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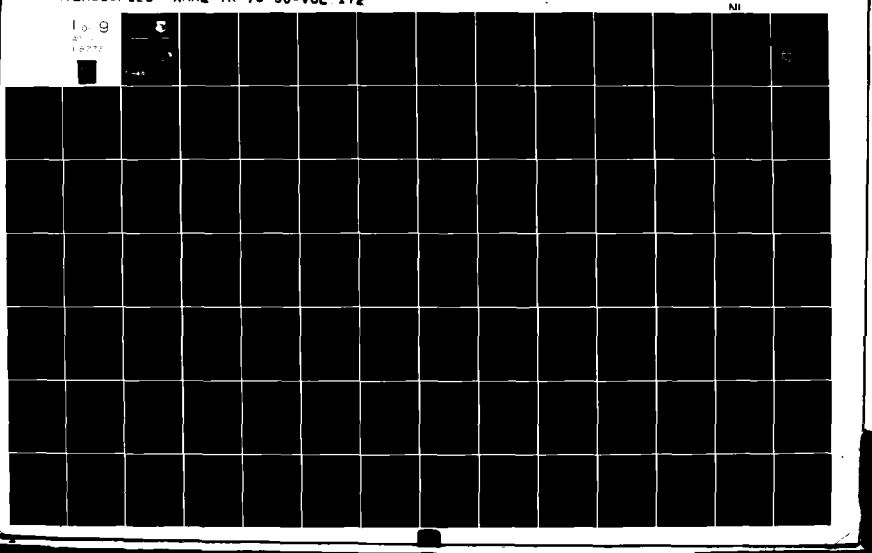

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Volume 172

(10)

USAF BIOENVIRONMENTAL NOISE DATA HANDBOOK

Volume 172

Hush-House Noise Suppressor (Aero Systems Engineering, Inc.) Far-Field Noise

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AIR FORCE AEROSPACE MEDICAL RESEARCH LABORATORY
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AMRL-TR-75-50, Vol. 172

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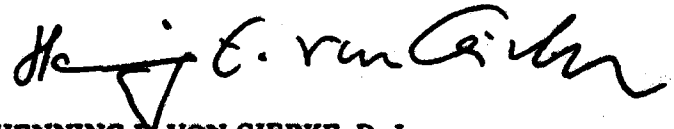
FOR THE COMMANDER



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

The hush-house noise suppressor was made by Aero Systems Engineering of Texas, Inc. for acoustical suppression of various AF fighter/trainer aircraft during ground runup operations. This report provides measured and extrapolated data defining the bioacoustic environments produced by several aircraft/engines operating in the hush-house suppressor for various engine power configurations. Far-field data measured at 20 locations are normalized to standard meteorological conditions and extrapolated from 75-8000 meters to derive sets of equal-value contours for seven acoustic measures as function of angle and

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distance from the source. Refer to Volume 1 of this handbook, "USAF Bioenvironmental Noise Data Handbook, Vol 1: Organization, Content and Application," AMRL-TR-75(1) 1975, for discussion of the objective and design of the handbook, the types of data presented, measurement procedures, instrumentation, data processing, definitions of quantities, symbols, equations, applications, limitations, etc. Data are presented for the following aircraft/engines operating in the hush-house noise suppressor: F-4, F-15, F-16, F-105, F-106, F-111F and T-38 aircraft and the TF41-A-1, J79-GE-15, F100-PW-100, J75-P-19, J-75-P-17 and TF30-P-100 engines.

PREFACE

This report was prepared by the Biodynamic Environment Branch, Air Force Aerospace Medical Research Laboratory, under Project/Task 723107, Technology To Define and Assess Environmental Quality of Noise From Air Force Operations.

The authors gratefully acknowledge Mr. John Cole and Mr. Robert Powell for their assistance in preparing this report, Ms Anne Murney and SSgt Jorge Noverola of the Occupational and Environmental Health Laboratory at Brooks AFB, Texas for their assistance in acquiring the raw data, Mr. Keith Kettler, Mr. Henry Mohlman and Mr. Fred Lampley of the University of Dayton for assistance in the mechanics of data processing, and Mrs. Norma Peachey for assistance in typing this report.

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INTRODUCTION

The Aero Systems Engineering of Texas, Inc. hush-house is 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 on the aircraft structure and large induced air flow around the tail section cools aircraft surfaces. This one enclosure can serve many different aircraft types and provides an efficient enclosed work area for maintenance personnel.

This report provides measured and extrapolated data defining bioacoustic environments produced by the following list of aircraft and engines operating in this hush-house during ground runup operations: F-4, F-15, F-16, F-105, F-106, 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. Such data are essential to evaluate ear protection requirements, limiting personnel exposure times, voice communication capabilities, and annoyance problems associated with ground runups of these aircraft/engines operating in the hush-house noise suppressor.

This volume is one of a series published by the Air Force Aerospace Medical Research Laboratory (AFAMRL) under the same report number (AMRL-TR-75-50) as a multi-volume handbook that quantifies the noise environments produced at flight/ground crew locations and in surrounding communities by operations of Air Force aircraft and ground support equipment. The far-field, community-type noise data in the handbook describe the noise produced during ground operations of aircraft, ground support equipment, and other ground-based equipment or facilities.

Volume 1 of this handbook discusses the objectives and design of the handbook, the types of data presented, measurement procedures, instrumentation, data processing, definitions of quantities, symbols, equations, applications, limitations, etc. *Refer to Volume 1* (reference 1) for such information because it is not repeated in other handbook volumes.

A cumulative index lists those aerospace systems contained in the handbook, and identifies the specific volumes containing each type of environmental noise data available (i.e., inflight/flight crew and passenger noise, near-field/ground crew noise, far-field/community noise). Volume numbers are assigned sequentially as individual volumes are published. This index is periodically updated as individual volumes are published and is available upon request from AFAMRL/BBE, Wright-Patterson AFB, OH 45433. Organizations on the distribution list for the handbook will automatically receive a copy of each updated index.

Direct any questions concerning the technical data in this report and other handbook volumes to AFAMRL/BBE, Wright-Patterson AFB, OH 45433; AUTOVON 78-53675 or 78-53664; Commercial (513) 255-3675 or (513) 255-3664.

1. Cole, John N., *USAF Bioenvironmental Noise Data Handbook Volume 1: Organization, Content and Application,* AMRL-TR-74-50 (1), Air Force Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Ohio, 1975.

FAR-FIELD NOISE

Measurements

AFAMRL acquired the far-field data during a 1-2-hour test period for each aircraft/engine operating in the hush-house, thus keeping 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 a relatively large distance apart (over 100 ft.) causing the hush-house to act like 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.

A portable microphone/tape-recorder system was used to sequentially record the noise 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 then 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.

Table 1 presents a list of definitions of the acoustical quantities and terminology used in this report.

Tables X.1 provide cockpit readouts of engine characteristics (% RPM, fuel flow, etc.) for each power setting used in the far-field tests. Also listed in these tables are the surface meteorological conditions during acquisition of the noise data for each aircraft/engine operating in the hush-house.

Tables X.2 list the overall and 1/3 octave band SPL_t measured at the far-field locations under meteorlogical conditions at the time of each test. Data in all other figures and tables are based on these levels. These data were normalized to 100 meters distance and standard meteorlogical conditions (15°C temperature, 70% relative humidity, 0.760 meter Hg barometric pressure) and used to derive the graphic data in Figures X.1 which provides a compact summary of the far-field noise characteristics of each aircraft/engine operating in the hush-house noise suppressor in a standard format.

Estimates of the noise levels for intermediate power settings (e.g., 90% RPM) and/or different number of engines operating (e.g., single engine) can be determined as explained in Volume 1 of this handbook.

Figures X.2 through X.8 are sets of equal noise contours describing seven different measures of noise as a function of angle and distance from the source for standard day meteorology. They are respectively, overall sound pressure level, C-weighted sound level, A-weighted sound level, perceived noise level, speech interference level, permissible exposure times for personnel and octave band sound pressure levels.

Data excessively influenced by spurious background/electronic noise were eliminated from all figures and tables.

Test personnel performed noise surveys during quiet periods when the background noise was minimal, e.g., early in the morning when no other aircraft or engine test stands were operating. Data eliminated because they were near the background/electronic noise were generally not significant because the levels were so low.

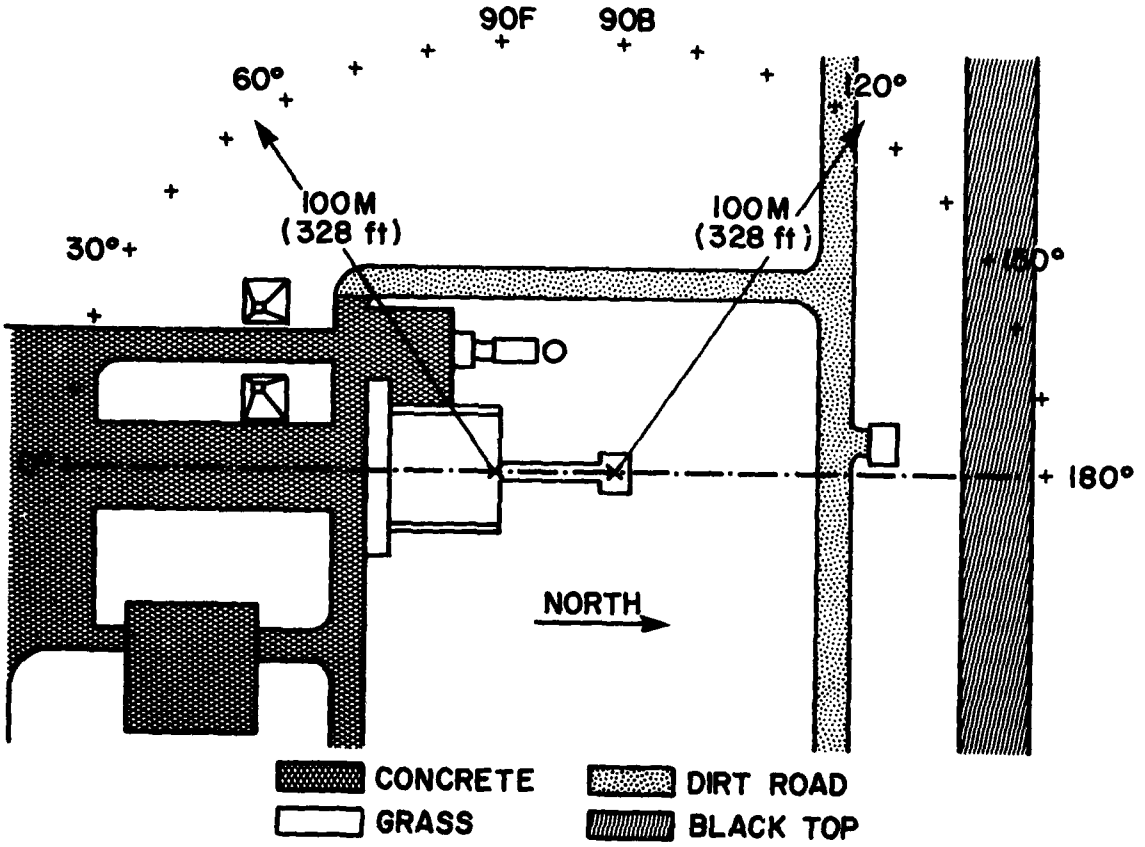


Fig. 1 Hush-House Far-Field Measurement Locations

TABLE 1
DEFINITIONS OF ACOUSTICAL TERMS

OASPL	Overall Sound Pressure Level, Energy Summation of Sound Pressure Levels In All 1/3 Octave Bands With No Frequency Weighting Applied
OASLC	C-Weighted Overall Sound Level, in dBC, As Specified in American National Standards Institute (ANSI) Standard Number S1.4-(R1976)
OASLA	A-Weighted Overall Sound Level, in dBA, As Specified in ANSI Standard Number S1.4-(R1976)
PNLT	Tone Corrected Perceived Noise Level As Specified in Federal Aviation Regulation (FAR) Part 36
PSIL	Preferred Speech Interference Level
dB	Decibel, Logarithmic Ratio

TABLE 2.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS F-4 AIRCRAFT IN THE ASE-TEXAS INC. HUSH-HOUSE, GROUND RUNUP KELLY AFB TEXAS, TEST #BF-702-001

Aircraft Engine Operation	Single Engine
Idle	65 % RPM
	1100 LBS/HR FF
	380 EGT
85%	85 % RPM
	3000 LBS/HR FF
	430 EGT
Military Power	98.8 % RPM
	7000 LBS/HR FF
	650 EGT
Afterburner Power	98.8 % RPM
	7000+ LBS/HR FF
	650 EGT
Meteorology	
Temperature	34 C
Bar Pressure	.737 M Hg
Rel Humidity	51 %
Wind - Speed	3 M/Sec (6 Kts)
- Direction	160 Deg

TABLE: 2.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST 8F-702-001
RUN 01
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 34 C
BAR PRESS = .737 M HG
REL HUMID = 51 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	59	59	63	66	75	73	74	74	70	68	64	70	68	68	68	68	68	68	68
16	60	60	62	66	68	69	70	71	67	67	63	68	66	66	66	66	66	66	66
20	60	60	62	64	70	70	70	69	67	67	63	68	65	65	65	65	65	65	65
25	61	61	60	63	68	69	70	71	64	65	63	67	64	64	64	64	64	64	64
31.5	69	69	63	67	66	67	70	73	73	71	69	67	65	65	65	65	65	65	65
40	70	70	63	72	68	68	73	77	74	74	70	71	67	67	67	67	67	67	67
50	59	59	56	59	64	64	64	63	64	65	62	61	58	58	58	58	58	58	58
63	55	55	55	56	61	59	60	61	61	62	66	60	60	60	60	60	60	60	60
80	53	53	53	58	64	58	59	61	56	58	61	57	59	59	59	59	59	59	59
100	55	55	53	52	54	54	54	54	52	57	58	59	53	59	59	59	59	59	59
125	53	53	50	51	50	52	52	52	51	55	58	58	53	59	59	59	59	59	59
160	48	48	45	53	50	45	50	54	45	48	53	53	57	57	57	57	57	57	57
200	48	48	43	43	45	41	42	43	43	42	46	48	52	52	52	52	52	52	52
250	46	46	42	42	43	39	43	46	41	41	44	45	48	48	48	48	48	48	48
315	44	44	38	40	43	37	42	47	40	39	42	42	47	47	47	47	47	47	47
400	40	40	35	38	42	36	41	45	38	36	39	39	45	45	45	45	45	45	45
500	40	40	36	37	40	37	38	40	37	35	39	39	43	43	43	43	43	43	43
630	39	39	34	33	36	36	36	36	37	36	39	39	44	44	44	44	44	44	44
800	37	37	31	32	34	34	35	35	37	36	40	40	44	44	44	44	44	44	44
1000	38	38	32	31	34	34	34	35	37	36	43	40	45	45	45	45	45	45	45
1250	38	38	33	31	33	34	34	34	37	36	42	38	43	43	43	43	43	43	43
1600	39	39	36	34	36	36	35	34	37	37	41	39	42	42	42	42	42	42	42
2000	35	36	35	33	35	37	35	33	35	36	43	38	41	41	41	41	41	41	41
2500	34	34	34	31	32	37	34	30	32	32	35	35	37	37	37	37	37	37	37
3150	31	31	25	25	29	30	30	29	31	29	33	32	35	35	35	35	35	35	35
4000	29	29	24	24	29	30	29	28	29	27	30	29	31	31	31	31	31	31	31
5000	27	27	22	24	29	31	29	27	28	26	28	27	31	31	31	31	31	31	31
6300	26	26	22	23	29	31	28	26	29	25	28	27	28	28	28	28	28	28	28
8000	25	25	23	24	28	29	28	28	29	27	31	29	28	28	28	28	28	28	28
10000	20	20	22	24	27	28	27	26	32	26	31	28	26	26	26	26	26	26	26
OVERALL	74	74	71	75	79	78	79	81	79	78	75	77	75	75	75	75	75	75	75

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 2.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 02
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 34 C
BAR PRESS = .737 M HG
REL HUMID = 51 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	74	72	72	72	73	75	71	75	73	74	79	78	78	78	78	78	78	78	78
16	71	72	72	72	72	71	72	74	78	76	79	78	78	79	79	79	79	79	79
20	70	71	71	71	72	73	74	73	75	75	80	80	78	79	79	79	79	79	79
25	69	68	66	64	66	69	69	71	69	71	74	72	76	74	74	74	74	74	74
31.5	73	68	68	67	66	66	68	71	73	72	71	71	71	73	73	73	73	73	73
40	74	70	71	72	71	69	70	74	75	73	70	72	71	72	72	72	72	72	72
50	70	66	65	64	66	68	69	70	70	69	66	68	67	69	69	69	69	69	69
63	66	62	62	63	64	65	67	68	68	69	65	67	69	68	68	68	68	68	68
80	67	65	63	60	62	65	64	65	65	64	68	69	67	66	66	66	66	66	66
100	62	61	61	60	60	60	60	59	57	61	66	67	69	66	66	66	66	66	66
125	60	60	59	58	58	58	54	56	54	60	54	64	67	64	64	64	64	64	64
160	57	55	53	51	51	51	50	50	49	53	57	61	62	57	57	57	57	57	57
200	52	47	48	49	48	48	45	43	43	48	48	51	55	52	52	52	52	52	52
250	47	45	45	45	43	42	40	40	41	43	46	49	50	50	50	50	50	50	50
315	51	46	48	50	47	43	38	43	42	42	45	48	49	48	48	48	48	48	48
400	47	43	42	41	41	41	37	42	39	41	44	44	43	45	45	45	45	45	45
500	47	45	43	41	44	46	42	44	40	42	43	44	46	46	46	46	46	46	46
630	44	42	41	39	41	43	42	42	41	43	43	45	48	48	48	48	48	48	48
800	41	38	37	36	38	40	41	42	39	42	43	45	49	50	50	50	50	50	50
1000	40	38	36	35	37	39	38	40	36	38	41	43	45	49	49	49	49	49	49
1250	42	41	39	37	39	40	38	38	35	36	39	42	45	50	50	50	50	50	50
1600	42	40	36	36	37	38	37	38	34	37	38	41	43	50	50	50	50	50	50
2000	42	41	40	39	39	39	36	36	34	36	38	41	41	48	48	48	48	48	48
2500	40	42	40	38	38	38	36	35	32	35	37	37	37	43	43	43	43	43	43
3150	32	34	32	29	30	31	31	32	30	32	32	35	34	39	39	39	39	39	39
4000	30	28	27	26	27	28	28	31	30	30	29	31	31	35	35	35	35	35	35
5000	31	29	28	26	28	29	29	32	31	30	29	31	30	34	34	34	34	34	34
6300	31	29	27	25	27	30	29	32	31	30	28	28	28	31	31	31	31	31	31
8000	29	30	27	25	27	29	29	32	31	31	29	28	27	31	31	31	31	31	31
10000	27	25	25	24	25	27	27	30	29	30	28	28	26	29	29	29	29	29	29
OVERALL	81	79	79	79	79	80	80	82	83	82	85	85	85	85	85	85	85	85	85

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE 2.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 03
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

OPERATION:
MILITARY POWER (98.6%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 34 C
BAR PRESS = .737 M HG
REL HUMID = 51 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	81	81	77	80	79	79	79	78	81	85	86	87	87	84	84	84	84	84	84
16	79	77	79	80	77	79	79	79	82	85	87	88	87	86	86	86	86	86	86
20	72	74	74	79	78	78	81	77	80	85	88	87	87	85	85	85	85	85	85
25	70	70	72	69	73	74	76	75	77	81	82	82	84	84	84	84	84	84	84
31.5	74	71	69	69	72	71	71	73	74	76	78	80	80	81	81	81	81	81	81
40	74	73	70	73	70	71	73	75	75	76	74	75	77	77	77	77	77	77	77
50	71	71	69	68	71	73	73	70	72	73	69	73	71	74	74	74	74	74	74
63	70<	66<	67<	67<	71<	70<	69<	68<	70<	74	70<	71<	73	71<	71<	71<	71<	71<	71<
80	72	69	65	66	68	70	68	68	69	70	74	73	74	71	71	71	71	71	71
100	67	66	63<	66	63<	66	66	63<	62<	68	74	72	76	73	73	73	73	73	73
125	61<	65	63<	63<	60<	61<	59<	58<	60<	68	70	69	73	70	70	70	70	70	70
160	62<	61<	58<	57<			56<			62<	63<	65<	69	55<	65<	65<	65<	65<	65<
200	59	55<	57	57	54<	55<	53<	49<	52<	58	56	59	61	51	61	61	61	61	61
250	54	57	59	54	54	52	52	50<	52	52	53	56	57	58	58	58	58	58	58
315	57	57	57	55	53	47<	49<	50<	53	50<	52	55	53	55	55	55	55	55	55
400	58	56	58	53<	55	51<	52<	51<	55	50<	50<	53<	55	54<	54<	54<	54<	54<	54<
500	59	57	57	53<	57	58	54<	55<	54<	51<	54<	54<	56	58	58	56	58	58	58
630	56<	53<	53<	50<	53<	54<	52<	53<	54<	54<	53<	56<	57	59	59	59	59	59	59
800	52<	51<	49<		50<	52<	54<	52<	53<	54<	53<	56<	58	61	61	61	61	61	61
1000	49<				49<	50<	49<		50<		49<	53<	54<	58<	58<	58<	58<	58<	58<
1250	52<	53<	51<	47<	52<	52<	50<	47<	50<	47<	48<	52<	55<	57<	57<	57<	57<	57<	57<
1600	49<	49<	47<	44<	48<	46<	48<		51<	44<	45<	51<	53<	57	57	57	57	57	57
2000	45<	47<	45<	43<	43<		47<	44<	51<		44<	49<	51<	55	55	55	55	55	55
2500							44<		47<			45<	47<	48<	48<	48<	48<	48<	48<
3150							42<		46<			43<	44<	45<	45<	45<	45<	45<	45<
4000							42<	37<	47<	37<		41<	39<	42<	42<	42<	42<	42<	42<
5000	36<	33<					42<	37<	47	37<	36<	40<	38<	40<	40<	40<	40<	40<	40<
6300	36<	33<			31<		43	37<	49	36<	36<	41<	36<	38<	38<	38<	38<	38<	38<
8000	34<						40<	35<	45	35<	35<	39<	35<	38<	38<	38<	38<	38<	38<
10000	33<	29<	26<	28<	29<	28<	40	35<	45	33<	35<	39	33<	34<	34<	34<	34<	34<	34<
OVERALL	85	84	83	85	84	85	86	85	87	91	93	93	93	92	92	92	92	92	92

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 2.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 04
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 34 C
BAR PRESS = .737 M HG
REL HUMID = 51 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	88	88	86	86	86	86	87	85	85	91	93	93	93	93	92	91	93	92	93
16	86	85	84	85	84	84	85	89	85	91	94	93	94	95	94	95	95	95	94
20	82	82	85	84	85	87	86	87	89	93	94	94	96	94	94	95	94	95	97
25	78	75	79	80	82	85	86	86	87	90	94	93	95	94	95	95	94	96	97
31.5	77	74	72	77	79	81	82	82	85	85	88	91	91	91	92	92	91	93	93
40	80	75	74	77	79	78	84	86	83	85	85	87	87	87	90	91	87	91	92
50	77	76	76	76	81	79	85	89	87	87	81	85	86	89	87	90	89	89	89
63	73	71<	71<	75	76	76	79	81	79	82	81	81	84	83	80	81	83	83	83
80	75	71	69	72	73	77	76	78	77	76	81	82	81	80	77	80	80	78	74
100	74	70	71	71	72	72	69	71	70	76	82	81	84	84	81	76	84	74	72
125	70	71	68	69	70	71	66	69	69	75	80	81	86	82	78	75	82	72	71
160	67	68	66<	66<	66<	61<	64<	66<	64<	71	72	76	80	76	73	70	76	64<	64<
200	64	64	60	63	62	61	60	64	61	66	66	70	72	75	69	67	75	61	60
250	60	66	62	62	59	57	59	60	59	64	64	66	67	68	69	67	68	64	61
315	65	65	66	60	60	56	59	60	55	61	63	64	61	65	66	68	65	67	61
400	64	60	64	58	61	57	59	62	59	62	62	65	64	64	64	67	64	66	61
500	65	63	62	59	61	63	62	64	58	60	62	65	65	65	66	67	65	65	60
630	63	61	59	58	61	63	62	63	60	63	61	65	66	66	66	69	66	66	61
800	62	57<	57<	55<	59	60	62	62	61	62	61	65	65	65	67	69	65	64	61
1000	61	56<	55<	54<	57<	59<	58<	59<	56<	57<	58<	63	62	62	65	65	62	63	58<
1250	62	60	59	55<	59	60	58	58	54<	57<	56<	61	62	63	64	67	63	65	59
1600	60	57	55	53<	57	55	57	58	53<	54<	54<	60	60	64	65	66	64	61	57
2000	62	54	53<	53<	55	52<	56	58	53<	51<	51<	58	59	61	60	61	61	57	55
2500	55	48<	49<	50<	53<	49<	53	54	50<	49<	49<	55	54	54	55	59	54	56	54
3150	56	42<	42<	46<	49<	47<	52	54	50<	49<	47<	53	51<	52	52	57	52	52	51
4000	50	39<	39<	44<	49	43<	51	54	49	48	44<	49	49<	48	49	54	48	48	49
5000	42<	40<	39<	43<	49	42<	50	53	50	48	44<	48	47	49	47	54	49	46	49
6300	40<	40<	38<	42	50	41<	51	54	49	47	42	45	44	46	45	50	46	45	49
8000	38<	37<	37<	40<	47	39<	49	52	48	47	42<	44	44	45	44	50	45	45	47
10000	35<	35<	34<	37	47	37	48	51	46	44	41	41	42	42	41	47	42	42	47
OVERALL	92	91	91	91	92	93	94	95	95	98	100	100	102	101	101	102	101	102	103

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

FIGURE 21 NORMALIZED FARFIELD NOISE LEVELS

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 01
26 OCT 81
PAGE 6

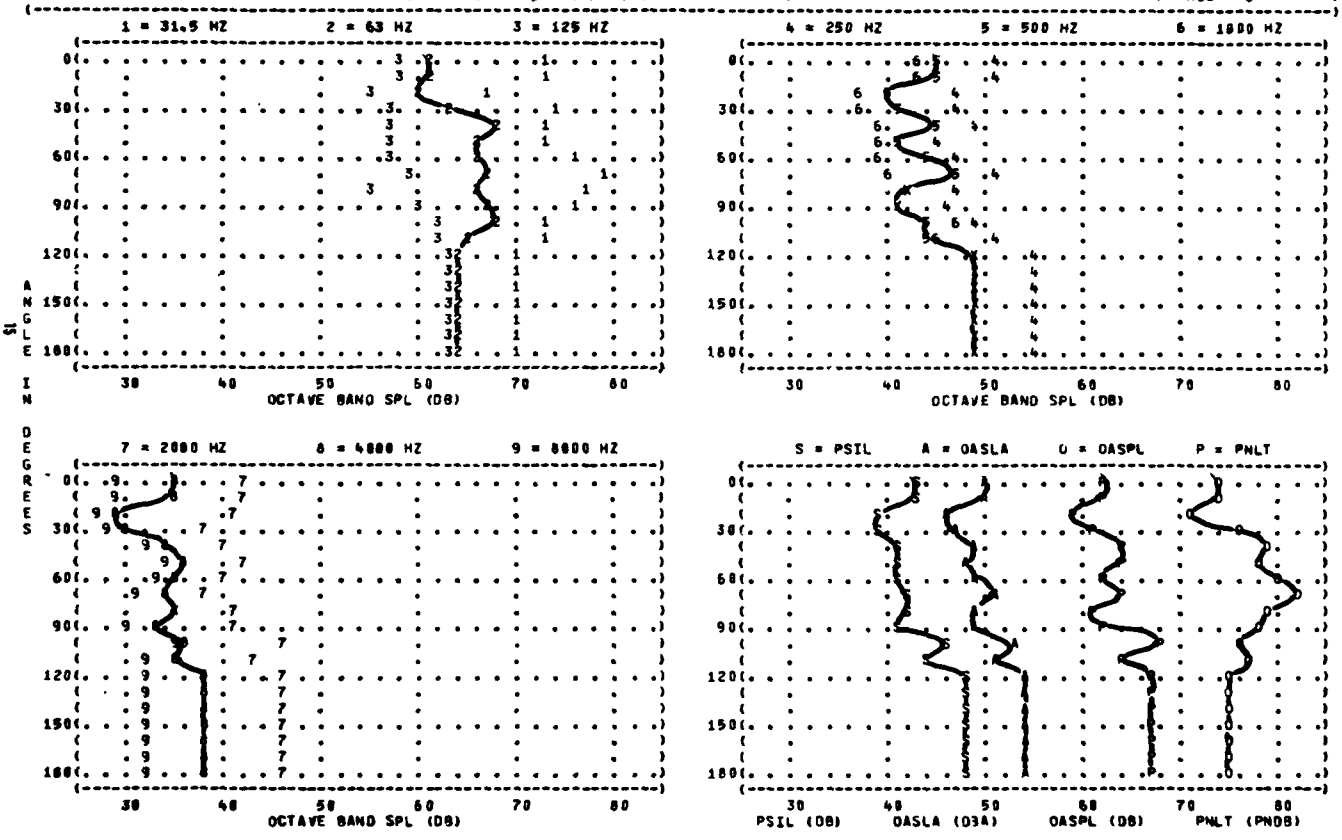


FIGURE: 2.1 NORMALIZED FARFIELD NOISE LEVELS

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-881
RUN 82
26 OCT 81
PAGE 6

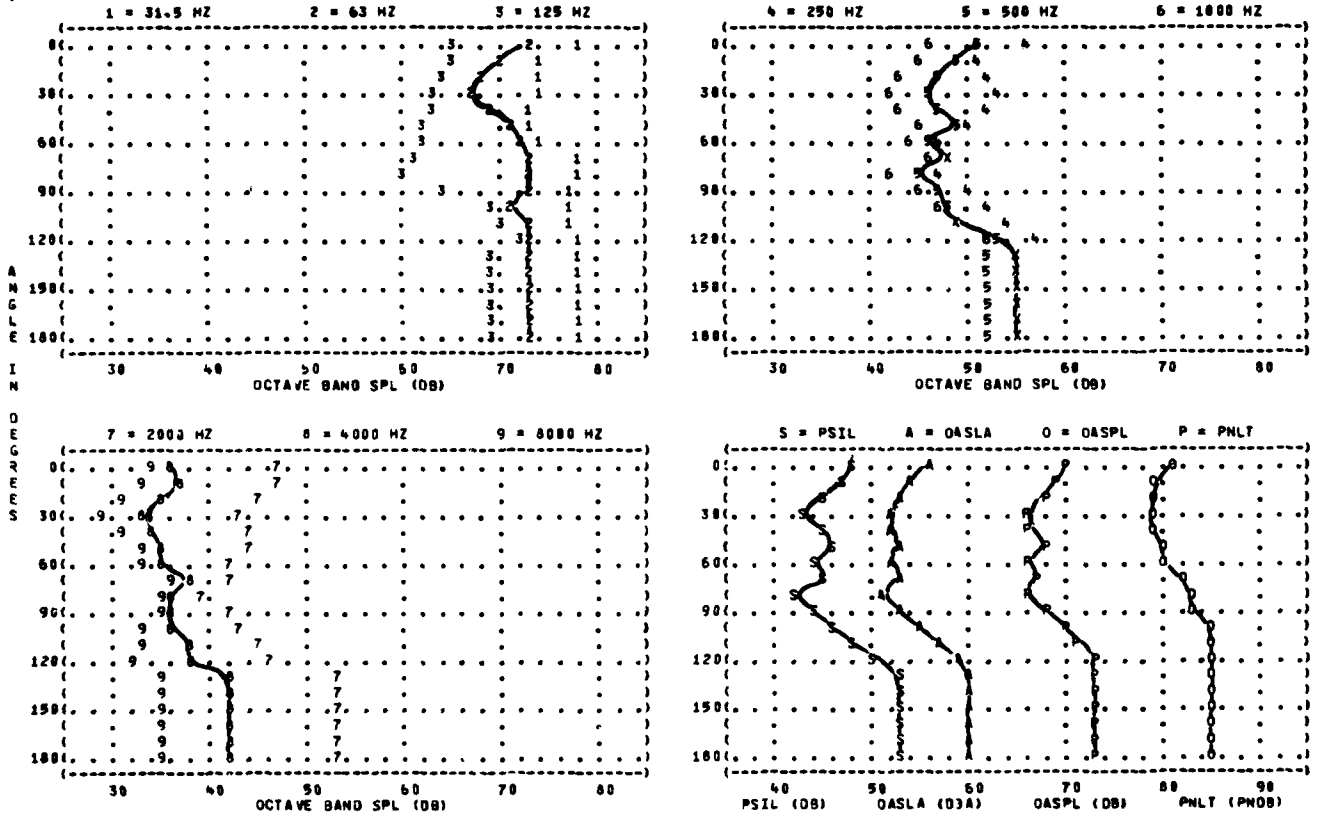


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

21

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-001
RUN 03
26 OCT 81
PAGE 6

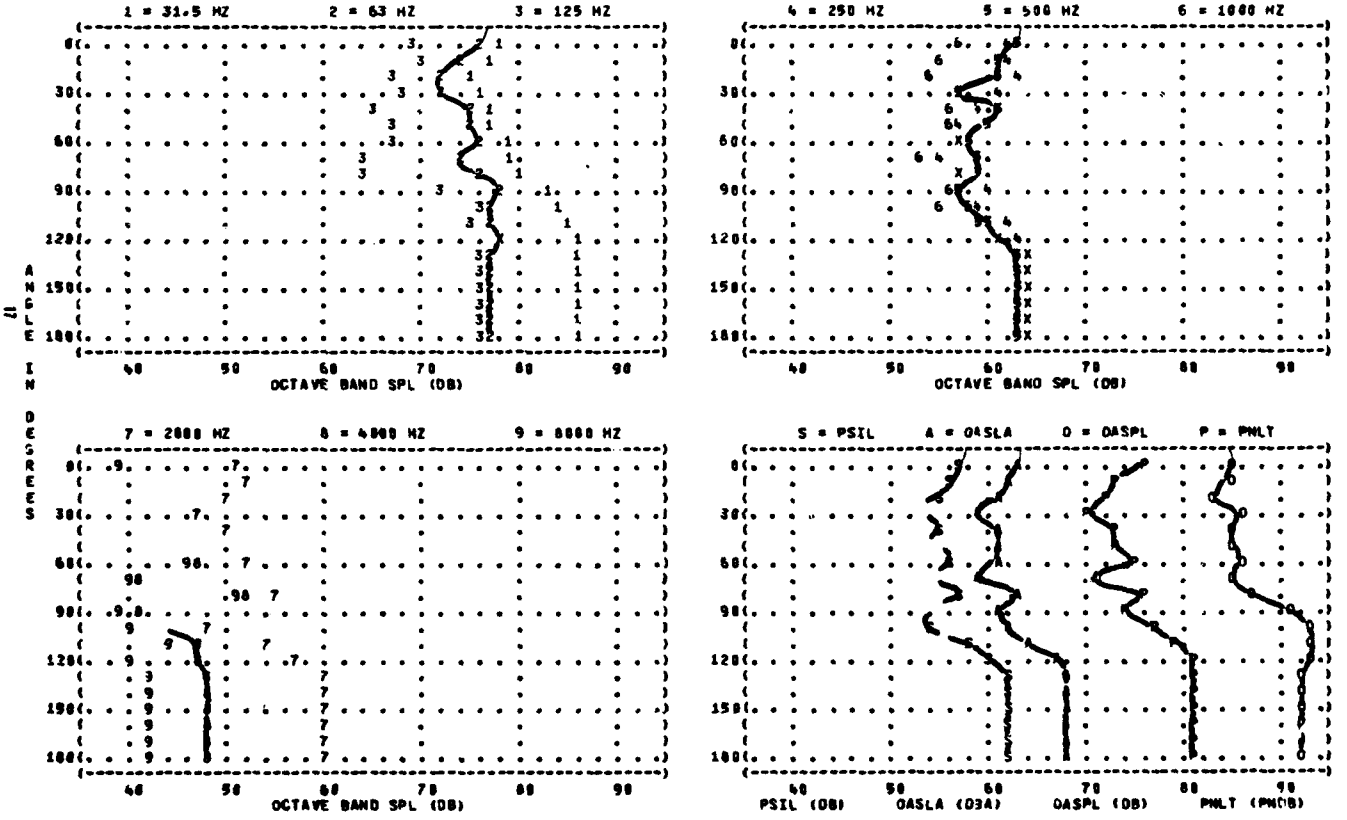


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

2.1

DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 04
26 OCT 81
PAGE 6

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

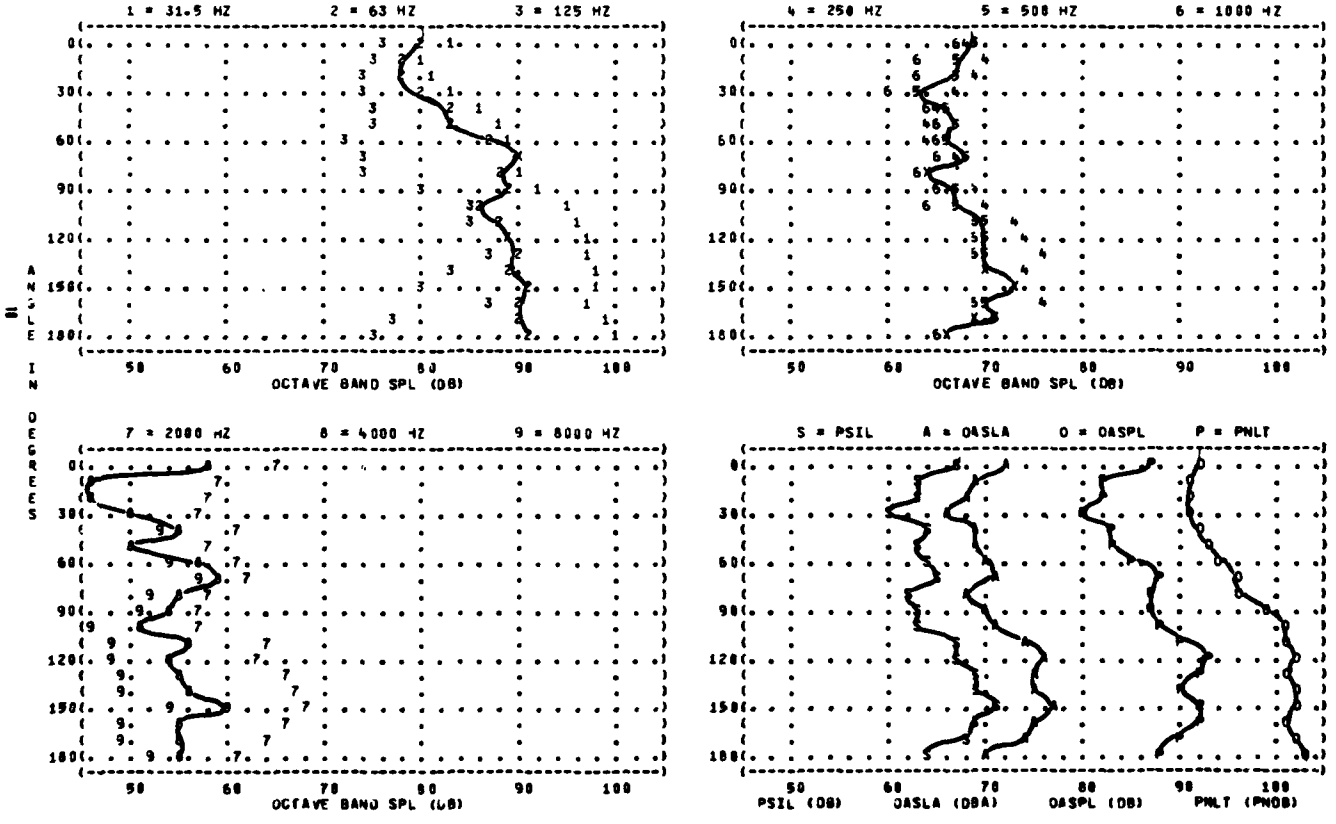


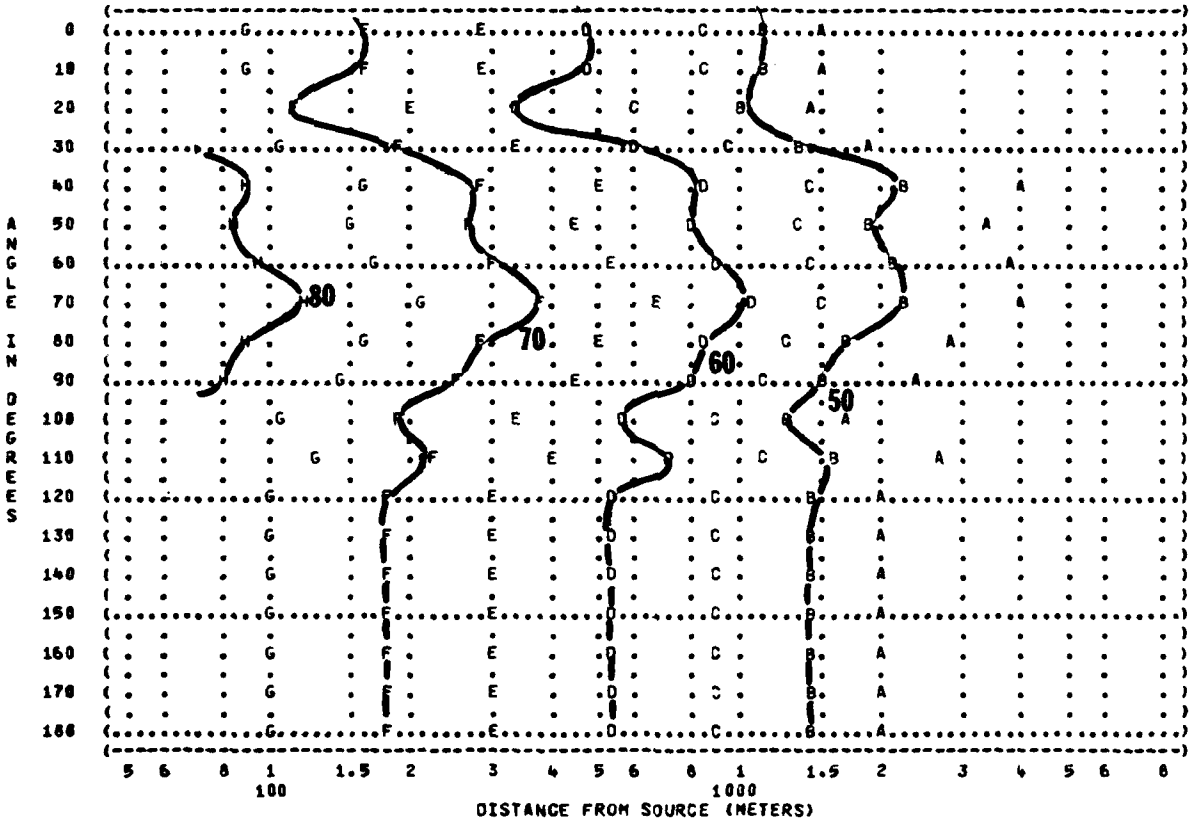
FIGURE: 2.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 01
26 OCT 81
PAGE 13



POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

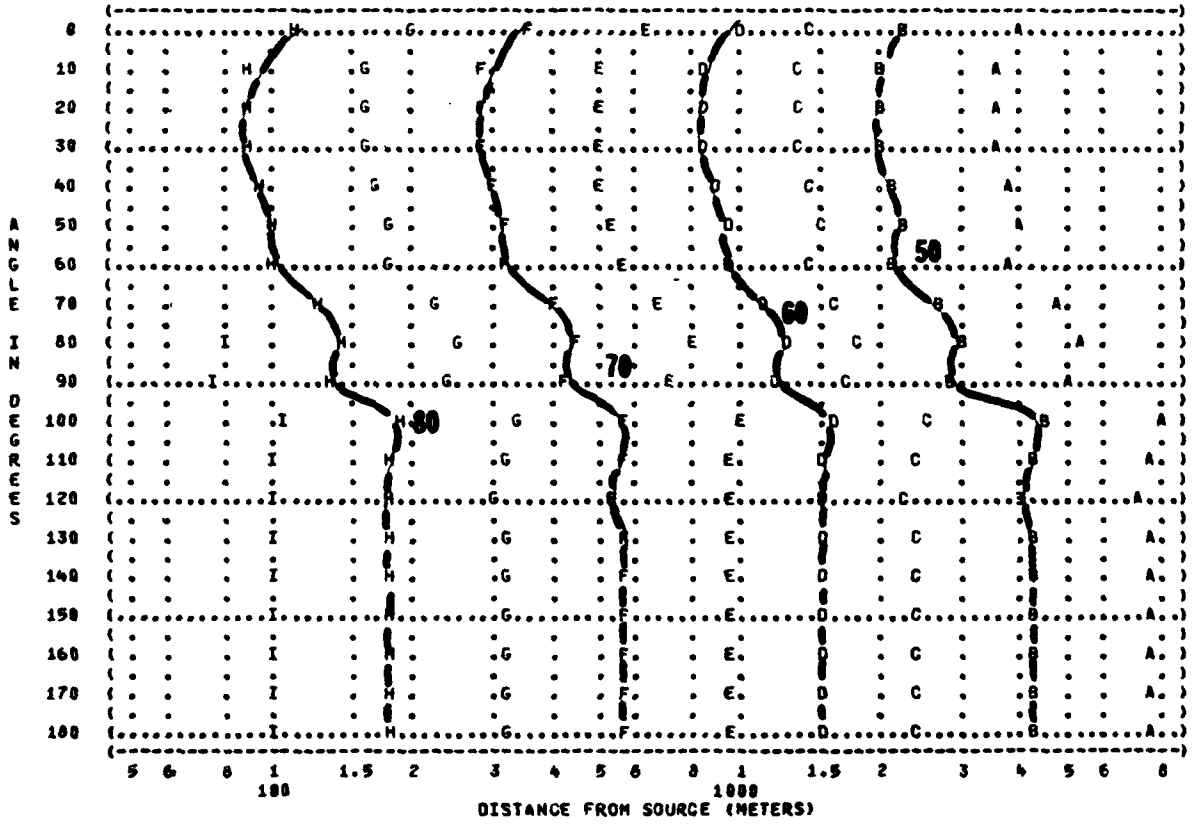
FIGURE: 2.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-881
RUN 02
26 OCT 81
PAGE 13



POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

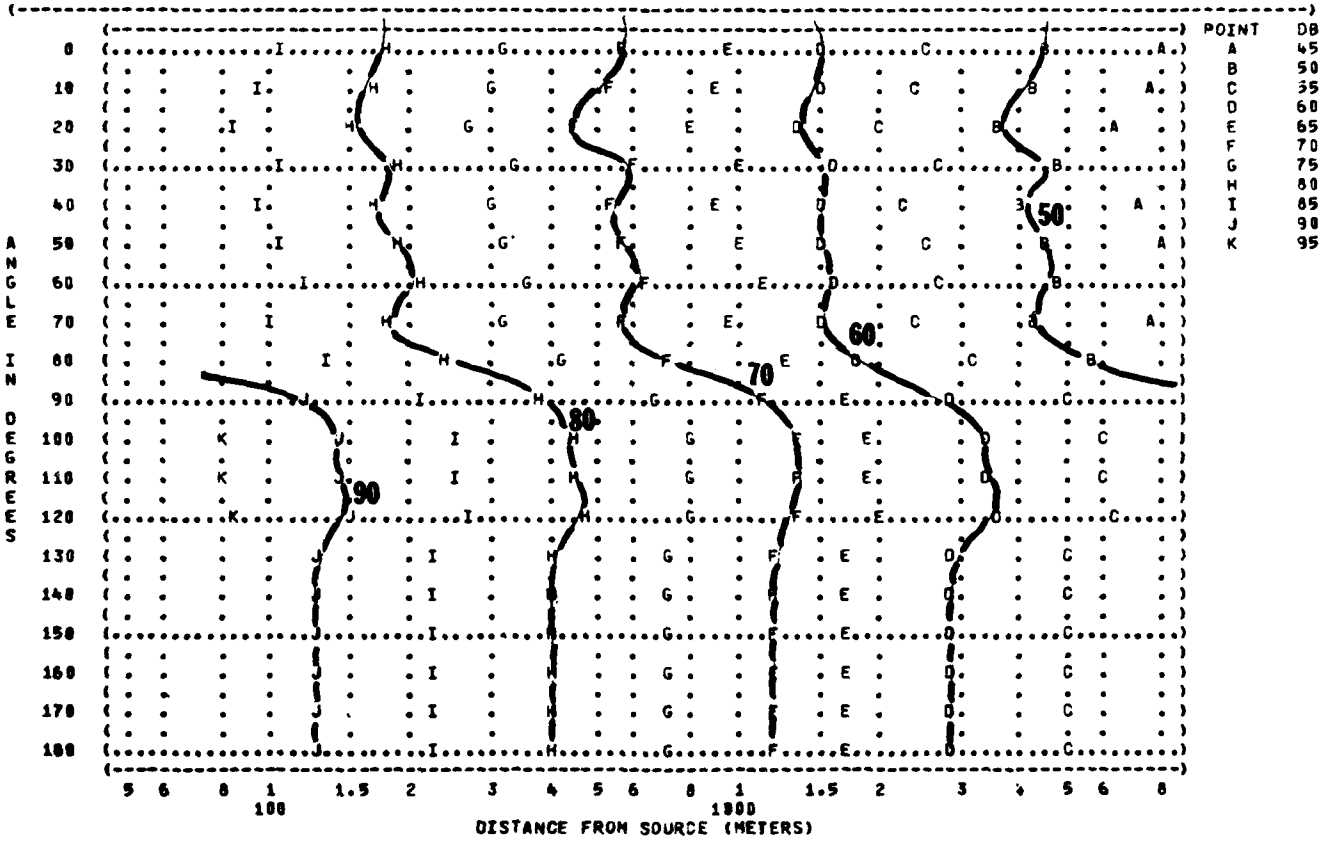
FIGURE 2.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (D3)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-702-001
RUN 03
26 OCT 81
PAGE 13

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95

FIGURE: 2.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 04
26 OCT 81
PAGE 13

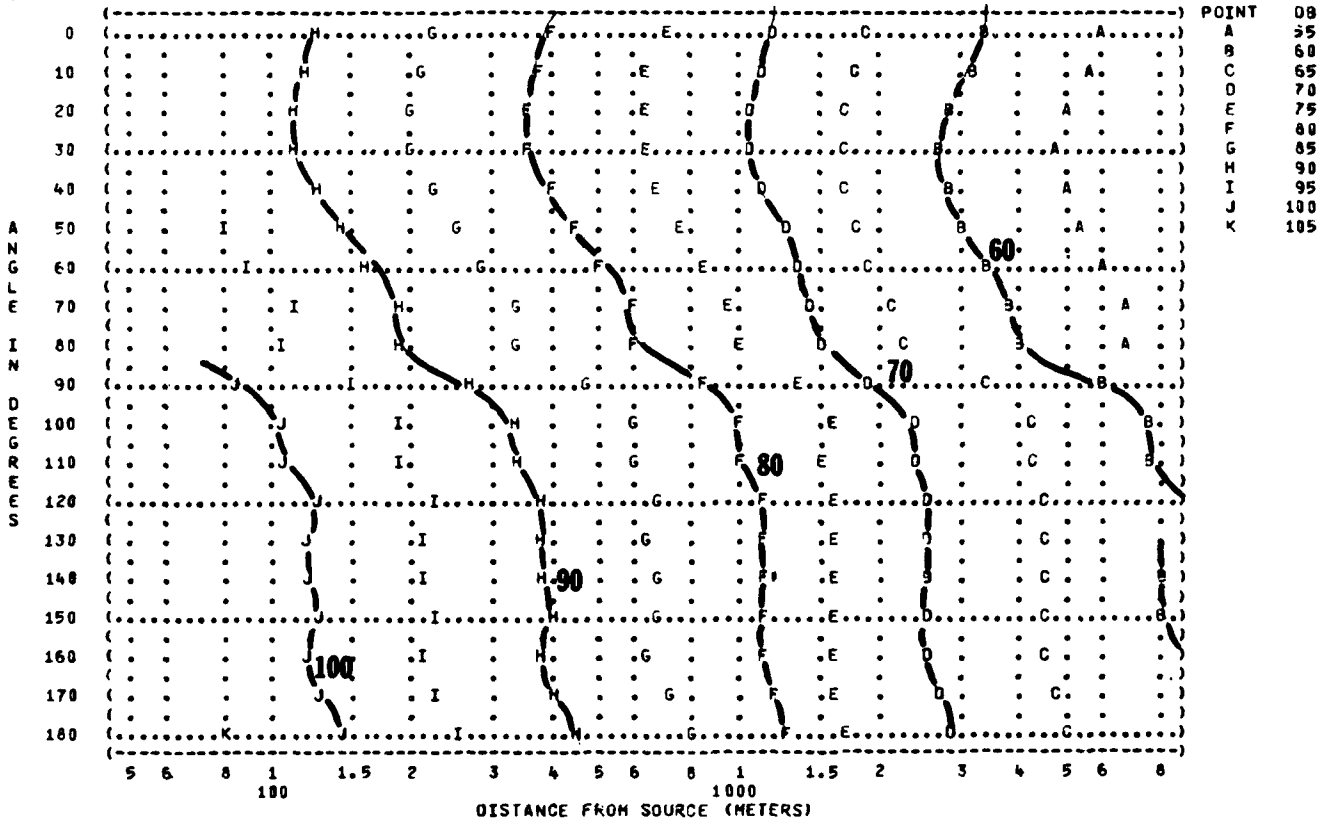


FIGURE: 2.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 01
26 OCT 81
PAGE 14

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

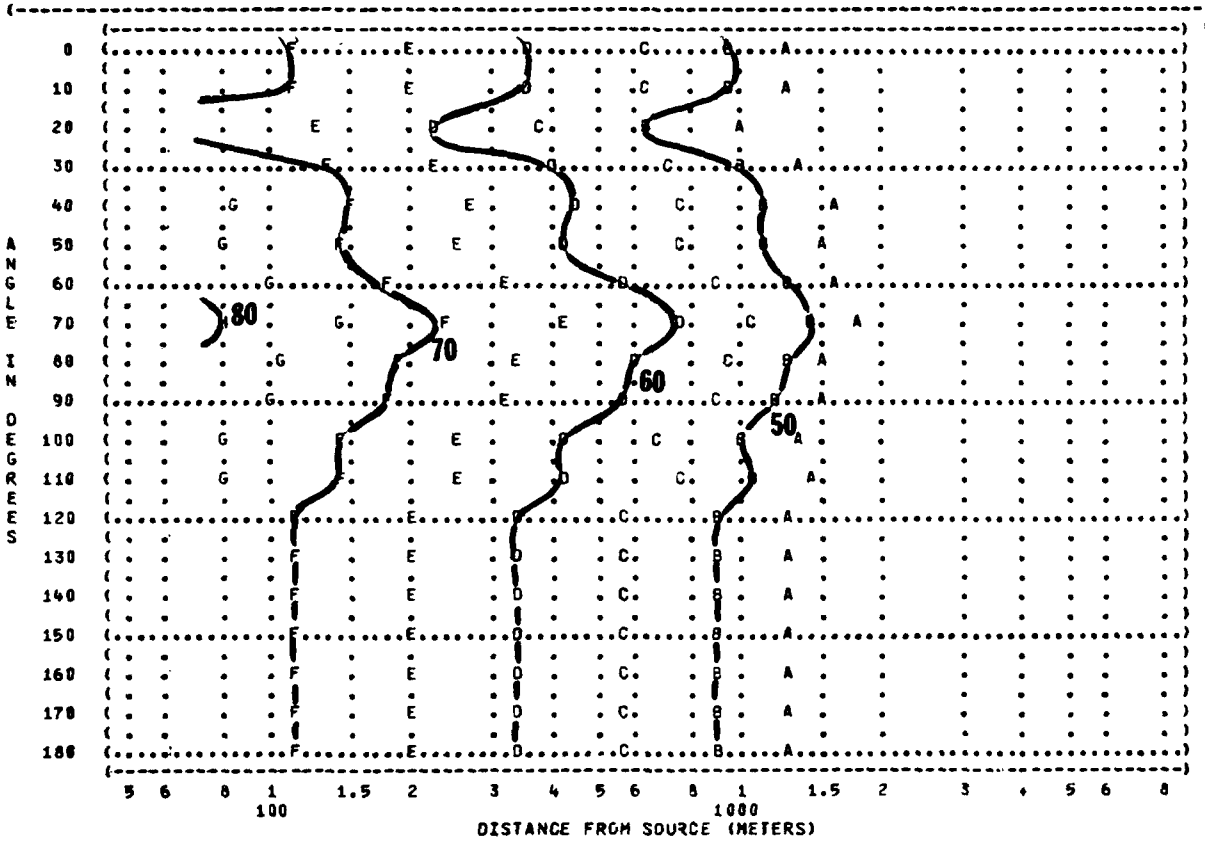


FIGURE: 2.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 02
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

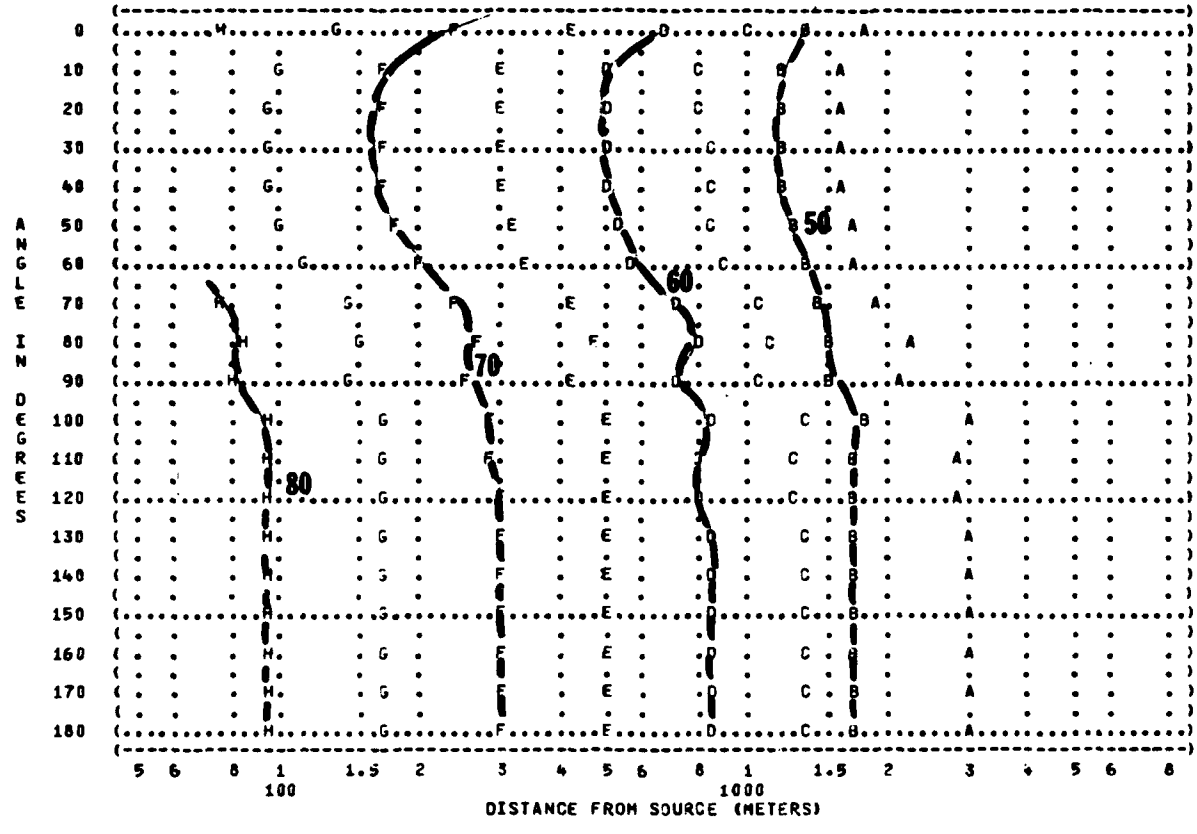


FIGURE: 2.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-001
RUN 03
26 OCT 81
PAGE 14

