.4	32.0	28.8	28.8	28.8	28.8	28.8	28.8
2500	36.4	36.1	34.1	34.4	33.3	32.8	31.1	31.3	29.4	29.4	27.3	30.0	28.3	25.1	25.1	25.1	25.1	25.1	25.1
3150	32.9	32.5	30.4	30.9	29.7	29.2	27.5	27.7	25.6	25.2	23.1	26.3	24.3	21.1	21.1	21.1	21.1	21.1	21.1
4000	28.7	28.2	26.1	26.6	25.4	24.9	23.2	23.3	21.2	20.3	18.3	21.9	19.7	16.7	16.7	16.7	16.7	16.7	16.7
5000	24.1	23.6	21.5	22.0	20.7	20.2	18.2	18.7	16.2	15.3	13.6	17.4	15.0	12.3	12.3	12.3	12.3	12.3	12.3
6300	19.2	18.6	16.6	17.1	15.6	15.2	13.5	13.9	11.6	10.2	8.8	12.6	10.2	7.7	7.7	7.7	7.7	7.7	7.7
8000	14.6	13.8	12.0	12.6	10.8	10.5	8.8	9.7	7.2	6.2	5.1	8.3	6.4	4.2	4.2	4.2	4.2	4.2	4.2
10000	9.8	8.8	7.3	7.8	5.7	5.7	3.9	5.5	3.4	2.2	1.4	3.8	2.5	.8	.8	.8	.8	.8	.8
12500	5.2	4.0	2.9	3.4	1.1	1.3		1.7											
16000	.6																		
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.8 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-001
RUN 01
AIRCRAFT CODE 711
OPERATION CODE 00110
PROFILE VERSION A
20 NOV 81
PAGE J3

P=PNLT A=AL T=ALT

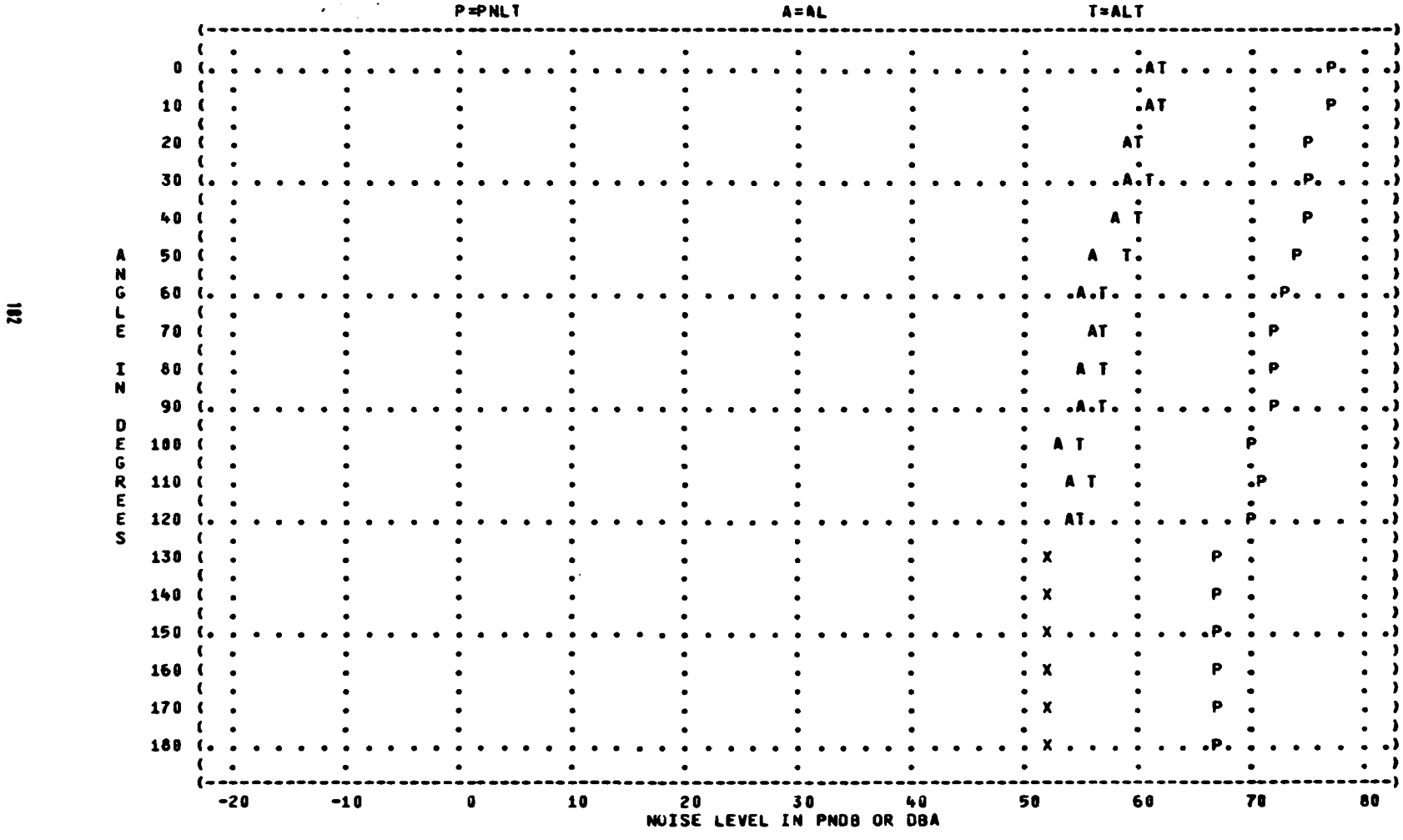


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-001
RUN 02
AIRCRAFT CODE 711
OPERATION CODE 00185
PROFILE VERSION A
20 NOV 81
PAGE C2

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (95%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	70	69	71	70	72	71	73	70	70	73	72	73	76	80	82	84	86	83	84
63	64	64	64	66	67	66	65	69	70	70	71	73	77	73	76	78	80	78	78
80	67	63	62	64	63	62	63	62	67	69	68	67	71	70	71	73	75	71	72
100	70	66	66	68	63	63	61	66	64	66	68	67	67	67	68	69	70	67	65
125	68	64	64	65	62	62	59	63	60	63	66	64	65	65	66	67	67	63	63
160	63	62	61	62	60	58	60	58	56	59	62	61	63	65	64	63	64	62	60
200	58	57	58	57	58	54	56	54	53	55	59	59	62	63	62	61	61	61	57
250	56	57	59	57	58	52	60	52	52	53	56	56	52	63	64	64	61	58	56
315	57	56	54	53	58	48	61	51	45	48	52	51	53	56	57	56	58	55	55
400	58	55	55	53	58	50	59	50	45	46	48	48	49	52	55	58	57	53	56
500	65	62	62	61	62	59	64	57	52	48	48	47	49	52	56	59	58	53	55
630	62	59	59	59	60	60	61	55	53	51	48	48	50	51	55	59	58	54	55
800	59	56	55	56	60	56	60	54	51	52	50	50	51	50	53	56	57	53	53
1000	58	56	55	56	58	56	59	52	48	51	51	52	53	51	53	56	57	52	53
1250	61	60	58	58	59	57	60	54	50	51	50	53	53	52	55	59	58	53	51
1600	62	60	59	59	59	57	59	52	51	50	50	52	53	53	54	55	54	50	51
2000	56	57	55	55	54	52	62	49	48	48	48	52	52	51	52	52	54	50	52
2500	49	52	51	52	59	49	66	45	45	46	46	48	51	47	49	51	51	49	48
3150	51	50	48	49	55	47	60	49	52	51	45	47	47	46	49	51	51	49	50
4000	46	45	43	43	47	40	50	42	48	46	43	45	42	43	46	49	48	47	48
5000	49	49	48	47	46	41	46	42	49	46	43	44	42	43	45	47	48	47	44
6300	51	50	49	47	46	43	45	43	48	46	42	47	41	41	44	46	45	44	42
8000	50	48	45	45	44	41	45	43	47	44	41	50	40	41	44	47	45	44	41
10000	48	46	42	41	46	39	44	39	45	41	48	42	37	37	40	43	42	39	37
OVERALL	77	74	75	75	76	74	77	78	79	77	77	77	81	82	84	86	87	85	86

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (95%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-001
RUN 02
AIRCRAFT CODE 711
OPERATION CODE 00105
PROFILE VERSION A
20 NOV 81
PAGE D2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	84.7	83.0	82.1	82.1	84.3	79.9	88.4	78.9	79.5	79.1	78.3	79.3	80.9	81.1	83.4	85.8	86.8	83.3	84.1
250	82.4	80.7	79.9	79.8	82.0	77.6	86.1	76.5	77.2	76.7	75.8	77.0	78.4	78.5	80.9	83.3	84.3	80.8	81.5
315	80.1	78.4	77.5	77.5	79.7	75.3	83.8	74.1	74.7	74.3	73.4	74.6	75.9	76.0	78.3	80.7	81.7	78.2	78.9
400	77.8	76.0	75.2	75.1	77.3	73.0	81.4	71.7	72.2	71.8	70.8	72.2	73.4	73.4	75.8	78.1	79.0	75.5	76.2
500	75.3	73.6	72.7	72.7	74.8	70.6	79.0	69.1	69.6	69.2	68.3	69.6	70.8	70.8	73.1	75.5	76.4	72.9	73.5
630	72.8	71.0	70.2	70.1	72.3	68.0	76.4	66.4	66.8	66.5	65.6	67.0	68.1	68.1	70.4	72.7	73.6	70.1	70.8
800	70.1	68.3	67.5	67.5	69.5	65.2	73.7	63.6	63.8	63.6	62.7	64.1	65.3	65.2	67.6	69.9	70.8	67.3	68.0
1000	67.3	65.5	64.6	64.6	66.5	62.3	70.8	60.5	60.6	60.3	59.3	61.1	62.4	62.2	64.6	67.0	67.9	64.3	65.0
1250	64.2	62.3	61.5	61.5	63.4	59.3	67.7	57.2	56.9	56.6	55.8	57.6	59.1	58.9	61.4	63.9	64.8	61.0	61.8
1600	61.0	59.1	58.2	58.1	60.0	56.8	64.3	53.7	52.9	52.5	51.6	53.7	55.2	55.2	57.8	60.5	61.4	57.4	58.2
2000	57.6	55.3	54.5	54.4	56.2	52.3	60.6	49.9	47.9	47.6	47.2	49.2	50.8	50.8	53.2	56.1	57.1	52.8	53.8
2500	53.9	51.3	50.6	50.1	51.8	47.7	56.3	45.3	42.2	42.1	42.0	44.0	45.6	45.8	48.1	51.4	51.9	47.0	48.1
3150	49.3	46.1	45.5	45.2	46.8	43.0	51.4	39.6	35.8	34.6	35.5	36.8	39.9	39.7	42.8	46.2	45.8	40.7	41.1
4000	44.0	41.2	40.2	39.5	41.8	38.3	45.7	34.1	29.7	28.3	26.5	28.8	31.1	31.3	36.0	39.8	39.2	33.7	35.1
5000	38.1	35.3	34.5	33.9	35.8	32.4	39.2	26.1	18.9	18.7	14.3	18.9	22.4	21.1	27.1	32.9	32.4	24.0	25.9
6300	32.0	28.6	27.0	25.9	28.5	25.3	32.4	19.7	6.8	9.1	2.2	8.9	13.6	11.0	17.0	24.3	22.0	11.0	13.9
8000	26.5	19.3	17.7	16.1	20.1	16.3	23.5	5.2					5.1	.8	6.8	14.9	13.1		1.9
10000	17.2	10.6	10.0	8.3	11.3	7.4	14.3									5.6	4.1		
12500	9.0	1.9	2.4	.5	2.4		5.0												
16000	.8																		
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-001
RUN 02
AIRCRAFT CODE 711
OPERATION CODE 00105
PROFILE VERSION A
20 NOV 81
PAGE E2

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (95%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	86.5	84.8	83.5	83.7	85.6	81.0	90.0	80.7	81.4	80.6	79.6	80.3	80.9	81.1	84.1	86.6	86.8	83.3	84.1
250	84.2	82.5	81.2	81.5	83.4	78.7	87.8	78.4	79.0	78.2	77.2	77.9	78.4	78.5	81.6	84.0	84.3	80.8	81.5
315	81.9	80.2	78.9	79.2	81.0	76.4	85.5	76.0	76.6	75.8	74.7	75.6	75.9	76.0	79.0	81.5	81.7	78.2	78.3
400	79.6	77.8	76.6	76.8	78.6	74.1	83.1	73.5	74.0	73.3	72.2	73.1	73.4	73.4	76.4	78.9	79.0	75.5	76.2
500	77.1	75.4	74.1	74.4	76.2	71.7	80.7	71.0	71.4	70.7	69.7	70.6	70.8	70.8	73.8	76.2	76.4	72.9	73.5
630	74.5	72.8	71.6	71.8	73.6	69.1	78.1	68.3	68.7	68.0	67.0	67.9	68.1	68.1	71.0	73.5	73.6	70.1	70.8
800	71.9	70.1	68.9	69.1	70.8	66.3	75.4	65.4	65.7	65.1	64.0	65.1	65.3	65.2	68.2	70.7	70.8	67.3	68.0
1000	69.1	67.3	66.0	66.3	67.9	63.4	72.5	62.3	62.4	61.8	60.7	62.1	62.4	62.2	65.3	67.8	67.9	64.3	65.0
1250	66.0	64.1	62.9	63.2	64.7	60.4	69.4	59.1	58.7	58.2	57.2	58.6	59.1	58.9	62.1	64.6	64.8	61.0	61.8
1600	62.7	60.8	59.6	59.8	61.3	57.1	66.0	55.6	54.7	54.0	53.0	54.7	55.2	55.2	58.2	61.2	61.4	57.4	58.2
2000	59.4	57.1	55.9	56.1	57.5	53.4	62.3	51.7	49.7	49.2	48.6	50.2	50.8	50.8	53.8	56.8	57.1	52.8	53.8
2500	55.7	53.1	52.0	51.8	53.2	48.8	58.0	47.1	44.0	43.6	43.4	45.0	45.6	45.8	48.7	52.1	51.9	47.0	48.1
3150	51.1	47.9	46.9	46.9	48.1	44.1	53.1	41.5	37.7	36.1	36.9	37.8	39.9	39.7	43.5	46.9	45.8	40.7	41.1
4000	45.4	42.6	41.3	40.9	42.9	39.2	47.1	35.6	31.2	29.6	27.6	29.6	31.1	31.3	36.5	40.4	39.2	33.7	35.1
5000	39.1	36.4	35.3	34.9	36.6	33.1	40.2	27.3	20.0	19.6	15.2	19.5	22.4	21.1	27.5	33.3	32.4	24.8	25.9
6300	32.7	29.3	27.6	26.6	29.1	25.7	33.1	16.4	7.6	9.7	2.8	9.3	13.8	11.0	17.2	24.5	22.0	11.0	13.9
8000	26.6	19.6	18.0	16.4	20.4	16.6	23.9	5.6					5.1	.5	6.9	15.1	13.1		1.9
10000	17.2	10.6	10.0	8.3	11.3	7.4	14.3									5.6	4.1		
12500	9.0	1.9	2.4	.5	2.4		5.0												
16000	.8																		
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (95%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-801
RUN 02
AIRCRAFT CODE 711
OPERATION CODE 00105
PROFILE VERSION A
20 NOV 81
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	71.7	69.9	69.0	68.8	70.7	67.6	74.8	65.0	63.8	63.6	63.3	64.0	65.6	65.5	67.2	69.3	69.2	65.8	66.8
250	69.6	67.8	66.9	66.7	68.6	65.5	71.9	62.9	61.6	61.4	61.2	62.4	63.5	63.5	65.1	67.2	67.1	63.7	63.9
315	67.5	65.7	64.7	64.6	66.5	63.4	69.7	60.6	59.3	59.2	59.0	60.2	61.4	61.4	63.0	65.1	65.0	61.6	61.8
400	65.3	63.5	62.6	62.4	64.3	61.2	67.4	58.6	57.1	57.0	56.8	57.9	59.3	59.2	60.9	63.0	62.9	59.4	59.6
500	63.1	61.3	60.4	60.2	62.1	59.1	65.2	56.4	54.7	54.7	54.6	55.6	57.0	57.0	58.7	60.8	60.7	57.2	57.4
630	60.8	59.0	58.1	58.0	59.8	56.8	62.8	54.1	52.3	52.3	52.2	53.2	54.7	54.7	56.4	58.5	58.5	54.9	55.2
800	58.5	56.7	55.8	55.6	57.4	54.5	60.4	51.6	49.8	49.9	49.8	50.8	52.3	52.2	54.0	56.2	56.2	52.6	52.9
1000	56.2	54.3	53.4	53.2	55.0	52.2	57.8	49.4	47.3	47.4	47.3	48.2	49.8	49.7	51.6	53.8	53.8	50.2	50.6
1250	53.7	51.8	50.9	50.7	52.5	49.8	55.1	46.9	44.7	44.7	44.6	45.6	47.1	47.0	49.0	51.3	51.3	47.7	48.1
1600	51.2	49.2	48.3	48.1	49.9	47.2	52.4	44.4	41.9	41.9	41.7	42.7	44.2	44.2	46.3	48.7	48.7	45.8	45.5
2000	48.5	46.5	45.6	45.4	47.2	44.6	49.4	41.6	39.0	38.9	38.7	39.7	41.1	41.1	43.3	45.9	45.8	42.8	42.5
2500	45.7	43.6	42.7	42.5	44.3	41.8	46.3	38.7	35.9	35.8	35.4	36.5	37.8	37.8	40.1	42.8	42.7	38.8	39.4
3150	42.5	40.3	39.4	39.2	41.1	38.7	42.8	35.5	32.6	32.5	31.9	33.0	34.2	34.1	36.7	39.5	39.3	35.4	35.9
4000	38.9	36.7	35.8	35.6	37.5	35.2	39.1	32.0	28.9	28.8	28.1	29.2	30.4	30.1	32.8	35.7	35.6	31.5	32.0
5000	34.8	32.6	31.7	31.5	33.5	31.2	34.8	27.9	24.8	24.8	24.1	25.2	26.2	25.9	28.7	31.6	31.5	27.4	27.8
6300	30.4	28.1	27.2	27.1	29.1	26.8	30.3	23.6	20.4	20.4	19.7	20.7	21.8	21.4	24.2	27.2	27.1	23.0	23.3
8000	26.4	24.0	23.2	23.1	25.1	22.8	26.2	19.6	16.5	16.3	15.6	16.4	17.6	17.4	20.3	23.3	23.2	19.2	19.7
10000	22.2	19.7	19.0	18.7	20.7	18.5	21.8	15.4	12.3	12.0	11.3	11.9	13.3	13.4	16.2	19.2	19.1	15.3	15.9
12500	17.6	15.8	14.4	14.1	16.0	13.8	17.1	10.5	7.9	7.4	6.8	7.2	9.0	9.4	12.8	14.9	15.0	11.3	12.1
16000	12.7	10.0	9.5	9.1	10.9	8.7	12.0	6.1	3.4	2.7	2.5	2.6	5.0	5.2	7.9	10.6	10.9	7.5	8.4
20000	7.4	4.5	4.2	3.7	5.3	3.1	6.5	1.1					1.3	1.3	4.0	6.5	7.1	4.8	5.0
25000	1.6						.5								.5	2.7	3.8	.8	1.9

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-001
RUN 02
AIRCRAFT CODE 711
OPERATION CODE 00105
PROFILE VERSION A
20 NOV 81
PAGE 62

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (95%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	73.5	71.7	70.4	70.5	72.1	68.7	75.7	66.8	65.7	65.1	64.7	65.5	65.6	65.5	67.9	70.1	69.2	65.8	66.8
250	71.4	69.6	68.2	68.4	69.9	66.6	73.6	64.7	63.4	62.9	62.6	63.4	63.5	63.5	65.8	68.0	67.1	63.7	63.9
315	69.2	67.5	66.1	66.3	67.8	64.5	71.4	62.6	61.2	60.7	60.4	61.2	61.4	61.4	63.7	65.9	65.8	61.6	61.8
400	67.1	65.3	63.9	64.1	65.6	62.3	69.1	60.4	59.9	58.5	58.2	58.9	59.3	59.2	61.5	63.7	62.9	59.4	59.6
500	64.9	63.1	61.7	61.9	63.4	60.2	66.8	58.2	56.9	56.2	56.0	56.6	57.0	57.0	59.3	61.5	60.7	57.2	57.4
630	62.6	60.8	59.5	59.6	61.1	57.9	64.9	56.0	54.1	53.9	53.6	54.2	54.7	54.7	57.0	59.3	58.5	54.9	55.2
800	60.3	58.5	57.1	57.3	58.8	55.6	62.8	53.7	51.7	51.4	51.2	51.8	52.3	52.2	54.7	56.9	56.2	52.6	52.9
1000	58.8	56.1	54.7	54.9	56.4	53.3	59.9	51.3	49.1	48.9	48.7	49.2	49.8	49.7	52.2	54.6	53.8	50.2	50.6
1250	55.5	53.6	52.2	52.4	53.9	50.9	56.8	48.8	46.5	46.2	46.0	46.5	47.1	47.8	49.6	52.0	51.3	47.7	48.1
1600	53.8	51.8	49.7	49.8	51.2	48.3	54.0	46.2	43.7	43.4	43.1	43.7	44.2	44.2	46.9	49.4	48.7	45.8	45.5
2000	50.3	48.3	47.8	47.1	48.5	45.7	51.1	43.5	40.8	40.5	40.1	40.7	41.1	41.1	44.0	46.6	45.8	42.8	42.6
2500	47.5	45.4	44.1	44.2	45.6	42.9	48.0	40.6	37.8	37.3	36.8	37.4	37.8	37.8	40.8	43.5	42.7	38.8	39.4
3150	44.2	42.1	40.8	40.9	42.4	39.8	44.5	37.4	34.4	34.0	33.3	34.0	34.2	34.1	37.3	40.2	39.3	35.4	35.9
4000	40.3	38.1	36.9	37.0	38.6	36.1	40.4	33.4	30.4	30.0	29.2	30.0	30.4	30.1	33.4	36.3	35.6	31.5	32.0
5000	35.8	33.6	32.5	32.6	34.3	31.8	35.8	29.0	25.9	25.7	24.9	25.7	26.2	25.3	29.1	32.1	31.5	27.4	27.8
6300	31.1	28.9	27.8	27.8	29.6	27.3	31.0	24.3	21.2	21.0	20.3	21.1	21.8	21.4	24.5	27.5	27.1	23.8	23.3
8000	26.8	24.4	23.5	23.4	25.3	23.0	26.5	20.0	16.8	16.6	15.9	16.6	17.6	17.4	20.4	23.5	23.2	19.2	19.7
10000	22.2	19.7	19.0	18.7	20.7	18.5	21.8	15.4	12.3	12.0	11.3	11.9	13.3	13.4	16.2	19.2	19.1	15.3	15.9
12500	17.6	15.8	15.4	14.1	16.0	13.8	17.1	10.9	7.9	7.4	6.8	7.2	9.0	9.4	12.8	14.9	15.0	11.3	12.1
16000	12.7	10.8	9.5	9.1	10.9	8.7	12.0	6.1	3.4	2.7	2.5	2.6	5.0	5.5	7.9	10.6	10.9	7.5	8.4
20000	7.4	4.5	4.2	3.7	5.3	3.1	6.5	1.1					1.3	1.3	4.0	6.5	7.1	4.8	5.0
25000	1.6						.5								.5	2.7	3.8	.8	1.9

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

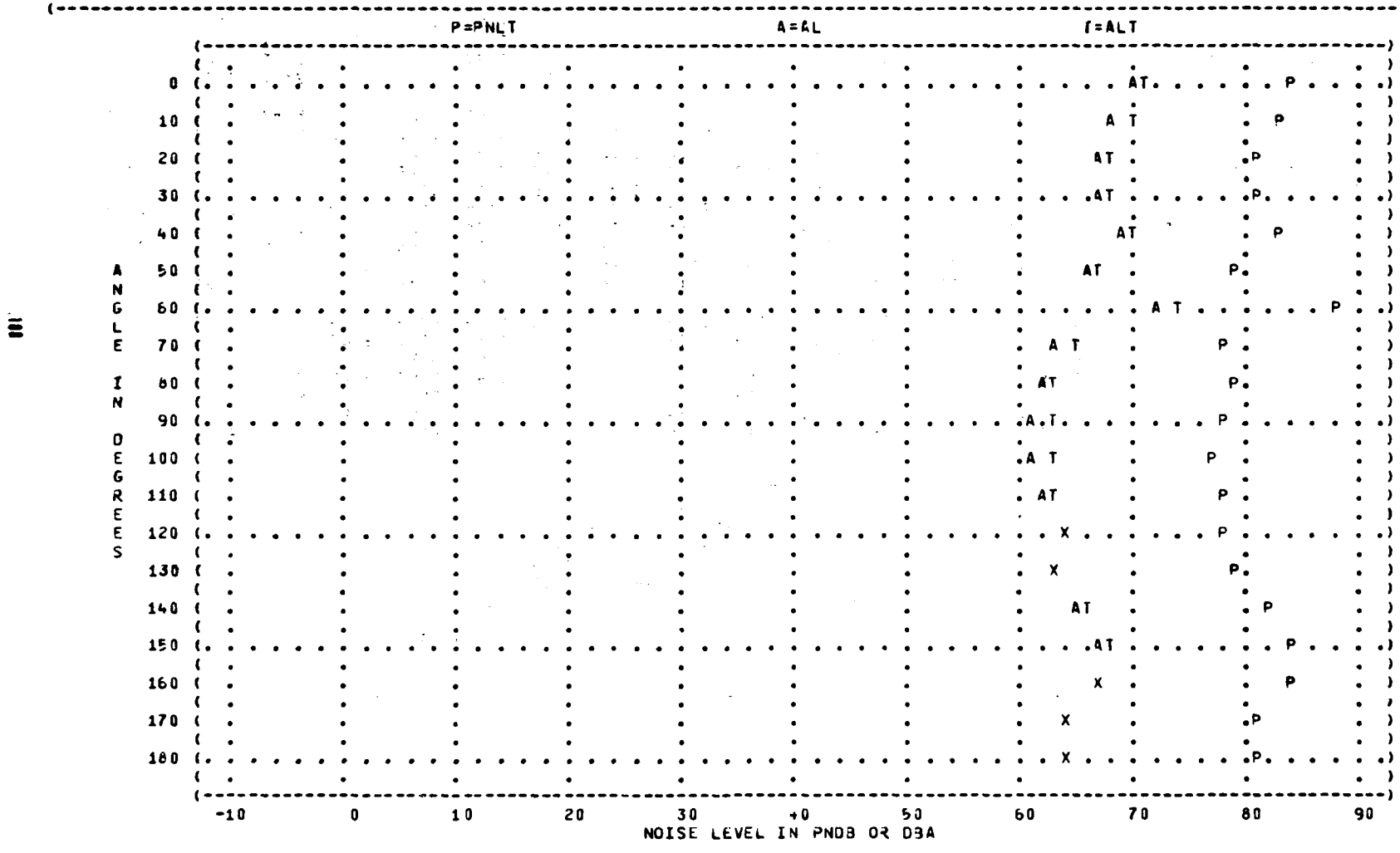
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (95%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

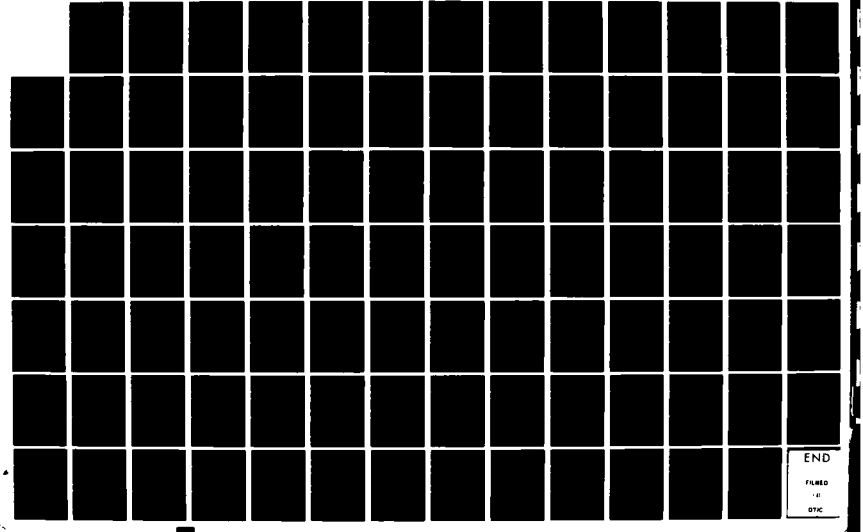
METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-001
RUN 02
AIRCRAFT CODE 711
OPERATION CODE 00105
PROFILE VERSION A
20 NOV 81
PAGE J2



AD-A122 844 FAR-FIELD ACOUSTIC DATA FOR THE TEXAS ASE INC HUSH-HOUSE SUPPLEMENT(U) AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OH R A LEE APR 82 3/3

UNCLASSIFIED AFAMRL-TR-81-148 F/G 6/6 NL



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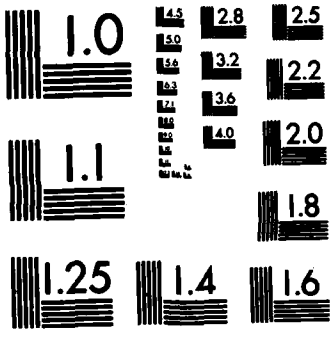


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-001
RUN 03
AIRCRAFT CODE 711
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE C1

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MAX MIL PWR (99%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	73	69	74	73	73	75	75	78	77	77	76	77	80	83	85	87	87	85	88
63	68	66	66	66	66	68	69	72	72	72	75	76	79	78	75	79	82	80	82
80	68	64	65	65	65	64	65	68	70	71	72	70	75	75	74	72	74	73	74
100	71	67	66	67	65	64	63	66	65	68	70	70	71	71	70	67	68	67	65
125	70	66	65	65	62	63	62	64	63	65	67	66	67	69	69	65	66	64	60
160	65	63	61	62	57	60	59	58	59	60	62	63	65	67	66	61	55	61	59
200	60	57	59	58	54	55	55	53	53	56	58	61	63	67	66	60	53	60	59
250	61	58	61	58	54	52	54	52	52	55	55	58	63	64	67	65	55	57	58
315	62	60	60	57	53	50	50	49	48	50	49	54	56	57	59	58	55	54	55
400	68	65	63	65	61	58	57	55	49	52	49	53	52	54	59	57	55	53	53
500	70	66	65	67	64	65	61	62	55	54	51	51	52	54	59	57	56	54	53
630	70	65	64	65	65	67	61	62	58	57	53	52	52	54	58	58	56	55	54
800	66	61	60	62	62	64	60	59	56	57	55	53	54	53	60	57	52	55	53
1000	64	62	59	60	61	61	55	57	51	54	52	54	54	54	58	58	51	55	53
1250	68	67	63	63	64	62	59	59	54	55	53	56	56	55	61	62	49	56	53
1600	67	67	63	64	64	61	58	57	55	55	51	55	57	54	60	59	49	52	51
2000	60	62	59	60	58	55	54	53	51	51	50	54	55	52	57	53	47	51	51
2500	52	54	54	56	56	51	48	46	46	49	49	51	53	48	53	51	47	49	49
3150	48	49	47	48	47	45	45	46	51	49	45	49	49	48	52	50	64	49	49
4000	49	50	47	48	47	44	45	47	52	49	44	47	46	47	49	49	55	47	47
5000	50	52	49	49	47	42	42	44	50	48	44	45	45	46	48	49	51	47	47
6300	49	51	48	47	46	42	44	44	49	46	41	43	43	43	46	48	47	45	44
8000	50	52	46	47	46	42	45	44	50	45	40	41	41	42	46	47	45	44	44
10000	47	48	42	43	47	40	41	41	46	42	41	38	38	38	44	44	43	40	40
OVERALL	80	77	77	78	77	76	77	80	79	80	80	81	84	85	86	88	89	87	89

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-881
RUN 03
AIRCRAFT CODE 711
OPERATION CODE 08184
PROFILE VERSION A
28 NOV 81
PAGE D1

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MAX MIL PWR (99%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	88.9	87.8	85.3	86.8	85.2	83.5	81.4	81.6	81.3	80.8	79.9	81.5	84.0	84.3	87.8	87.7	87.7	85.2	87.1
250	86.7	85.6	83.1	83.7	82.9	81.3	79.1	79.3	78.9	78.5	77.5	79.0	81.5	82.3	84.5	85.1	85.3	82.6	84.5
315	84.4	83.3	80.8	81.5	80.6	79.0	76.8	77.0	76.5	76.2	75.0	76.6	79.1	79.8	82.8	82.5	82.9	80.0	81.8
400	82.1	81.0	78.5	79.1	78.3	76.7	74.5	74.6	73.9	73.8	72.6	74.2	76.5	77.2	79.4	79.9	80.4	77.4	79.1
500	79.7	78.6	76.1	76.7	75.9	74.4	72.0	72.2	71.3	71.3	70.0	71.0	74.0	74.5	76.7	77.2	77.0	74.7	76.4
630	77.3	76.1	73.6	74.2	73.4	71.9	69.5	69.7	68.5	68.7	67.4	69.2	71.3	71.8	74.0	74.4	75.1	71.9	73.6
800	74.7	73.4	71.0	71.6	70.9	69.4	66.0	67.0	65.7	66.0	64.5	66.5	68.5	69.0	71.2	71.6	72.2	69.1	70.0
1000	72.0	70.7	68.2	68.9	68.0	66.7	64.0	64.2	62.0	63.1	61.4	63.6	65.6	66.0	68.3	68.7	69.1	66.2	67.0
1250	69.1	67.7	65.2	65.9	65.0	63.9	60.9	61.2	59.5	59.9	58.0	60.4	62.5	62.9	65.3	65.6	65.7	63.0	64.6
1600	65.9	64.6	62.1	62.7	61.9	60.9	57.6	58.0	55.9	56.3	54.0	56.6	59.1	59.4	62.0	62.2	61.9	59.5	61.2
2000	62.6	61.2	58.6	59.3	58.5	57.0	54.0	54.6	51.6	52.1	49.7	52.5	55.1	54.6	58.3	57.9	57.5	55.0	56.7
2500	59.0	57.3	54.0	55.7	54.6	54.2	49.0	50.6	47.2	47.5	44.9	47.5	50.3	49.1	54.1	53.0	52.3	49.5	51.6
3150	55.0	53.1	50.3	51.4	49.9	50.1	44.7	45.7	41.3	41.9	39.4	41.9	44.7	43.5	48.9	47.7	46.0	42.5	44.5
4000	50.4	48.3	45.1	46.3	45.0	45.7	40.0	40.6	36.1	35.0	32.2	34.4	37.2	35.9	42.3	42.0	37.9	35.9	36.5
5000	45.4	42.5	39.0	41.0	39.9	40.6	34.4	35.2	29.4	29.1	24.0	26.2	28.7	26.3	35.5	35.5	26.6	26.9	25.0
6300	39.7	36.0	33.6	35.1	34.0	34.4	27.3	28.7	19.9	20.0	12.0	14.2	16.6	16.0	24.3	27.9	13.9	10.0	12.6
8000	34.6	30.3	28.0	29.6	27.7	29.4	10.3	20.0	9.0	10.5	.0	2.3	4.6	5.7	19.0	10.0	1.2	9.1	
10000	28.6	22.1	17.7	20.7	10.1	21.3	9.9	12.0		.1					9.7	0.2		.3	
12500	20.2	12.4	9.0	12.0	9.2	12.5	1.5	3.9							.4				
16000	10.5	2.0	.3	4.0	.3	3.6													
20000	.0																		
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-001
RUN 03
AIRCRAFT CODE 711
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE E1

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MAX MIL PWR (99%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	88.9	87.8	85.3	86.0	85.2	83.5	81.4	81.6	81.3	80.0	79.9	81.5	84.0	84.3	87.7	89.0	91.9	85.2	87.1
250	86.7	85.6	83.1	83.7	82.9	81.3	79.1	79.3	78.9	78.5	77.5	79.0	81.5	82.3	85.2	86.4	89.5	82.6	84.5
315	84.4	83.3	80.8	81.5	80.6	79.0	76.8	77.0	76.5	76.2	75.0	76.6	79.1	79.5	82.7	83.8	87.1	80.0	81.8
400	82.1	81.0	78.5	79.1	78.3	76.7	74.5	74.6	73.9	73.8	72.6	74.2	76.5	77.2	80.1	81.2	84.6	77.4	79.1
500	79.7	78.6	76.1	76.7	75.9	74.4	72.0	72.2	71.3	71.3	70.0	71.8	74.0	74.5	77.4	78.5	82.0	74.7	76.4
630	77.3	76.1	73.6	74.2	73.4	71.9	69.5	69.7	68.5	68.7	67.4	69.2	71.3	71.8	74.7	75.8	79.3	71.9	73.6
800	74.7	73.4	71.0	71.6	70.8	69.4	66.8	67.0	65.7	66.0	64.5	66.5	68.5	69.0	71.9	72.9	76.4	69.1	70.8
1000	72.8	70.7	68.2	68.9	68.0	66.7	64.0	64.2	62.8	63.1	61.4	63.6	65.6	66.0	69.1	70.0	73.3	66.2	67.8
1250	69.1	67.7	65.2	65.9	65.0	63.9	60.9	61.2	59.5	59.9	58.0	60.4	62.5	62.9	66.1	66.9	69.9	63.0	64.6
1600	65.9	64.6	62.1	62.7	61.9	60.9	57.6	58.0	55.9	56.3	54.0	56.5	59.1	59.4	62.7	63.6	66.1	59.5	61.2
2000	62.6	61.2	58.6	59.3	58.5	57.8	54.0	54.6	51.6	52.1	49.7	52.5	55.1	54.8	59.0	59.2	61.7	55.0	56.7
2500	59.0	57.3	54.8	55.7	54.6	54.2	49.8	50.6	47.2	47.5	44.9	47.5	50.3	49.1	54.8	54.3	56.6	49.5	51.6
3150	55.0	53.1	50.3	51.4	49.9	50.1	44.7	45.7	41.3	41.9	39.4	41.9	44.7	43.5	49.6	49.0	50.2	42.5	44.5
4000	50.4	48.3	45.1	46.3	45.0	45.7	40.0	40.6	36.1	36.0	32.2	34.4	37.2	35.9	42.8	43.1	41.2	35.9	36.5
5000	45.4	42.5	39.8	41.0	39.9	40.6	34.4	35.2	29.4	29.1	24.8	26.2	28.7	26.3	36.0	36.3	29.2	26.9	25.8
6300	39.7	36.0	33.6	35.1	34.0	34.4	27.3	28.7	19.9	20.8	12.6	14.2	16.6	16.0	28.6	28.4	15.6	18.0	12.6
8000	34.6	30.3	28.0	29.6	27.7	29.4	18.3	20.0	9.8	10.5	.8	2.3	4.6	5.7	19.2	18.3	2.1	9.1	
10000	28.6	22.1	17.7	20.7	18.1	21.3	9.9	12.0		.1					9.7	8.2		.3	
12500	20.2	12.4	9.0	12.8	9.2	12.5	1.5	3.9							.4				
16000	10.5	2.8	.3	4.8	.3	3.6													
20000	.8																		
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-001
RUN 03
AIRCRAFT CODE 711
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE F1

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MAX MIL PWR (99%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.4	75.6	73.1	73.9	73.5	73.0	69.2	69.4	66.8	66.8	65.0	66.7	68.4	68.1	71.4	70.6	70.2	67.2	67.0
250	75.3	73.5	71.0	71.8	71.4	70.9	67.1	67.3	64.6	64.7	62.9	64.6	66.3	66.1	69.3	68.5	68.0	65.1	64.9
315	73.2	71.3	68.9	69.7	69.2	68.8	65.0	65.2	62.4	62.5	60.8	62.4	64.2	64.0	67.2	66.4	65.8	62.9	62.8
400	71.1	69.2	66.7	67.6	67.1	66.7	62.8	63.0	60.1	60.4	58.6	60.3	62.0	61.8	65.1	64.2	63.5	60.8	60.7
500	68.9	67.0	64.5	65.4	64.9	64.5	60.7	60.9	57.9	58.1	56.4	58.0	59.8	59.6	62.9	62.0	61.1	58.6	58.5
630	66.7	64.7	62.3	63.2	62.7	62.3	58.4	58.7	55.5	55.9	54.2	55.7	57.5	57.3	60.6	59.8	58.6	56.4	56.3
800	64.5	62.4	60.0	60.9	60.4	60.1	56.2	56.4	53.1	53.5	51.8	53.3	55.1	54.9	58.2	57.5	56.1	54.1	54.1
1000	62.2	60.0	57.7	58.6	58.0	57.8	53.8	54.1	50.7	51.1	49.4	50.8	52.6	52.4	55.8	55.1	53.4	51.8	51.8
1250	59.8	57.6	55.2	56.1	55.6	55.4	51.4	51.7	48.1	48.5	46.8	48.2	50.0	49.8	53.2	52.6	50.7	49.3	49.4
1600	57.3	55.0	52.7	53.6	53.1	53.0	48.9	49.2	45.5	45.9	44.0	45.4	47.1	47.0	50.5	50.0	47.7	46.7	46.8
2000	54.7	52.3	50.1	51.0	50.4	50.4	46.3	46.6	42.7	43.1	41.1	42.4	44.0	43.9	47.7	47.1	44.4	43.7	43.8
2500	51.9	49.4	47.2	48.1	47.5	47.7	43.5	43.8	39.8	40.1	38.0	39.2	40.7	40.5	44.5	44.1	40.8	40.6	40.5
3150	48.7	46.1	44.0	44.9	44.4	44.7	40.3	40.7	36.6	36.9	34.6	35.7	37.1	36.9	41.2	40.7	36.9	37.1	36.8
4000	45.2	42.6	40.3	41.3	40.9	41.2	36.8	37.2	33.1	33.4	31.0	32.0	33.2	33.0	37.5	37.0	32.6	33.4	32.9
5000	41.1	38.3	36.2	37.2	36.8	37.3	32.8	33.2	29.0	29.4	27.0	27.9	29.0	26.8	33.4	33.0	28.1	29.3	28.5
6300	36.7	33.9	31.8	32.8	32.5	33.0	28.5	28.9	24.7	25.0	22.6	23.4	24.5	24.3	29.0	28.6	23.5	24.9	24.0
8000	32.7	29.6	27.8	28.8	28.3	29.1	24.5	25.0	20.7	21.0	18.6	19.2	20.3	20.5	24.9	24.4	20.2	21.1	20.5
10000	28.4	25.1	23.5	24.5	23.9	24.8	20.2	20.7	16.5	16.7	14.4	14.7	16.0	16.5	20.5	20.0	16.8	17.1	17.0
12500	23.8	20.2	18.9	19.9	19.0	20.1	15.5	16.1	11.9	12.1	10.0	10.2	11.7	12.5	15.9	15.5	13.5	13.1	13.7
16000	18.7	15.0	13.9	14.9	13.8	15.0	10.4	11.1	7.1	7.3	5.6	5.7	7.7	8.9	11.3	11.2	10.3	9.3	10.5
20000	13.1	9.4	8.5	9.4	8.0	9.3	4.8	5.8	2.2	2.5	1.4	1.7	4.2	5.4	6.9	7.4	7.3	5.9	7.6
25000	7.0	3.3	2.5	3.4	1.8	3.0		.3					1.0	2.3	3.0	4.1	4.5	2.9	4.9

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 8F-711-001
RUN 03
AIRCRAFT CODE 711
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE G1

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MAX MIL PWR (99%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.4	75.6	73.1	73.9	73.5	73.0	59.2	69.4	66.8	65.8	65.0	66.7	68.4	68.1	72.1	71.9	74.5	67.2	67.0
250	75.3	73.5	71.0	71.8	71.4	70.9	57.1	67.3	64.6	64.7	62.9	64.6	66.3	66.1	70.0	69.8	72.3	65.1	64.9
315	73.2	71.3	68.9	69.7	69.2	68.8	65.0	65.2	62.4	62.5	60.8	62.4	64.2	64.0	67.9	67.7	70.0	62.9	62.8
400	71.1	69.2	66.7	67.6	67.1	66.7	62.8	63.0	60.1	60.4	58.6	60.3	62.0	61.8	65.8	65.6	67.7	60.8	60.7
500	68.9	67.0	64.5	65.4	64.9	64.5	60.7	60.9	57.9	58.1	56.4	58.0	59.8	59.6	63.6	63.4	65.3	58.6	58.5
630	66.7	64.7	62.3	63.2	62.7	62.3	58.4	58.7	55.5	55.9	54.2	55.7	57.5	57.3	61.3	61.1	62.9	56.4	56.3
800	64.5	62.4	60.0	60.9	60.4	60.1	56.2	56.4	53.1	53.5	51.8	53.3	55.1	54.9	58.9	58.8	60.3	54.1	54.1
1000	62.2	60.0	57.7	58.6	58.0	57.8	53.8	54.1	50.7	51.1	49.4	50.8	52.6	52.4	56.5	56.4	57.7	51.8	51.8
1250	59.8	57.6	55.2	56.1	55.6	55.4	51.4	51.7	48.1	48.5	46.8	48.2	50.0	49.8	53.9	53.9	54.9	49.3	49.4
1600	57.3	55.0	52.7	53.6	53.1	53.0	48.9	49.2	45.5	45.9	44.0	45.4	47.1	47.0	51.2	51.3	51.9	46.7	46.8
2000	54.7	52.3	50.1	51.0	50.4	50.4	46.3	46.6	42.7	43.1	41.1	42.4	44.0	43.9	48.4	48.5	48.6	43.7	43.8
2500	51.9	49.4	47.2	48.1	47.5	47.7	43.5	43.6	39.8	40.1	38.0	39.2	40.7	40.5	45.3	45.4	45.0	40.6	40.5
3150	48.7	46.1	44.0	44.9	44.4	44.7	40.3	40.7	36.6	36.9	34.6	35.7	37.1	36.9	41.9	42.0	41.1	37.1	36.8
4000	45.2	42.5	40.3	41.3	40.9	41.2	36.8	37.2	33.1	33.4	31.0	32.0	33.2	33.0	38.1	38.1	36.0	33.4	32.9
5000	41.1	38.3	36.2	37.2	36.8	37.3	32.8	33.2	29.0	29.4	27.0	27.9	29.0	28.8	33.9	33.8	30.6	29.3	28.5
6300	36.7	33.9	31.8	32.8	32.5	33.0	28.5	28.9	24.7	25.0	22.6	23.4	24.5	24.3	29.3	29.1	25.2	24.9	24.0
8000	32.7	29.6	27.8	28.6	28.3	29.1	24.5	25.0	20.7	21.0	18.6	19.2	20.3	20.5	25.0	24.7	21.0	21.1	20.5
10000	28.4	25.1	23.5	24.5	23.9	24.8	20.2	20.7	16.5	16.7	14.4	14.7	16.0	16.5	20.5	20.0	16.8	17.1	17.0
12500	23.8	20.2	18.9	19.9	19.0	20.1	15.5	16.1	11.9	12.1	10.0	10.2	11.7	12.6	15.9	15.5	13.5	13.1	13.7
16000	18.7	15.0	13.9	14.9	13.8	15.0	10.4	11.1	7.1	7.3	5.6	5.7	7.7	8.9	11.3	11.2	10.3	9.3	10.5
20000	13.1	9.4	8.5	9.4	8.0	9.3	4.8	5.8	2.2	2.5	1.4	1.7	4.2	5.4	6.9	7.4	7.3	5.9	7.6
25000	7.6	3.3	2.5	3.4	1.8	3.0		.3					1.0	2.3	3.0	4.1	4.5	2.9	4.9

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

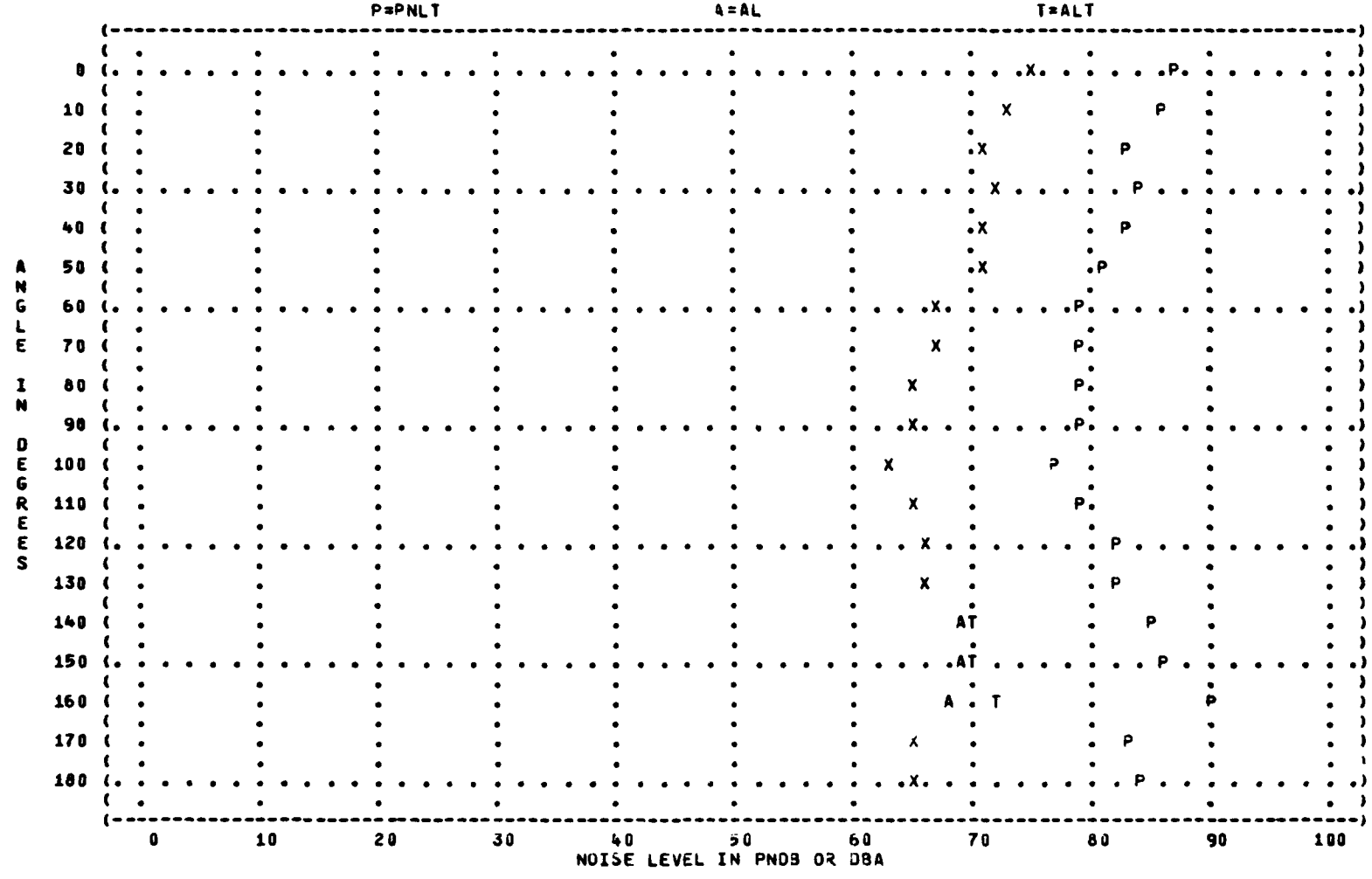
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MAX MIL PWR (99%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-711-001
RUN 03
AIRCRAFT CODE 711
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE J1



USAF HUSH HOUSE(J79-GE-15 ENG)

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(J79-GE-15 ENG)

DURING GROUND RUN-UP OPERATIONS

TEST BF-712-001
AIRCRAFT CODE: 712
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting	Page
Engine Runup, 85% RPM	196
Military Power, 100% RPM	202

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-712-001
RUN 01
AIRCRAFT CODE 712
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE C2

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	53	51<	51	53	53<	56	55	59	62	62	60	60	60	64	66	68	68	68	68
63	53	51	52	54	53	56	53	56	62	61	58	60	58	60	66	72	72	72	72
80	56	54	51	53	52	55	52	53	59	59	60	60	63	58	60	62	62	62	62
100	57	55	53	54	55	55	58	52	57	62	60	57	58	57	60	62	62	62	62
125	57	54	51<	53	53	54	56	52	59	62	58	55	57	62	63	64	64	64	64
160	58	54	49	52	54	56	55	50	54	56	54	54	55	54	61	67	67	67	67
200	54	53	53	52	48	53	49	45	47	50	50	51	54	54	56	59	59	59	59
250	55	54	56	52	53	54	47	46	47	50	49	48	51	54	54	53	53	53	53
315	52	46	48	50	49	50	41	42	45	43	43	43	46	48	49	51	51	51	51
400	47	47	42	52	41	47	38	42	45	41	42	40	48	48	50	52	52	52	52
500	44	40	43	53	40	52	37	46	48	39	39	37	46	47	48	50	50	50	50
630	44	39	40	52	39	50	38	47	42	42	39	38	46	44	47	49	49	49	49
800	44	40	39	56	39	52	39	50	42	46	42	41	45	45	47	49	49	49	49
1000	40	38	37	51	40	49	42	54	44	42	40	40	45	46	47	49	49	49	49
1250	37	36	36	47	38	47	38	49	42	39	36	37	42	43	44	46	46	46	46
1600	42	41	41	44	42	43	39	49	42	40	35	36	41	46	45	45	45	45	45
2000	54	54	53	54	54	50	47	49	47	45	41	42	43	49	47	45	45	45	45
2500	56	56	55	56	56	52	49	46	50	48	44	44	44	46	45	44	44	44	44
3150	50<	50<	49<	50<	50<	46<	43<	40<	41	39	35	35	38	43	44	45	45	45	45
4000	44<	44<	43<	44<	44<	40<	37<	34<	41	38	34	34	36	39	41	43	43	43	43
5000	38<	38<	37<	38<	38<	34<	31<	28<	44	41	35	35	36	39	41	43	43	43	43
6300	32<	32<	31<	32<	32<	28<	25<	22<	39	38	34	34	34	38	39	40	40	40	40
8000	26<	26<	25<	26<	26<	22<	19<	16<	39	37	34	34	34	37	38	39	39	39	39
10000	20<	20<	19<	20<	20<	16<	13<	10<	37	35	32	33	31	35	35	35	35	35	35
OVERALL	66	64	63	66	64	66	64	64	63	69	67	66	68	69	72	75	75	75	75

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-712-001
RUN 01
AIRCRAFT CODE 712
OPERATION CODE 00115
PROFILE VERSION A
20 NOV 81
PAGE D2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.5	76.7	76.2	78.6	76.4	76.2	71.2	71.9	74.6	73.2	69.8	69.7	71.6	73.8	74.6	77.8	77.8	77.8	77.8
250	75.2	74.5	73.9	76.3	74.1	73.9	68.9	69.6	72.3	70.9	67.5	67.3	69.3	71.5	72.3	75.4	75.4	75.4	75.4
315	72.9	72.1	71.5	74.0	71.8	71.6	66.5	67.3	69.9	68.5	65.0	64.9	67.0	69.2	69.9	73.1	73.1	73.1	73.1
400	70.5	69.7	69.1	71.6	69.3	69.2	64.1	65.0	67.4	66.0	62.5	62.4	64.5	66.7	67.5	70.6	70.6	70.6	70.6
500	67.9	67.1	66.5	69.1	66.7	66.8	61.5	62.5	64.7	63.4	59.7	59.6	61.9	64.2	64.9	68.0	68.0	68.0	68.0
630	65.3	64.4	63.8	66.6	64.1	64.2	58.6	59.8	61.9	60.5	56.8	56.6	59.1	61.4	62.1	65.2	65.2	65.2	65.2
800	62.4	61.6	61.0	63.8	61.2	61.4	55.6	57.1	58.9	57.4	53.6	53.4	56.0	58.4	59.2	62.2	62.2	62.2	62.2
1000	59.4	58.5	57.8	60.8	58.1	58.3	52.5	54.2	55.6	54.1	50.1	50.0	52.6	55.3	55.9	58.9	58.9	58.9	58.9
1250	56.0	55.1	54.5	57.6	54.7	55.1	48.9	50.7	52.1	50.4	46.0	45.9	48.8	51.8	52.2	55.2	55.2	55.2	55.2
1600	52.3	51.4	50.8	54.0	51.0	51.5	44.5	46.6	48.1	45.8	41.5	41.2	44.7	47.5	48.1	50.8	50.8	50.8	50.8
2000	48.0	46.8	46.4	50.0	46.4	47.2	39.6	42.2	42.8	40.8	35.6	35.3	38.7	42.7	43.6	45.9	45.9	45.9	45.9
2500	42.6	41.4	40.9	45.4	41.1	42.3	32.2	37.9	36.7	33.9	27.1	25.8	33.6	37.3	37.9	40.6	40.6	40.6	40.6
3150	36.1	34.0	33.9	40.0	33.6	38.0	24.7	33.0	30.0	24.4	17.1	16.4	25.0	30.2	30.3	33.2	33.2	33.2	33.2
4000	27.1	27.1	26.5	33.5	26.9	32.0	15.7	27.7	19.5	15.6	7.1	7.0	16.0	21.7	21.5	24.1	24.1	24.1	24.1
5000	17.5	17.5	16.7	26.0	17.2	24.5	6.6	16.1	7.0	5.7			7.1	13.3	12.8	14.1	14.1	14.1	14.1
6300	7.9	7.9	6.9	13.0	7.5	13.6		7.8						4.8	4.0	4.2	4.2	4.2	4.2
8000						2.7													
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-712-001
RUN 01
AIRCRAFT CODE 712
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	79.4	78.7	78.1	80.5	78.3	77.6	72.8	73.3	76.7	75.1	71.9	71.7	72.9	74.3	74.6	78.8	78.8	78.8	78.8
250	77.1	76.4	75.8	78.2	76.0	75.3	70.5	71.1	74.3	72.8	69.5	69.4	70.6	72.6	72.3	76.5	76.5	76.5	76.5
315	74.8	74.1	73.4	76.0	73.7	73.0	68.1	68.8	72.0	70.4	67.1	66.9	68.3	70.2	69.9	74.1	74.1	74.1	74.1
400	72.4	71.7	71.0	73.6	71.2	70.6	65.7	66.4	69.5	67.9	64.6	64.4	65.9	67.8	67.5	71.7	71.7	71.7	71.7
500	69.9	69.1	68.4	71.1	68.6	68.2	63.1	63.9	66.8	65.2	61.8	61.6	63.2	65.2	64.9	69.0	69.0	69.0	69.0
630	67.2	66.4	65.7	68.5	65.9	65.6	60.3	61.2	64.0	62.4	58.9	58.6	60.4	62.5	62.1	66.2	66.2	66.2	66.2
800	64.3	63.5	62.9	65.7	63.0	62.8	57.2	58.5	61.0	59.3	55.7	55.5	57.3	59.5	59.2	63.2	63.2	63.2	63.2
1000	61.3	60.5	59.7	62.8	60.0	59.7	54.1	55.6	57.7	56.0	52.2	52.0	53.9	56.4	55.9	59.9	59.9	59.9	59.9
1250	57.9	57.1	56.4	59.5	56.6	56.5	50.5	52.1	54.2	52.3	48.1	48.0	50.1	52.9	52.2	56.2	56.2	56.2	56.2
1600	54.2	53.4	52.7	56.0	52.9	52.9	46.2	48.2	50.2	47.7	43.6	43.2	46.0	48.6	48.1	51.8	51.8	51.8	51.8
2000	50.0	48.8	48.3	52.0	48.3	48.6	41.3	43.7	44.9	42.7	37.7	37.3	41.0	43.8	43.6	46.9	46.9	46.9	46.9
2500	44.5	43.4	42.8	47.4	43.0	43.7	33.8	39.4	38.8	35.8	29.1	27.8	34.9	38.4	37.9	41.6	41.6	41.6	41.6
3150	38.0	35.9	35.8	41.9	35.5	39.4	26.4	34.5	32.1	26.3	19.2	18.4	26.3	31.3	30.3	34.3	34.3	34.3	34.3
4000	28.7	25.7	28.0	35.0	28.4	33.1	17.0	28.9	21.2	17.1	8.8	8.6	17.1	22.6	21.5	24.9	24.9	24.9	24.9
5000	18.7	18.7	17.8	27.2	18.4	25.4	7.6	17.0	8.2	7.8			7.8	13.9	12.8	14.7	14.7	14.7	14.7
6300	8.7	8.7	7.6	13.8	8.3	14.2		8.3						5.2	4.0	4.6	4.6	4.6	4.6
8000				.3		3.0													
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-712-001
RUN 01
AIRCRAFT CODE 712
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE F2

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	63.1	62.7	62.2	65.1	62.5	63.0	56.7	60.9	58.9	57.8	54.7	54.4	57.3	59.4	60.4	62.3	62.3	62.3	62.3
250	60.9	60.5	60.1	62.9	60.3	60.9	54.6	58.8	56.7	55.7	52.6	52.3	55.2	57.3	58.2	60.2	60.2	60.2	60.2
315	58.7	58.3	57.8	60.8	58.1	58.8	52.4	56.7	54.5	53.5	50.5	50.1	53.1	55.1	56.1	58.1	58.1	58.1	58.1
400	56.4	56.0	55.5	58.5	56.8	56.6	50.1	54.5	52.2	51.2	48.3	47.9	50.9	52.9	53.9	55.9	55.9	55.9	55.9
500	54.0	53.6	53.2	56.3	53.4	54.4	47.8	52.3	49.9	48.9	46.0	45.6	48.7	50.7	51.6	53.6	53.6	53.6	53.6
630	51.6	51.1	50.7	53.9	50.9	52.1	45.3	50.1	47.5	46.5	43.6	43.2	46.4	48.3	49.3	51.3	51.3	51.3	51.3
800	49.0	48.5	48.1	51.5	48.3	49.7	42.8	47.7	44.9	44.0	41.1	40.7	44.0	45.8	46.8	48.8	48.8	48.8	48.8
1000	46.3	45.7	45.3	49.0	45.5	47.3	40.1	45.3	42.3	41.3	38.5	38.1	41.5	43.3	44.3	46.3	46.3	46.3	46.3
1250	43.3	42.8	42.3	46.3	42.6	44.7	37.2	42.8	39.6	38.5	35.7	35.3	38.9	40.5	41.6	43.6	43.6	43.6	43.6
1600	40.2	39.6	39.1	43.6	39.4	42.1	34.1	40.2	36.7	35.5	32.8	32.3	36.2	37.7	38.8	40.7	40.7	40.7	40.7
2000	36.8	36.2	35.7	40.7	35.9	39.3	30.9	37.4	33.6	32.3	29.6	29.1	33.3	34.7	35.9	37.7	37.7	37.7	37.7
2500	33.1	32.4	31.9	37.6	32.1	36.4	27.3	34.5	30.3	28.9	26.2	25.6	30.2	31.4	32.6	34.4	34.4	34.4	34.4
3150	29.1	28.2	27.7	34.3	28.0	33.3	23.5	31.3	26.7	25.3	22.5	21.9	26.7	27.8	29.1	30.9	30.9	30.9	30.9
4000	24.6	23.6	23.1	30.7	23.3	29.8	19.3	27.9	22.7	21.4	18.6	17.9	23.0	23.3	25.3	27.1	27.1	27.1	27.1
5000	19.6	18.4	18.0	26.6	18.2	25.7	14.8	24.0	18.3	17.3	14.4	13.7	18.8	19.7	21.2	23.0	23.0	23.0	23.0
6300	14.4	12.8	12.4	22.2	12.6	21.3	10.0	19.8	13.7	12.8	10.0	9.2	14.5	15.2	16.7	18.6	18.6	18.6	18.6
8000	9.7	7.5	7.1	18.2	7.1	17.4	5.5	15.5	9.6	8.8	6.1	5.1	10.6	11.1	12.8	14.8	14.8	14.8	14.8
10000	5.1	2.4	2.2	13.8	1.7	13.2	.9	10.6	5.3	4.5	2.0	1.0	0.4	6.8	8.6	10.8	10.8	10.8	10.8
12500	.7			9.0		8.5		5.3	.9	.2			2.0	2.3	4.2	6.5	6.5	6.5	6.5
16000				3.8		3.4										2.3	2.3	2.3	2.3
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-712-001
RUN 01
AIRCRAFT CODE 712
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE G2

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	65.0	64.7	64.2	67.0	64.4	64.4	58.3	62.4	61.0	59.7	56.8	56.4	58.6	60.5	60.4	63.3	63.3	63.3	63.3
250	62.8	62.5	62.0	64.9	62.2	62.3	56.2	60.2	58.8	57.5	54.7	54.3	56.5	58.4	58.2	61.2	61.2	61.2	61.2
315	60.6	60.2	59.7	62.7	60.0	60.2	54.0	58.1	56.6	55.4	52.5	52.1	54.4	56.2	56.1	59.1	59.1	59.1	59.1
400	58.3	57.9	57.4	60.5	57.6	58.0	51.7	55.9	54.3	53.1	50.4	49.9	52.2	54.0	53.9	56.9	56.9	56.9	56.9
500	55.9	55.6	55.1	58.2	55.3	55.8	49.4	53.7	52.0	50.8	48.1	47.6	50.0	51.7	51.6	54.7	54.7	54.7	54.7
630	53.5	53.1	52.6	55.9	52.8	53.6	47.0	51.5	49.9	48.4	45.7	45.2	47.7	49.4	49.3	52.3	52.3	52.3	52.3
800	50.9	50.5	50.0	53.4	50.2	51.1	44.4	49.1	47.0	45.9	43.2	42.7	45.3	46.9	46.8	49.8	49.8	49.8	49.8
1000	48.2	47.7	47.2	50.9	47.4	48.7	41.7	46.7	44.4	43.2	40.6	40.1	42.9	44.3	44.3	47.3	47.3	47.3	47.3
1250	45.2	44.8	44.2	48.3	44.4	46.1	38.8	44.2	41.7	40.4	37.8	37.3	40.2	41.5	41.6	44.6	44.6	44.6	44.6
1600	42.1	41.6	41.1	45.5	41.3	43.5	35.8	41.6	38.8	37.4	34.9	34.3	37.5	38.8	38.8	41.7	41.7	41.7	41.7
2000	38.8	38.2	37.6	42.7	37.8	40.7	32.5	38.8	35.7	34.2	31.7	31.1	34.6	35.8	35.9	38.7	38.7	38.7	38.7
2500	35.0	34.4	33.8	39.6	34.0	37.8	29.0	35.9	32.4	30.8	28.3	27.6	31.5	32.5	32.6	35.4	35.4	35.4	35.4
3150	31.0	30.2	29.6	36.3	29.9	34.7	25.1	32.8	28.7	27.2	24.6	23.9	28.0	28.9	29.1	31.9	31.9	31.9	31.9
4000	26.1	25.1	24.6	32.3	24.8	30.9	20.6	29.0	24.3	23.0	20.3	19.5	24.0	24.8	25.3	27.9	27.9	27.9	27.9
5000	20.8	19.6	19.1	27.8	19.4	26.5	15.8	24.9	19.6	18.4	15.7	14.9	19.6	20.3	21.2	23.6	23.6	23.6	23.6
6300	15.1	13.6	13.1	23.0	13.4	21.9	10.7	20.4	14.6	13.5	10.8	10.0	15.0	15.5	16.7	19.0	19.0	19.0	19.0
8000	10.0	7.8	7.5	19.6	7.5	17.7	5.8	15.7	10.0	9.1	6.5	5.5	10.8	11.3	12.8	15.0	15.0	15.0	15.0
10000	5.1	2.4	2.2	13.8	1.7	13.2	.9	10.6	5.3	4.5	2.0	1.0	6.4	6.8	8.6	10.8	10.8	10.8	10.8
12500	.7			9.0		8.5		5.3	.9	.2			2.0	2.3	4.2	6.5	6.5	6.5	6.5
16000				3.8		3.4										2.3	2.3	2.3	2.3
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-712-001
RUN 01
AIRCRAFT CODE 712
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE J2

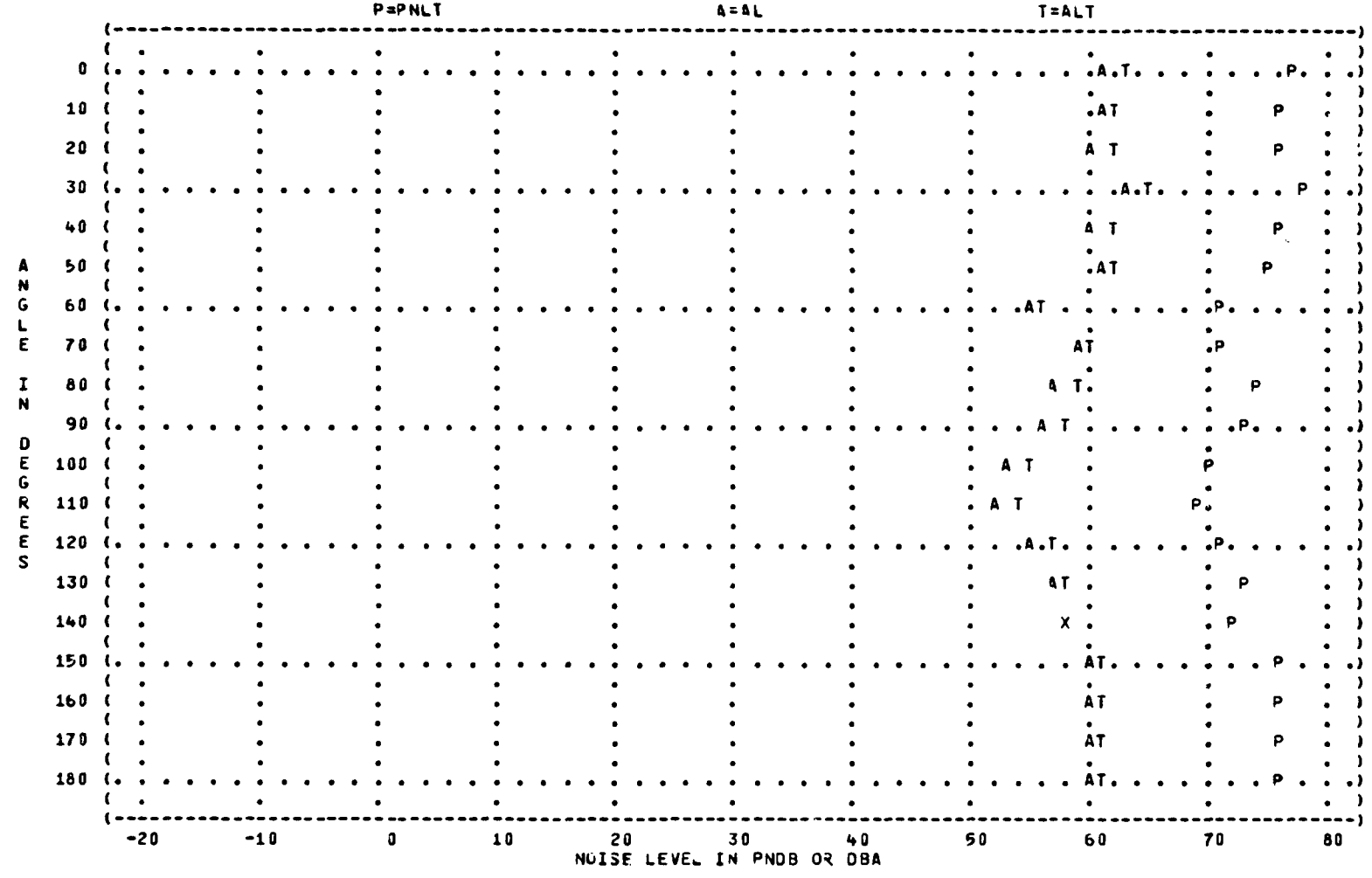


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-712-001
RUN 02
AIRCRAFT CODE 712
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE C1

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER(100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	63	59	62	61	64	65	64	68	68	72	73	73	77	79	82	84	84	84	84
63	58	56	55	57	57	59	57	62	61	68	73	74	75	74	76	78	78	78	78
80	58	56	54	55	56	56	55	58	60	68	69	68	72	72	72	72	72	72	72
100	60	59	57	58	59	58	55	58	57	66	69	68	69	68	68	68	68	68	68
125	59	56	55	55	56	56	52	55	53	63	65	65	66	65	64	64	64	64	64
160	59	56	53	55	56	56	52	52	50	60	62	63	65	68	65	62	62	62	62
200	56	53	52	52	51	53	48	49	49	57	63	62	68	69	66	63	63	63	63
250	55	52	55	52	54	54	48	49	48	56	62	59	65	69	68	67	67	67	67
315	52	49	49	47	47	50	43	43	42	52	56	54	57	59	59	59	59	59	59
400	52	50	48	49	46	47	44	45	40	50	53	50	58	55	55	56	56	56	56
500	57	58	56	56	54	56	53	56	48	53	53	52	57	55	56	57	57	57	57
630	57	55	53	54	53	57	53	51	49	56	55	55	58	55	57	59	59	59	59
800	57	55	52	54	53	55	55	52	49	58	57	55	58	55	57	58	58	58	58
1000	54	54	51	53	52	52	50	51	46	54	57	53	57	55	57	59	59	59	59
1250	54	54	52	53	52	52	52	49	46	53	54	55	57	57	59	61	61	61	61
1600	54	54	53	53	52	52	51	49	47	53	52	54	58	57	58	60	60	60	60
2000	50	50	48	49	48	45	44	44	44	49	52	54	58	58	57	56	56	56	56
2500	47	45	43	45	45	42	40	39	41	48	50	50	56	53	54	54	54	54	54
3150	50	46	42	41	42	40	38	37	41	47	48	50	53	52	53	54	54	54	54
4000	52	48	42	39	41	38	36	37	40	46	45	47	51	49	51	53	53	53	53
5000	52	45	41	40	42	39	36	37	41	46	45	47	51	49	50	52	52	52	52
6300	51	44	39	39	42	39	36	36	40	45	43	46	51	47	49	50	50	50	50
8000	54	47	41	40	41	40	38	41	42	44	42	42	49	46	47	49	49	49	49
10000	52	45	40	38	39	37	34	34	37	41	39	45	47	42	43	44	44	44	44
OVERALL	70	68	67	67	68	69	67	70	70	76	78	78	81	82	84	86	86	86	86

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-712-001
RUN 02
AIRCRAFT CODE 712
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE 01

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER(100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	80.9	78.0	75.7	76.0	75.8	75.5	73.3	73.6	72.1	79.2	80.7	81.2	85.3	84.3	85.2	86.8	86.8	86.8	86.8
250	78.5	75.7	73.4	73.7	73.5	73.2	71.0	71.3	69.8	76.9	78.4	78.8	83.0	82.5	82.7	84.2	84.2	84.2	84.2
315	76.0	73.3	71.1	71.4	71.1	70.9	68.7	69.0	67.4	74.5	76.0	76.5	80.6	80.3	80.4	81.7	81.7	81.7	81.7
400	73.4	70.9	68.7	69.0	68.7	68.5	66.3	66.7	64.9	72.2	73.5	74.1	78.2	77.9	78.0	79.1	79.1	79.1	79.1
500	70.7	68.4	66.2	66.5	66.2	66.0	63.7	64.1	62.3	69.7	71.0	71.6	75.7	75.4	75.5	76.4	76.4	76.4	76.4
630	67.8	65.7	63.6	63.9	63.5	63.4	61.1	61.5	59.4	67.1	68.4	69.0	73.1	72.8	72.8	73.7	73.7	73.7	73.7
800	64.7	62.9	60.8	61.1	60.8	60.6	58.3	58.8	56.5	64.4	65.7	66.2	70.4	69.9	69.9	70.9	70.9	70.9	70.9
1000	61.7	60.0	57.7	58.1	57.8	57.7	55.3	55.9	53.1	61.5	62.8	63.3	67.5	66.9	67.1	68.1	68.1	68.1	68.1
1250	58.4	56.8	54.4	55.0	54.5	54.7	52.0	52.7	49.3	58.3	59.6	60.0	64.3	63.8	64.0	65.0	65.0	65.0	65.0
1600	54.8	53.3	51.0	51.5	50.7	51.2	48.1	49.4	44.9	54.9	55.9	56.3	60.9	60.3	60.6	61.6	61.6	61.6	61.6
2000	50.8	49.8	47.0	47.3	46.6	47.4	43.8	45.0	39.6	51.0	52.0	52.1	56.9	56.3	56.7	57.8	57.8	57.8	57.8
2500	46.5	45.4	42.6	43.0	41.6	43.2	39.8	40.8	34.6	46.4	47.5	47.2	52.4	51.5	52.2	53.5	53.5	53.5	53.5
3150	41.2	40.4	37.8	38.1	36.5	38.9	35.7	36.4	29.2	40.9	42.3	41.2	46.9	46.0	46.9	48.1	48.1	48.1	48.1
4000	35.9	35.4	32.0	33.3	31.3	33.5	30.8	30.9	21.7	35.7	36.2	34.7	40.3	39.3	40.1	42.0	42.0	42.0	42.0
5000	29.0	29.0	24.4	25.5	23.1	27.7	24.4	23.0	10.4	29.2	29.2	26.7	33.7	31.0	33.3	35.3	35.3	35.3	35.3
6300	19.3	19.2	13.8	14.8	12.3	17.8	13.3	13.3		20.1	19.1	15.2	25.2	21.0	24.0	27.6	27.6	27.6	27.6
8000	11.8	9.3	3.3	4.1	1.5	8.5	2.2	3.7		12.3	9.3	3.7	14.4	11.0	10.4	16.3	16.3	16.3	16.3
10000	4.3									4.4			3.5	1.1		5.0	5.0	5.0	5.0
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 8F-712-001
RUN 02
AIRCRAFT CODE 712
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE E1