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

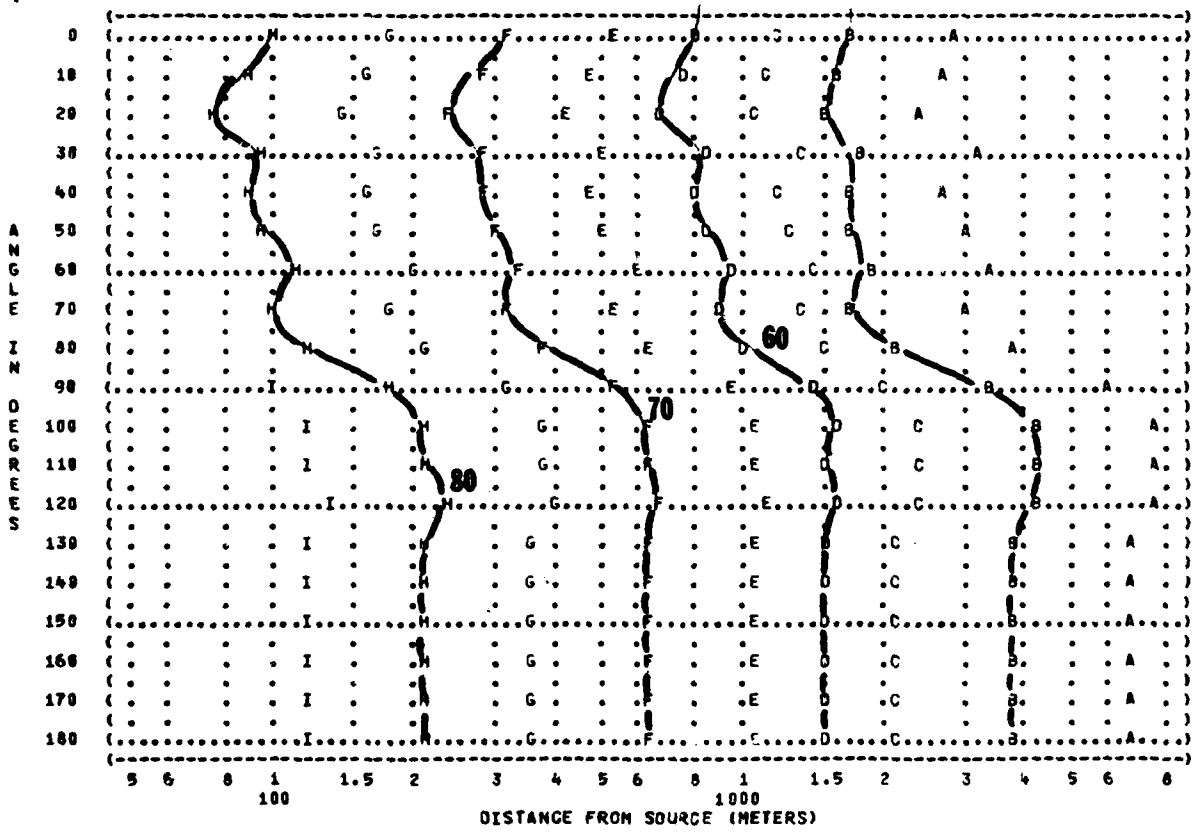


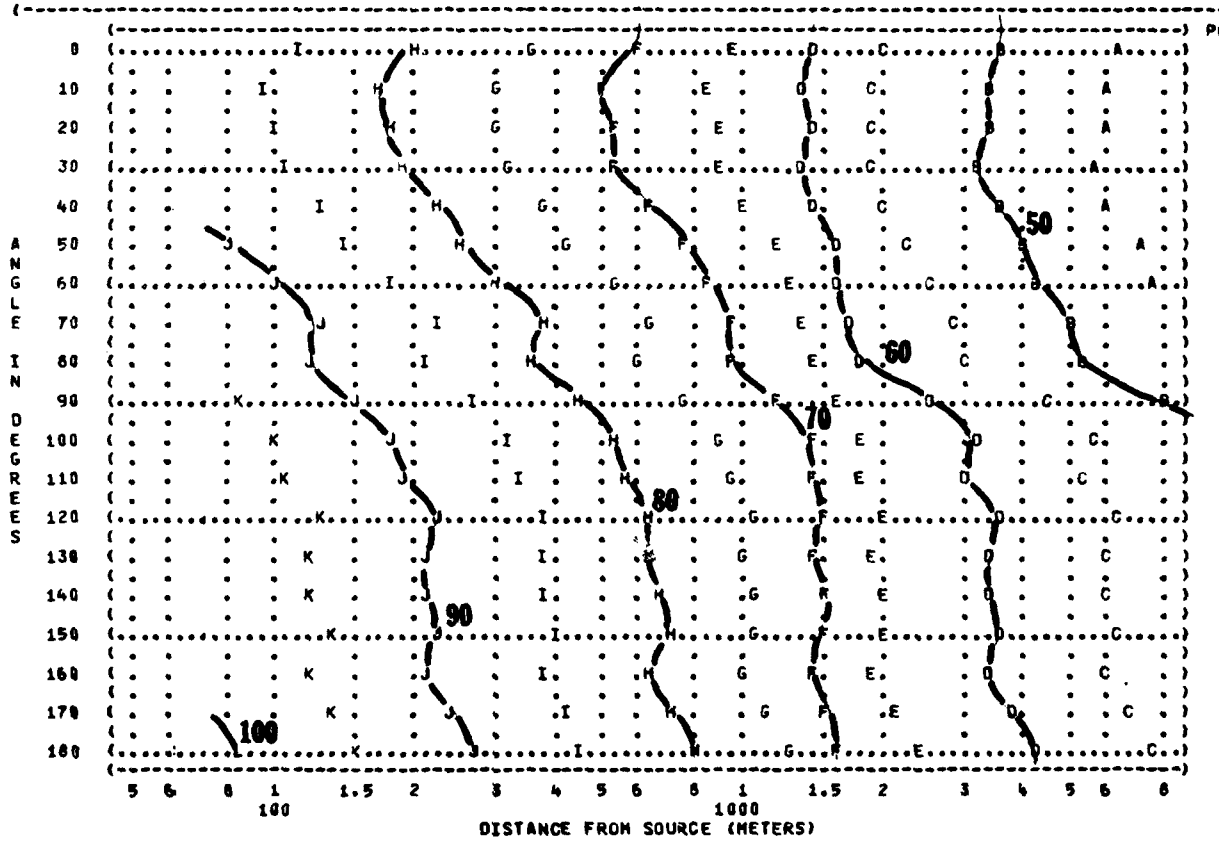
FIGURE 2.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
ONEGA 1.4
TEST BF-782-001
RUN 04
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95
L	100

FIGURE: 2.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (OBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-081
RUN 01
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55

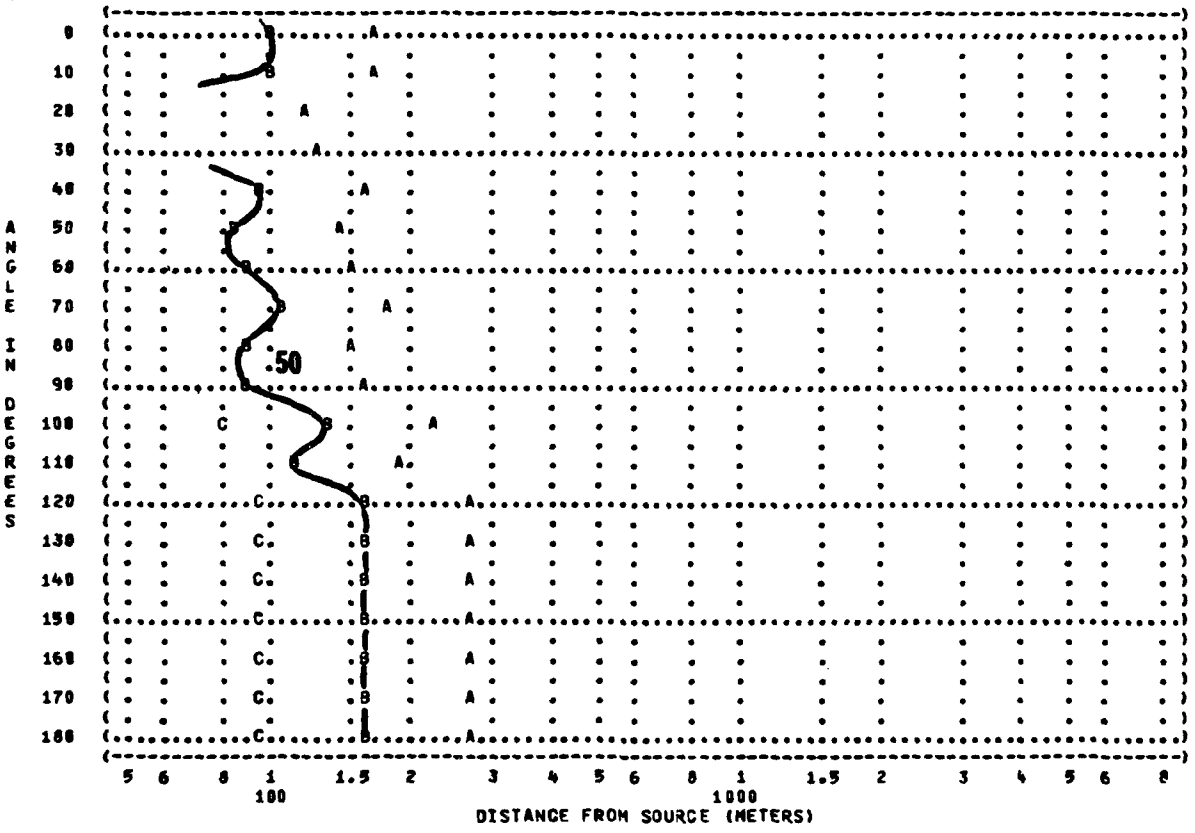


FIGURE 24 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-881
RUN 02
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60

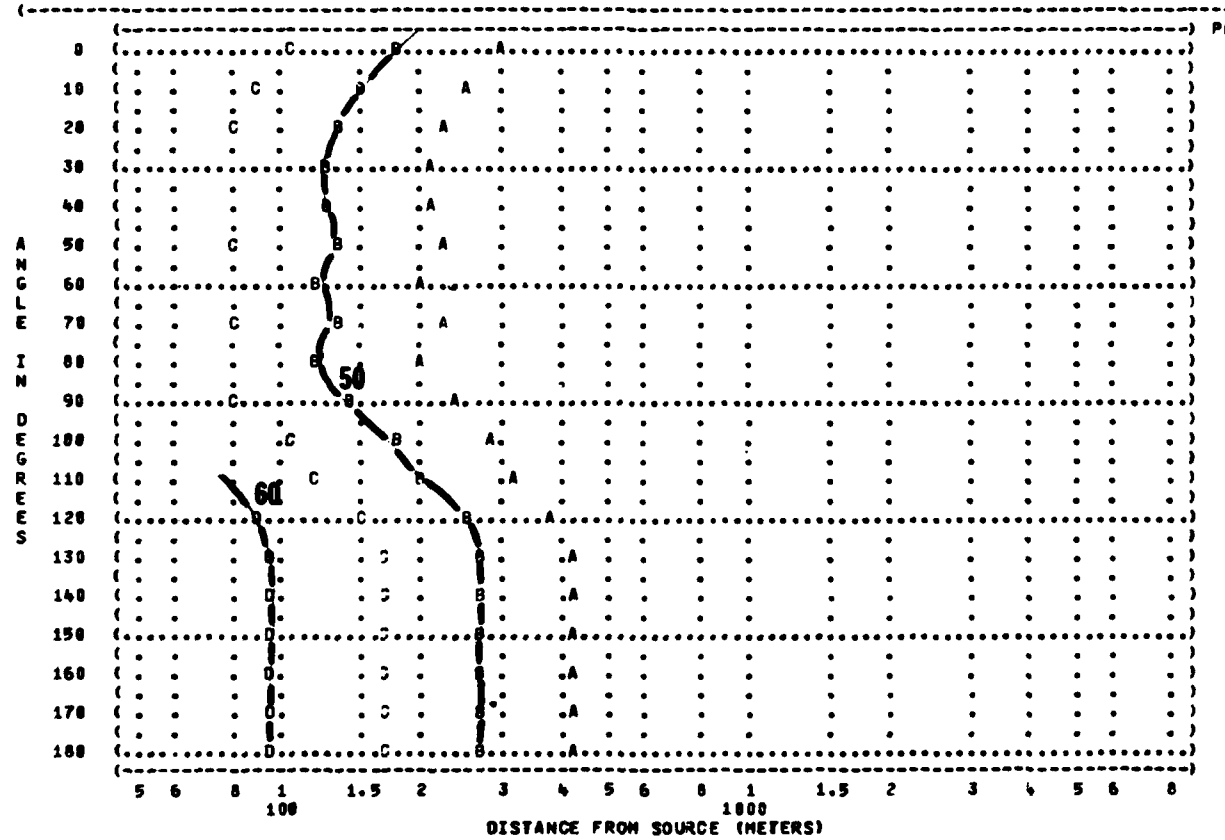


FIGURE: 2.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-001
RUN 03
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70

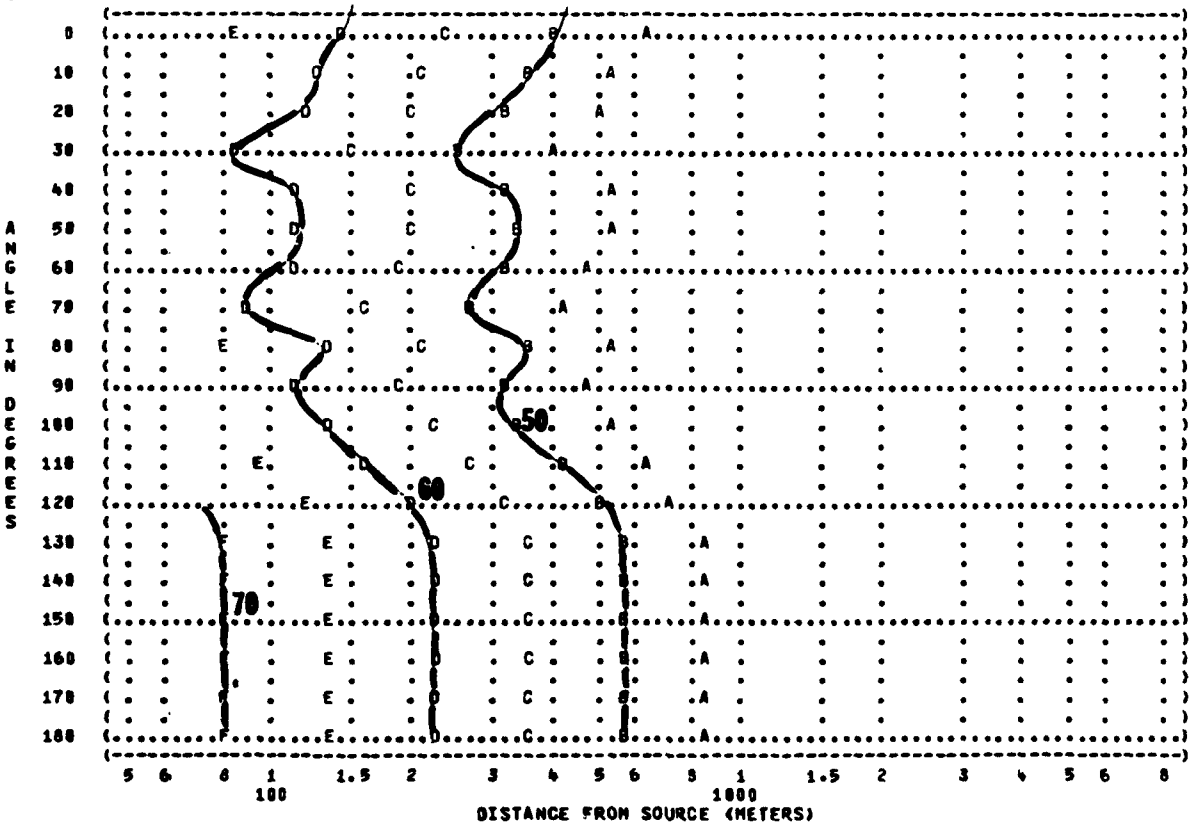


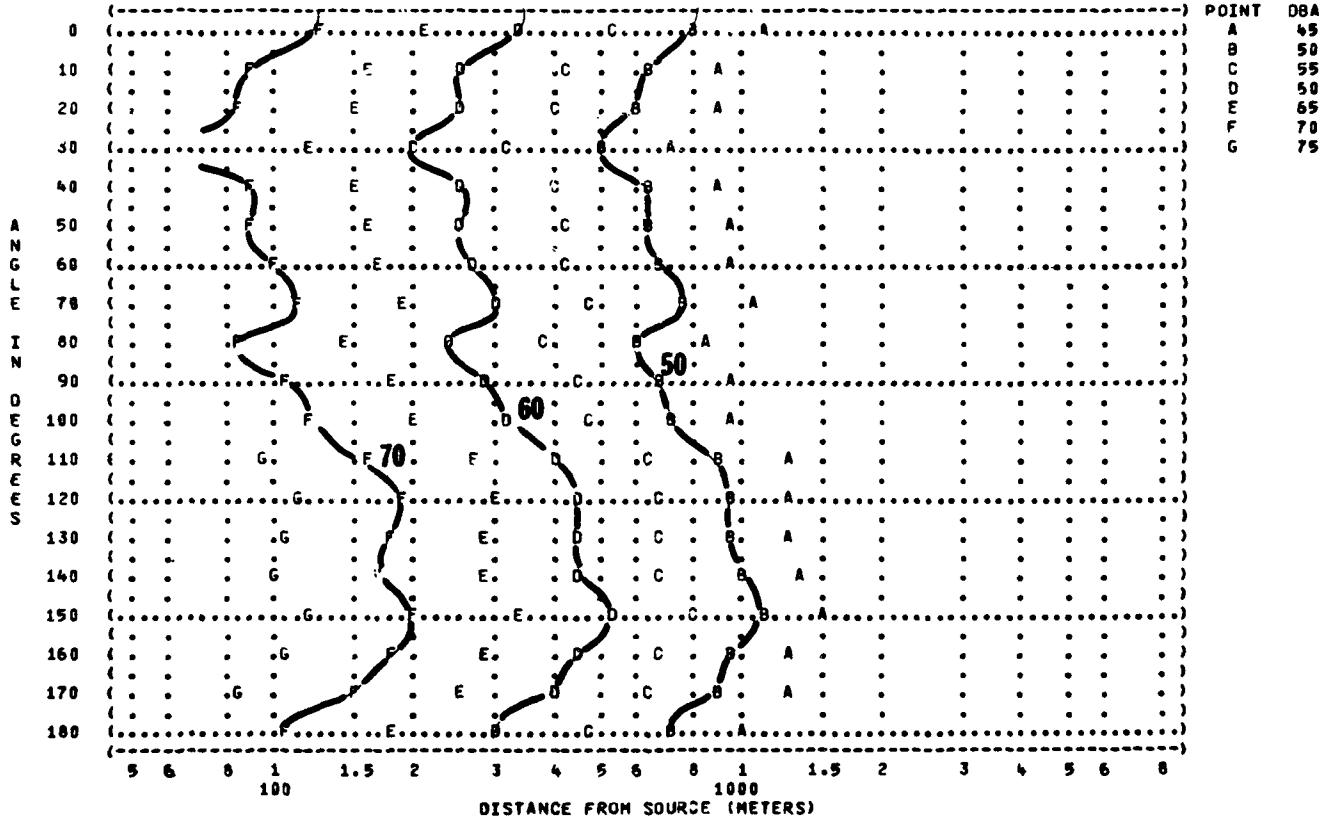
FIGURE 2.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-881
RUN 04
26 OCT 81
PAGE 15



POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70
G	75

FIGURE: 2.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 01
26 OCT 81
PAGE 16

POINT	PNDB
A	60
B	65
C	70

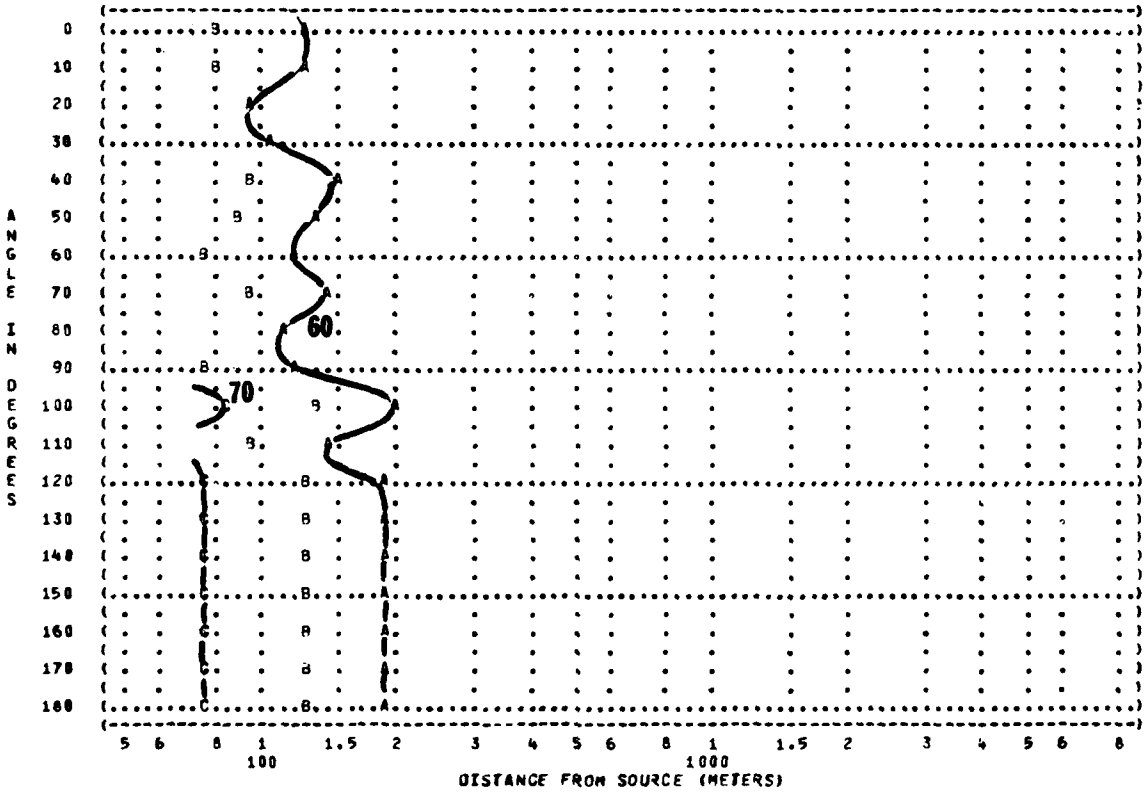


FIGURE 2.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 78 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-782-001
RUN 02
26 OCT 81
PAGE 16

POINT	PNDB
A	60
B	65
C	70
D	75

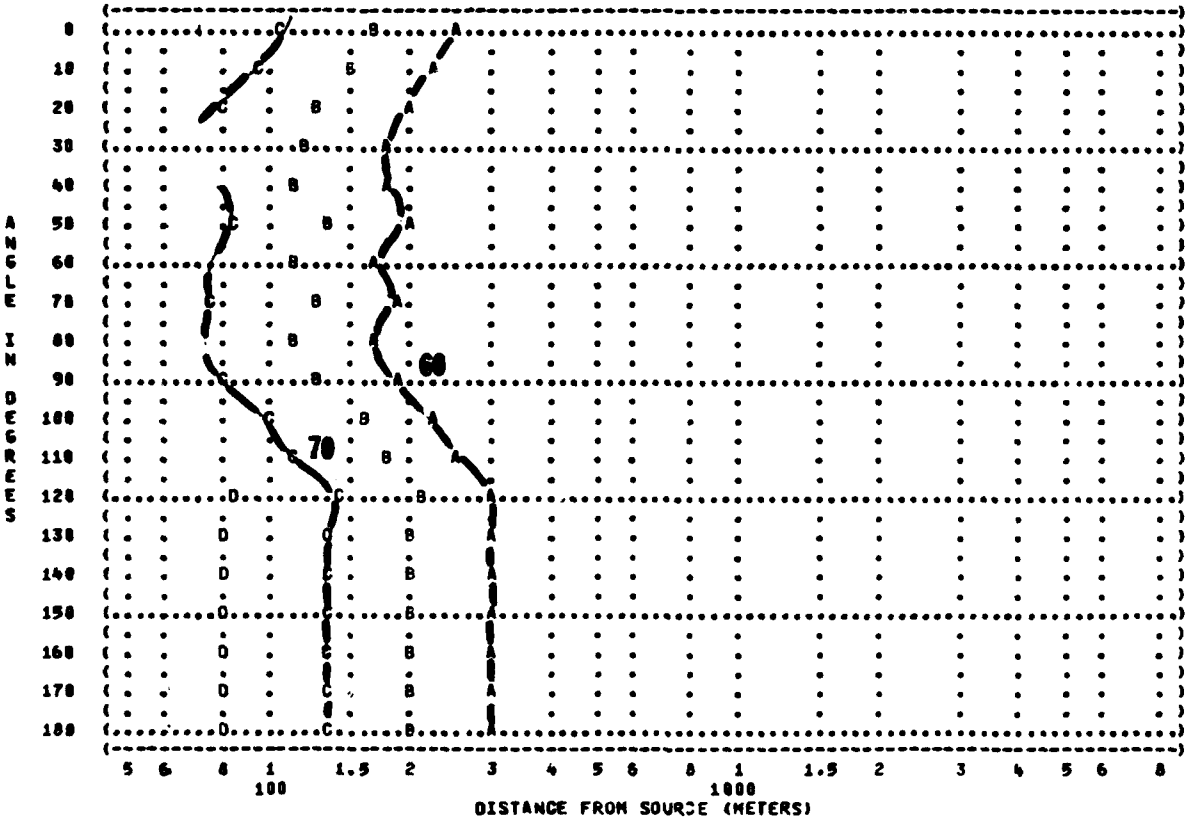


FIGURE: 2.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

OPERATION:
MILITARY POWER (98.6%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 03
26 OCT 81
PAGE 15

POINT	PNDB
A	60
B	65
C	70
D	75
E	80

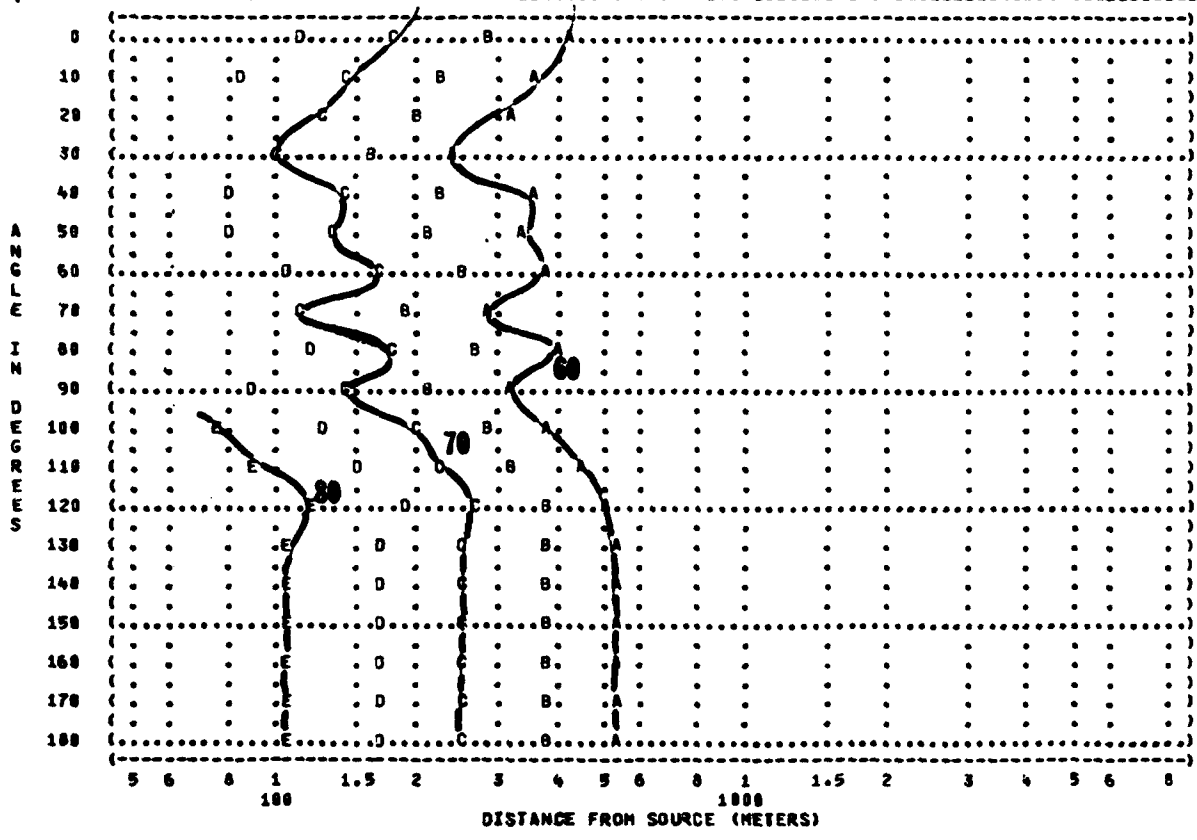


FIGURE: 2.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 04
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95

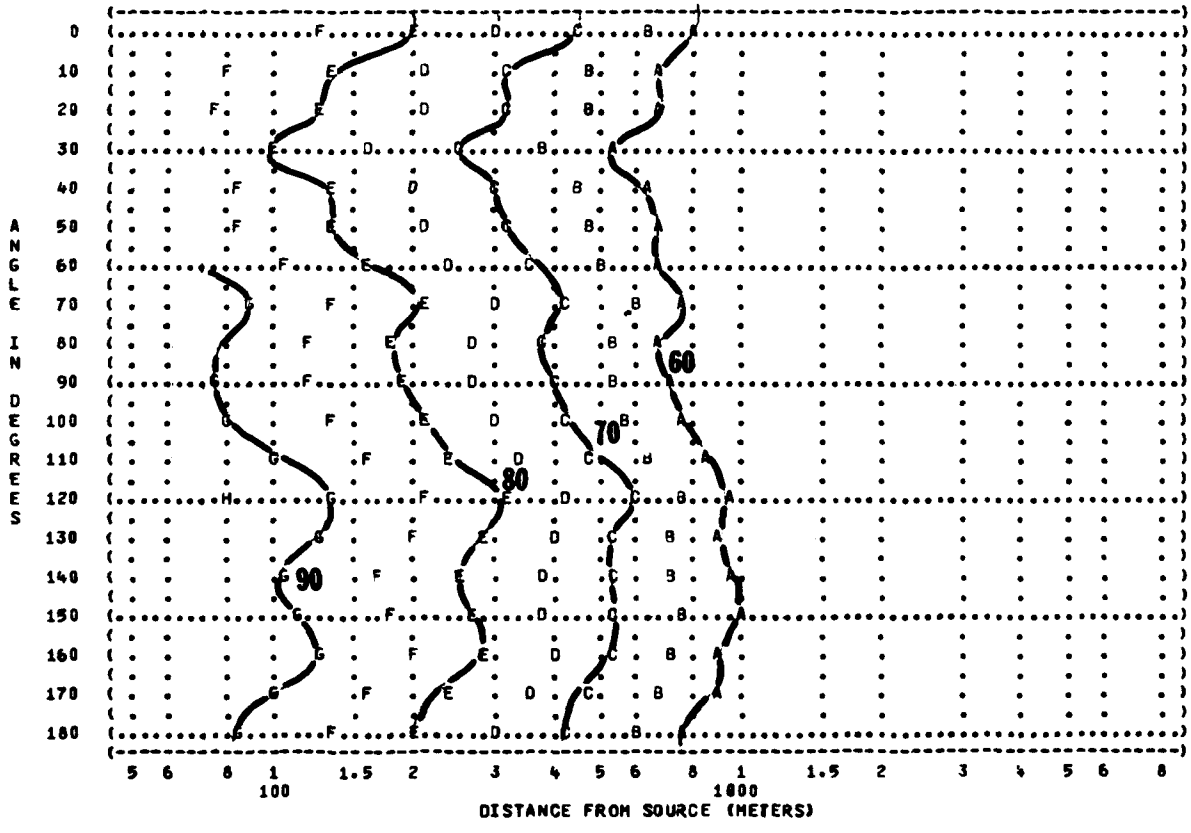


FIGURE 2.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 01
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

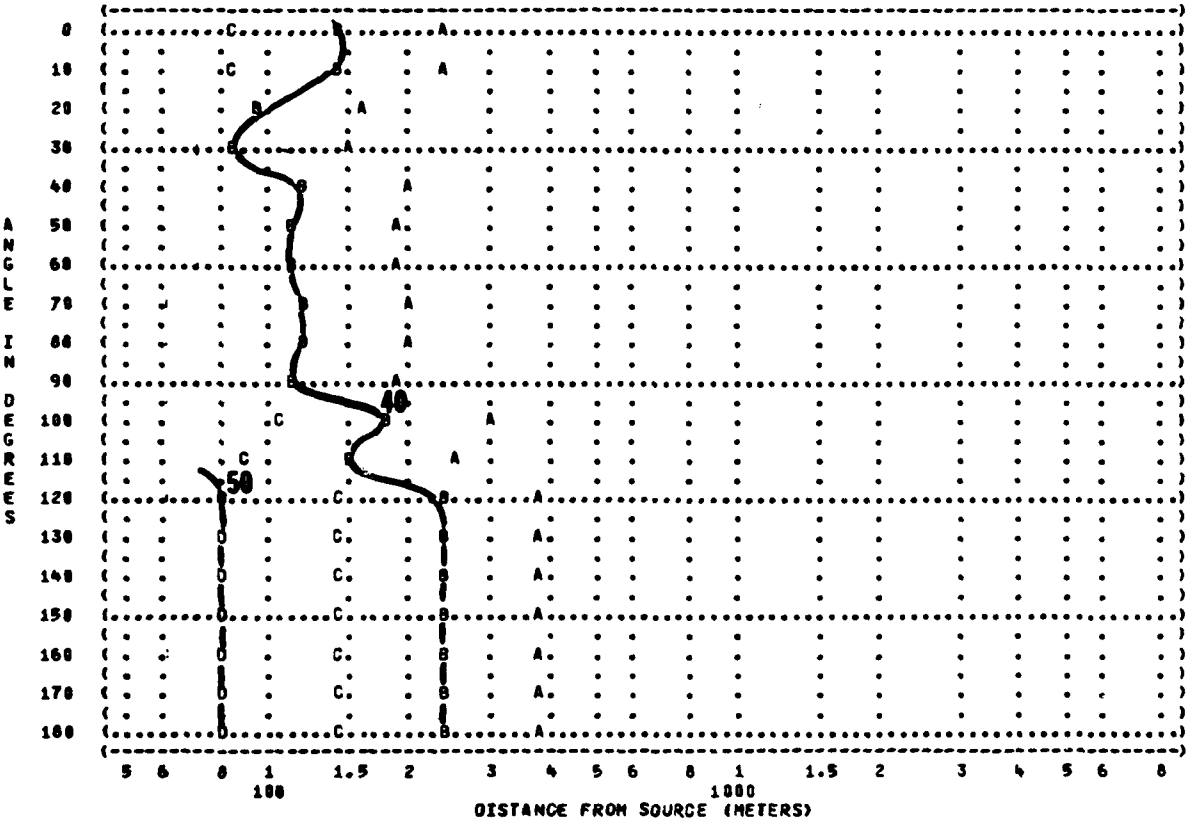


FIGURE: 26 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 02
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

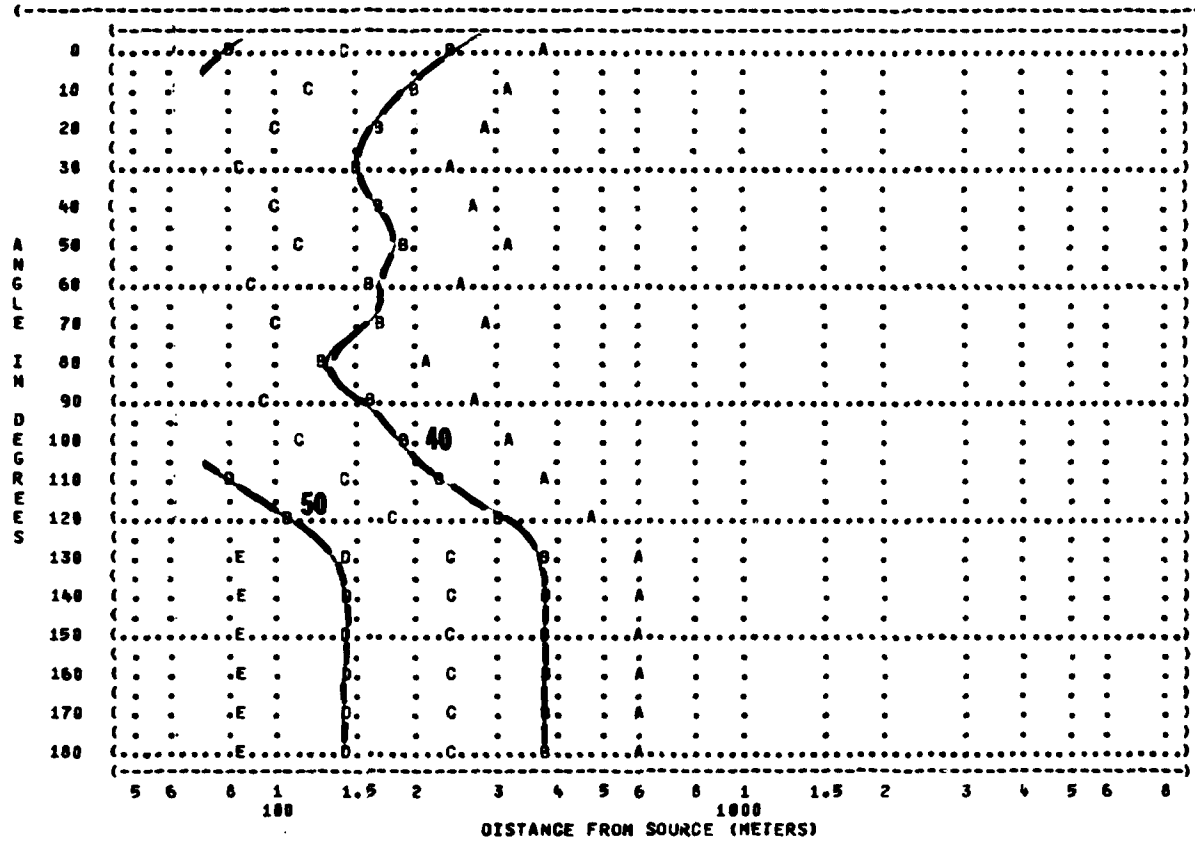


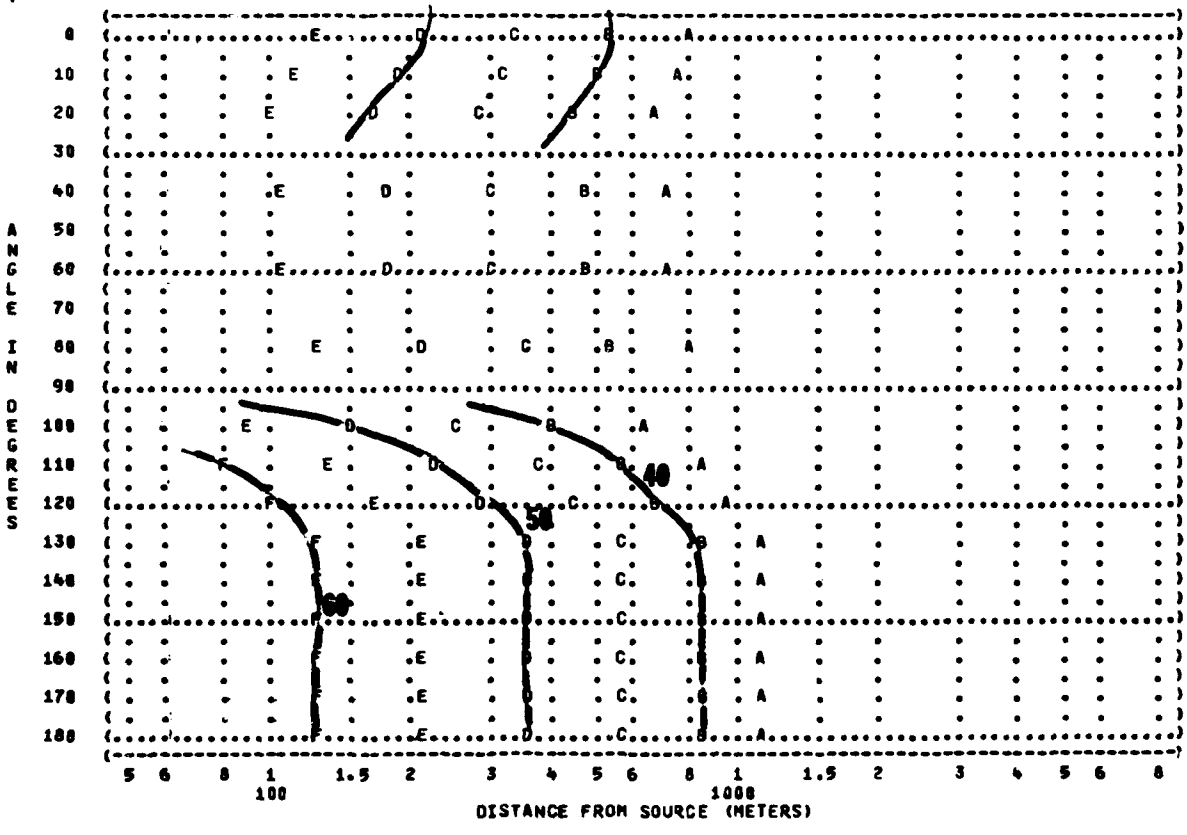
FIGURE: PREFERRED SPEECH INTERFERENCE LEVEL (PSIL)
2.6 EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

OPERATION:
MILITARY POWER (98.6%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .768 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-881
RUN 03
26 OCT 81
PAGE 17



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

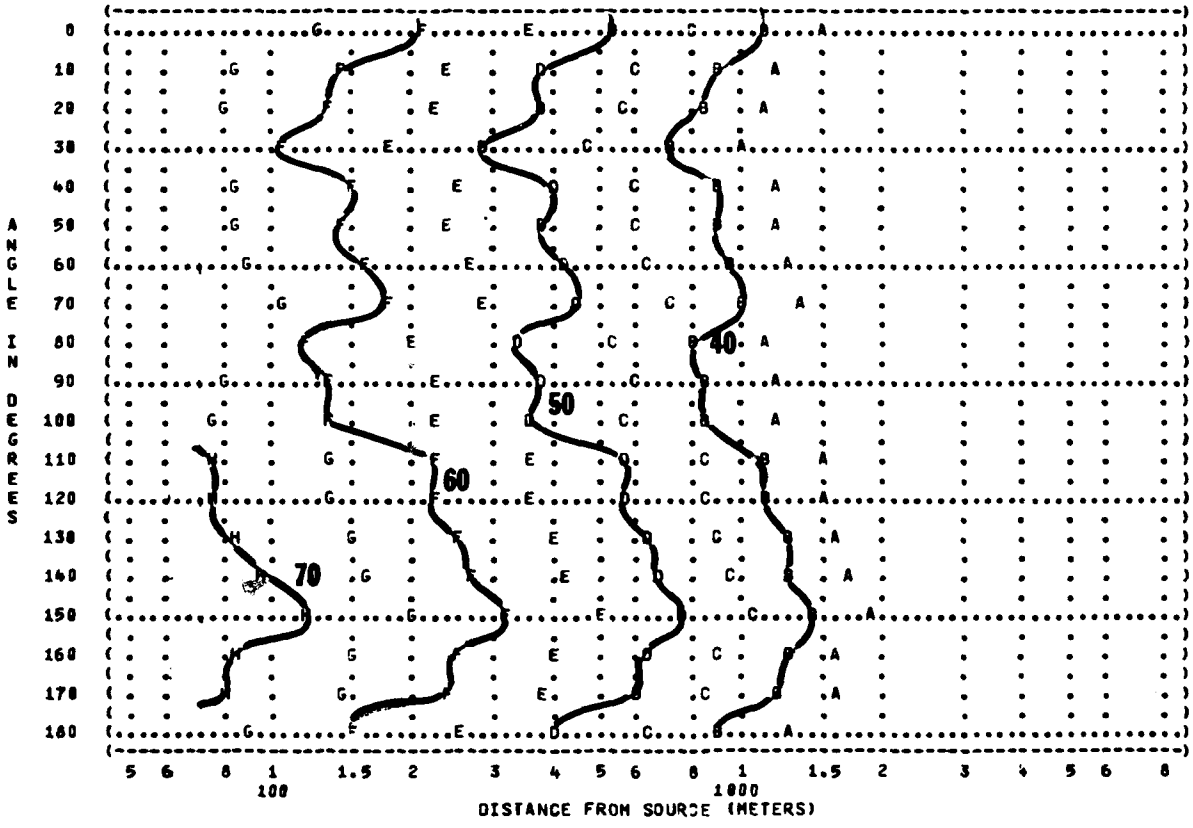
FIGURE 2.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 04
26 OCT 81
PAGE 17



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE: 2.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 01
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

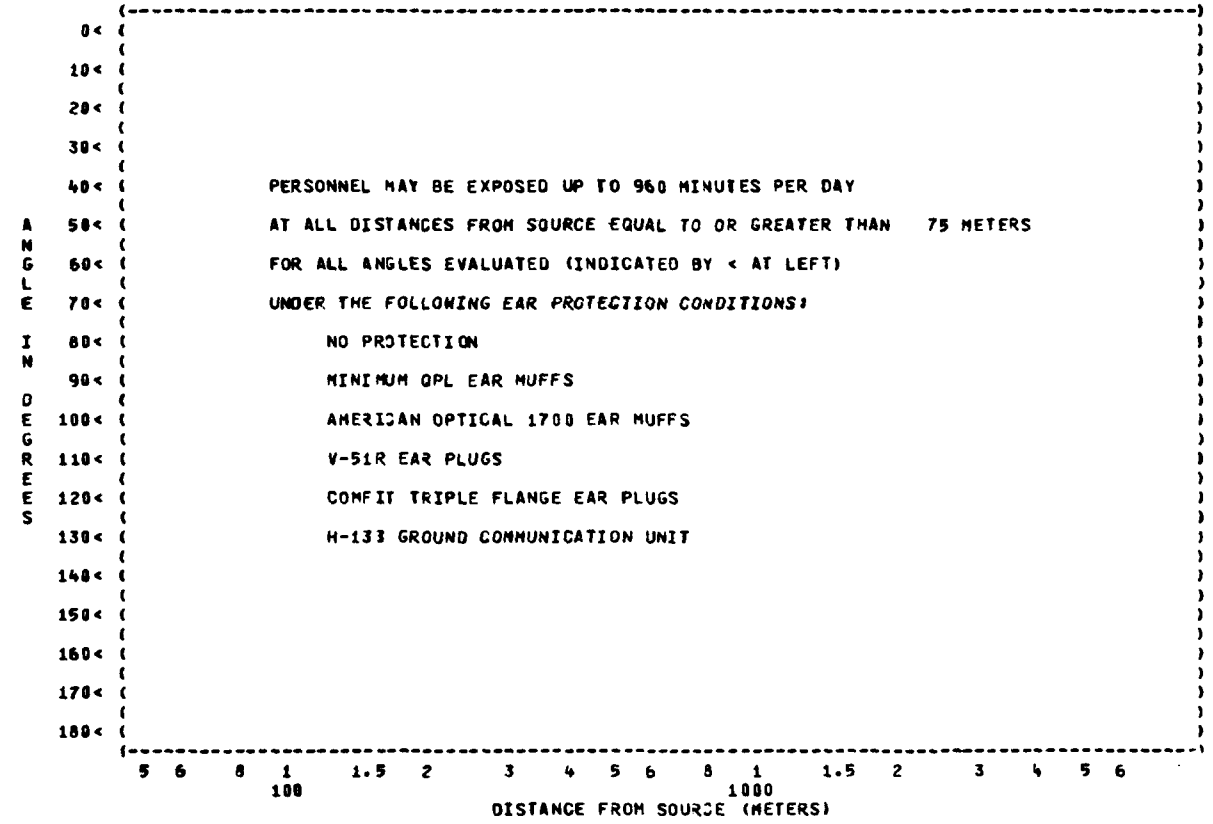


FIGURE: 2.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-881
RUN 02
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

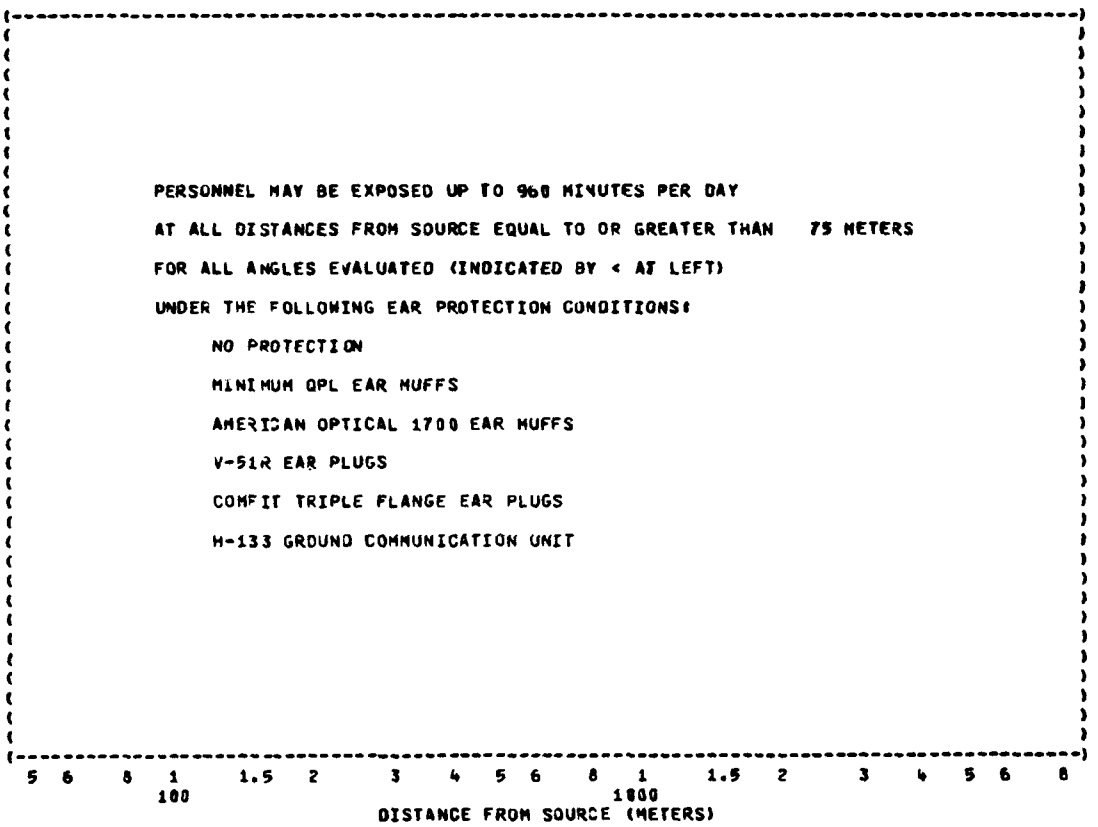


FIGURE: 2.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 03
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT: F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

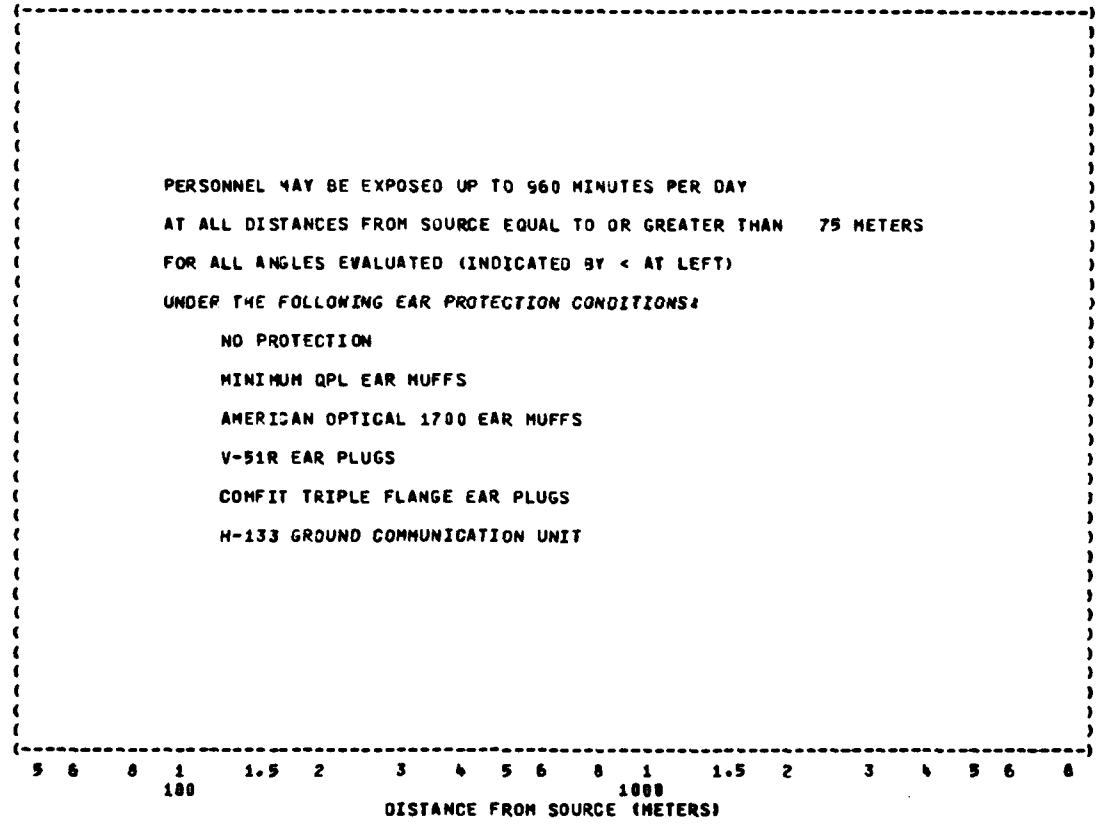


FIGURE: 2.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST 3F-702-081
RUN 04
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT: F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

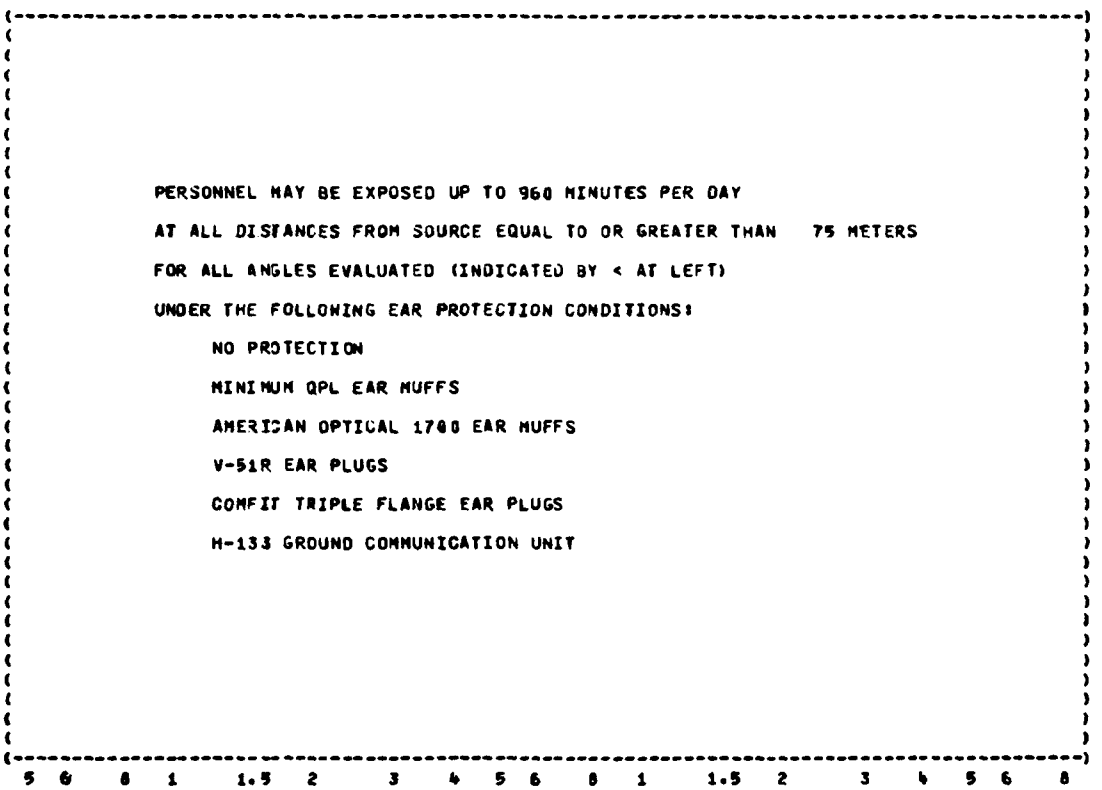


FIGURE: 2.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 01
26 OCT 81
PAGE 18