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER(100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	80.9	79.4	77.5	77.2	77.3	76.7	74.9	75.8	72.8	79.2	80.7	82.3	85.3	85.8	86.1	87.7	87.7	87.7	87.7
250	78.5	77.1	75.1	75.0	75.0	74.5	72.2	73.5	70.4	76.9	78.4	80.0	83.0	83.5	83.6	85.2	85.2	85.2	85.2
315	76.0	74.8	72.8	72.6	72.6	72.1	69.9	71.2	68.0	74.5	76.0	77.6	80.6	81.2	81.3	82.7	82.7	82.7	82.7
400	73.4	72.3	70.4	70.3	70.2	69.7	67.5	68.9	65.5	72.2	73.5	75.2	78.2	78.8	78.9	80.1	80.1	80.1	80.1
500	70.7	69.8	67.9	67.8	67.8	67.3	64.9	66.4	62.9	69.7	71.0	72.7	75.7	76.3	76.4	77.4	77.4	77.4	77.4
630	67.8	67.2	65.3	65.1	65.1	64.6	62.3	63.7	60.1	67.1	68.4	70.1	73.1	73.6	73.7	74.7	74.7	74.7	74.7
800	64.7	64.3	62.5	62.4	62.3	61.8	59.5	61.0	57.1	64.4	65.7	67.4	70.4	70.8	70.9	71.8	71.8	71.8	71.8
1000	61.7	61.4	59.4	59.4	59.3	59.0	56.5	58.1	53.8	61.5	62.8	64.4	67.5	67.8	68.0	69.0	69.0	69.0	69.0
1250	58.4	58.2	56.1	56.3	56.1	56.0	53.2	54.9	50.0	58.3	59.6	61.2	64.3	64.5	64.9	66.0	66.0	66.0	66.0
1600	54.6	54.8	52.7	52.8	52.2	52.4	49.3	51.6	45.6	54.9	55.9	57.5	60.9	61.1	61.5	62.6	62.6	62.6	62.6
2000	50.8	51.2	48.7	48.5	48.1	48.7	45.0	47.2	40.2	51.0	52.0	53.3	56.9	57.1	57.6	58.8	58.8	58.8	58.8
2500	46.5	46.8	44.3	44.3	43.2	44.4	41.0	43.0	35.2	46.4	47.5	48.4	52.4	52.5	53.2	54.5	54.5	54.5	54.5
3150	41.2	41.8	39.5	39.4	38.1	40.2	36.9	38.6	29.8	40.9	42.3	42.3	46.9	46.9	47.8	49.1	49.1	49.1	49.1
4000	35.9	36.6	33.3	34.4	32.5	34.5	31.8	32.7	22.2	35.7	36.2	35.6	40.3	40.0	40.9	42.8	42.8	42.8	42.8
5000	29.0	29.9	28.4	28.3	24.0	28.5	25.1	24.3	10.8	29.2	29.2	27.4	33.7	31.5	33.9	35.9	35.9	35.9	35.9
6300	19.3	19.7	14.5	15.3	12.9	18.3	13.8	14.2		20.1	19.1	15.7	25.2	21.4	24.4	28.0	28.0	28.0	28.0
8000	11.8	9.5	3.7	4.4	1.8	8.8	2.4	4.2		12.3	9.3	4.0	14.4	11.2	10.6	16.5	16.5	16.5	16.5
10000	4.3									4.4			3.5	1.1		5.0	5.0	5.0	5.0
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-712-001
RUN 02
AIRCRAFT CODE 712
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE F1

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER(100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.2	65.6	63.3	64.1	63.4	64.1	62.2	61.6	58.8	66.1	67.0	66.6	70.6	70.1	70.4	71.3	71.3	71.3	71.3
250	64.9	63.5	61.1	62.0	61.2	62.0	60.1	59.5	56.7	63.9	64.9	64.5	68.5	68.0	68.3	69.2	69.2	69.2	69.2
315	62.7	61.4	59.0	59.8	59.1	59.9	58.0	57.4	54.5	61.8	62.8	62.3	66.3	65.8	66.2	67.0	67.0	67.0	67.0
400	60.3	59.2	56.8	57.7	56.9	57.7	55.9	55.3	52.3	59.6	60.6	60.1	64.1	63.7	64.0	64.9	64.9	64.9	64.9
500	58.0	56.9	54.6	55.5	54.7	55.6	53.7	53.1	50.0	57.4	58.4	57.9	61.8	61.4	61.7	62.6	62.6	62.6	62.6
630	55.6	54.7	52.4	53.2	52.5	53.3	51.5	50.9	47.7	55.2	56.1	55.6	59.5	59.0	59.4	60.3	60.3	60.3	60.3
800	53.2	52.3	50.1	50.9	50.1	51.1	49.2	48.6	45.3	52.8	53.8	53.1	57.0	56.5	57.0	57.9	57.9	57.9	57.9
1000	50.7	50.0	47.7	48.6	47.8	48.8	46.9	46.3	42.9	50.5	51.3	50.7	54.5	53.9	54.5	55.5	55.5	55.5	55.5
1250	48.1	47.5	45.2	46.1	45.3	46.4	44.5	43.9	40.4	48.0	48.8	48.0	51.9	51.2	51.8	52.9	52.9	52.9	52.9
1600	45.5	45.0	42.6	43.6	42.7	43.9	42.0	41.5	37.8	45.4	46.0	45.3	49.1	48.3	49.0	50.2	50.2	50.2	50.2
2000	42.8	42.3	40.0	41.0	40.0	41.3	39.4	38.9	35.0	42.6	43.2	42.3	46.2	45.2	46.1	47.3	47.3	47.3	47.3
2500	39.9	39.5	37.1	38.1	37.2	38.5	36.7	36.2	32.1	39.8	40.2	39.2	43.0	41.9	42.9	44.2	44.2	44.2	44.2
3150	36.8	36.4	33.9	35.0	34.1	35.5	33.6	33.0	29.0	36.7	36.9	35.9	39.7	38.3	39.4	40.8	40.8	40.8	40.8
4000	33.3	32.9	30.4	31.5	30.6	32.1	30.2	29.5	25.5	33.3	33.4	32.2	36.9	34.4	35.7	37.2	37.2	37.2	37.2
5000	29.3	28.9	26.3	27.5	26.6	28.1	26.4	25.5	21.5	29.4	29.5	28.2	31.8	30.2	31.6	33.1	33.1	33.1	33.1
6300	25.0	24.6	22.0	23.2	22.3	23.8	22.1	21.3	17.2	25.1	25.2	23.8	27.4	25.7	27.1	28.7	28.7	28.7	28.7
8000	21.0	20.6	18.0	19.2	18.2	19.9	18.1	17.4	13.1	21.1	21.2	19.7	23.3	21.5	23.0	24.5	24.5	24.5	24.5
10000	16.7	16.2	13.6	14.8	13.8	15.7	13.7	13.2	8.8	16.7	16.8	15.3	18.9	17.2	18.5	20.0	20.0	20.0	20.0
12500	12.0	11.5	8.9	10.0	9.0	11.0	8.8	8.7	4.1	12.0	12.1	10.6	14.3	12.8	13.9	15.3	15.3	15.3	15.3
16000	6.8	6.3	3.8	4.8	3.7	5.8	3.5	3.7		6.7	7.1	5.8	9.5	8.5	9.4	10.6	10.6	10.6	10.6
20000	1.1	.6				.1				1.3	2.0	1.1	4.6	4.3	5.0	6.3	6.3	6.3	6.3
25000													.1	.4	1.1	2.5	2.5	2.5	2.5

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-712-001
RUN 02
AIRCRAFT CODE 712
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE G1

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER(100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.2	67.1	65.0	65.3	64.9	65.3	63.4	63.8	59.5	66.1	67.0	67.8	70.6	70.9	71.3	72.3	72.3	72.3	72.3
250	64.9	65.0	62.9	63.2	62.8	63.2	61.3	61.7	57.3	63.9	64.9	65.6	68.5	68.8	69.2	70.2	70.2	70.2	70.2
315	62.7	62.8	60.7	61.1	60.6	61.1	59.2	59.6	55.1	61.8	62.8	63.5	66.3	66.7	67.1	68.0	68.0	68.0	68.0
400	60.3	60.6	58.6	58.9	58.5	59.0	57.1	57.5	52.9	59.6	60.6	61.3	64.1	64.5	64.9	65.8	65.8	65.8	65.8
500	58.0	58.4	56.3	56.7	56.3	56.8	54.9	55.3	50.6	57.4	58.4	59.0	61.8	62.3	62.7	63.6	63.6	63.6	63.6
630	55.6	56.1	54.1	54.5	54.0	54.6	52.7	53.1	48.3	55.2	56.1	56.7	59.5	59.9	60.3	61.3	61.3	61.3	61.3
800	53.2	53.8	51.8	52.2	51.7	52.3	50.4	50.8	46.0	52.8	53.8	54.3	57.0	57.4	57.9	58.9	58.9	58.9	58.9
1000	50.7	51.4	49.4	49.9	49.3	50.0	48.1	48.5	43.5	50.5	51.3	51.8	54.5	54.8	55.4	56.4	56.4	56.4	56.4
1250	48.1	49.0	46.9	47.4	46.8	47.6	45.7	46.1	41.0	48.0	48.8	49.2	51.9	52.1	52.7	53.9	53.9	53.9	53.9
1600	45.5	46.4	44.4	44.9	44.3	45.1	43.2	43.7	38.4	45.4	46.0	46.4	49.1	49.2	49.9	51.2	51.2	51.2	51.2
2000	42.8	43.6	41.7	42.2	41.6	42.5	40.6	41.1	35.6	42.6	43.2	43.5	46.2	46.1	47.0	48.3	48.3	48.3	48.3
2500	39.9	41.0	38.8	39.4	38.7	39.8	37.8	38.4	32.7	39.8	40.2	40.4	43.0	42.7	43.8	45.2	45.2	45.2	45.2
3150	36.8	37.8	35.6	36.3	35.6	36.8	34.8	35.2	29.6	36.7	36.9	37.0	39.7	39.1	40.3	41.8	41.8	41.8	41.8
4000	33.3	34.0	31.7	32.5	31.8	33.1	31.2	31.3	26.0	33.3	33.4	33.2	35.9	35.1	36.4	38.0	38.0	38.0	38.0
5000	29.3	29.8	27.4	28.3	27.5	28.9	27.1	26.9	21.9	29.4	29.5	28.9	31.8	30.7	32.1	33.7	33.7	33.7	33.7
6300	25.0	25.2	22.7	23.7	22.9	24.3	22.6	22.2	17.4	25.1	25.2	24.2	27.4	26.0	27.5	29.1	29.1	29.1	29.1
8000	21.0	20.9	18.3	19.4	18.5	20.2	18.3	17.9	13.3	21.1	21.2	19.9	23.3	21.7	23.1	24.7	24.7	24.7	24.7
10000	16.7	16.2	13.6	14.8	13.8	15.7	13.7	13.2	8.8	16.7	16.8	15.3	18.9	17.2	18.5	20.0	20.0	20.0	20.0
12500	12.0	11.5	8.9	10.0	9.0	11.0	8.8	8.7	4.1	12.0	12.1	10.6	14.3	12.8	13.9	15.3	15.3	15.3	15.3
16000	6.8	6.3	3.8	4.8	3.7	5.8	3.5	3.7		6.7	7.1	5.8	9.5	8.5	9.4	10.6	10.6	10.6	10.6
20000	1.1	.6				.1				1.3	2.0	1.1	4.6	4.3	5.0	6.3	6.3	6.3	6.3
25000													.1	.4	1.1	2.5	2.5	2.5	2.5

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

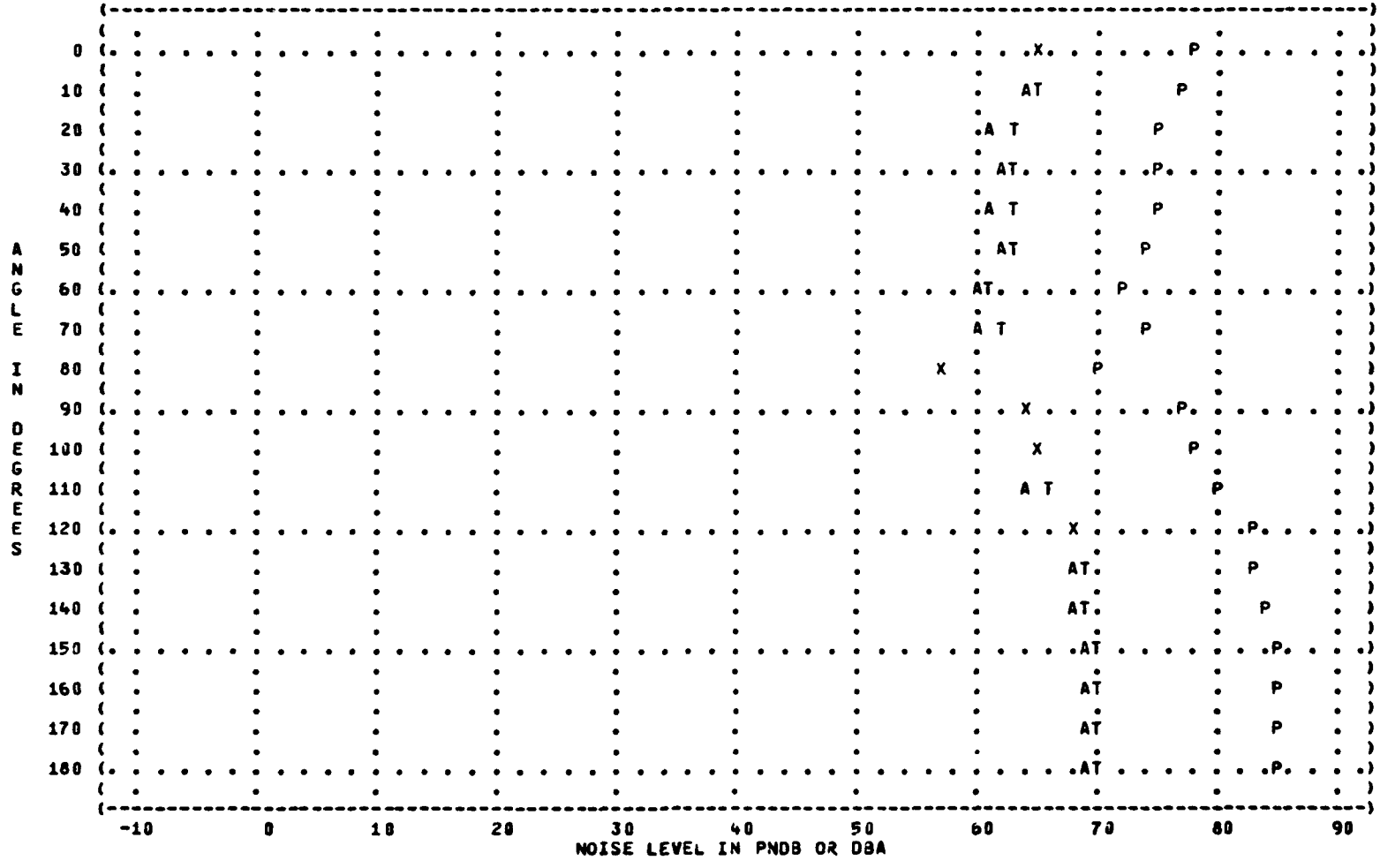
NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER(100%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-712-001
RUN 02
AIRCRAFT CODE 712
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE J1

P=PNLT A=AL T=ALT



USAF HUSH HOUSE(F100-PW-100)

NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(F100-PW-100)

DURING GROUND RUN-UP OPERATIONS

TEST BF-714-001
AIRCRAFT CODE: 714
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting	Page
Engine Runup, 80% RPM	209
Military Power, 92% RPM	215
Afterburner Power, 92% RPM	221

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 01
AIRCRAFT CODE 714
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE C3

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUM&D = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	62	59	63	59	60	59	58	63	61	60	59	60	63	61	69	69	70	65	65
63	61	61	62	60	60	61	59	60	60	60	58	60	62	60	69	67	67	65	66
80	59	58	61	59	59	59	58	61	58	58	58	60	59	59	65	65	63	62	63
100	63	62	63	62	61	60	61	62	61	60	58	59	61	59	74	74	71	70	69
125	64	63	62	61	61	62	62	62	60	59	58	61	62	59	70	70	68	67	67
160	65	64	60	58	59	60	57	58	55	55	53	55	57	55	62	60	59	60	63
200	60	62	61	58	56	58	52	52	51	50	48	51	52	54	56	52	55	53	58
250	65	61	64	58	57	60	50	54	50	49	47	50	54	54	55	53	53	52	60
315	61	58	54	53	48	50	45	47	43	43	43	48	48	51	54	49	52	53	53
400	56	54	52	49	42	46	41	41	39	39	42	44	46	50	50	49	51	52	50
500	52	47	50	46	42	43	40	37	37	38	42	44	45	44	49	48	50	52	50
630	51	48	48	45	43	44	42	38	39	42	44	47	45	43	51	48	49	49	49
800	50	49	45	42	42	44	42	40	40	43	43	46	45	44	52	48	47	48	47
1000	46	45	45	42	42	44	41	39	37	44	40	46	44	43	51	47	47	47	47
1250	47	46	46	44	44	45	43	41	37	40	38	43	43	41	50	45	45	45	45
1600	48	48	47	46	46	46	43	40	40	41	36	41	43	42	48	43	44	45	46
2000	47	48	48	47	44	45	42	40	39	40	40	42	43	43	47	43	44	47	51
2500	48	49	48	47	45	44	43	41	41	46	42	44	45	44	48	44	45	47	50
3150	53	54	52	52	47	47	45	46	44	45	45	48	46	47	52	47	50	52	56
4000	49	51	47	47	43	43	41	42	42	45	40	43	41	43	48	43	46	50	51
5000	54	59	54	54	52	51	53	56	55	56	44	56	44	45	47	42	44	46	48
6300	49	48	45	44	41	42	41	43	43	43	36	45	38	40	45	40	43	45	50
8000	50	51	47	46	42	42	41	42	43	47	37	38	37	39	45	38	42	44	48
10000	51	52	47	46	45	44	44	47	47	43	36	39	36	38	43	37	40	43	48
OVERALL	73	72	72	69	69	69	68	70	69	68	66	68	69	68	77	77	76	74	74

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 01
AIRCRAFT CODE 714
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE D3

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	81.5	83.1	79.9	78.8	77.0	76.8	76.4	77.9	77.4	77.8	71.6	78.2	74.1	74.6	81.2	79.3	78.6	79.3	81.7
250	79.1	80.7	77.5	76.4	74.5	74.4	73.9	75.4	74.9	75.4	69.4	75.7	71.7	72.2	78.8	76.9	76.1	77.0	79.4
315	76.6	78.2	75.0	73.9	72.0	71.8	71.4	72.8	72.3	72.8	66.9	73.2	69.4	69.9	76.3	74.4	73.7	74.5	77.0
400	74.1	75.5	72.4	71.2	69.3	69.2	68.7	70.1	69.5	70.1	64.4	70.6	66.9	67.3	73.9	72.0	71.2	72.1	74.4
500	71.4	72.7	69.8	68.4	66.5	66.4	65.8	67.2	66.6	67.2	61.6	67.8	64.2	64.6	71.3	69.4	68.7	69.5	71.8
630	68.6	69.7	67.0	65.4	63.5	63.4	62.7	64.1	63.4	64.0	58.6	64.7	61.3	61.7	68.7	66.8	66.0	66.7	69.0
800	65.6	66.4	64.0	62.4	60.1	60.1	59.2	60.7	59.9	60.5	55.3	61.3	58.1	58.6	65.7	63.7	62.9	63.7	66.0
1000	62.4	62.9	60.7	58.9	56.3	56.5	55.4	56.8	56.0	56.7	51.9	57.6	54.8	55.1	62.3	60.2	59.4	60.4	62.7
1250	58.7	58.9	57.0	55.2	52.2	52.7	51.3	52.5	51.6	52.5	47.6	53.5	50.8	51.3	58.5	56.4	55.7	56.8	59.0
1600	54.7	54.6	52.9	51.0	47.5	48.1	46.0	47.2	46.3	47.3	43.2	48.7	46.5	46.8	54.4	52.2	51.1	52.7	55.0
2000	50.1	49.9	47.9	46.0	42.4	43.2	40.0	41.0	39.9	41.1	37.6	42.8	41.4	41.8	49.3	47.0	46.3	47.8	50.3
2500	45.2	44.6	42.5	40.3	36.1	37.2	32.0	32.3	29.2	33.5	26.8	35.8	34.9	35.4	43.2	40.1	40.3	41.8	44.6
3150	39.2	37.7	34.9	31.4	25.4	27.9	20.5	17.2	13.7	23.9	19.6	27.4	26.5	27.5	36.9	32.0	33.7	35.7	37.7
4000	31.5	27.9	25.6	20.1	11.5	12.9	9.0	2.2		9.9	6.7	16.3	14.0	12.0	29.4	20.6	23.2	27.3	27.1
5000	16.6	10.9	7.6	8.7								5.1	1.5		16.5	9.1	10.5	14.9	13.5
6300	5.8														3.6			2.5	
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 01
AIRCRAFT CODE 714
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE E3

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	83.1	86.2	82.3	81.6	80.4	79.6	80.4	82.4	81.9	81.8	73.9	82.1	75.6	75.3	82.3	80.4	79.9	80.7	83.4
250	80.6	83.8	79.9	79.1	77.9	77.2	77.9	79.9	79.4	79.4	71.5	79.7	73.3	73.5	79.9	78.0	77.5	78.4	81.0
315	78.3	81.3	77.4	76.6	75.4	74.7	75.4	77.3	76.7	75.8	69.1	77.2	70.9	71.1	77.4	75.5	75.1	75.9	78.6
400	75.7	78.7	74.8	73.9	72.7	72.1	72.7	74.6	74.0	74.1	66.5	74.6	68.4	68.6	74.9	73.1	72.6	73.4	76.1
500	73.1	75.8	72.2	71.1	69.9	69.3	69.8	71.7	71.1	71.2	63.7	71.8	65.7	65.9	72.4	70.5	70.0	70.8	73.4
630	70.3	72.8	69.4	68.2	66.9	66.3	66.7	68.6	67.9	68.0	60.7	68.6	62.8	63.0	69.8	67.9	67.3	68.1	70.5
800	67.3	69.6	66.4	65.1	63.5	62.9	63.2	65.1	64.4	64.5	57.4	65.3	59.7	59.9	66.8	64.8	64.3	65.1	67.6
1000	64.1	66.0	63.1	61.7	59.7	59.3	59.4	61.2	60.5	60.7	54.0	61.5	56.3	56.4	63.4	61.3	60.8	61.8	64.4
1250	60.4	62.1	59.4	57.9	55.6	55.5	55.3	56.9	56.1	56.4	49.7	57.5	52.3	52.7	59.6	57.5	57.0	58.2	60.7
1500	56.4	57.8	55.3	53.7	50.9	51.0	50.0	51.7	50.8	51.3	45.3	52.0	48.0	48.2	55.5	53.3	52.5	54.1	56.5
2000	51.8	53.0	50.3	48.7	45.8	46.1	44.0	45.5	44.3	45.1	39.7	46.8	42.9	43.1	50.4	48.1	47.7	49.2	51.9
2500	46.9	47.7	44.9	43.1	39.5	40.1	39.9	36.8	33.7	37.5	30.9	39.7	36.5	36.7	44.3	41.2	41.7	43.2	46.2
3150	40.8	40.9	37.3	34.1	28.8	30.7	24.5	21.7	18.1	27.9	21.8	31.4	28.0	28.8	37.9	33.1	35.0	37.1	39.3
4000	32.8	30.5	27.5	22.2	14.2	15.2	12.2	5.7	1.7	13.1	8.4	19.4	15.2	13.0	30.3	21.5	24.3	28.4	28.4
5000	19.7	12.8	9.0	10.3								7.5	2.4		17.2	9.8	11.3	15.7	14.4
6300	6.5														4.0			3.0	.5
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 01
AIRCRAFT CODE 714
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE F3

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	66.5	66.9	64.6	62.9	61.0	61.4	60.0	61.4	61.0	51.9	56.2	61.9	58.9	59.0	64.8	62.5	62.4	63.3	65.3
250	64.3	64.6	62.4	60.7	58.7	59.2	57.7	59.0	58.6	59.1	54.0	59.5	56.7	56.8	62.7	60.4	60.3	61.2	63.0
315	62.0	62.2	60.2	58.3	56.4	56.9	55.3	56.6	56.1	56.7	51.8	57.1	54.6	54.9	60.5	58.3	58.2	58.9	60.8
400	59.7	59.7	57.9	55.9	54.0	54.6	52.8	54.0	53.5	54.1	49.5	54.7	52.3	52.3	58.3	56.2	56.0	56.7	58.4
500	57.4	57.2	55.5	53.4	51.5	52.3	50.2	51.4	50.7	51.4	47.1	52.1	50.0	50.0	56.1	54.0	53.7	54.4	56.0
630	54.9	54.5	52.9	50.8	48.9	49.7	47.5	48.5	47.8	48.5	44.6	49.4	47.6	47.5	53.7	51.7	51.4	51.9	53.4
800	52.3	51.7	50.2	48.0	46.2	47.0	44.7	45.6	44.7	45.5	42.1	46.5	45.1	45.0	51.2	49.2	48.9	49.4	50.8
1000	49.6	48.7	47.4	45.2	43.3	44.2	41.7	42.4	41.4	42.3	39.4	43.6	42.5	42.4	48.5	46.5	46.2	46.7	47.9
1250	46.7	45.6	44.5	42.1	40.3	41.2	38.6	39.0	37.9	39.0	36.6	40.5	39.7	39.5	45.7	43.7	43.5	43.9	44.9
1600	43.6	42.3	41.3	38.9	37.0	38.1	35.3	35.4	34.1	35.4	33.7	37.3	36.8	36.5	42.7	40.6	40.5	41.0	41.8
2000	40.4	39.9	38.0	35.5	33.7	34.3	31.9	31.7	30.2	31.8	30.6	34.0	33.7	33.5	39.6	37.4	37.4	37.9	38.4
2500	36.6	35.1	34.4	31.8	30.0	31.2	28.3	27.7	26.2	26.1	27.4	30.7	30.4	30.0	36.2	33.9	34.0	34.5	34.8
3150	33.0	31.1	30.4	27.9	26.2	27.4	24.5	23.5	22.0	24.4	23.9	27.2	25.9	25.3	32.7	30.1	30.4	30.8	30.9
4000	28.8	28.9	26.2	23.6	22.1	23.2	20.5	19.1	17.7	20.4	20.1	23.5	23.0	22.3	28.8	26.0	26.4	26.9	26.7
5000	24.4	22.4	21.7	19.1	17.8	18.9	16.3	14.7	13.3	16.3	16.0	19.4	18.9	18.0	24.7	21.9	22.1	22.6	22.3
6300	19.8	17.7	17.1	14.4	13.2	14.4	11.6	10.1	8.6	11.9	11.6	15.0	14.4	13.4	20.4	17.5	17.7	18.1	17.7
8000	16.1	13.8	13.3	10.3	9.0	10.4	7.7	6.2	4.9	7.8	7.7	11.1	10.5	9.5	16.5	13.8	14.0	14.4	13.8
10000	12.3	9.6	9.4	6.2	4.8	6.2	3.4	2.3	.9	3.4	3.6	6.9	5.3	5.4	12.3	10.1	10.2	10.5	9.8
12500	8.2	5.7	5.3	2.1	.5	2.0						2.3	1.9	1.2	8.1	6.3	6.2	6.4	5.7
16000	3.9	1.4	1.2												3.8	2.5	2.1	2.2	1.6
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 01
AIRCRAFT CODE 714
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE G3

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	68.2	70.1	67.0	65.7	64.4	64.2	64.0	65.9	65.5	65.5	58.4	65.8	60.4	60.3	65.9	63.6	63.8	64.7	66.9
250	66.0	67.8	64.8	63.4	62.1	62.0	61.6	63.5	63.0	63.1	56.1	63.5	58.3	58.1	63.8	61.5	61.7	62.5	64.7
315	63.7	65.4	62.6	61.1	59.8	59.8	59.3	61.0	60.5	60.6	53.9	61.1	56.1	55.9	61.6	59.4	59.5	60.3	62.4
400	61.4	62.9	60.3	58.6	57.4	57.5	56.8	58.5	57.9	58.1	51.6	58.6	53.9	53.7	59.4	57.3	57.3	58.1	60.1
500	59.1	60.3	57.9	56.1	54.9	55.1	54.2	55.8	55.2	55.4	49.2	56.1	51.6	51.3	57.2	55.1	55.1	55.7	57.6
630	56.5	57.6	55.3	53.5	52.3	52.5	51.5	53.0	52.3	52.5	46.8	53.3	49.1	48.9	54.8	52.8	52.7	53.3	55.1
800	54.0	54.8	52.6	50.8	49.6	49.9	48.7	50.0	49.2	49.5	44.2	50.5	46.6	46.3	52.3	50.3	50.2	50.8	52.4
1000	51.3	51.9	49.8	47.9	46.7	47.1	45.7	46.9	45.9	46.3	41.5	47.6	44.0	43.7	49.6	47.6	47.6	48.1	49.6
1250	48.3	48.7	46.8	44.8	43.7	44.1	42.6	43.5	42.3	42.9	38.7	44.4	41.2	40.9	46.8	44.8	44.8	45.3	46.6
1600	45.3	45.4	43.7	41.6	40.4	40.9	39.3	39.9	38.6	39.4	35.8	41.2	38.3	37.9	43.8	41.7	41.9	42.3	43.4
2000	42.1	42.0	40.4	38.2	37.1	37.6	35.8	36.1	34.7	35.8	32.7	38.0	35.2	34.8	40.7	38.5	38.8	39.3	40.0
2500	38.5	38.3	36.7	34.6	33.4	34.0	32.2	32.1	30.6	32.1	29.5	34.6	31.9	31.4	37.3	35.0	35.4	35.9	36.4
3150	34.7	34.3	32.8	30.6	29.6	30.2	28.5	28.0	26.5	28.3	26.0	31.2	28.4	27.5	33.7	31.2	31.7	32.2	32.5
4000	30.2	29.4	28.1	25.8	24.8	25.5	23.7	22.7	21.3	23.6	21.8	26.6	24.2	23.3	29.7	26.9	27.5	28.0	28.0
5000	25.4	24.3	23.2	20.7	19.8	20.7	18.7	17.4	16.0	18.7	17.2	21.8	19.8	18.7	25.4	22.5	23.0	23.4	23.2
6300	20.4	19.0	18.1	15.4	14.5	15.5	13.4	11.9	10.6	13.5	12.4	16.6	15.1	13.9	20.8	17.9	18.2	18.7	18.3
8000	16.4	14.5	13.8	10.9	9.7	11.0	8.5	7.1	5.8	8.6	8.1	11.9	10.8	9.8	16.7	14.0	14.3	14.7	14.1
10000	12.3	9.8	9.4	6.2	4.8	6.2	3.4	2.3	.9	3.4	3.6	6.9	5.3	5.4	12.3	10.1	10.2	10.5	9.8
12500	8.2	5.7	5.3	2.1	.5	2.0						2.3	1.9	1.2	8.1	6.3	6.2	6.4	5.7
16000	3.9	1.4	1.2												3.8	2.5	2.1	2.2	1.6
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE

OPERATION:
80% RPM
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 01
AIRCRAFT CODE 714
OPERATION CODE 00119
PROFILE VERSION A
20 NOV 81
PAGE J3

P=PNLT A=AL T=ALT

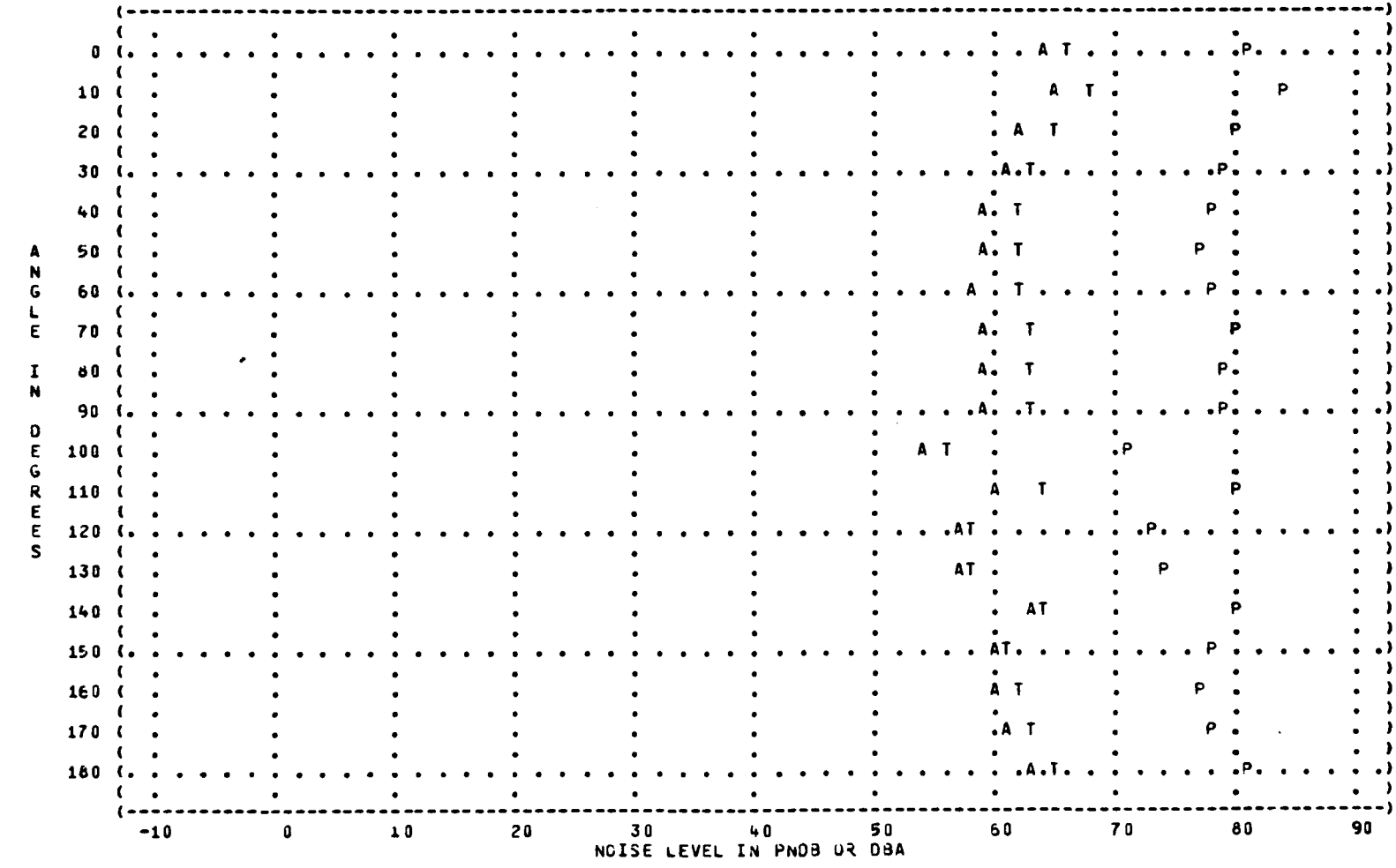


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 02

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

AIRCRAFT CODE 714
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE C2

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	68	66	69	69	71	74	72	75	75	76	75	77	79	79	84	86	87	88	88
63	68<	65<	69<	68<	70<	71<	70<	73<	74<	74<	73	73	78	74	74	78	81	83	81
80	68<	65<	69<	68<	68<	69<	69<	71<	73<	73<	71<	73<	74	72<	72<	75<	72	74	79<
100	68<	65<	67<	67<	67<	67<	67<	69<	72<	72<	69<	72<	74	71	70	72<	70	71	76<
125	68<	64<	66<	66<	65<	65<	65<	67<	70<	70<	67<	71<	72<	70<	70<	69<	68<	69<	74<
160	68<	64<	65<	65<	64<	63<	64<	65<	69<	69<	65<	70<	71<	70<	70<	66<	66<	67<	72<
200	68<	63<	64<	64<	62<	61<	62<	63<	67<	67<	63<	69	69	70	69	64<	65<	64<	69<
250	68<	63<	63<	63<	61<	59<	60<	61<	66<	66<	61<	67<	67<	66<	66<	61<	63<	62<	67<
315	68	63<	62<	63<	59<	57<	58<	59<	65<	65<	59<	64<	64<	63<	62<	58<	61<	60<	65<
400	69	62	61	62	58	55	57	57	63<	63<	57	62	61	59	59	55	59	58	63
500	71	68	66	66	62	65	65	64	62<	62<	59<	60	59	60	59<	56<	59<	58<	61<
630	71	66	65	66	63	66	64	61	61<	61<	60	60	58<	59	59<	56<	59<	58<	60<
800	68	61	61	60	61	62	63	58	59<	59<	60	60	58	60	59	57	59<	57<	58<
1000	65	60<	61<	60<	60<	61<	62<	59<	58<	58<	60	59<	58<	59	59	59<	59<	57<	57<
1250	67	60	61	61	59	61	62	60	56<	56<	61	58	58	60	62	60	59	57	56
1600	66	61	60	59	59	63	59	56	55	55	60	57	58	62	61	58	55	56<	56<
2000	60	57	59<	53<	53<	54<	53<	50<	54<	54<	57	57	56	61	55	52<	55<	55<	56<
2500	59<	55<	57<	47<	47<	48<	47<	44<	53<	53<	51<	51<	56	55<	49<	46<	55<	53<	56
3150	58<	54<	56<	41<	41<	42<	41<	38<	52<	52<	45<	45<	50<	49<	43<	40<	55<	52<	62
4000	57<	52<	54<	35<	35<	36<	35<	32<	51<	51<	39<	39<	44<	43<	37<	34<	55<	51<	59<
5000	56<	51<	52<	29<	29<	30<	29<	26<	50<	50<	33<	33<	38<	37<	31<	28<	55<	50<	57<
6300	54<	50<	51<	23<	23<	24<	23<	20<	49<	49<	27<	27<	32<	31<	25<	22<	55<	49<	55
8000	53	48<	49<	17<	17<	18<	17<	14<	48<	48<	21<	21<	26<	25<	19<	16<	55<	47<	54
10000	53	47	47	11<	11<	12<	11<	8<	47	47	15<	15<	20<	19<	13<	10<	55	46	53
OVERALL	81	76	77	77	77	79	78	80	81	81	80	82	84	82	85	87	88	89	90

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 02
AIRCRAFT CODE 714
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE D2

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	90.5	85.9	86.1	82.9	81.7	82.7	82.4	81.4	85.2	85.2	83.0	84.4	85.4	86.0	85.4	85.5	89.4	88.9	91.6
250	88.2	83.7	83.8	80.8	79.5	80.5	80.2	79.2	82.9	82.9	80.8	82.1	83.1	83.7	82.9	82.9	86.8	86.3	89.0
315	86.0	81.4	81.5	78.6	77.3	78.3	78.0	77.0	80.5	80.5	78.6	79.9	80.8	81.5	80.4	80.3	84.2	83.7	86.5
400	83.6	79.1	79.1	76.4	75.0	76.0	75.8	74.7	78.1	78.1	76.3	77.5	78.4	79.2	77.9	77.8	81.5	81.1	83.5
500	81.2	76.7	76.6	74.1	72.7	73.7	73.5	72.4	75.7	75.7	73.9	75.0	75.0	76.8	75.5	75.1	78.8	78.4	81.1
630	78.7	74.3	74.0	71.7	70.2	71.3	71.2	70.1	73.2	73.2	71.5	72.4	73.4	74.3	73.0	72.5	76.0	75.6	78.3
800	76.1	71.7	71.4	69.3	67.7	68.8	68.7	67.6	70.6	70.6	68.9	69.7	70.8	71.7	70.4	69.7	73.1	72.8	75.5
1000	73.5	69.1	68.7	66.8	65.1	66.3	66.2	65.1	67.9	67.9	66.2	67.0	67.9	66.3	67.8	66.9	70.2	69.8	72.5
1250	70.7	66.2	65.7	64.0	62.2	63.5	63.4	62.3	64.9	64.9	63.3	64.0	64.9	66.0	64.9	63.9	67.0	66.7	69.3
1600	67.7	63.2	62.7	61.1	59.2	60.4	60.4	59.2	61.8	61.8	60.0	60.8	61.5	62.7	61.7	60.6	63.6	63.4	65.9
2000	64.6	60.0	59.4	58.0	55.9	57.2	57.2	55.9	58.2	58.2	56.4	57.4	57.8	59.1	58.1	56.3	59.3	59.0	61.7
2500	61.0	56.4	55.6	54.4	52.3	53.7	53.8	52.2	53.8	53.8	52.4	53.0	53.2	55.0	53.9	51.2	54.3	54.0	56.7
3150	57.1	52.1	51.0	50.1	48.0	49.7	49.3	47.4	48.5	48.5	47.3	48.0	47.9	50.3	49.1	46.2	48.3	47.6	50.8
4000	52.5	47.2	46.7	45.1	42.7	44.6	44.1	41.4	42.7	42.7	40.9	42.1	41.7	44.2	43.0	39.3	42.0	40.2	44.7
5000	47.4	41.5	39.3	39.5	37.1	39.1	38.6	36.0	35.9	35.9	35.4	36.1	35.1	37.4	36.4	33.2	35.2	33.2	36.7
6300	41.5	35.3	33.5	33.3	30.8	33.1	32.6	29.6	28.3	28.3	28.3	28.0	25.9	29.2	29.2	25.0	26.7	22.9	27.6
8000	36.1	30.3	27.7	28.3	23.7	27.6	27.0	23.6	21.2	21.2	19.7	19.3	15.4	20.5	19.8	14.2	17.5	12.9	19.0
10000	30.4	23.1	19.3	19.6	15.8	19.4	18.8	14.7	11.8	11.6	11.1	10.5	5.0	11.7	10.3	3.5	8.2	2.9	8.5
12500	23.4	15.4	11.3	12.7	7.9	10.7	10.5	5.9	1.9	1.9	2.4	1.7		2.3	.9				
16000	13.8	7.7	3.4	5.7	.1	2.1	2.2												
20000	4.2	.0																	
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 8F-714-001
RUN 02
AIRCRAFT CODE 714
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	90.5	87.2	86.1	82.9	81.7	84.4	84.0	83.1	85.2	85.2	83.0	84.4	85.4	86.0	85.4	85.5	89.4	88.9	93.0
250	88.2	84.9	83.0	80.8	79.5	82.2	81.0	80.9	82.9	82.9	80.8	82.1	83.1	83.7	82.9	82.9	86.8	86.3	90.4
315	86.0	82.7	81.5	78.6	77.3	79.9	79.5	78.7	80.5	80.5	78.6	79.9	80.8	81.5	80.4	80.3	84.2	83.7	87.8
400	83.6	80.4	79.1	76.4	75.0	77.7	77.3	76.4	78.1	78.1	76.3	77.5	78.4	79.2	77.9	77.8	81.5	81.1	85.2
500	81.2	78.0	76.6	74.1	72.7	75.4	75.0	74.1	75.7	75.7	73.9	75.0	76.0	76.8	75.5	75.1	78.8	78.4	82.5
630	78.7	75.5	74.0	71.7	70.2	72.9	72.7	71.8	73.2	73.2	71.5	72.4	73.4	74.3	73.0	72.5	76.0	75.6	79.7
800	76.1	73.0	71.4	69.3	67.7	70.5	70.3	69.3	70.6	70.6	68.5	69.7	70.8	71.7	70.4	69.7	73.1	72.8	76.9
1000	73.5	70.3	68.7	66.8	65.1	67.9	67.7	66.8	67.9	67.9	66.2	67.0	67.9	68.3	67.8	66.9	70.2	69.8	73.8
1250	70.7	67.4	65.7	64.0	62.2	65.1	64.9	64.0	64.9	64.9	63.3	64.0	64.9	66.0	64.9	63.9	67.0	66.7	70.7
1600	67.7	64.5	62.7	61.1	59.2	62.1	61.9	60.9	61.0	61.8	60.0	60.8	61.5	62.7	61.7	60.6	63.6	63.4	67.3
2000	64.6	61.2	59.4	58.0	55.9	58.9	58.8	57.6	58.2	58.2	56.4	57.4	57.8	59.1	58.1	56.3	59.3	59.0	63.1
2500	61.0	57.6	55.6	54.4	52.3	55.4	55.3	53.9	53.0	53.8	52.4	53.0	53.2	55.0	53.9	51.2	54.3	54.0	58.0
3150	57.1	53.4	51.0	50.1	48.0	51.4	50.9	49.1	48.9	48.5	47.3	48.0	47.9	50.3	49.1	46.2	48.3	47.6	52.2
4000	52.5	48.2	45.7	45.1	42.7	45.9	45.4	42.6	42.7	42.7	40.9	42.1	41.7	44.2	43.0	39.3	42.0	40.2	45.9
5000	47.4	42.3	39.9	39.5	37.1	40.1	39.5	37.0	35.9	35.9	35.4	36.1	35.1	37.4	36.4	33.2	35.2	33.2	37.6
6300	41.5	35.8	33.5	33.3	30.8	33.8	33.2	30.3	28.3	28.3	28.3	28.0	25.9	29.2	29.2	25.0	28.7	22.9	28.2
8000	36.1	30.5	27.7	28.3	23.7	27.9	27.3	23.9	21.2	21.2	19.7	19.3	15.4	20.5	19.8	14.2	17.5	12.9	19.3
10000	30.4	23.1	19.3	19.6	15.8	19.4	18.8	14.7	11.6	11.8	11.1	10.5	5.0	11.7	10.3	3.5	8.2	2.9	8.5
12500	23.4	15.4	11.3	12.7	7.9	10.7	10.3	5.9	1.9	1.9	2.4	1.7		2.3	.9				
16000	13.6	7.7	3.4	5.7	.1	2.1	2.2												
20000	4.2	.0																	
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 02
AIRCRAFT CODE 714
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE F2

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	78.5	73.6	73.2	72.3	70.9	72.2	72.3	69.9	71.2	71.2	70.7	71.4	71.4	72.6	71.8	69.6	71.7	70.2	73.7
250	76.4	71.5	71.1	70.2	68.8	70.1	70.3	67.8	69.1	69.1	68.7	69.3	69.4	70.5	69.7	67.6	69.5	68.1	71.5
315	74.3	69.4	69.0	68.1	66.7	66.0	68.2	65.8	67.0	67.0	66.6	67.2	67.3	68.4	67.6	65.5	67.3	66.8	69.3
400	72.2	67.2	66.8	66.0	64.6	65.9	66.0	63.7	64.9	64.9	64.4	65.1	65.1	66.2	65.5	63.4	65.0	63.8	67.1
500	70.0	65.0	64.6	63.9	62.5	63.7	63.9	61.5	62.7	62.7	62.2	62.9	62.9	64.0	63.3	61.2	62.7	61.6	64.8
630	67.8	62.8	62.3	61.7	60.3	61.5	61.7	59.3	60.4	60.4	60.0	60.6	60.6	61.7	61.0	59.0	60.4	59.4	62.4
800	65.5	60.5	60.0	59.5	58.0	59.3	59.5	57.1	58.0	58.0	57.7	58.3	58.2	59.3	58.7	56.7	58.0	57.1	59.9
1000	63.2	58.2	57.6	57.2	55.7	57.0	57.2	54.7	55.6	55.6	55.3	55.9	55.7	56.8	56.3	54.3	55.6	54.7	57.3
1250	60.8	55.8	55.1	54.8	53.3	54.5	54.8	52.3	53.0	53.0	52.8	53.3	53.1	54.2	53.7	51.8	53.0	52.2	54.6
1600	58.3	53.3	52.6	52.3	50.8	52.1	52.3	49.8	50.4	50.4	50.1	50.5	50.3	51.5	51.0	49.1	50.4	49.5	51.7
2000	55.8	50.8	49.9	49.8	48.2	49.0	49.7	47.2	47.6	47.6	47.4	47.7	47.3	48.5	48.1	46.3	47.5	46.5	48.6
2500	52.9	48.0	47.0	47.0	45.4	46.8	47.0	44.4	44.5	44.5	44.4	44.6	44.0	45.4	45.0	43.1	44.4	43.3	45.2
3150	49.8	44.8	43.8	43.9	42.3	43.8	43.9	41.2	41.1	41.1	41.2	41.2	40.5	42.0	41.7	39.8	41.0	39.8	41.5
4000	46.3	41.2	40.2	40.3	38.8	40.3	40.5	37.6	37.3	37.3	37.6	37.4	36.7	38.2	38.0	36.1	37.3	35.9	37.5
5000	42.2	37.1	36.2	36.2	34.9	36.3	36.5	33.6	33.1	33.1	33.7	33.3	32.5	34.1	34.0	32.1	33.2	31.7	33.1
6300	37.8	32.8	31.8	31.9	30.6	32.0	32.3	29.3	28.8	28.8	29.3	28.9	28.1	29.6	29.6	27.8	28.8	27.3	28.6
8000	34.0	29.1	27.9	28.1	26.7	28.2	28.3	25.4	25.0	25.0	25.1	25.0	24.1	25.4	25.4	23.6	24.9	23.5	25.0
10000	29.8	25.0	23.7	24.0	22.4	23.9	24.0	21.2	20.9	20.9	20.6	20.8	19.9	20.9	20.9	19.3	20.8	19.6	21.3
12500	25.3	20.6	19.1	19.6	17.7	19.3	19.3	16.7	16.6	16.6	16.7	16.3	15.5	16.2	16.2	14.8	16.5	15.7	17.5
16000	20.3	15.8	14.2	14.7	12.5	14.3	14.2	11.9	12.0	12.0	10.5	11.6	11.1	11.3	11.4	10.5	12.3	12.0	13.7
20000	14.8	10.4	8.7	9.3	6.9	8.7	8.5	6.7	7.1	7.1	5.1	6.7	6.8	6.5	6.9	6.7	8.3	8.6	10.0
25000	8.6	4.3	2.8	3.4	1.0	2.6	2.4	1.3	2.3	2.3		2.1	2.7	1.9	2.8	3.4	4.8	5.5	6.6

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 02
AIRCRAFT CODE 714
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE G2

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	78.5	74.8	73.2	72.3	70.9	73.8	73.9	71.6	71.2	71.2	70.7	71.4	71.4	72.5	71.8	69.6	71.7	70.2	75.1
250	76.4	72.7	71.1	70.2	68.8	71.8	71.8	69.5	69.1	69.1	68.7	69.3	69.4	70.5	69.7	67.6	69.5	68.1	72.9
315	74.3	70.6	69.0	68.1	66.7	69.7	69.7	67.5	67.0	67.0	66.6	67.2	67.3	68.4	67.6	65.5	67.3	66.0	70.7
400	72.2	68.5	66.8	66.0	64.6	67.6	67.6	65.4	64.9	64.9	64.4	65.1	65.1	66.2	65.5	63.4	65.0	63.8	68.5
500	70.0	66.3	64.6	63.9	62.5	65.4	65.4	63.2	62.7	62.7	62.2	62.9	62.9	64.0	63.3	61.2	62.7	61.6	66.1
630	67.8	64.1	62.3	61.7	60.3	63.2	63.3	61.0	60.4	60.4	60.0	60.6	60.6	61.7	61.0	59.0	60.4	59.4	63.7
800	65.5	61.8	60.0	59.5	58.0	61.0	61.0	58.8	58.0	58.0	57.7	58.3	58.2	59.3	58.7	56.7	58.0	57.1	61.3
1000	63.2	59.5	57.6	57.2	55.7	58.7	58.7	56.4	55.6	55.6	55.3	55.9	55.7	56.8	56.3	54.3	55.6	54.7	58.7
1250	60.8	57.1	55.1	54.8	53.3	56.3	56.3	54.0	53.0	53.0	52.8	53.3	53.1	54.2	53.7	51.8	53.0	52.2	55.9
1500	58.3	54.6	52.6	52.3	50.8	53.8	53.9	51.5	50.4	50.4	50.1	50.5	50.3	51.5	51.0	49.1	50.4	49.5	53.1
2000	55.8	52.0	49.9	49.8	48.2	51.2	51.3	48.9	47.6	47.6	47.4	47.7	47.3	48.5	48.1	46.3	47.5	46.5	50.0
2500	52.9	49.3	47.0	47.0	45.4	48.5	48.5	46.1	44.5	44.5	44.4	44.6	44.0	45.4	45.0	43.1	44.4	43.3	46.6
3150	49.8	46.1	43.8	43.9	42.3	45.5	45.5	42.9	41.1	41.1	41.2	41.2	40.5	42.0	41.7	39.8	41.0	39.8	42.9
4000	46.3	42.3	40.2	40.3	38.8	41.7	41.7	39.0	37.3	37.3	37.6	37.4	36.7	38.2	38.0	36.1	37.3	35.9	38.5
5000	42.2	37.9	36.2	36.2	34.9	37.3	37.5	34.6	33.1	33.1	33.7	33.3	32.5	34.1	34.0	32.1	33.2	31.7	34.0
6300	37.8	33.3	31.8	31.9	30.6	32.7	32.9	30.0	28.8	28.8	29.3	28.9	28.1	29.5	29.6	27.8	28.8	27.3	29.2
8000	34.0	29.3	27.9	28.1	26.7	28.5	28.7	25.6	25.0	25.0	25.1	25.0	24.1	25.4	25.4	23.6	24.9	23.5	29.3
10000	29.8	25.0	23.7	24.0	22.4	23.9	24.0	21.2	20.9	20.9	20.6	20.8	19.9	20.9	20.9	19.3	20.8	19.6	21.3
12500	25.3	20.6	19.1	19.6	17.7	19.3	19.3	16.7	16.6	16.6	15.7	16.3	15.5	16.2	16.2	14.8	16.5	15.7	17.5
16000	20.3	15.8	14.2	14.7	12.5	14.3	14.2	11.9	12.0	12.0	10.5	11.6	11.1	11.3	11.4	10.5	12.3	12.0	13.7
20000	14.8	10.4	8.7	9.3	6.9	8.7	8.5	6.7	7.1	7.1	5.1	6.7	6.8	6.5	6.9	6.7	8.3	8.6	10.0
25000	8.6	4.3	2.8	3.4	1.0	2.6	2.4	1.3	2.3	2.3		2.1	2.7	1.9	2.8	3.4	4.8	5.5	6.6

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 02
AIRCRAFT CODE 714
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE J2

P=PNLT A=AL T=ALT

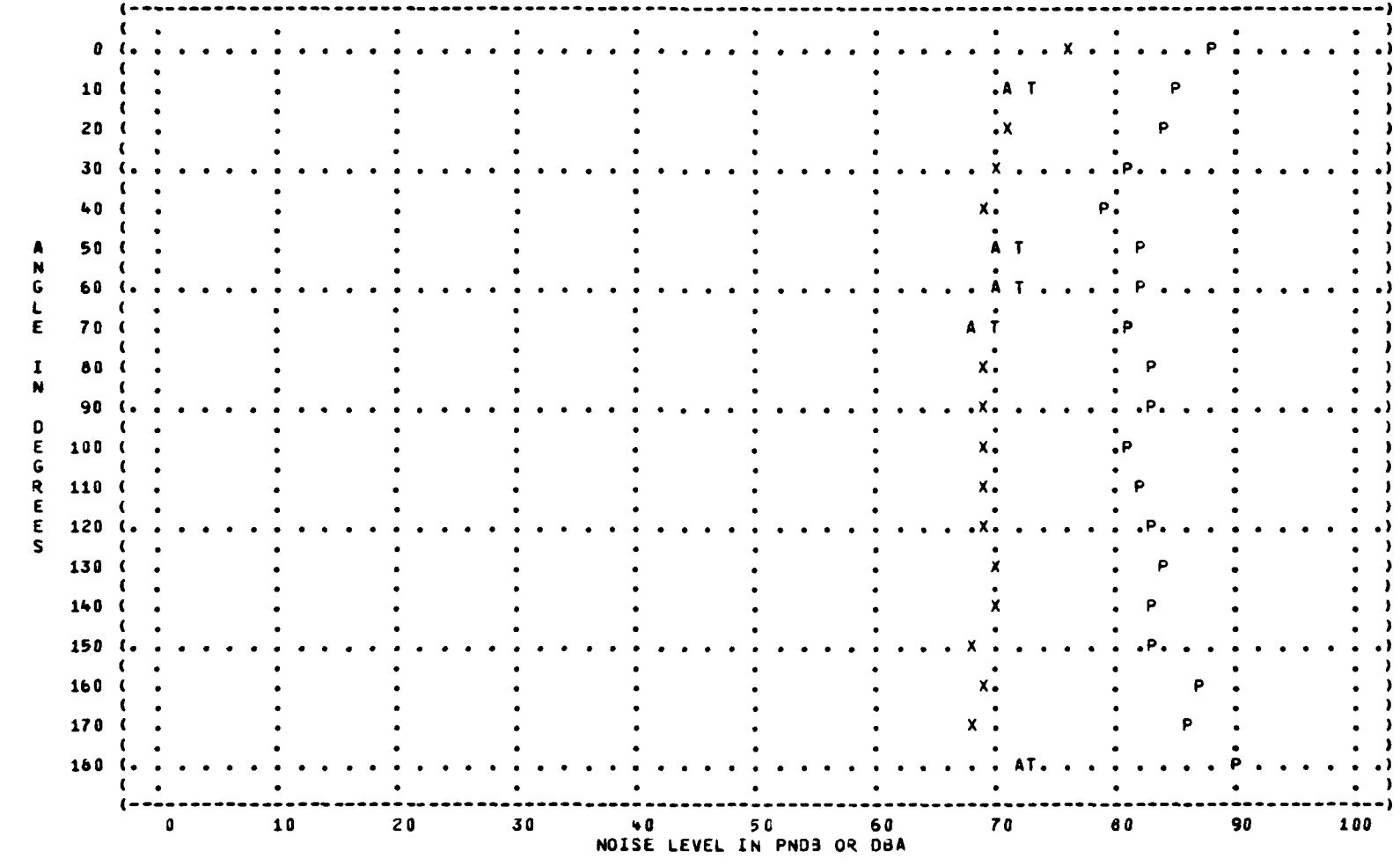


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 03
AIRCRAFT CODE 714
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE C1

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	81	80	82	83	85	87	85	89	89	86	86	93	95	96	98	100	101	100	103
63	78	77	77	80	78	81	80	85	84	86	84	89	90	92	92	96	99	98	99
80	76	72	74	74	74	74	73	78	81	83	84	87	88	86	83	86	91	91	91
100	80	75	74	73	70	72	71	73	75	81	80	83	83	84	81	81	81	84	80
125	75	71	71	71<	67<	70	70<	70<	72	77	75	78	78	77	77	76	77	77	75
160	74<	70<	69<	69<	65<	67<	68<	67<	63<	73<	73	75	76	76	75	74<	73	73	73<
200	72<	68<	68<	68<	62<	64<	66<	63<	60<	70<	72	76	75	75	74	71	72	72	70<
250	70<	67<	66<	66<	60<	60<	65<	60<	62<	66<	71	75	77	76	77	74	73	69<	68<
315	69<	65<	64<	64<	57<	57<	63<	57<	59<	62<	66<	69	69	69	71	68	68<	66<	66<
400	67	64	63	62	55	54	62<	54	55	59	61	66	66	67	66	65	63	63	63
500	73	70	67	70	63	64	60	62	60	59<	60<	62	64	66	65	65	61	63	62
630	71	68	66	68	63	60	61	61	62	58	60	61	64	69	66	66	63	65	62
800	69	67	64	64	64	64	62	62	62	61	62	65	65	72	70	69	63	65	61
1000	69	66	63	65	63	63	59	60	60	59	61	64	67	71	70	69	66	64	61
1250	74	71	68	69	66	66	64	63	61	62	63	66	69	70	70	73	69	65	62
1600	74	70	69	66	66	66	64	61	63	61	61	66	67	71	71	74	66	62	59
2000	67	65	65	63	61	60	59	57	59	58	59	65	66	70	67	70	62	59	57
2500	59	57	59	58	57	54	57<	56<	55	56	57	62	65	63	63	65	59	57	56
3150	58<	57<	58<	57<	55<	53<	55<	54<	55<	55<	51<	61	60	59	60	63	58<	56<	59
4000	57	57<	56<	56<	54<	52<	54<	53<	53<	55<	45<	57	54<	58<	57<	59	56<	54<	57<
5000	58	56	55<	55<	53<	51<	52<	52<	57	54	39<	59	48<	56<	55	58	54<	53<	55<
6300	59	56	53<	54	51<	49<	50<	50<	55	54	33<	55<	42<	54<	54<	56	53<	52<	53<
8000	59	56	52	53	50<	48<	48<	49<	55	54	27<	51<	36<	53	54	56	51	51<	52
10000	58	54	51	49	48	47	46	48	54	51	21<	47	30<	49	50	54	49	49	51
OVERALL	87	85	85	86	87	89	87	91	91	91	91	95	97	98	99	102	103	103	105

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 03
AIRCRAFT CODE 714
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE D1

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	95.6	92.5	91.5	91.4	89.0	90.1	89.1	90.9	91.6	91.9	91.5	96.6	97.5	99.2	99.4	101.1	100.6	99.8	101.0
250	93.6	90.3	89.3	89.1	86.6	87.5	86.6	88.4	89.1	89.7	89.0	94.5	95.4	97.0	97.3	99.0	98.5	97.7	99.0
315	91.3	88.0	87.0	86.8	84.3	85.0	84.1	85.8	86.5	87.2	86.5	92.2	93.3	94.9	95.2	96.9	96.4	95.6	96.9
400	89.0	85.6	84.6	84.5	81.9	82.4	81.7	83.1	83.8	84.6	84.0	89.7	91.1	92.7	93.0	94.7	94.2	93.5	94.7
500	86.6	83.2	82.2	82.0	79.5	79.9	79.3	80.4	81.1	82.0	81.6	87.0	88.5	90.3	90.7	92.5	92.0	91.3	92.5
630	84.0	80.7	79.6	79.5	77.0	77.4	76.8	77.7	78.4	79.3	79.0	84.3	85.8	87.5	88.2	90.2	89.8	89.0	90.3
800	81.4	78.1	77.0	76.9	74.3	74.8	74.1	74.9	75.5	76.5	76.4	81.5	83.0	84.8	85.4	87.7	87.5	86.6	88.1
1000	78.7	75.3	74.3	74.1	71.6	72.0	71.4	72.0	72.5	73.6	73.7	78.5	80.2	81.9	82.5	84.8	84.7	83.8	85.8
1250	75.7	72.4	71.4	71.2	68.6	69.1	68.4	68.9	69.4	70.5	70.4	75.4	77.1	78.3	79.5	81.6	81.7	81.0	82.8
1600	72.6	69.2	68.2	68.1	65.4	65.9	65.2	65.6	66.0	66.7	66.8	72.1	73.9	75.7	76.3	78.6	78.5	77.5	79.6
2000	69.2	65.8	64.7	64.5	61.8	62.3	61.5	61.4	61.6	62.4	62.8	68.1	69.9	71.7	72.2	74.5	74.2	73.2	75.2
2500	65.4	61.9	60.8	60.7	57.9	58.4	57.5	56.6	57.4	57.5	58.2	63.4	65.4	67.1	67.6	69.8	69.4	68.4	70.2
3150	61.3	57.7	56.4	56.5	53.3	53.9	52.8	51.0	52.4	52.0	52.9	58.2	60.2	62.1	62.4	64.5	63.9	62.9	64.6
4000	56.5	52.7	51.3	51.5	47.4	48.2	46.8	44.8	46.2	45.7	47.0	52.3	54.4	56.9	56.6	58.6	57.6	56.6	58.1
5000	51.4	46.9	44.9	45.4	41.2	41.6	39.3	38.1	38.7	39.0	41.0	46.0	48.5	51.5	51.1	52.9	50.7	49.5	51.0
5300	44.8	40.6	38.0	39.5	34.9	35.4	32.7	31.0	30.9	29.7	32.4	38.9	41.9	45.1	43.6	45.8	41.7	40.2	41.8
8000	39.2	35.3	32.3	34.5	27.8	29.9	25.0	23.5	23.5	21.3	23.6	31.9	35.3	39.1	37.9	38.6	35.7	34.6	36.5
10000	33.5	29.0	24.9	28.4	18.6	22.1	11.9	14.0	12.2	7.4	11.5	20.9	27.0	31.8	31.1	31.4	29.6	28.4	30.8
12500	26.4	19.7	14.3	19.1	9.4	11.3		4.4	.9			9.9	11.7	21.5	19.7	22.6	19.8	19.3	24.4
16000	16.1	9.4	3.7	9.9	.3	.6								7.2	8.3	9.9	14.0	12.9	18.8
20000	5.8			.7													8.1	6.5	12.8
25000																	2.3	.2	6.8

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 03
AIRCRAFT CODE 714
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	97.1	93.8	92.6	93.1	90.3	91.4	90.3	92.6	91.6	91.9	91.5	97.6	98.5	99.8	100.1	101.8	101.1	99.8	101.0
250	94.9	91.6	90.4	90.9	87.9	88.9	87.8	90.1	89.1	89.7	89.0	95.5	96.4	97.5	98.0	99.7	99.0	97.7	99.0
315	92.6	89.3	88.1	88.6	85.6	86.3	85.3	87.5	86.5	87.2	86.5	93.3	94.3	95.5	95.8	97.6	96.9	95.6	96.9
400	90.3	86.9	85.7	86.2	83.2	83.7	82.9	84.8	83.8	84.6	84.0	90.7	92.1	93.3	93.6	95.4	94.8	93.5	94.7
500	87.9	84.5	83.3	83.8	80.8	81.3	80.5	82.1	81.1	82.0	81.6	88.0	89.5	90.9	91.4	93.2	92.6	91.3	92.5
630	85.4	81.9	80.7	81.3	78.3	78.8	77.9	79.4	78.4	79.3	79.0	85.3	86.8	88.2	88.9	90.9	90.3	89.0	90.3
800	82.7	79.3	78.1	78.6	75.6	76.2	75.3	76.6	75.5	76.5	76.4	82.5	84.0	85.4	86.0	88.4	88.0	86.6	88.1
1000	80.0	76.6	75.4	75.9	72.9	73.4	72.5	73.7	72.5	73.6	73.7	79.5	81.2	82.5	83.2	85.5	85.2	83.8	85.5
1250	77.1	73.7	72.5	73.0	69.9	70.5	69.6	70.6	69.4	70.5	70.4	76.4	78.2	79.5	80.2	82.5	82.2	81.0	82.6
1600	74.0	70.5	69.3	69.8	66.7	67.3	66.3	67.3	66.0	65.7	66.8	73.1	74.9	76.3	77.0	79.3	79.0	77.5	79.6
2000	70.6	67.0	65.8	66.3	63.1	63.7	62.7	63.1	61.8	62.4	62.8	69.1	70.9	72.3	72.9	75.2	74.7	73.2	75.2
2500	66.7	63.2	61.9	62.5	59.2	59.8	58.6	58.3	57.4	57.5	58.2	64.4	66.4	67.7	68.3	70.5	69.9	68.4	70.2
3150	62.6	59.0	57.5	58.3	54.6	55.3	53.9	52.6	52.4	52.0	52.9	59.2	61.2	62.7	63.1	65.3	64.4	62.9	64.5
4000	57.6	53.7	52.1	52.9	48.5	49.3	47.8	46.1	46.2	45.7	47.0	53.1	55.2	57.4	57.1	59.2	58.1	56.6	58.1
5000	52.2	47.7	45.6	46.5	42.0	42.4	40.6	39.1	38.7	39.0	41.0	46.6	49.2	51.8	51.5	53.3	51.0	49.5	51.0
6300	45.3	41.1	38.5	40.2	35.4	36.0	33.1	31.6	30.9	29.7	32.4	39.3	42.3	45.3	43.8	46.1	41.9	40.2	41.8
8000	39.4	35.5	32.5	34.9	28.1	30.2	25.3	23.9	23.5	21.3	23.6	32.1	35.5	39.2	38.1	38.8	35.8	34.6	36.5
10000	33.5	29.0	24.9	28.4	18.6	22.1	11.3	14.0	12.2	7.4	11.5	20.9	27.0	31.8	31.1	31.4	29.6	28.4	30.8
12500	26.4	19.7	14.3	19.1	9.4	11.3		4.4	.9			9.9	11.7	21.5	19.7	22.6	19.8	19.3	24.4
16000	16.1	9.4	3.7	9.9	.3	.6								7.2	8.3	9.9	14.0	12.3	18.8
20000	5.8			.7													8.1	6.5	12.8
25000																	2.3	.2	6.8

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 03
AIRCRAFT CODE 714
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE F1

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	82.6	79.4	77.6	78.0	75.3	75.6	74.1	73.2	74.0	74.3	74.9	78.9	80.4	82.2	81.7	83.1	80.6	79.7	79.9
250	80.5	77.3	75.5	75.9	73.1	73.5	72.0	71.1	71.9	72.2	72.9	76.9	78.3	80.1	79.6	81.0	78.6	77.7	77.8
315	78.3	75.1	73.4	73.7	71.0	71.4	69.9	68.9	69.7	70.1	70.8	74.7	76.2	78.0	77.5	78.8	76.5	75.7	75.8
400	76.2	73.0	71.2	71.6	68.8	69.2	67.7	66.8	67.5	67.9	68.7	72.6	74.1	75.9	75.3	76.7	74.5	73.6	73.7
500	74.0	70.8	69.0	69.4	66.6	67.0	65.5	64.6	65.2	65.7	66.5	70.4	71.9	73.7	73.2	74.5	72.3	71.5	71.7
630	71.7	68.5	66.7	67.1	64.3	64.8	63.2	62.4	62.9	63.4	64.2	68.1	69.6	71.4	70.9	72.2	70.2	69.4	69.6
800	69.4	66.2	64.3	64.8	62.0	62.5	60.8	60.1	60.6	61.0	61.9	65.7	67.2	69.1	68.6	69.9	68.0	67.2	67.5
1000	67.0	63.8	61.9	62.4	59.6	60.1	58.4	57.7	58.1	58.5	59.5	63.2	64.8	66.7	66.2	67.6	65.8	65.0	65.3
1250	64.5	61.3	59.4	59.9	57.1	57.6	55.9	55.2	55.5	55.9	56.8	60.5	62.2	64.2	63.7	65.1	63.4	62.7	63.1
1500	61.9	58.7	56.7	57.4	54.5	55.0	53.2	52.6	52.8	52.9	53.9	57.6	59.4	61.5	61.0	62.4	60.6	59.9	60.4
2000	59.1	56.0	53.9	54.7	51.7	52.3	50.3	49.7	49.9	49.8	50.9	54.5	56.3	58.5	58.0	59.4	57.4	56.7	57.2
2500	56.2	53.0	50.9	51.8	48.7	49.4	47.2	46.6	46.7	46.4	47.5	51.1	53.0	55.5	54.9	56.1	53.9	53.2	53.5
3150	53.0	49.8	47.6	48.5	45.5	46.2	43.8	43.3	43.3	42.8	43.9	47.4	49.5	52.1	51.4	52.6	50.1	49.3	49.5
4000	49.4	46.2	43.9	44.9	41.9	42.6	40.2	39.6	39.6	38.8	40.0	43.5	45.7	48.5	47.7	48.8	45.9	45.1	45.0
5000	45.3	42.2	39.8	40.9	37.9	38.6	36.1	35.6	35.5	34.7	35.9	39.2	41.6	44.5	43.6	44.6	41.5	40.7	40.3
6300	40.9	37.8	35.3	36.5	33.5	34.2	31.6	31.2	31.1	30.2	31.4	34.7	37.1	40.1	39.2	40.0	36.9	36.2	35.5
8000	36.6	33.5	31.0	32.4	29.2	30.0	27.3	27.2	27.0	26.3	27.5	30.7	33.0	36.0	35.1	35.8	33.5	33.0	32.9
10000	31.5	28.9	26.4	28.0	24.5	25.5	22.7	23.0	22.9	22.3	23.4	25.6	28.8	31.6	30.7	31.4	30.2	29.9	30.3
12500	27.0	24.0	21.5	23.3	19.5	20.7	18.0	18.7	18.6	18.4	19.4	22.6	24.5	27.1	26.3	27.3	27.2	26.9	27.8
16000	21.7	18.7	16.4	18.3	14.3	15.8	13.2	14.5	14.4	14.6	15.5	18.8	20.5	22.6	22.2	23.7	24.4	24.1	25.3
20000	16.1	13.2	11.1	12.9	9.2	10.8	8.6	10.7	10.6	11.3	11.9	15.4	16.9	18.5	18.5	20.6	21.8	21.4	22.9
25000	10.3	7.3	5.8	7.5	4.5	6.3	4.5	7.4	7.2	5.2	8.7	12.3	13.7	14.9	15.4	17.8	19.3	18.8	20.4

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
UMEGA 8.2
TEST BF-714-001
RUN 03
AIRCRAFT CODE 714
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE G1

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	83.9	80.7	78.7	79.7	76.6	77.0	75.3	74.9	74.0	74.3	74.9	80.0	81.4	82.3	82.3	83.8	81.2	79.7	79.9
250	81.8	78.5	76.6	77.6	74.4	74.9	73.2	72.8	71.9	72.2	72.9	77.9	79.3	80.7	80.3	81.7	79.1	77.7	77.8
315	79.6	76.4	74.4	75.5	72.3	72.7	71.1	70.6	69.7	70.1	70.6	75.8	77.2	78.5	78.2	79.5	77.0	75.7	75.8
400	77.5	74.2	72.3	73.3	70.1	70.6	68.9	68.5	67.5	67.9	68.7	73.6	75.1	76.5	76.0	77.4	75.0	73.6	73.7
500	75.3	72.0	70.0	71.1	67.9	68.4	66.7	66.3	65.2	65.7	66.5	71.4	72.9	74.3	73.8	75.2	72.9	71.5	71.7
630	73.0	69.8	67.8	68.9	65.6	66.1	64.4	64.0	62.9	63.4	64.2	69.1	70.6	72.0	71.6	73.0	70.7	69.4	69.6
800	70.7	67.4	65.4	66.6	63.3	63.8	62.0	61.7	60.6	61.0	61.9	66.7	68.3	69.7	69.2	70.6	68.5	67.2	67.5
1000	68.3	65.0	63.0	64.2	60.9	61.5	59.8	59.4	58.1	58.5	59.5	64.2	65.8	67.3	66.8	68.3	66.3	65.0	65.3
1250	65.8	62.6	60.4	61.7	58.4	59.0	57.0	56.9	55.3	55.9	56.8	61.5	63.2	64.8	64.3	65.8	63.9	62.7	63.1
1600	63.2	60.0	57.8	59.1	55.8	56.4	54.3	54.3	52.8	52.9	53.9	58.6	60.4	62.1	61.6	63.1	61.1	59.9	60.4
2000	60.5	57.2	55.0	56.4	53.0	53.7	51.5	51.4	49.9	49.8	50.9	55.5	57.3	59.2	58.7	60.1	57.9	56.7	57.2
2500	57.5	54.3	52.0	53.5	50.0	50.7	48.4	48.3	46.7	46.4	47.5	52.1	54.0	55.1	55.5	56.9	54.4	53.2	53.5
3150	54.3	51.1	48.7	50.3	46.8	47.6	45.0	45.0	43.3	42.8	43.9	48.4	50.5	52.7	52.1	53.3	50.6	49.3	49.5
4000	50.4	47.2	44.8	46.4	43.0	43.7	41.1	41.0	39.6	38.8	40.0	44.3	46.5	49.0	48.3	49.3	46.3	45.1	45.0
5000	46.1	43.0	40.5	41.9	38.7	39.4	36.8	36.6	35.5	34.7	35.9	39.8	42.2	44.9	44.0	45.0	41.8	40.7	40.3
6300	41.4	38.3	35.8	37.2	34.1	34.8	32.1	31.9	31.1	30.2	31.4	35.1	37.5	40.4	39.5	40.3	37.1	36.2	35.6
8000	36.8	33.8	31.2	32.7	29.5	30.3	27.6	27.5	27.0	25.3	27.5	30.9	33.2	36.1	35.2	35.9	33.6	33.0	32.9
10000	31.9	28.9	26.4	28.0	24.5	25.5	22.7	23.0	22.9	22.3	23.4	26.8	28.8	31.5	30.7	31.4	30.2	29.9	30.3
12500	27.0	24.0	21.5	23.3	19.5	20.7	18.0	18.7	18.6	18.4	19.4	22.6	24.5	27.1	26.3	27.3	27.2	26.9	27.8
16000	21.7	18.7	16.4	18.3	14.3	15.8	13.2	14.5	14.4	14.6	15.5	18.8	20.5	22.5	22.2	23.7	24.4	24.1	25.3
20000	16.1	13.2	11.1	12.9	9.2	10.8	8.6	10.7	10.6	11.3	11.9	15.4	16.9	18.9	18.5	20.6	21.8	21.4	22.9
25000	10.3	7.3	5.8	7.5	4.5	6.3	4.5	7.4	7.2	8.2	8.7	12.3	13.7	14.9	15.4	17.8	19.3	18.8	20.4

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

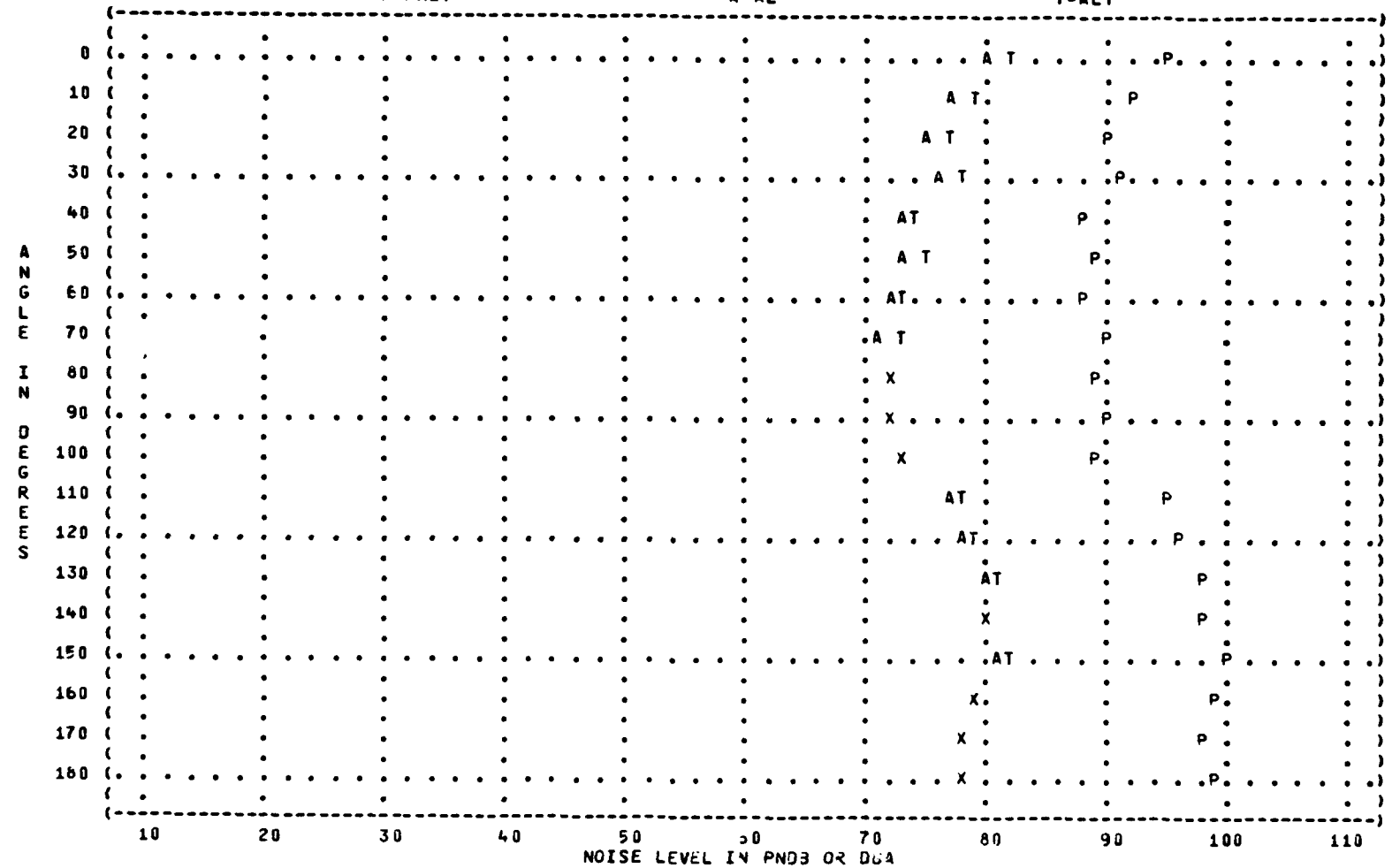
NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-714-001
RUN 03
AIRCRAFT CODE 714
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE J1

P=PNLT A=AL T=ALT



NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(J75-P-19 ENG.)