POINT	DB
A	35
B	+0
C	45
D	50
E	55
F	60
G	65
H	70
I	75

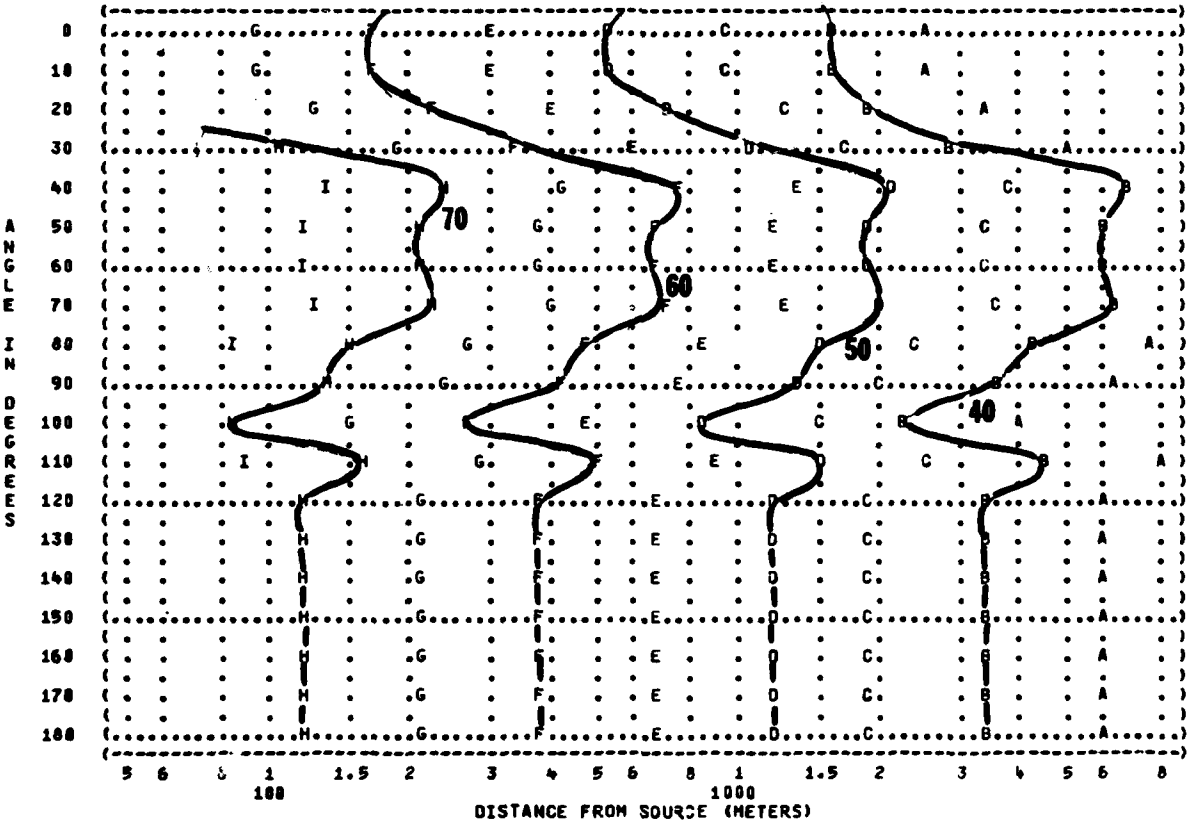


FIGURE: 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 01
26 OCT 81
PAGE 19

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

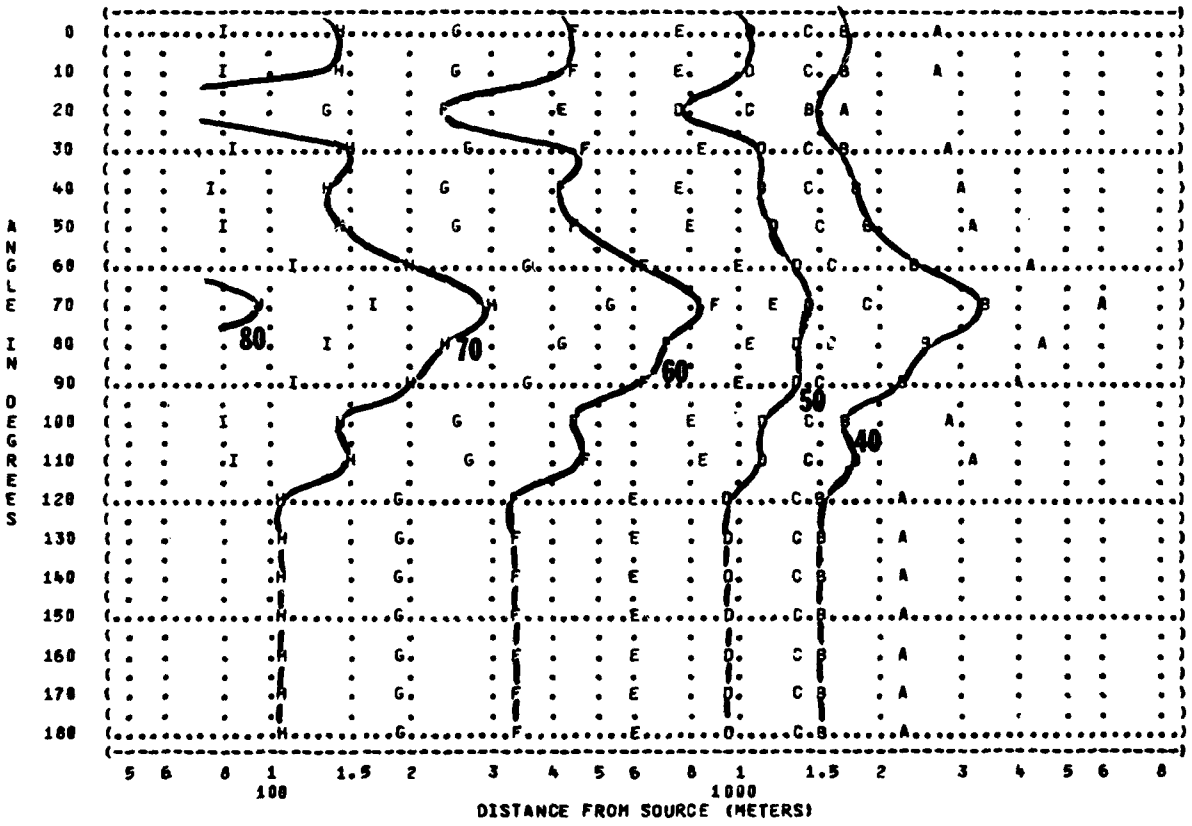


FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 9F-702-081
RUN 01
26 OCT 81
PAGE 28

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

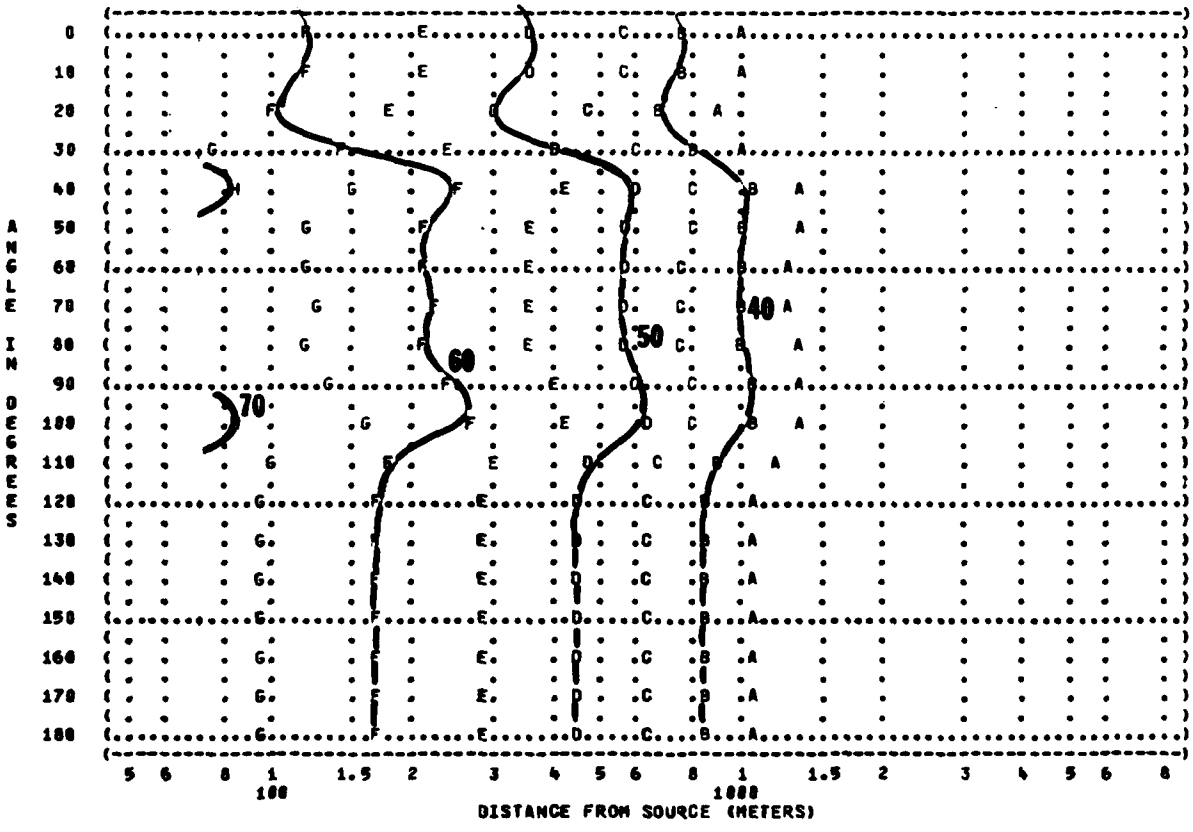


FIGURE: 2.8

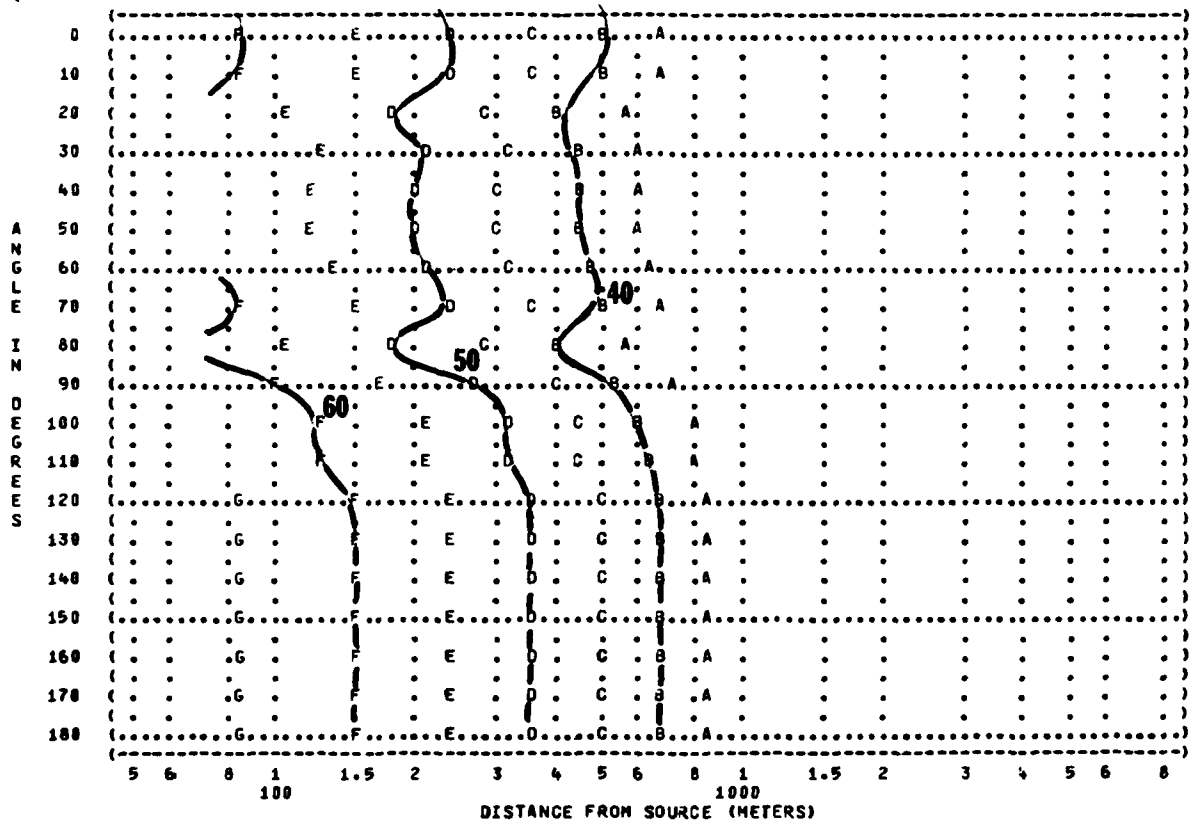
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 01
26 OCT 81
PAGE 21



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

FIGURE: 2.8

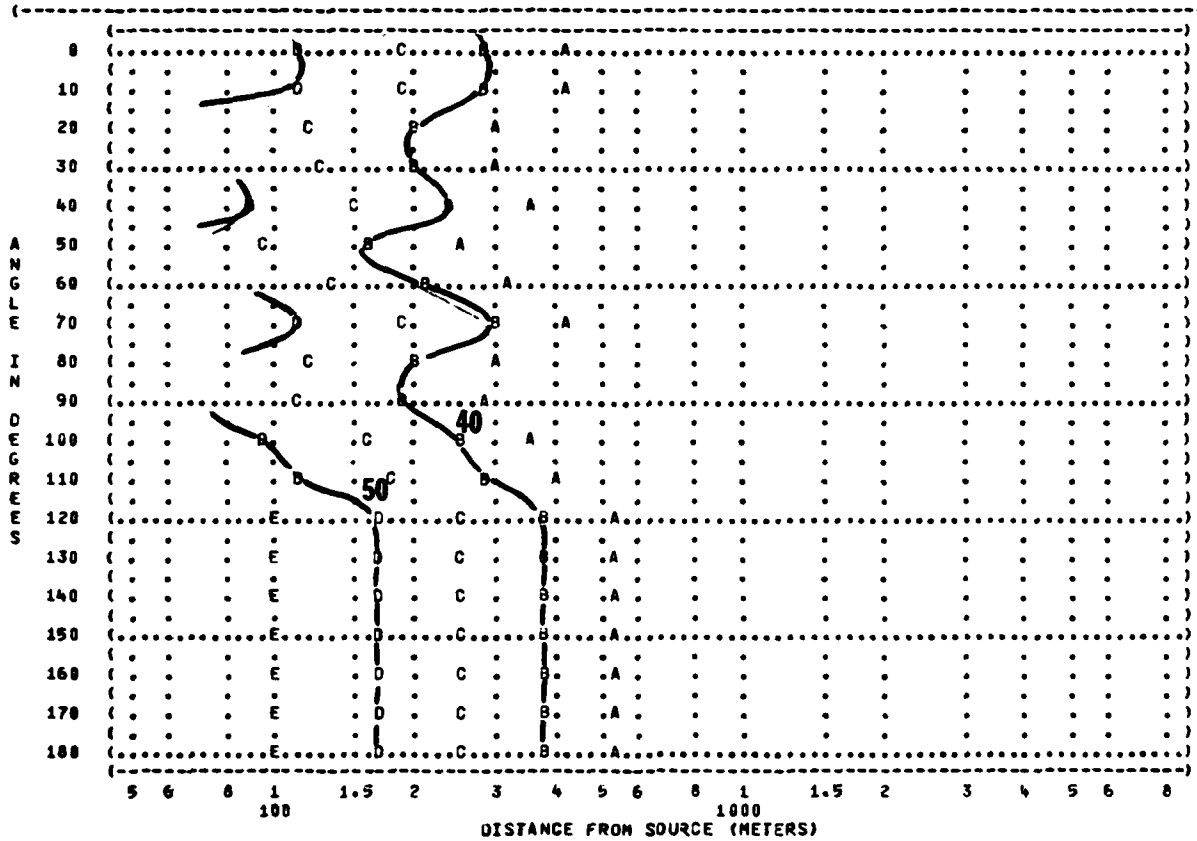
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (D3)
250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-732-001
RUN 01
26 OCT 81
PAGE 22

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DB
A	35
B	40
C	45
D	50
E	55

FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 01
26 OCT 81
PAGE 23

POINT	DB
A	35
B	40
C	45
D	50

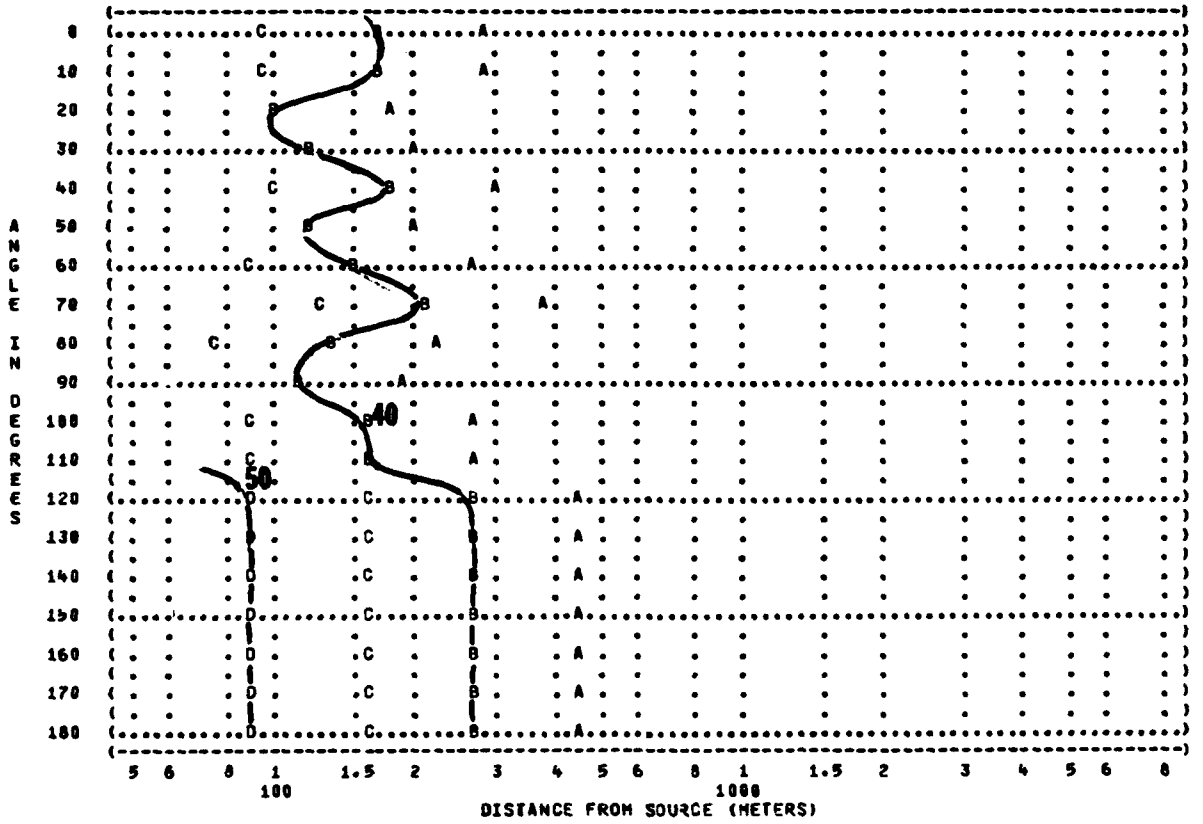


FIGURE: 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 01
26 OCT 81
PAGE 24

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

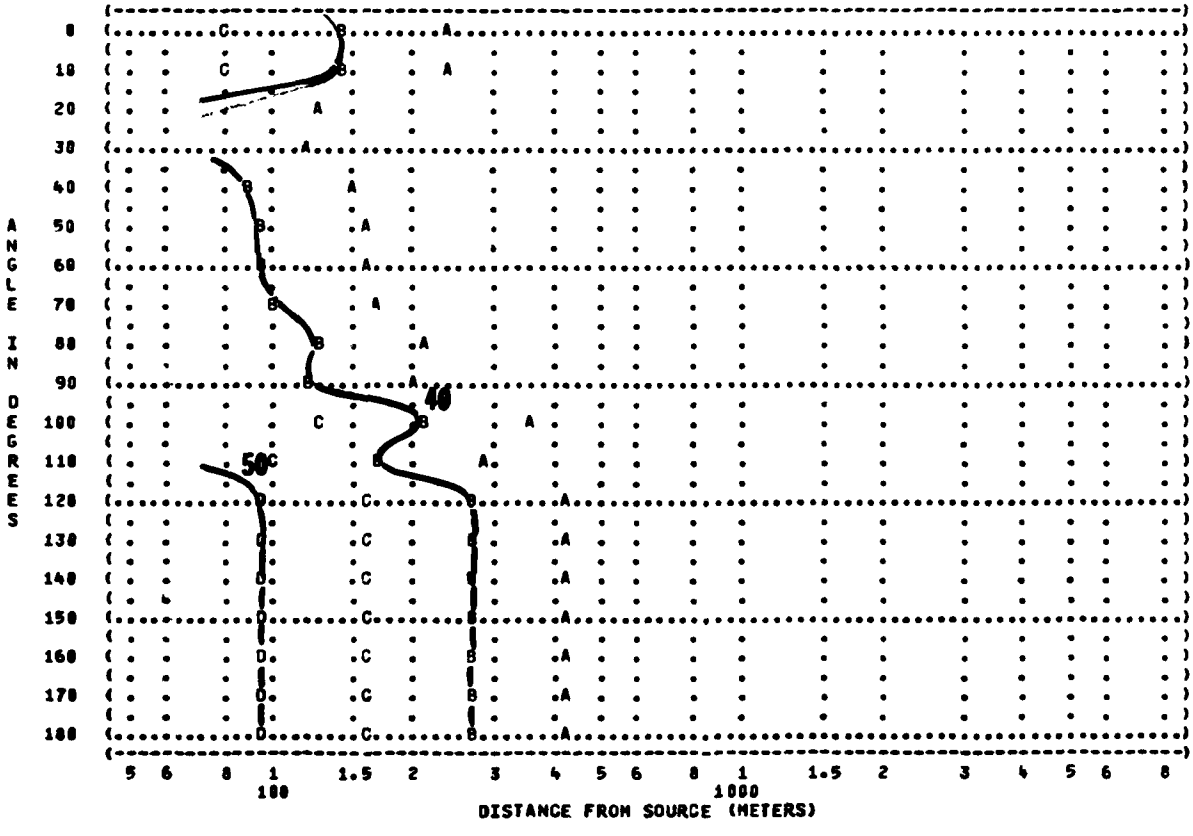


FIGURE: 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 01
26 OCT 81
PAGE 25

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

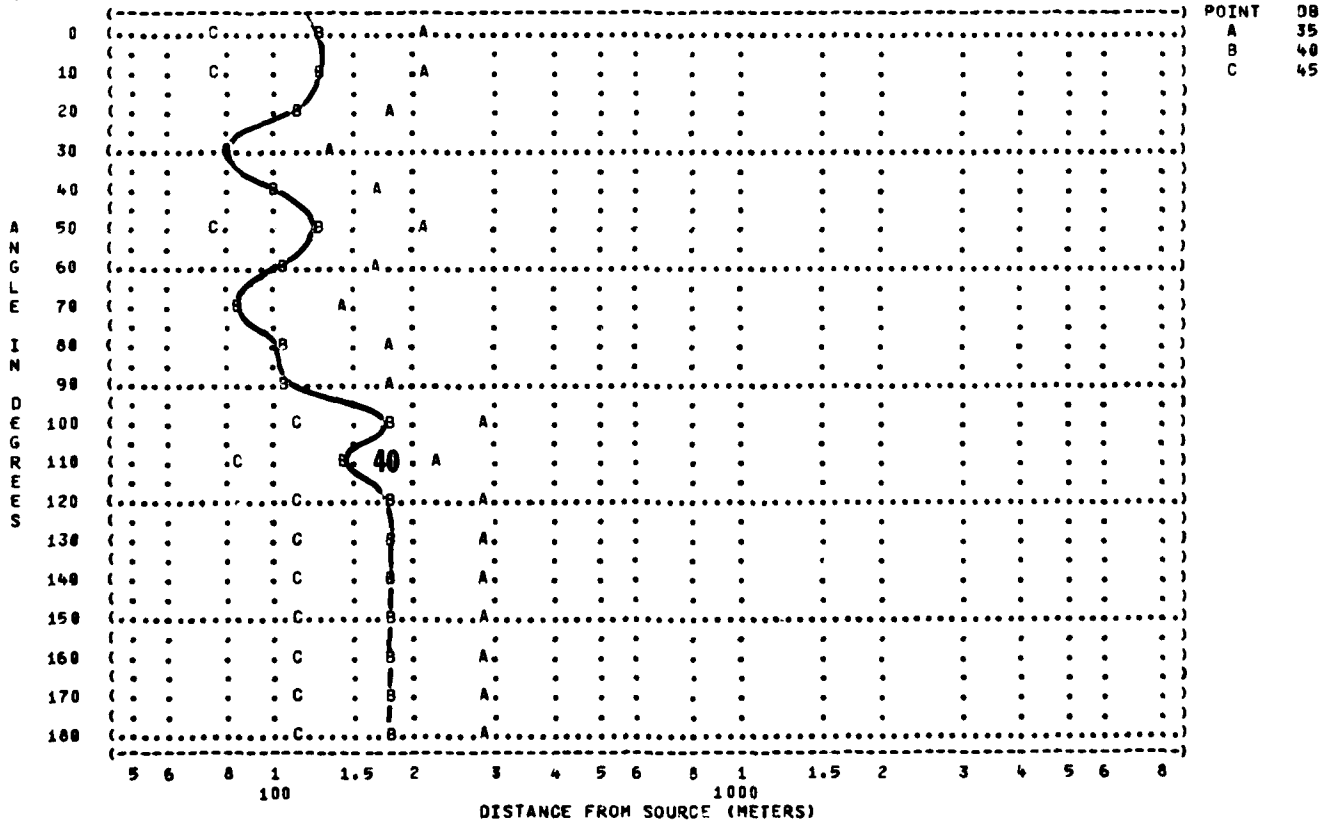


FIGURE: 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: ONEGA 1.4 TEST BF-702-001 RUN 01 26 OCT 81 PAGE 26

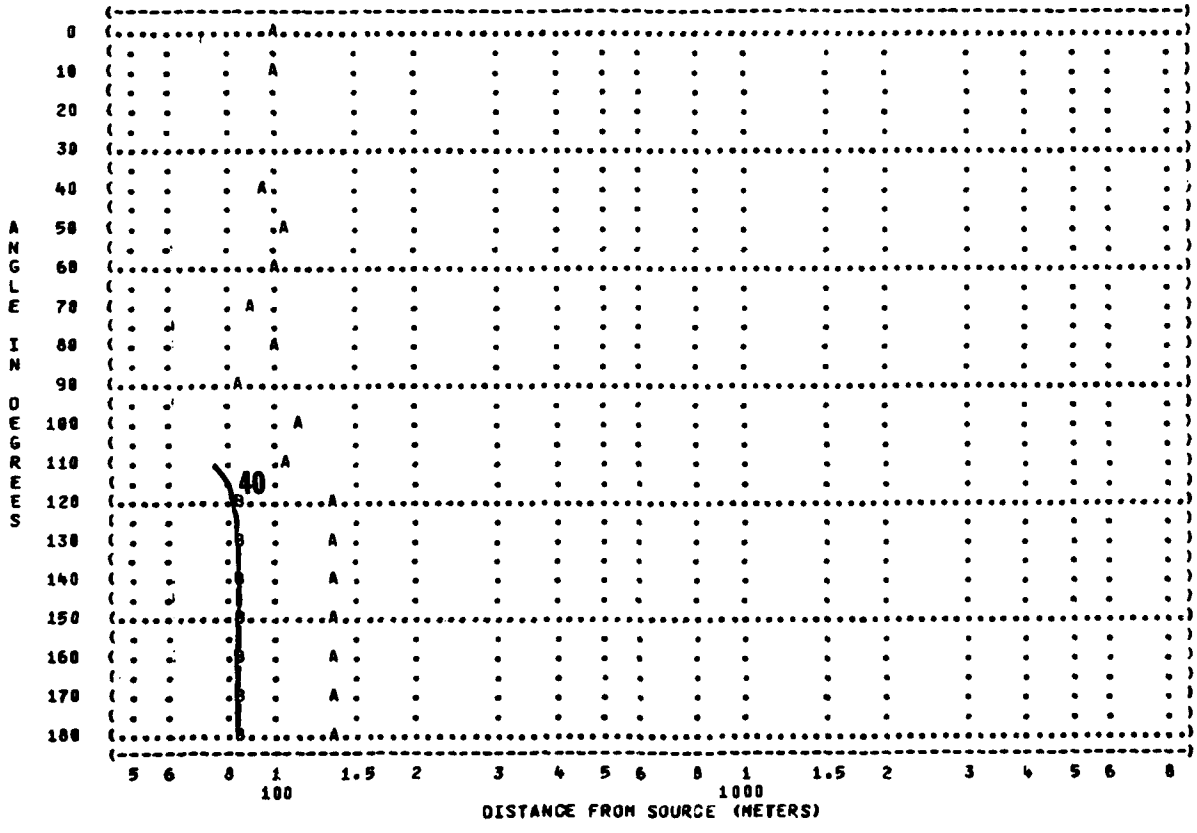


FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-782-881 RUN 01 26 OCT 81 PAGE 27

NOISE SOURCE/SUBJECT: F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT DB
A 35

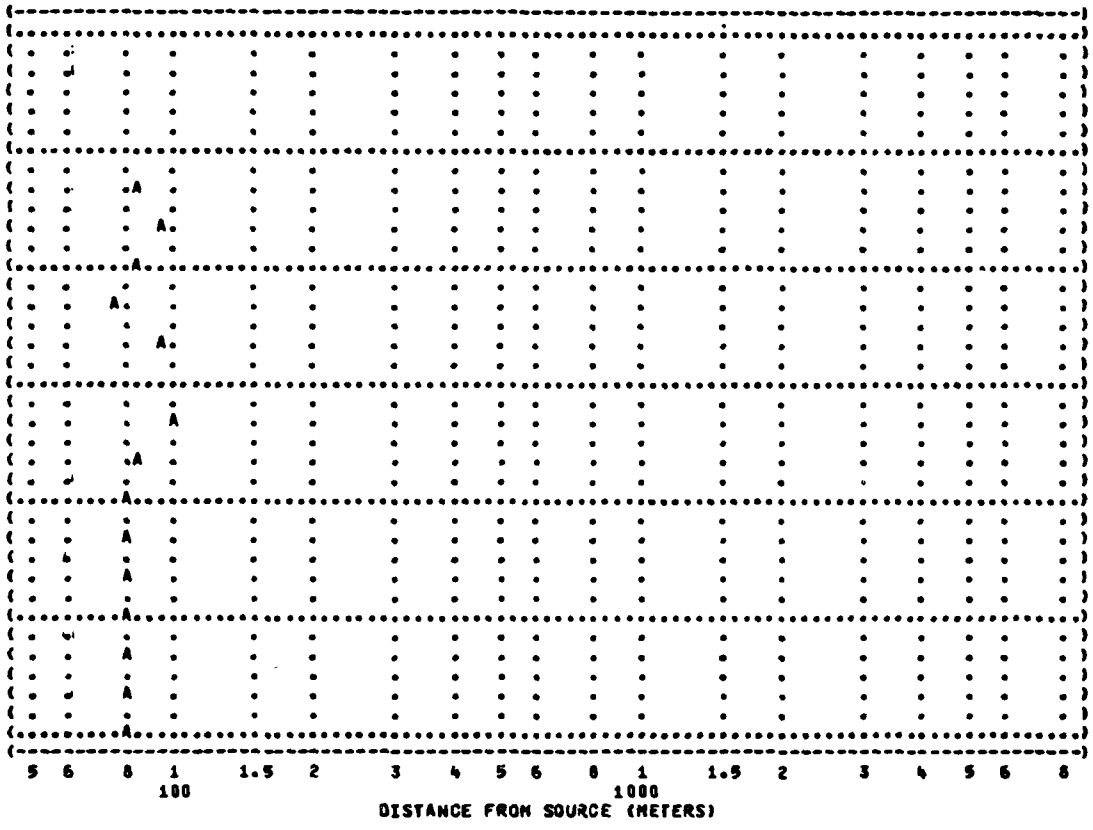


FIGURE 2.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 78 %

IDENTIFICATION: OMEGA 1.4 TEST BF-782-081 RUN 02 26 OCT 81 PAGE 18

POINT	DB
A	40
B	45
C	50
D	55
E	60
F	65
G	70
H	75
I	80
J	85

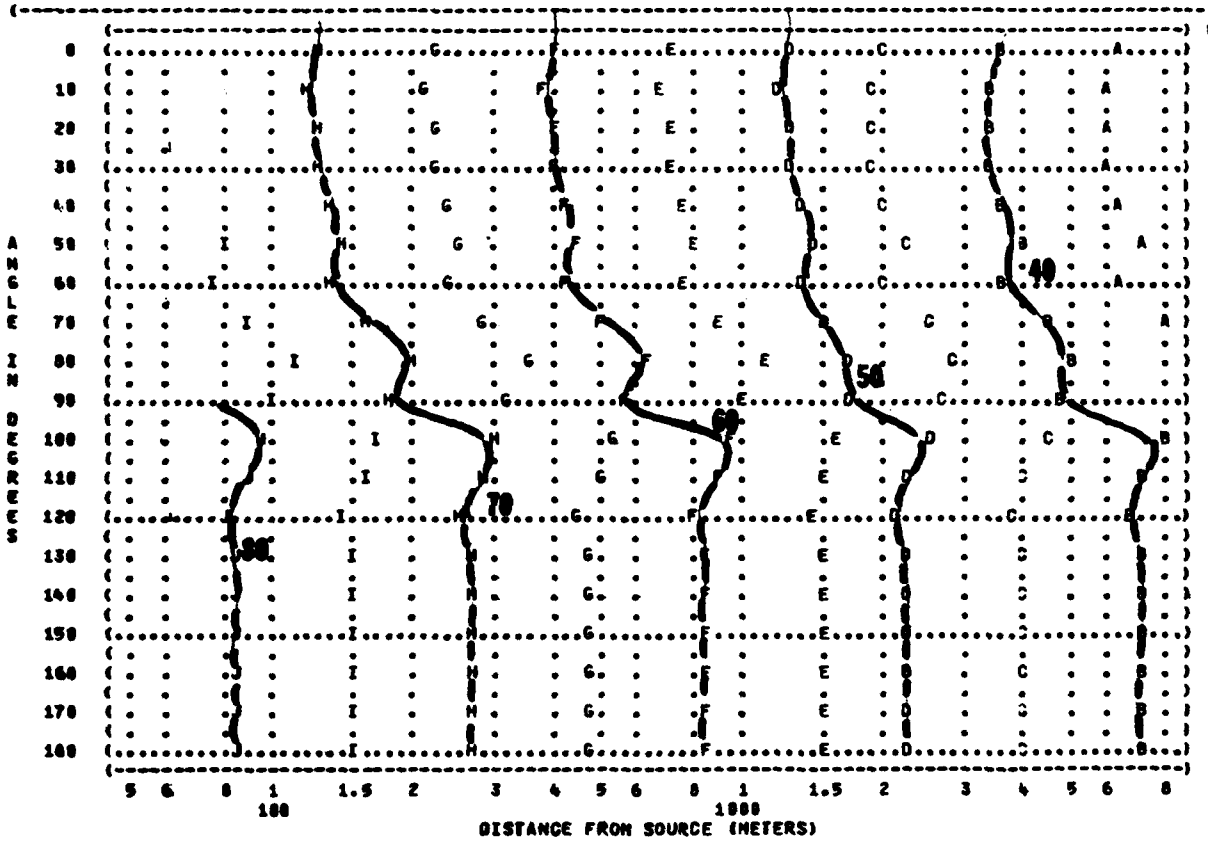


FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-702-081 RUN 02 26 OCT 81 PAGE 19

NOISE SOURCE/SUBJECT: F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

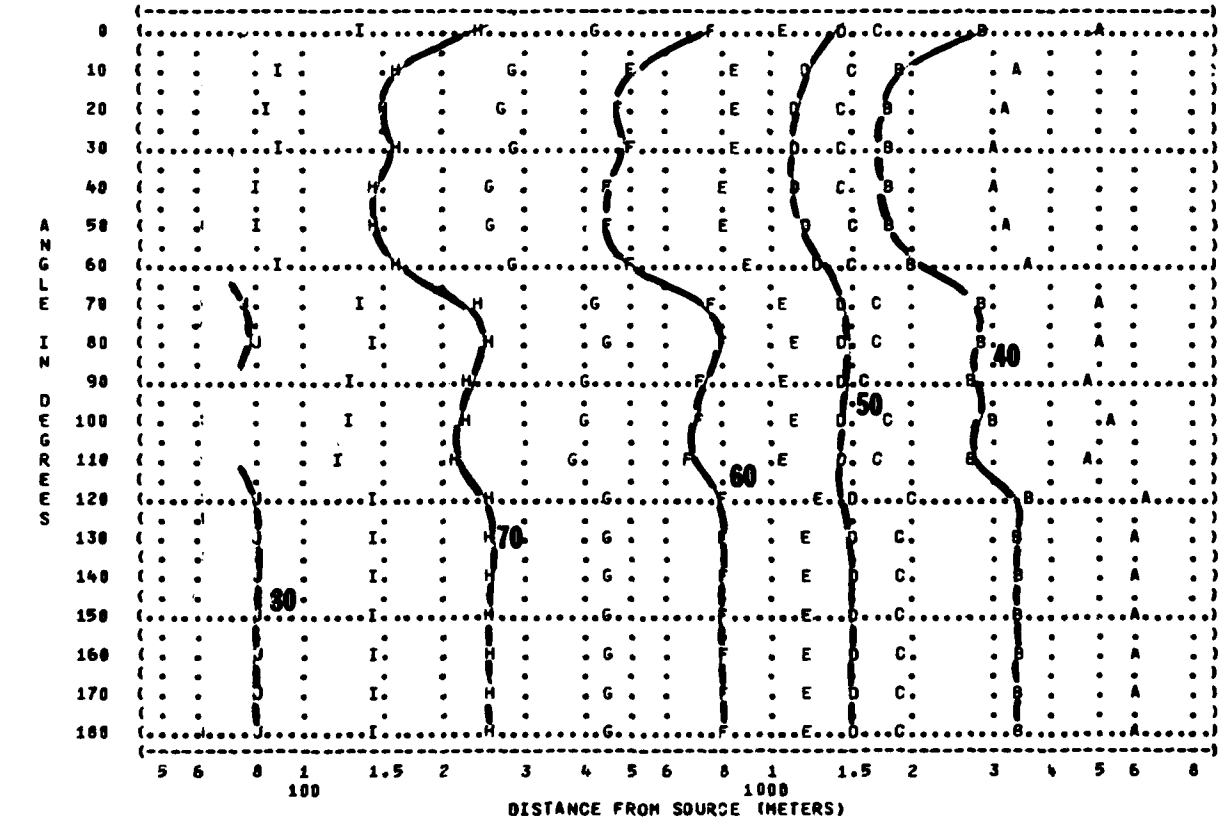


FIGURE: 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-702-001 RUN 02 26 OCT 81 PAGE 20

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

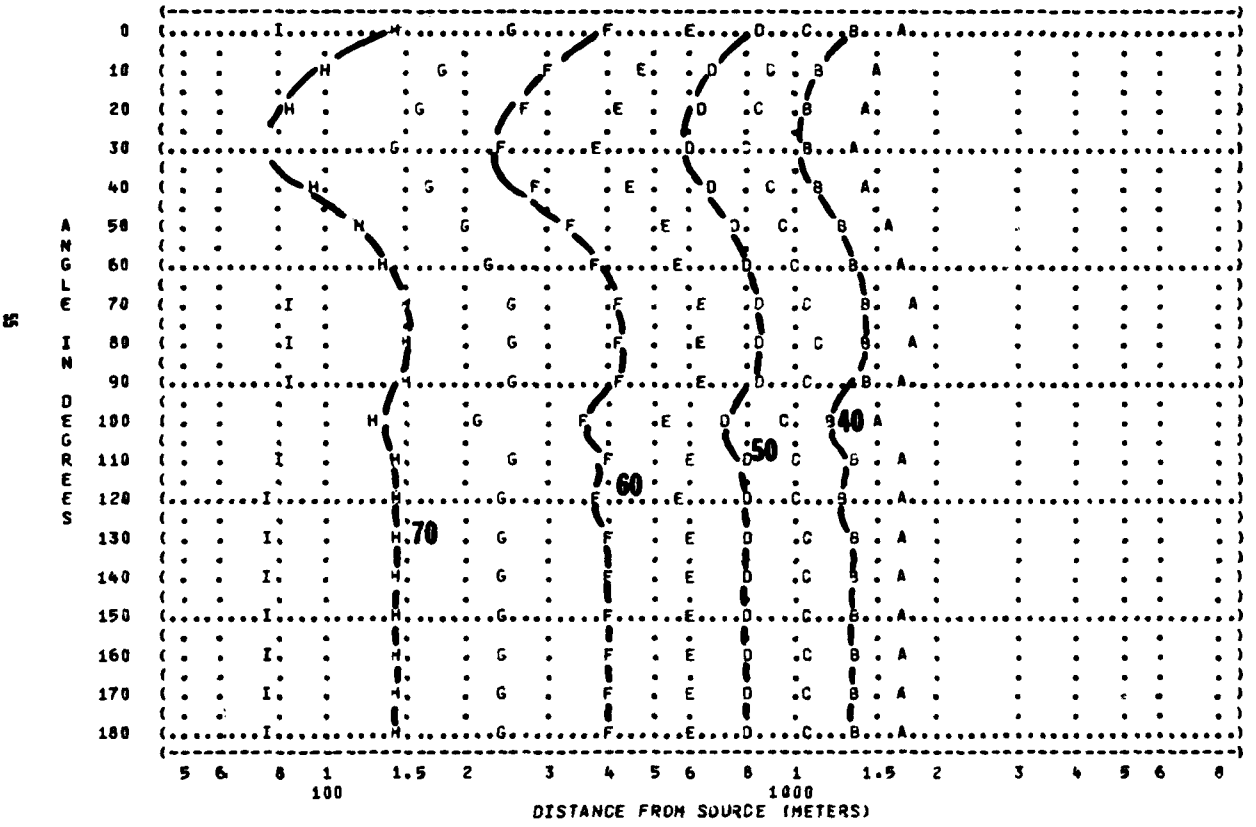


FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-001
RUN 02
26 OCT 81
PAGE 21

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

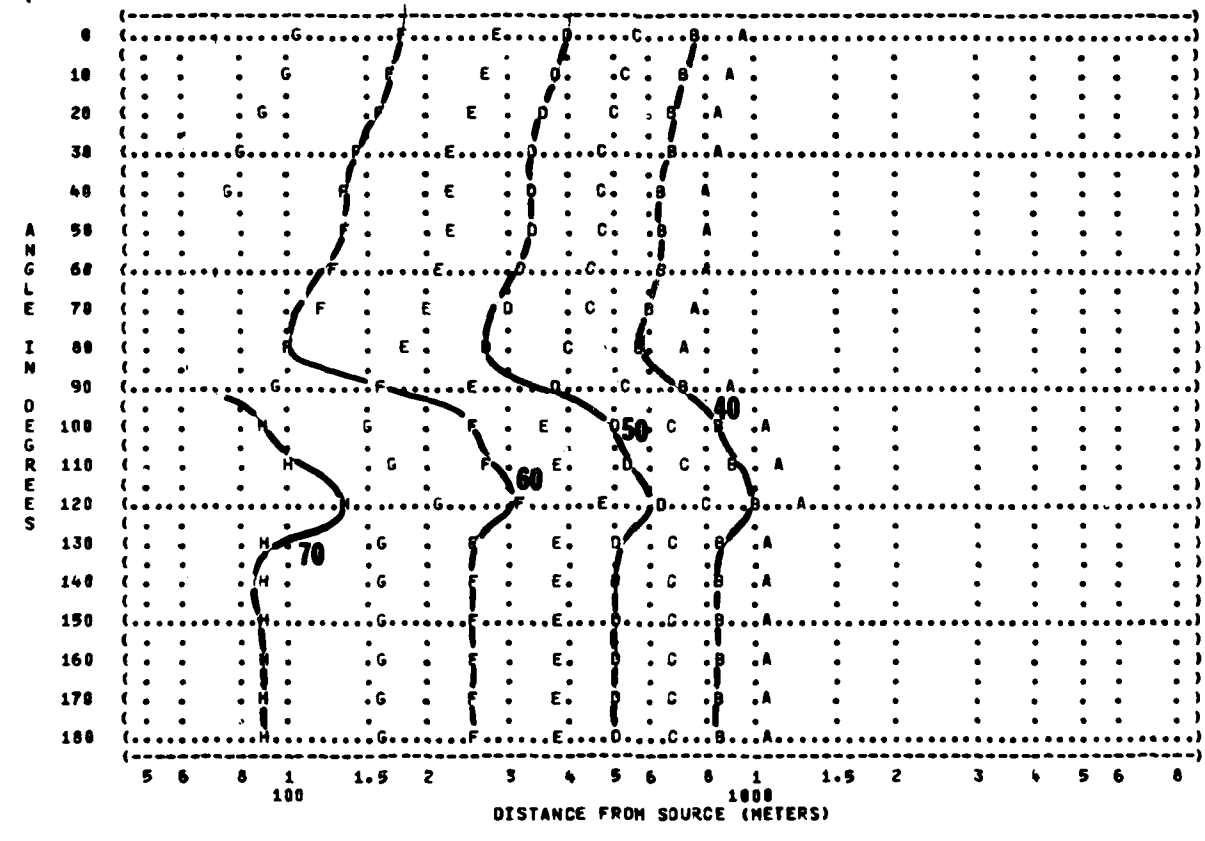


FIGURE: 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 02
26 OCT 81
PAGE 22

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

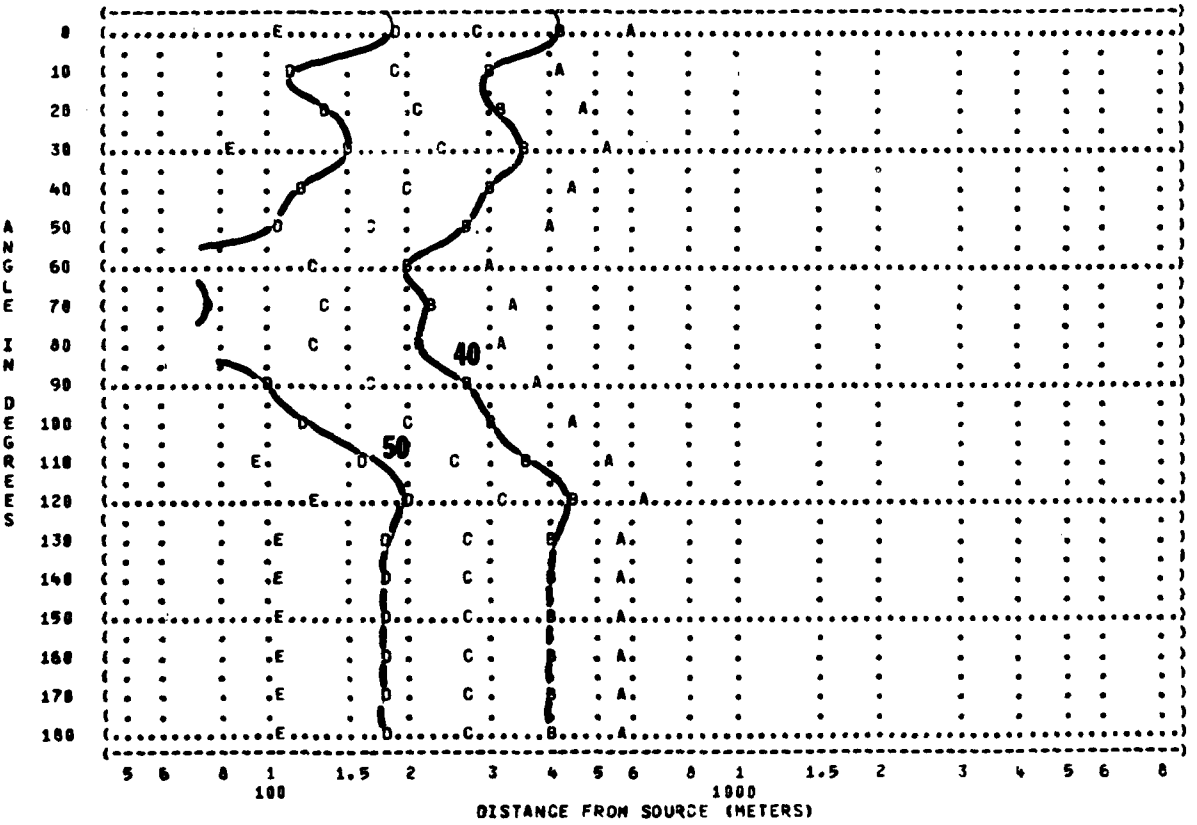


FIGURE: 2.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 02
26 OCT 81
PAGE 23

POINT	DB
A	35
B	40
C	45
D	50
E	55

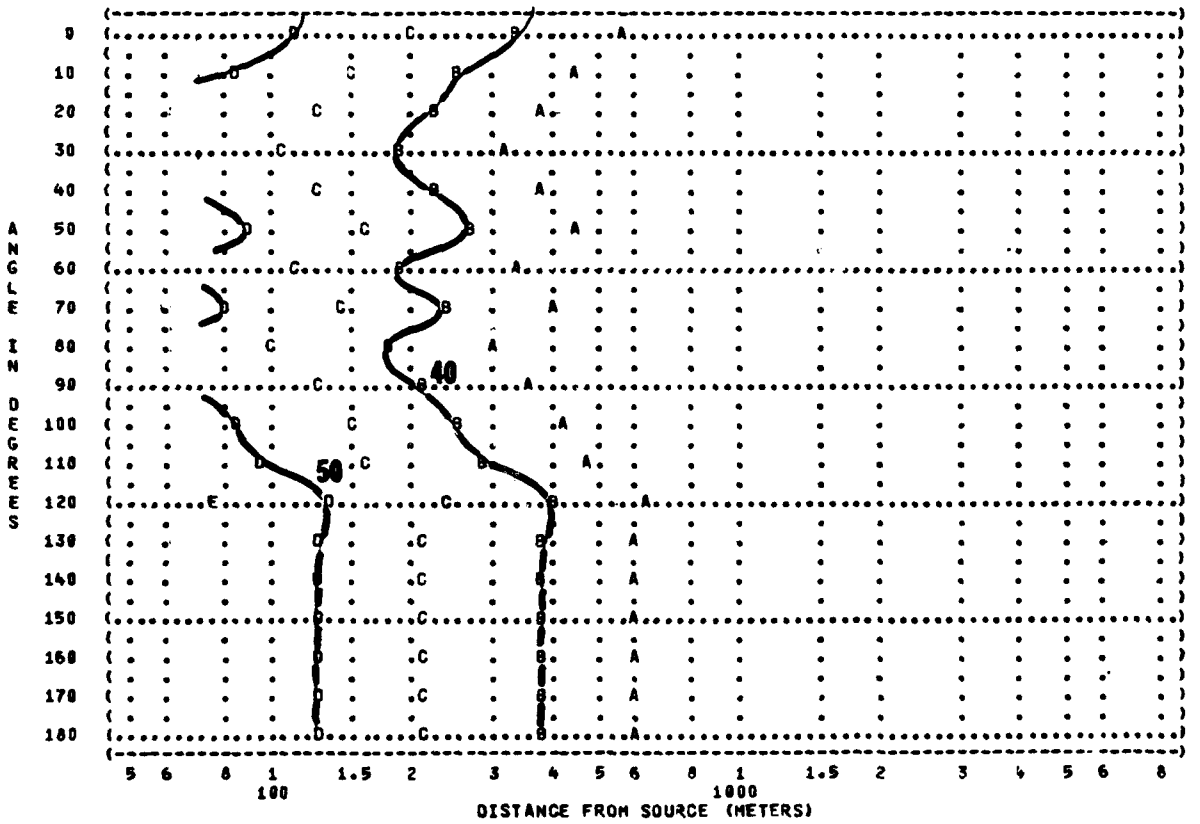


FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-702-001 RUN 02 26 OCT 81 PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55

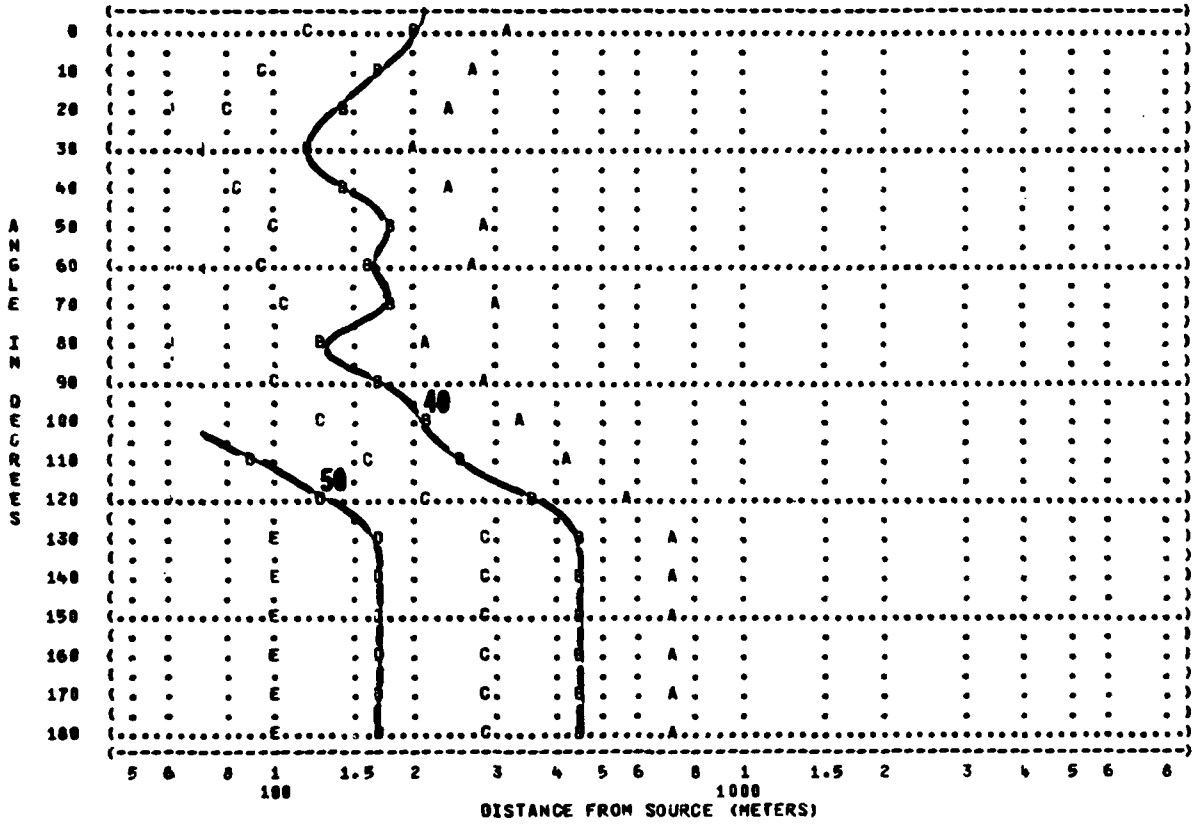
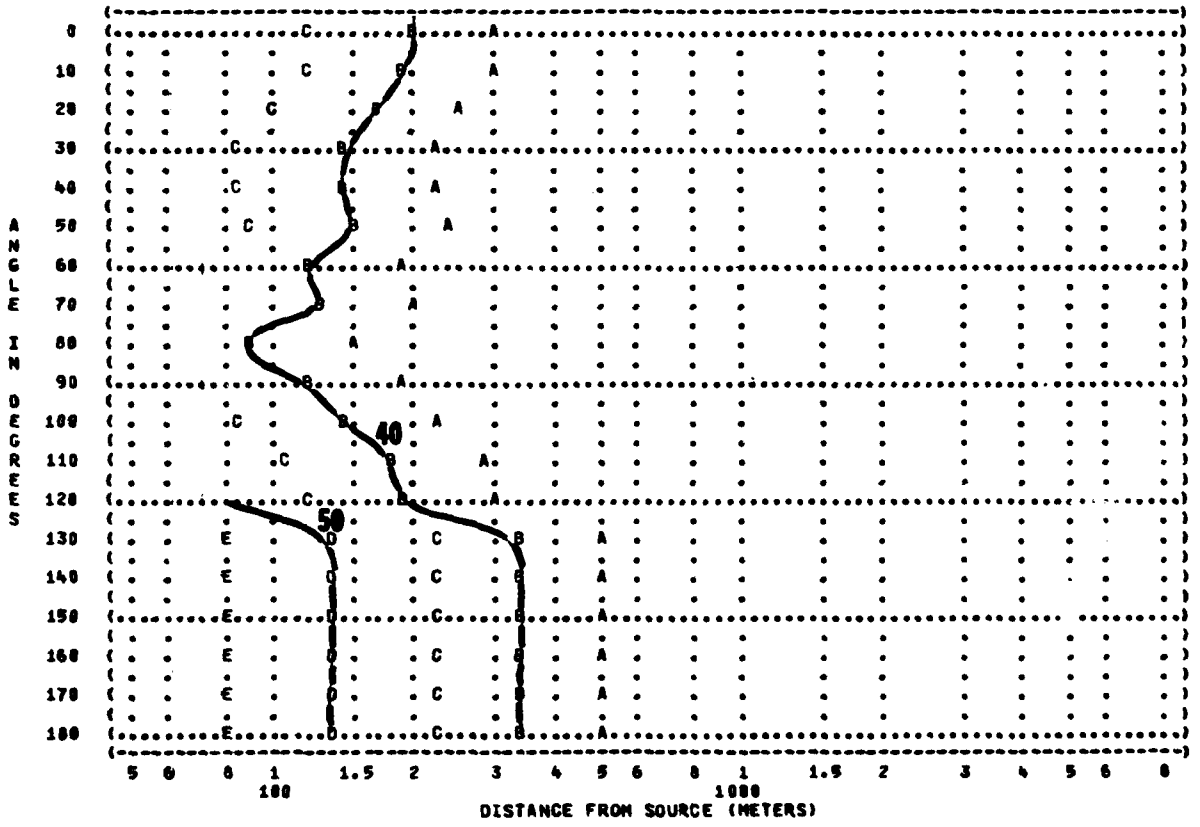


FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:	IDENTIFICATION:
F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE	85% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %	ONEGA 1.4 TEST BF-782-081 RUN 82 26 OCT 81 PAGE 25



POINT	DB
A	35
B	40
C	45
D	50
E	55

FIGURE: 2.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
4000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-881
RUN 02
26 OCT 81
PAGE 26

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENG. AF
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	48
C	45

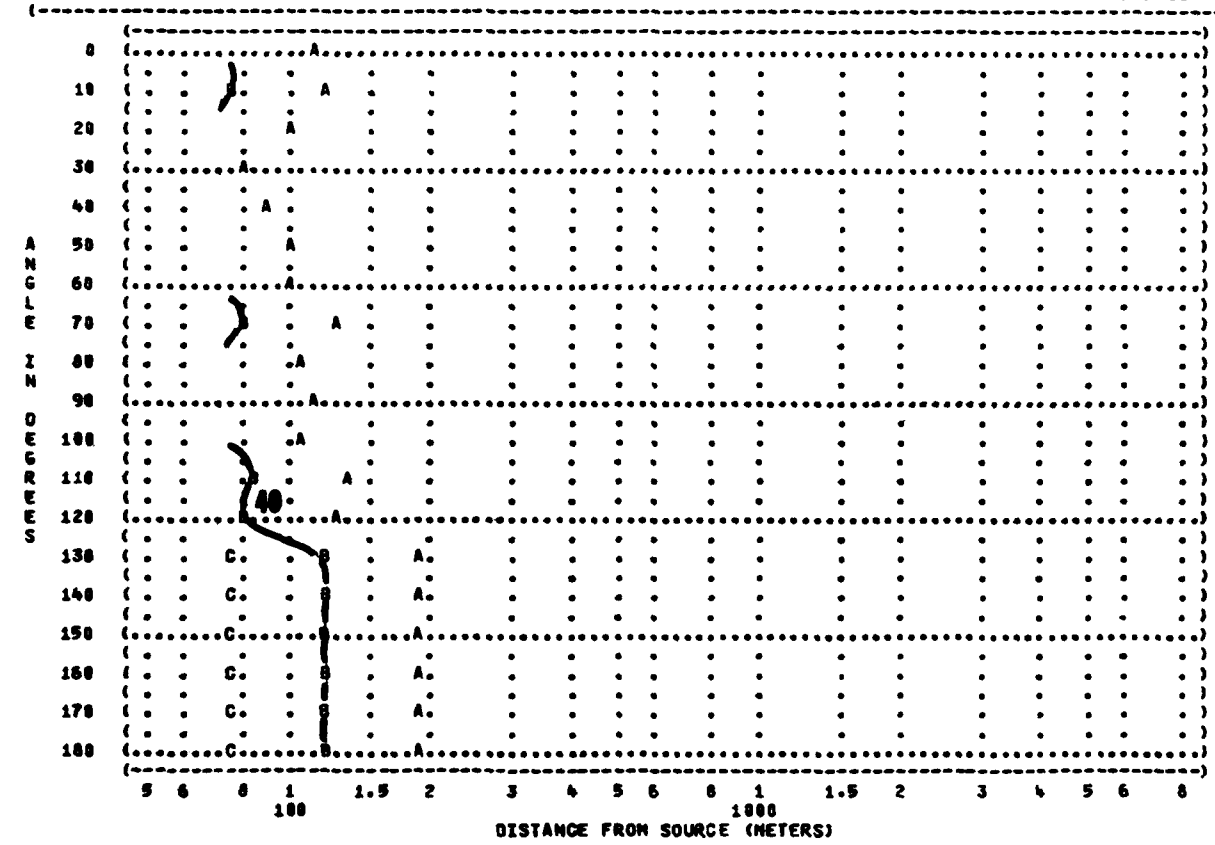


FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:
F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE	85% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-881
RUN 02
26 OCT 81
PAGE 27

POINT	DB
A	35

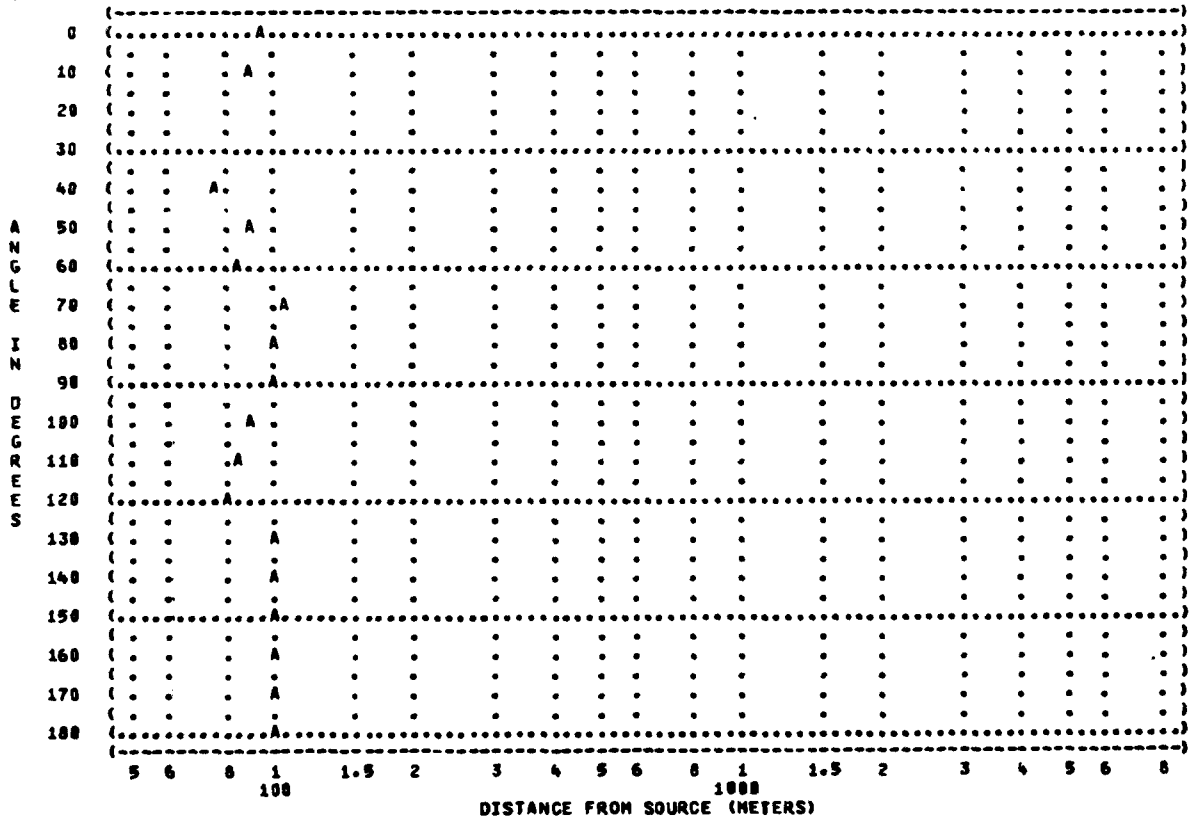


FIGURE: 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 03
26 OCT 81
PAGE 18

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90

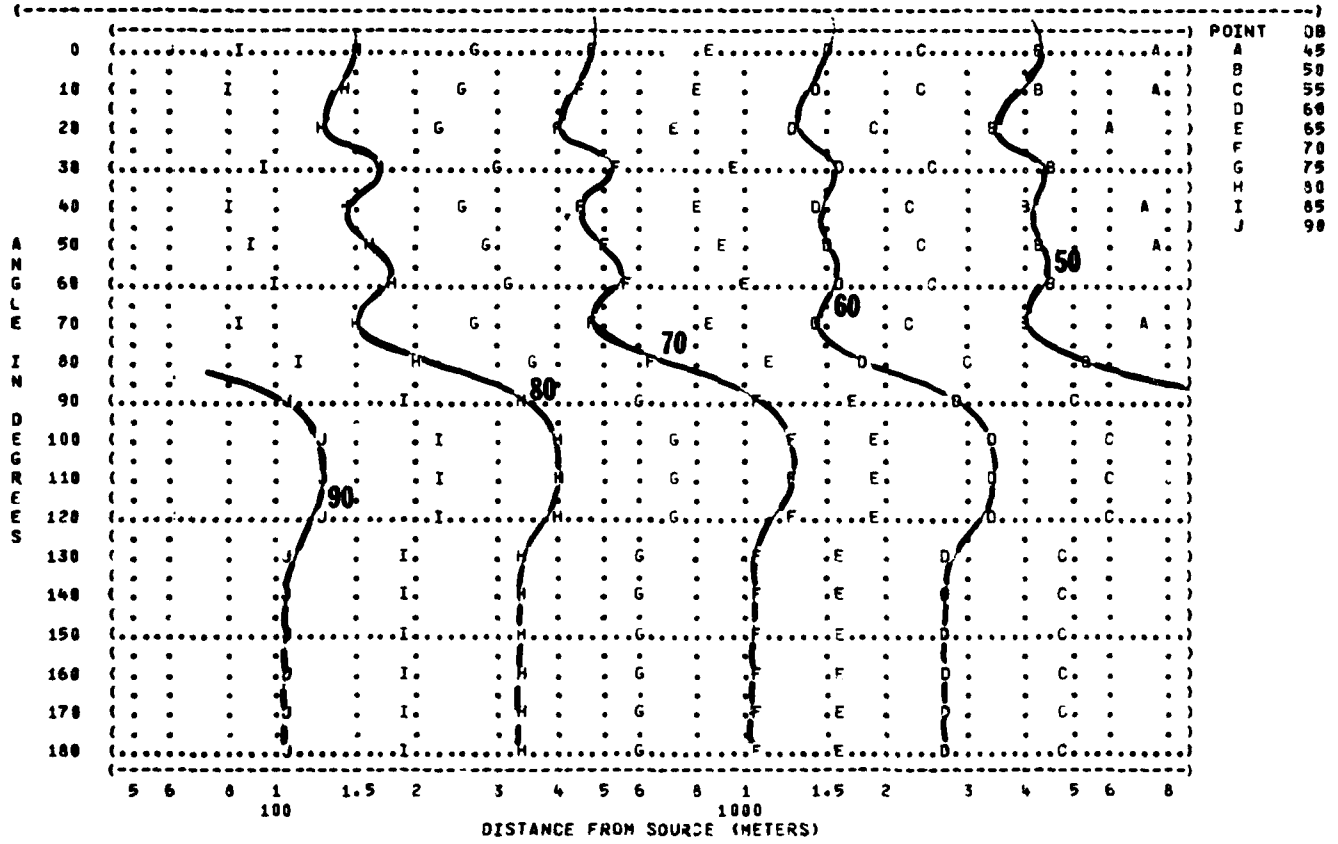


FIGURE: 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-881
RUN 03
26 OCT 81
PAGE 19

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

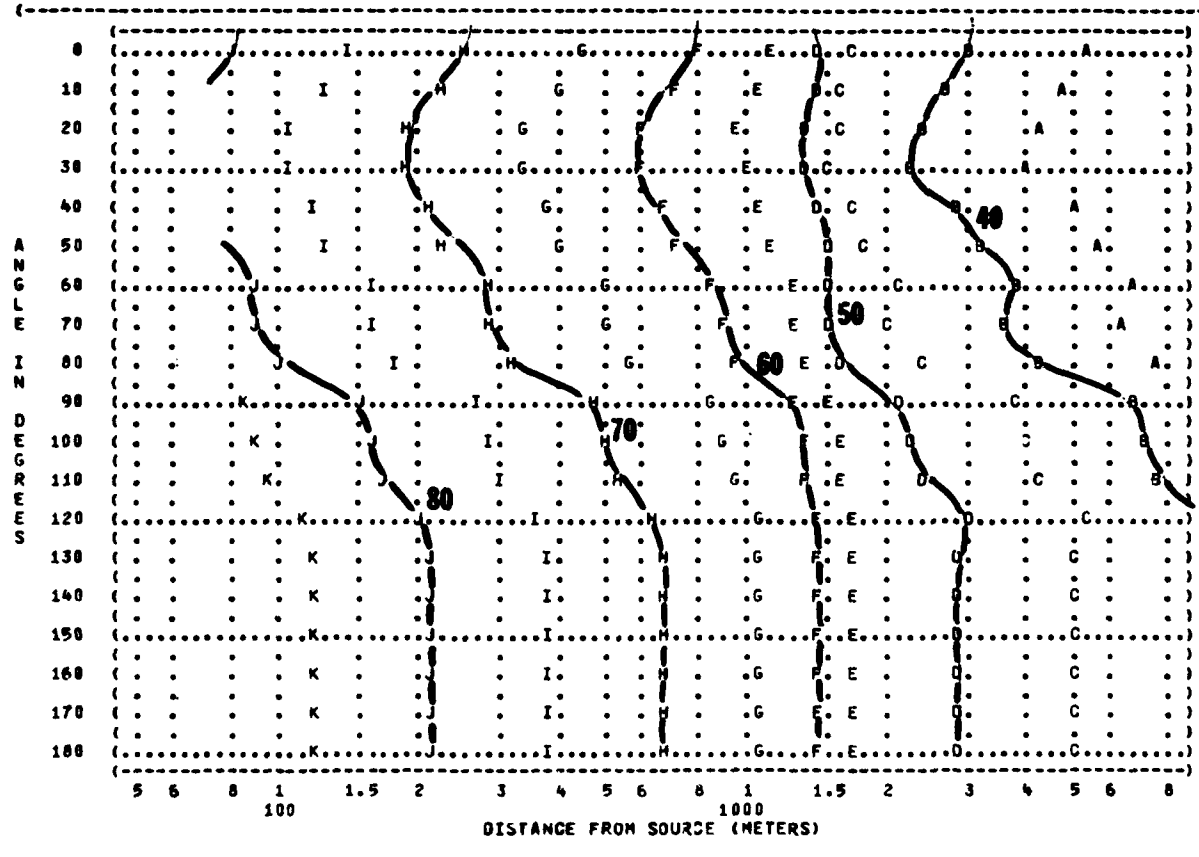


FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M Hg
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-081
RUN 03
26 OCT 81
PAGE 20

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

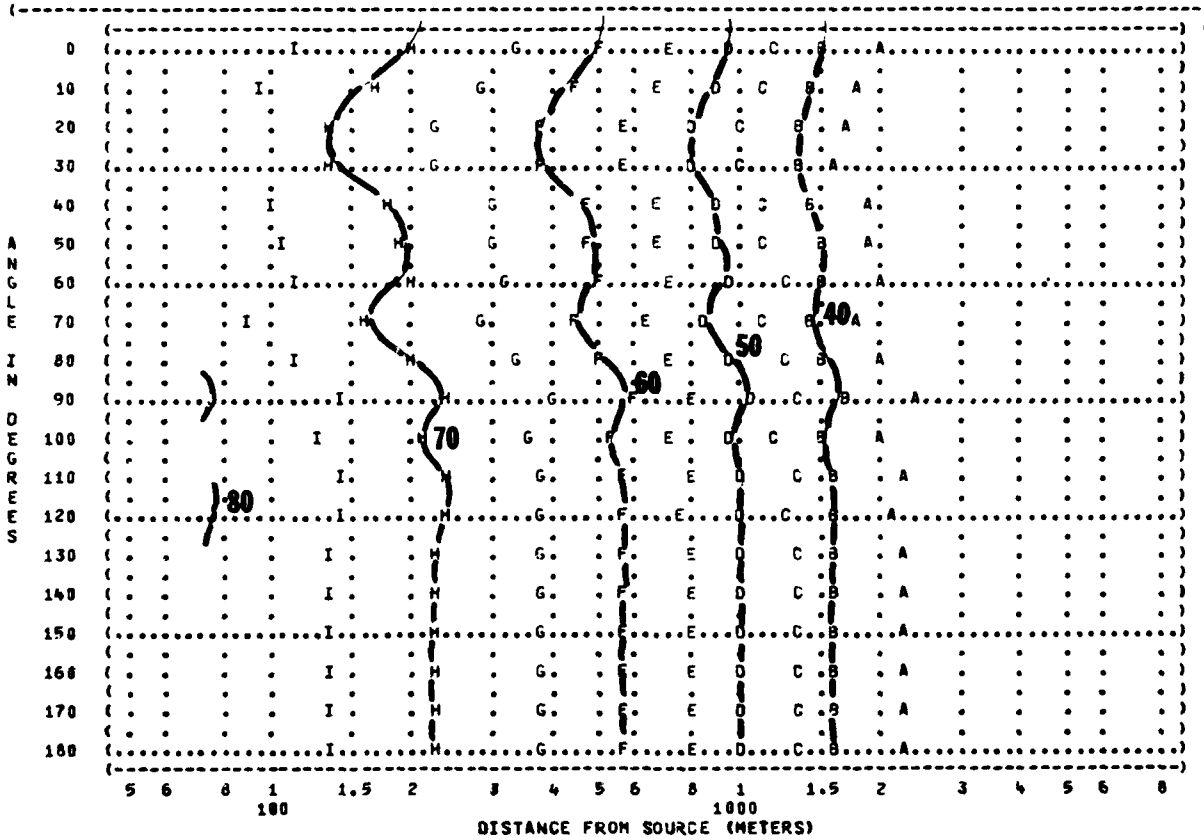


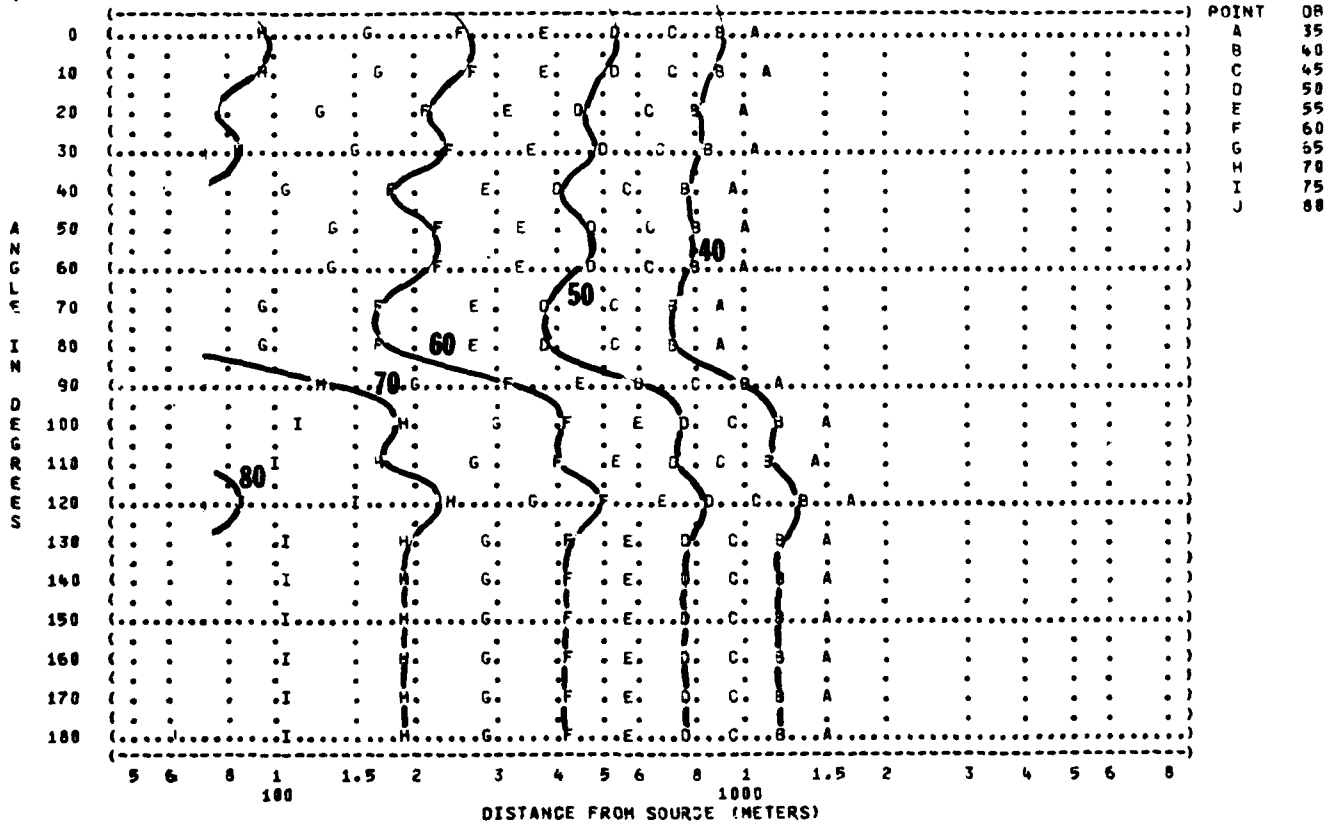
FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-702-001 RUN 03 26 OCT 81 PAGE 21

NOISE SOURCE/SUBJECT: F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

FIGURE: 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 03
26 OCT 81
PAGE 22

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	50
G	65

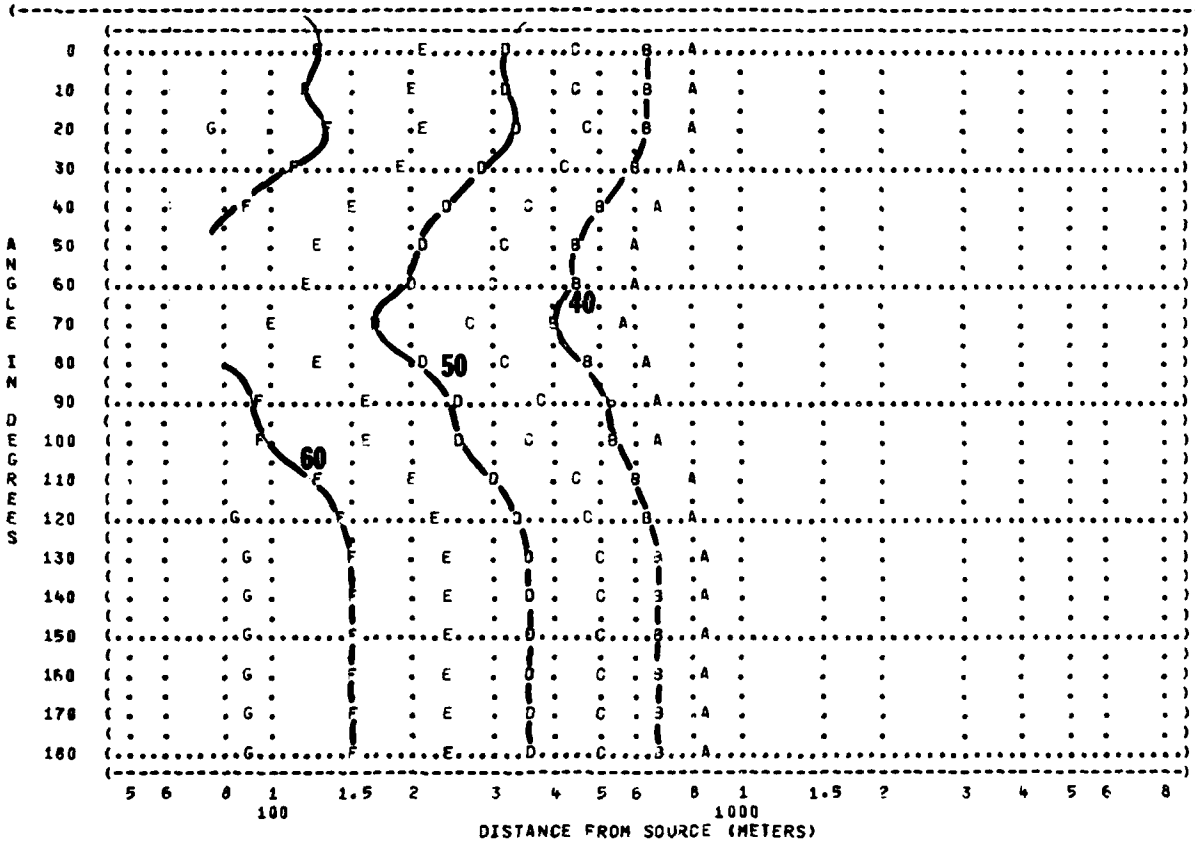


FIGURE 2.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-702-081 RUN 03 26 OCT 81 PAGE 23

NOISE SOURCE/SUBJECT: F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

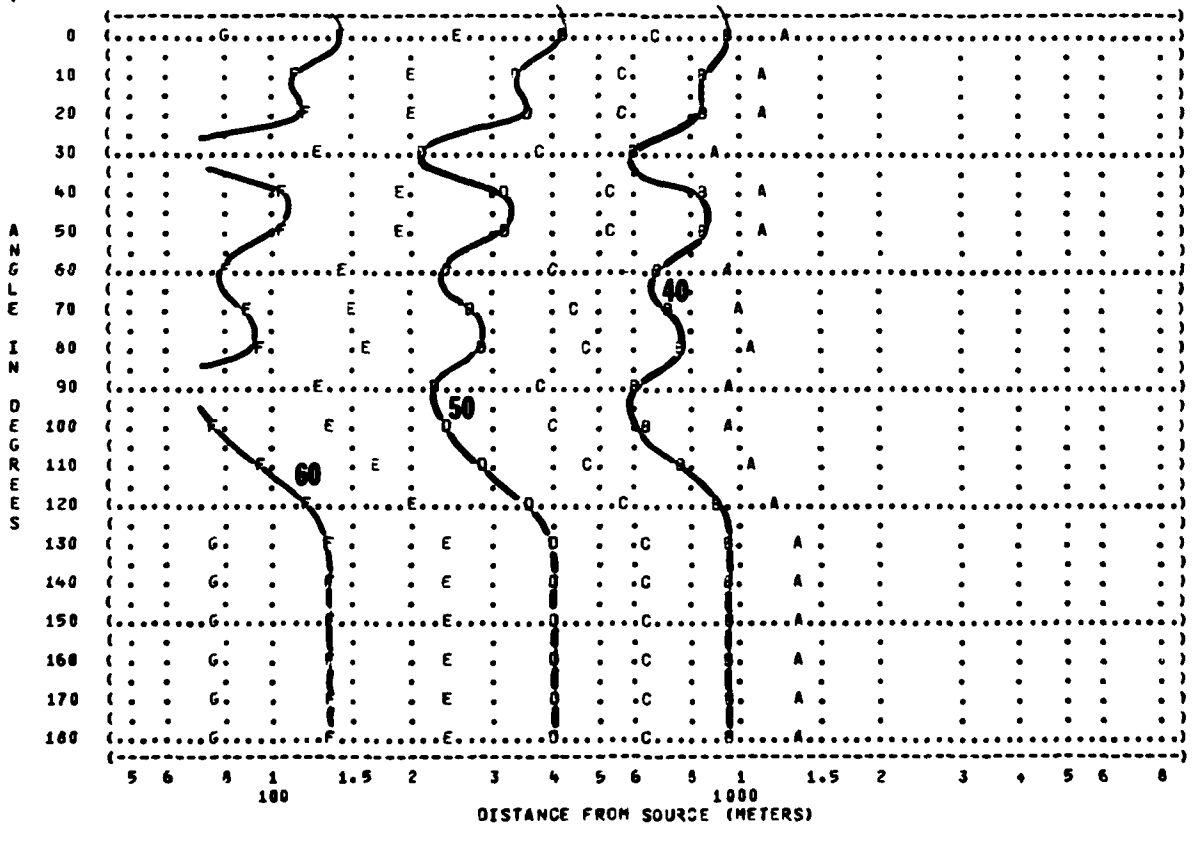


FIGURE: 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 03
26 OCT 81
PAGE 24

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

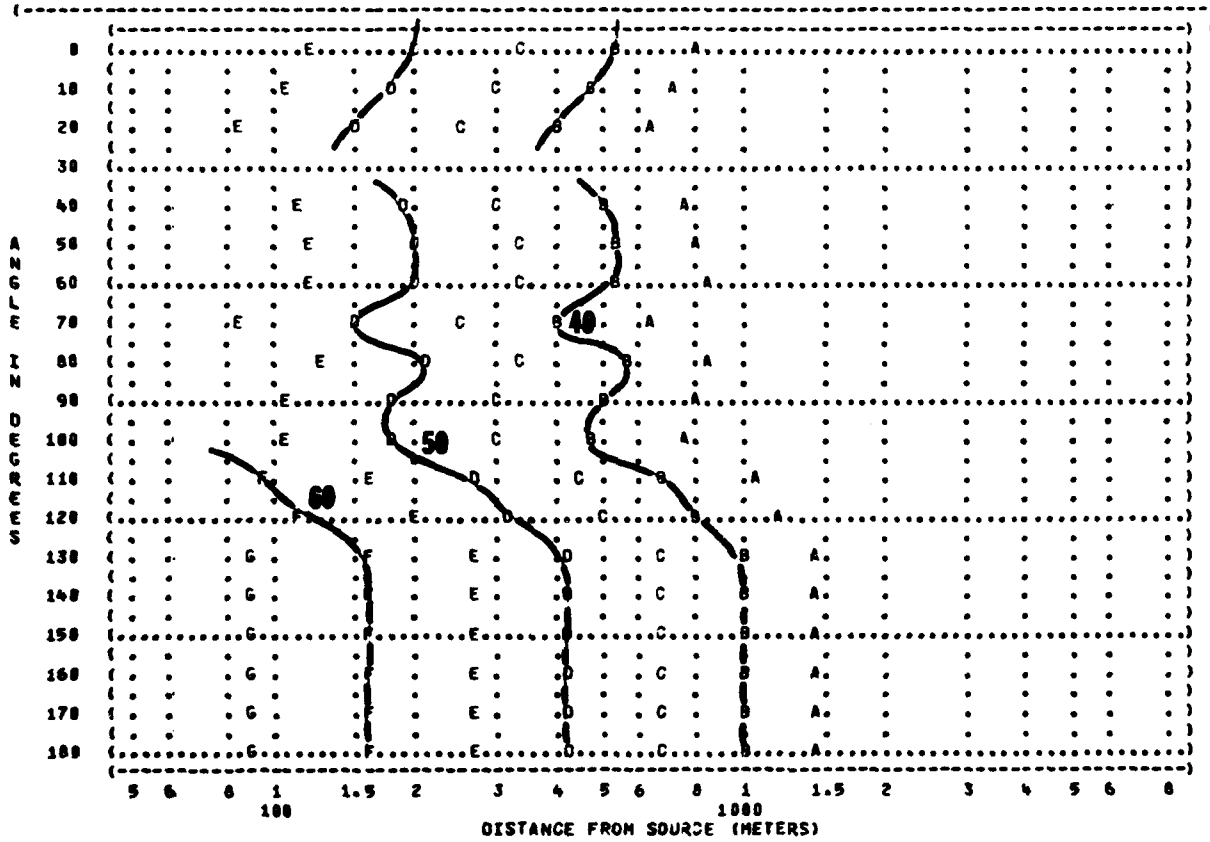


FIGURE: SOUND PRESSURE LEVEL (SPL)
2.8 EQUAL LEVEL CONTOURS (DB)
2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 03
26 OCT 81
PAGE 25

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

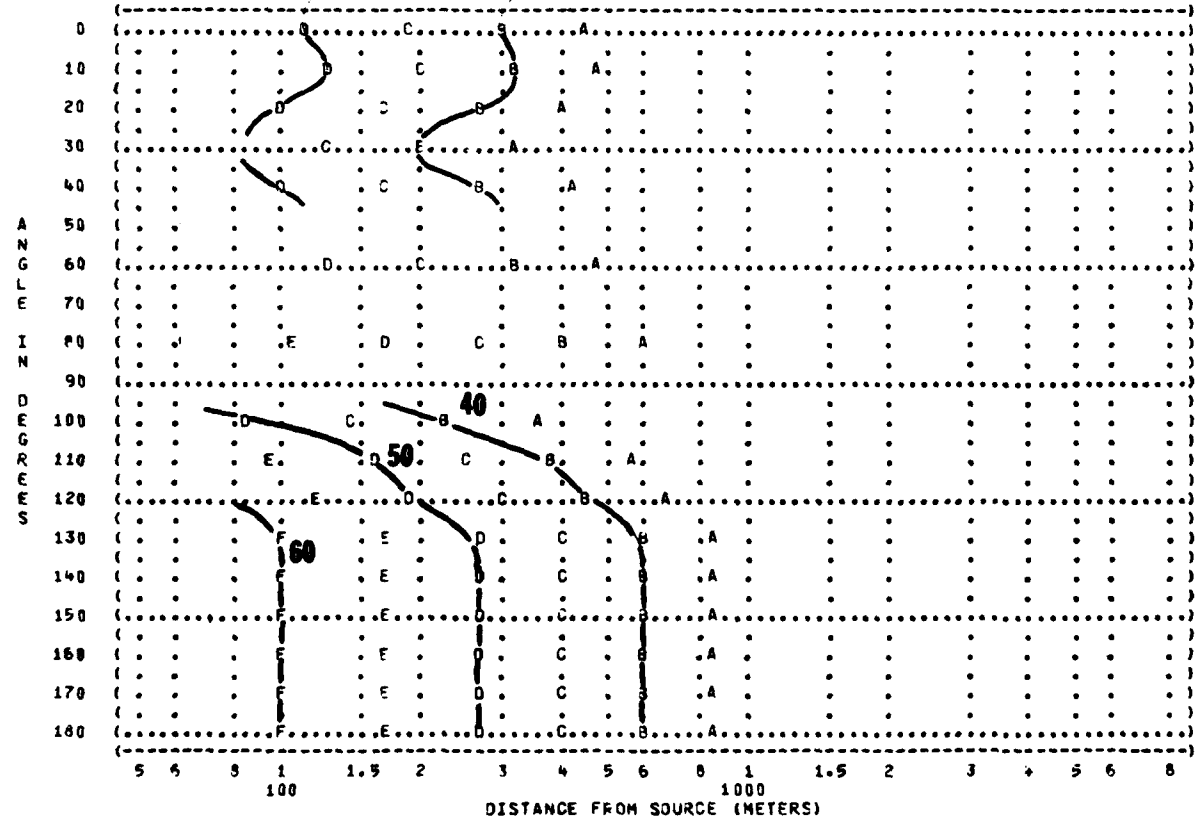


FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:
F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE	MILITARY POWER (98.8%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-702-001
RUN 03
26 OCT 81
PAGE 26

POINT	DB
A	35
B	40
C	45
D	50
E	55

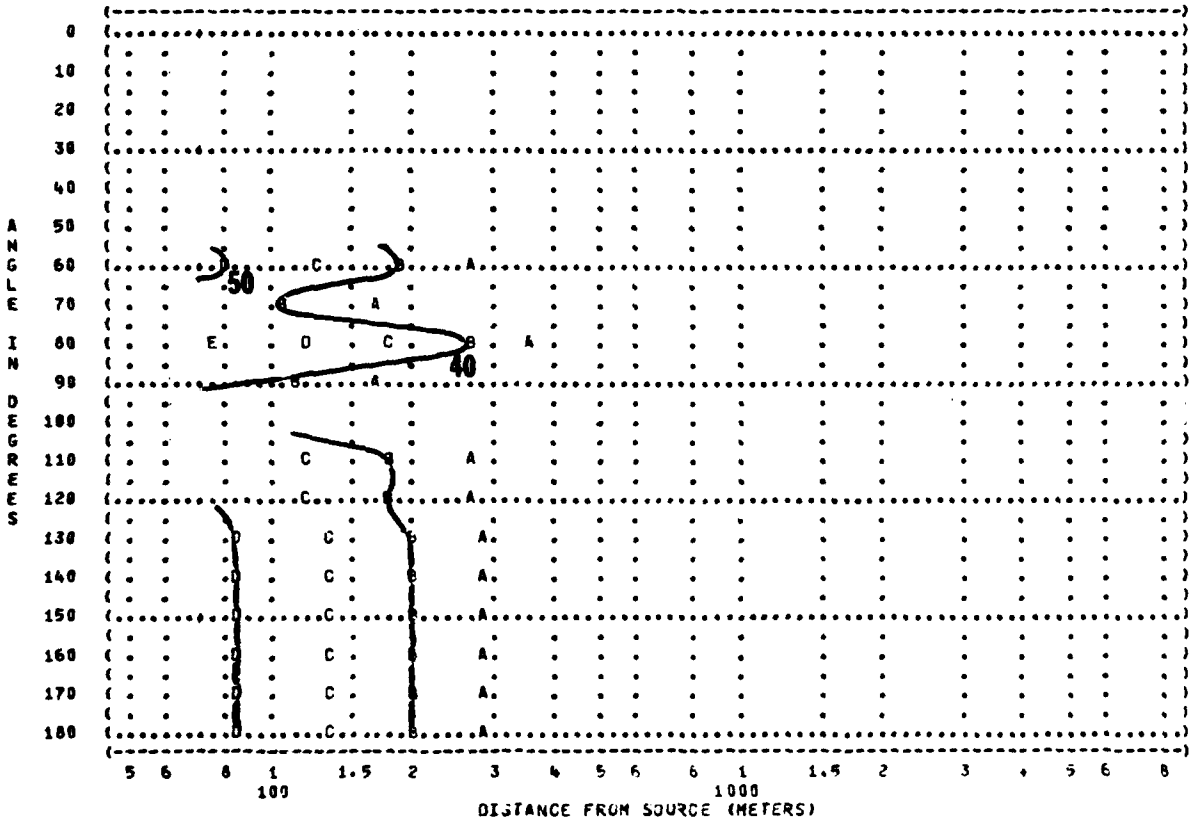


FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST 8F-702-001
RUN 03
26 OCT 81
PAGE 27

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

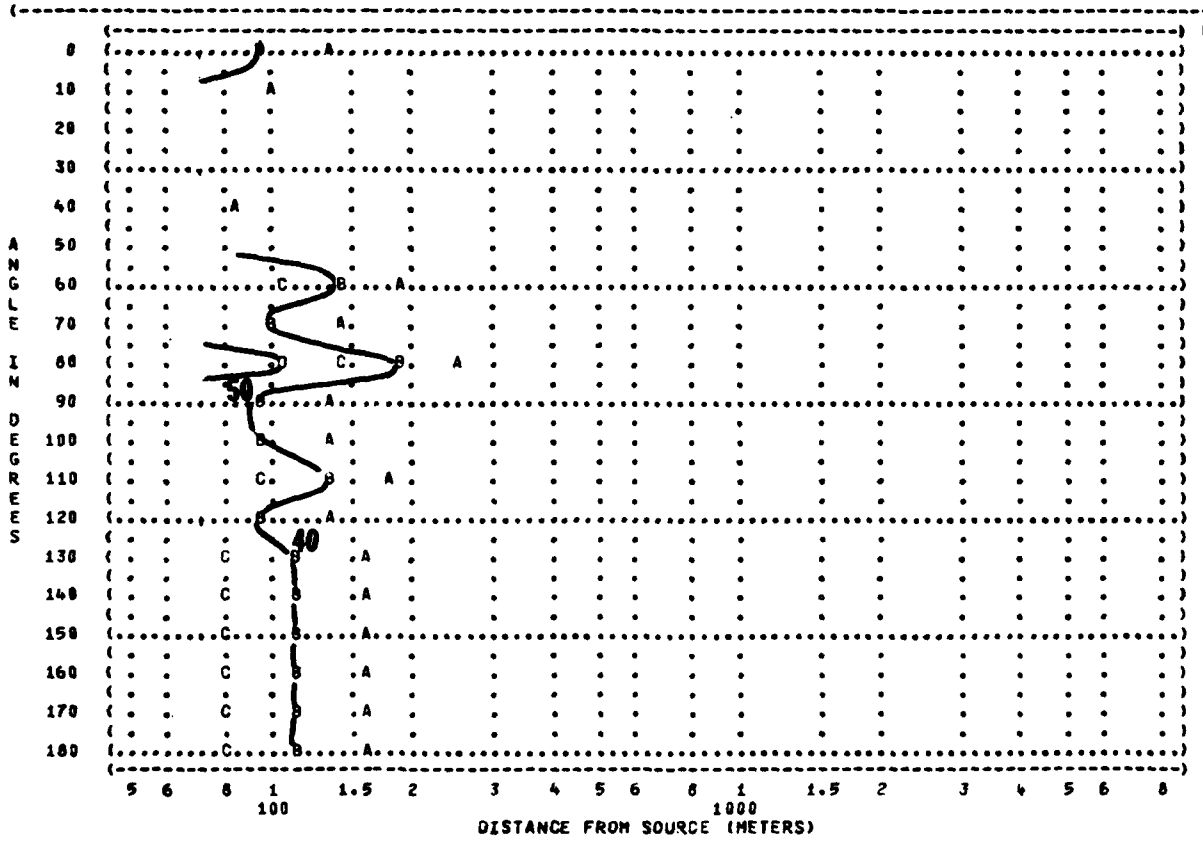


FIGURE: 2.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
16 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 04
26 OCT 81
PAGE 18

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

OPERATION:
AFTERBURNER PWR (98.6%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	55
B	60
C	65
D	70
E	75
F	80
G	85
H	90
I	95
J	100

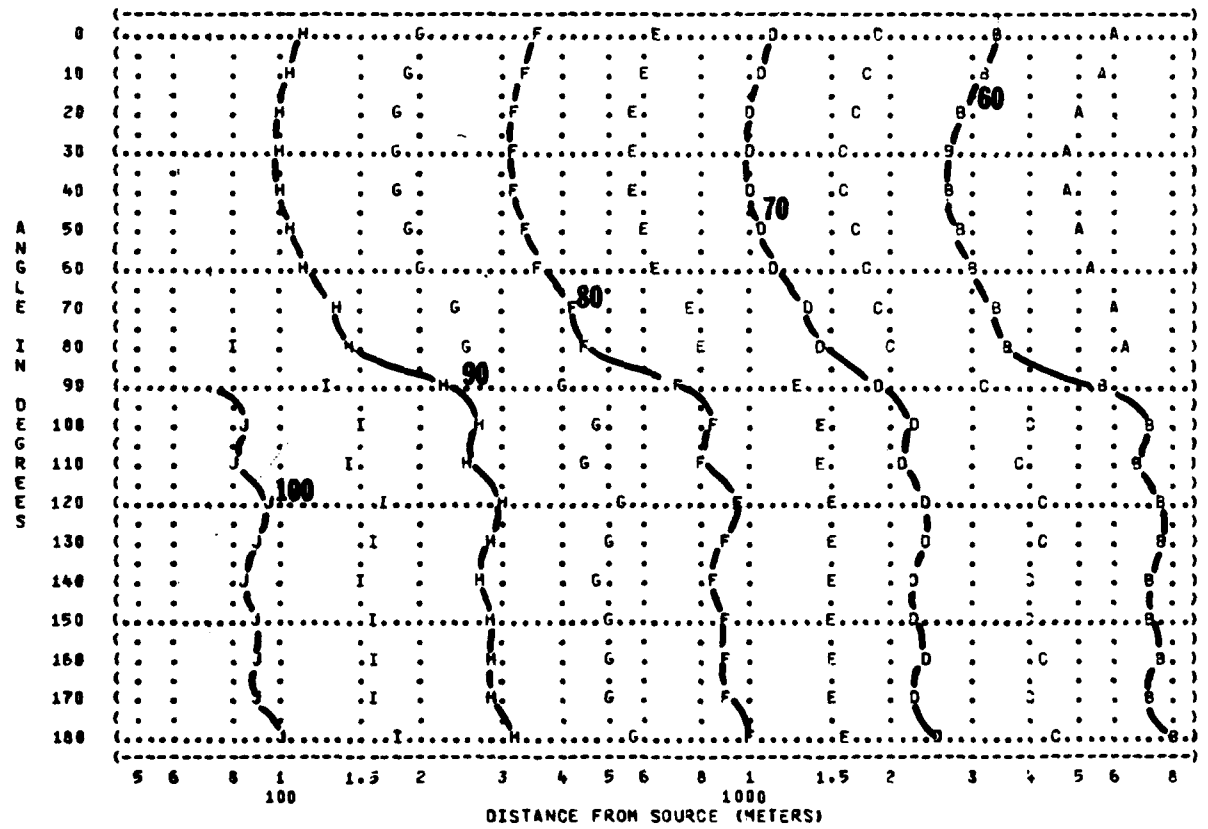


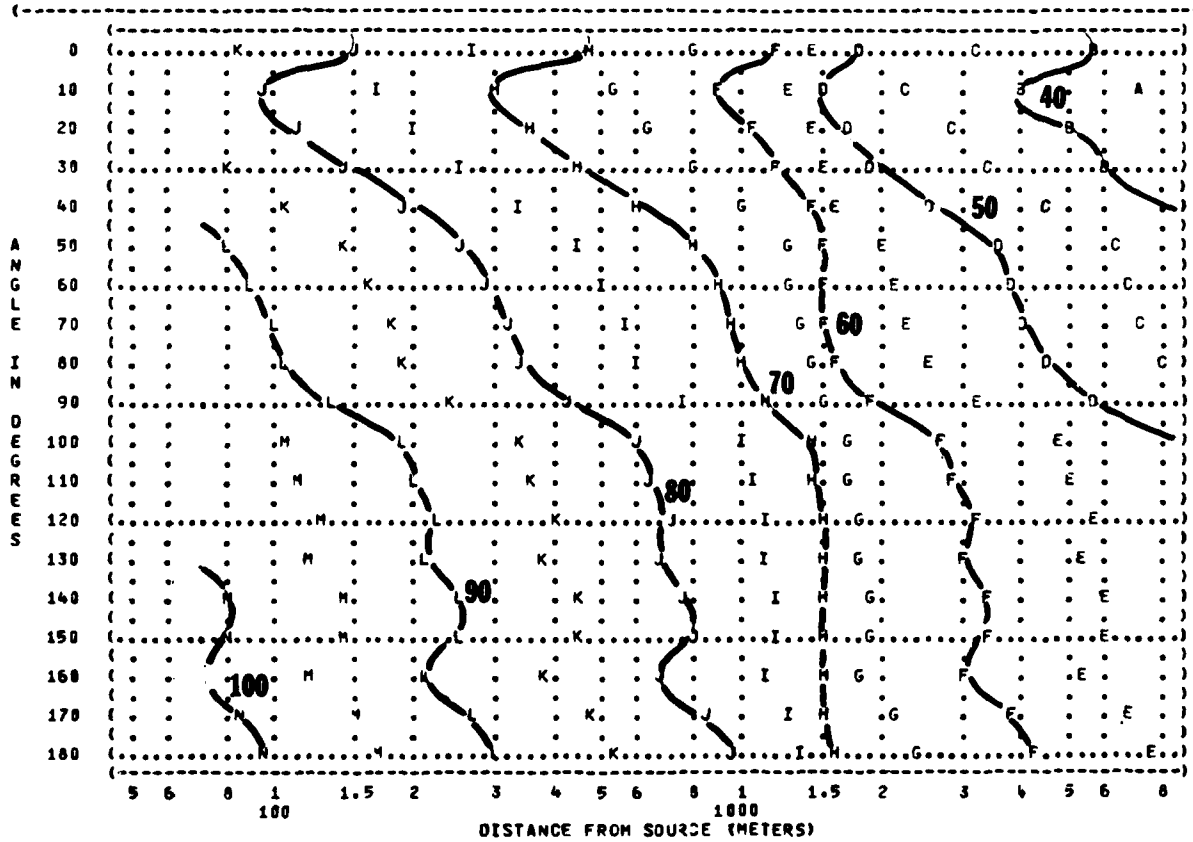
FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-4 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J79-GE-15 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-782-881 RUN 04 26 OCT 81



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95
N	100

FIGURE: 2.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 04
26 OCT 81
PAGE 20

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90

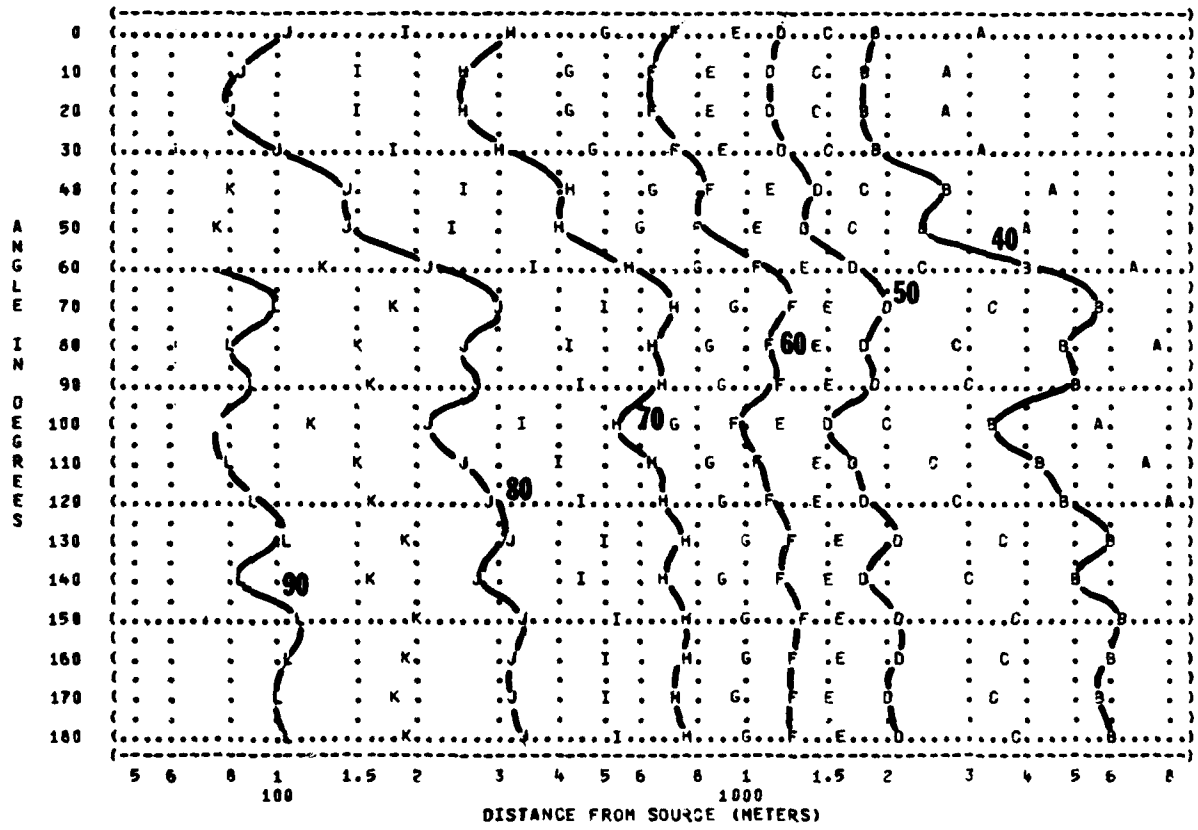


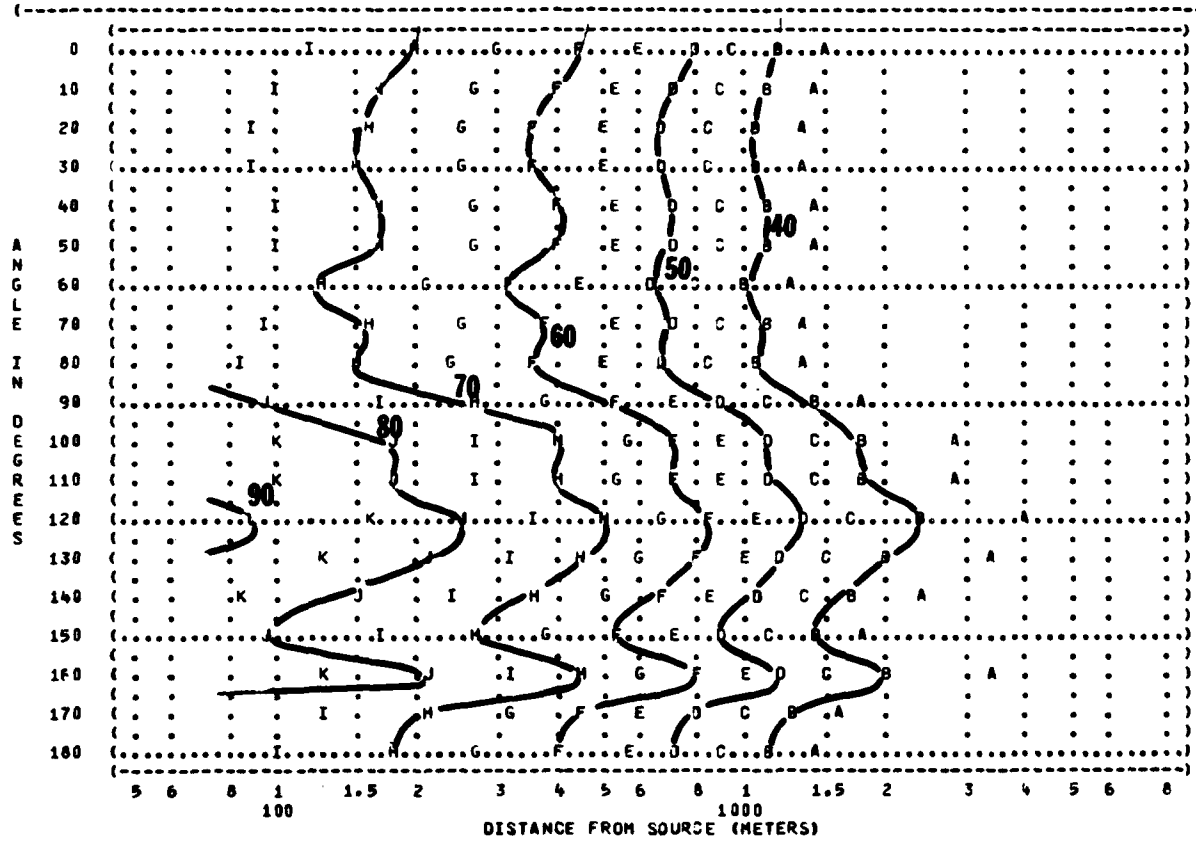
FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 129 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-081
RUN 04
26 OCT 81
PAGE 21



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90

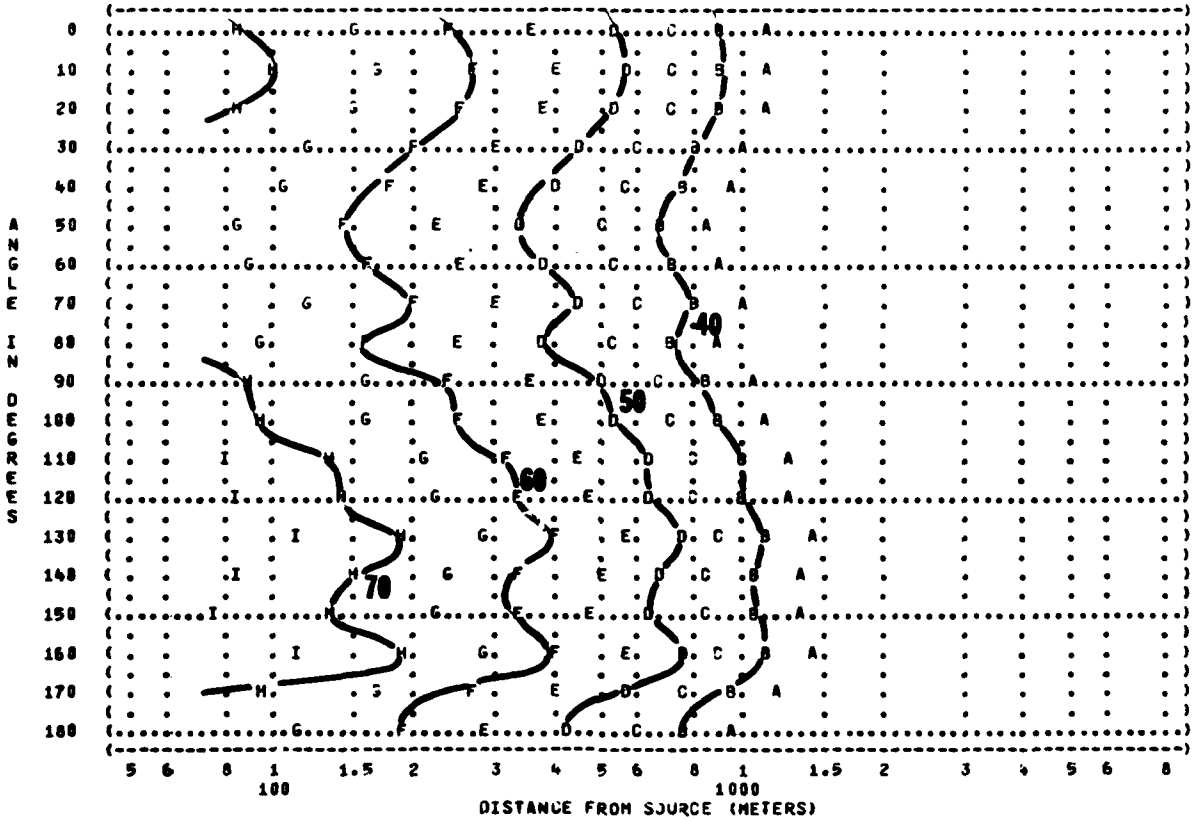
FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 04
26 OCT 81
PAGE 22



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

FIGURE: 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 04
26 OCT 91
PAGE 23

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

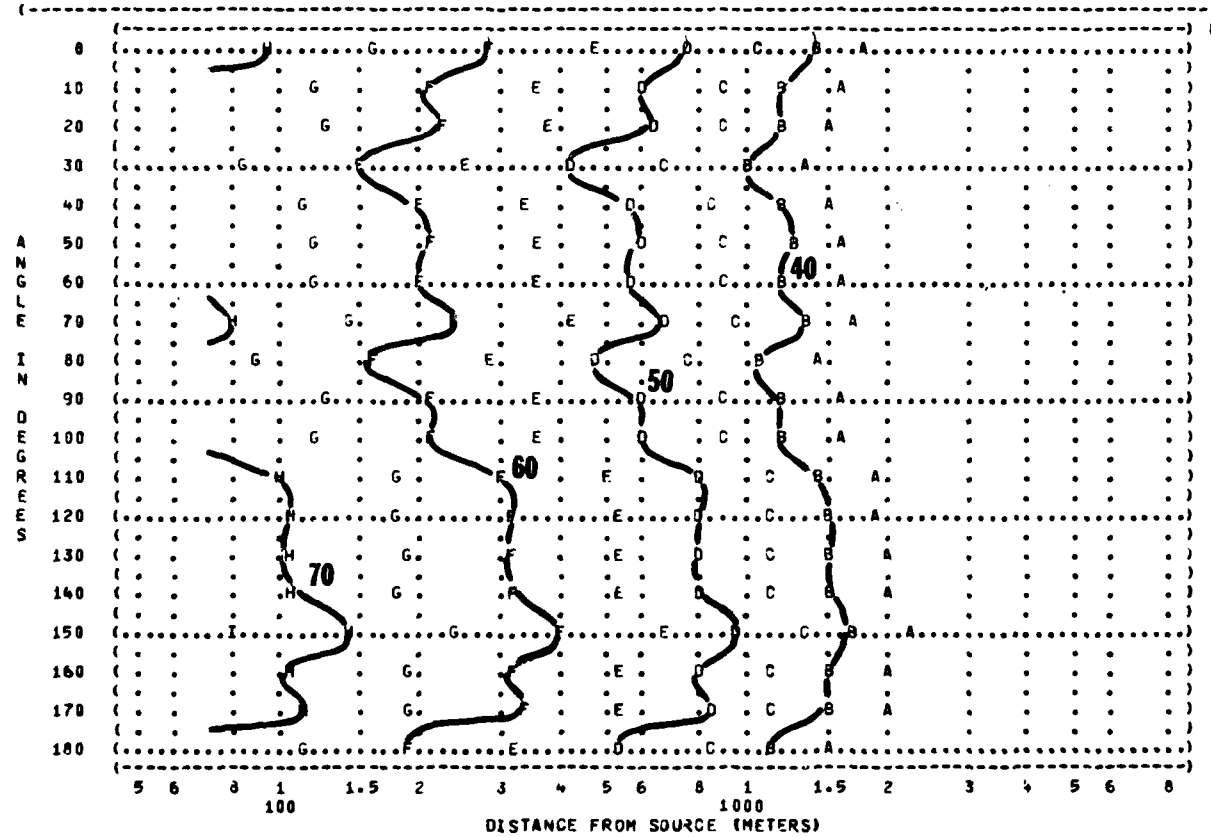


FIGURE: 2.8

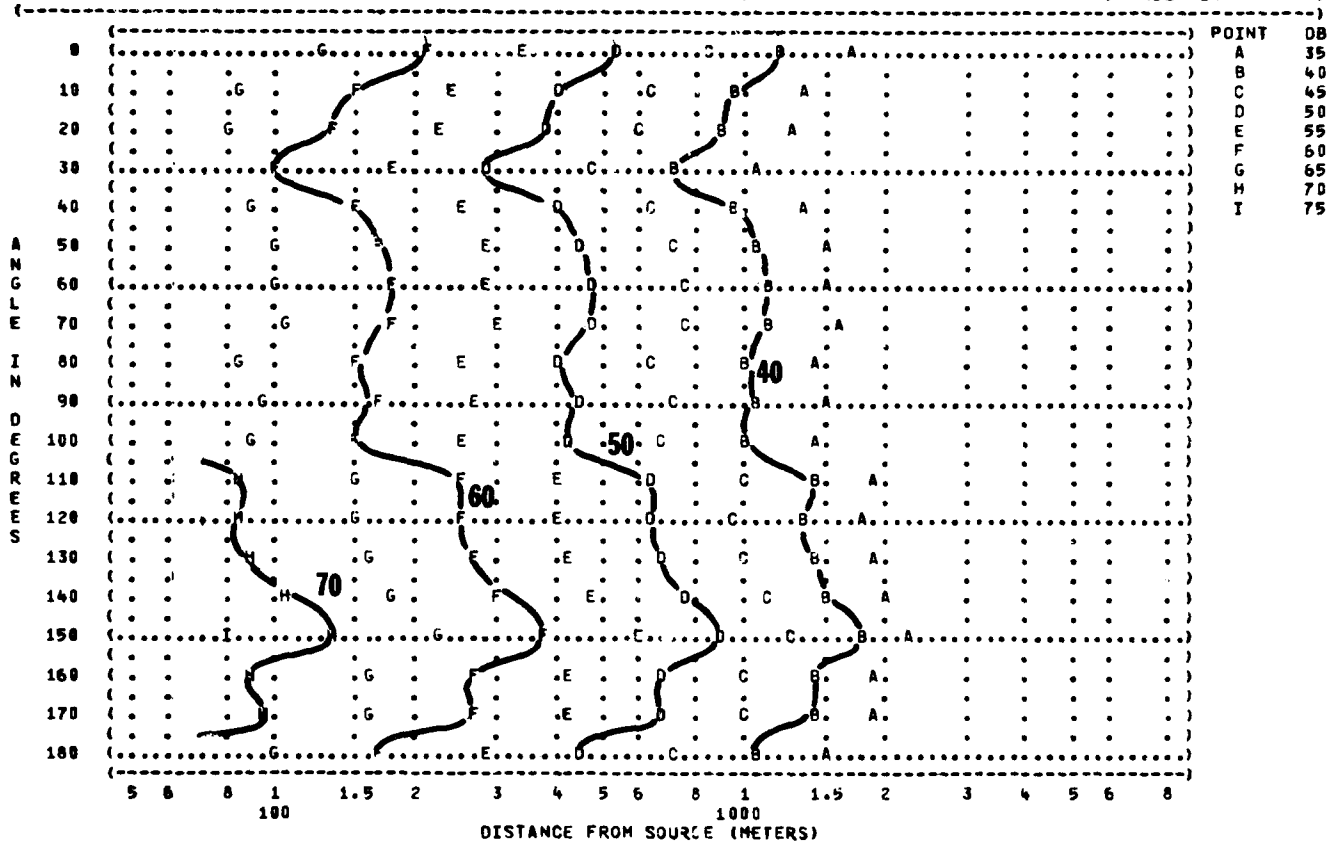
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 H MS
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 04
26 OCT 81
PAGE 24