DURING GROUND RUN-UP OPERATIONS

TEST BF-716-001
AIRCRAFT CODE: 716
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting	Page
Engine Runup, 91% RPM	228
Military Power, 103% RPM	234
Afterburner Power, 103% RPM	240

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCT.. 'E BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 8F-715-001
RUN 01
AIRCRAFT CODE 716
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE C3

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
91 % RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	65	60	66	63	65	69	66	67	66	68	67	68	70	73	72	73	78	75	79
63	63	58	60	60	61	61	61	63	62	64	65	67	69	68	64	68	70	71	72
80	61	61	60	58	60	58	61	59	62	63	63	63	65	65	61	63	65	65	65
100	62	59	58	57	59	57	60	56	58	61	61	62	62	62	60	59	58	60	59
125	59	58	55	55	56	54	55	54	52	57	56	59	59	59	55	55	58	55	55
160	56	53	52	51	51	50	50	49	48	52	53	54	55	57	53	51	53	52	51
200	50	47	48	48	46	48	46	45	43	46	49	50	52	55	52	47	50	51	50
250	49	49	49	47	45	43	45	43	41	44	47	48	47	49	47	46	46	47	51
315	46	44	45	44	40	41	38	38	38	43	41	45	42	46	41	44	43	46	48
400	47	43	43	41	38	40	38	37	38	43	40	41	41	45	39	43	40	45	48
500	50	46	46	45	43	43	43	43	41	42	40	42	42	43	39	43	41	47	48
630	48	45	44	43	44	44	42	41	41	42	41	43	42	43	40	44	42	47	49
800	45	43	41	42	40	42	42	40	40	42	41	44	43	43	40	42	42	46	48
1000	49	43	41	42	41	42	41	40	39	40	40	42	42	42	40	43	42	45	46
1250	52	46	43	43	44	44	42	43	40	40	40	42	41	42	41	44	43	44	45
1600	55	49	48	48	48	47	45	42	43	42	40	42	42	44	43	42	40	44	44
2000	58	59	55	58	60	55	51	49	48	46	44	45	44	44	41	43	42	46	44
2500	51	51	49	51	53	48	44	43	42	44	42	43	43	41	37	40	39	44	42
3150	39	36	36	36	36	37	35	36	39	39	38	39	39	40	37	40	39	44	42
4000	48	40	39	40	38	36	37	41	44	40	38	39	37	39	36	38	37	44	40
5000	46	42	39	40	40	37	38	39	44	41	37	38	38	42	36	38	37	41	39
6300	47	46	42	42	41	40	41	36	44	41	36	36	36	39	33	36	35	37	37
8000	45	44	41	41	42	38	40	39	42	39	38	36	35	37	33	35	34	36	36
10000	43	41	40	38	47	38	38	38	39	41	45	38	34	35	35	39	33	33	34
OVERALL	70	68	69	68	69	70	69	70	69	71	71	72	74	75	73	75	79	77	80

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 01
AIRCRAFT CODE 716
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE D3

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
91 % RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	79.6	78.7	75.9	77.2	78.4	75.4	73.4	72.2	72.4	72.0	70.9	71.8	71.9	73.2	69.9	71.8	74.3	74.5	76.3
250	77.4	76.4	73.6	74.9	76.1	73.1	71.1	69.9	70.0	69.7	68.5	69.4	69.5	70.7	67.4	69.2	71.7	71.9	73.7
315	75.0	74.1	71.2	72.5	73.7	70.7	68.7	67.5	67.6	67.2	66.0	67.1	67.1	68.1	64.8	66.6	69.1	69.4	71.2
400	72.6	71.6	68.8	70.1	71.3	68.3	66.1	64.9	65.0	64.7	63.4	64.6	64.6	65.5	62.1	64.0	66.3	66.8	68.5
500	70.0	69.1	66.2	67.5	68.7	65.7	63.5	62.2	62.3	62.0	60.7	62.0	61.9	63.0	59.2	61.1	63.5	64.0	65.8
630	67.4	66.4	63.4	64.8	66.0	62.9	60.7	59.4	59.4	59.2	57.8	59.0	59.0	60.2	56.1	58.1	60.5	61.1	62.9
800	64.5	63.5	60.5	61.9	63.1	60.0	57.7	56.4	56.4	55.0	54.5	55.9	55.9	57.1	52.7	54.8	57.4	58.1	59.8
1000	61.5	60.5	57.4	58.9	60.0	57.0	54.5	53.1	53.0	52.6	50.9	52.5	52.4	53.7	49.2	51.3	54.1	54.9	56.7
1250	58.2	57.3	54.2	55.6	56.8	53.7	51.1	49.6	49.4	48.8	46.9	48.6	48.5	49.8	45.2	47.4	50.4	51.1	53.2
1600	54.6	53.7	50.3	51.9	53.0	49.9	46.9	45.2	44.2	44.3	42.4	44.4	44.1	45.5	40.6	43.2	46.1	46.9	49.2
2000	50.5	49.6	45.6	47.6	48.9	45.0	41.0	39.1	38.9	38.3	36.5	38.9	38.7	40.5	34.2	37.6	40.1	42.3	43.7
2500	45.6	44.4	40.2	42.5	44.1	40.0	35.4	33.0	32.3	31.3	28.2	31.1	30.2	33.1	25.1	29.3	31.2	35.5	36.8
3150	39.7	39.4	33.9	37.0	38.7	34.1	29.8	26.9	24.4	22.6	16.4	22.9	19.8	23.3	11.4	20.9	20.3	27.9	30.0
4000	33.6	32.6	27.1	30.2	32.0	26.5	21.0	15.6	13.9	9.3	4.7	7.3	9.5	13.5		12.4	9.4	16.7	20.1
5000	25.6	24.4	16.6	22.2	24.8	16.6	10.1	4.3	3.4					3.8		4.0		5.6	7.5
6300	12.2	13.7	6.1	10.9	14.0	6.7													
8000		2.9			3.3														
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
91 % RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 01
AIRCRAFT CODE 716
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	81.4	81.9	78.3	80.1	81.5	77.8	75.6	74.5	74.5	72.0	70.9	71.8	71.9	74.2	69.9	71.8	74.3	74.5	76.3
250	79.1	79.6	76.0	77.8	79.2	75.5	73.3	72.2	72.1	69.7	68.5	69.4	69.5	71.7	67.4	69.2	71.7	71.9	73.7
315	76.8	77.2	73.6	75.5	76.8	73.2	70.9	69.8	69.6	67.2	66.0	67.1	67.1	69.1	64.8	66.6	69.1	69.4	71.2
400	74.3	74.8	71.2	73.0	74.3	70.7	68.3	67.2	67.0	64.7	63.4	64.6	64.6	66.5	62.1	64.0	66.3	66.8	68.5
500	71.8	72.3	68.6	70.5	71.8	68.1	65.7	64.5	64.4	62.0	60.7	62.0	61.9	64.0	59.2	61.1	63.5	64.0	65.8
630	69.1	69.6	65.8	67.7	69.0	65.3	62.9	61.7	61.5	59.2	57.8	59.0	59.0	61.2	56.1	58.1	60.5	61.1	62.9
800	66.3	66.7	62.9	64.9	66.2	62.5	59.9	58.7	58.5	56.0	54.5	55.9	55.9	58.1	52.7	54.8	57.4	58.1	59.8
1000	63.2	63.7	59.8	61.9	63.1	59.4	56.7	55.4	55.1	52.6	50.9	52.5	52.4	54.7	49.2	51.3	54.1	54.9	56.7
1250	60.0	60.5	56.5	58.5	59.9	56.1	53.3	51.9	51.4	48.8	46.9	48.6	48.5	50.8	45.2	47.4	50.4	51.1	53.2
1600	56.4	56.9	52.7	54.8	56.1	52.3	49.1	47.5	46.6	44.3	42.4	44.4	44.1	46.5	40.6	43.2	46.1	46.9	49.2
2000	52.2	52.7	47.9	50.6	51.9	47.4	43.2	41.4	41.0	38.3	36.5	38.9	38.7	41.3	34.2	37.6	40.1	42.3	43.7
2500	47.4	47.8	42.5	45.5	47.2	42.5	37.6	35.3	34.3	31.3	28.2	31.1	30.2	34.1	25.1	29.3	31.2	35.5	36.8
3150	41.4	42.6	36.3	39.9	41.8	36.5	32.0	29.2	26.4	22.6	16.4	22.9	19.8	24.3	11.4	20.9	20.3	27.9	30.0
4000	35.0	35.4	29.0	32.5	34.4	28.4	22.7	17.5	15.5	9.3	4.7	7.3	9.5	14.3		12.4	9.4	16.7	20.1
5000	26.6	26.3	18.0	23.9	26.6	18.1	11.4	5.7	4.6					4.4		4.0		5.6	7.5
6300	13.0	15.0	7.0	12.0	15.3	7.7	.1												
8000		3.6		.1	3.9														
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
91 % RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 01
AIRCRAFT CODE 716
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	65.4	64.5	61.2	63.0	64.6	60.9	58.4	57.0	57.4	56.9	56.0	57.0	56.8	58.0	54.9	56.5	56.8	59.0	59.4
250	63.2	62.3	59.0	60.8	62.4	58.8	56.2	54.9	55.2	54.7	53.8	54.8	54.7	55.8	52.8	54.3	54.7	56.9	57.4
315	61.0	60.1	56.8	58.6	60.2	56.6	54.0	52.6	52.8	52.5	51.5	52.7	52.6	53.7	50.7	52.2	52.6	54.7	55.2
400	58.7	57.8	54.5	56.4	57.9	54.3	51.7	50.4	50.5	50.2	49.2	50.5	50.4	51.5	48.5	50.0	50.4	52.5	53.1
500	56.4	55.5	52.2	54.0	55.5	52.0	49.4	48.0	48.0	47.8	46.9	48.2	48.2	49.2	46.3	47.7	48.2	50.3	50.9
630	54.0	53.1	49.8	51.6	53.1	49.6	47.0	45.6	45.5	45.4	44.5	45.9	45.9	46.9	43.9	45.4	46.0	48.0	48.7
800	51.5	50.6	47.3	49.1	50.6	47.1	44.5	43.2	42.9	43.0	42.0	43.5	43.5	44.5	41.5	43.1	43.7	45.6	46.4
1000	48.9	47.9	44.7	46.5	48.0	44.5	41.9	40.6	40.2	40.4	39.5	40.9	41.0	42.0	39.0	40.7	41.4	43.2	44.1
1250	46.2	45.2	41.9	43.7	45.2	41.8	39.2	37.9	37.3	37.6	36.7	38.2	38.3	39.3	36.4	38.1	38.9	40.7	41.7
1600	43.3	42.2	39.0	40.7	42.2	38.9	36.3	35.0	34.3	34.7	33.8	35.4	35.4	36.4	33.6	35.4	36.2	37.9	39.1
2000	40.3	39.0	35.9	37.6	39.0	35.6	33.2	31.9	31.1	31.6	30.6	32.3	32.2	33.3	30.5	32.4	33.1	35.0	36.2
2500	37.0	35.6	32.4	34.1	35.4	32.4	29.9	28.6	27.7	28.2	27.2	29.0	28.8	29.8	27.1	29.2	29.7	31.8	33.1
3150	33.4	31.7	28.7	30.2	31.5	28.6	26.2	25.0	24.0	24.6	23.5	25.4	25.2	26.2	23.9	25.7	26.0	28.3	29.5
4000	29.5	27.5	24.5	26.0	27.2	24.5	22.2	21.0	20.0	20.6	19.5	21.5	21.2	22.1	19.5	21.8	22.0	24.5	25.9
5000	25.0	22.7	19.9	21.2	22.3	19.9	17.8	16.6	15.6	16.3	15.2	17.3	16.9	17.8	15.3	17.6	17.6	20.3	21.7
6300	20.2	17.4	14.8	15.9	16.8	14.9	12.9	11.9	10.8	11.7	10.7	12.9	12.4	13.3	10.7	13.2	13.0	15.9	17.2
8000	15.3	12.0	9.9	10.6	11.0	9.9	8.3	7.5	6.4	7.7	6.7	8.9	8.6	9.5	6.8	9.3	9.5	12.1	13.6
10000	10.2	6.5	4.9	5.2	5.2	4.9	3.7	3.0	2.0	3.6	2.8	4.8	4.7	5.7	2.9	5.3	6.1	8.1	9.5
12500	5.0	1.1	.1	.9		.0						.6	.9	1.9		1.4	2.8	4.2	6.0
16000																		.3	2.3
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
91 % RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 01
AIRCRAFT CODE 716
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE G3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.1	67.7	63.5	65.9	67.7	63.4	60.6	59.3	59.5	55.9	56.0	57.0	56.5	59.0	54.9	56.5	56.8	59.0	59.4
250	65.0	65.5	61.4	63.8	65.5	61.2	58.4	57.2	57.2	54.7	53.8	54.8	54.7	56.9	52.8	54.3	54.7	56.9	57.4
315	62.7	63.3	59.2	61.6	63.2	59.0	56.2	54.9	54.9	52.5	51.5	52.7	52.6	54.7	50.7	52.2	52.6	54.7	55.2
400	60.5	61.0	56.9	59.3	60.9	56.7	53.9	52.7	52.5	50.2	49.2	50.5	50.4	52.5	48.5	50.0	50.4	52.5	53.1
500	58.1	58.7	54.6	57.0	58.6	54.4	51.6	50.3	50.1	47.8	46.9	48.2	48.2	50.2	46.3	47.7	48.2	50.3	50.9
630	55.7	56.3	52.2	54.5	56.2	52.0	49.2	47.9	47.5	45.4	44.5	45.9	45.9	47.9	43.9	45.4	46.0	48.0	48.7
800	53.3	53.8	49.7	52.0	53.7	49.6	46.7	45.5	44.9	43.0	42.0	43.5	43.5	45.5	41.5	43.1	43.7	45.6	46.4
1000	50.7	51.1	47.1	49.4	51.0	47.0	44.1	42.9	42.2	40.4	39.5	40.9	41.0	43.0	39.0	40.7	41.4	43.2	44.1
1250	48.0	48.4	44.3	46.6	48.2	44.2	41.4	40.2	39.4	37.6	36.7	38.2	38.3	40.3	36.4	38.1	38.9	40.7	41.7
1600	45.1	45.4	41.4	43.7	45.3	41.3	38.5	37.3	36.4	34.7	33.8	35.4	35.4	37.4	33.6	35.4	36.2	37.9	39.1
2000	42.1	42.2	38.2	40.5	42.0	38.2	35.4	34.2	33.2	31.6	30.6	32.3	32.2	34.3	30.5	32.4	33.1	35.0	36.2
2500	38.8	38.7	34.8	37.0	38.5	34.8	32.1	30.9	29.8	28.2	27.2	29.0	29.8	30.9	27.1	29.2	29.7	31.8	33.1
3150	35.2	34.9	31.1	33.2	34.6	31.1	28.4	27.3	26.1	24.6	23.5	25.4	25.2	27.2	23.5	25.7	26.0	28.3	29.6
4000	30.9	30.0	26.4	28.3	29.6	26.5	24.0	22.8	21.6	20.6	19.5	21.5	21.2	22.9	19.5	21.8	22.0	24.5	25.9
5000	26.1	24.6	21.3	23.0	24.1	21.4	19.1	18.0	16.6	15.3	15.2	17.3	15.9	18.4	15.3	17.6	17.6	20.3	21.7
6300	20.9	18.7	15.7	17.1	18.0	15.8	13.8	12.8	11.6	11.7	10.7	12.9	12.4	13.7	10.7	13.2	13.0	15.9	17.2
8000	15.7	12.6	10.3	11.1	11.6	10.4	8.8	7.9	6.8	7.7	6.7	8.9	8.6	9.7	6.8	9.3	9.5	12.1	13.6
10000	10.2	6.5	4.9	5.2	5.2	4.9	3.7	3.0	2.0	3.6	2.8	4.8	4.7	5.7	2.9	5.3	6.1	8.1	9.8
12500	5.0	1.1	.1	.0		.0						.6	.9	1.9		1.4	2.8	4.2	6.0
16000																		.3	2.3
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
91 % RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 01
AIRCRAFT CODE 716
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE J3

P=PNLT A=AL T=ALT

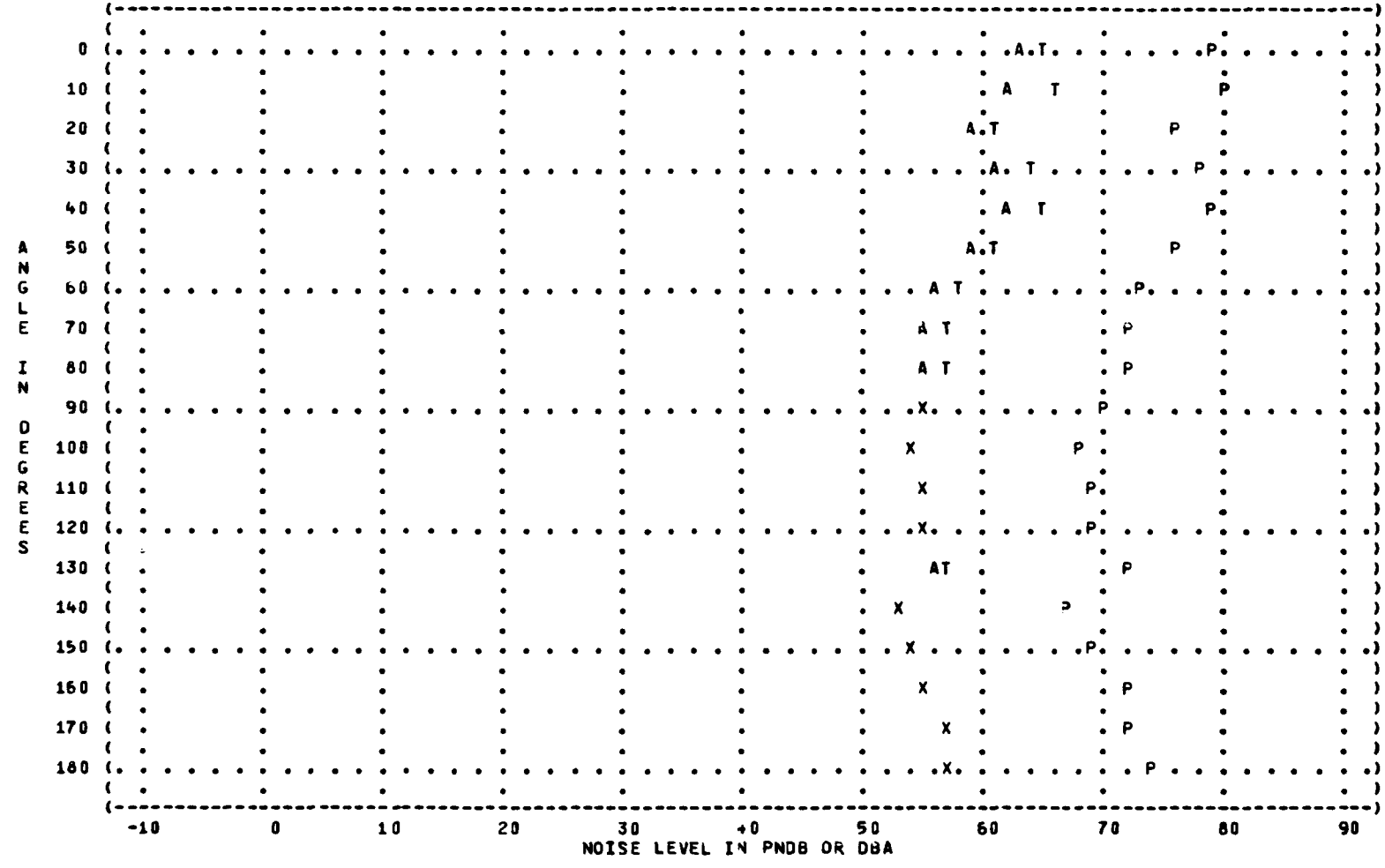


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-715-001
RUN 02

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

AIRCRAFT CODE 716
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE C2

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	77	74	79	76	79	81	82	83	83	79	78	79	84	86	89	93	93	96	95
63	71	69	71	72	70	72	73	77	77	76	79	81	83	80	81	87	88	91	89
80	70	66	67	67	68	67	68	72	74	76	75	75	79	79	79	76	79	84	81
100	71	68	66	68	68	66	66	69	69	72	74	74	75	75	73	72	73	76	75
125	68	66	65	65	64	62	63	65	64	68	71	71	70	72	71	70	69	69	69
160	65	60	60	63	61	60	62	62	60	62	65	67	69	70	69	66	65	66	72
200	57	56	56	59	57	56	57	57	56	57	62	62	68	71	69	61	60	66	71
250	61	61	60	60	58	55	56	57	54	54	57	59	63	67	66	62	61	65	70
315	65	57	60	59	56	52	53	53	51	52	52	54	57	60	64	59	60	63	69
400	72	66	65	66	65	61	62	62	56	55	51	53	55	59	58	58	59	62	69
500	76	73	72	71	73	73	69	69	64	60	58	56	58	59	60	61	59	64	67
630	72	70	68	67	71	71	64	65	53	59	56	56	58	60	61	60	59	62	75
800	65	63	62	63	65	64	63	61	59	58	56	57	58	59	60	58	59	62	68
1000	65	64	62	63	64	62	59	62	57	56	56	57	59	59	61	59	59	62	69
1250	67	66	63	64	66	62	61	62	58	56	55	57	59	60	63	61	62	62	70
1600	67	67	64	64	65	62	61	59	58	56	54	57	53	61	63	58	56	59	72
2000	60	61	58	59	59	56	54	54	54	52	53	57	60	62	66	55	54	58	67
2500	53	52	52	53	53	50	49	48	50	51	52	55	59	57	58	53	53	56	70
3150	49	47	47	49	48	47	48	48	50	50	49	54	54	54	55	52	52	54	65
4000	45	45	44	46	46	44	45	45	48	49	49	52	51	53	55	51	51	53	64
5000	46	47	45	50	49	43	44	43	47	49	59	51	50	52	52	51	50	52	64
6300	48	48	45	50	46	43	44	43	45	48	57	46	48	50	52	48	48	50	66
8000	50	48	46	46	45	43	45	44	47	47	46	47	48	49	55	47	46	49	66
10000	46	45	44	44	44	45	46	42	45	44	45	45	45	46	51	47	44	46	60
OVERALL	83	80	81	80	82	83	83	84	85	83	84	85	83	88	91	94	94	98	97

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 02
AIRCRAFT CODE 716
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE D2

DISTANCE	ANGLE (DEGREES)																		
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	90.6	88.3	86.9	87.3	88.1	87.0	85.1	85.6	84.8	83.6	86.1	86.4	88.4	89.8	92.3	92.2	92.3	95.7	99.2
250	88.4	86.1	84.7	85.1	85.9	84.8	82.8	83.4	82.3	81.2	83.7	83.9	86.0	87.2	89.8	90.1	90.1	93.5	97.0
315	86.2	83.9	82.5	82.8	83.7	82.6	80.6	81.1	79.8	78.7	81.2	81.4	83.5	84.7	87.2	87.9	87.9	91.4	94.8
400	84.0	81.7	80.2	80.6	81.4	80.3	78.2	78.8	77.2	76.2	78.6	78.8	80.9	82.1	84.6	85.2	85.2	89.2	92.5
500	81.7	79.3	77.9	78.2	79.1	78.0	75.9	76.5	74.9	73.7	75.9	76.2	78.3	79.4	81.9	82.4	82.5	86.8	89.9
630	79.3	77.0	75.5	75.8	76.8	75.6	73.5	74.1	71.8	71.1	73.0	73.5	75.6	76.8	79.1	79.7	79.7	84.1	87.1
800	76.9	74.5	73.1	73.4	74.3	73.2	71.0	71.6	69.1	68.4	70.0	70.7	72.9	74.1	76.4	76.8	76.9	81.2	84.3
1000	74.4	72.0	70.5	70.8	71.8	70.6	68.4	69.0	66.4	65.5	66.7	67.8	70.0	71.2	73.5	73.9	74.0	78.3	81.3
1250	71.7	69.2	67.8	68.0	69.0	67.9	65.6	66.2	63.9	62.1	63.4	64.7	66.9	68.1	70.5	70.9	71.0	75.3	78.3
1500	68.9	66.4	64.9	65.1	66.2	65.1	62.6	63.2	60.4	58.6	59.4	60.9	63.3	64.8	67.2	67.6	67.7	72.1	75.0
2000	65.9	63.4	61.9	62.0	63.2	62.1	59.5	60.1	56.9	54.8	54.9	56.6	59.4	61.1	63.5	63.3	63.4	67.3	70.9
2500	62.7	60.2	58.5	58.6	59.9	58.8	55.9	56.5	53.0	50.5	50.1	51.9	55.0	56.5	59.2	58.4	58.4	63.0	66.6
3150	58.6	56.0	54.2	54.3	55.6	54.4	51.3	52.1	47.8	45.0	44.8	46.2	49.6	51.5	54.4	52.7	52.8	57.5	62.6
4000	54.1	51.5	49.6	49.6	51.2	50.0	46.5	46.8	42.3	38.5	37.5	39.1	43.2	45.2	48.7	45.3	45.2	50.9	57.9
5000	49.4	46.8	44.7	44.4	46.3	45.3	41.1	41.4	36.3	32.4	30.0	31.8	34.4	37.4	40.9	36.9	37.1	42.4	52.3
6300	44.1	41.3	39.0	38.8	40.8	39.8	35.3	35.8	29.8	24.0	20.4	23.0	26.6	28.1	32.9	28.3	29.7	33.9	46.2
8000	39.6	36.5	34.0	33.9	36.1	34.9	30.6	30.8	22.7	15.4	10.7	10.3	15.7	19.5	23.5	20.4	19.4	27.1	41.1
10000	34.4	31.1	27.9	28.1	30.7	29.1	23.6	24.3	14.6	6.8	1.1		4.8	10.3	8.3	7.5	9.2	18.5	34.8
12500	28.2	24.2	21.1	20.2	23.5	23.3	14.6	16.6	6.4					2.3				9.8	27.6
16000	22.0	16.5	12.1	11.2	15.7	15.5	6.8	7.7										1.1	17.0
20000	11.3	8.8	3.1	2.2	7.8	7.6													6.8
25000	.6	1.1																	

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 02
AIRCRAFT CODE 716
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	92.0	90.2	88.6	88.8	89.8	88.9	87.0	87.6	86.0	83.6	88.2	86.4	88.4	89.8	94.2	93.3	93.7	95.7	101.8
250	89.6	88.0	86.4	86.6	87.6	86.7	84.7	85.3	83.2	81.2	85.7	83.9	86.0	87.2	91.7	91.2	91.6	93.5	99.5
315	87.6	85.8	84.2	84.4	85.4	84.5	82.5	83.1	80.9	78.7	83.3	81.4	83.5	84.7	89.1	88.9	89.4	91.4	97.4
400	85.3	83.6	81.9	82.1	83.1	82.2	80.2	80.8	78.3	76.2	80.7	78.8	80.9	82.1	86.5	86.2	86.7	89.2	95.1
500	83.0	81.3	79.6	79.8	80.8	79.9	77.8	78.4	75.7	73.7	78.0	76.2	78.3	79.4	83.8	83.5	84.0	86.8	92.5
630	80.7	78.9	77.2	77.4	78.4	77.6	75.4	76.0	73.0	71.1	75.1	73.5	75.6	76.9	81.0	80.7	81.2	84.1	89.7
800	78.3	76.4	74.8	74.9	76.0	75.1	72.9	73.5	70.3	68.4	72.1	70.7	72.9	74.1	78.3	77.9	78.4	81.2	86.9
1000	75.8	73.9	72.2	72.4	73.4	72.6	70.3	70.9	67.6	65.5	68.8	67.8	70.0	71.2	75.5	75.0	75.5	78.3	83.9
1250	73.1	71.1	69.5	69.6	70.7	69.9	67.5	68.2	64.7	62.1	65.4	64.7	66.9	68.1	72.4	71.9	72.4	75.3	80.9
1600	70.3	68.3	66.6	66.6	67.9	67.1	64.5	65.2	61.6	58.6	61.5	60.9	63.3	64.8	69.1	68.7	69.1	72.1	77.6
2000	67.3	65.3	63.5	63.5	64.9	64.1	61.4	62.0	58.1	54.8	58.9	58.6	59.4	61.1	65.4	64.3	64.8	67.9	73.5
2500	64.1	62.1	60.2	60.1	61.6	60.7	57.8	58.4	54.2	50.5	52.2	51.9	55.0	56.5	61.1	59.4	59.9	63.0	69.2
3150	60.0	57.9	55.9	55.8	57.3	56.3	53.2	54.1	48.9	45.0	46.8	46.2	49.6	51.5	56.3	53.8	54.2	57.5	65.2
4000	55.2	53.1	50.9	50.8	52.5	51.6	48.0	48.4	43.3	38.5	39.1	39.1	43.2	45.2	50.3	46.1	46.4	50.9	59.9
5000	50.2	47.9	45.7	45.3	47.3	46.5	42.2	42.6	37.0	32.4	31.2	31.8	34.4	37.4	42.1	37.5	38.0	42.4	53.9
6300	44.6	42.1	39.7	39.4	41.5	40.6	36.0	36.6	30.3	24.0	21.2	23.0	26.6	26.1	33.6	28.7	30.3	33.9	47.3
8000	39.9	36.8	34.4	34.2	36.4	35.2	31.0	31.1	23.0	15.4	11.1	10.3	15.7	19.5	23.9	20.6	19.7	27.1	41.5
10000	34.4	31.1	27.9	28.1	30.7	29.1	23.6	24.3	14.6	6.8	1.1		4.8	10.3	8.3	7.5	9.2	18.5	34.8
12500	28.2	24.2	21.1	20.2	23.5	23.3	14.6	16.6	6.4					2.3				9.8	27.6
16000	22.0	16.5	12.1	11.2	15.7	15.5	6.8	7.7										1.1	17.0
20000	11.3	8.8	3.1	2.2	7.8	7.6													6.8
25000	.6	1.1																	

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 02
AIRCRAFT CODE 716
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE F2

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	79.4	77.5	75.4	75.5	77.2	76.2	73.0	73.2	70.4	68.7	69.7	70.0	72.1	73.3	75.3	72.3	72.5	75.3	82.9
250	77.3	75.4	73.3	73.4	75.2	74.2	70.9	71.1	68.3	65.5	67.5	67.9	70.0	71.1	73.1	70.3	70.4	73.3	80.7
315	75.2	73.3	71.3	71.4	73.1	72.1	68.8	69.0	66.2	64.4	65.2	65.7	67.9	69.0	71.0	68.2	68.3	71.2	78.5
400	73.1	71.2	69.1	69.2	71.0	70.0	66.7	66.9	64.1	62.3	62.9	63.2	65.7	66.8	68.8	66.1	66.2	69.1	76.3
500	71.0	69.0	67.0	67.1	68.8	67.9	64.5	64.8	61.9	60.1	60.6	61.3	63.4	64.5	66.5	63.9	64.1	67.0	74.0
630	68.9	66.8	64.8	64.9	66.6	65.7	62.4	62.6	59.7	57.8	58.1	59.0	61.1	62.3	64.2	61.7	61.9	64.8	71.7
800	66.7	64.6	62.6	62.7	64.4	63.6	60.1	60.4	57.4	55.5	55.6	56.6	58.8	59.9	61.8	59.5	59.7	62.6	69.3
1000	64.4	62.3	60.3	60.4	62.2	61.3	57.9	58.1	55.1	53.1	53.0	54.1	56.3	57.3	59.3	57.2	57.4	60.4	66.9
1250	62.1	60.0	58.0	58.0	59.8	59.0	55.5	55.8	52.7	50.6	50.3	51.4	53.6	54.7	56.7	54.8	55.1	58.0	64.4
1600	59.8	57.6	55.6	55.6	57.4	56.7	53.1	53.4	50.2	47.9	47.4	48.6	50.8	51.9	53.9	52.2	52.4	55.4	61.7
2000	57.3	55.0	53.1	53.1	54.9	54.3	50.6	50.9	47.6	45.2	44.4	45.5	47.8	48.9	50.9	49.3	49.4	52.4	59.0
2500	54.5	52.3	50.4	50.3	52.2	51.6	47.8	48.1	44.8	42.2	41.2	42.3	44.5	45.5	47.7	46.0	46.2	49.1	56.0
3150	51.3	49.1	47.2	47.1	49.1	48.6	44.7	45.0	41.6	38.9	37.8	38.8	41.0	42.0	44.2	42.5	42.6	45.5	52.8
4000	47.6	45.5	43.5	43.5	45.6	45.1	41.1	41.4	38.0	35.3	34.1	35.1	37.1	38.1	40.3	38.6	38.7	41.6	49.1
5000	43.4	41.4	39.4	39.4	41.5	41.0	37.0	37.3	34.0	31.3	30.0	31.0	33.0	33.9	36.1	34.3	34.4	37.3	45.0
6300	39.1	37.0	35.0	35.1	37.2	36.7	32.7	33.0	29.6	27.0	25.7	26.5	28.6	29.4	31.5	29.9	30.0	32.9	40.5
8000	35.4	33.2	31.3	31.3	33.4	33.1	28.9	29.3	25.8	23.1	21.8	22.5	24.5	25.3	27.2	26.2	26.3	29.3	36.5
10000	31.5	29.2	27.3	27.3	29.4	29.2	24.9	25.2	21.7	18.9	17.7	18.2	20.2	21.1	22.8	22.5	22.6	25.8	32.3
12500	27.3	24.8	23.0	22.9	25.0	24.8	20.5	20.9	17.4	14.5	13.5	13.9	15.9	16.8	18.3	18.9	19.1	22.4	27.8
16000	22.6	20.0	18.3	18.0	20.1	20.0	15.7	16.1	12.7	10.0	9.2	9.6	11.8	12.7	14.1	15.6	15.8	19.2	23.0
20000	17.4	14.6	13.0	12.7	14.7	14.7	10.4	11.0	7.8	5.4	5.2	5.7	8.1	8.9	10.4	12.6	12.9	16.2	18.3
25000	11.5	8.6	7.1	6.8	8.6	8.6	4.8	5.6	3.1	1.2	1.5	2.2	4.7	5.5	7.0	9.8	10.1	13.5	14.0

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 02
AIRCRAFT CODE 716
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE G2

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	80.7	79.4	77.1	77.1	78.9	78.2	74.3	75.1	71.6	68.7	71.7	70.0	72.1	73.3	77.2	73.4	73.9	75.3	85.5
250	78.7	77.3	75.0	75.0	76.8	76.1	72.0	73.1	69.0	65.5	69.5	67.9	70.0	71.1	75.0	71.3	71.8	73.3	83.3
315	76.6	75.2	72.9	72.9	74.8	74.1	70.7	71.0	67.4	64.4	67.3	65.7	67.9	69.0	72.9	69.2	69.8	71.2	81.1
400	74.5	73.1	70.8	70.8	72.6	72.0	68.6	68.9	65.2	62.3	65.0	63.5	65.7	66.8	70.7	67.1	67.7	69.1	78.9
500	72.4	70.9	68.7	68.6	70.5	69.8	66.4	66.7	63.1	60.1	62.6	61.3	63.4	64.0	68.4	65.0	65.5	67.0	76.6
630	70.2	68.7	66.5	66.5	68.3	67.7	64.3	64.6	60.8	57.8	60.2	59.0	61.1	62.3	66.1	62.8	63.3	64.8	74.3
800	68.0	66.5	64.3	64.2	66.1	65.5	62.0	62.4	58.6	55.5	57.7	56.6	58.8	59.9	63.7	60.5	61.1	62.6	71.9
1000	65.8	64.2	62.0	61.9	63.8	63.3	59.8	60.1	56.3	53.1	55.1	54.1	56.3	57.3	61.2	58.3	58.9	60.4	69.5
1250	63.5	61.9	59.7	59.6	61.5	61.0	57.4	57.8	53.9	50.6	52.4	51.4	53.6	54.7	58.6	55.9	56.5	58.0	67.0
1600	61.1	59.5	57.3	57.2	59.1	58.6	55.0	55.4	51.4	47.9	49.5	48.6	50.8	51.9	55.8	53.3	53.9	55.4	64.3
2000	58.7	56.9	54.8	54.6	56.6	56.2	52.5	52.8	48.7	45.2	46.5	45.5	47.8	48.8	52.8	50.3	50.9	52.4	61.6
2500	55.9	54.2	52.0	51.9	53.9	53.6	49.7	50.1	45.9	42.2	43.3	42.3	44.5	45.5	49.6	47.1	47.6	49.1	58.6
3150	52.6	51.0	48.8	48.7	50.8	50.6	46.6	46.9	42.8	38.9	39.9	38.8	41.0	42.0	46.1	43.5	44.0	45.5	55.4
4000	48.7	47.0	44.9	44.8	46.9	46.6	42.6	43.0	39.0	35.3	35.7	35.1	37.1	38.1	41.9	39.4	39.8	41.6	51.2
5000	44.3	42.5	40.4	40.4	42.5	42.2	38.2	38.5	34.7	31.3	31.3	31.0	33.0	33.9	37.2	35.0	35.3	37.3	46.5
6300	39.6	37.8	35.7	35.7	37.8	37.5	33.4	33.8	30.1	27.0	26.5	26.5	28.6	29.4	32.3	30.3	30.6	32.9	41.6
8000	35.7	33.6	31.7	31.6	33.8	33.5	29.3	29.7	26.1	23.1	22.2	22.5	24.5	25.3	27.6	26.4	26.6	29.3	37.1
10000	31.5	29.2	27.3	27.3	29.4	29.2	24.9	25.2	21.7	18.9	17.7	18.2	20.2	21.1	22.8	22.5	22.6	25.8	32.3
12500	27.3	24.8	23.0	22.9	25.0	24.8	20.2	20.9	17.4	14.5	13.5	13.9	15.9	15.8	18.3	18.9	19.1	22.4	27.8
16000	22.6	20.0	18.3	18.0	20.1	20.0	15.7	16.1	12.7	10.0	9.2	9.6	11.8	12.7	14.1	15.6	15.8	19.2	23.0
20000	17.4	14.6	13.0	12.7	14.7	14.7	10.4	11.0	7.8	5.4	5.2	5.7	8.1	8.9	10.4	12.6	12.9	16.2	18.3
25000	11.5	8.6	7.1	6.8	8.6	8.6	4.8	5.6	3.1	1.2	1.5	2.2	4.7	5.5	7.0	9.8	10.1	13.5	14.0