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

FIGURE 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-001
RUN 04
26 OCT 81
PAGE 25

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

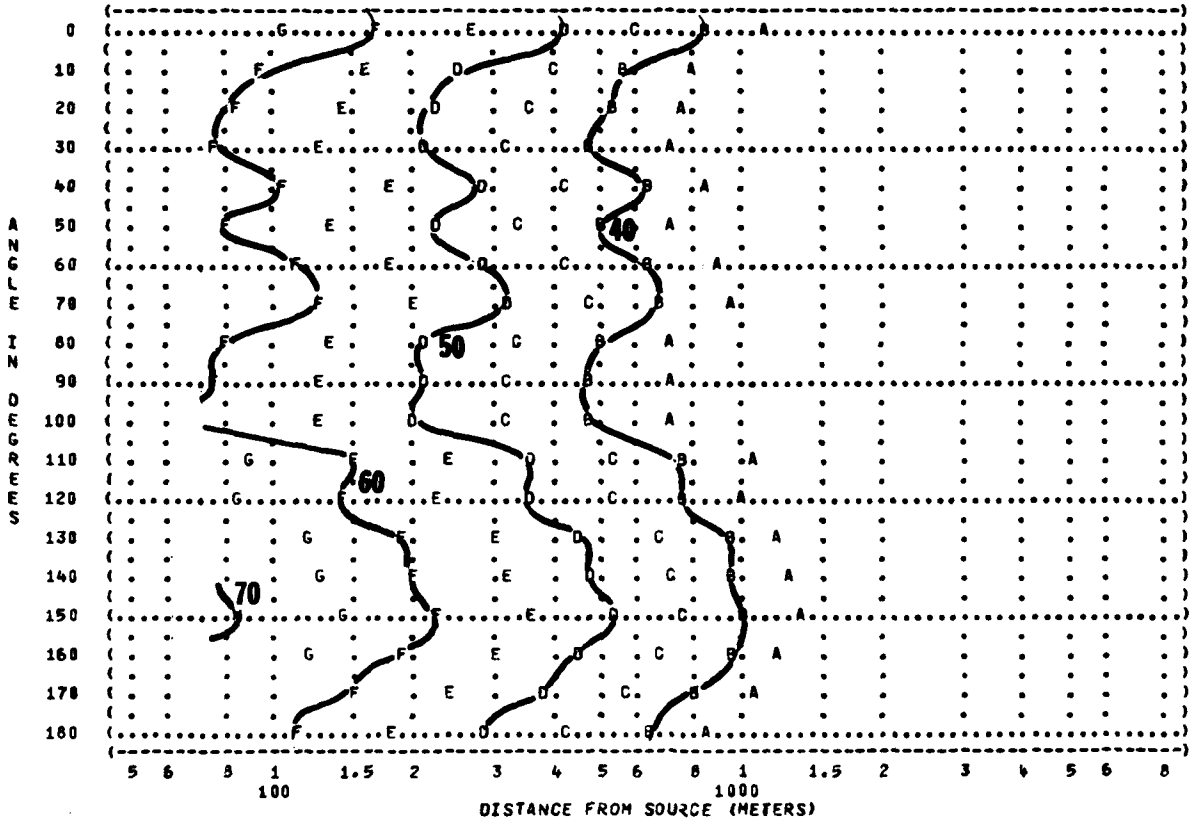


FIGURE: 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-782-881
RUN 04
26 OCT 81
PAGE 26

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

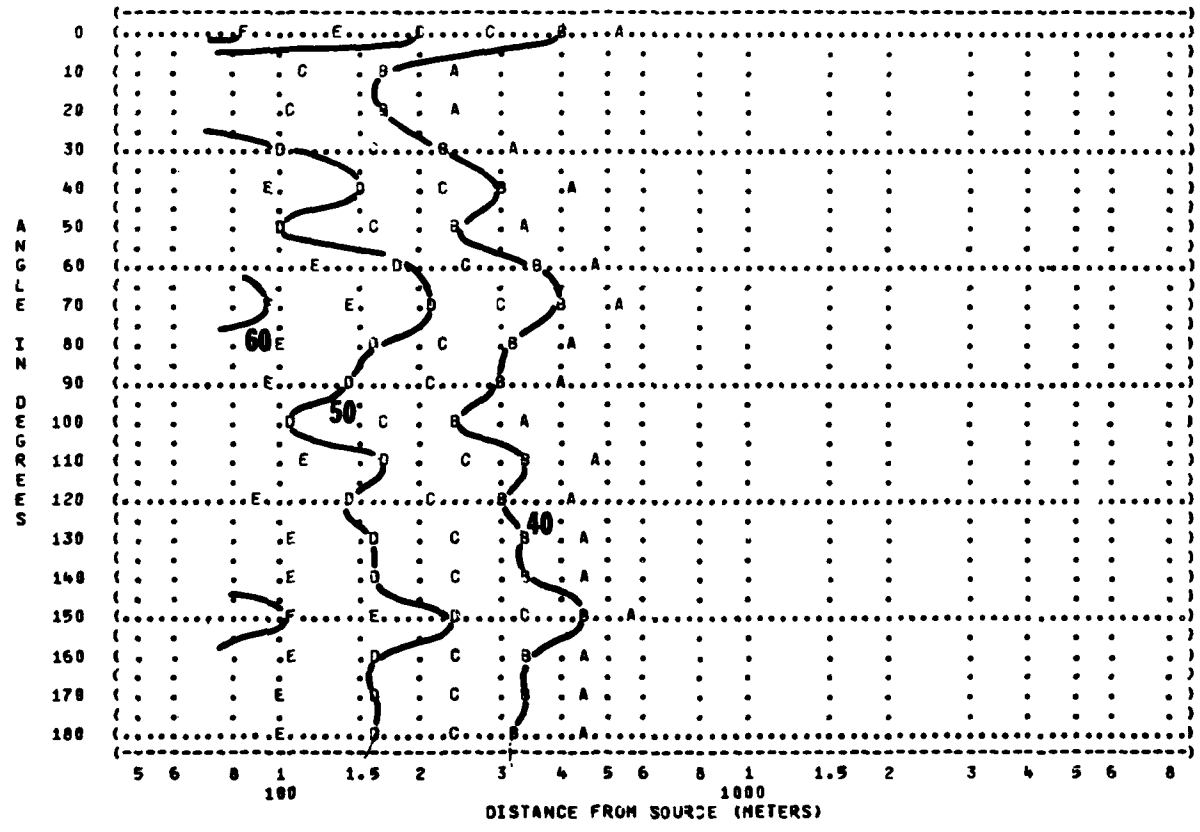


FIGURE: 2.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-702-00A
RUN 04
26 OCT 81
PAGE 27

NOISE SOURCE/SUBJECT:
F-4 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-GE-15 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

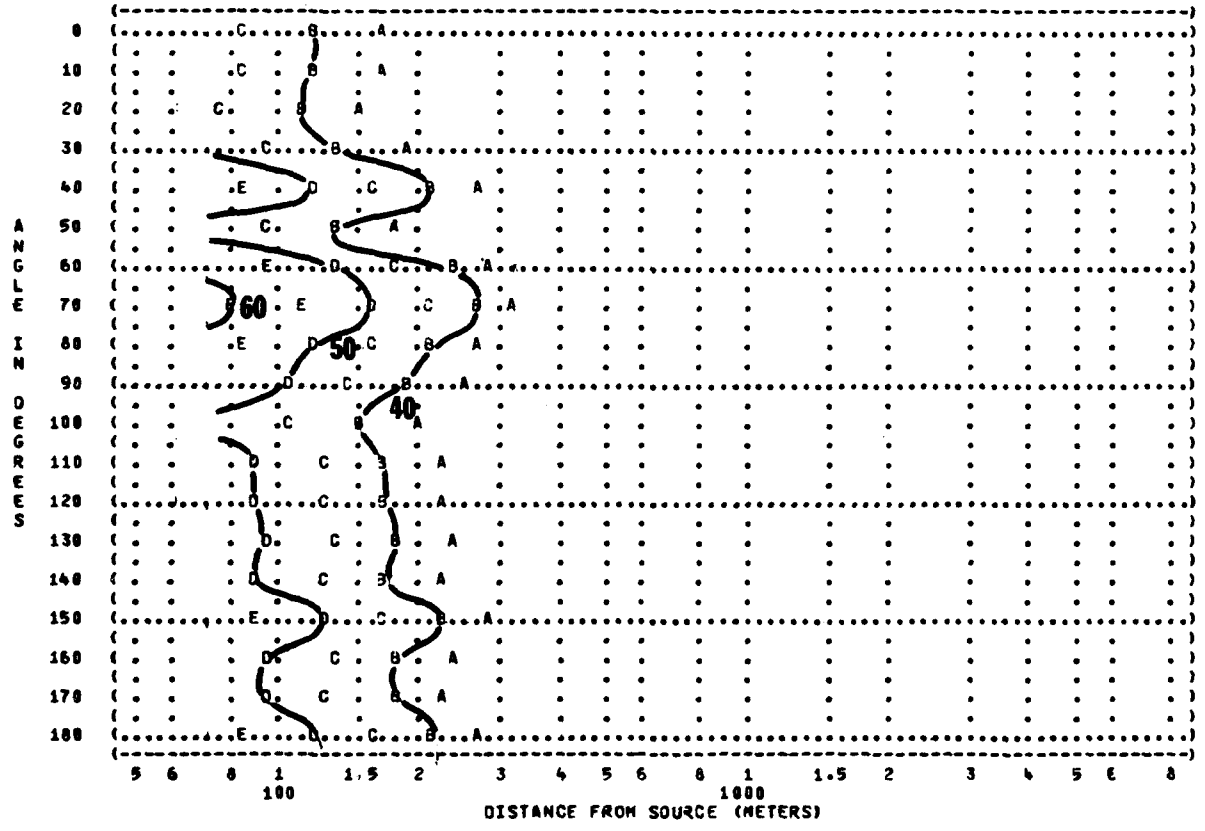


TABLE 3.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS F-15 AIRCRAFT IN THE ASE-TEXAS INC. HUSH-HOUSE, GROUND RUNUP KELLY AFB TEXAS, TEST #BF-704-001

Aircraft Engine Operation	Single Engine	
Idle	68%	RPM
	1100	LBS/HR FF
	420	FTIT
80%	80	% RPM
	4600	LBS/HR FF
	815	FTIT
Military Power	92%	RPM
	8700	LBS/HR FF
	915	FTIT
Afterburner	92%	RPM
	37000	LBS/HR FF
	915	FTIT
Meteorology		
Temperature	27	C
Bar Pressure	.760	M Hg
Rel Humidity	78	%
Wind - Speed	3	M/Sec (6 Kts)
- Direction	350	Deg

TABLE: 3.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 01
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 27 C
BAR PRESS = .760 M HG
REL HUMID = 78 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5		66<	70<		64<	68<	64<	66<	63<	65<	65<	64<		62<	61<	61<			
16		63<	69<	60<	63<	65<	61<	67<	66<	62<	64<	64<	64<	61<					
20		60<	67	57<	61<	64<	61<	63<	66<	62<	62<	61<	60<	61<	62<	59<	59<	58<	
25		56<	66<		56<	61<	60<	61<	63<	59<	60<	58<		58<	57<	59<	57<	57<	
31.5		53<	61<		54<	58<	55<	60<	61<	59<	58<	56<	55<	55<	60<	57<	57<		54<
40	55<		62<	53<	54<	54<	57<	58<	60<	57<	55<	55<	54<	55<	58<	53<	64<	58<	
50			56<		55<				57<							56<			
63															55<				56<
80	53<		53<			53<	54<		55<	56<		55<			57<	52<	63<	58<	55<
100	58<			57<		54<	58<	59<	56<	57<	54<	54<	60<	54<			57<	56<	55<
125								56<									61<		
160	52<			52<					52<					52<			57<	52<	
200			49<														52<		
250	49<	50<	50<	47<	45<		44<		45<	47<	45<	48<	48<	47<			48<	44<	
315	47<	46<	44<	45<					43<	43<		43<	45<	45<			45<		
400													42<	41<			43<		
500	41<		40<	39<									33<	39<			38<		
630	39<	39<	40<	36<	36<					37<		36<	33<	39<			39<		
800	37<	37<	40<	36<	37<	36<	36<			38<	36<	40<	43<	44<			41<	38<	
1000	39<	36<	39<	40<	41<	38<	36<	36<	37<	40<	40<	40<	43<	45<			39<	38<	
1250	43<	40<	39<	40<	43<	40<	39<	38<	38<	42<	42<	39<	45	43<	34<	33<	40<	38<	34<
1600	44	42<	40<	39<	42<	41<	40<	39<	38<	42<	41<	39<	46	45	34<		40<	41<	35<
2000	41<	40<	39<	38<	36<	36<	36<	35<	36<	41<	38<	38<	44	41<			40<	36<	33<
2500	54	49	41	43	44	42	39<	40<	38<	39<	35<	36<	41	38<			37<	33<	
3150	51	49	40<	40<	40<	39<	35<	38<	36<	35<	30<	32<	38<	35<		34<	36<	33<	
4000	48	47	39<	40<	39<	38<	35<	40<	37<	31<			34<				34<		
5000	47	43	37<	40	40	37<	34<	41	39	30<			31<	28<		28<	32<	30<	
6300	46	44	37	39	40	37	33<	38	37	27<			25<				29<		
8000	46	43	37	39	37	35<	34<	38	37	29<		27<		25<			27<		
10000	41	39	29<	33<	31<	29<	28<	33<	32<	27<		25<							
OVERALL	63	69	75	64	68	72	69	72	72	70	70	69	67	68	68	66	69	65	61

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 3.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 02
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 27 C
BAR PRESS = .760 M HG
REL HUMID = 78 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	74	71<	69<	71<	68<	70<	69<	73	73	73	73	75	73	75	74	74	74	73	74
16	69<	70	69<	68<	69<	67<	69<	74	75	74	74	74	74	76	76	75	75	72	75
20	66<	63<	66<	67	68	68	69	74	72	73	75	73	74	75	78	75	76	76	79
25	56<	57<	61<	61<	61<	63<	65<	68	69	68	69	71	71	70	75	74	74	74	76
31.5	53<	57<	58<	57<	60<	61<	60<	64	63<	63<	63<	68	67	68	71	71	71	70	73
40	60<	57<	57<	57<	61<	60<	62<	66	62<	59<	58<	62<	63<	63<	68	69	69	68	69
50	59<	58<	57<	56<	57<	59<	61<	64<	62<	60<	58<	61<	61<	61<	63<	63<	68	67	68
63	57<	57<	56<	56<	57<	58<	59<	60<	59<	60<	59<	61<	62<	59<	58<	58<	61<	59<	68<
80	56<	54<	55<	57<	56<	58<	60<	58<	59<	56<	58<	59<	73	58<	58<	59<	59<	58<	58<
100	58<	58<	58<	59<	59<	59<	57<	63<	61<	61<	62<	60<	62<	61<	62<	57<	61<	58<	54<
125	57<	56<	56<	57<	55<			59<	59<	59<	58<	58<	61<	61<	58<	56<	59<	57<	
160	52<			61<			53<	53<	55<	53<	55<	54<	55<	56<	54<	55<	57<	54<	
200			51<	54<	51<					55<	54<		50<	49<	53<	52<	55<	52<	
250	49<	51<	51<	48<	44<		45<	48<	47<	50<	47<	47<	48<	47<	52<	52<	53<	50<	46<
315	47<	49<	47<	46<					43<	45<	43<	43<	45<	45<	49<	50<	49<	47<	42<
400	42<	43<	41<	42<									43<	44<	46<	46<	46<	42<	
500	45<	44<	43<	43<	41<	39<		39<		39<			43<	41<	45<	45<	44<	40<	39<
630	42<	42<	42<	42<	40<	38<	40<	38<	35<	36<			41<	41<	46	43<	45<	41<	37<
800	39<	39<	41<	40<	40<	38<	39<	38<	36<	38<		36<	42<	41<	47	43<	48	42<	38<
1000	41<	41<	42<	42<	42<	40<	39<	38<		37<			43<	41<	48	41<	48	41<	39<
1250	46	44<	43<	45	45	43<	40<	40<	38<	38<	36<	35<	43<	40<	47	41<	45	40<	38<
1600	46	45	44<	45	43<	42<	41<	39<	38<	39<	38<	36<	42<	39<	43<	40<	44<	39<	37<
2000	41<	42<	41<	40<	37<	36<	38<	38<	36<	37<	35<	35<	40<	38<	41<	38<	42<	38<	34<
2500	46	44	42	41<	42	42	35<	37<	35<	36<	32<	32<	37<	36<	39<	36<	40<	36<	33<
3150	45	42	38<	37<	39<	38<	34<	36<	33<	33<			35<	34<	39<	36<	39<	35<	31<
4000	42	42	37<	34<	35<	34<	31<	37<	34<	30<				32<	38<	34<	37<	33<	
5000	46	45	39	39	40	38	33<	42	35<	31<			29<	31<	35<	33<	35<	33<	28<
6300	43	42	37	39	39	37	29<	39	33<	28<	27<			27<	34<	32<	32<	30<	
8000	41	39	35<	35<	35	34<	28<	36	33<	29<	29<	25<	25<	27<	32<	31<	31<	29<	
10000	36	33<	30<	28<	29<	28<	25<	33<	30<	25<	29<			24<	28<	26<	27<	25<	
OVERALL	76	75	74	75	74	75	75	79	73	79	80	80	81	81	82	81	82	81	83

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 3.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST OF-704-001
RUN 03
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 27 C
BAR PRESS = .760 M HG
REL HUMID = 78 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	85	82	83	83	83	81	82	86	86	86	85	85	87	85	81	85	83	84	85
16	84	84	84	83	82	83	84	85	88	87	87	85	86	87	86	87	86	86	86
20	78	78	80	80	82	86	84	86	85	85	88	87	89	86	87	86	85	88	88
25	74	72	74	75	77	78	81	83	81	82	86	86	86	86	85	85	86	87	83
31.5	72	70	71	73	74	74	74	77	75	77	79	82	82	82	82	84	82	85	84
40	70	71	73	73	75	73	75	76	71	72	74	75	80	77	79	82	83	81	84
50	68	67	69	68	70	71	71	73	72	71	71	71	73	74	78	79	79	78	80
63	64<	64<	64<	67	66	65<	67	69	68	69	68	71	71	68	67	72	73	72	72
80	65	63<	64	64	67	69	66	66	67	67	66	69	69	67	66	66	67	68	67
100	67	65	65	63<	67	65	64<	65	66	66	66	70	71	70	68	66	66	66	68
125	68	64<	63<	62<	63<	63<	61<	63<	63<	66<	67	66<	69	65<	65<	66<	67	64<	61<
160	63	61<	61<	61<	61<	59<	57<	58<	60<	63	64	63	65	62<	63	65	67	67	58<
200	61	61	60<	56<	58<	57<	55<	56<	56<	60<	62	61	66	63	64	64	66	66	59<
250	58	60	59	56	55	53<	55	55	57	60	61	64	67	65	65	68	65	66	59
315	60	59	62	56	50<	48<	51<	50<	53	55	57	61	61	59	60	64	64	61	52<
400	60	59	61	56	55	53	50<	54	56	50<	54	59	59	57	57	61	64	57	50<
500	66	66	65	62	64	63	59	63	59	51	50	54	58	56	55	60	66	58	48<
630	64	64	63	62	63	63	58	59	58	53	53	55	59	53	54	60	63	59	49
800	61	59	60	59	60	60	59	57	57	54	55	56	57	54	55	61	62	60	50
1000	62	60	59	58	61	60	55	55	53	51	52	53	56	52	53	57	60	61	49
1250	64	63	62	60	61	61	57	56	53	51	53	55	57	52	53	57	57	60	50
1600	62	61	60	56	59	58	56	52	53	49	52	53	55	51	52	54	59	59	47
2000	57	58	57	55	54	53	52	50	51	48	51	51	52	48	49	50	55	59	45
2500	53	53	52	51	52	50	48	45	45	44	46	47	48	43	46	48	51	53	43
3150	52	52	47	47	46	47	46	44	44	42	44	44	45	44	46	47	54	51	43
4000	48	49	44	44	44	45	43	43	44	41	42	41	42	41<	44	44	45	47	40<
5000	48	47	44	44	43	44	43	42	43	41	41	40	43	41	43	43	46	45	40
6300	48	48	45	43	43	43	41	41	42	39	39	38	40	39	41	41	44	42	39
8000	47	48	44	43	42	41	41	42	43	41	40	39	40	39	41	41	41	40	37
10000	44	45	40	39	38	38	38	39	40	37	36	35	36	36	38	37	37	37	34<
OVERALL	89	87	88	88	88	90	89	91	92	92	93	93	94	93	92	93	92	94	93

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 3.2

MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 04
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 27 C
BAR PRESS = .760 M HG
REL HUMID = 78 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	92	92	1	91	92	92	92	92	93	95	95	97	95	96	93	96	96	95	96
16	89	90	90	90	91	91	93	93	95	95	97	98	96	97	98	94	95	96	96
20	90	89	90	91	92	92	94	93	97	96	99	97	99	97	97	96	98	98	99
25	89	91	88	85	88	90	90	93	93	94	96	98	93	96	95	98	97	98	99
31.5	80	77	76	81	84	86	86	88	90	91	92	94	95	93	93	97	97	96	97
40	79	78	79	81	82	83	85	86	95	85	89	91	91	92	95	97	97	93	97
50	78	77	78	78	80	82	82	85	82	30	82	86	85	89	91	93	94	91	94
63	75	74	72	76	76	76	79	80	80	79	79	81	79	83	85	86	88	86	89
80	75	72	72	75	74	74	74	78	78	79	80	80	73	79	78	81	81	81	79
100	77	75	74	74	73	73	73	74	74	77	81	81	73	79	79	79	78	78	75
125	76	74	71	72	72	71	68	71	72	75	77	76	77	74	77	76	77	78	73
150	72	69	67	67	66	65	64	67	69	72	73	72	72	72	74	75	75	74	71
200	68	69	63	65	65	65	62	64	64	69	71	72	72	71	73	70	71	73	69
250	60	69	62	65	64	62	62	64	63	69	71	73	72	71	76	72	72	71	66
315	63	67	62	65	60	56	57	61	60	65	65	69	69	67	70	69	68	67	67
400	67	68	64	64	61	59	56	62	59	61	63	67	68	65	67	65	64	63	66
500	67	67	64	66	66	66	60	65	60	60	61	63	69	65	68	68	64	62	69
630	67	66	64	65	66	67	60	64	62	62	63	64	65	63	67	68	62	62	69
800	67	65	64	65	66	66	63	64	61	62	64	65	63	63	67	69	64	61	69
1000	67	65	64	65	65	65	60	62	60	60	60	64	64	61	66	64	62	61	64
1250	71	71	69	69	68	68	63	63	60	61	60	66	64	60	68	65	62	61	64
1600	69	68	66	66	65	65	62	61	60	58	58	64	62	58	65	61	58	58	58
2000	64	64	63	63	61	59	58	59	58	56	56	61	60	55	59	59	56	55	55
2500	57	56	57	59	58	56	52	53	52	51	52	56	55	52	54	55	53	52	52
3150	54	55	52	53	52	52	50	57	51	50	50	53	52	51	52	53	51	51	51
4000	51	53	49	50	50	50	48	50	51	49	49	50	50	49	50	51	49	49	50
5000	51	52	50	50	50	49	49	51	51	49	48	49	49	48	49	50	49	49	50
6300	51	51	49	50	49	48	47	49	50	48	47	47	47	47	47	49	47	48	51
8000	50	50	47	48	47	47	46	49	50	48	47	46	47	46	47	48	47	47	48
10000	46	47	44	44	43	43	44	47	47	45	44	44	45	44	44	46	45	45	46
OVERALL	96	96	96	97	97	98	99	100	101	102	103	104	104	104	104	105	105	104	106

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

FIGURE: NORMALIZED FARFIELD NOISE LEVELS

3.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-784-081
RUN 01
26 OCT 81
PAGE 6

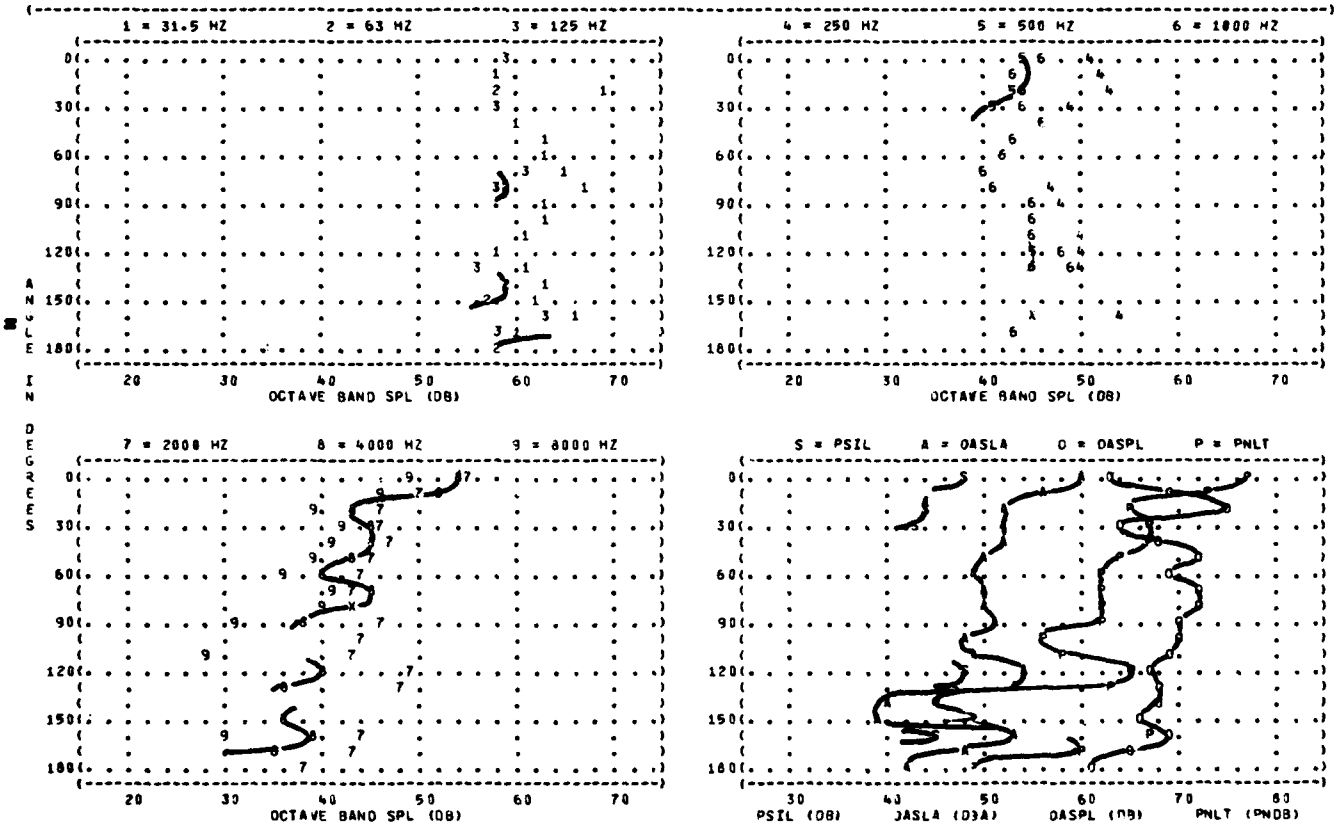


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

3.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-784-081
RUN 02
26 OCT 81
PAGE 6

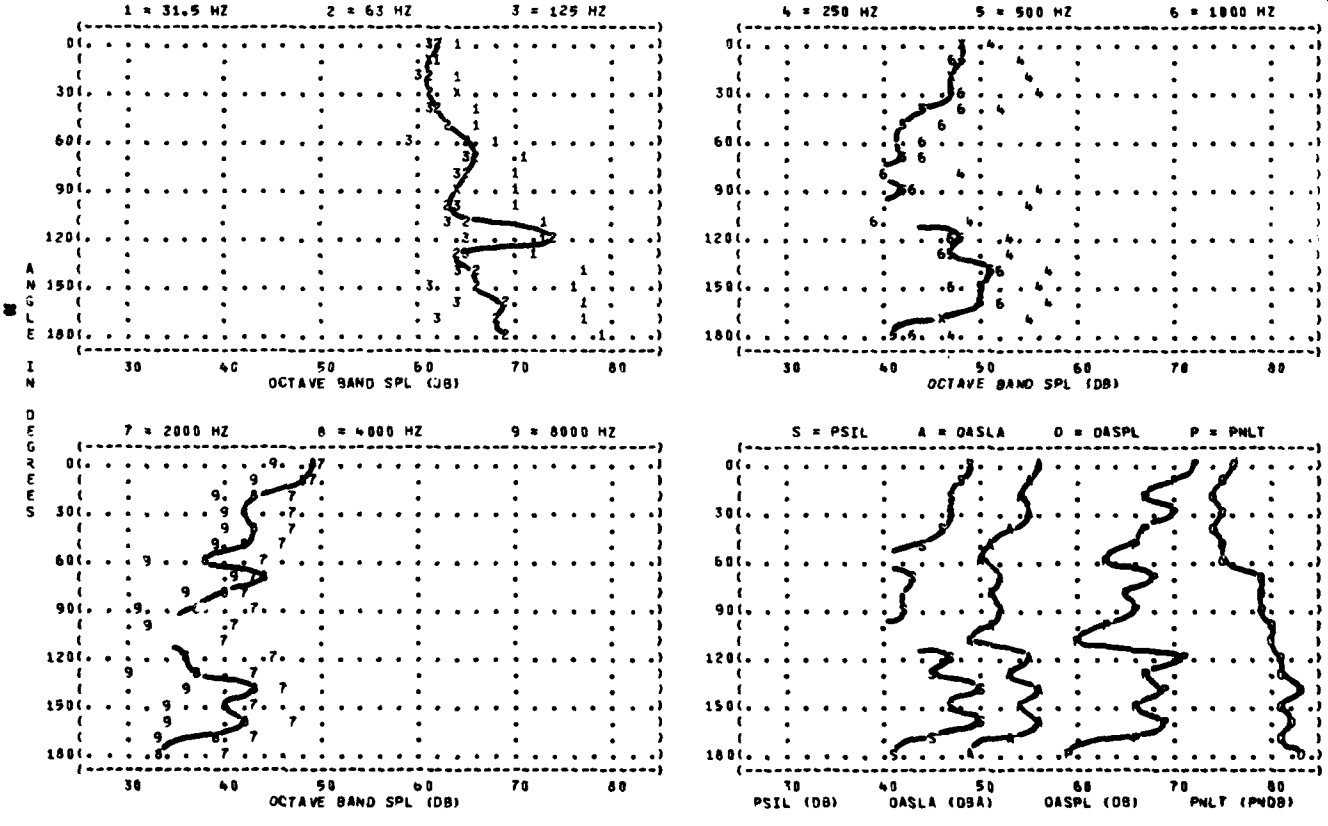


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

3.1

DISTANCE = 100 METERS

IDENTIFICATION:

OMEGA 1.4
TEST 3F-704-001
RUN 03
26 OCT 81
PAGE 6

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

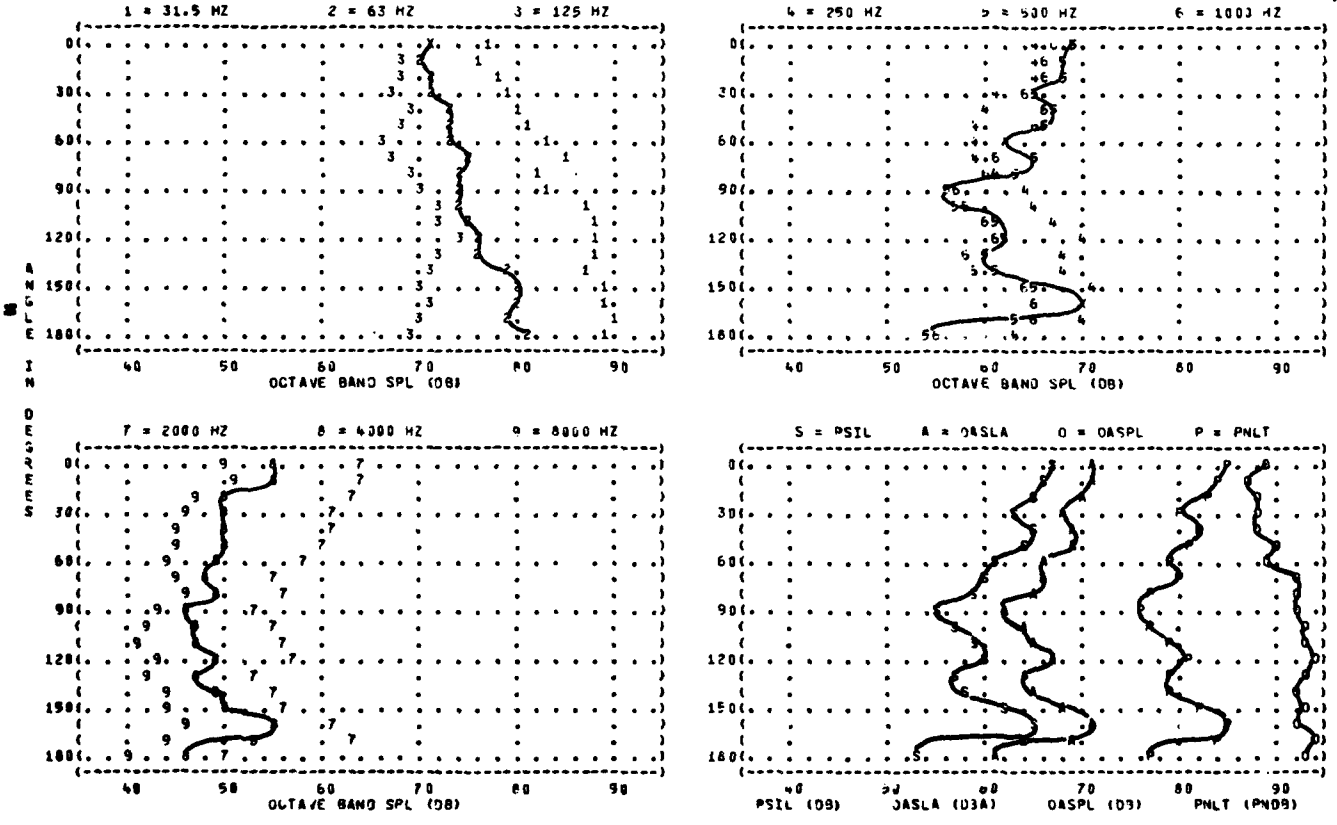


FIGURE 3.1 NORMALIZED FARFIELD NOISE LEVELS

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 04
26 OCT 81
PAGE 6

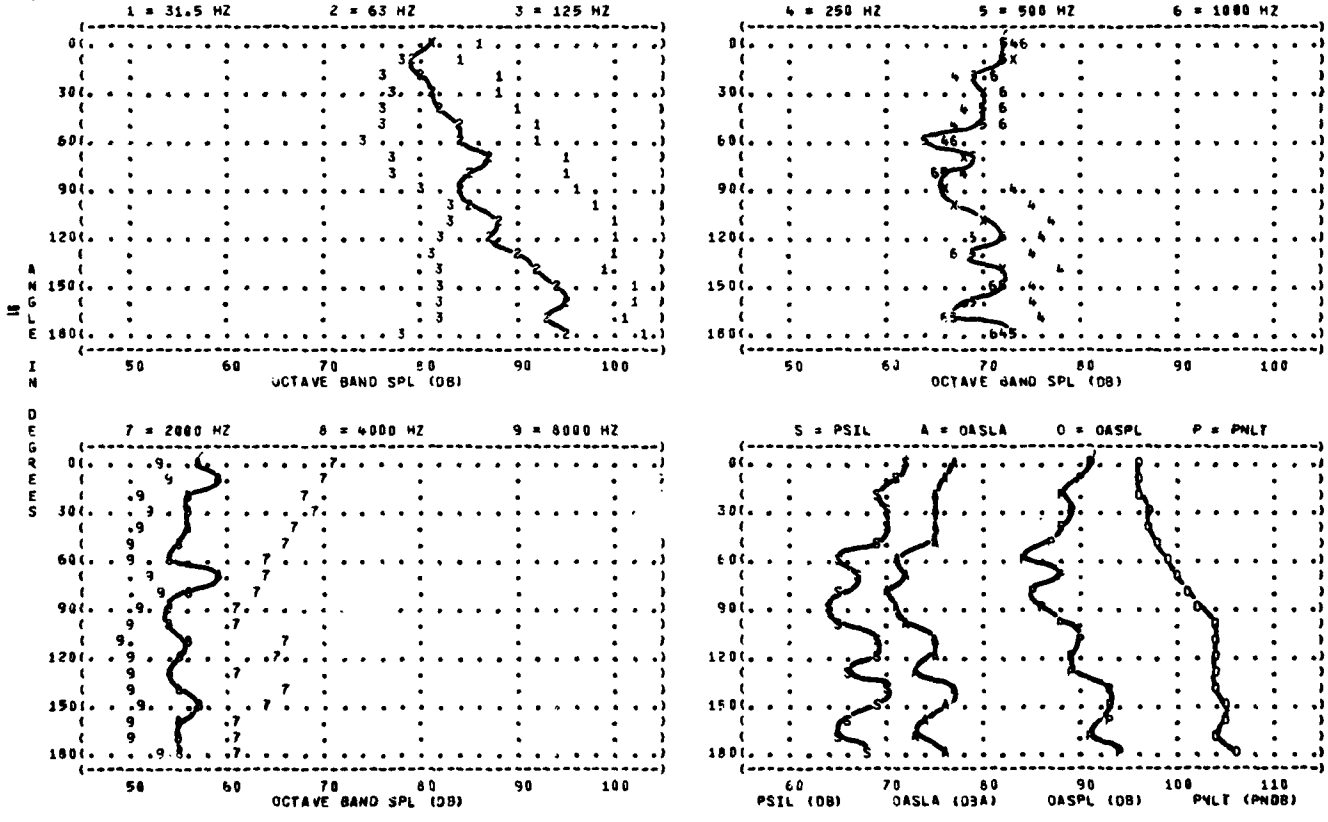


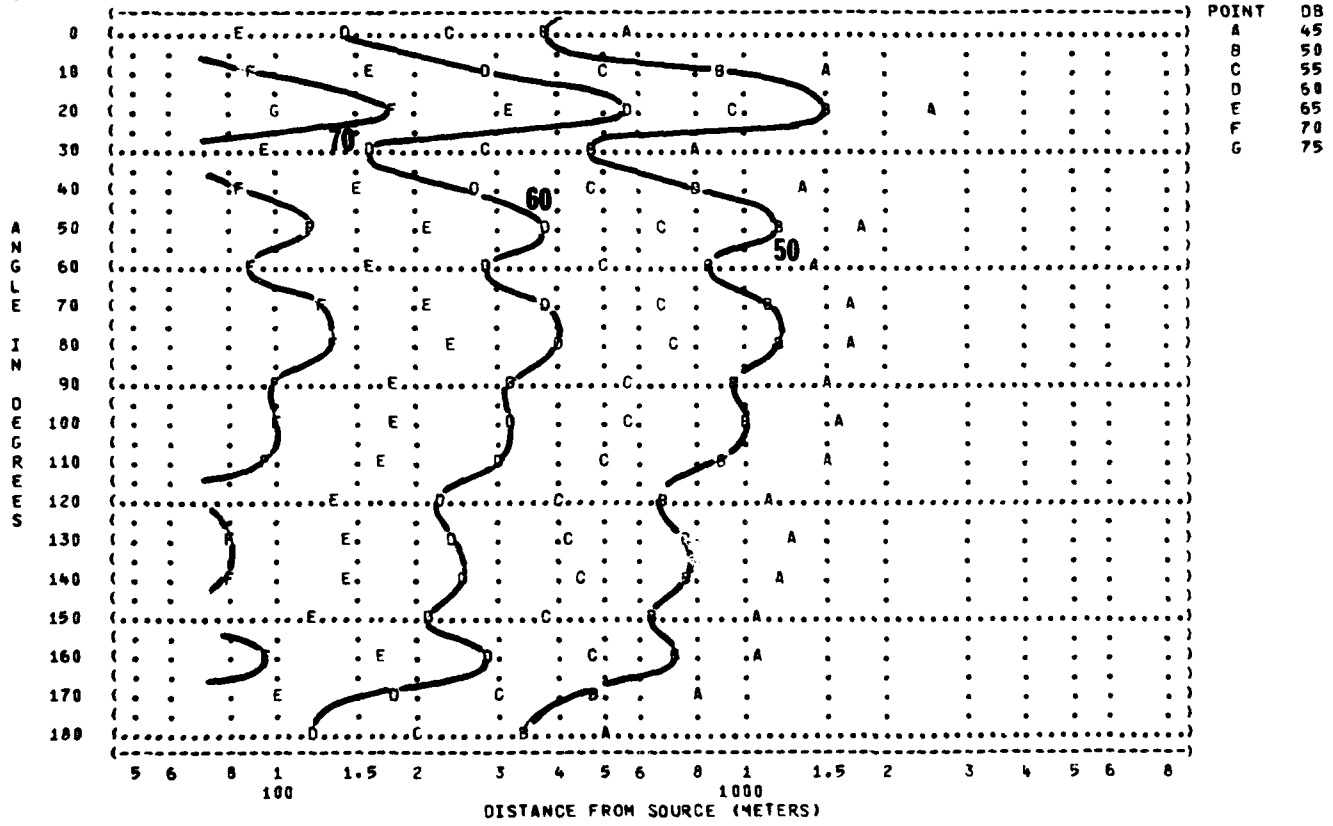
FIGURE: 3.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 01
26 OCT 81
PAGE 13

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75

AD-A118 773 AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATT--ETC F/G 20/1
USAF BIOENVIRONMENTAL NOISE DATA HANDBOOK, VOLUME 172, HUSH-HOU--ETC(U)
JUL 82 R A LEE, T H RAU, C JONES
UNCLASSIFIED AMRL-TR-75-50-VOL-172 NL

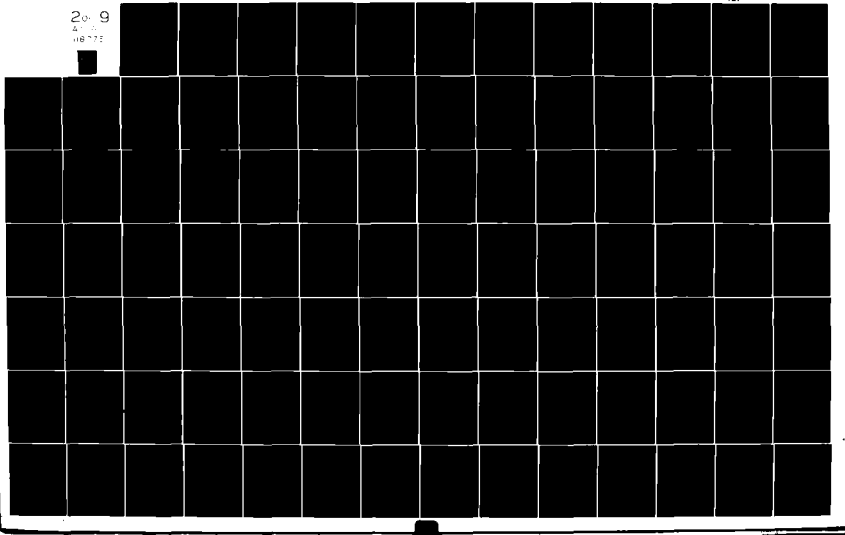


FIGURE: 3.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-704-001
RUN 02
26 OCT 81
PAGE 13

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

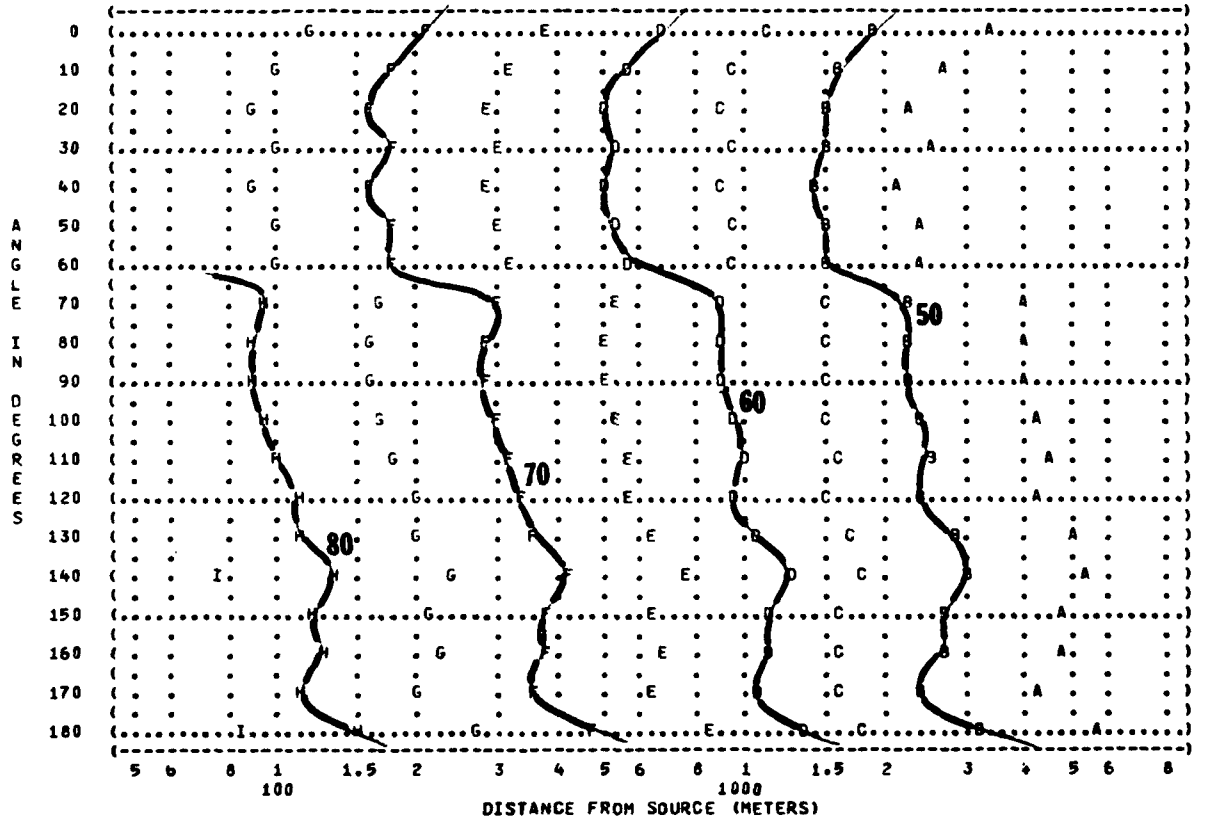


FIGURE 3.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 03
26 OCT 81
PAGE 13

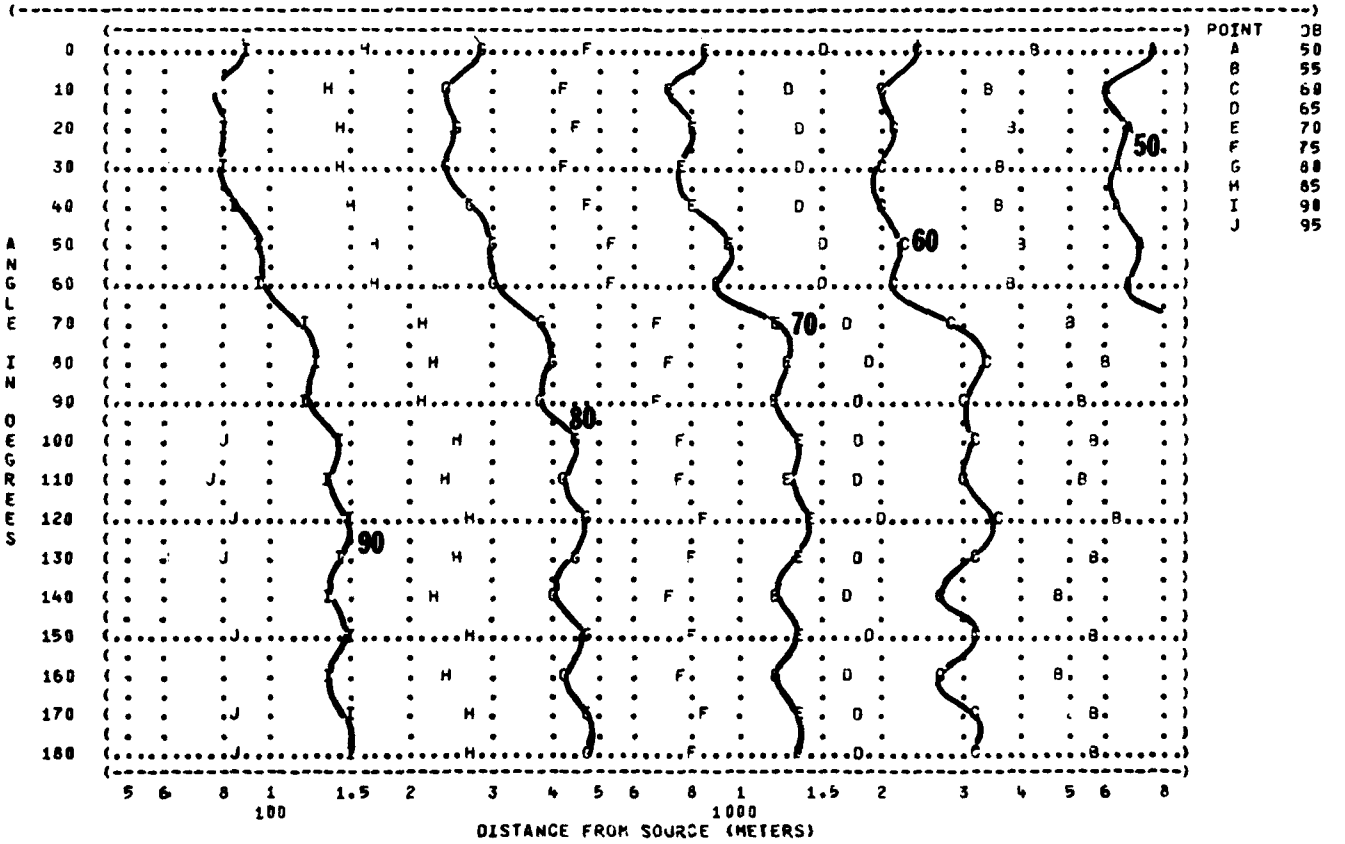


FIGURE 3.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-031
RUN 04
26 OCT 91
PAGE 13

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

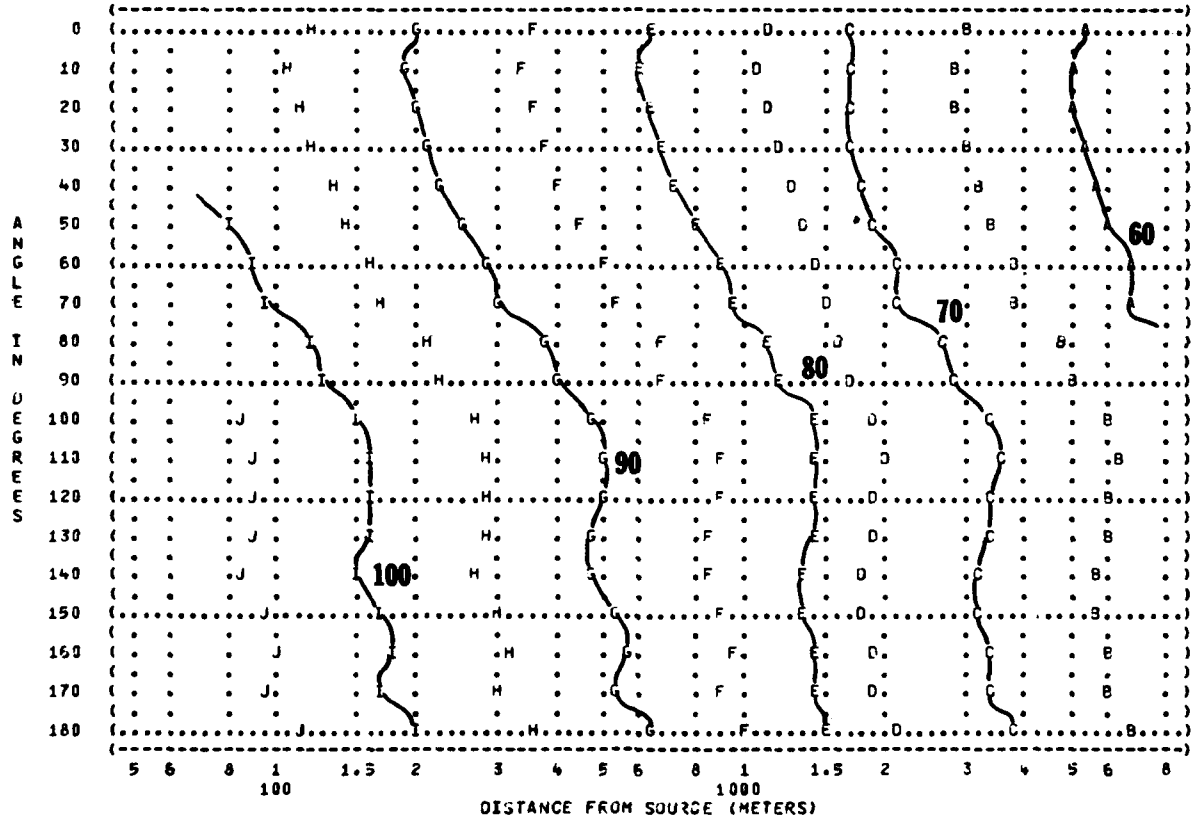


FIGURE 3.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
JUN 01
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70

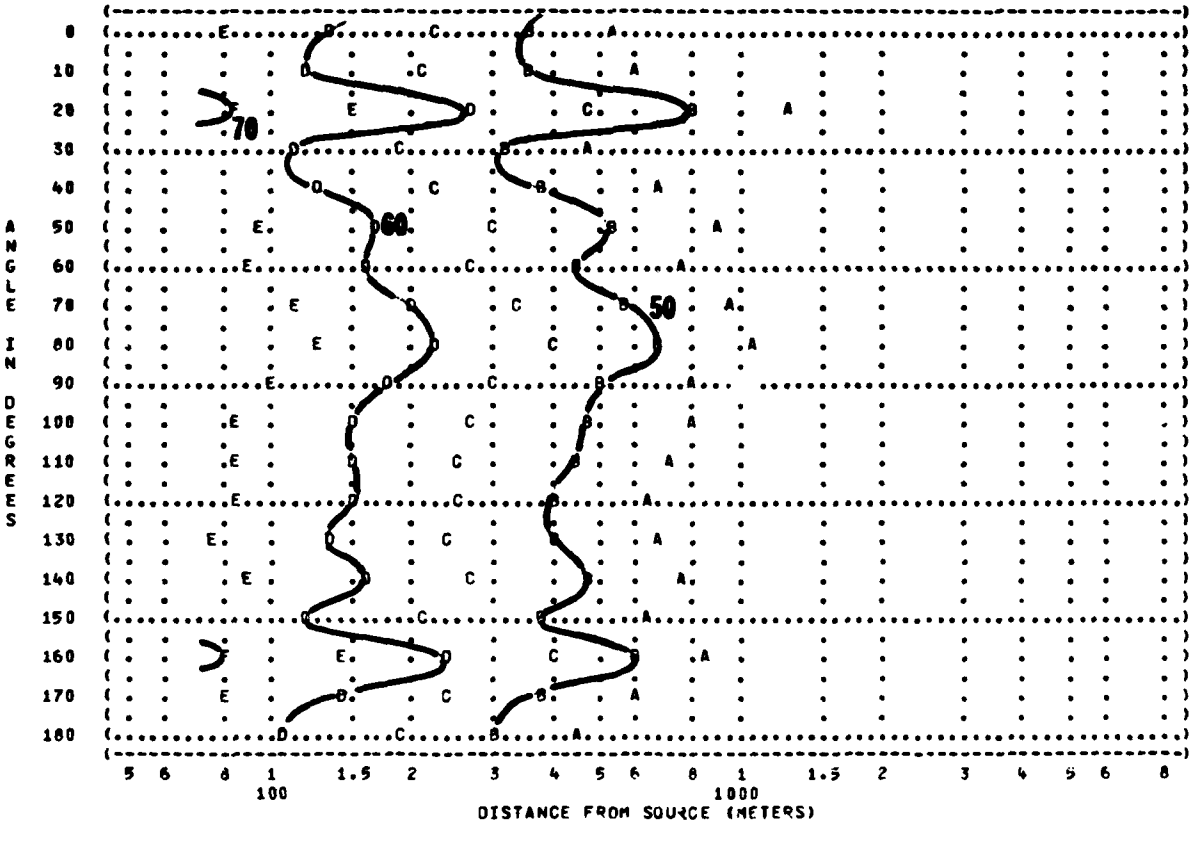


FIGURE 3.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST 8F-704-001 RUN 02 26 OCT 81 PAGE 14