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE			IDENTIFICATION:
DISTANCE = 250 FEET			OMEGA 8.2
			TEST BF-716-001
NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:	RUN 02
J73-P-19 ENGINE IN THE	MILITARY POWER (103%)	TEMP = 59 F	AIRCRAFT CODE 716
TEXAS ASE HUSH HOUSE	SINGLE ENGINE	BAR PRESS =29.92 IN HG	OPERATION CODE 00104
	GROUND RUNUP IN THE	REL HUMID = 70 %	PROFILE VERSION A
	TEXAS ASE HUSH HOUSE	DELTA N = 0.0 DB	20 NOV 81
			PAGE J2

P=PNLT A=AL T=ALT

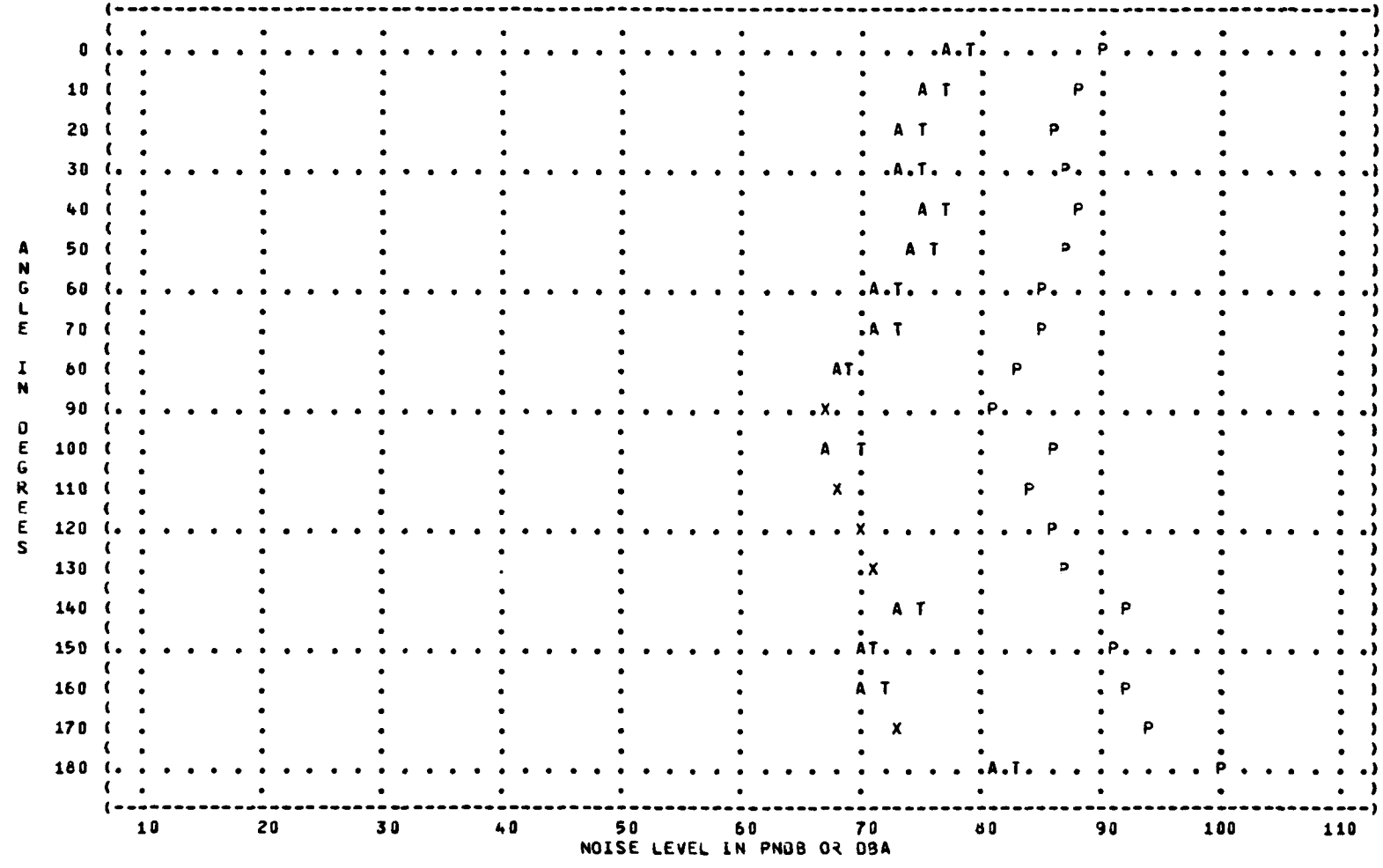


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 03
AIRCRAFT CODE 716
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE C1

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	83	83	87	86	89	92	90	92	92	91	93	96	100	102	102	104	104	106	105
63	83	82	82	85	82	88	86	89	89	90	88	92	94	99	98	100	102	103	102
80	77	77	78	80	76	78	77	82	85	87	90	92	93	92	88	91	95	96	94
100	79	74	74	73	74	75	74	76	79	85	84	85	87	89	85	84	84	86	82
125	74	70	71	71	70	70	69	69	73	77	78	80	79	80	79	78	80	79	76
160	70	65	67	67	65	65	66	67	68	72	75	74	75	78	76	72	75	75	72
200	64	63	64	65	62	62	62	64	64	67	71	75	71	74	71	70	71	72	71
250	66	64	63	64	62	60	61	61	62	64	66	70	72	71	70	69	70	70	69
315	66	59	61	60	59	57	56	58	53	61	61	64	67	68	64	66	66	68	68
400	71	63	64	64	64	63	59	61	58	61	61	63	67	64	63	65	65	67	66
500	76	71	71	72	70	72	64	67	63	63	62	64	68	63	64	66	66	67	65
630	70	67	68	68	68	69	62	65	63	63	63	65	68	64	65	66	66	67	64
800	67	63	64	64	64	65	63	61	63	64	64	65	68	63	65	66	66	67	63
1000	69	66	65	65	66	65	62	62	62	63	63	65	67	63	66	66	67	67	63
1250	71	68	66	67	66	65	64	63	62	62	61	65	66	65	67	69	70	68	64
1600	72	70	68	67	67	65	64	62	62	62	60	64	66	66	68	66	65	66	62
2000	65	65	63	63	62	60	59	58	59	59	59	63	65	65	65	61	61	62	59
2500	56	55	56	58	57	54	53	53	56	57	58	61	64	59	60	58	59	59	56
3150	49	49	49	50	50	50	51	51	55	55	56	60	60	56	57	57	57	58	55
4000	49	49	47	48	48	47	51	51	53	54	55	58	57	56	57	56	56	57	55
5000	52	51	48	49	48	47	48	48	52	53	53	55	54	54	54	54	53	55	53
6300	52	50	47	48	47	46	48	47	50	52	51	53	53	53	53	52	52	53	51
8000	51	50	46	47	47	48	46	47	50	52	52	53	53	58	53	53	52	53	52
10000	49	47	45	46	46	45	47	47	48	49	51	52	52	53	51	52	51	52	52
OVERALL	86	87	89	89	91	94	92	94	94	95	96	99	102	104	104	106	107	108	107

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 03
AIRCRAFT CODE 716
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	94.0	91.4	90.9	91.1	91.9	93.1	91.7	93.1	93.6	94.2	95.6	98.3	100.7	101.5	101.3	102.6	102.8	104.4	103.0
250	91.7	89.1	88.5	88.8	89.4	90.9	89.4	90.9	91.4	92.0	93.5	96.2	98.6	99.4	99.2	100.5	100.8	102.4	100.9
315	89.5	86.8	86.2	86.5	86.8	88.5	86.8	88.6	89.0	89.7	91.3	94.0	96.5	97.3	97.1	98.4	98.7	100.3	98.9
400	87.1	84.5	83.8	84.1	84.2	85.9	84.1	86.0	86.4	87.4	88.9	91.9	94.4	95.2	94.9	96.3	96.6	98.2	96.7
500	84.7	82.1	81.4	81.7	81.6	83.3	81.4	83.3	83.7	84.8	86.4	89.5	92.2	93.0	92.8	94.1	94.4	96.0	94.6
630	82.3	79.6	78.9	79.2	78.9	80.5	78.7	80.5	81.0	82.2	83.8	86.7	89.9	90.7	90.5	91.9	92.2	93.8	92.4
800	79.7	77.0	76.4	76.6	76.1	77.8	75.9	77.7	78.2	79.4	81.1	84.0	87.4	88.4	88.2	89.7	89.9	91.6	90.2
1000	77.1	74.3	73.7	73.9	73.4	74.9	73.0	74.9	75.4	76.5	78.3	81.2	84.5	85.7	85.7	87.4	87.6	89.3	87.9
1250	74.2	71.5	70.8	71.1	70.5	72.0	70.0	71.8	72.4	73.5	74.9	77.9	81.4	82.7	82.6	84.8	84.9	86.9	85.5
1500	71.2	68.4	67.7	68.1	67.4	68.8	66.7	68.6	68.9	69.7	71.2	74.6	78.2	79.4	79.4	81.6	81.8	84.1	82.5
2000	68.2	64.9	64.5	64.9	63.9	64.8	62.6	64.4	64.7	65.4	67.0	70.4	74.0	75.1	75.2	77.3	77.5	79.8	78.2
2500	64.7	61.1	60.9	61.4	60.2	61.1	57.9	59.8	60.0	60.7	62.3	65.7	69.3	70.3	70.4	72.5	72.6	74.9	73.2
3150	60.6	56.8	56.6	57.0	55.9	56.8	53.0	54.4	54.5	55.2	56.8	60.4	64.0	64.8	64.9	67.0	67.2	69.5	67.7
4000	56.0	51.9	51.9	52.3	51.0	51.8	46.8	48.5	47.6	48.8	49.9	54.2	57.9	58.5	58.7	60.8	60.9	63.2	61.3
5000	50.6	45.7	45.9	46.4	44.8	46.0	40.1	42.2	40.8	42.3	43.2	46.5	51.0	51.5	51.8	53.9	54.1	56.3	54.2
6300	45.2	40.1	39.9	40.4	38.7	40.1	33.5	35.9	33.7	35.3	35.7	39.4	42.6	43.1	43.1	46.0	46.4	48.9	46.6
8000	40.6	35.4	35.2	35.6	33.7	34.8	26.6	29.4	25.7	27.2	27.3	33.2	36.8	37.1	37.9	40.9	41.3	44.1	41.5
10000	35.3	29.1	29.1	29.5	27.4	28.5	17.1	21.6	16.9	17.5	18.5	24.0	30.5	30.4	31.1	35.3	35.8	38.8	36.3
12500	28.9	20.2	20.8	21.5	18.3	21.3	7.0	13.8	8.2	7.7	9.7	12.5	21.9	22.3	22.9	29.2	29.6	33.0	30.3
16000	20.9	11.2	11.8	12.3	9.0	12.1		5.9			.8	.9	9.6	15.4	16.3	22.1	23.1	27.2	24.8
20000	11.3	2.2	2.7	3.5		3.0								9.5	8.8	16.1	16.8	21.9	19.0
25000	1.6													3.5	1.4	8.4	11.1	14.9	12.9

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 03
AIRCRAFT CODE 716
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	95.8	93.1	92.5	92.8	93.0	94.8	92.7	94.3	93.5	94.2	95.6	98.3	100.7	102.3	101.3	102.6	104.3	104.4	103.0
250	93.6	90.8	90.0	90.5	90.5	92.7	90.4	92.2	91.4	92.0	93.5	96.2	98.6	100.2	99.2	100.5	102.3	102.4	100.9
315	91.3	88.5	87.7	88.2	87.9	90.3	87.8	89.8	89.0	89.7	91.3	94.0	96.5	98.1	97.1	98.4	100.2	100.3	98.9
400	89.0	86.2	85.4	85.8	85.3	87.6	85.2	87.2	86.4	87.4	88.9	91.9	94.4	95.3	94.9	96.3	98.1	98.2	96.7
500	86.6	83.8	83.0	83.4	82.7	85.0	82.5	84.5	83.7	84.8	86.4	89.5	92.2	93.8	92.8	94.1	95.9	96.0	94.6
630	84.2	81.3	80.5	80.9	80.0	82.3	79.7	81.8	81.0	82.2	83.8	86.7	89.9	91.5	90.5	91.9	93.7	93.8	92.4
800	81.6	78.7	77.9	78.3	77.3	79.5	77.0	79.0	78.2	79.4	81.1	84.0	87.4	89.2	88.2	89.7	91.4	91.6	90.2
1000	78.9	76.0	75.2	75.6	74.5	76.7	74.1	76.1	75.4	76.5	78.3	81.2	84.5	86.5	85.7	87.4	89.1	89.3	87.9
1250	76.1	73.2	72.3	72.8	71.6	73.7	71.0	73.1	72.4	73.5	74.9	77.9	81.4	83.5	82.6	84.8	86.4	86.9	85.6
1600	73.1	70.0	69.2	69.8	68.5	70.5	67.8	69.6	68.9	69.7	71.2	74.6	78.2	80.2	79.4	81.6	83.3	84.1	82.5
2000	70.1	66.6	66.0	66.6	65.1	66.5	63.6	65.7	64.7	65.4	67.0	70.4	74.0	75.9	75.2	77.3	79.0	79.8	78.2
2500	66.6	62.8	62.5	63.1	61.3	62.9	59.0	61.0	60.0	60.7	62.3	65.7	69.3	71.1	70.4	72.5	74.1	74.9	73.2
3150	62.4	58.5	58.2	58.7	57.0	58.6	54.1	55.6	54.5	55.2	56.8	60.4	64.0	65.6	64.9	67.0	68.7	69.5	67.7
4000	57.6	53.3	53.1	53.7	51.9	53.1	47.7	49.5	47.6	48.8	49.9	54.2	57.9	59.2	58.7	60.8	62.2	63.2	61.3
5000	51.7	46.8	46.8	47.4	45.5	47.0	40.7	43.0	40.8	42.3	43.2	46.5	51.0	52.1	51.8	53.9	55.0	56.3	54.2
6300	46.0	40.8	40.5	41.1	39.2	40.8	33.9	36.4	33.7	35.3	35.7	39.4	42.6	43.4	43.1	46.0	47.0	48.9	46.6
8000	41.0	35.7	35.5	35.9	34.0	35.1	26.8	29.7	25.7	27.2	27.3	33.2	36.8	37.3	37.9	40.9	41.6	44.1	41.5
10000	35.3	29.1	29.1	29.5	27.4	28.5	17.1	21.6	16.9	17.5	18.5	24.0	30.5	30.4	31.1	35.3	35.8	38.8	36.3
12500	28.9	20.2	20.8	21.5	18.3	21.3	7.0	13.8	8.2	7.7	9.7	12.5	21.9	22.3	22.9	29.2	29.6	33.0	30.3
16000	20.9	11.2	11.8	12.5	9.0	12.1		5.9			.8	.9	9.6	15.4	16.3	22.1	23.1	27.2	24.8
20000	11.3	2.2	2.7	3.5		3.0								9.5	8.8	16.1	16.8	21.9	19.0
25000	1.6													3.5	1.4	8.4	11.1	14.9	12.9

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 03
AIRCRAFT CODE 716
OPERATION CODE 80103
PROFILE VERSION A
20 NOV 81
PAGE F1

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	81.3	78.3	77.5	77.7	77.2	77.0	74.3	74.8	75.1	76.3	76.9	79.4	81.0	81.3	80.9	81.9	83.1	84.0	82.5
250	79.2	76.2	75.4	75.6	75.1	74.9	72.2	72.8	73.0	74.2	74.8	77.3	79.0	79.2	78.8	79.9	81.0	82.0	80.4
315	77.1	74.1	73.3	73.5	73.0	72.8	70.1	70.7	70.9	72.1	72.7	75.3	76.9	77.2	76.7	77.9	79.0	80.0	78.4
400	75.0	71.9	71.1	71.4	70.8	70.7	68.0	68.6	68.8	70.0	70.6	73.2	74.8	75.1	74.7	75.8	76.9	77.9	76.4
500	72.6	69.8	69.0	69.2	68.7	68.6	65.8	66.4	66.6	67.9	68.5	71.0	72.7	73.0	72.5	73.7	74.9	75.9	74.3
630	70.6	67.5	66.8	67.0	66.5	66.4	63.6	64.3	64.4	65.7	66.3	68.8	70.5	70.9	70.4	71.6	72.8	73.8	72.3
800	68.4	65.2	64.5	64.7	64.2	64.2	61.3	62.1	62.2	63.4	64.0	66.5	68.3	68.7	68.2	69.5	70.6	71.7	70.2
1000	66.0	62.9	62.2	62.4	61.9	61.9	59.0	59.8	59.9	61.0	61.6	64.2	66.0	66.4	65.9	67.3	68.5	69.6	68.1
1250	63.6	60.4	59.7	60.0	59.5	59.6	56.5	57.4	57.4	58.4	59.0	61.5	63.5	63.9	63.5	65.0	66.2	67.3	65.9
1600	61.1	57.8	57.2	57.5	56.9	57.1	54.0	54.8	54.6	55.5	56.1	58.6	60.7	61.1	60.8	62.4	63.4	64.5	63.2
2000	58.5	55.1	54.6	54.8	54.3	54.5	51.1	52.0	51.6	52.5	52.9	55.5	57.6	57.9	57.7	59.2	60.2	61.3	59.9
2500	55.7	52.2	51.7	51.9	51.4	51.7	48.1	49.0	48.4	49.2	49.5	52.1	54.3	54.2	54.3	55.7	56.6	57.7	56.2
3150	52.4	49.0	48.5	48.7	48.2	48.4	44.8	45.6	45.0	45.6	45.8	48.4	50.6	50.2	50.5	51.9	52.7	53.7	52.2
4000	48.7	45.3	44.8	45.0	44.6	44.8	41.2	41.8	41.2	41.7	41.9	44.3	46.6	45.8	46.3	47.7	48.4	49.3	47.7
5000	44.6	41.2	40.7	41.0	40.5	40.7	37.1	37.7	37.0	37.6	37.7	40.1	42.3	41.2	41.9	43.3	43.9	44.7	42.9
6300	40.1	36.8	36.3	36.6	36.2	36.4	32.7	33.3	32.6	33.2	33.3	35.7	37.9	36.6	37.3	38.7	39.4	40.1	38.3
8000	36.2	32.6	32.4	32.6	32.2	32.6	28.7	29.6	28.8	29.5	29.7	32.0	34.3	33.5	33.9	35.5	36.2	37.2	35.6
10000	31.9	28.2	28.2	28.4	27.9	28.6	24.5	25.7	24.9	25.6	26.0	28.4	30.8	30.5	30.6	32.4	33.2	34.4	33.0
12500	27.4	23.5	23.7	24.0	23.4	24.4	20.1	21.8	21.0	21.8	22.4	24.8	27.3	27.8	27.5	29.5	30.4	31.7	30.5
16000	22.6	18.5	19.0	19.2	18.6	20.0	15.8	17.9	17.3	18.1	19.1	21.5	24.1	25.1	24.7	26.7	27.7	29.2	28.1
20000	17.4	13.3	14.0	14.2	13.7	15.5	11.9	14.2	13.9	14.8	16.0	18.5	21.1	22.5	22.0	24.2	25.1	26.7	25.6
25000	11.9	8.0	8.9	9.2	8.9	11.3	8.4	10.9	10.9	11.7	13.1	15.6	18.2	20.0	19.5	21.6	22.6	24.1	23.2

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 03
AIRCRAFT CODE 716
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE G1

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	83.2	80.0	79.0	79.4	78.3	78.7	75.4	76.1	75.1	75.3	76.9	79.4	81.0	82.1	80.9	81.9	84.6	84.0	82.5
250	81.1	77.9	76.9	77.3	76.2	76.7	73.3	74.0	73.0	74.2	74.8	77.3	79.0	80.0	78.8	79.9	82.5	82.0	80.4
315	79.0	75.8	74.8	75.2	74.1	74.6	71.2	71.9	70.9	72.1	72.7	75.3	76.9	78.0	76.7	77.9	80.5	80.0	78.4
400	76.9	73.6	72.7	73.1	72.0	72.5	69.0	69.8	68.8	70.0	70.6	73.2	74.8	75.9	74.7	75.8	78.4	77.9	76.4
500	74.7	71.5	70.5	70.9	69.8	70.3	66.8	67.7	66.6	67.9	68.5	71.0	72.7	73.3	72.5	73.7	76.4	75.9	74.3
630	72.5	69.2	68.3	68.7	67.6	68.2	64.6	65.5	64.4	65.7	66.3	68.8	70.5	71.6	70.4	71.6	74.3	73.8	72.3
800	70.3	66.9	66.0	66.4	65.3	65.9	62.4	63.3	62.2	63.4	64.0	66.5	68.3	69.4	68.2	69.5	72.2	71.7	70.2
1000	67.9	64.6	63.7	64.1	63.0	63.7	60.0	61.0	59.9	61.0	61.6	64.2	66.0	67.2	65.9	67.3	70.0	69.6	68.1
1250	65.5	62.1	61.3	61.7	60.6	61.3	57.6	58.7	57.4	58.4	59.0	61.5	63.5	64.7	63.5	65.0	67.7	67.3	65.9
1600	63.0	59.5	58.8	59.2	58.1	58.9	55.0	56.1	54.8	55.5	56.1	58.6	60.7	61.9	60.8	62.4	64.9	64.5	63.2
2000	60.4	56.8	56.1	56.5	55.4	56.2	52.2	53.2	51.8	52.5	52.9	55.5	57.6	58.5	57.7	59.2	61.7	61.3	59.9
2500	57.5	53.9	53.2	53.6	52.5	53.4	49.2	50.2	48.4	49.2	49.5	52.1	54.3	54.9	54.3	55.7	58.1	57.7	56.2
3150	54.2	50.6	50.0	50.4	49.3	50.2	45.9	46.8	45.0	45.6	45.8	48.4	50.6	51.0	50.5	51.9	54.2	53.7	52.2
4000	50.2	46.7	46.1	46.4	45.5	46.2	42.0	42.8	41.2	41.7	41.9	44.3	46.6	46.4	46.3	47.7	49.6	49.3	47.7
5000	45.7	42.2	41.6	42.0	41.2	41.8	37.7	38.4	37.0	37.6	37.7	40.1	42.3	41.7	41.9	43.3	44.8	44.7	42.9
6300	40.9	37.5	36.9	37.3	36.6	37.1	33.1	33.8	32.6	33.2	33.3	35.7	37.9	36.9	37.3	38.7	40.0	40.1	38.3
8000	36.5	33.0	32.7	33.0	32.4	33.0	28.9	29.8	28.8	29.5	29.7	32.0	34.3	33.5	33.9	35.5	36.5	37.2	35.6
10000	31.9	28.2	28.2	28.4	27.9	28.6	24.5	25.7	24.9	25.6	26.0	28.4	30.8	30.6	30.6	32.4	33.2	34.4	33.0
12500	27.4	23.5	23.7	24.0	23.4	24.4	20.1	21.8	21.0	21.8	22.4	24.8	27.3	27.8	27.5	29.5	30.4	31.7	30.5
16000	22.6	18.5	19.0	19.2	18.6	20.0	15.6	17.9	17.3	18.1	19.1	21.5	24.1	25.1	24.7	26.7	27.7	29.2	28.1
20000	17.4	13.3	14.0	14.2	13.7	15.5	11.9	14.2	13.9	14.8	16.0	18.5	21.1	22.3	22.0	24.2	25.1	26.7	25.6
25000	11.9	8.0	8.9	9.2	8.9	11.3	8.4	10.9	10.9	11.7	13.1	15.6	18.2	20.0	19.5	21.6	22.6	24.1	23.2

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

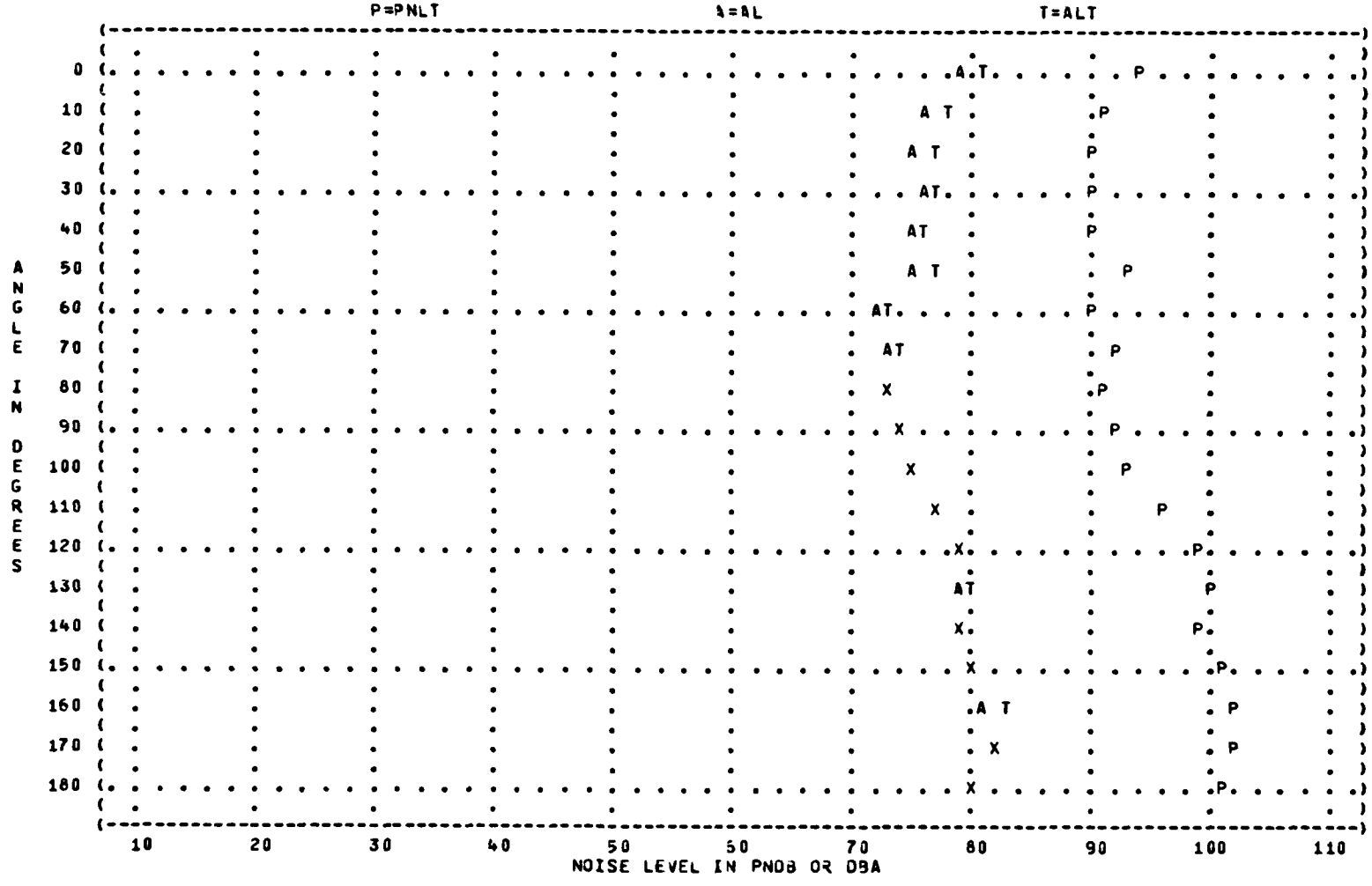
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 03
AIRCRAFT CODE 716
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE J1



NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(J75-P-17 ENG.)

DURING GROUND RUN-UP OPERATIONS

TEST BF-717-001
AIRCRAFT CODE: 717
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting	Page
Engine Runup, 90% RPM	247
Military Power, 103% RPM	253
Afterburner Power, 103% RPM	259

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 01
AIRCRAFT CODE 717
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE C3

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
90% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	63	63	63	63	63	63	63	63	63	66	65	66	66	68	71	72	72	72	72
63	61	61	61	61	61	61	61	61	61	63	63	63	66	64	62	65	65	65	65
80	60	60	60	60	60	60	60	60	60	60	58	59	61	60	58	58	58	58	58
100	58	58	58	58	58	58	58	58	58	59	57	59	58	58	56	56	56	56	56
125	54	54	54	54	54	54	54	54	54	57	59	68	59	57	57	57	57	57	57
160	49	49	49	49	49	49	49	49	49	51	50	59	52	52	52	51	51	51	51
200	45	45	45	45	45	45	45	45	45	47	46	50	49	52	53	48	48	48	48
250	43	43	43	43	43	43	43	43	43	45	44	53	47	49	51	46	46	46	46
315	37	37	37	37	37	37	37	37	37	39	39	49	42	41	42	43	43	43	43
400	35	35	35	35	35	35	35	35	35	37	38	44	43	38	39	41	41	41	41
500	35	35	35	35	35	35	35	35	35	37	37	38	41	38	42	41	41	41	41
630	36	36	36	36	36	36	36	36	36	37	36	38	39	37	41	40	40	40	40
800	38	38	38	38	38	38	38	38	38	38	37	40	38	38	46	40	40	40	40
1000	40	40	40	40	40	40	40	40	40	37	37	38	38	39	42	43	43	43	43
1250	39	39	39	39	39	39	39	39	39	37	36	37	36	38	41	42	42	42	42
1600	39	39	39	39	39	39	39	39	39	37	34	37	38	40	43	41	41	41	41
2000	44	44	44	44	44	44	44	44	44	41	44	49	42	42	42	41	41	41	41
2500	39	39	39	39	39	39	39	39	39	36	36	37	36	37	38	37	37	37	37
3150	40	40	40	40	40	40	40	40	40	34	32	34	35	36	38	38	38	38	38
4000	45	45	45	45	45	45	45	45	45	38	33	35	41	36	43	37	37	37	37
5000	39	39	39	39	39	39	39	39	39	32	30	32	36	35	42	35	35	35	35
6300	41	41	41	41	41	41	41	41	41	33	31	31	35	33	40	34	34	34	34
8000	39	39	39	39	39	39	39	39	39	33	31	31	31	35	38	33	33	33	33
10000	41	41	41	41	41	41	41	41	41	33	35	31	29	40	39	36	36	36	36
OVERALL	67	67	67	67	67	67	67	67	67	69	69	72	70	71	72	73	73	73	73

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
90% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 8F-717-001
RUN 01
AIRCRAFT CODE 717
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	67.7	68.1	73.2	63.5	66.7	71.9	70.1	70.1	70.1	70.1
250	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	65.3	65.7	70.9	67.1	66.3	69.5	67.5	67.5	67.5	67.5
315	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	62.9	63.2	68.4	64.6	63.9	67.0	64.9	64.9	64.9	64.9
400	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	60.2	60.6	65.9	62.0	61.4	64.3	62.2	62.2	62.2	62.2
500	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	57.4	57.7	63.2	59.0	58.5	61.5	59.3	59.3	59.3	59.3
630	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	54.4	54.7	60.1	56.0	55.5	58.4	56.1	56.1	56.1	56.1
800	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	51.0	51.6	56.9	52.9	52.0	55.0	52.6	52.6	52.6	52.6
1000	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	47.4	48.0	53.4	49.3	48.5	51.2	49.1	49.1	49.1	49.1
1250	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	43.0	43.8	49.3	45.2	44.3	47.1	45.2	45.2	45.2	45.2
1600	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	38.1	38.9	45.3	40.6	39.6	42.6	40.8	40.8	40.8	40.8
2000	32.6	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	30.4	31.5	40.0	33.8	32.2	36.7	34.4	34.4	34.4	34.4
2500	25.6	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	17.6	22.6	32.8	23.5	19.4	29.3	26.2	26.2	26.2	26.2
3150	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	9.3	13.9	24.8	12.7	9.5	19.5	10.6	10.6	10.6	10.6
4000	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	1.0	5.2	14.3	1.8	.3	9.2				
5000												3.7							
6300																			
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
90% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 01
AIRCRAFT CODE 717
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	69.4	71.1	77.1	71.2	70.0	73.3	70.7	70.7	70.7	70.7
250	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	67.0	68.7	74.8	69.8	67.6	70.9	68.1	68.1	68.1	68.1
315	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	64.6	66.2	72.3	66.3	65.1	68.4	65.5	65.5	65.5	65.5
400	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	62.0	63.6	69.8	63.7	62.5	65.8	62.8	62.8	62.8	62.8
500	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	59.1	60.6	67.1	60.7	59.8	63.0	59.9	59.9	59.9	59.9
630	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	56.1	57.7	64.0	57.7	56.7	59.9	56.7	56.7	56.7	56.7
800	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	52.7	54.7	60.8	54.6	53.2	56.5	53.2	53.2	53.2	53.2
1000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	49.1	51.0	57.3	51.0	49.7	52.6	49.7	49.7	49.7	49.7
1250	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	44.8	46.8	53.7	46.9	45.5	48.5	45.8	45.8	45.8	45.8
1600	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	39.8	41.9	49.2	42.3	40.8	44.1	41.4	41.4	41.4	41.4
2000	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	32.1	34.5	43.9	35.5	33.5	38.2	35.0	35.0	35.0	35.0
2500	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	19.4	25.6	36.7	25.2	20.5	30.8	26.8	26.8	26.8	26.8
3150	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	11.0	16.9	28.6	14.4	11.1	21.0	11.2	11.2	11.2	11.2
4000	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	2.4	7.6	17.4	3.1	1.2	10.4				
5000												6.1							
6300																			
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 01
AIRCRAFT CODE 717
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE F3

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
90% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	52.9	53.2	58.2	54.3	54.1	56.8	54.9	54.9	54.9	54.9
250	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	50.8	51.0	56.2	52.2	51.9	54.6	52.8	52.8	52.8	52.8
315	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	48.7	48.9	54.1	50.0	49.7	52.4	50.6	50.6	50.6	50.6
400	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	46.5	46.7	51.9	47.9	47.5	50.1	48.4	48.4	48.4	48.4
500	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	44.2	44.4	49.7	45.6	45.2	47.8	46.2	46.2	46.2	46.2
630	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	41.8	42.0	47.3	43.2	42.8	45.3	43.9	43.9	43.9	43.9
800	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	39.4	39.6	44.7	40.8	40.4	42.8	41.5	41.5	41.5	41.5
1000	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	35.8	37.0	42.0	38.2	37.8	40.3	39.1	39.1	39.1	39.1
1250	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.1	34.3	39.1	35.5	35.0	37.6	36.5	36.5	36.5	36.5
1600	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.1	31.3	36.0	32.6	32.1	34.8	33.8	33.8	33.8	33.8
2000	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	27.9	28.1	32.6	29.4	28.9	31.8	30.8	30.8	30.8	30.8
2500	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	24.4	24.7	28.9	26.0	25.5	28.5	27.6	27.6	27.6	27.6
3150	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	20.7	20.9	24.8	22.2	21.7	25.1	24.0	24.0	24.0	24.0
4000	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	16.6	16.8	20.3	18.0	17.5	21.4	20.2	20.2	20.2	20.2
5000	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	12.3	12.4	15.7	13.7	13.3	17.4	16.0	16.0	16.0	16.0
6300	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	7.8	7.8	10.8	9.1	8.9	13.0	11.6	11.6	11.6	11.6
8000	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	3.9	3.9	7.0	5.4	4.9	9.0	7.7	7.7	7.7	7.7
10000	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1		3.4	1.6	1.0	4.9	3.6	3.6	3.6	3.6
12500															.5				
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 01
AIRCRAFT CODE 717
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE G3

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
90% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	54.7	56.2	62.1	55.0	55.3	58.2	55.5	55.5	55.5	55.5
250	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	52.5	54.1	60.0	53.9	53.1	56.0	53.4	53.4	53.4	53.4
315	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	50.4	51.9	58.0	51.7	50.9	53.8	51.2	51.2	51.2	51.2
400	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	48.2	49.7	55.8	49.6	48.7	51.5	49.0	49.0	49.0	49.0
500	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	45.9	47.4	53.6	47.3	46.4	49.2	46.8	46.8	46.8	46.8
630	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	43.6	45.1	51.2	44.9	44.0	46.8	44.5	44.5	44.5	44.5
800	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	41.1	42.6	48.6	42.5	41.5	44.3	42.1	42.1	42.1	42.1
1000	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	38.5	40.0	45.9	39.9	39.0	41.7	39.7	39.7	39.7	39.7
1250	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	35.8	37.3	43.0	37.2	36.3	39.0	37.1	37.1	37.1	37.1
1600	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	32.8	34.3	39.9	34.3	33.3	36.2	34.4	34.4	34.4	34.4
2000	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	29.6	31.2	36.5	31.1	30.1	33.2	31.4	31.4	31.4	31.4
2500	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.2	27.7	32.8	27.7	26.7	30.0	28.2	28.2	28.2	28.2
3150	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	22.4	23.9	28.7	23.9	22.9	26.6	24.6	24.6	24.6	24.6
4000	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.0	19.2	23.4	19.4	18.5	22.6	20.7	20.7	20.7	20.7
5000	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	13.4	14.3	18.0	14.7	14.1	18.2	16.4	16.4	16.4	16.4
6300	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	8.5	9.0	12.4	9.8	9.3	13.6	11.9	11.9	11.9	11.9
8000	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.3	4.5	7.8	5.7	5.1	9.3	7.8	7.8	7.8	7.8
10000	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1		3.4	1.6	1.0	4.9	3.6	3.6	3.6	3.6
12500															.5				
16000																			
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE

OPERATION:
90% RPM
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 01
AIRCRAFT CODE 717
OPERATION CODE 00117
PROFILE VERSION A
20 NOV 81
PAGE J3