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

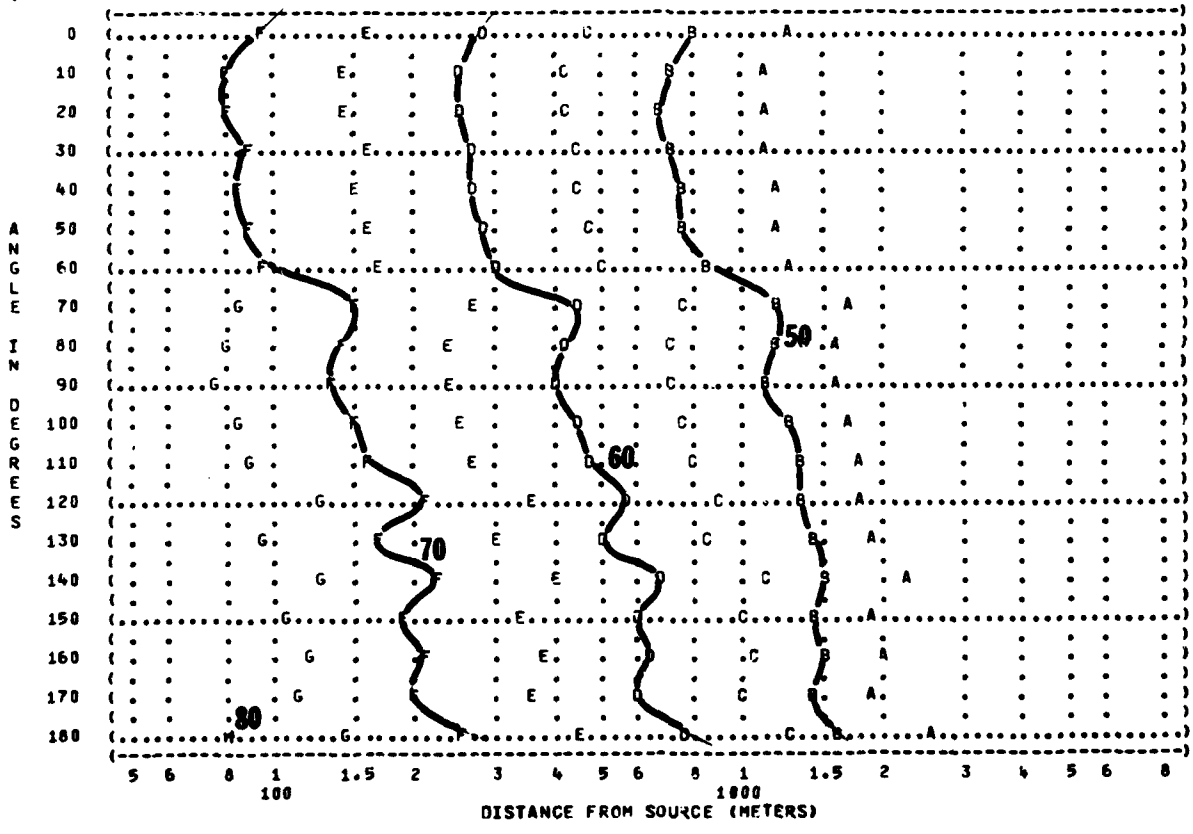


FIGURE 3.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 03
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90

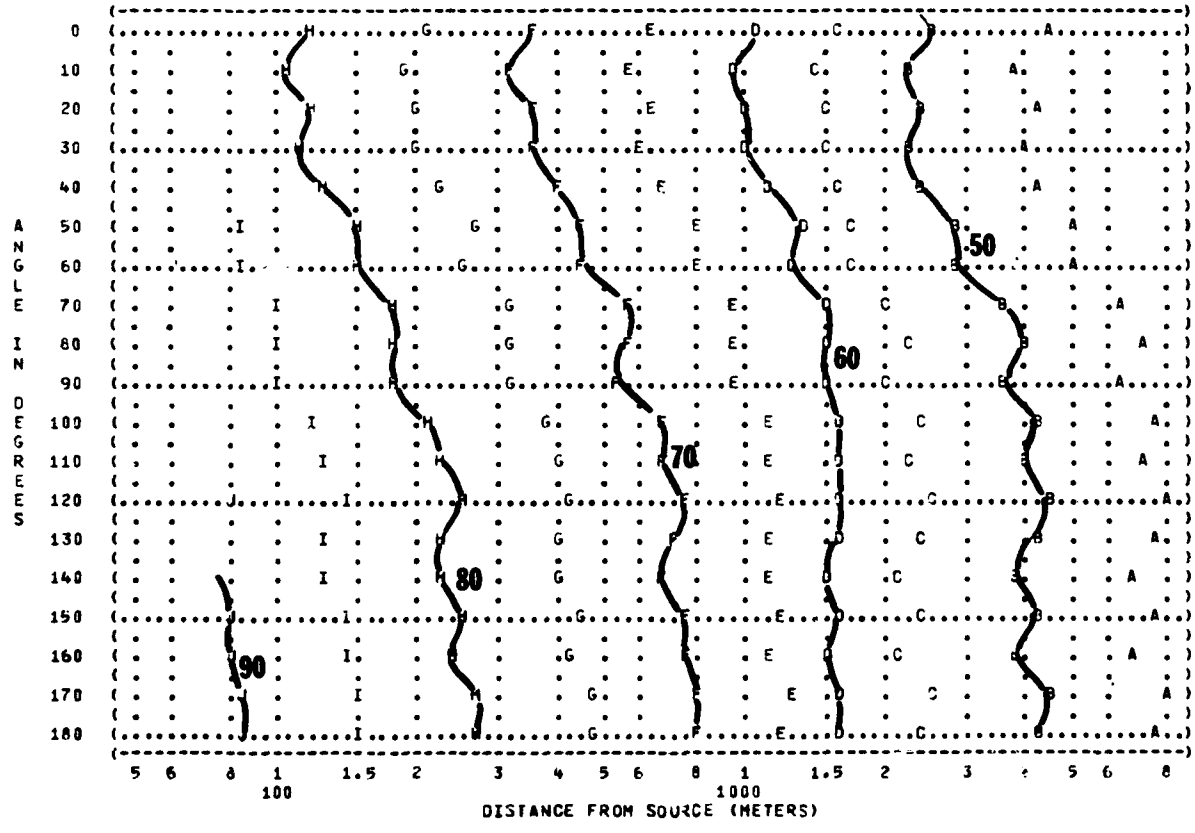


FIGURE: 3.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST BF-784-001
RUN 04
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95
K	100

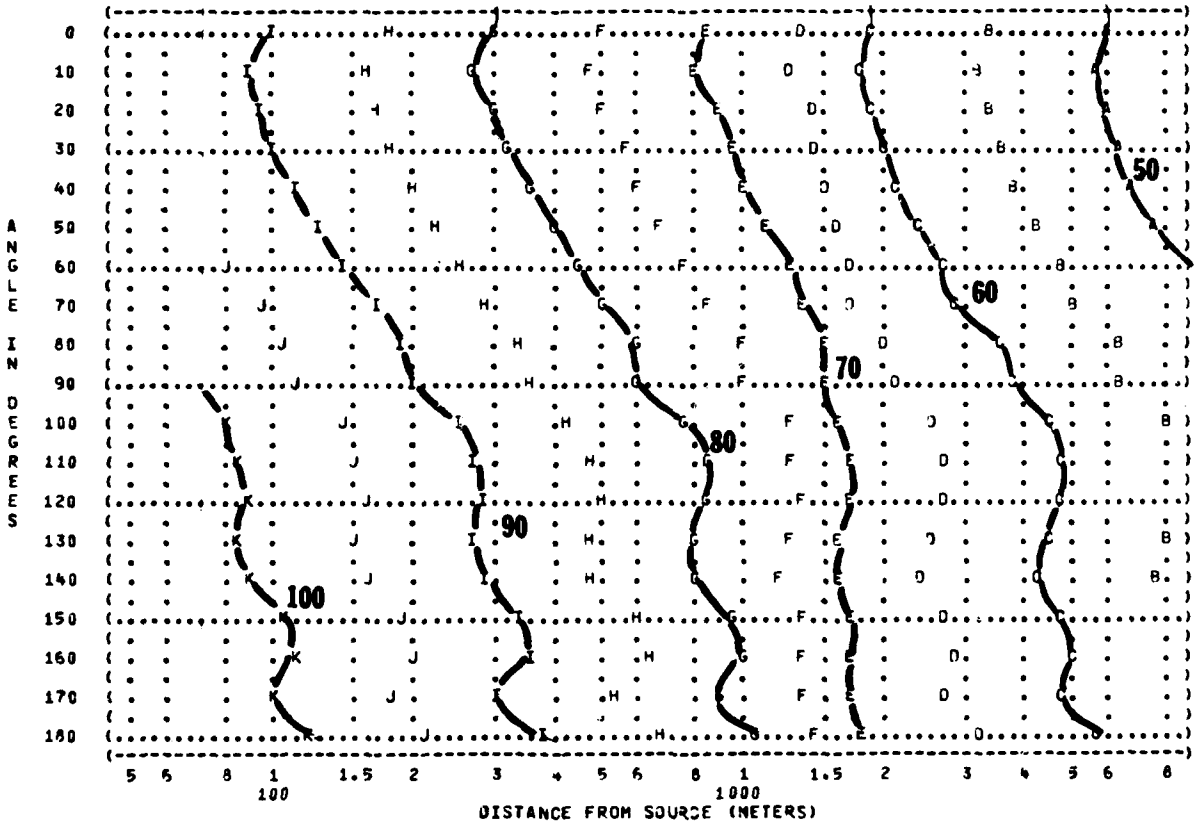


FIGURE 3.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 01
26 OCT 81
PAGE 15

POINT	D3A
A	45
B	50
C	55
D	60

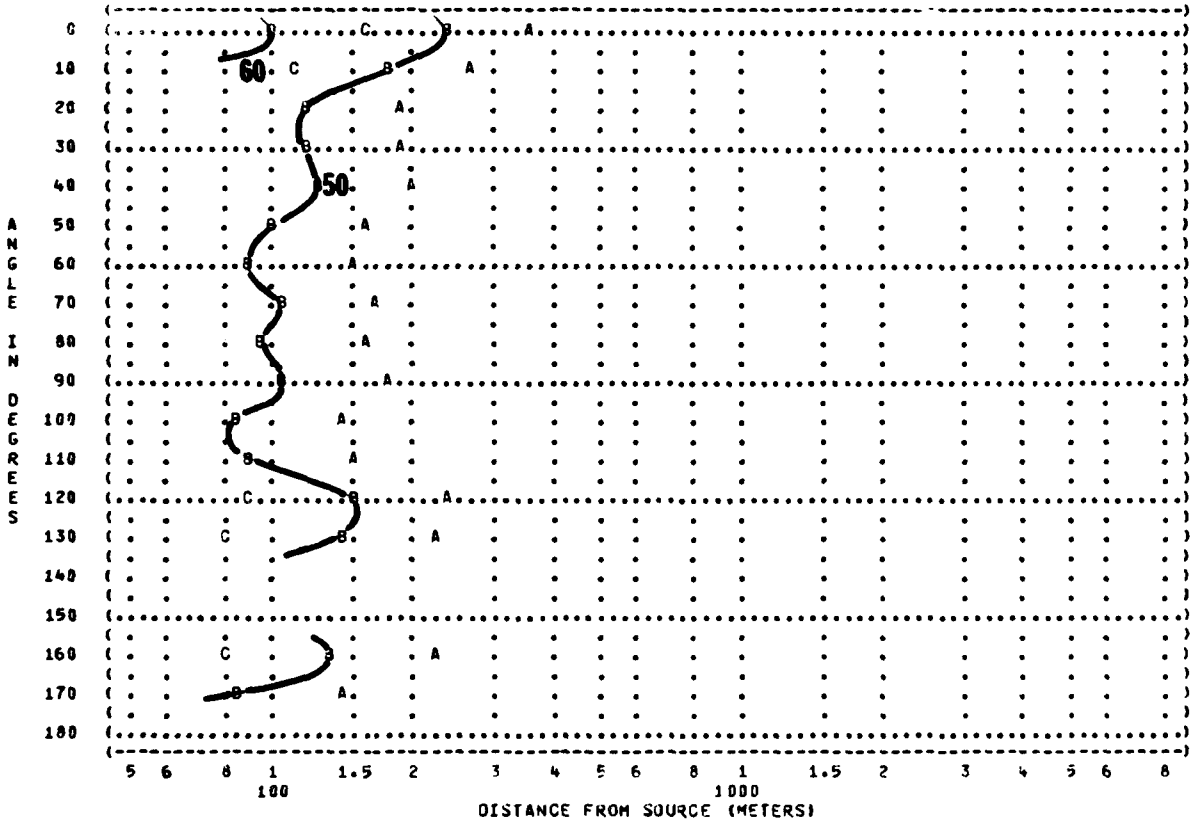


FIGURE 3.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 02
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55

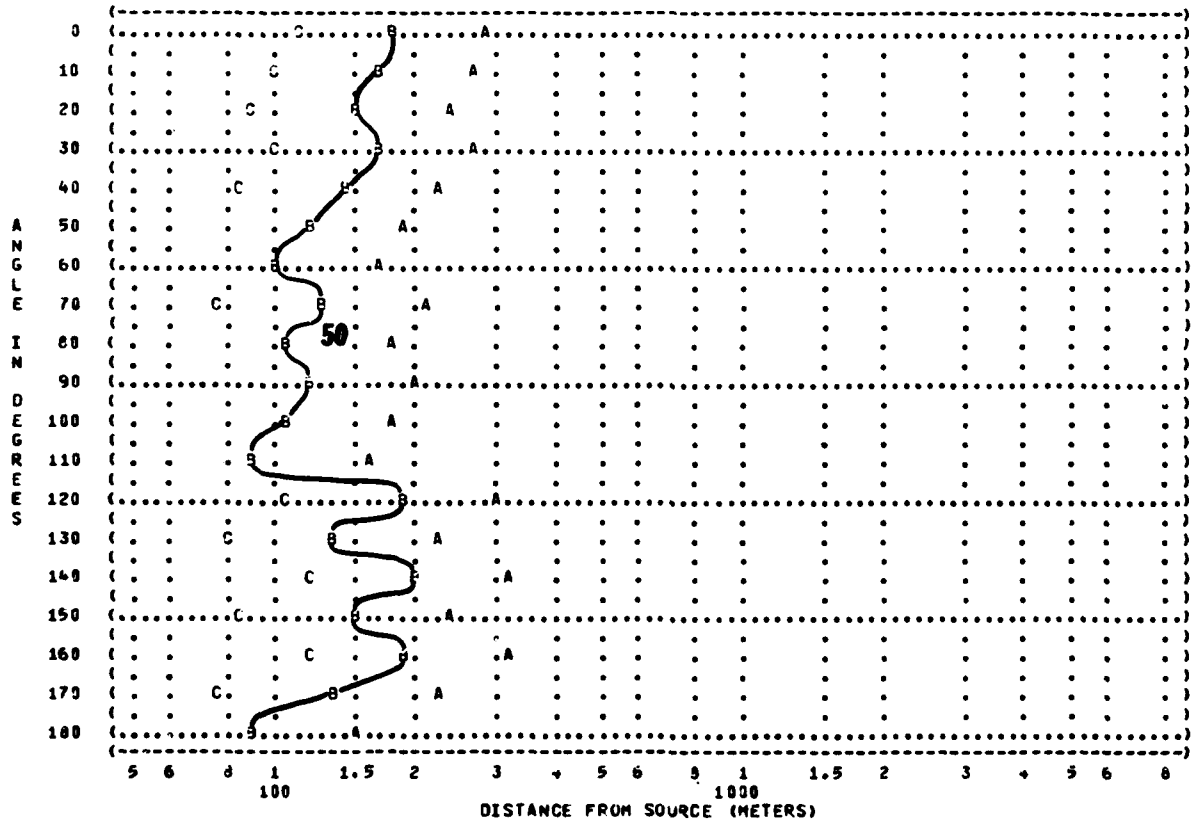


FIGURE: 3.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (OBA)

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 03
26 OCT 81
PAGE 15

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70

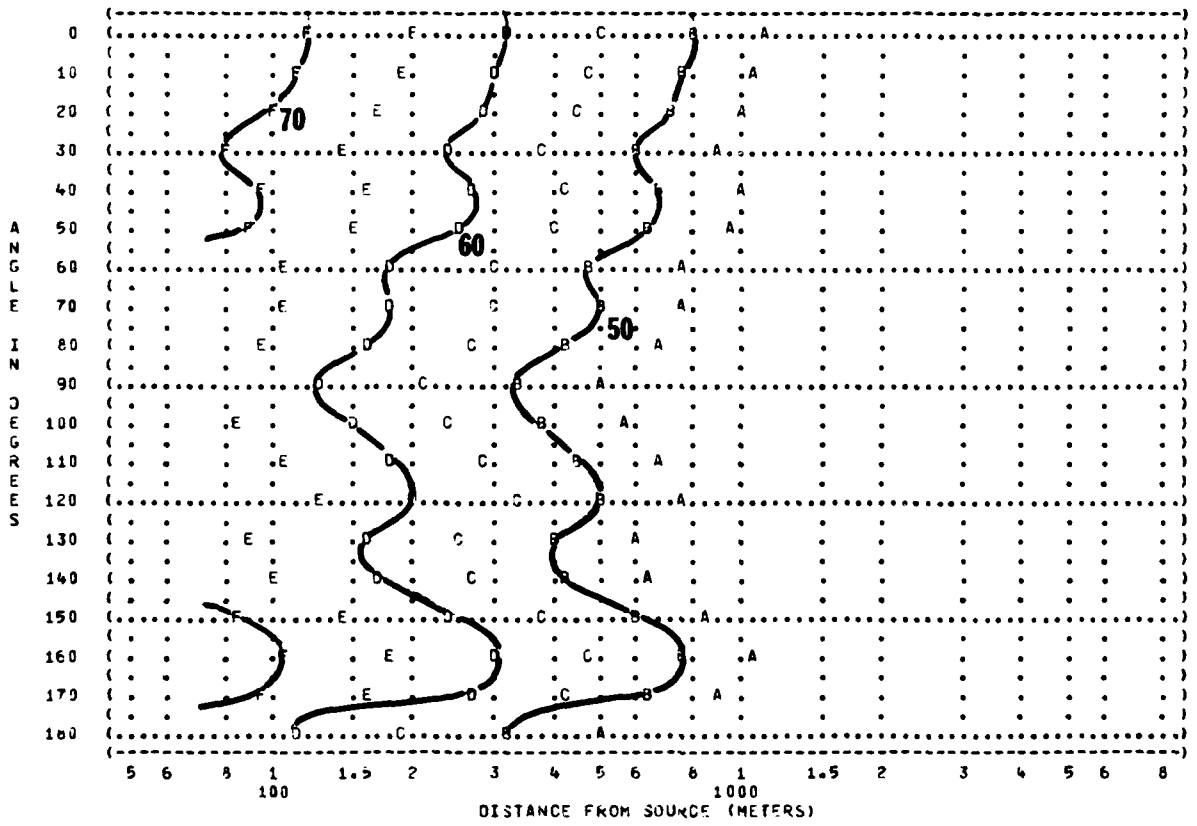


FIGURE: 3.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 04
26 OCT 91
PAGE 15

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

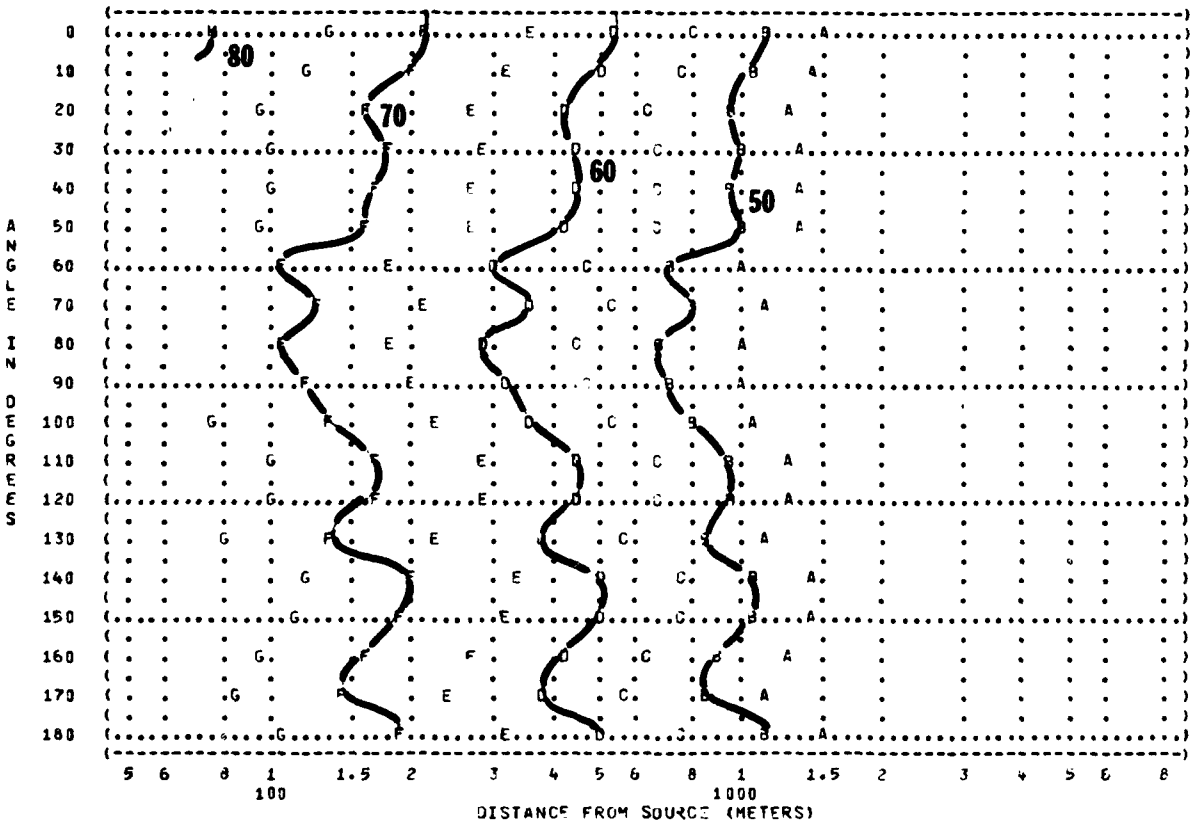


FIGURE 3.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 01
26 OCT 81
PAGE 15

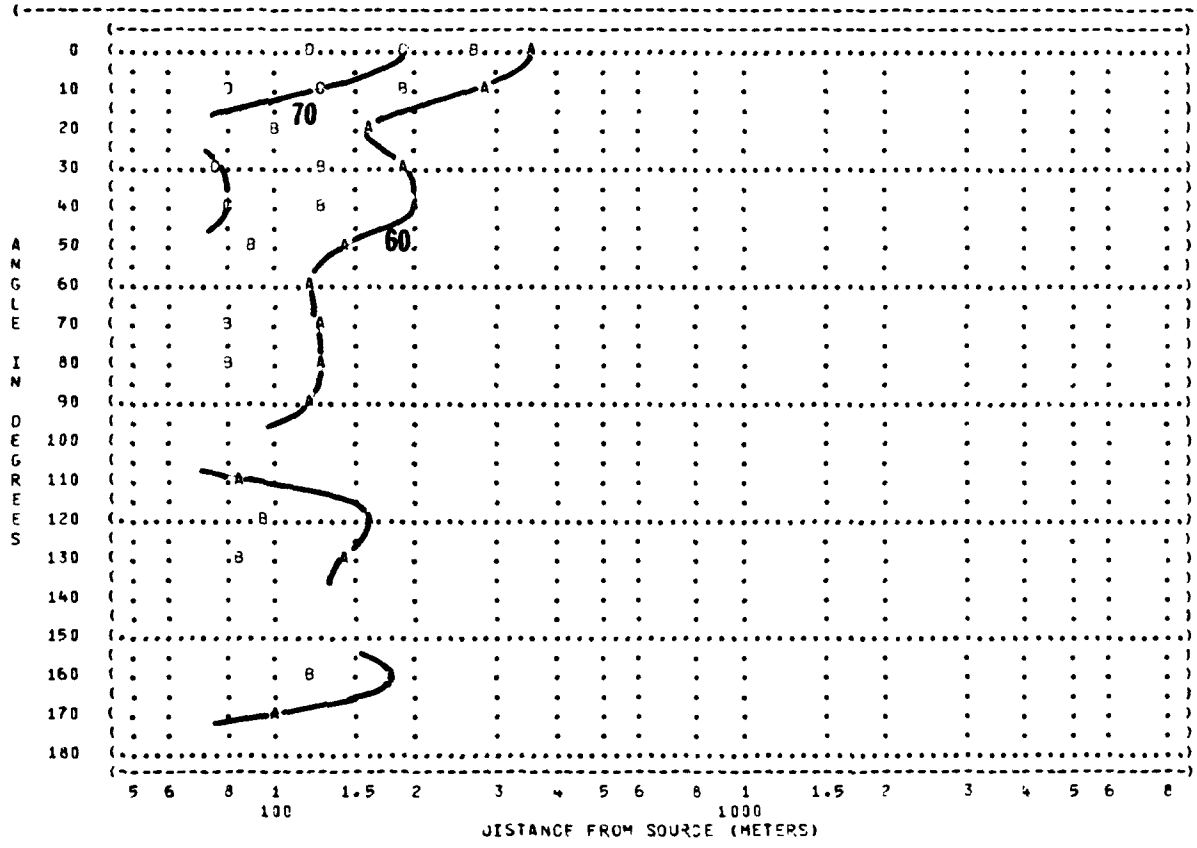


FIGURE: 3.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-784-001
RUN 02
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70

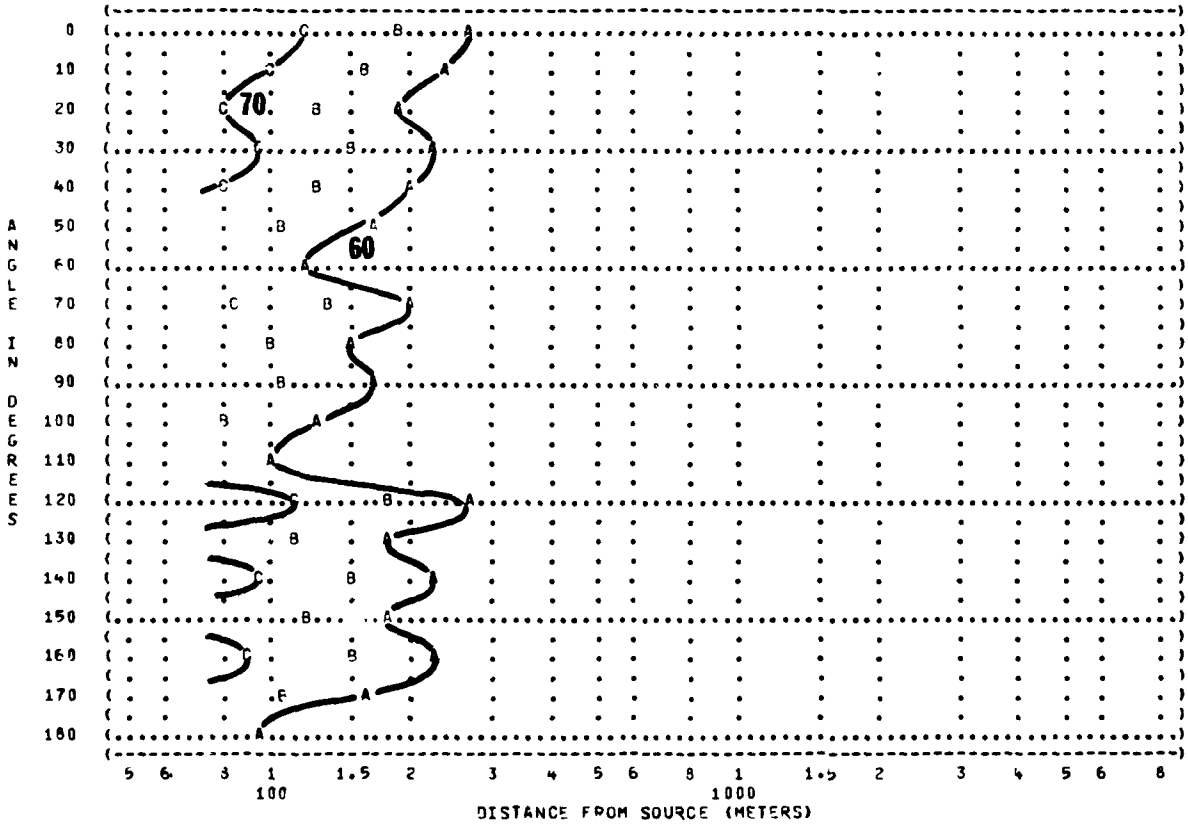


FIGURE 3.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 03
26 OCT 91
PAGE 16

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85

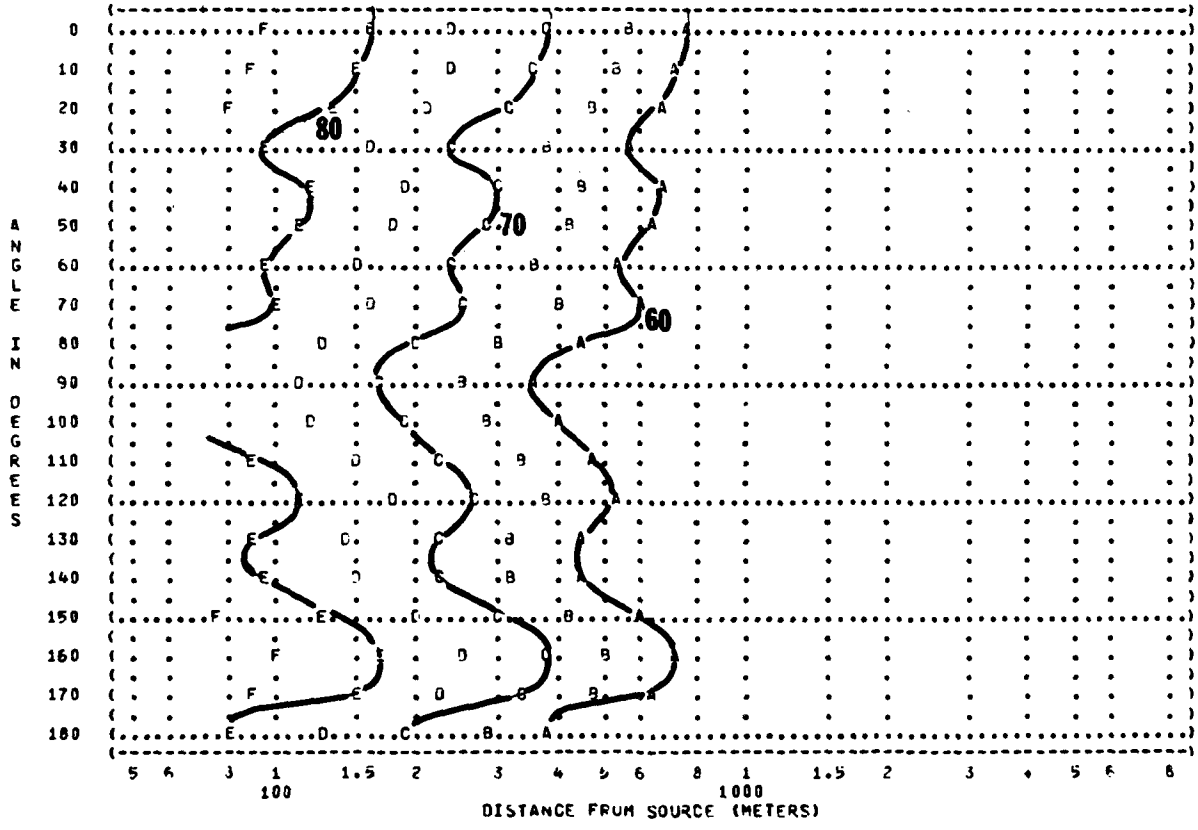


FIGURE 3.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 04
26 OCT 91
PAGE 15

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASF HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95

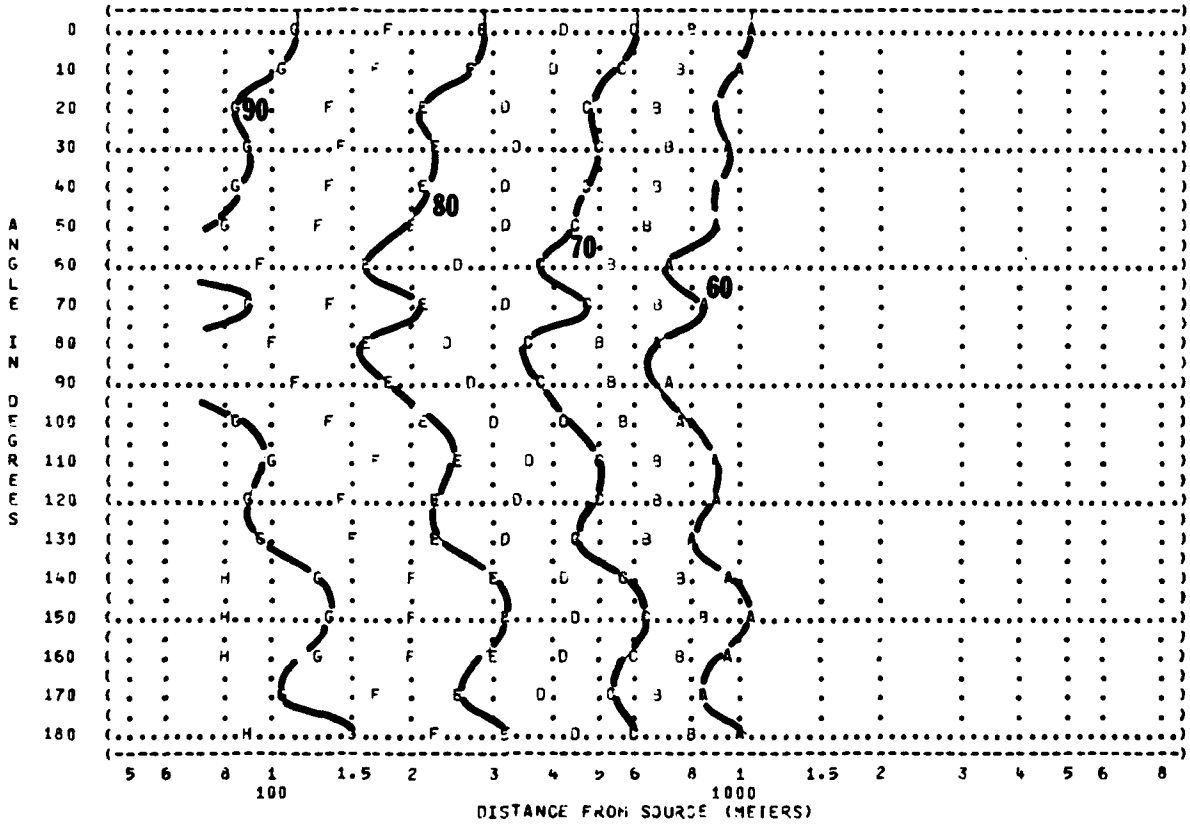


FIGURE 3.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-784-881
RUN 01
26 OCT 81
PAGE 17

POINT DB
A 35
B 40
C 45
D 50

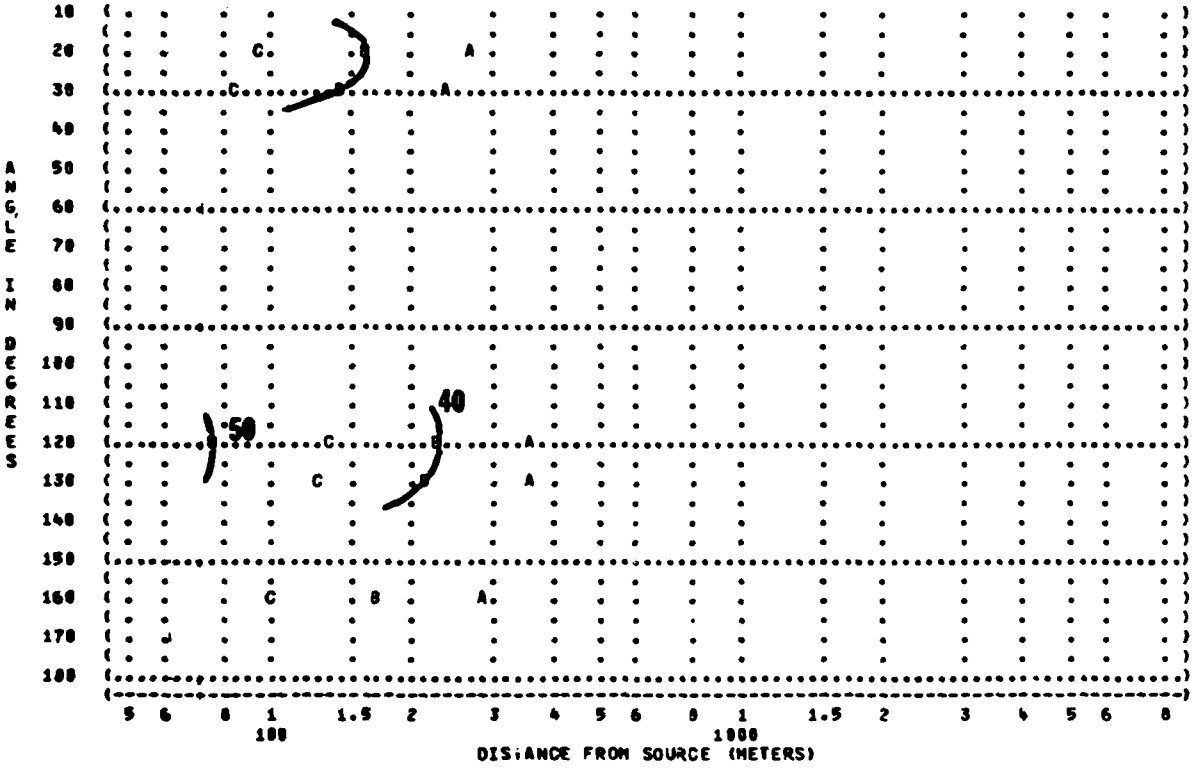


FIGURE: 3.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-784-001
RUN 02
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

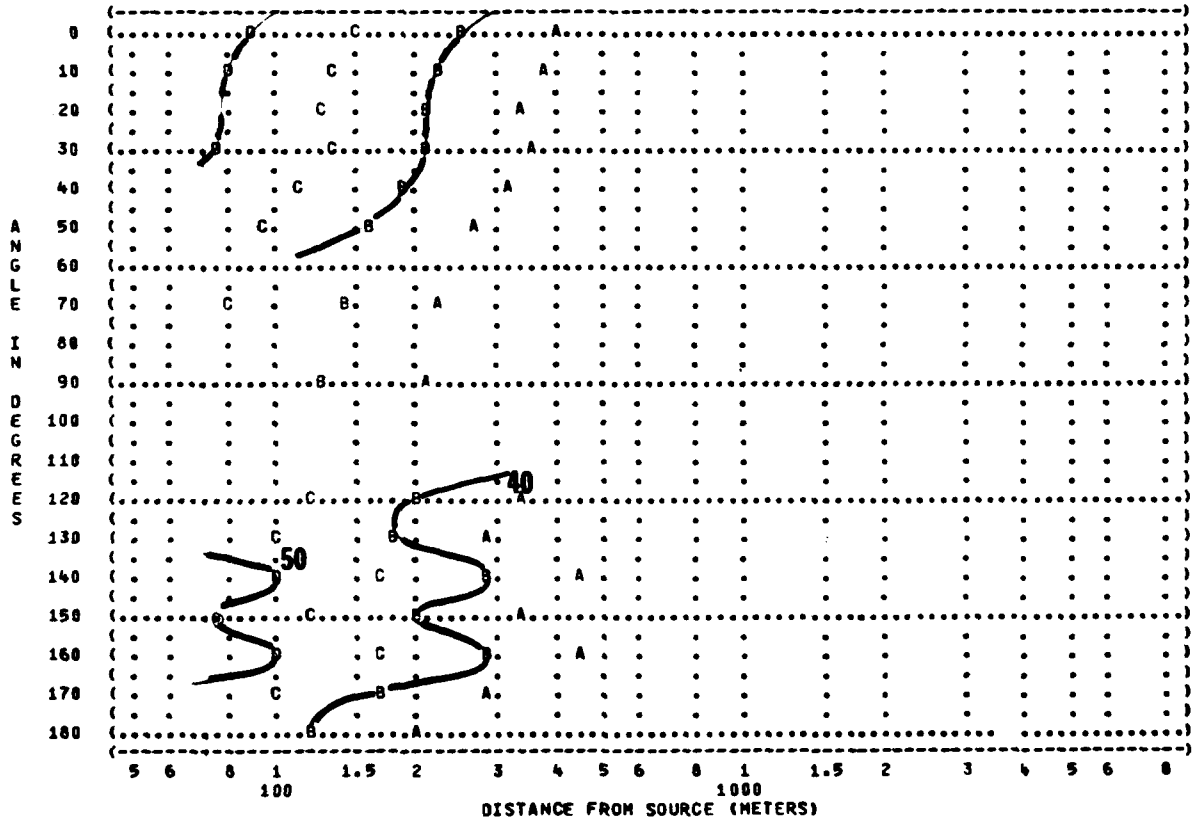


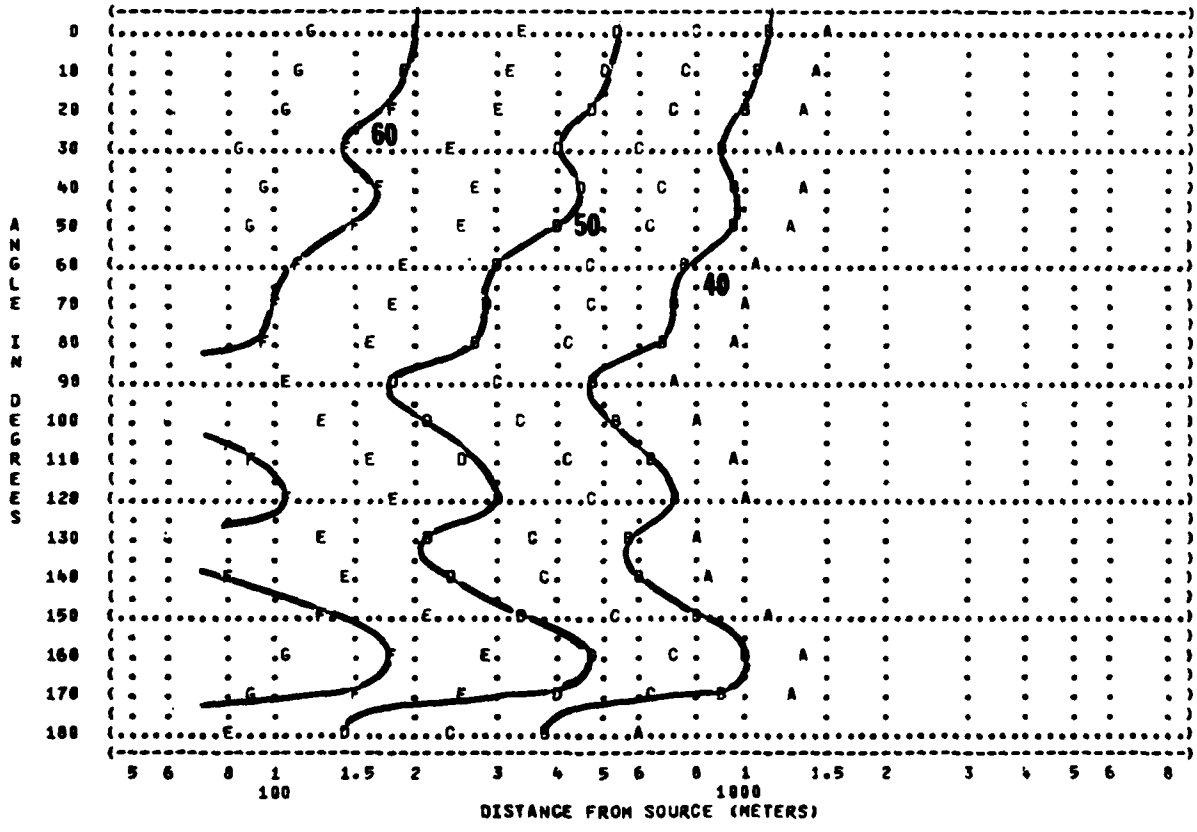
FIGURE: 3.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATIONS:
OMEGA 1.4
TEST BF-704-001
RUN 03
26 OCT 81
PAGE 17



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

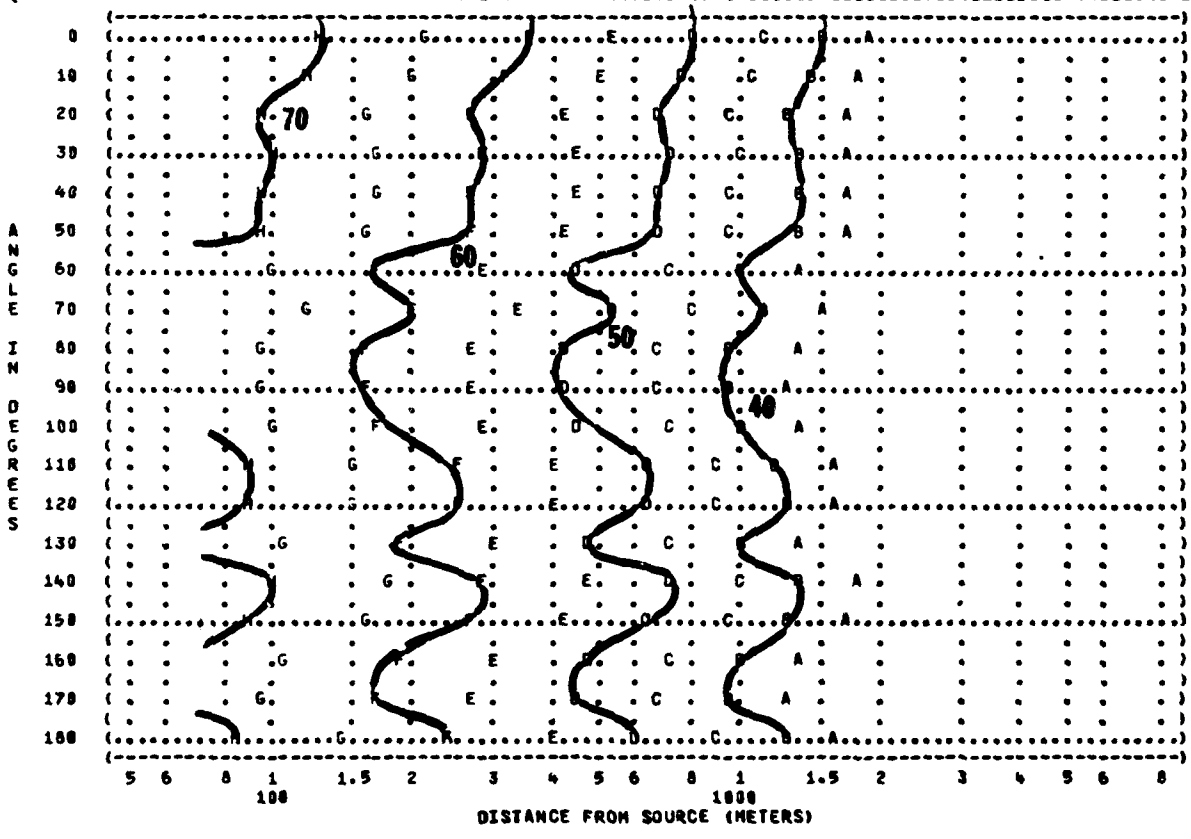
FIGURE 3.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-784-081
RUN 84
26 OCT 81
PAGE 17



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE 3.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-881
RUN 81
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M MG
REL HUMID = 70 %

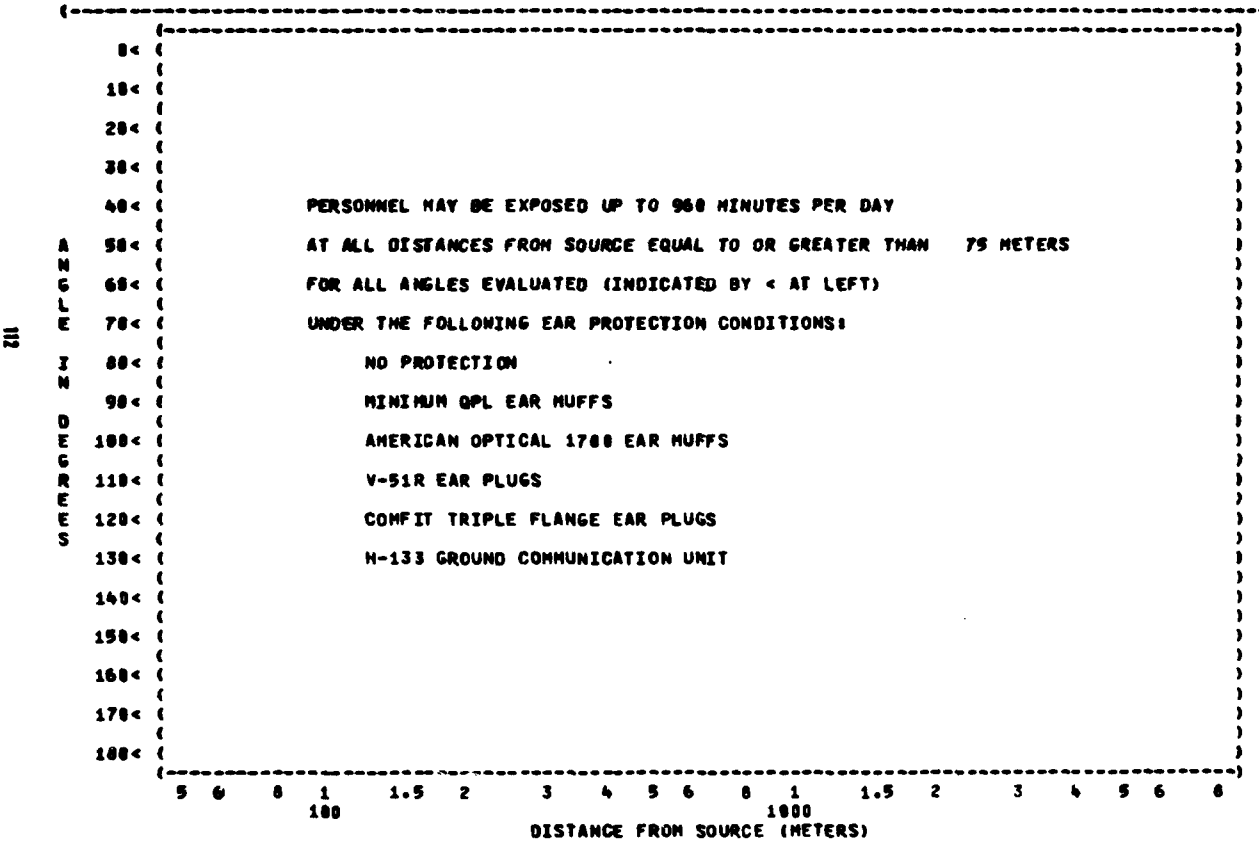


FIGURE 3.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-784-881
RUN 02
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

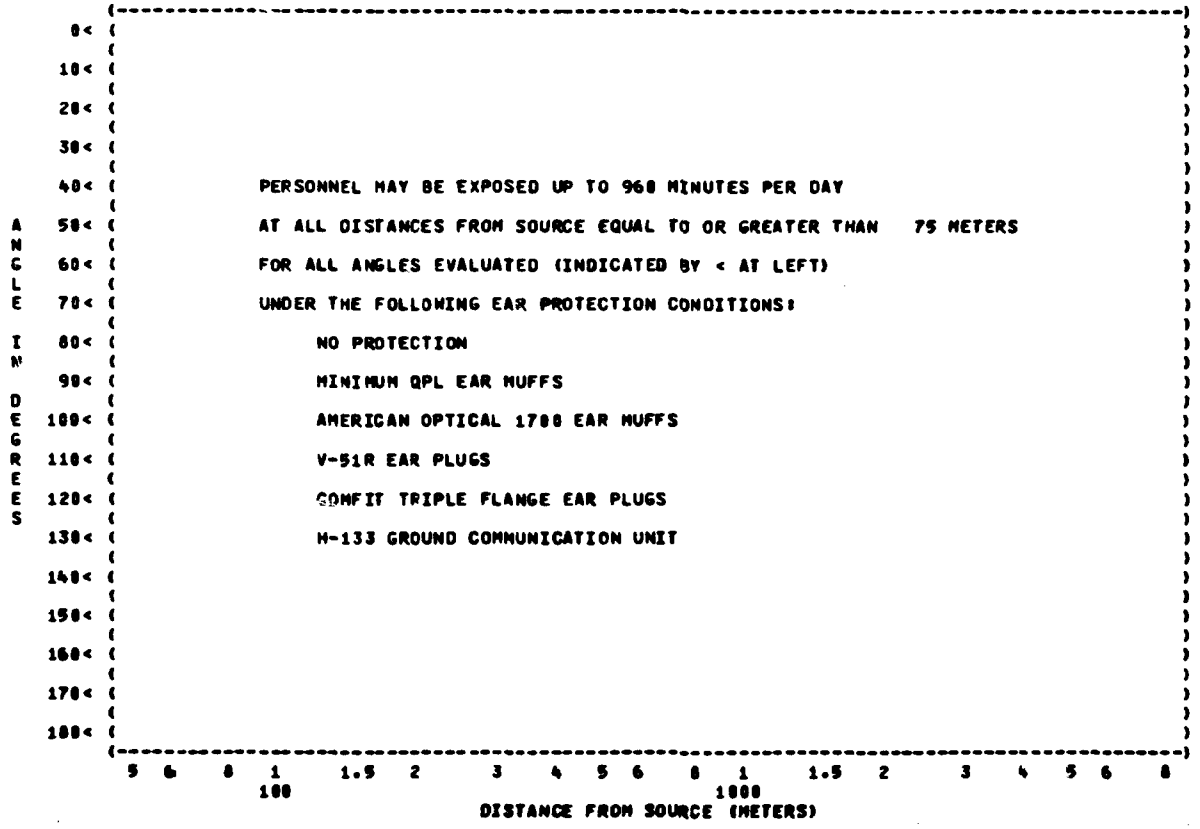


FIGURE: 3.7	MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)	IDENTIFICATION:
NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE	OPERATION: MILITARY POWER (92%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %	OMEGA 1.4 TEST BF-784-001 RUN 03 26 OCT 81 PAGE 7

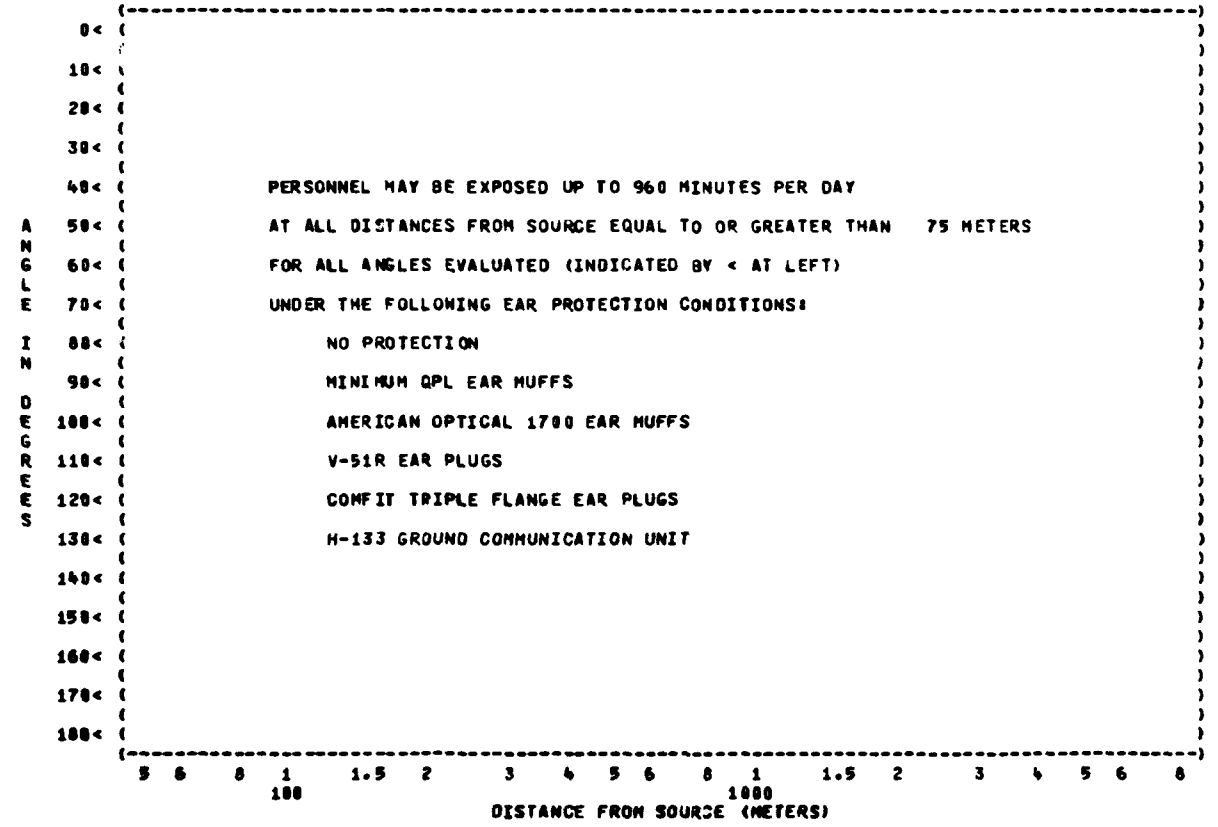


FIGURE: 3.7	MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)	IDENTIFICATION:
NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE	OPERATION: AFTERBURNER POWER (92%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %	OMEGA 1.4 TEST BF-784-881 RUN 04 26 OCT 81 PAGE 7

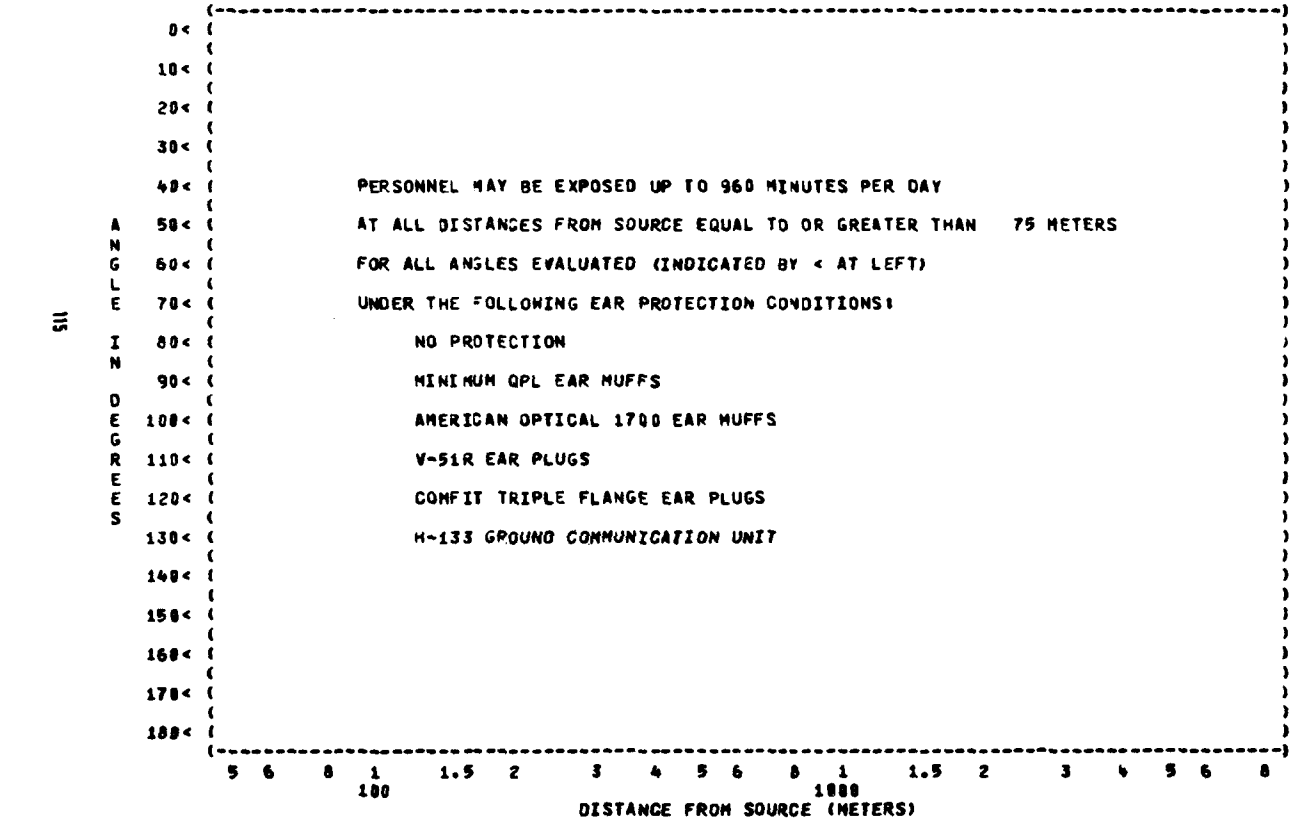


FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

OPERATION: IDLE POWER (60%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-784-081 RUN 01 26 OCT 81 PAGE 18

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

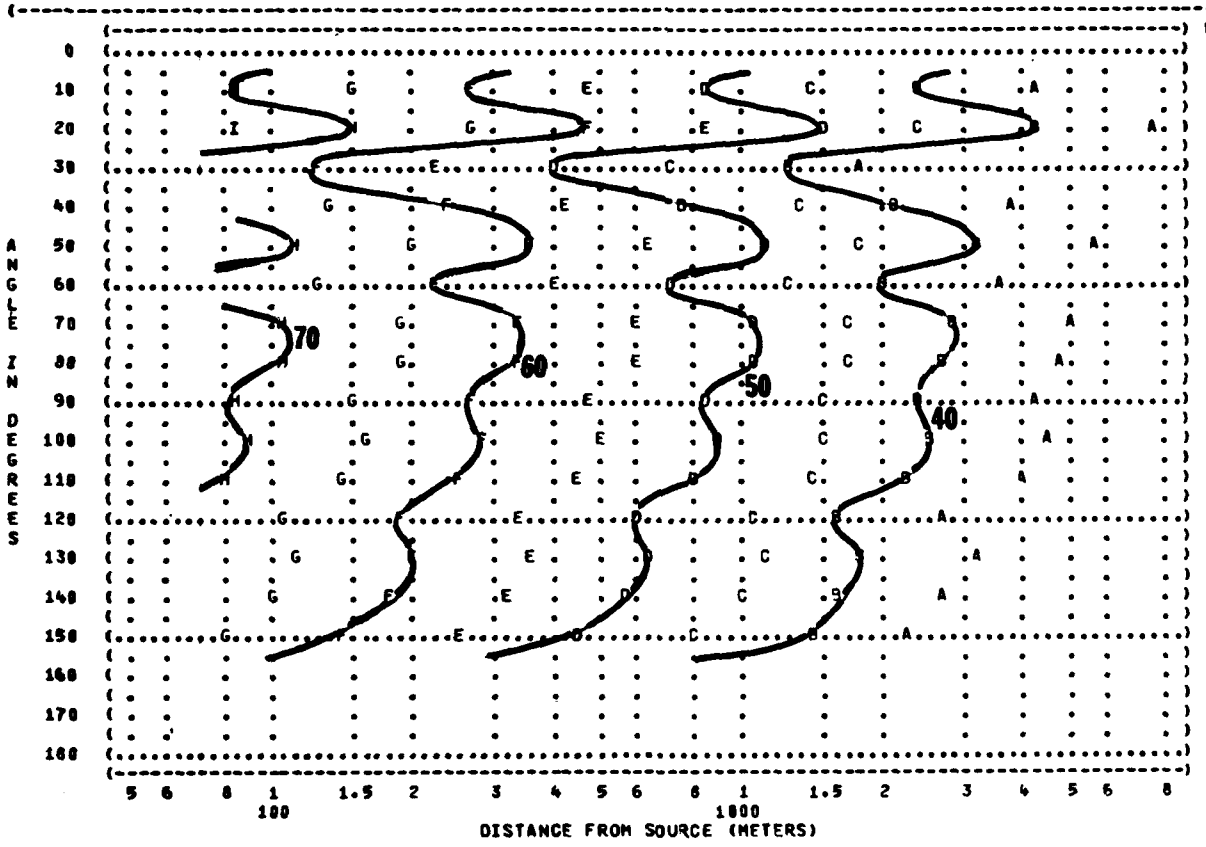


FIGURE 3.8 SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST 8F-704-001 RUN 01 26 OCT 81 PAGE 19

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

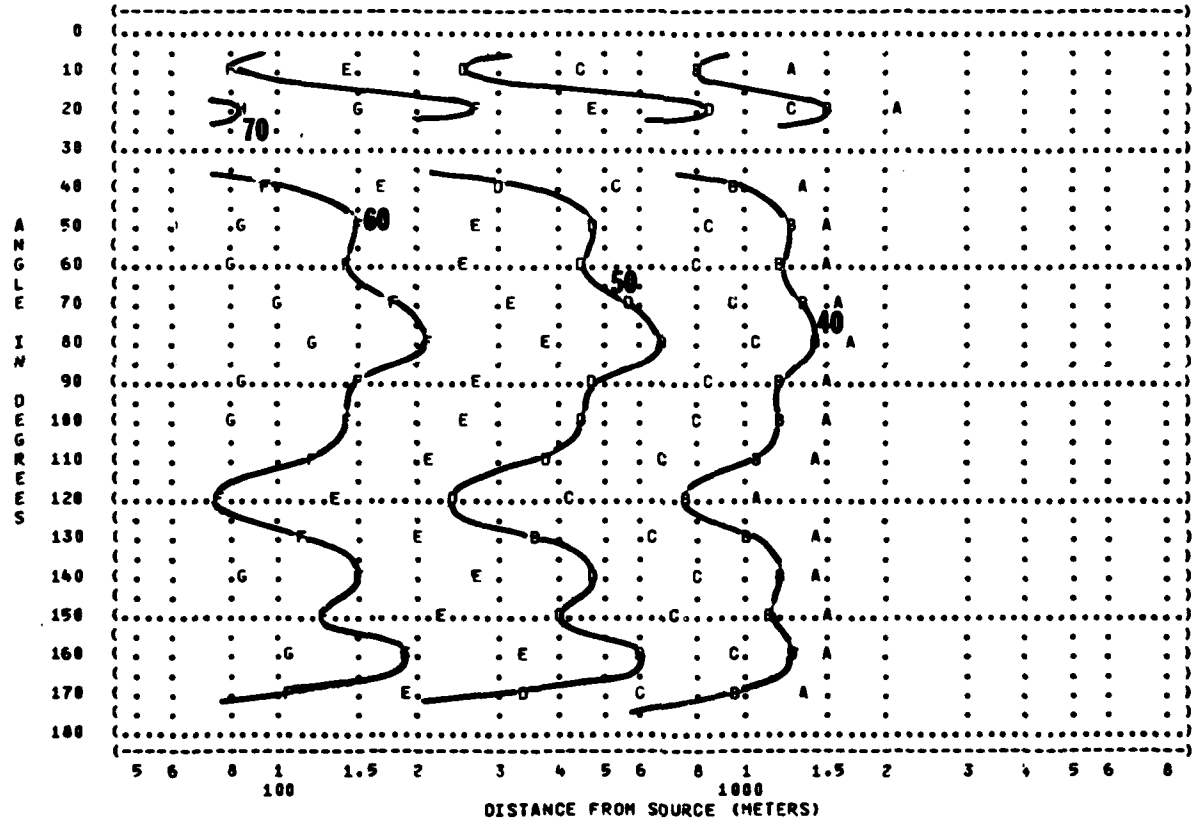


FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-704-001 RUN 01 26 OCT 81 PAGE 20

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

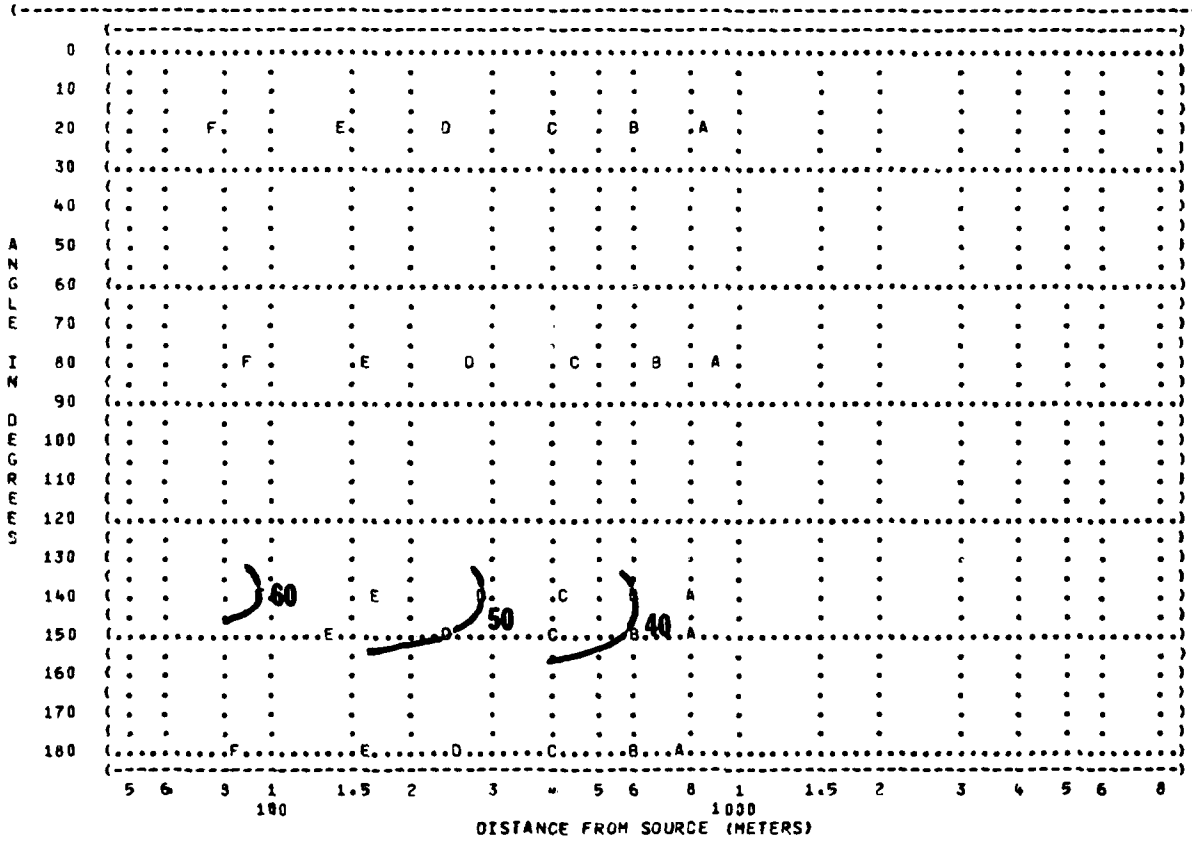


FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-704-001 RUN 01 26 OCT 81 PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

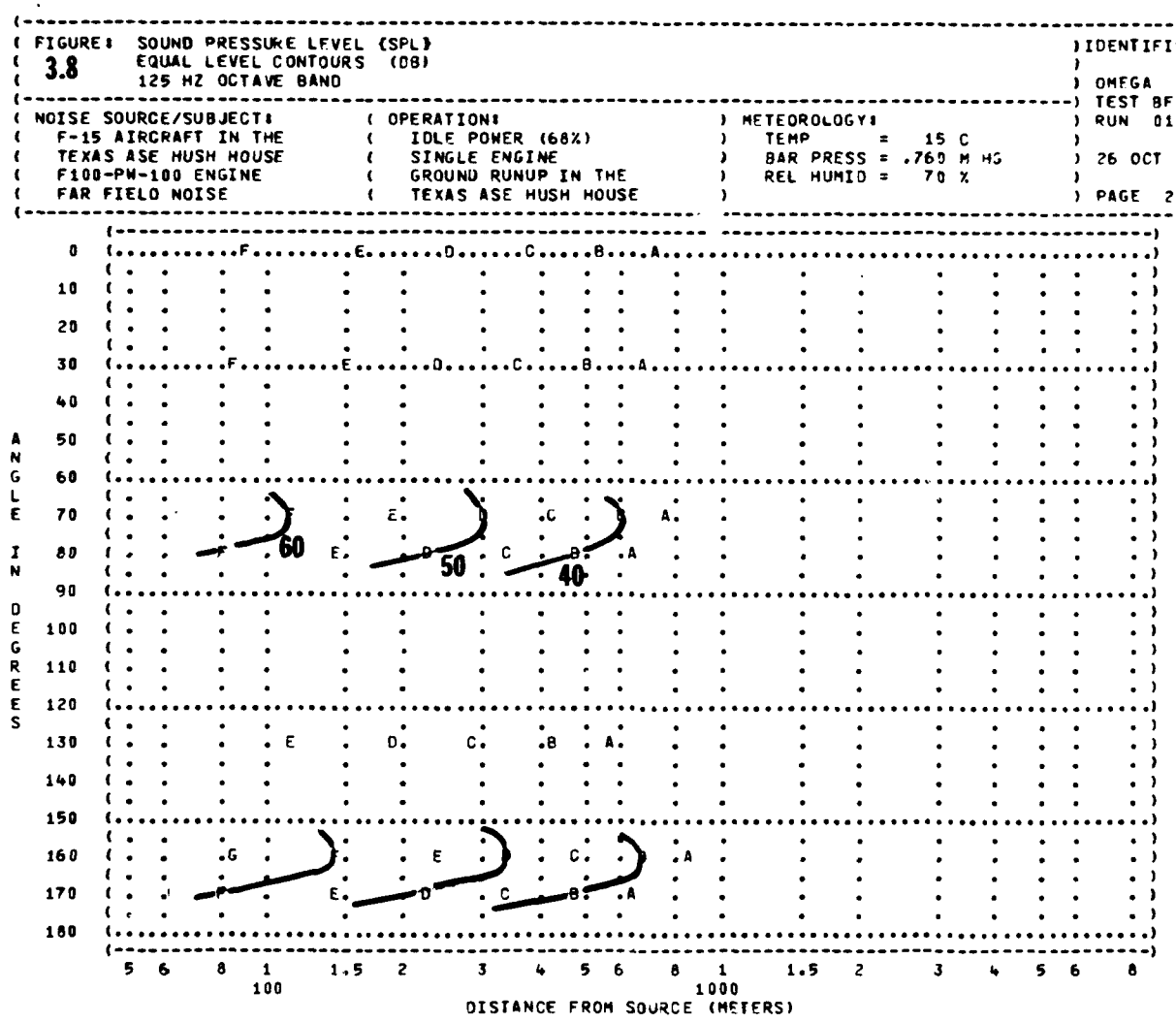


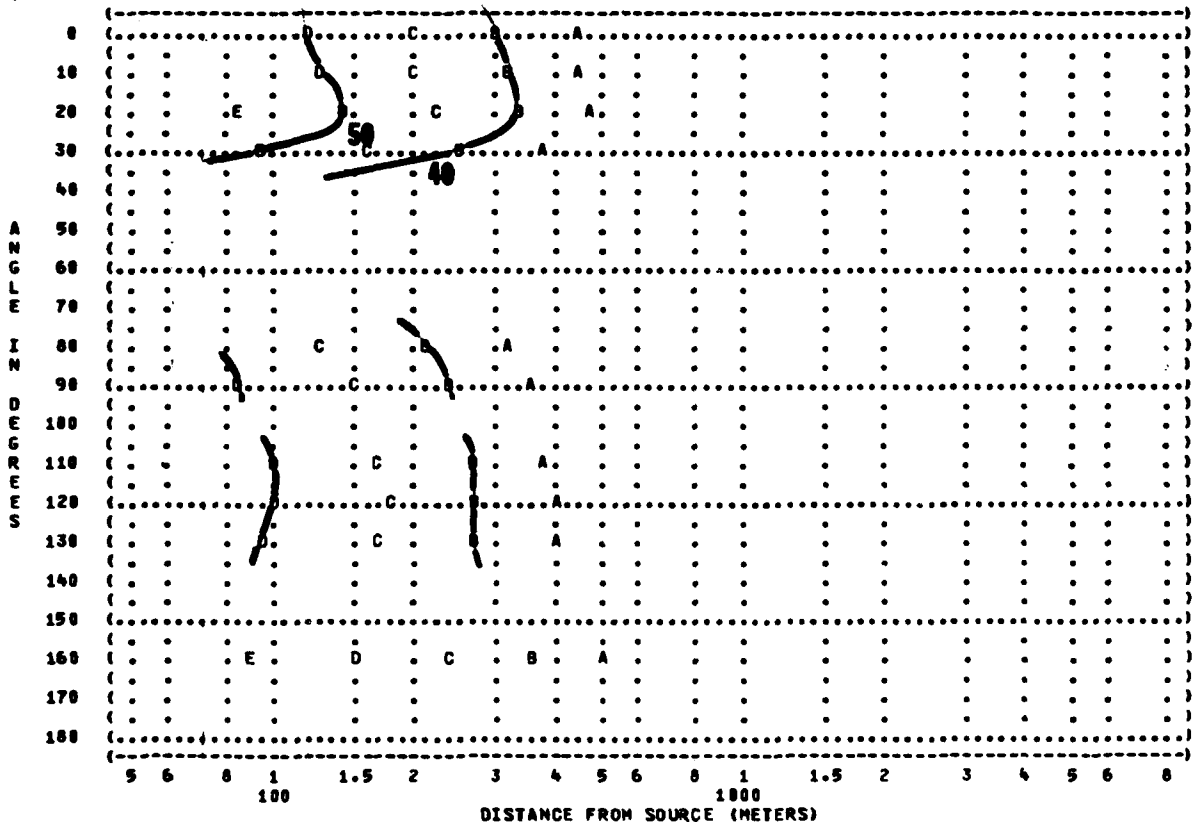
FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 01
26 OCT 81
PAGE 22



POINT	DB
A	35
B	40
C	45
D	50
E	55

FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:
F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE	IDLE POWER (68%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 01
26 OCT 81
PAGE 23

POINT	DB
A	35
B	40
C	45

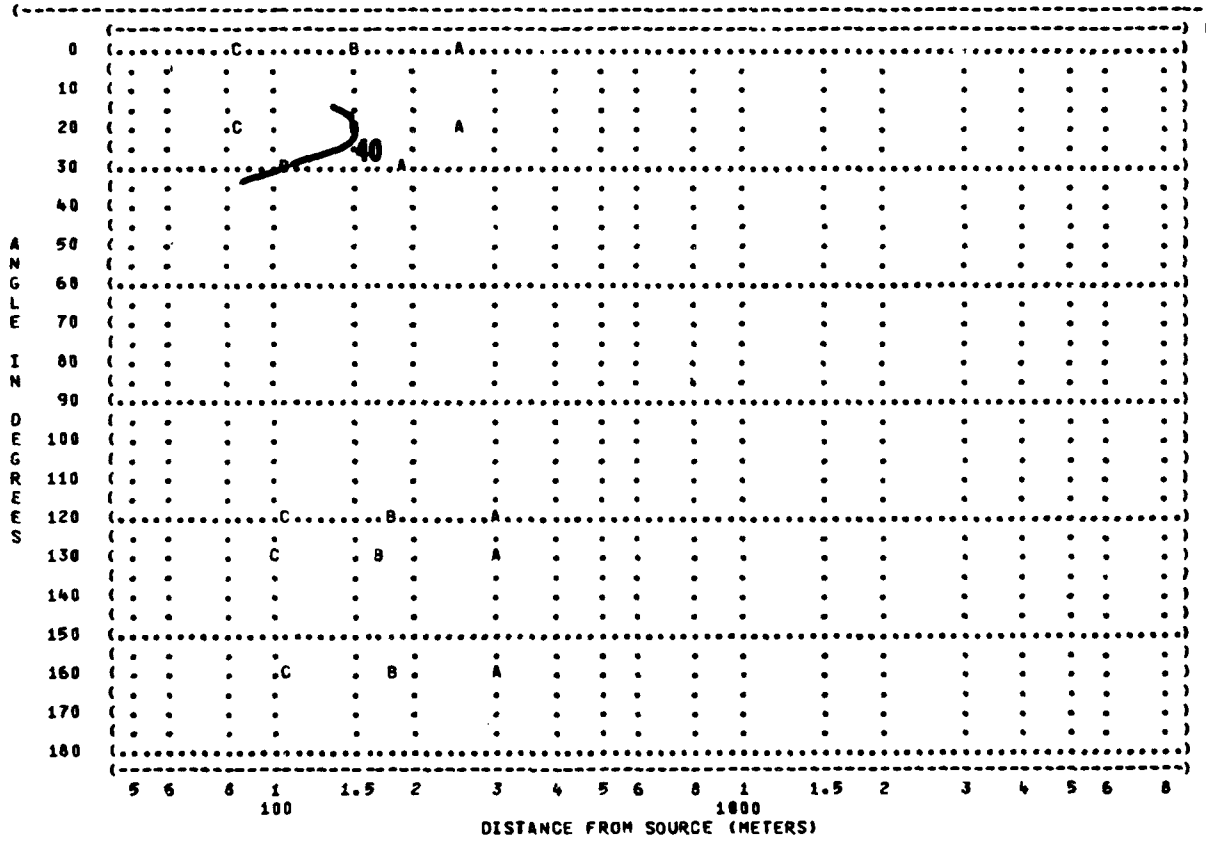


FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-704-001 RUN 01 26 OCT 81 PAGE 24

POINT	DB
A	35
B	40
C	45
D	50

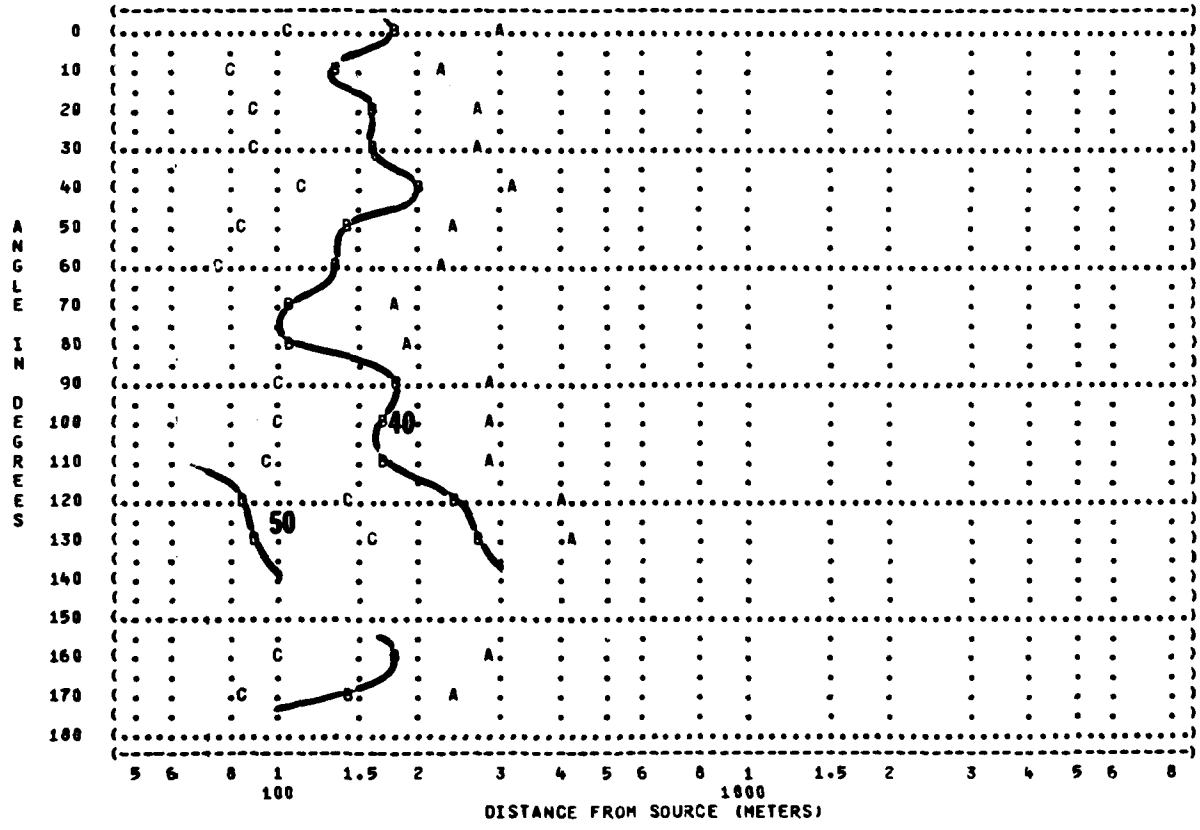


FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-784-881 RUN 01 26 OCT 81 PAGE 25

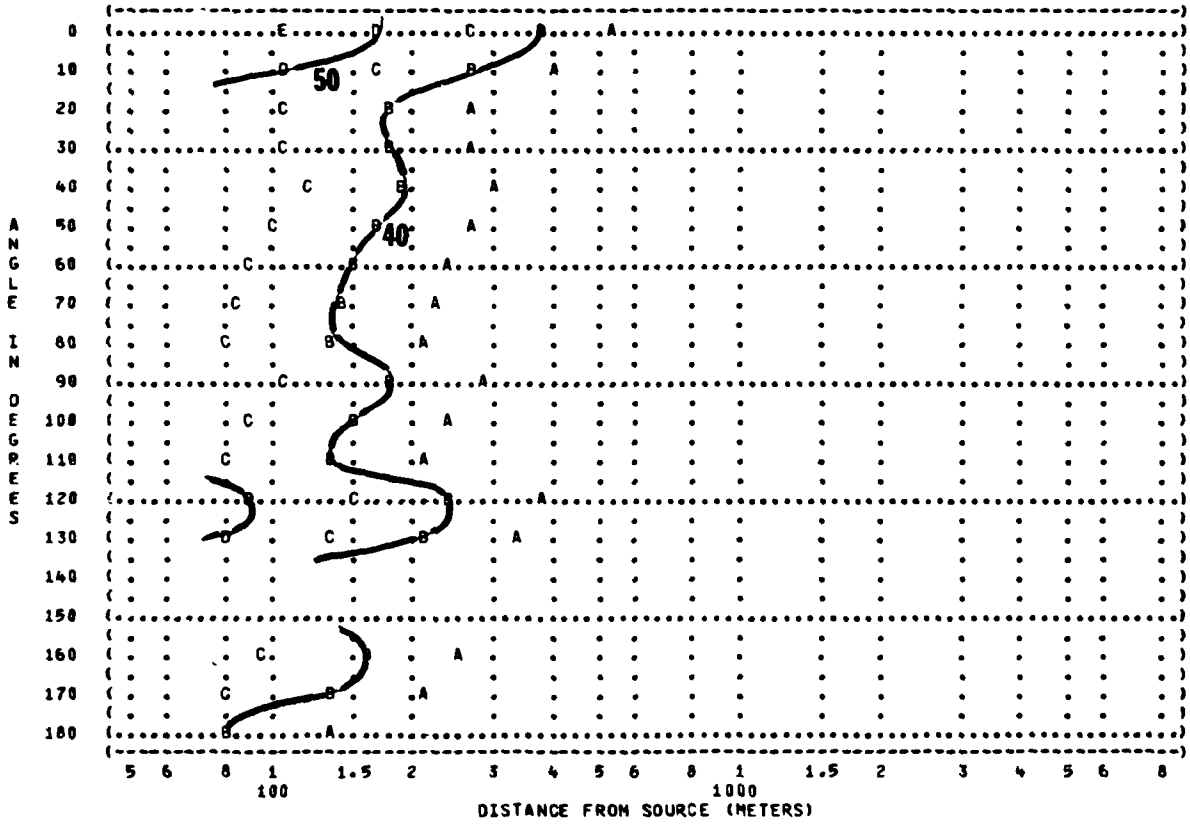


FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

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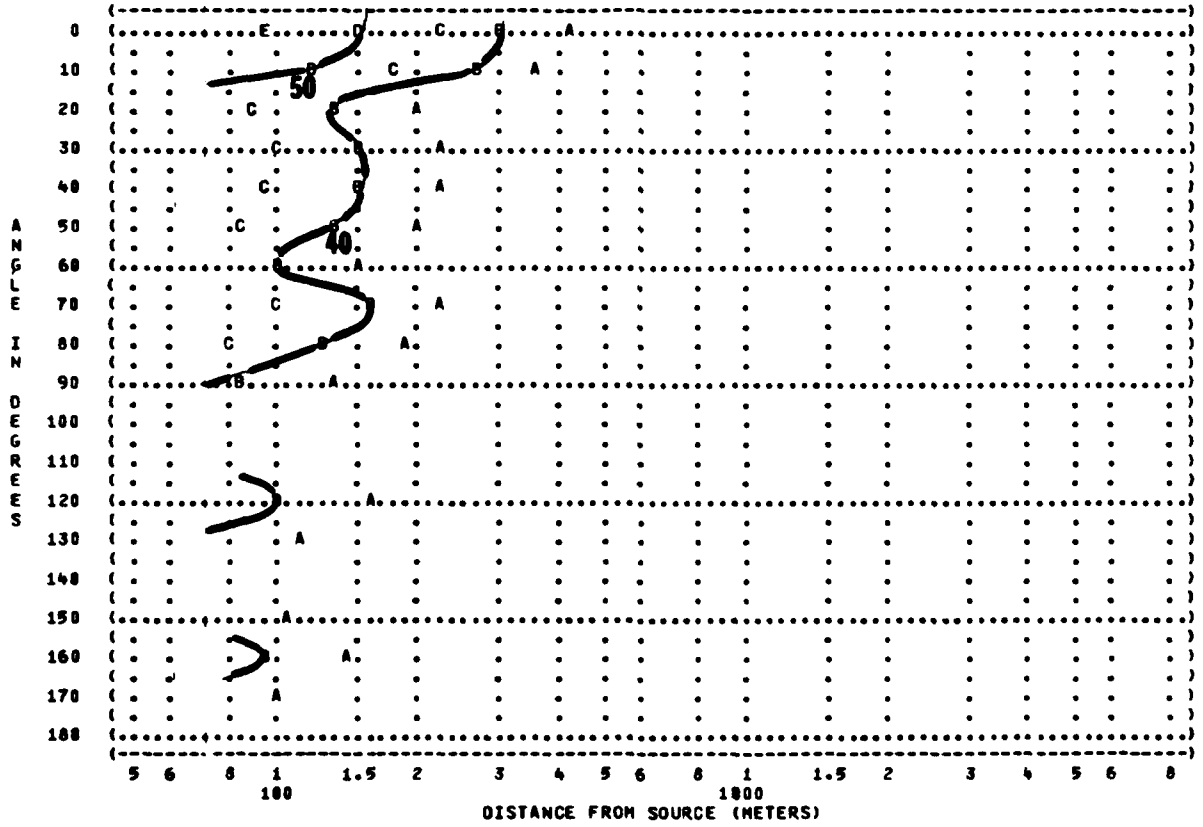

FIGURE: 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (D3) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

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POINT	DB
A	35
B	40
C	45
D	50

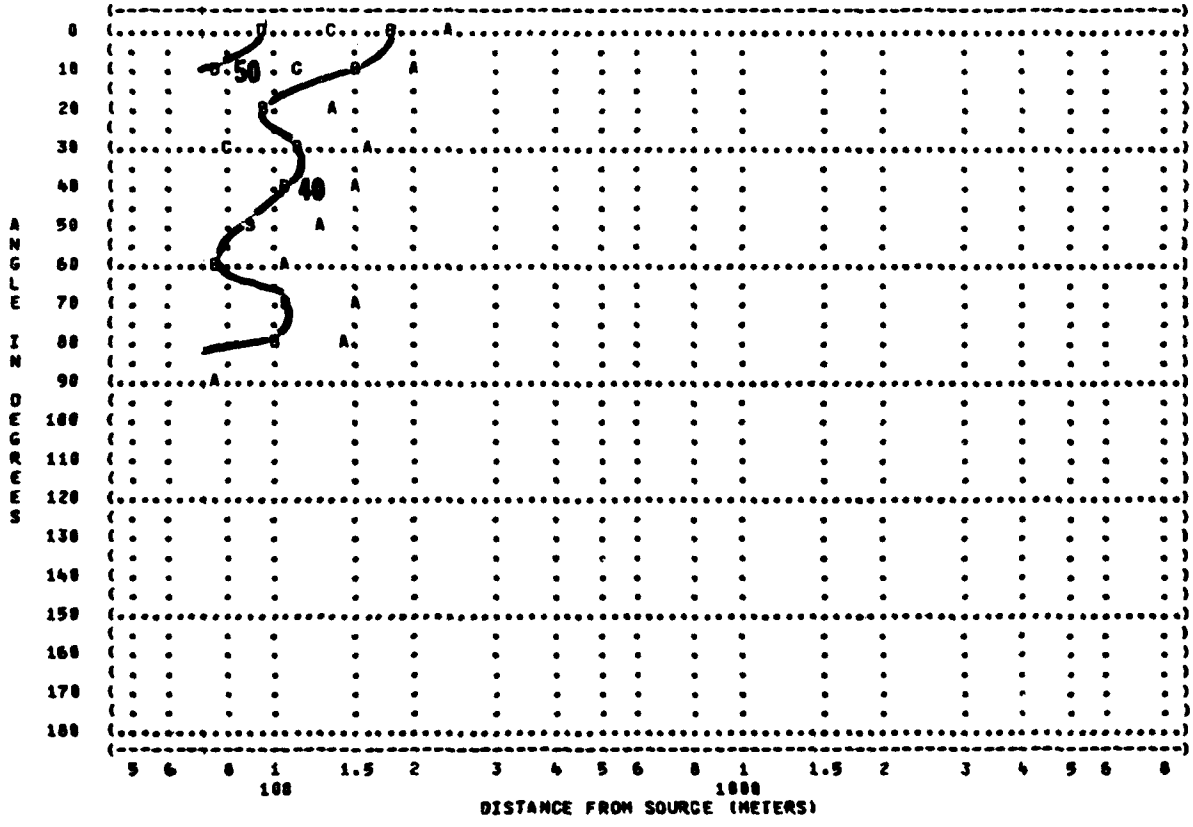

FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-784-081 RUN 02 26 OCT 81 PAGE 18

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

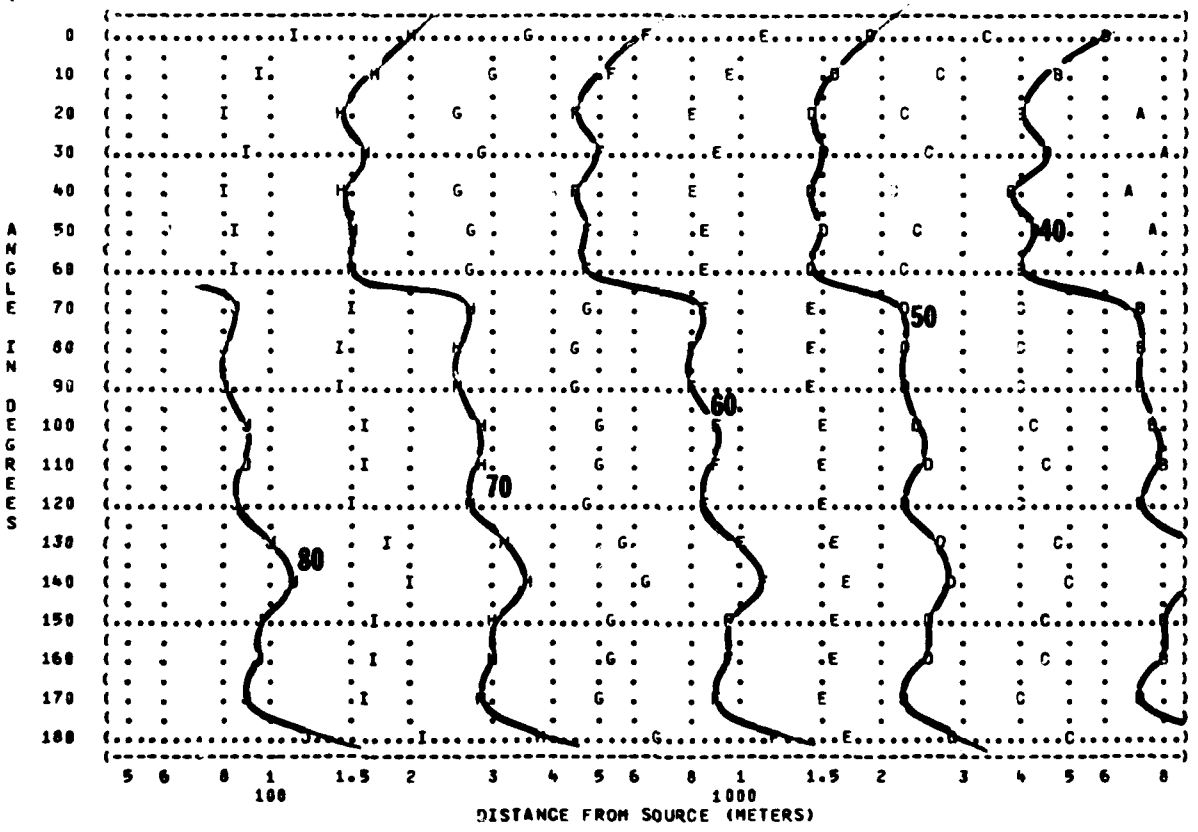

FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-784-001
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NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

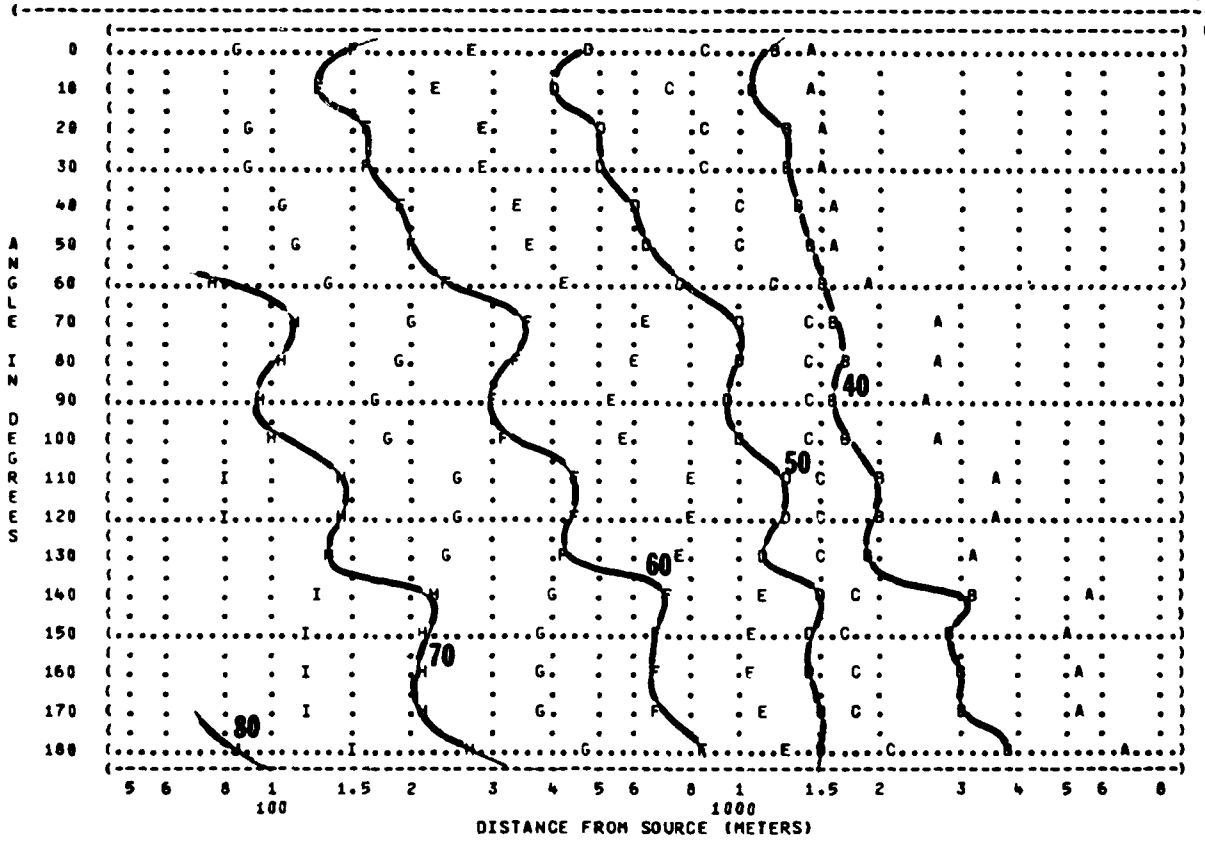

FIGURE: 3.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 02
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PAGE 20

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

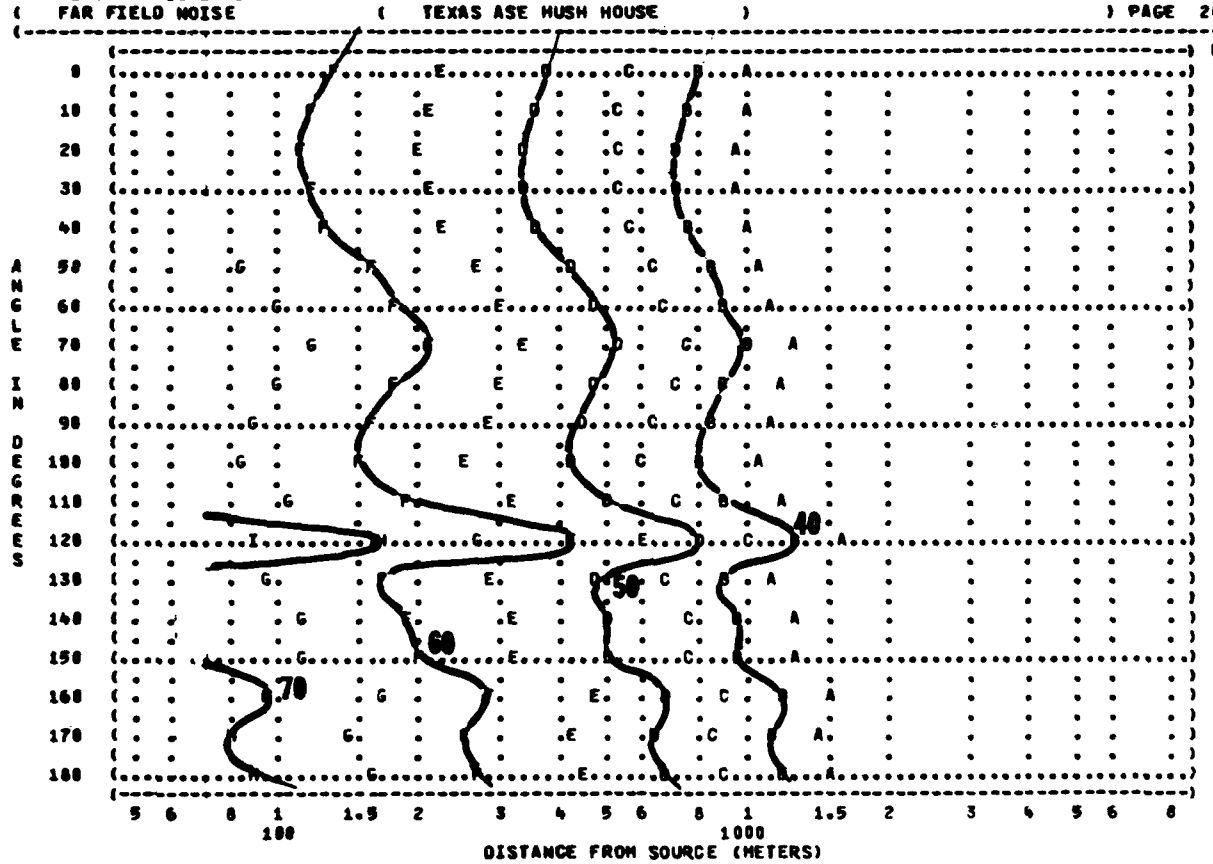

FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 02
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NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

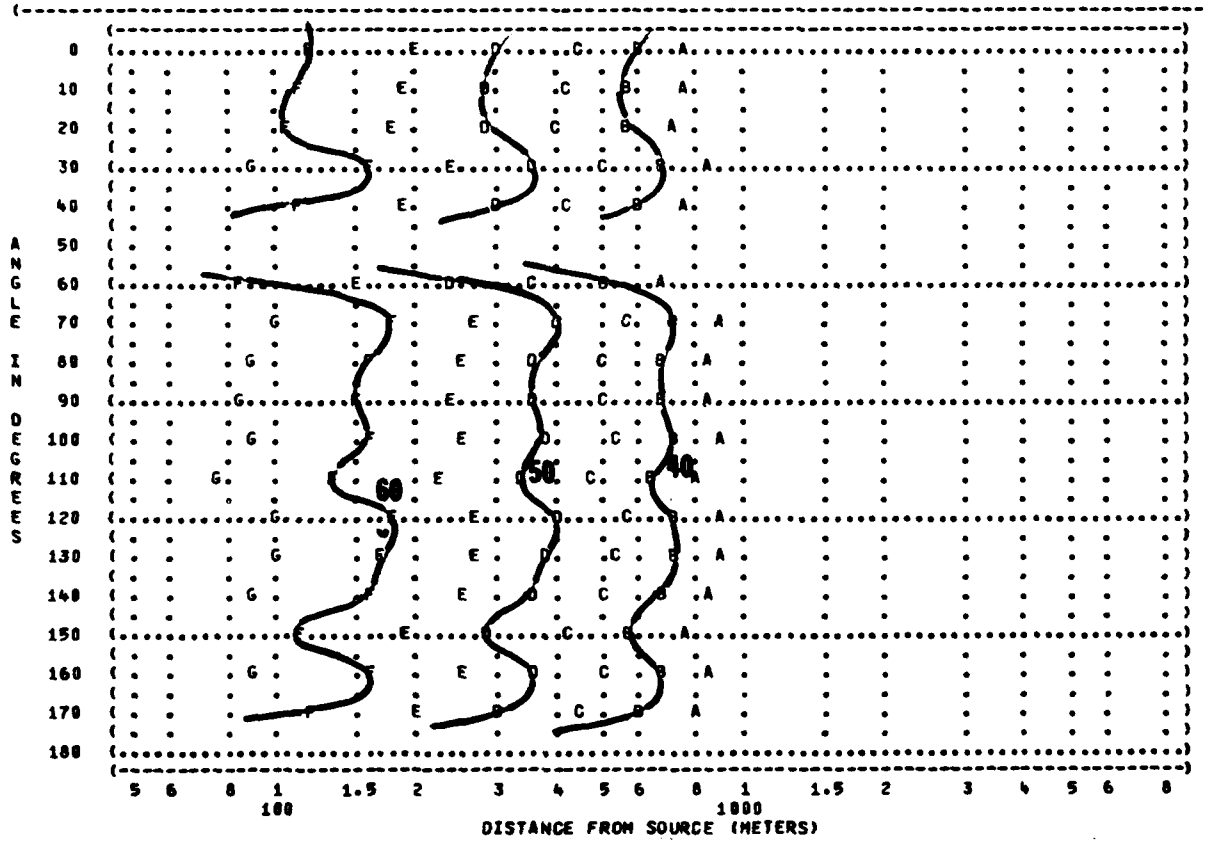

FIGURE: 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-784-001
RUN 02
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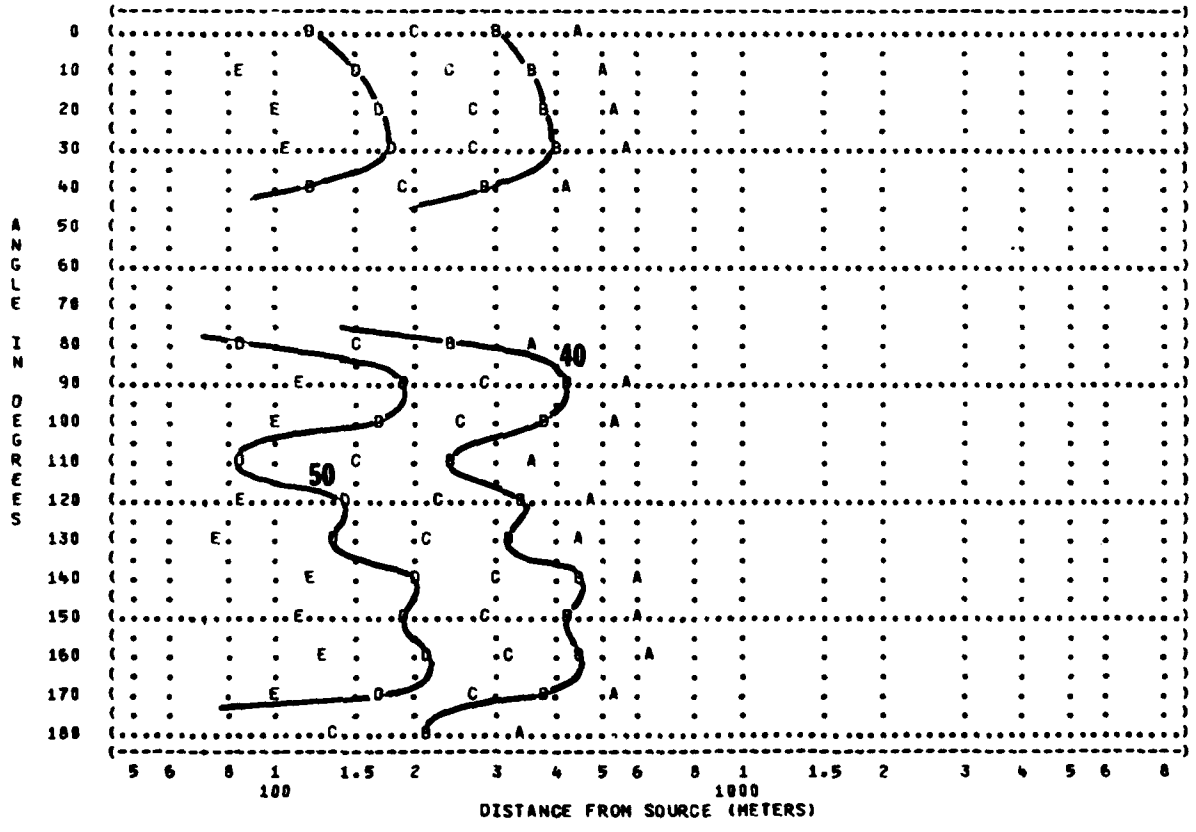
NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DB
A	35
B	40
C	45
D	50
E	55

FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-704-001 RUN 02 26 OCT 81

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POINT	DB
A	35
B	40
C	45
D	50

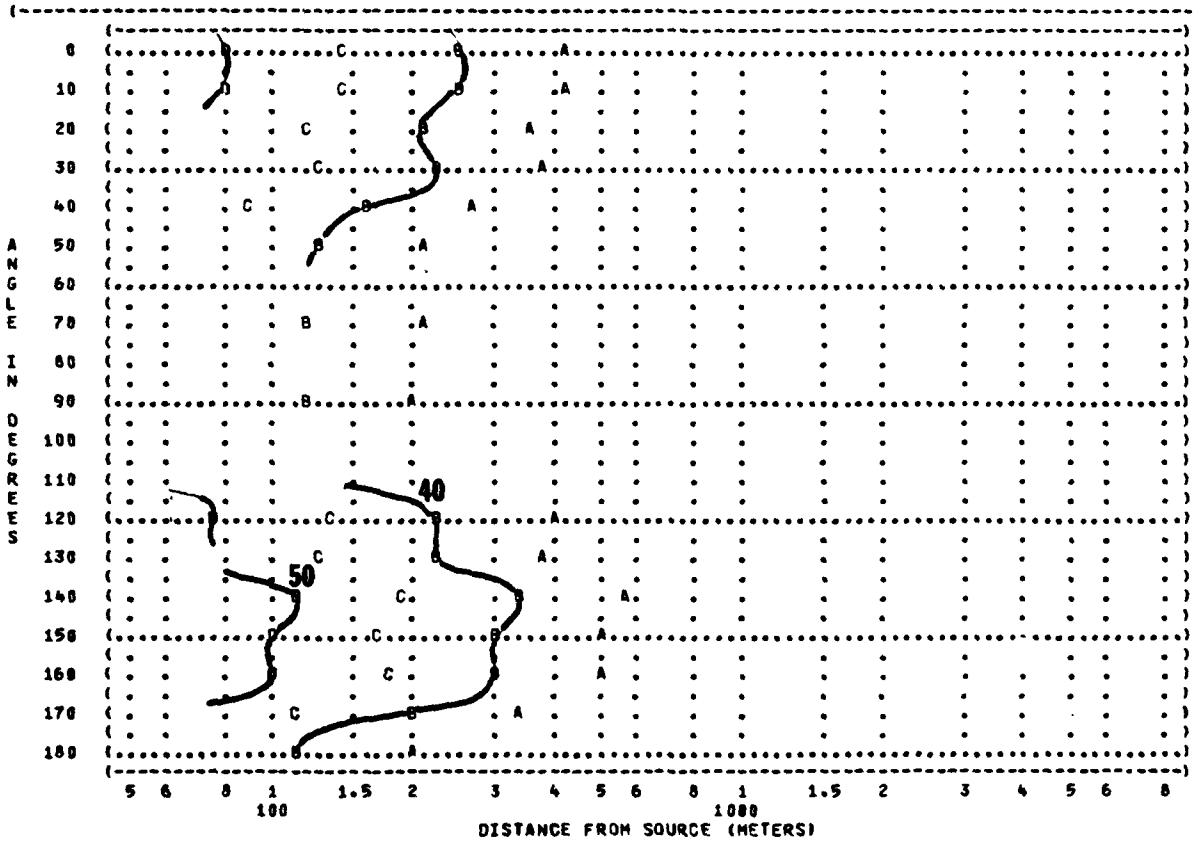

FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

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POINT	DB
A	35
B	40
C	45
D	50
E	55

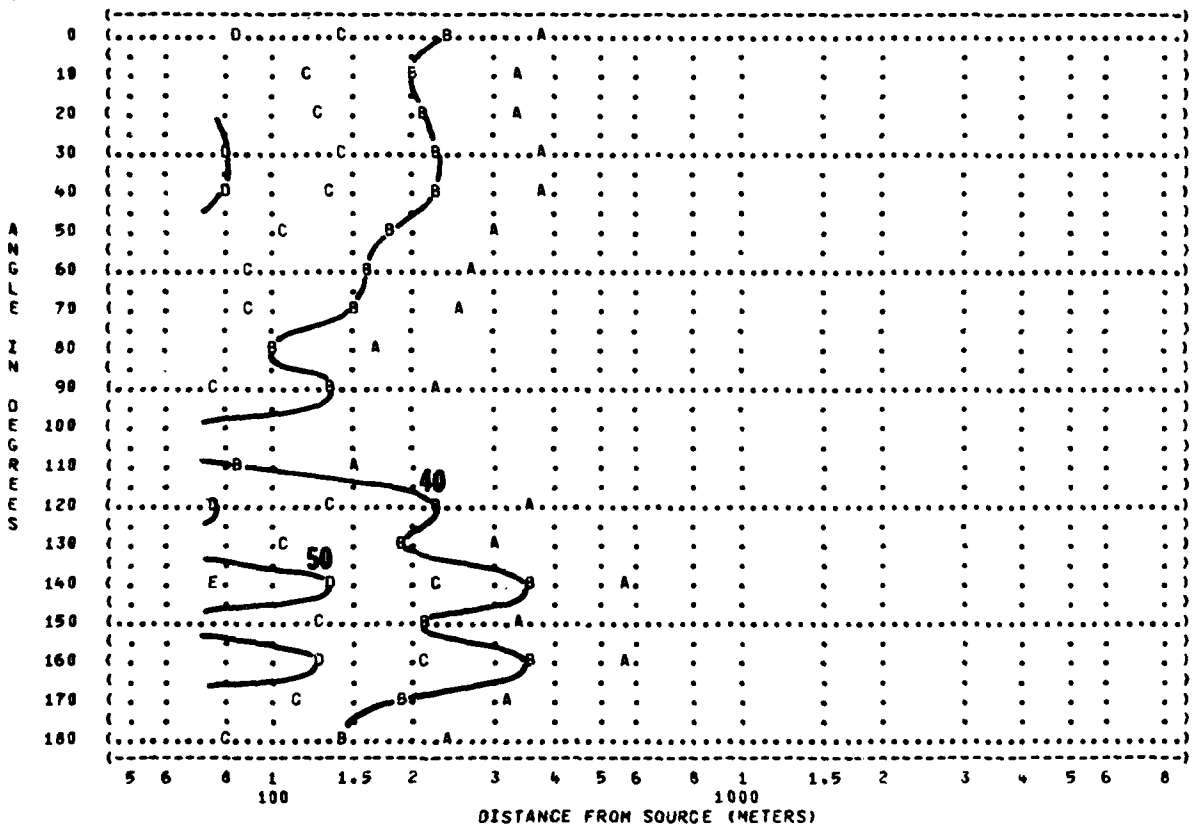

FIGURE: 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 02
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