P=PNLT A=AL T=ALT

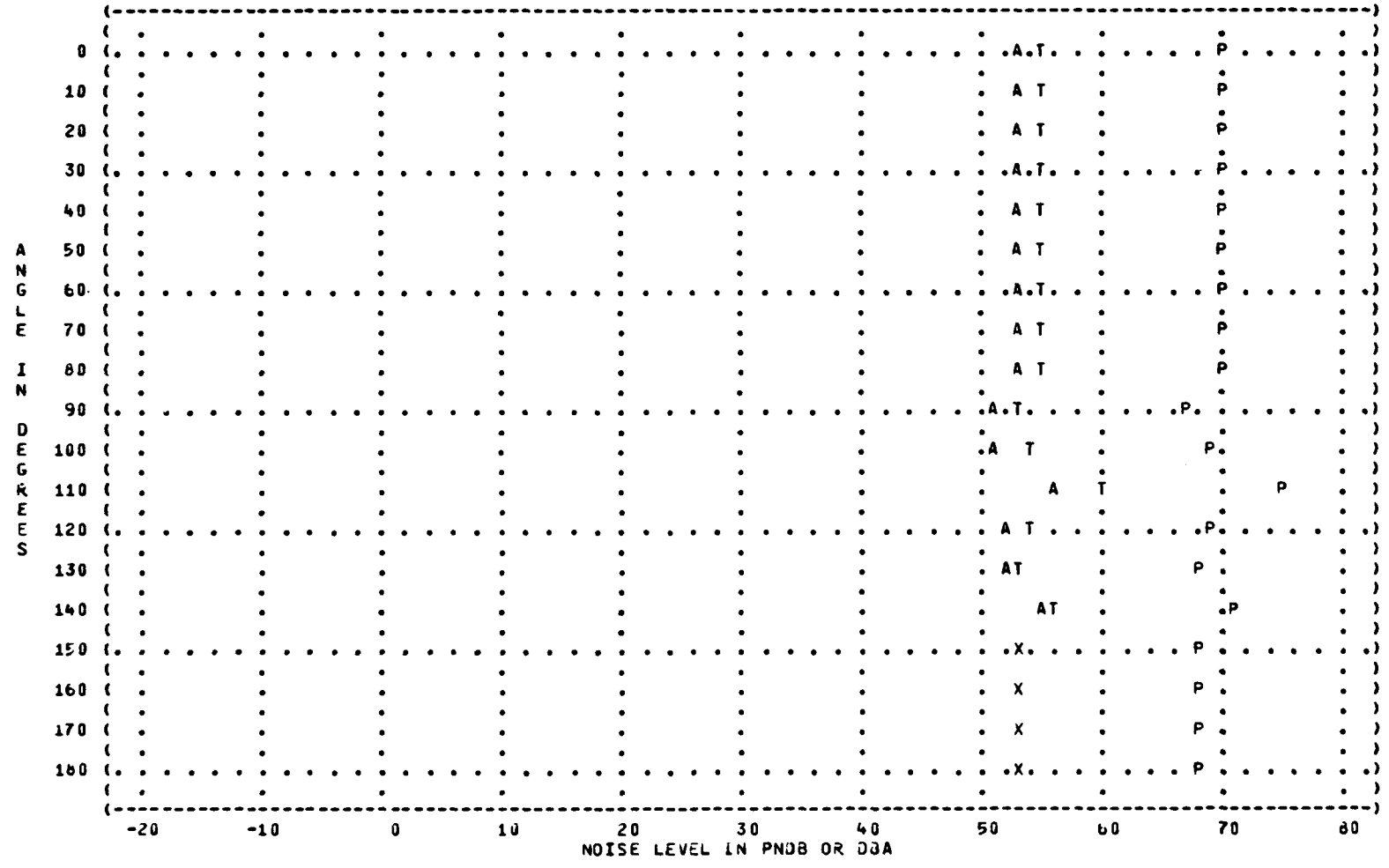


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 02
AIRCRAFT CODE 717
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE C2

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	78	78	78	78	78	78	78	78	78	79	76	76	81	84	88	90	90	90	90
63	74	74	74	74	74	74	74	74	74	77	77	79	81	77	80	84	84	84	84
80	73	73	73	73	73	73	73	73	73	75	73	73	77	76	77	76	76	76	76
100	69	69	69	69	69	69	69	69	69	71	72	71	73	72	73	73	73	73	73
125	67	67	67	67	67	67	67	67	67	68	69	69	68	69	72	72	72	72	72
160	63	63	63	63	63	63	63	63	63	64	67	68	68	70	68	67	67	67	67
200	61	61	61	61	61	61	61	61	61	62	65	64	69	73	67	64	64	64	64
250	59	59	59	59	59	59	59	59	59	59	63	62	66	69	66	64	64	64	64
315	58	58	58	58	58	58	58	58	58	60	54	57	58	59	58	59	59	59	59
400	53	53	53	53	53	53	53	53	53	52	53	54	57	55	59	58	58	58	58
500	58	58	58	58	58	58	58	58	58	55	57	55	57	56	58	60	60	60	60
630	58	58	58	58	58	58	58	58	58	57	54	56	58	56	59	61	61	61	61
800	55	55	55	55	55	55	55	55	55	55	54	55	56	56	58	62	62	62	62
1000	55	55	55	55	55	55	55	55	55	53	54	54	55	57	57	61	61	61	61
1250	54	54	54	54	54	54	54	54	54	53	53	54	55	57	58	61	61	61	61
1600	52	52	52	52	52	52	52	52	52	51	55	53	55	58	58	58	58	58	58
2000	49	49	49	49	49	49	49	49	49	50	56	53	55	59	54	54	54	54	54
2500	47	47	47	47	47	47	47	47	47	48	53	51	55	53	50	52	52	52	52
3150	48	48	48	48	48	48	48	48	48	48	51	51	52	50	50	51	51	51	51
4000	49	49	49	49	49	49	49	49	49	49	49	50	50	50	50	51	51	51	51
5000	48	48	48	48	48	48	48	48	48	47	46	49	53	47	48	48	48	48	48
6300	46	46	45	46	46	46	46	46	46	45	45	46	48	46	47	47	47	47	47
8000	46	46	46	46	46	46	46	46	45	45	44	54	44	45	47	46	46	46	46
10000	42	42	42	42	42	42	42	42	42	41	41	55	40	42	44	44	44	44	44
OVERALL	81	81	81	81	81	81	81	81	81	82	82	82	85	86	89	91	91	91	91

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 02
AIRCRAFT CODE 717
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE D2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	82.4	83.4	84.5	85.5	87.1	89.3	91.0	91.0	91.0	91.0
250	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	80.0	81.1	82.0	84.0	84.7	86.8	88.7	88.7	88.7	88.7
315	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.6	78.7	79.5	81.5	82.4	84.2	86.1	86.1	86.1	86.1
400	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	75.1	76.3	76.9	79.0	79.9	81.5	83.4	83.4	83.4	83.4
500	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.6	73.6	74.2	76.4	77.3	78.8	80.7	80.7	80.7	80.7
630	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	70.0	71.2	71.5	73.7	74.6	76.1	78.0	78.0	78.0	78.0
800	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	67.2	68.5	68.6	71.0	71.7	73.2	75.1	75.1	75.1	75.1
1000	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	64.4	65.7	65.6	68.1	68.7	70.3	72.2	72.2	72.2	72.2
1250	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.9	62.5	62.4	65.0	65.5	67.2	69.2	69.2	69.2	69.2
1600	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	55.9	58.9	58.3	61.2	62.1	63.9	65.9	65.9	65.9	65.9
2000	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	52.4	54.8	53.8	55.8	56.1	59.6	61.7	61.7	61.7	61.7
2500	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.0	49.9	49.0	51.8	53.5	54.6	56.8	56.8	56.8	56.8
3150	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	42.7	44.2	43.9	46.5	48.1	48.4	51.1	51.1	51.1	51.1
4000	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	34.7	37.0	37.0	40.4	41.3	41.9	44.3	44.3	44.3	44.3
5000	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.9	28.9	29.0	31.6	33.3	33.5	37.6	37.6	37.6	37.6
6300	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	18.4	19.6	17.8	22.6	22.9	25.0	29.9	29.9	29.9	29.9
8000	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	8.0	7.9	7.2	11.2	6.8	15.8	22.6	22.6	22.6	22.6
10000	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0						6.5	11.3	11.3	11.3	11.3
12500																.1	.1	.1	.1
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 02
AIRCRAFT CODE 717
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	82.4	84.7	85.1	87.7	88.3	89.3	91.0	91.0	91.0	91.0
250	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	80.0	82.4	82.6	85.3	85.9	86.8	88.7	88.7	88.7	88.7
315	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.6	80.0	80.1	82.8	83.5	84.2	86.1	86.1	86.1	86.1
400	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	75.1	77.6	77.5	80.2	81.1	81.5	83.4	83.4	83.4	83.4
500	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.6	75.1	74.9	77.6	78.5	78.8	80.7	80.7	80.7	80.7
630	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	70.0	72.5	72.1	75.0	75.8	76.1	78.0	78.0	78.0	78.0
800	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	67.2	69.8	69.2	72.2	72.9	73.2	75.1	75.1	75.1	75.1
1000	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	64.4	66.9	66.3	69.3	69.9	70.3	72.2	72.2	72.2	72.2
1250	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.9	63.8	63.1	66.3	66.7	67.2	69.2	69.2	69.2	69.2
1600	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	56.9	60.2	59.0	62.4	63.3	63.9	65.9	65.9	65.9	65.9
2000	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	52.4	56.1	54.4	58.0	59.3	59.6	61.7	61.7	61.7	61.7
2500	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.0	51.2	49.6	53.1	54.9	54.6	56.8	56.8	56.8	56.8
3150	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	42.7	45.5	44.5	47.7	49.4	48.4	51.1	51.1	51.1	51.1
4000	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	34.7	38.0	37.5	41.4	42.3	41.9	44.3	44.3	44.3	44.3
5000	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.9	29.7	29.4	32.3	34.0	33.5	37.6	37.6	37.6	37.6
6300	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	18.4	20.2	18.0	23.1	23.3	25.0	29.9	29.9	29.9	29.9
8000	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	8.0	8.2	7.3	11.4	7.0	15.8	22.6	22.6	22.6	22.6
10000	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0						6.5	11.3	11.3	11.3	11.3
12500																.1	.1	.1	.1
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 02
AIRCRAFT CODE 717
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	66.8	66.2	68.4	70.0	71.5	70.9	72.4	72.4	72.4	72.4
250	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	64.7	66.1	66.2	67.9	69.4	68.8	70.3	70.3	70.3	70.3
315	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.5	64.0	64.0	65.8	67.3	66.7	68.2	68.2	68.2	68.2
400	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.4	61.8	61.7	63.6	65.1	64.6	66.1	66.1	66.1	66.1
500	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.2	59.6	59.4	61.4	62.9	62.4	63.9	63.9	63.9	63.9
630	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	55.9	57.2	57.1	59.1	60.5	60.1	61.7	61.7	61.7	61.7
800	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	53.5	54.8	54.6	56.7	58.0	57.7	59.4	59.4	59.4	59.4
1000	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.1	52.2	52.1	54.2	55.4	55.3	57.1	57.1	57.1	57.1
1250	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	48.5	49.6	49.4	51.5	52.7	52.8	54.7	54.7	54.7	54.7
1600	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	45.8	46.7	46.6	48.6	49.8	50.1	52.1	52.1	52.1	52.1
2000	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	42.8	43.6	43.6	45.5	46.6	47.1	49.2	49.2	49.2	49.2
2500	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	39.7	40.4	40.4	42.2	43.2	43.9	46.1	46.1	46.1	46.1
3150	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	36.4	36.8	36.9	38.7	39.5	40.4	42.8	42.8	42.8	42.8
4000	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	32.7	32.9	33.1	34.7	35.6	36.6	39.2	39.2	39.2	39.2
5000	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	26.6	28.7	28.9	30.5	31.3	32.4	35.1	35.1	35.1	35.1
6300	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	24.3	24.3	24.5	26.1	26.8	28.0	30.8	30.8	30.8	30.8
8000	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	20.5	20.3	20.7	22.3	22.8	24.1	26.9	26.9	26.9	26.9
10000	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	16.5	16.2	16.6	18.3	18.7	20.2	22.8	22.8	22.8	22.8
12500	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.3	12.0	12.4	14.2	14.5	16.1	18.6	18.6	18.6	18.6
16000	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	7.8	8.2	10.3	10.5	12.3	14.5	14.5	14.5	14.5
20000	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.9	3.8	4.1	6.5	6.8	8.8	10.8	10.8	10.8	10.8
25000										.2		.4	3.0	3.4	5.6	7.6	7.6	7.6	7.6

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 02
AIRCRAFT CODE 717
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE G2

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	66.8	69.5	69.1	71.3	72.7	70.9	72.4	72.4	72.4	72.4
250	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	64.7	67.4	66.8	69.2	70.5	68.8	70.3	70.3	70.3	70.3
315	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.5	65.3	64.6	67.1	68.5	66.7	68.2	68.2	68.2	68.2
400	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.4	63.1	62.4	64.9	66.3	64.6	66.1	66.1	66.1	66.1
500	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.2	60.9	60.1	62.6	64.1	62.4	63.9	63.9	63.9	63.9
630	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	55.9	58.5	57.7	60.3	61.7	60.1	61.7	61.7	61.7	61.7
800	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	53.5	56.1	55.2	57.9	59.2	57.7	59.4	59.4	59.4	59.4
1000	51.6	51.6	51.6	51.6	51.6	51.6	51.5	51.6	51.6	51.1	53.5	52.7	55.4	56.5	55.3	57.1	57.1	57.1	57.1
1250	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	48.5	50.9	50.1	52.7	53.9	52.8	54.7	54.7	54.7	54.7
1600	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	45.8	48.0	47.2	49.8	51.0	50.1	52.1	52.1	52.1	52.1
2000	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	42.8	44.9	44.2	46.8	47.6	47.1	49.2	49.2	49.2	49.2
2500	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	39.7	41.7	41.0	43.5	44.4	43.9	46.1	46.1	46.1	46.1
3150	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	36.4	38.1	37.5	39.9	40.8	40.4	42.8	42.8	42.8	42.8
4000	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	32.7	34.0	33.6	35.7	36.5	36.6	39.2	39.2	39.2	39.2
5000	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	28.6	29.5	29.3	31.3	32.1	32.4	35.1	35.1	35.1	35.1
6300	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	24.3	24.8	24.8	26.6	27.3	28.0	30.8	30.8	30.8	30.8
8000	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	20.5	20.6	20.8	22.5	23.1	24.1	26.9	26.9	26.9	26.9
10000	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	16.5	16.2	16.0	18.3	18.7	20.2	22.8	22.8	22.8	22.8
12500	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.3	12.0	12.4	14.2	14.5	16.1	18.6	18.6	18.6	18.6
16000	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	7.8	8.2	10.3	10.5	12.3	14.5	14.5	14.5	14.5
20000	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.9	3.8	4.1	5.5	5.8	8.8	10.8	10.8	10.8	10.8
25000										.2		.4	3.0	3.4	5.6	7.6	7.6	7.6	7.6

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 02
AIRCRAFT CODE 717
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE J2

P=PNLT A=AL T=ALT

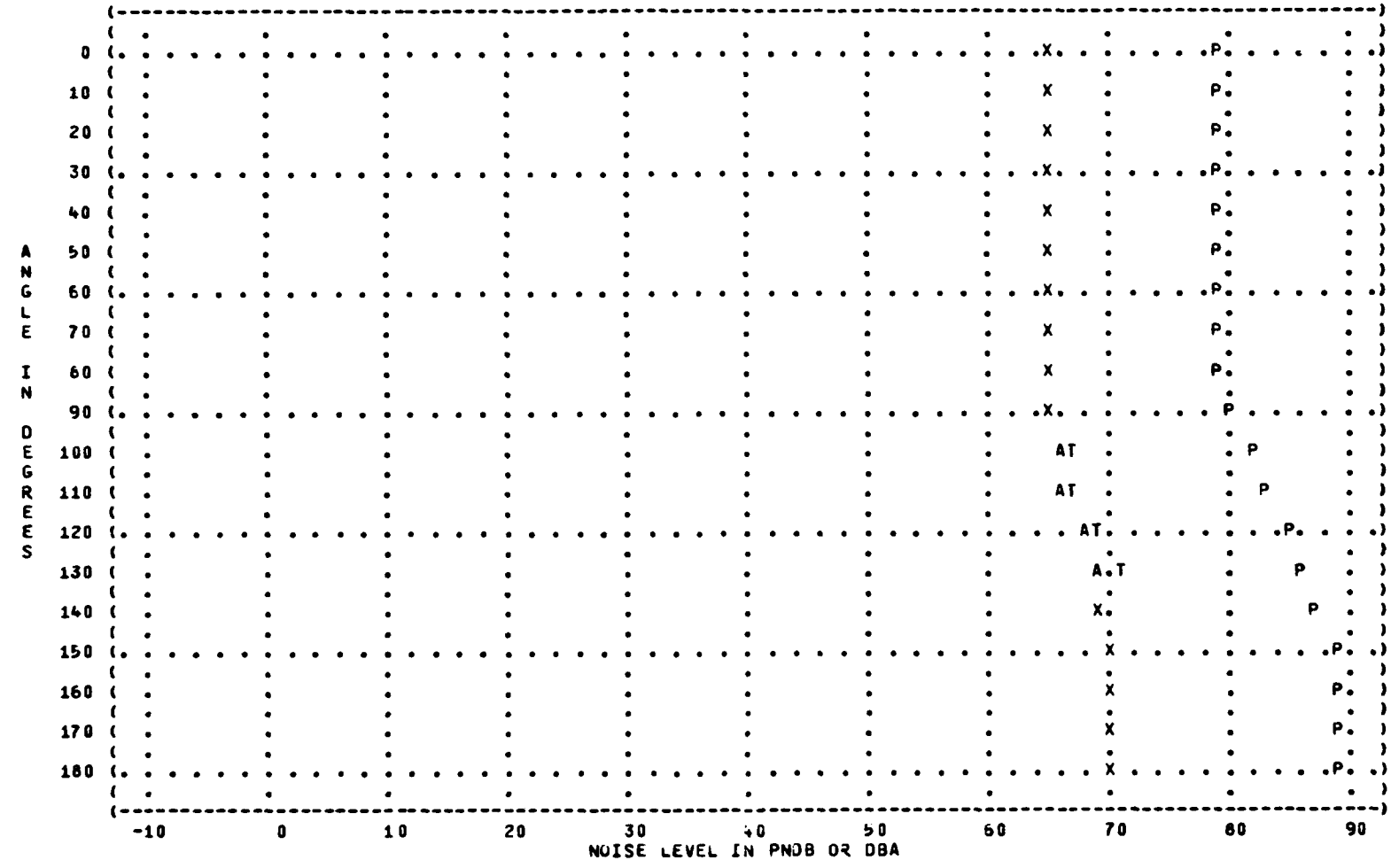


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 03
AIRCRAFT CODE 717
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE C1

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	88	88	88	88	88	88	88	88	88	88	88	90	97	99	100	101	101	101	101
63	86	86	85	86	86	86	86	86	85	88	88	87	90	93	95	97	97	97	97
80	85	85	85	85	85	85	85	85	85	85	85	88	88	89	85	89	89	89	89
100	81	81	81	81	81	81	81	81	81	82	82	83	83	85	81	82	82	82	82
125	74	74	74	74	74	74	74	74	74	76	76	77	79	76	78	78	78	78	78
160	69	69	69	69	69	69	69	69	69	72	72	74	75	75	74	73	73	73	73
200	65	65	65	65	65	65	65	65	65	70	70	71	73	75	73	71	71	71	71
250	63	63	63	63	63	63	63	63	63	67	67	69	71	73	73	71	71	71	71
315	59	59	59	59	59	59	59	59	59	60	50	62	65	65	65	66	66	66	66
400	60	60	60	60	60	60	60	60	60	60	60	62	64	62	62	64	64	64	64
500	62	62	62	62	62	62	62	62	62	61	61	63	65	62	64	63	63	63	63
630	63	63	63	63	63	63	63	63	63	63	63	63	65	63	64	64	64	64	64
800	62	62	62	62	62	62	62	62	62	63	63	63	64	63	64	64	64	64	64
1000	60	60	60	60	60	60	60	60	60	61	61	62	63	64	64	64	64	64	64
1250	60	60	60	60	60	60	60	60	60	60	60	61	63	64	66	67	67	67	67
1600	58	58	58	58	58	58	58	58	58	58	58	59	62	65	66	65	65	65	65
2000	57	57	57	57	57	57	57	57	57	57	57	58	62	66	62	60	60	60	60
2500	54	54	54	54	54	54	54	54	54	55	55	56	61	59	56	56	56	56	56
3150	53	53	53	53	53	53	53	53	53	53	53	54	58	55	56	54	54	54	54
4000	54	54	54	54	54	54	54	54	54	53	53	54	54	54	53	54	54	54	54
5000	51	51	51	51	51	51	51	51	51	51	51	50	50	51	51	51	51	51	51
6300	50	50	50	50	50	50	50	50	50	49	49	49	49	49	49	49	49	49	49
8000	50	50	50	50	50	50	50	50	50	48	48	48	48	48	50	49	49	49	49
10000	47	47	47	47	47	47	47	47	47	46	46	45	46	46	48	47	47	47	47
OVERALL	92	92	92	92	92	92	92	92	92	93	93	94	99	100	101	103	103	103	103

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 03
AIRCRAFT CODE 717
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 61
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	92.4	92.4	93.9	97.8	98.9	99.0	100.0	100.0	100.0	100.0
250	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	90.2	90.2	91.8	95.8	96.8	96.9	97.9	97.9	97.9	97.9
315	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	88.0	88.0	89.5	93.6	94.7	94.7	95.8	95.8	95.8	95.8
400	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	85.5	85.5	87.0	91.4	92.5	92.6	93.6	93.6	93.6	93.6
500	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	82.9	82.9	84.5	89.2	90.3	90.4	91.4	91.4	91.4	91.4
630	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	80.2	80.2	81.9	86.5	88.0	88.1	89.2	89.2	89.2	89.2
800	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	77.4	77.4	79.3	83.7	85.2	85.4	86.9	86.9	86.9	86.9
1000	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	74.6	74.6	76.5	80.8	82.3	82.5	84.1	84.1	84.1	84.1
1250	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	71.5	71.5	73.1	77.7	79.2	79.5	81.0	81.0	81.0	81.0
1600	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	67.8	67.8	69.4	74.5	76.0	76.3	77.9	77.9	77.9	77.9
2000	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	63.5	63.5	65.3	70.3	71.8	72.1	73.6	73.6	73.6	73.6
2500	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	58.7	58.7	60.6	65.6	67.0	67.3	68.8	68.8	68.8	68.8
3150	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.7	52.7	55.0	60.2	61.5	61.8	63.3	63.3	63.3	63.3
4000	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	45.9	46.9	48.2	53.9	55.3	55.6	57.0	57.0	57.0	57.0
5000	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	40.6	40.6	41.9	46.3	47.8	48.3	49.9	49.9	49.9	49.9
6300	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	32.7	32.7	33.4	38.1	38.9	39.8	40.8	40.8	40.8	40.8
8000	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	23.6	23.6	25.9	31.3	32.5	32.8	35.3	35.3	35.3	35.3
10000	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.8	14.8	15.7	21.6	23.7	25.8	28.6	28.6	28.6	28.6
12500	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.0	6.0	5.4	12.5	11.7	16.3	19.3	19.3	19.3	19.3
16000													3.4		7.7	13.4	13.4	13.4	13.4
20000																7.6	7.6	7.6	7.6
25000																1.8	1.8	1.8	1.8

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNOB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 03
AIRCRAFT CODE 717
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	92.4	92.4	93.9	97.8	100.2	99.6	100.0	100.0	100.0	100.0
250	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	90.2	90.2	91.8	95.8	98.1	97.5	97.9	97.9	97.9	97.9
315	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	88.0	88.0	89.5	93.6	96.0	95.4	95.8	95.8	95.8	95.8
400	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	85.5	85.5	87.0	91.4	93.5	93.2	93.6	93.6	93.6	93.6
500	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	82.9	82.9	84.5	89.2	91.6	91.0	91.4	91.4	91.4	91.4
630	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	80.2	80.2	81.9	86.5	89.3	88.8	89.2	89.2	89.2	89.2
800	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	77.4	77.4	79.3	83.7	86.5	86.1	86.9	86.9	86.9	86.9
1000	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	74.6	74.6	76.5	80.8	83.6	83.2	84.1	84.1	84.1	84.1
1250	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	71.5	71.5	73.1	77.7	80.5	80.2	81.0	81.0	81.0	81.0
1600	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	67.8	67.8	69.4	74.5	77.3	77.0	77.9	77.9	77.9	77.9
2000	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	63.5	63.5	65.3	70.3	73.1	72.8	73.6	73.6	73.6	73.6
2500	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	58.7	58.7	60.6	65.6	68.3	68.0	68.8	68.8	68.8	68.8
3150	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.7	52.7	55.0	60.2	62.9	62.5	63.3	63.3	63.3	63.3
4000	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.9	46.9	48.2	53.9	56.3	56.2	57.0	57.0	57.0	57.0
5000	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	40.6	40.6	41.9	46.3	48.5	48.7	49.9	49.9	49.9	49.9
6300	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	32.7	32.7	33.4	38.1	39.4	39.1	40.8	40.8	40.8	40.8
8000	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	23.6	23.6	25.9	31.3	32.8	33.0	35.3	35.3	35.3	35.3
10000	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.8	14.8	15.7	21.6	23.7	25.8	28.6	28.6	28.6	28.6
12500	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.0	6.0	5.4	12.5	11.7	16.3	19.3	19.3	19.3	19.3
16000													3.4		7.7	13.4	13.4	13.4	13.4
20000																7.6	7.6	7.6	7.6
25000																1.8	1.8	1.8	1.8

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 8F-717-001
RUN 03
AIRCRAFT CODE 717
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	74.0	74.0	75.7	78.0	79.1	78.9	79.5	79.5	79.5	79.5
250	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	72.5	72.5	73.7	76.0	77.0	76.8	77.5	77.5	77.5	77.5
315	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	70.4	70.4	71.6	73.9	74.9	74.8	75.4	75.4	75.4	75.4
400	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	68.3	68.3	69.5	71.8	72.8	72.7	73.4	73.4	73.4	73.4
500	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	66.2	66.2	67.3	69.6	70.7	70.5	71.3	71.3	71.3	71.3
630	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	64.0	64.0	65.1	67.4	68.5	68.3	69.1	69.1	69.1	69.1
800	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	61.6	61.6	62.8	65.1	66.2	66.1	66.9	66.9	66.9	66.9
1000	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	59.2	59.2	60.4	62.8	63.8	63.8	64.7	64.7	64.7	64.7
1250	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.6	56.6	57.8	60.2	61.3	61.4	62.4	62.4	62.4	62.4
1600	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.8	53.8	54.9	57.5	58.5	58.7	59.7	59.7	59.7	59.7
2000	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.7	50.7	51.8	54.4	55.3	55.6	56.5	56.5	56.5	56.5
2500	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.4	47.4	48.4	51.1	51.8	52.2	53.1	53.1	53.1	53.1
3150	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.9	43.9	44.8	47.4	48.0	48.5	49.3	49.3	49.3	49.3
4000	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	40.0	40.0	40.9	43.4	43.9	44.5	45.1	45.1	45.1	45.1
5000	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.9	35.9	36.8	39.1	39.4	40.1	40.7	40.7	40.7	40.7
6300	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.5	31.5	32.4	34.6	34.9	35.6	36.1	36.1	36.1	36.1
8000	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.9	27.9	28.7	31.1	31.3	32.1	32.8	32.8	32.8	32.8
10000	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	24.0	24.0	24.9	27.5	27.9	28.6	29.5	29.5	29.5	29.5
12500	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	20.2	20.2	21.2	24.0	24.7	25.3	26.5	26.5	26.5	26.5
16000	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	16.4	16.4	17.5	20.7	21.8	22.3	23.7	23.7	23.7	23.7
20000	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.9	12.9	14.1	17.6	19.1	19.5	21.1	21.1	21.1	21.1
25000	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	9.7	9.7	11.0	14.8	16.4	16.8	18.5	18.5	18.5	18.5

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 03
AIRCRAFT CODE 717
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	74.6	74.6	75.7	78.0	80.3	79.6	79.5	79.5	79.5	79.5
250	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	72.5	72.5	73.7	76.0	78.3	77.5	77.5	77.5	77.5	77.5
315	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	70.4	70.4	71.6	73.9	76.2	75.4	75.4	75.4	75.4	75.4
400	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	68.3	68.3	69.5	71.8	74.1	73.3	73.4	73.4	73.4	73.4
500	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	66.2	66.2	67.3	69.6	72.0	71.2	71.3	71.3	71.3	71.3
630	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	64.0	64.0	65.1	67.4	69.8	69.0	69.1	69.1	69.1	69.1
800	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	61.6	61.6	62.8	65.1	67.5	66.8	66.9	66.9	66.9	66.9
1000	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	59.2	59.2	60.4	62.8	65.1	64.5	64.7	64.7	64.7	64.7
1250	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.6	56.6	57.8	60.2	62.6	62.1	62.4	62.4	62.4	62.4
1600	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.8	53.8	54.9	57.5	59.8	59.4	59.7	59.7	59.7	59.7
2000	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.7	50.7	51.8	54.4	56.6	56.3	56.5	56.5	56.5	56.5
2500	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.4	47.4	48.4	51.1	53.1	52.9	53.1	53.1	53.1	53.1
3150	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.9	43.9	44.8	47.4	49.3	49.2	49.3	49.3	49.3	49.3
4000	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	40.0	40.0	40.9	43.4	44.9	45.0	45.1	45.1	45.1	45.1
5000	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.9	35.9	36.8	39.1	40.2	40.6	40.7	40.7	40.7	40.7
6300	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.5	31.5	32.4	34.6	35.4	35.9	36.1	36.1	36.1	36.1
8000	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.9	27.9	28.7	31.1	31.6	32.2	32.8	32.8	32.8	32.8
10000	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	24.0	24.0	24.9	27.5	27.9	28.6	29.5	29.5	29.5	29.5
12500	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	20.2	20.2	21.2	24.0	24.7	25.3	26.5	26.5	26.5	26.5
16000	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	16.4	16.4	17.5	20.7	21.8	22.3	23.7	23.7	23.7	23.7
20000	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.9	12.9	14.1	17.6	19.1	19.5	21.1	21.1	21.1	21.1
25000	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	9.7	9.7	11.0	14.8	15.4	16.8	18.5	18.5	18.5	18.5

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

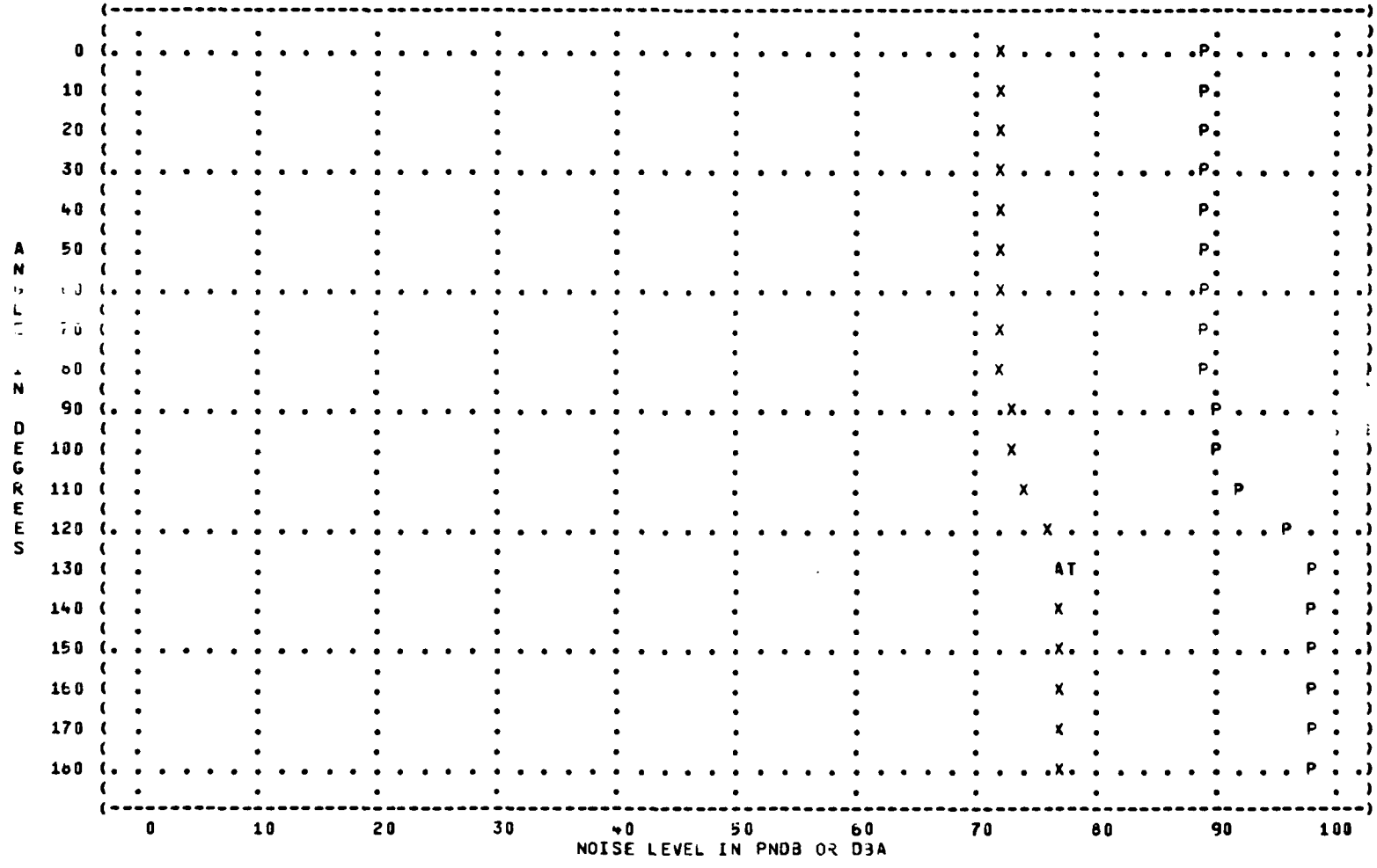
NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (103%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 23.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-717-001
RUN 03
AIRCRAFT CODE 717
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE J1

P=PNLT A=AL T=ALT



NOISE PRODUCED ON THE GROUND BY

HUSH HOUSE(TF30-P-100)

DURING GROUND RUN-UP OPERATIONS

TEST BF-718-001
AIRCRAFT CODE: 71o
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

Power Setting	Page
Engine Runup, 85% RPM	266
Military Power, 96% RPM	272
Afterburner Power, 96% RPM	278

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-718-001
RUN 01
AIRCRAFT CODE 718
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE C3

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
65% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	67	67	67	67	67	67	67	67	67	67	65	66	68	69	72	74	74	74	74
63	65<	65<	65<	65<	65<	65<	65<	65<	65<	65<	65<	64<	66	67<	69<	70<	70<	70<	70<
80	63<	63<	63<	63<	63<	63<	63<	63<	63<	63<	64<	63<	65<	65<	65<	66<	66<	66<	66<
100	61<	61<	61<	61<	61<	61<	61<	61<	61<	61<	64	62	63	63	62	63<	63<	63<	63<
125	59	59	59	59	59	59	59	59	59	59	60	60	62	61	62	59	59	59	59
160	57<	57<	57<	57<	57<	57<	57<	57<	57<	57<	58<	56	59	58	58	56<	56<	56<	56<
200	56<	56<	56<	56<	56<	56<	56<	56<	56<	56<	56<	50	55	56	56	52	52	52	52
250	54<	54<	54<	54<	54<	54<	54<	54<	54<	54<	55<	46	53	55	55	51	51	51	51
315	52<	52<	52<	52<	52<	52<	52<	52<	52<	52<	53<	45<	51<	52<	53<	49	49	49	49
400	51<	51<	51<	51<	51<	51<	51<	51<	51<	51<	51<	45<	49<	49<	50<	47	47	47	47
500	49<	49<	49<	49<	49<	49<	49<	49<	49<	49<	49<	44<	47<	45	48<	49	49	49	49
630	48<	48<	48<	48<	48<	48<	48<	48<	48<	48<	48<	43<	45	46	46<	49	49	49	49
800	46<	46<	46<	46<	46<	46<	46<	46<	46<	46<	46<	42<	43	46	43	47	47	47	47
1000	44<	44<	44<	44<	44<	44<	44<	44<	44<	44<	44<	41<	43<	45<	43<	47	47	47	47
1250	43<	43<	43<	43<	43<	43<	43<	43<	43<	43<	42<	40<	42<	44<	43<	47	47	47	47
1600	41<	41<	41<	41<	41<	41<	41<	41<	41<	41<	41<	39<	41<	44	43	45	45	45	45
2000	40<	40<	40<	40<	40<	40<	40<	40<	40<	40<	39<	38<	40<	43	41<	43<	43<	43<	43<
2500	38	38	38	38	38	38	38	38	38	38	37	37	39	40	39	40	40	40	40
3150	51	51	51	51	51	51	51	51	51	51	44	44	42	44	43	45	45	45	45
4000	43	43	43	43	43	43	43	43	43	43	37	38	37	39	40	41	41	41	41
5000	39	39	39	39	39	39	39	39	39	39	34	35	36	38	38	39	39	39	39
6300	44	44	44	44	44	44	44	44	44	44	36	35	36	38	37	38	38	38	38
8000	40	40	40	40	40	40	40	40	40	40	34<	33<	34	36	34	35	35	35	35
10000	38	38	36	38	38	38	38	38	38	38	32	31	32	33	32	33	33	33	33
OVERALL	71	71	71	71	71	71	71	71	71	71	71	71	73	73	75	76	76	76	76

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 8F-718-001
RUN 01
AIRCRAFT CODE 718
OPERATION CODE 00115
PROFILE VERSION A
20 NOV 81
PAGE 03

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	73.4	71.6	72.8	74.1	73.7	74.7	74.7	74.7	74.7
250	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	71.0	69.3	70.5	71.7	71.4	72.3	72.3	72.3	72.3
315	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	68.7	66.9	68.1	69.4	69.0	69.9	69.9	69.9	69.9
400	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	66.2	64.3	65.7	66.3	66.6	67.5	67.5	67.5	67.5
500	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	63.6	61.6	63.0	64.3	64.0	64.9	64.9	64.9	64.9
630	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	60.8	58.6	60.1	61.5	61.2	62.1	62.1	62.1	62.1
800	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	57.7	55.4	56.9	58.4	58.1	59.1	59.1	59.1	59.1
1000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	54.3	51.9	53.3	55.0	54.7	55.8	55.8	55.8	55.8
1250	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	50.7	47.8	49.6	51.1	51.1	51.9	51.9	51.9	51.9
1600	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	46.9	43.3	45.8	46.7	47.3	47.6	47.6	47.6	47.6
2000	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	42.6	37.4	41.4	42.3	42.9	42.8	42.8	42.8	42.8
2500	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.2	28.9	35.1	36.1	36.2	37.1	37.1	37.1	37.1
3150	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	28.5	17.2	24.0	27.4	28.0	30.1	30.1	30.1	30.1
4000	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	19.2	5.5	14.5	14.9	15.3	20.8	20.8	20.8	20.8
5000	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.6	6.8	6.8	7.2		5.0	2.3	2.6	7.1	7.1	7.1	7.1
6300																			
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-718-001
RUN 01
AIRCRAFT CODE 718
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	75.6	73.6	74.1	75.5	74.9	76.2	76.2	76.2	76.2
250	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	73.3	71.3	71.7	73.2	72.6	73.8	73.8	73.8	73.8
315	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	71.0	68.9	69.3	70.8	70.2	71.4	71.4	71.4	71.4
400	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	68.5	66.3	66.9	68.4	67.8	69.0	69.0	69.0	69.0
500	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	65.9	63.6	64.3	65.8	65.2	66.4	66.4	66.4	66.4
630	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	63.1	60.6	61.3	63.0	62.4	63.7	63.7	63.7	63.7
800	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	60.0	57.4	58.1	59.8	59.3	60.6	60.6	60.6	60.6
1000	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	56.6	53.9	54.5	56.4	55.9	57.3	57.3	57.3	57.3
1250	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	52.9	49.8	50.8	52.5	52.3	53.4	53.4	53.4	53.4
1600	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	49.2	45.3	47.1	48.2	48.5	49.1	49.1	49.1	49.1
2000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	44.9	39.4	42.6	43.8	44.1	44.3	44.3	44.3	44.3
2500	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	39.5	30.9	36.3	37.5	37.4	38.6	38.6	38.6	38.6
3150	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	30.6	19.2	25.3	28.9	29.2	31.6	31.6	31.6	31.6
4000	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	21.0	7.1	15.5	16.0	16.3	22.0	22.0	22.0	22.0
5000	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.5		5.8	3.2	3.4	8.0	8.0	8.0	8.0
6300																			
8000																			
10000																			
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-718-001
RUN 01
AIRCRAFT CODE 718
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE F3

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	59.1	56.1	58.3	59.3	59.1	59.7	59.7	59.7	59.7
250	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	57.0	54.0	56.3	57.2	57.0	57.6	57.6	57.6	57.6
315	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	54.9	51.8	54.2	55.1	54.9	55.5	55.5	55.5	55.5
400	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	52.8	49.7	52.0	52.9	52.8	53.3	53.3	53.3	53.3
500	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	50.6	47.4	49.8	50.7	50.6	51.1	51.1	51.1	51.1
630	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.3	45.1	47.5	48.3	48.3	48.9	48.9	48.9	48.9
800	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	45.9	42.6	45.1	45.9	45.9	46.5	46.5	46.5	46.5
1000	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.5	40.1	42.6	43.4	43.4	44.1	44.1	44.1	44.1
1250	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	40.8	37.4	39.9	40.7	40.7	41.5	41.5	41.5	41.5
1600	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.1	34.4	37.0	37.8	37.9	38.8	38.8	38.8	38.8
2000	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	31.4	34.0	34.7	34.9	35.9	35.9	35.9	35.9
2500	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	31.9	28.0	30.6	31.4	31.5	32.7	32.7	32.7	32.7
3150	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	24.4	27.0	27.8	27.7	29.3	29.3	29.3	29.3
4000	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	20.4	23.0	23.9	23.7	25.6	25.6	25.6	25.6
5000	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.3	16.2	18.8	19.5	19.3	21.5	21.5	21.5	21.5
6300	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	11.8	14.3	15.2	14.8	17.1	17.1	17.1	17.1
8000	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.2	8.1	10.6	11.4	11.2	13.3	13.3	13.3	13.3
10000	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.3	4.2	6.8	7.4	7.4	9.2	9.2	9.2	9.2
12500	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.2	.2	2.8	3.2	3.6	5.0	5.0	5.0	5.0
16000																.9	.9	.9	.9
20000																			
25000																			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-718-001
RUN 01
AIRCRAFT CODE 718
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE G3

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	61.4	58.1	59.6	60.7	60.3	61.2	61.2	61.2	61.2
250	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	59.3	56.0	57.5	58.6	58.3	59.1	59.1	59.1	59.1
315	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	57.2	53.8	55.4	56.5	56.2	57.0	57.0	57.0	57.0
400	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	55.1	51.7	53.3	54.3	54.0	54.8	54.8	54.8	54.8
500	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	52.9	49.4	51.1	52.1	51.8	52.6	52.6	52.6	52.6
630	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	50.6	47.1	48.8	49.8	49.5	50.4	50.4	50.4	50.4
800	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	48.2	44.6	46.4	47.4	47.1	48.0	48.0	48.0	48.0
1000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	45.8	42.1	43.8	44.8	44.6	45.6	45.6	45.6	45.6
1250	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	43.1	39.3	41.1	42.1	41.9	43.0	43.0	43.0	43.0
1600	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	40.3	36.4	38.3	39.2	39.1	40.3	40.3	40.3	40.3
2000	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	37.4	33.4	35.2	36.2	36.1	37.4	37.4	37.4	37.4
2500	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	34.2	30.0	31.9	32.8	32.7	34.2	34.2	34.2	34.2
3150	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	30.7	26.4	28.2	29.2	29.0	30.8	30.8	30.8	30.8
4000	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	26.3	22.0	24.0	25.0	24.8	26.8	26.8	26.8	26.8
5000	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	21.6	17.4	19.5	20.5	20.0	22.4	22.4	22.4	22.4
6300	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	16.7	12.6	14.8	15.8	15.3	17.7	17.7	17.7	17.7
8000	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.7	8.5	10.9	11.7	11.4	13.6	13.6	13.6	13.6
10000	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.3	4.2	6.8	7.4	7.4	9.2	9.2	9.2	9.2
12500	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.2	.2	2.8	3.2	3.6	5.0	5.0	5.0	5.0
16000																.9	.9	.9	.9
20000																			
25000																			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
85% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-718-001
RUN 01
AIRCRAFT CODE 718
OPERATION CODE 00118
PROFILE VERSION A
20 NOV 81
PAGE J3

P=PNLT A=AL T=ALT

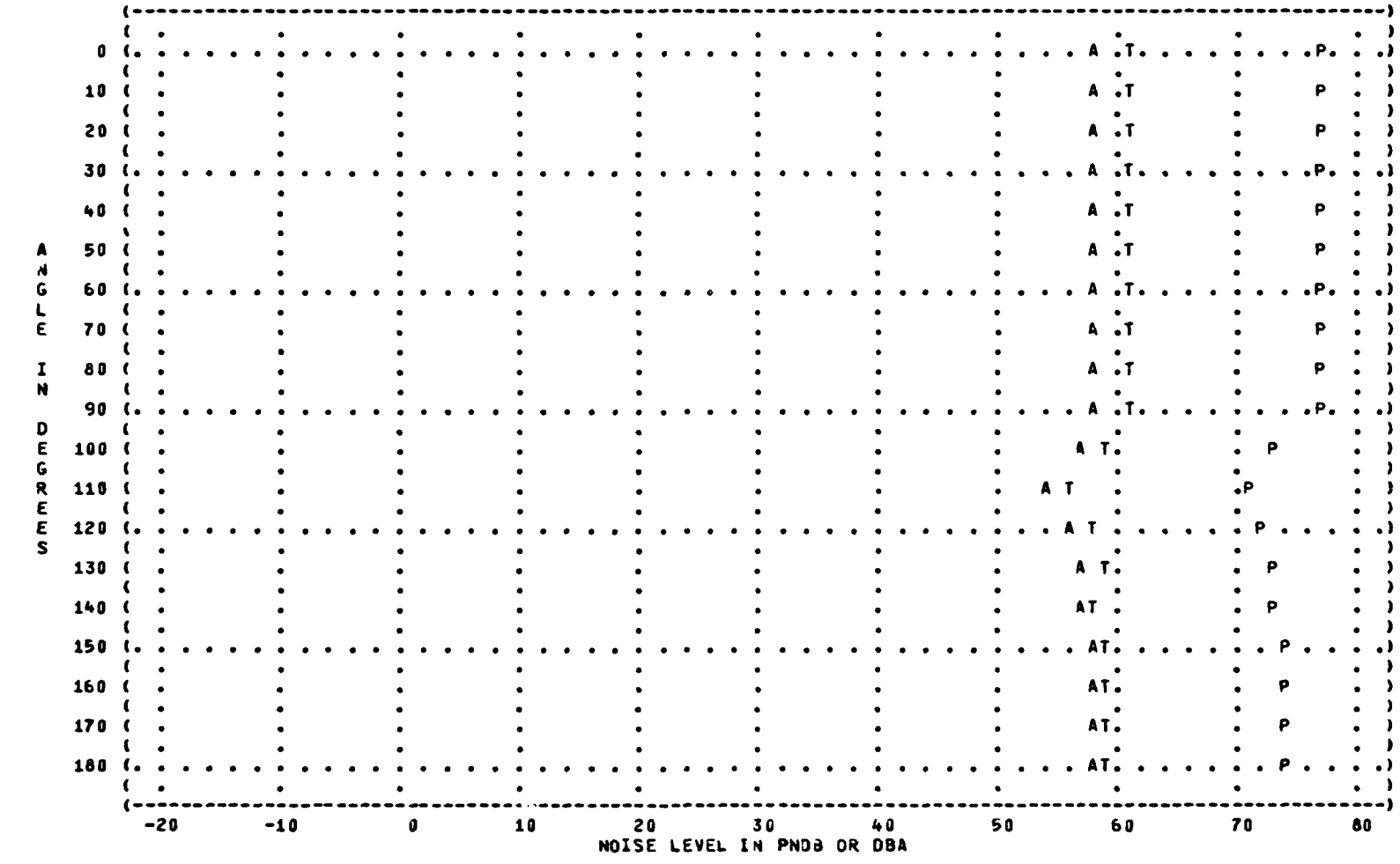


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-718-001
RUN 02
AIRCRAFT CODE 718
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE C2

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	76	76	76	76	76	76	76	76	76	76	77	76	73	80	83	88	86	88	88
63	73	73	73	73	73	73	73	73	73	73	77	76	76	74	76	79	79	79	79
80	72	72	72	72	72	72	72	72	72	72	75	73	74	74	75	76	76	76	76
100	69	69	69	69	69	69	69	69	69	69	73	70	73	75	74	77	77	77	77
125	67	67	67	67	67	67	67	67	67	67	70	68	69	70	73	73	73	73	73
160	61	61	61	61	61	61	61	61	61	61	63	64	67	66	69	68	68	68	68
200	55	55	55	55	55	55	55	55	55	55	57	59	63	65	68	63	63	63	63
250	52	52	52	52	52	52	52	52	52	52	54	57	63	60	69	64	64	64	64
315	49	49	49	49	49	49	49	49	49	49	51	51	56	60	60	58	58	58	58
400	51	51	51	51	51	51	51	51	51	51	51	49	53	55	53	58	58	58	58
500	53	53	53	53	53	53	53	53	53	53	52	51	55	56	55	60	60	60	60
630	54	54	54	54	54	54	54	54	54	54	53	52	55	55	57	61	61	61	61
800	55	55	55	55	55	55	55	55	55	55	53	53	55	55	59	60	60	60	60
1000	51	51	51	51	51	51	51	51	51	51	51	52	53	55	58	60	60	60	60
1250	50	50	50	50	50	50	50	50	50	50	49	52	53	56	59	62	62	62	62
1600	49	49	49	49	49	49	49	49	49	49	49	50	53	56	59	59	59	59	59
2000	48	48	48	48	48	48	48	48	48	48	47	49	52	55	56	55	55	55	55
2500	45	45	45	45	45	45	45	45	45	45	46	47	51	50	51	53	53	53	53
3150	46	46	46	46	46	46	46	46	46	46	45	47	48	48	50	52	52	52	52
4000	48	48	48	48	48	48	48	48	48	48	44	45	46	47	49	50	50	50	50
5000	46	46	46	46	46	46	46	46	46	46	45	45	45	46	49	50	50	50	50
6300	45	45	45	45	45	45	45	45	45	45	43	44	45	46	48	49	49	49	49
8000	44	44	44	44	44	44	44	44	44	44	42	43	44	44	47	48	48	48	48
10000	40	40	40	40	40	40	40	40	40	40	39	39	40	40	43	45	45	45	45
OVERALL	80	80	80	80	80	80	80	80	80	80	82	81	83	83	85	89	89	89	89

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-718-001
RUN 02
AIRCRAFT CODE 718
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	81.3	80.6	83.3	84.8	86.6	89.7	89.7	89.7	89.7
250	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	78.9	78.1	80.9	82.4	84.1	87.1	87.1	87.1	87.1
315	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	76.4	75.6	78.5	80.0	81.6	84.5	84.5	84.5	84.5
400	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	74.0	73.1	76.0	77.5	79.1	81.9	81.9	81.9	81.9
500	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	71.4	70.5	73.5	75.0	76.6	79.2	79.2	79.2	79.2
630	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	68.8	67.9	70.9	72.5	73.9	76.5	76.5	76.5	76.5
800	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	65.9	65.0	68.0	69.5	71.0	73.7	73.7	73.7	73.7
1000	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	62.8	62.1	64.9	66.5	68.2	70.8	70.8	70.8	70.8
1250	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	59.2	58.6	61.5	63.1	65.1	67.7	67.7	67.7	67.7
1600	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	55.1	54.2	57.5	59.2	61.8	64.4	64.4	64.4	64.4
2000	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.9	49.4	52.9	55.2	57.9	60.1	60.1	60.1	60.1
2500	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	48.0	50.4	53.5	55.3	55.3	55.3	55.3
3150	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.7	38.7	42.7	44.8	48.0	49.7	49.7	49.7	49.7
4000	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.0	30.8	35.0	37.6	41.6	44.0	44.0	44.0	44.0
5000	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	20.2	22.3	26.8	29.3	34.3	36.7	36.7	36.7	36.7
6300	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	10.2	9.0	16.1	19.2	25.9	29.0	29.0	29.0	29.0
8000	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	.3		5.3	9.0	15.0	21.3	21.3	21.3	21.3
10000															4.2	8.6	8.6	8.6	8.6
12500																			
16000																			
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 02
AIRCRAFT CODE 716
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	81.3	80.6	84.0	85.4	87.4	90.4	90.4	90.4	90.4
250	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	78.9	78.1	81.6	83.0	84.9	87.8	87.8	87.8	87.8
315	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	76.4	75.6	79.2	80.6	82.4	85.2	85.2	85.2	85.2
400	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	74.0	73.1	76.7	78.2	79.9	82.6	82.6	82.6	82.6
500	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	71.4	70.5	74.2	75.5	77.4	79.9	79.9	79.9	79.9
630	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	68.8	67.9	71.6	73.1	74.7	77.2	77.2	77.2	77.2
800	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	65.9	65.0	68.7	70.2	71.8	74.3	74.3	74.3	74.3
1000	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	62.8	62.1	65.6	67.1	69.0	71.4	71.4	71.4	71.4
1250	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	59.2	58.6	62.1	63.7	65.9	68.3	68.3	68.3	68.3
1600	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	55.1	54.2	58.2	59.8	62.6	65.0	65.0	65.0	65.0
2000	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.9	49.4	53.6	55.8	58.7	60.8	60.8	60.8	60.8
2500	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	48.7	50.9	54.3	55.9	55.9	55.9	55.9
3150	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.7	38.7	43.3	45.3	48.8	50.4	50.4	50.4	50.4
4000	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.0	30.8	35.6	38.1	42.2	44.5	44.5	44.5	44.5
5000	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	20.2	22.3	27.2	29.7	34.7	37.0	37.8	37.0	37.8
6300	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	10.2	9.0	16.3	19.4	26.2	29.3	29.3	29.3	29.3
8000	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	.3		5.5	9.1	15.2	21.4	21.4	21.4	21.4
10000															4.2	8.6	8.6	8.6	8.6
12500																			
16000																			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-718-001
RUN 02
AIRCRAFT CODE 716
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE F2

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	65.0	65.0	67.5	69.0	71.3	72.3	72.3	72.3	72.3
250	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.9	62.9	65.4	66.9	69.2	70.2	70.2	70.2	70.2
315	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.8	60.7	63.3	64.8	67.1	68.1	68.1	68.1	68.1
400	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.7	58.6	61.1	62.7	65.0	66.0	66.0	66.0	66.0
500	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.5	56.4	58.9	60.5	62.7	63.8	63.8	63.8	63.8
630	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	54.3	54.1	56.6	58.2	60.4	61.5	61.5	61.5	61.5
800	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.9	51.7	54.2	55.7	58.0	59.2	59.2	59.2	59.2
1000	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	49.5	49.2	51.7	53.2	55.4	56.8	56.8	56.8	56.8
1250	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.8	46.6	49.0	50.5	52.8	54.3	54.3	54.3	54.3
1600	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.9	43.8	46.2	47.5	49.9	51.6	51.6	51.6	51.6
2000	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.9	40.8	43.1	44.5	46.9	48.8	48.8	48.8	48.8
2500	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.5	39.9	41.3	43.7	45.7	45.7	45.7	45.7
3150	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.1	34.1	36.3	37.7	40.2	42.4	42.4	42.4	42.4
4000	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.2	30.4	32.5	33.8	36.5	38.7	38.7	38.7	38.7
5000	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.1	26.3	28.4	29.5	32.4	34.7	34.7	34.7	34.7
6300	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	21.8	22.0	24.0	25.2	28.0	30.3	30.3	30.3	30.3
8000	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.1	18.1	20.1	21.2	23.9	26.3	26.3	26.3	26.3
10000	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.2	14.0	16.1	17.0	19.6	22.1	22.1	22.1	22.1
12500	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.3	9.7	11.9	12.8	15.1	17.7	17.7	17.7	17.7
16000	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.4	5.5	7.8	8.5	10.7	13.3	13.3	13.3	13.3
20000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.8	1.7	3.9	4.7	6.6	9.3	9.3	9.3	9.3
25000													.3	1.1	2.9	5.8	5.8	5.8	5.8

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-718-001
RUN 02
AIRCRAFT CODE 718
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	65.0	65.0	68.2	69.6	72.1	73.0	73.0	73.0	73.0
250	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.9	62.9	66.1	67.5	70.0	70.9	70.9	70.9	70.9
315	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.8	60.7	64.0	65.4	67.9	68.8	68.8	68.8	68.8
400	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.7	58.6	61.8	63.3	65.7	66.6	66.6	66.6	66.6
500	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.5	56.4	59.6	61.1	63.5	64.4	64.4	64.4	64.4
630	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	54.3	54.1	57.3	58.7	61.2	62.2	62.2	62.2	62.2
800	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.9	51.7	54.9	56.3	58.8	59.9	59.9	59.9	59.9
1000	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	49.5	49.2	52.4	53.8	56.2	57.5	57.5	57.5	57.5
1250	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.8	46.6	49.7	51.1	53.5	54.9	54.9	54.9	54.9
1600	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.9	43.8	46.8	48.2	50.7	52.3	52.3	52.3	52.3
2000	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.9	40.8	43.8	45.2	47.7	49.4	49.4	49.4	49.4
2500	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.5	40.5	41.9	44.5	46.4	46.4	46.4	46.4
3150	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.1	34.1	37.0	38.3	41.0	43.1	43.1	43.1	43.1
4000	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.2	30.4	33.1	34.3	37.1	39.3	39.3	39.3	39.3
5000	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.1	26.3	28.8	30.0	32.9	35.1	35.1	35.1	35.1
6300	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	21.8	22.0	24.3	25.4	28.3	30.6	30.6	30.6	30.6
8000	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.1	18.1	20.3	21.3	24.1	26.5	26.5	26.5	26.5
10000	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.2	14.0	16.1	17.0	19.6	22.1	22.1	22.1	22.1
12500	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.3	9.7	11.9	12.8	15.1	17.7	17.7	17.7	17.7
16000	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.4	5.5	7.8	8.5	10.7	13.3	13.3	13.3	13.3
20000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.8	1.7	3.9	4.7	6.6	9.3	9.3	9.3	9.3
25000													.3	1.1	2.9	5.8	5.8	5.8	5.8

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
MILITARY POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-718-001
RUN 02
AIRCRAFT CODE 71d
OPERATION CODE 00104
PROFILE VERSION A
20 NOV 81
PAGE J2

P=PNLT A=AL T=ALT

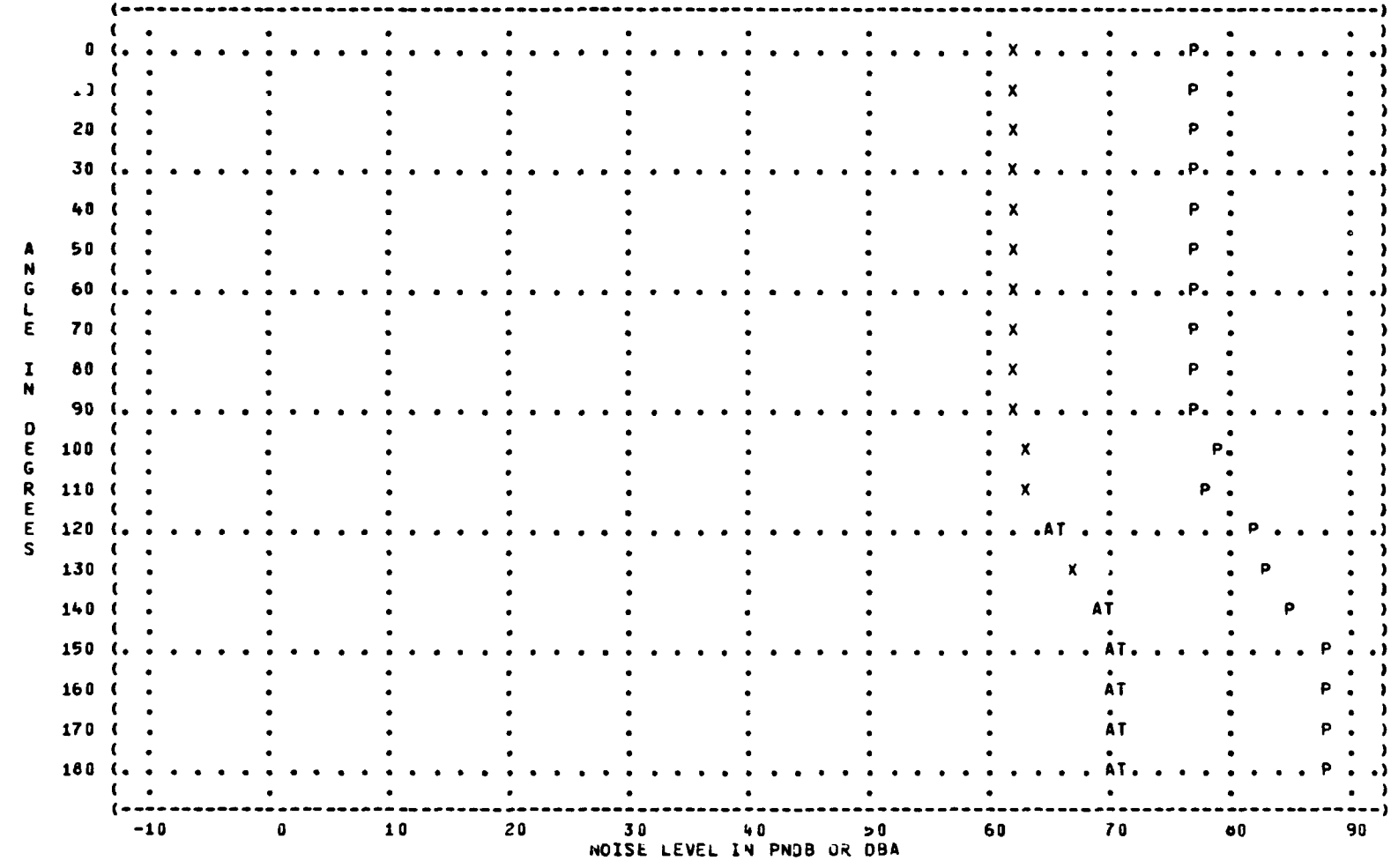


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-718-001
RUN 03
AIRCRAFT CODE 718
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE C1

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	89	89	89	89	89	89	89	89	89	89	92	96	99	98	102	103	103	103	103
63	88	88	86	88	88	88	88	88	86	88	89	91	94	92	96	99	99	99	99
80	86	86	85	86	86	86	86	86	85	86	87	89	89	89	90	93	93	93	93
100	83	83	83	83	83	83	83	83	83	83	87	88	87	87	87	90	90	90	90
125	80	80	80	80	80	80	80	80	80	80	82	85	85	85	86	86	86	86	86
160	76	76	76	76	76	76	76	76	76	76	77	79	82	81	82	82	82	82	82
200	70	70	70	70	70	70	70	70	70	70	72	75	78	77	78	76	76	76	76
250	68	68	68	68	68	68	68	68	68	68	68	71	74	74	76	73	73	73	73
315	65	65	65	65	65	65	65	65	65	65	64	66	70	70	69	71	71	71	71
400	63	63	63	63	63	63	63	63	63	63	64	63	66	66	67	67	67	67	67
500	64	64	64	64	64	64	64	64	64	64	65	63	65	66	68	66	66	66	66
630	64	64	64	64	64	64	64	64	64	64	65	64	67	67	68	67	67	67	67
800	65	65	65	65	65	65	65	65	65	65	67	66	68	67	69	67	67	67	67
1000	65	65	65	65	65	65	65	65	65	65	66	66	68	67	69	67	67	67	67
1250	64	64	64	64	64	64	64	64	64	64	65	66	67	67	69	67	67	67	67
1600	64	64	64	64	64	64	64	64	64	64	64	64	67	66	69	66	66	66	66
2000	62	62	62	62	62	62	62	62	62	62	63	64	65	65	66	65	65	65	65
2500	59	59	59	59	59	59	59	59	59	59	60	60	64	62	62	61	61	61	61
3150	58	58	58	58	58	58	58	58	58	58	58	59	60	59	60	59	59	59	59
4000	55	55	55	55	55	55	55	55	55	55	56	57	57	57	58	57	57	57	57
5000	55	55	55	55	55	55	55	55	55	55	55	55	55	55	57	55	55	55	55
6300	53	53	53	53	53	53	53	53	53	53	53	53	53	53	55	54	54	54	54
8000	53	53	53	53	53	53	53	53	53	53	53	52	53	52	53	52	52	52	52
10000	49	49	49	49	49	49	49	49	49	49	49	48	49	49	50	49	49	49	49
OVERALL	93	93	93	93	93	93	93	93	93	93	96	98	101	100	103	105	105	105	105

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 8F-718-001
RUN 03
AIRCRAFT CODE 718
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	96.1	98.1	100.3	99.9	102.2	102.7	102.7	102.7	102.7
250	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	94.0	96.0	98.2	97.8	100.2	100.6	100.6	100.6	100.6
315	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	91.8	93.9	96.1	95.7	98.1	98.5	98.5	98.5	98.5
400	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	89.5	91.7	94.0	93.5	95.9	96.4	96.4	96.4	96.4
500	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	87.2	89.2	91.8	91.4	93.7	94.3	94.3	94.3	94.3
630	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	84.7	86.4	89.3	88.9	91.5	92.0	92.0	92.0	92.0
800	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	81.8	83.6	86.5	86.0	89.1	89.7	89.7	89.7	89.7
1000	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	78.7	80.7	83.6	83.1	86.3	87.2	87.2	87.2	87.2
1250	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	75.3	77.6	80.5	80.1	83.3	84.2	84.2	84.2	84.2
1600	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	71.6	74.3	77.3	76.8	80.0	80.9	80.9	80.9	80.9
2000	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	67.5	70.1	73.1	72.7	75.9	76.7	76.7	76.7	76.7
2500	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	62.9	65.4	68.5	68.0	71.1	71.9	71.9	71.9	71.9
3150	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	57.7	60.2	63.3	62.8	65.9	66.6	66.6	66.6	66.6
4000	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	52.1	53.6	57.1	56.5	59.9	60.3	60.3	60.3	60.3
5000	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	46.3	46.7	50.0	49.3	53.1	53.5	53.5	53.5	53.5
6300	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	39.4	39.9	43.3	42.2	45.1	45.6	45.6	45.6	45.6
8000	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	33.0	33.8	37.9	36.5	40.1	40.4	40.4	40.4	40.4
10000	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	23.5	23.7	30.0	27.8	33.4	34.6	34.6	34.6	34.6
12500	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	12.2	6.8	16.6	15.9	24.4	26.8	26.8	26.8	26.8
16000											1.0		3.2	3.9	13.0	17.2	17.2	17.2	17.2
20000															6.9	9.6	9.6	9.6	9.6
25000															.9	1.9	1.9	1.9	1.9

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNOB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-718-001
RUN 03
AIRCRAFT CODE 718
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE E1

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	96.1	98.1	100.3	99.9	102.2	102.7	102.7	102.7	102.7
250	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	94.0	96.0	98.2	97.8	100.2	100.6	100.6	100.6	100.6
315	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	91.8	93.9	96.1	95.7	98.1	98.5	98.5	98.5	98.5
400	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	89.5	91.7	94.0	93.6	95.9	96.4	96.4	96.4	96.4
500	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	87.2	89.2	91.8	91.4	93.7	94.3	94.3	94.3	94.3
630	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	84.7	86.4	89.3	88.9	91.5	92.0	92.0	92.0	92.0
800	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	81.8	83.6	86.5	86.0	89.1	89.7	89.7	89.7	89.7
1000	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	78.7	80.7	83.6	83.1	86.3	87.2	87.2	87.2	87.2
1250	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	75.3	77.6	80.5	80.1	83.3	84.2	84.2	84.2	84.2
1600	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	71.6	74.3	77.3	76.8	80.0	80.9	80.9	80.9	80.9
2000	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	67.5	70.1	73.1	72.7	75.9	76.7	76.7	76.7	76.7
2500	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	62.9	65.4	68.5	68.0	71.1	71.9	71.9	71.9	71.9
3150	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	57.7	60.2	63.3	62.8	65.9	66.6	66.6	66.6	66.6
4000	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	52.1	53.6	57.1	56.5	59.9	60.3	60.3	60.3	60.3
5000	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	46.3	46.7	50.0	49.3	53.1	53.5	53.5	53.5	53.5
6300	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	39.4	39.9	43.3	42.2	45.1	45.6	45.6	45.6	45.6
8000	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	33.0	33.8	37.9	36.5	40.1	40.4	40.4	40.4	40.4
10000	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	23.5	23.7	30.0	27.8	33.4	34.6	34.6	34.6	34.6
12500	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	12.2	6.8	15.6	15.9	24.4	26.8	26.8	26.8	26.8
16000											1.0		3.2	3.9	13.0	17.2	17.2	17.2	17.2
20000															6.9	9.6	9.6	9.6	9.6
25000															.9	1.9	1.9	1.9	1.9

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST BF-718-001
RUN 03
AIRCRAFT CODE 718
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE F1

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	78.8	79.7	81.5	80.9	82.7	82.8	82.8	82.8	82.8
250	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	76.7	77.7	79.4	78.8	80.6	80.7	80.7	80.7	80.7
315	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	74.6	75.6	77.3	76.7	78.6	78.7	78.7	78.7	78.7
400	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	72.5	73.5	75.2	74.6	76.5	76.6	76.6	76.6	76.5
500	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	70.3	71.3	73.0	72.5	74.3	74.5	74.5	74.5	74.5
630	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	68.1	69.1	70.8	70.2	72.0	72.3	72.3	72.3	72.3
800	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.7	66.7	68.4	67.8	69.7	70.0	70.0	70.0	70.0
1000	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	63.2	64.2	66.0	65.4	67.3	67.7	67.7	67.7	67.7
1250	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	60.6	61.5	63.4	62.8	64.8	65.2	65.2	65.2	65.2
1600	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	57.7	58.6	60.5	60.0	62.1	62.3	62.3	62.3	62.3
2000	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	54.7	55.4	57.4	56.8	59.0	59.1	59.1	59.1	59.1
2500	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	51.4	52.0	54.0	53.4	55.6	55.5	55.5	55.5	55.5
3150	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	47.9	48.3	50.4	49.8	52.0	51.7	51.7	51.7	51.7
4000	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	44.1	44.3	46.4	45.8	48.0	47.4	47.4	47.4	47.4
5000	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	40.0	40.1	42.2	41.5	43.8	43.0	43.0	43.0	43.0
6300	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	35.7	35.7	37.8	37.1	39.3	38.4	38.4	38.4	38.4
8000	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	31.8	31.9	34.0	33.4	35.6	35.1	35.1	35.1	35.1
10000	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	27.7	28.1	30.3	29.7	31.9	31.9	31.9	31.9	31.9
12500	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	23.6	24.4	26.5	26.0	28.3	28.9	28.9	28.9	28.9
16000	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	19.7	21.0	23.1	22.6	25.0	26.1	26.1	26.1	26.1
20000	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	16.1	17.9	19.9	19.5	22.0	23.3	23.3	23.3	23.3
25000	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	12.8	14.9	17.0	16.5	19.1	20.7	20.7	20.7	20.7

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE

OPERATION:
AFTERBURNER POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST BF-718-001
RUN 03
AIRCRAFT CODE 718
OPERATION CODE 00103
PROFILE VERSION A
20 NOV 81
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	78.8	79.7	81.5	80.9	82.7	82.8	82.8	82.8	82.8
250	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	76.7	77.7	79.4	78.3	80.6	80.7	80.7	80.7	80.7
315	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	74.6	75.6	77.3	76.7	78.6	78.7	78.7	78.7	78.7
400	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	72.5	73.5	75.2	74.6	76.5	76.6	76.6	76.6	76.5
500	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	70.3	71.3	73.0	72.5	74.3	74.5	74.5	74.5	74.5
630	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	68.1	69.1	70.8	70.2	72.0	72.3	72.3	72.3	72.3
800	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.7	66.7	68.4	67.8	69.7	70.0	70.0	70.0	70.0
1000	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	63.2	64.2	66.0	65.4	67.3	67.7	67.7	67.7	67.7
1250	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	60.6	61.5	63.4	62.8	64.8	65.2	65.2	65.2	65.2
1600	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	57.7	58.6	60.5	60.0	62.1	62.3	62.3	62.3	62.3
2000	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	54.7	55.4	57.4	56.8	59.0	59.1	59.1	59.1	59.1
2500	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	51.4	52.0	54.0	53.4	55.6	55.5	55.5	55.5	55.5
3150	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	45.8	47.9	48.3	50.4	49.5	52.0	51.7	51.7	51.7	51.7
4000	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	44.1	44.3	45.4	45.8	48.0	47.4	47.4	47.4	47.4
5000	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	40.0	40.1	42.2	41.5	43.8	43.0	43.0	43.0	43.0
6300	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	35.7	35.7	37.8	37.1	39.3	38.4	38.4	38.4	38.4
8000	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	31.8	31.9	34.0	33.4	35.6	35.1	35.1	35.1	35.1
10000	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	27.7	28.1	30.3	29.7	31.9	31.9	31.9	31.9	31.9
12500	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	23.6	24.4	26.5	26.0	28.3	28.9	28.9	28.9	28.9
16000	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	19.7	21.0	23.1	22.5	25.0	26.1	26.1	26.1	26.1
20000	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	16.1	17.9	19.9	19.5	22.0	23.3	23.3	23.3	23.3
25000	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	12.8	14.9	17.0	16.5	19.1	20.7	20.7	20.7	20.7

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST BF-716-001
RUN 03
AIRCRAFT CODE 716
OPERATION CODE 00103
PROFILE VERSION A
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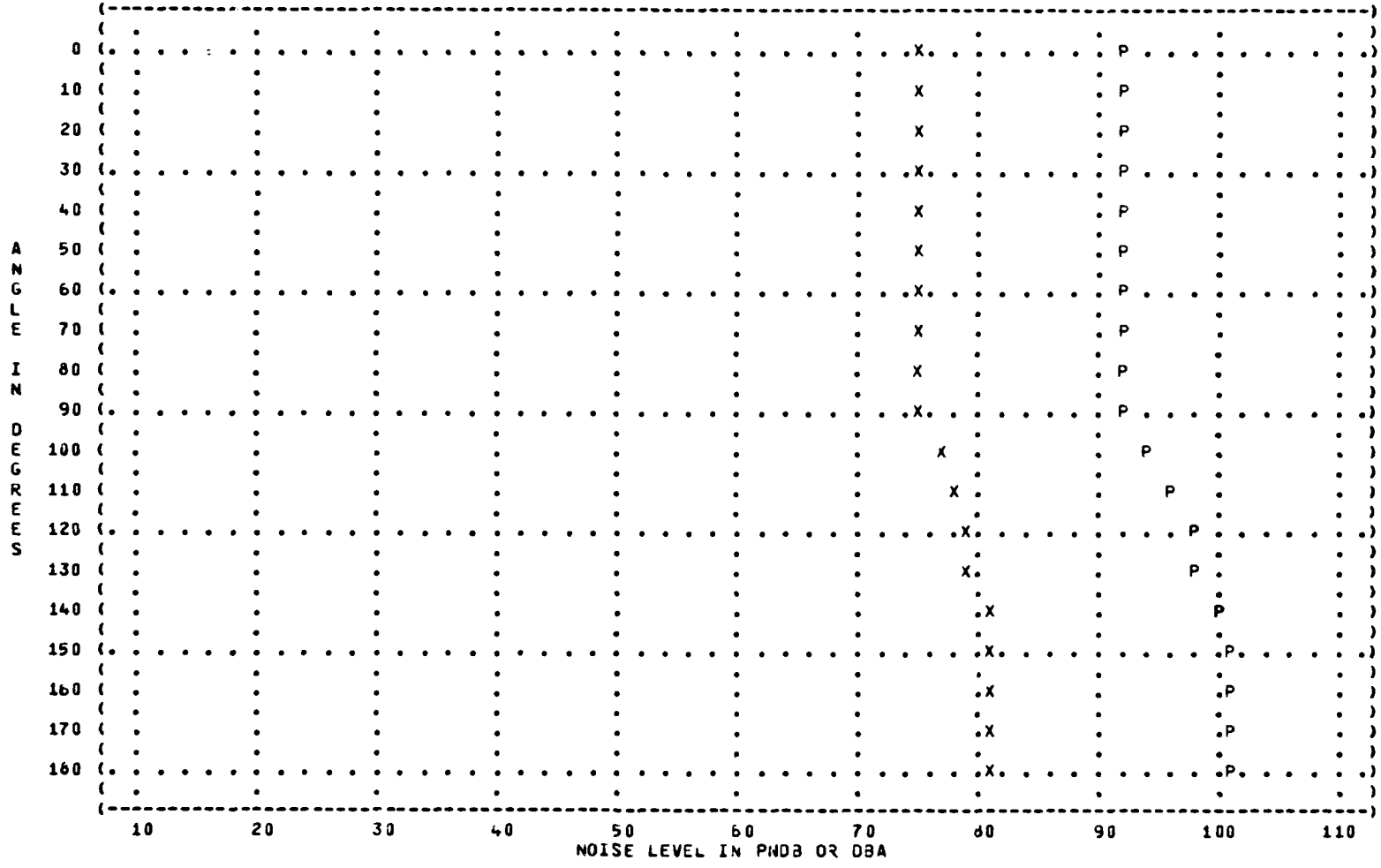
NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS A&E HUSH HOUSE

OPERATION:
AFTERBURNER POWER (96%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS A&E HUSH HOUSE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

P=PNLT A=AL T=ALT



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