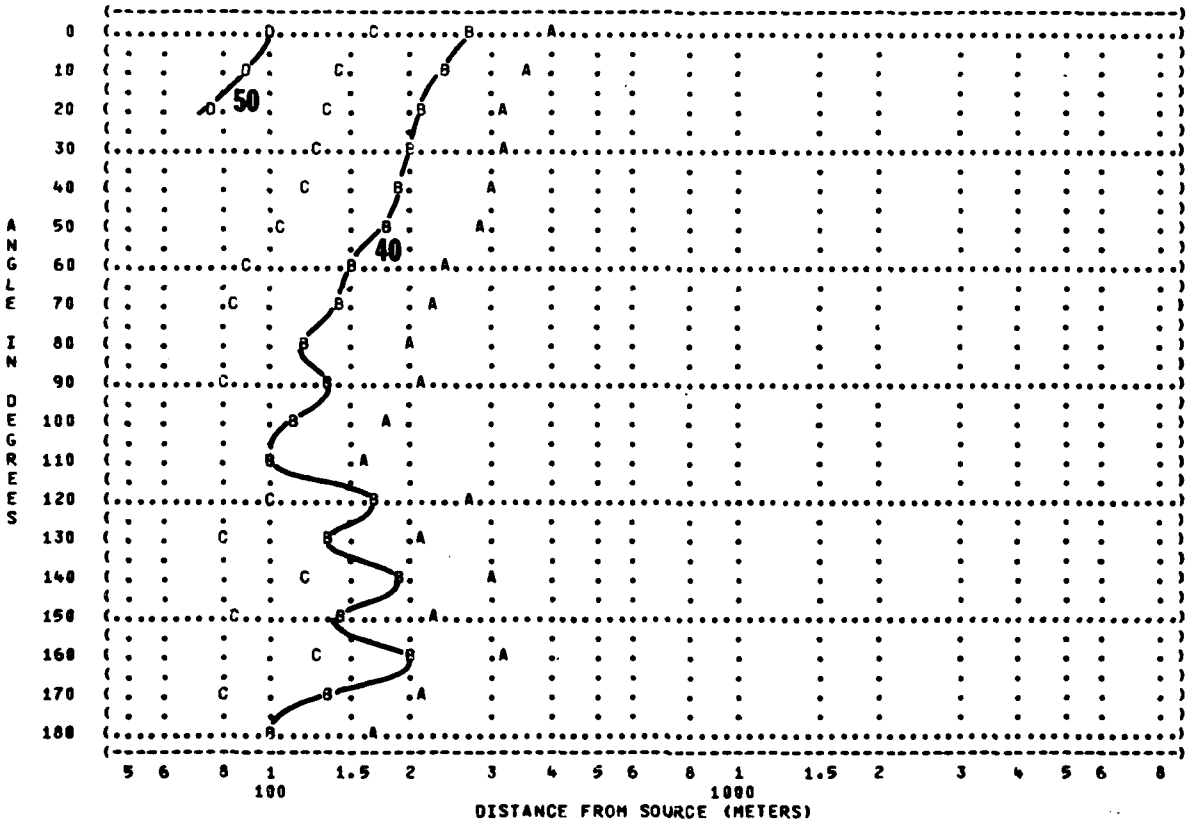

FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR-FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-704-001 RUN 02 26 OCT 81 PAGE 26

POINT	DB
A	35
B	40
C	45
D	50

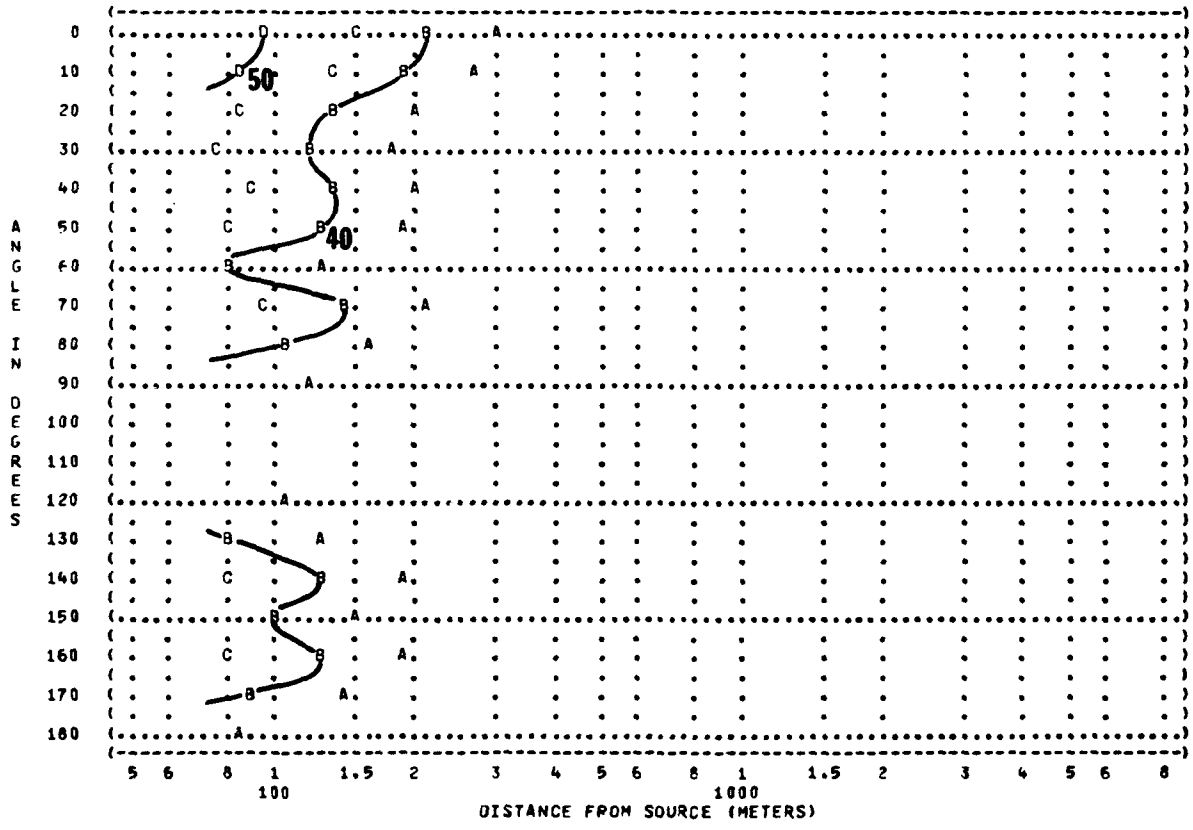

FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (CB) 6000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
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POINT	DB
A	35
B	40
C	45

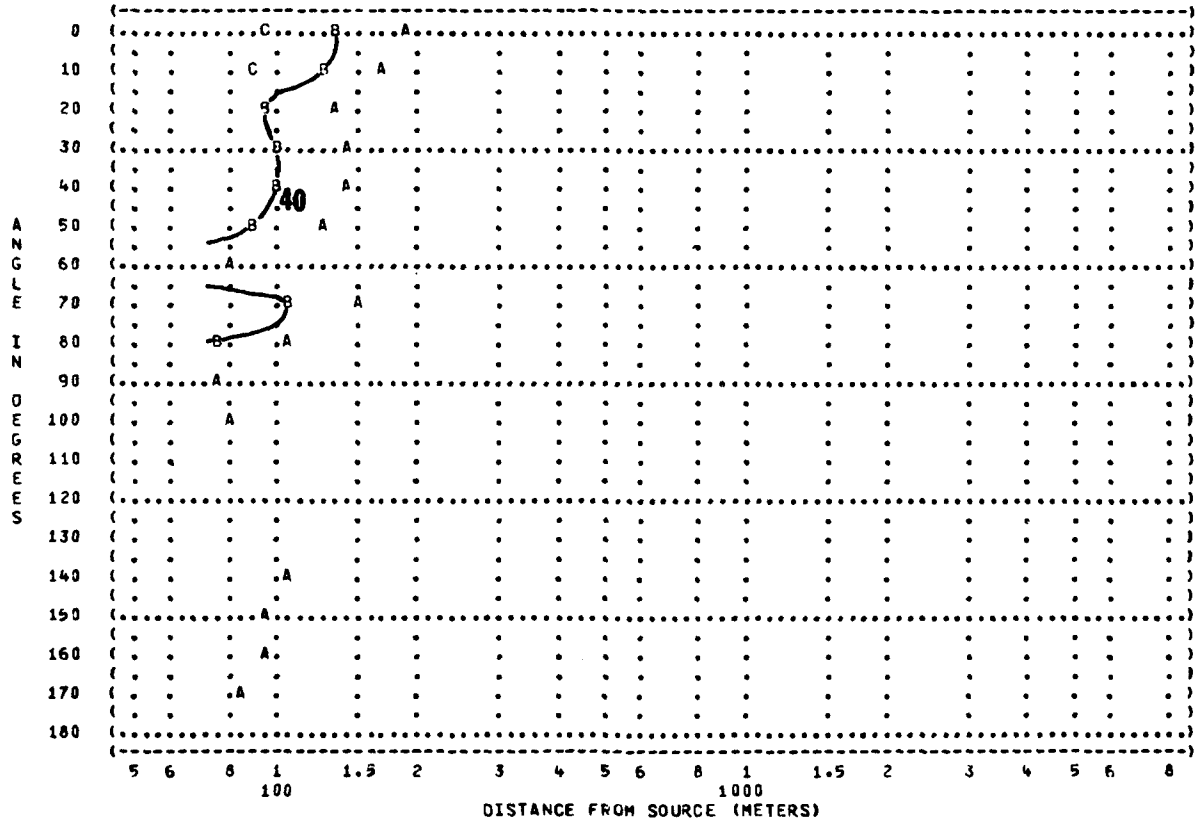

FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 78 %

IDENTIFICATION: OMEGA 1.4 TEST BF-784-881 RUN 03 26 OCT 81 PAGE 18

POINT	DB
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90

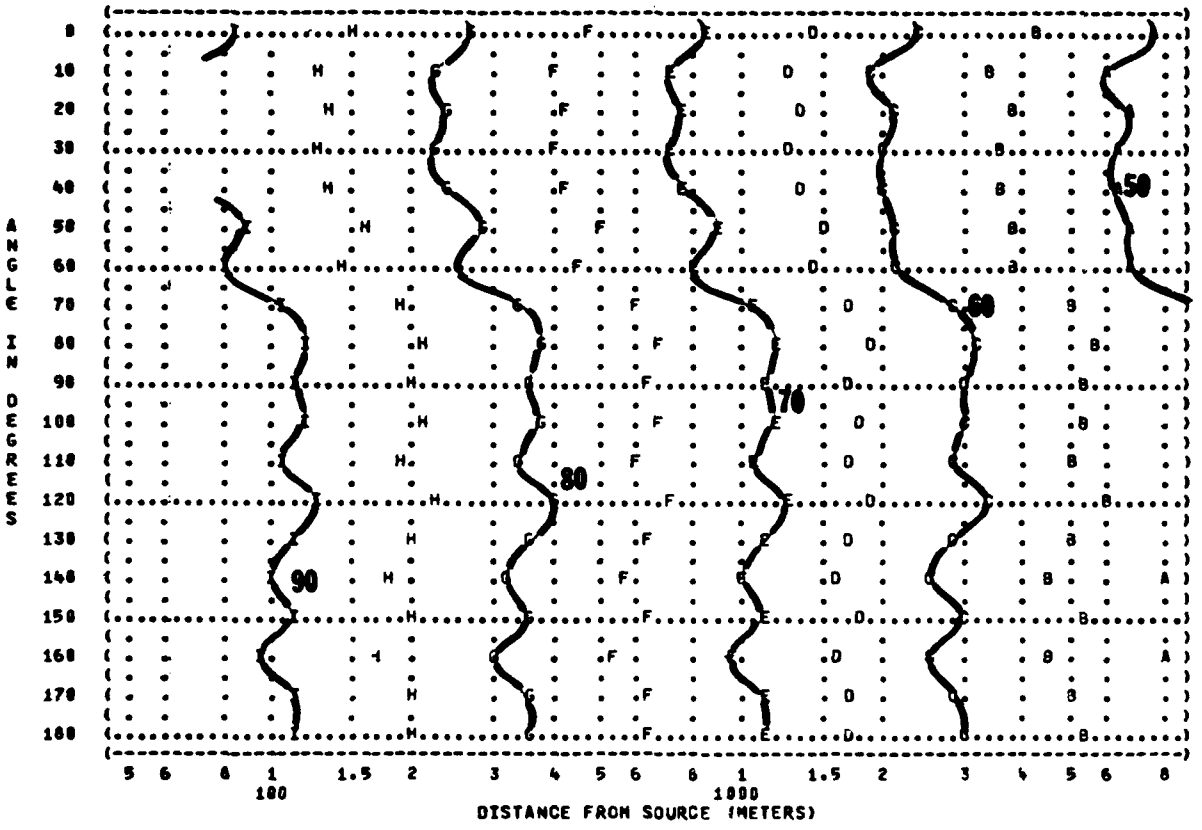

FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-704-081 RUN 03 26 OCT 81

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90

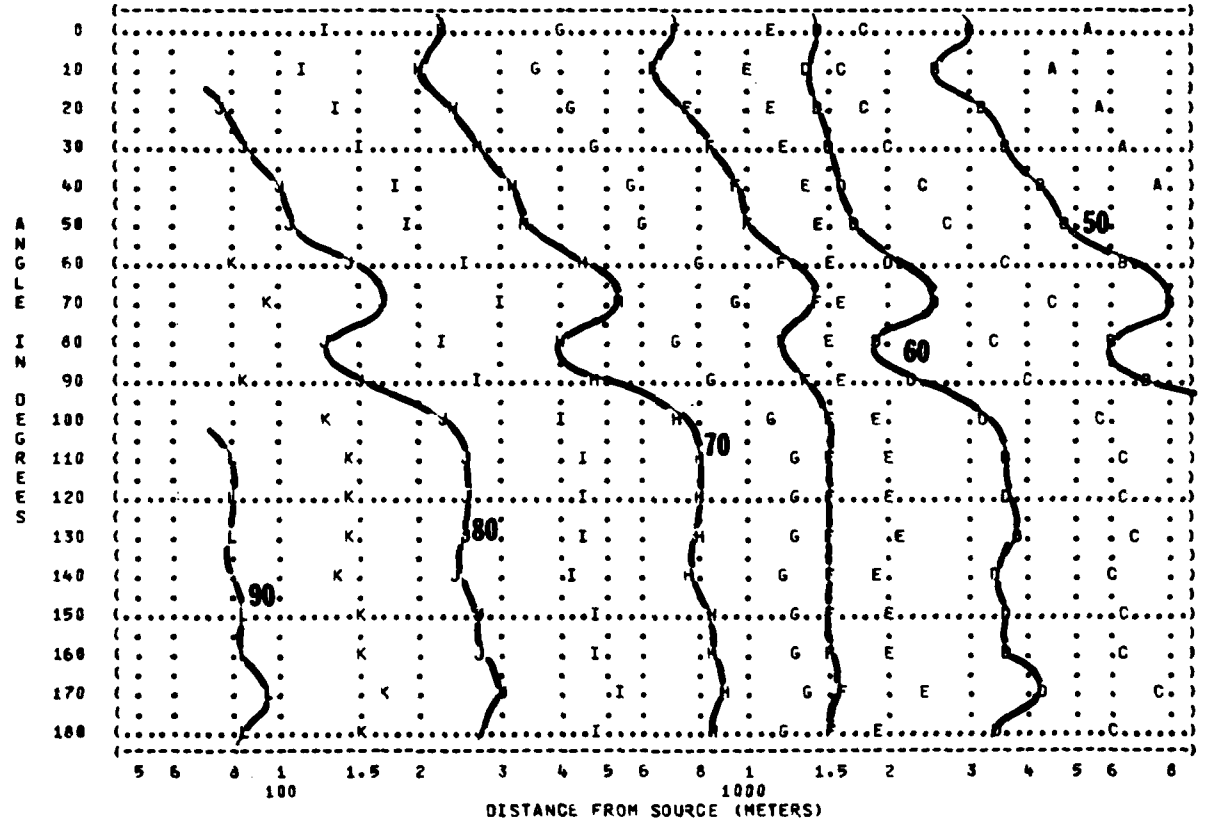

FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M MS
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 03
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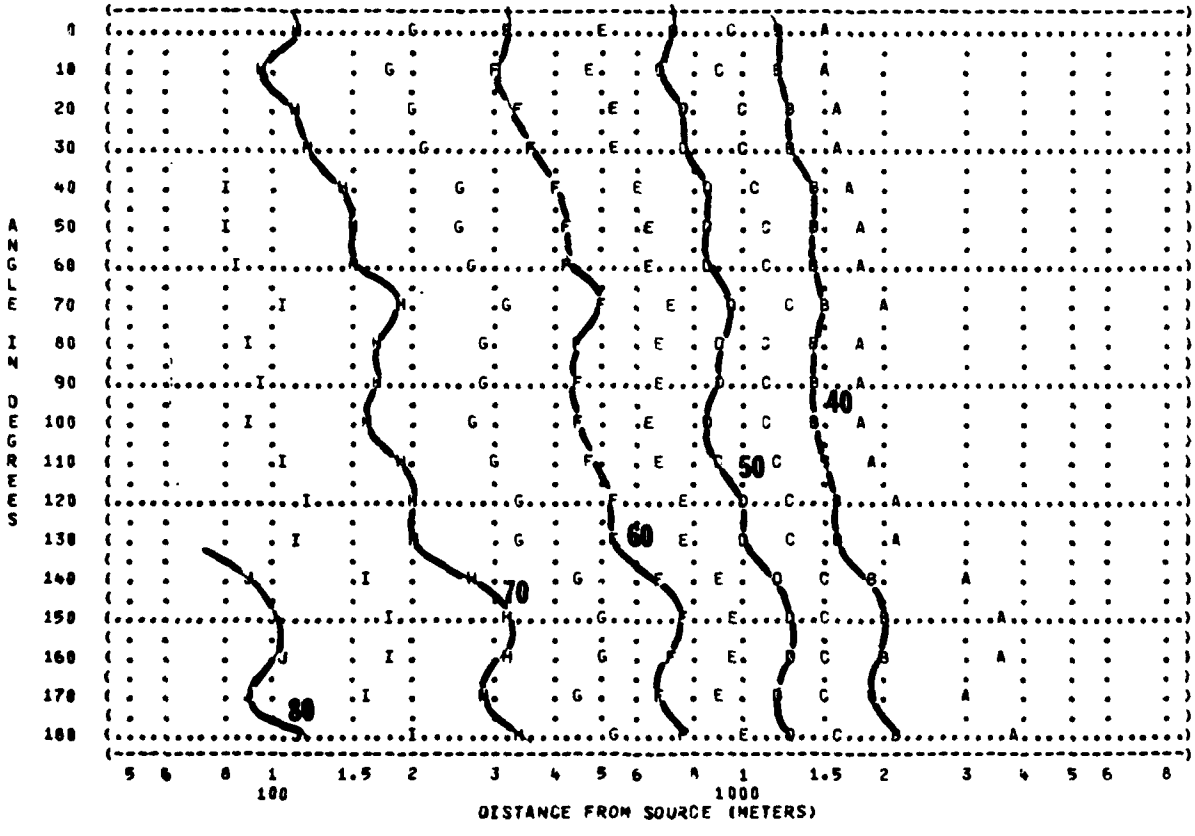

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

FIGURE: 3.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
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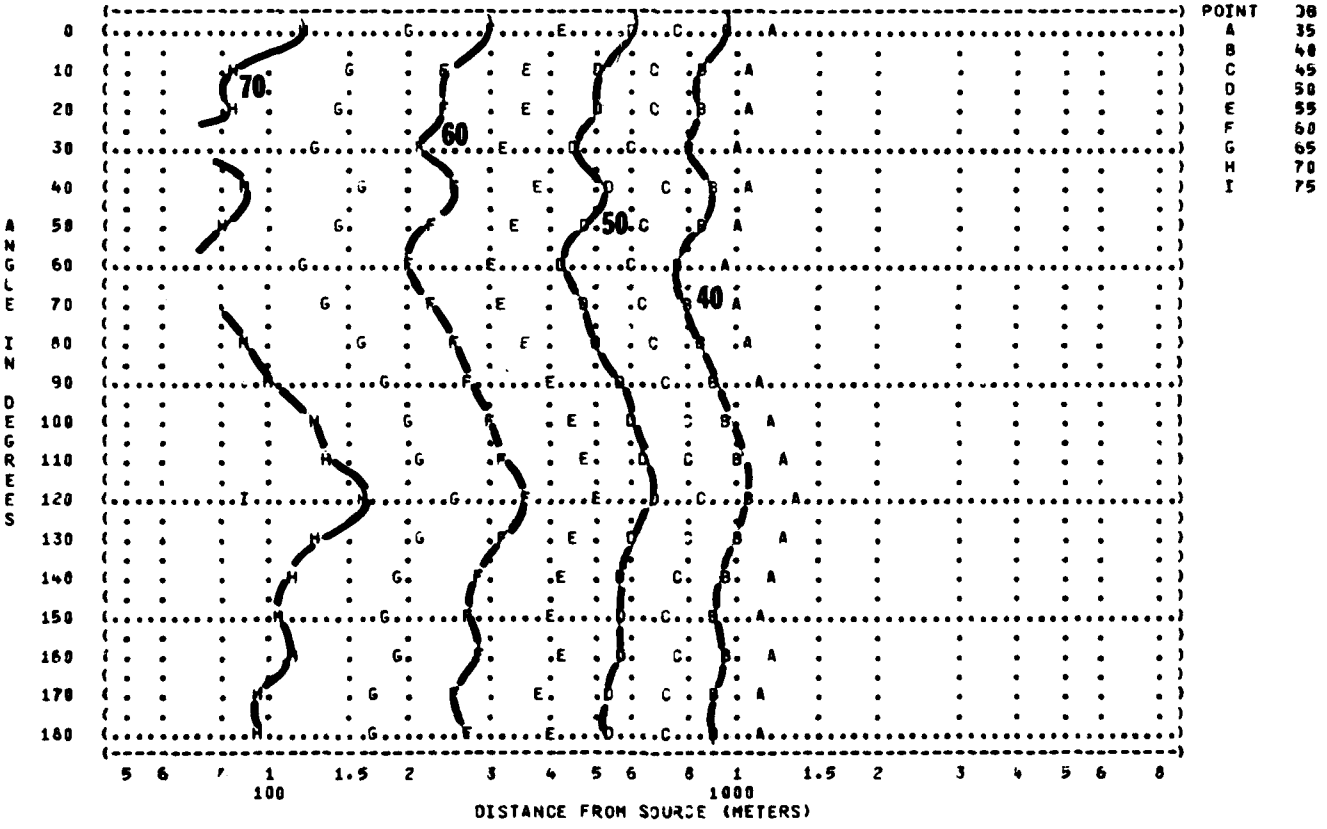

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
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NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 13 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

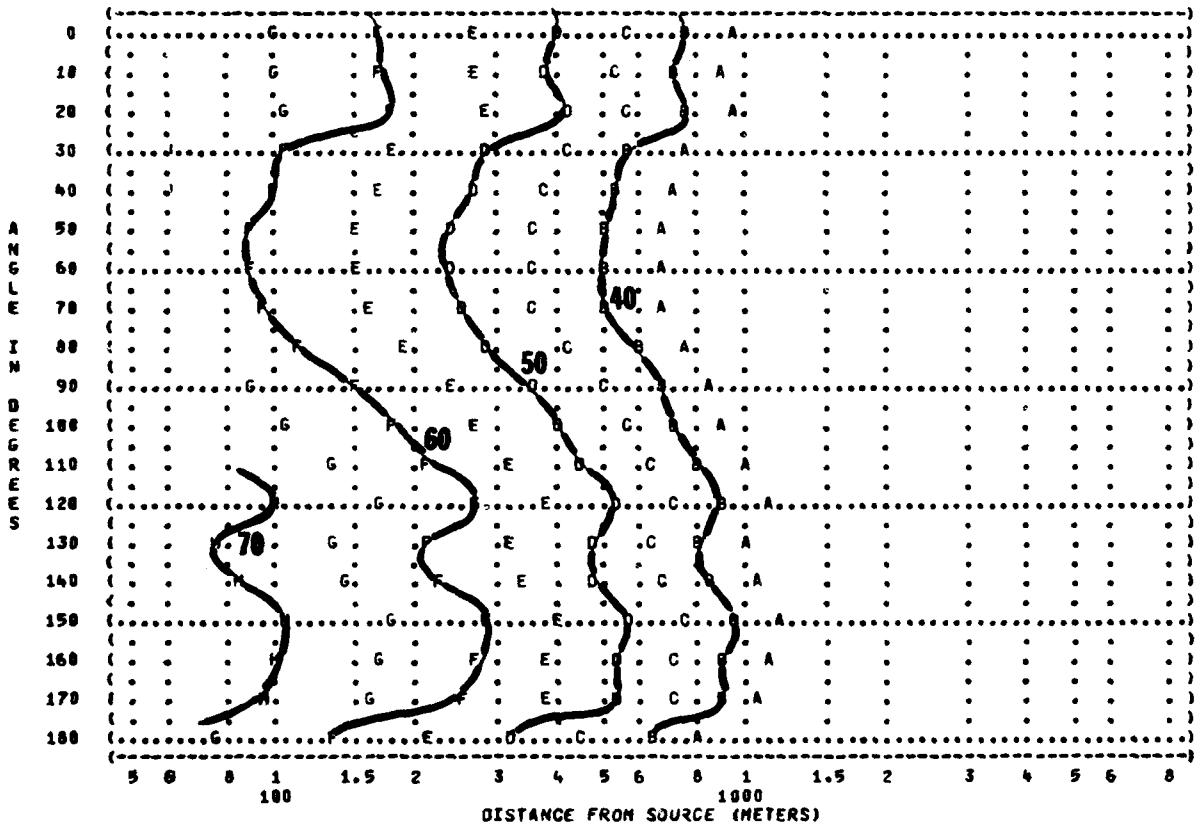

FIGURE: 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
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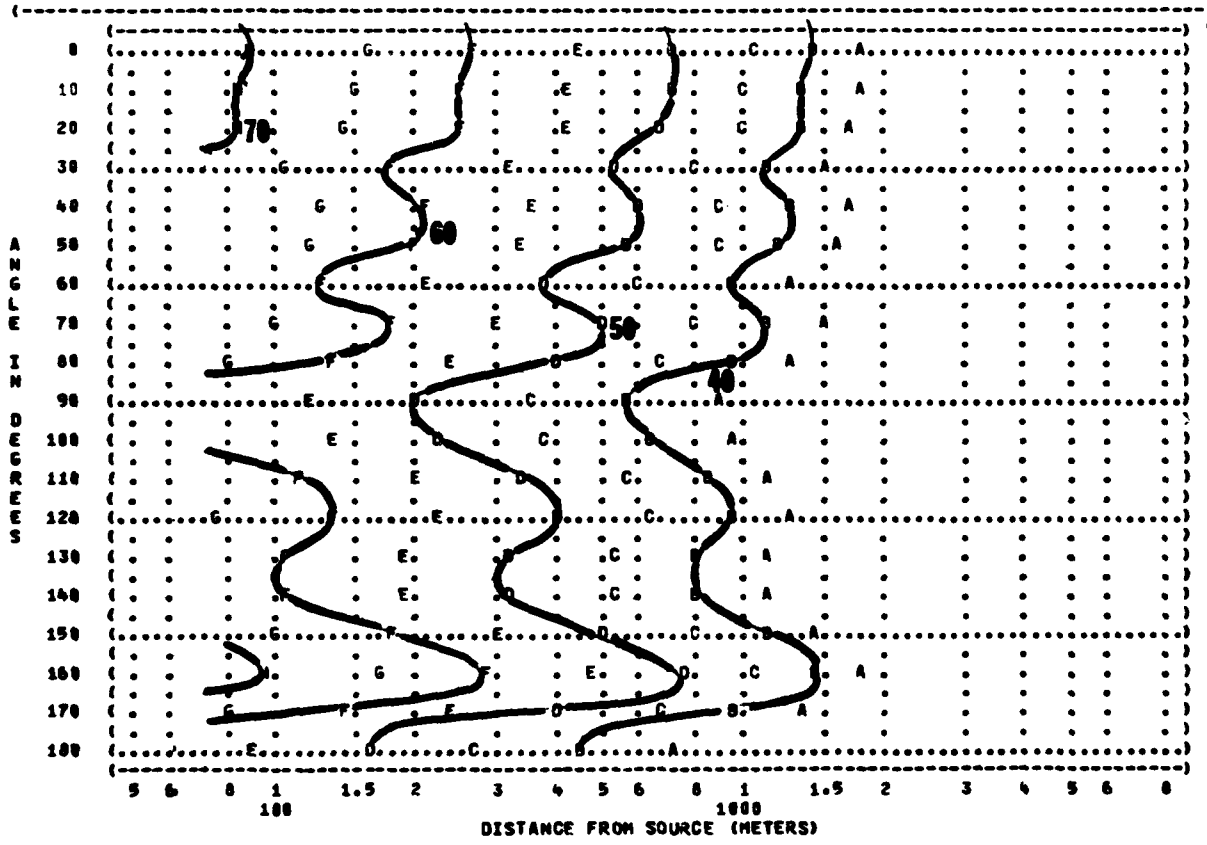

POINT DB
A 35
B 40
C 45
D 50
E 55
F 60
G 65
H 70

FIGURE: 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
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NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

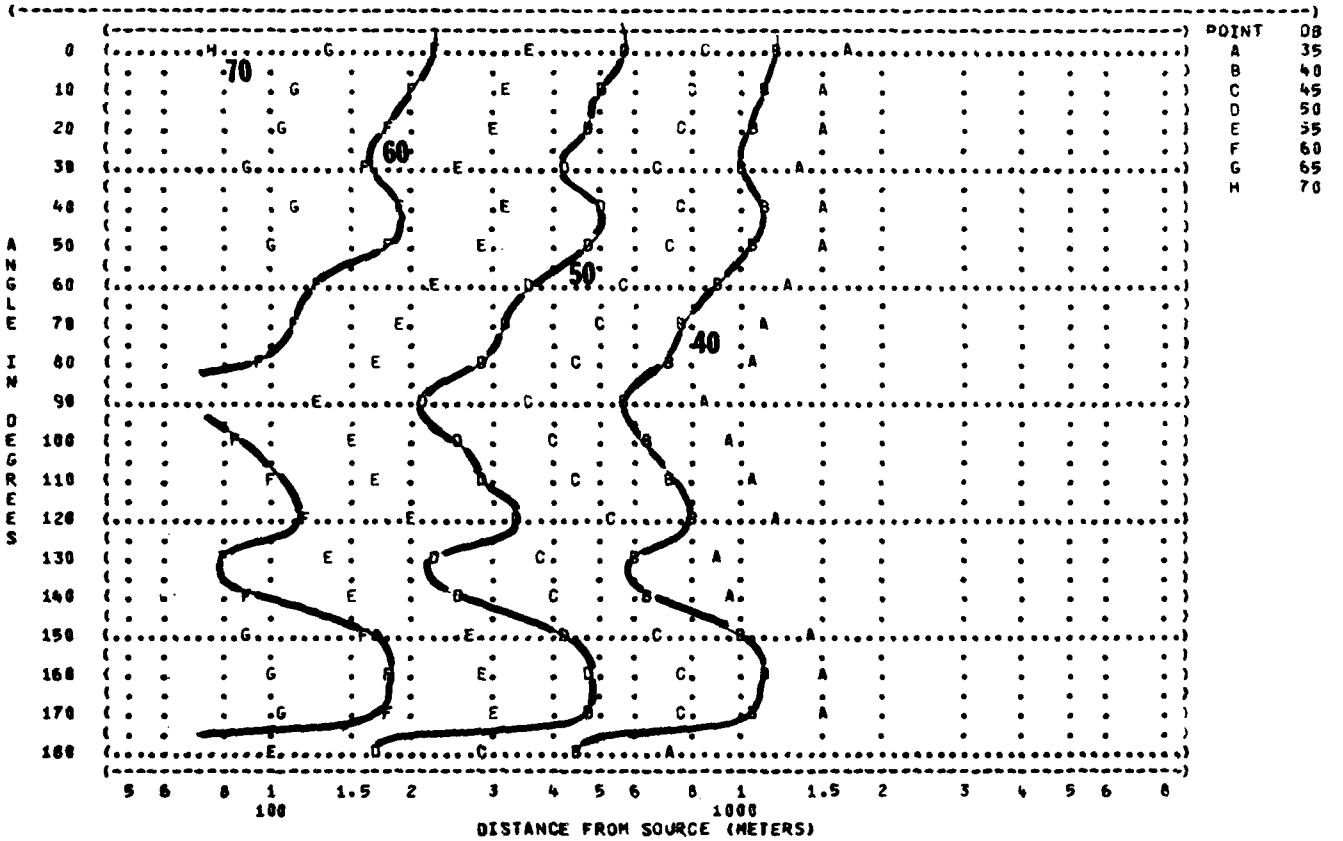

FIGURE: 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
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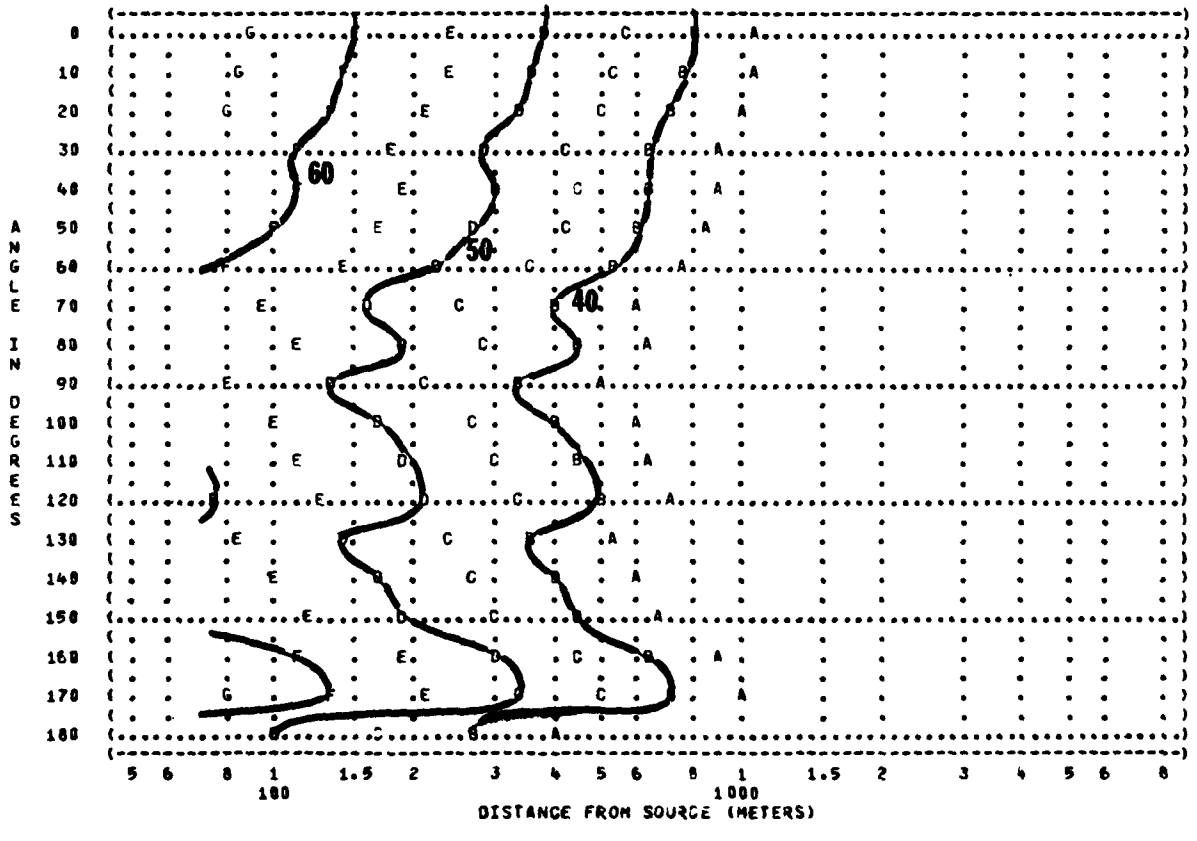

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-704-081 RUN 03 26 OCT 81 PAGE 26

POINT	DB
A	35
B	40
C	45
D	50
E	55

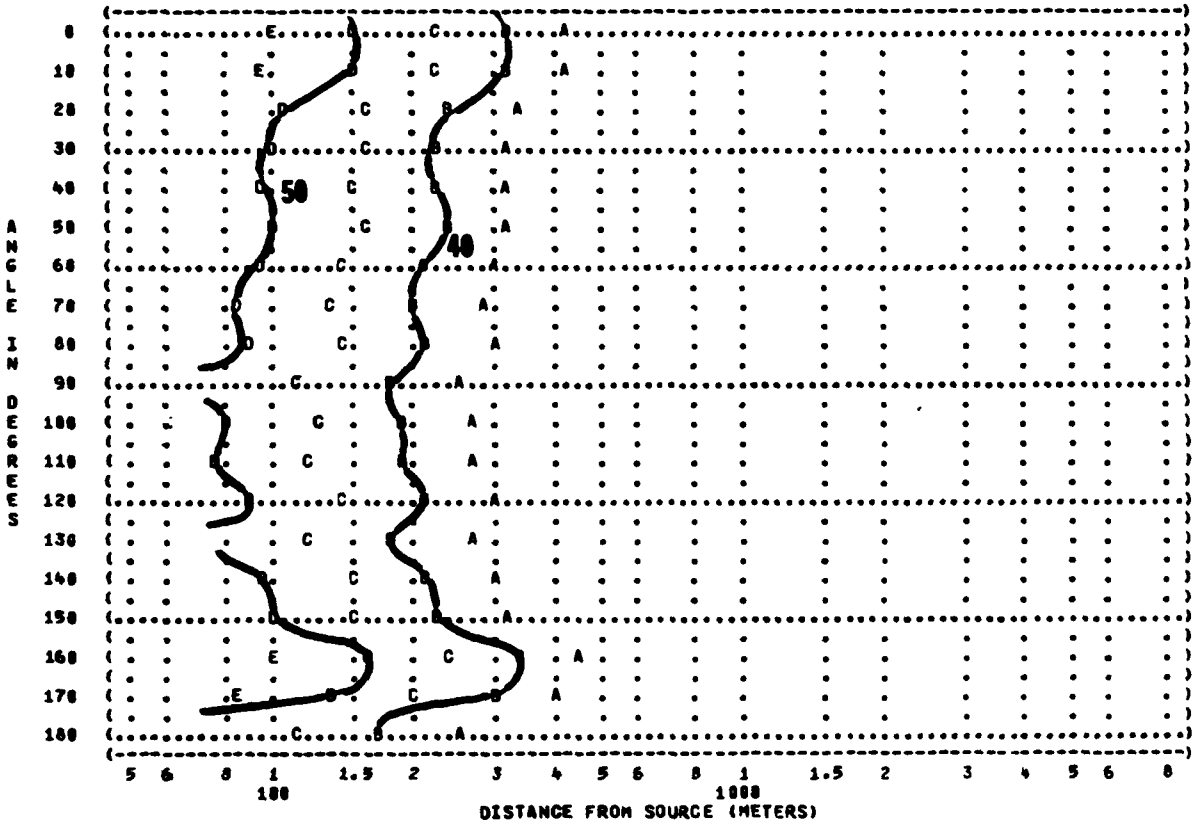

FIGURE: 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-704-001 RUN 03 26 OCT 81 PAGE 27

POINT	DB
A	35
B	40
C	45
D	50

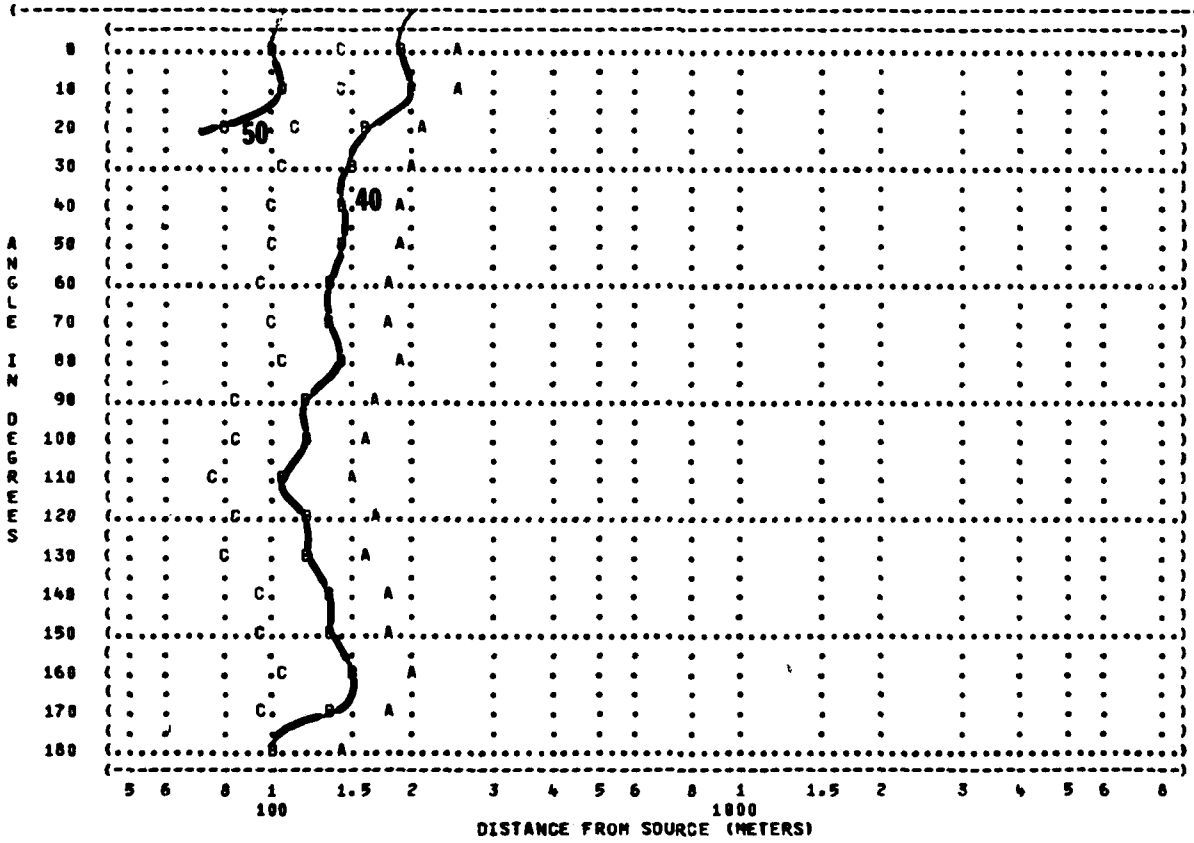

FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
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POINT	DB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95
I	100

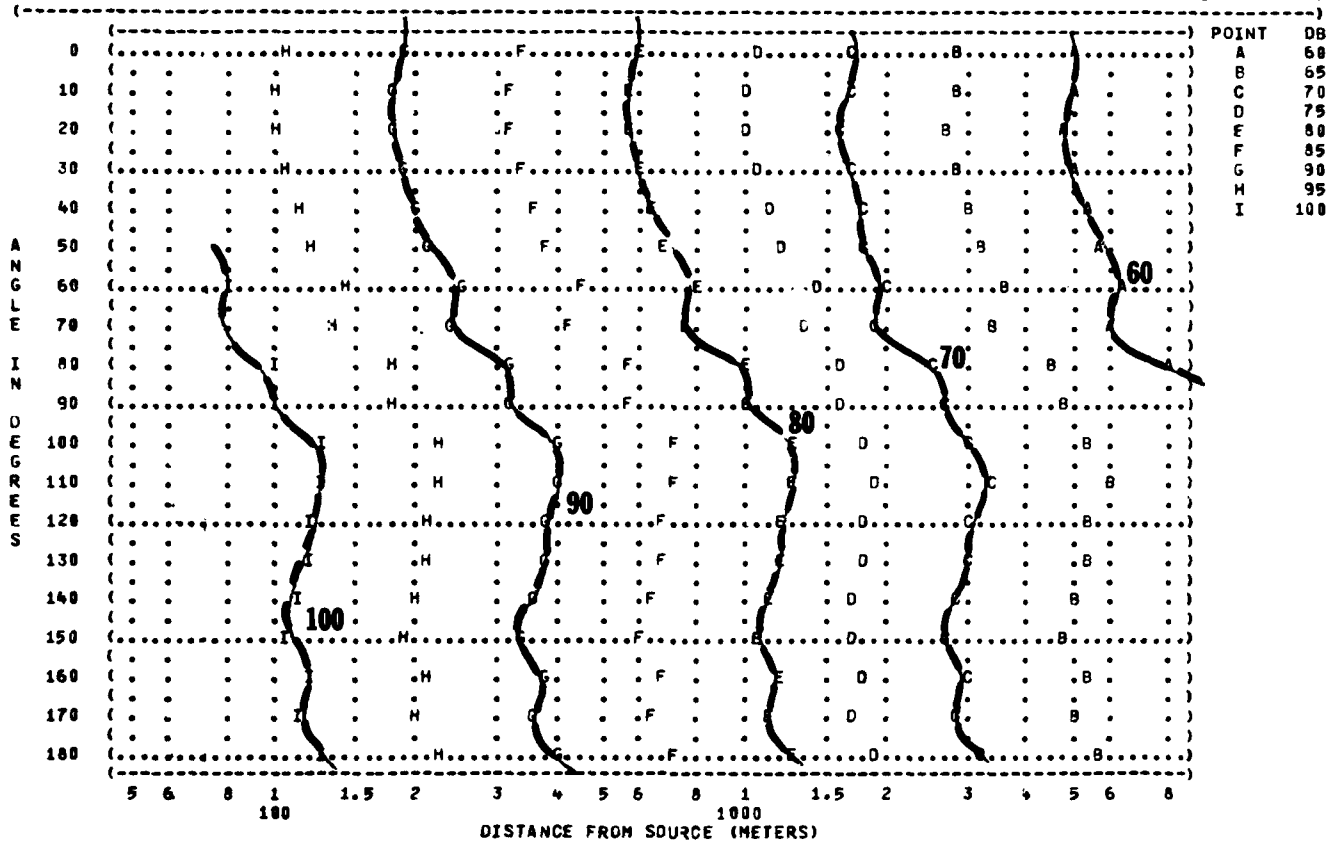


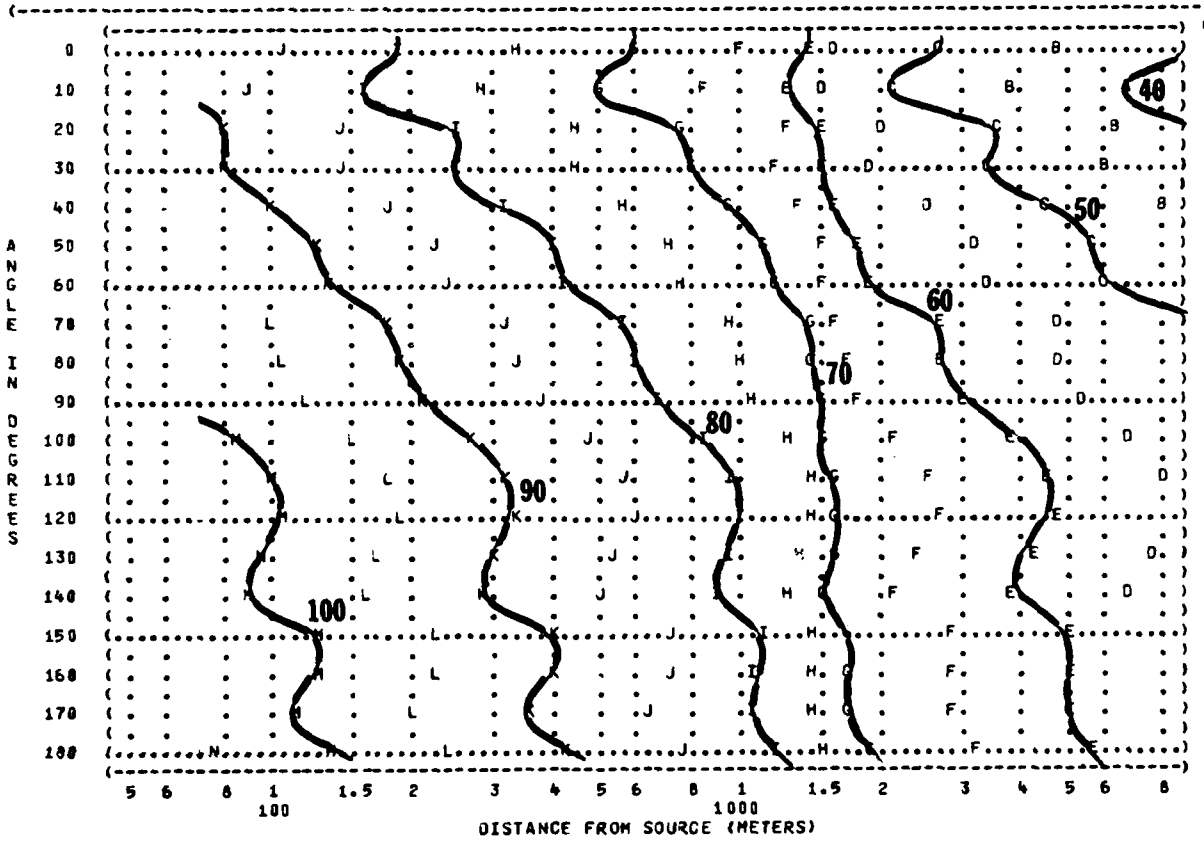
FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 9F-784-081
RUN 04
26 OCT 81
PAGE 19



POINT	DB
A	40
B	45
C	50
D	55
E	60
F	65
G	70
H	75
I	80
J	85
K	90
L	95
M	100
N	105

FIGURE: 3.8
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
63 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 04
26 OCT 81
PAGE 20

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95

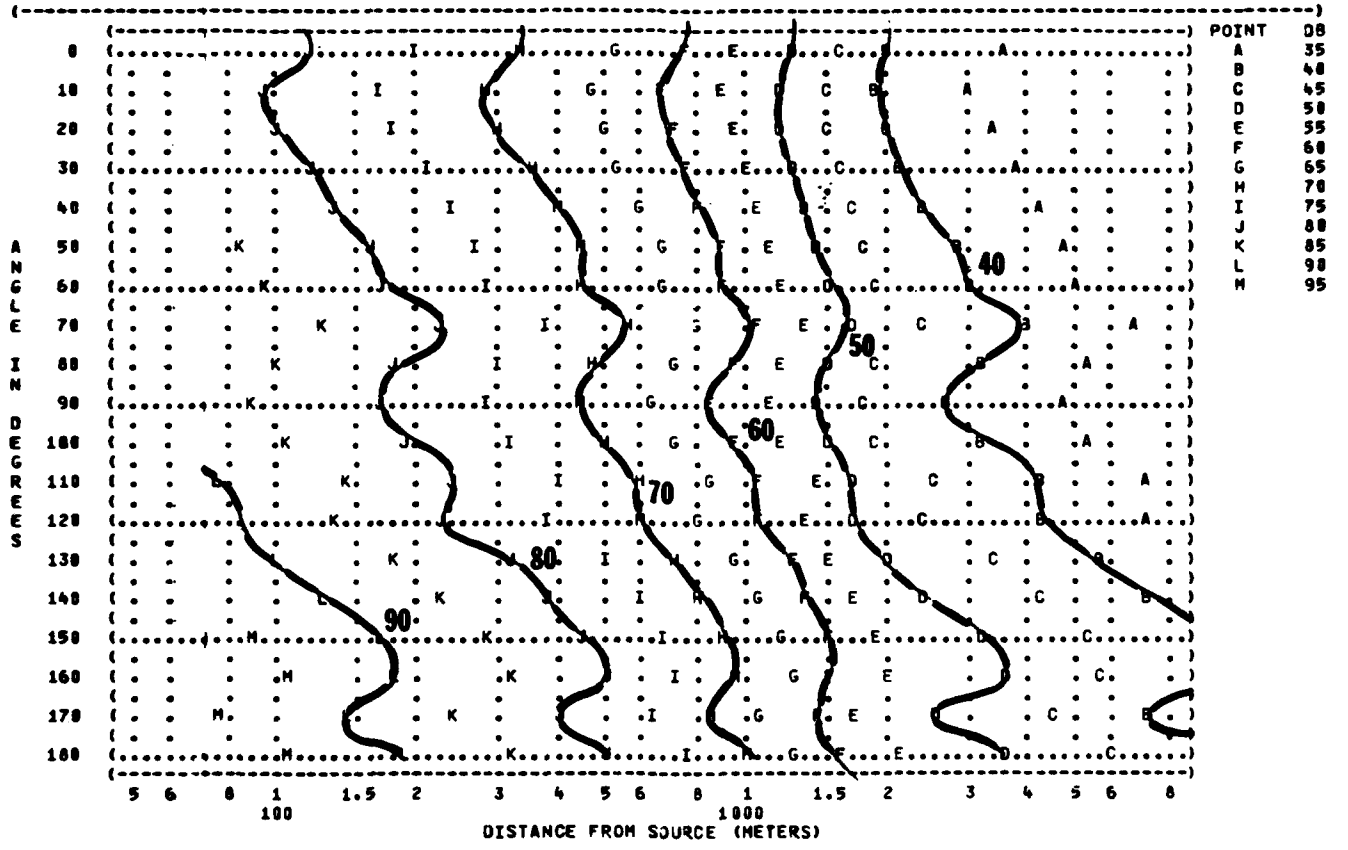


FIGURE: 3.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-784-881
RUN 04
26 OCT 81
PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

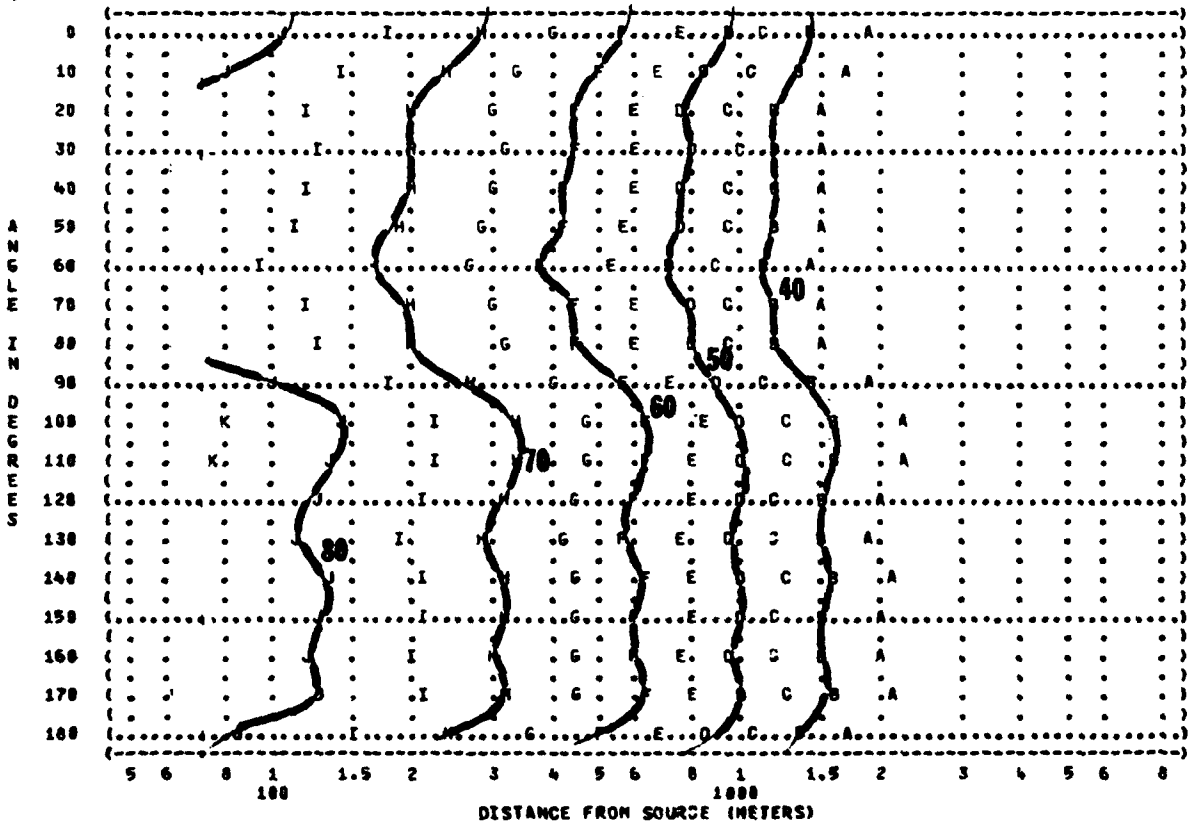


FIGURE: 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-704-001 RUN 04 26 OCT 81 PAGE 22

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

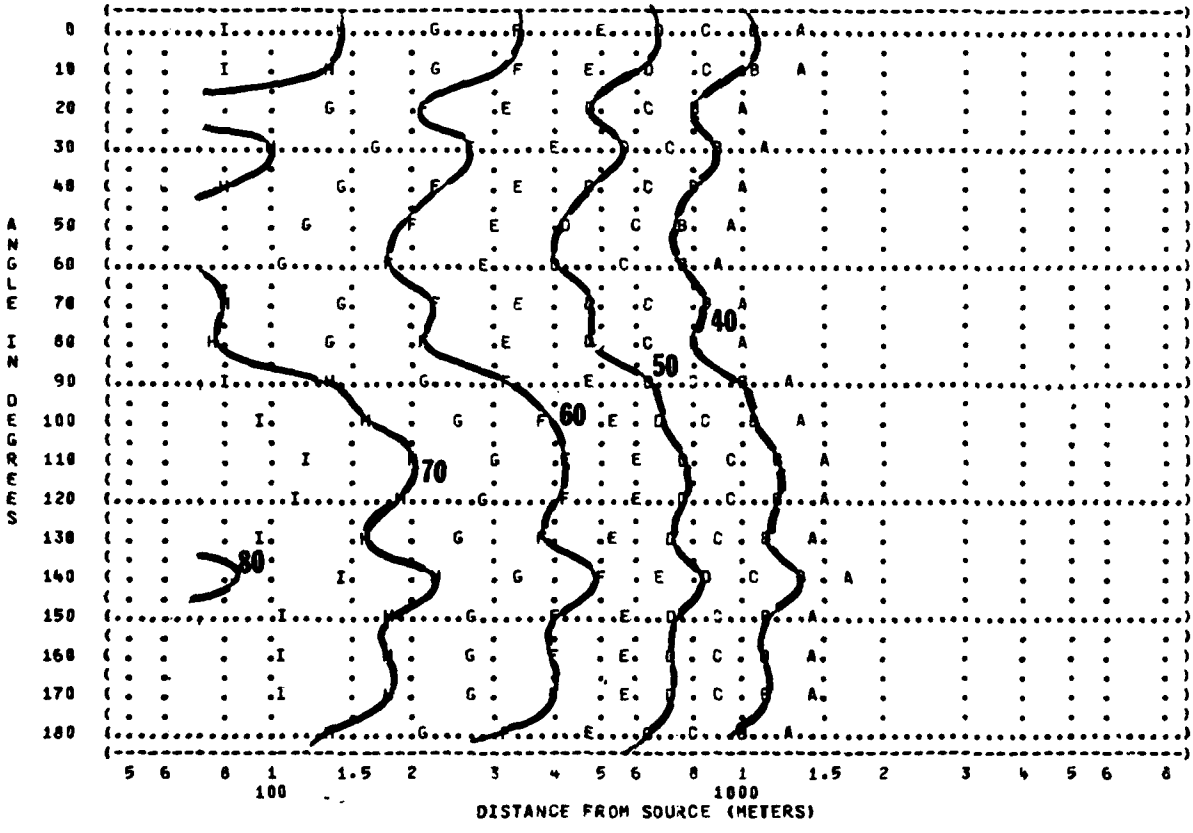


FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-081
RUN 04
26 OCT 81
PAGE 23

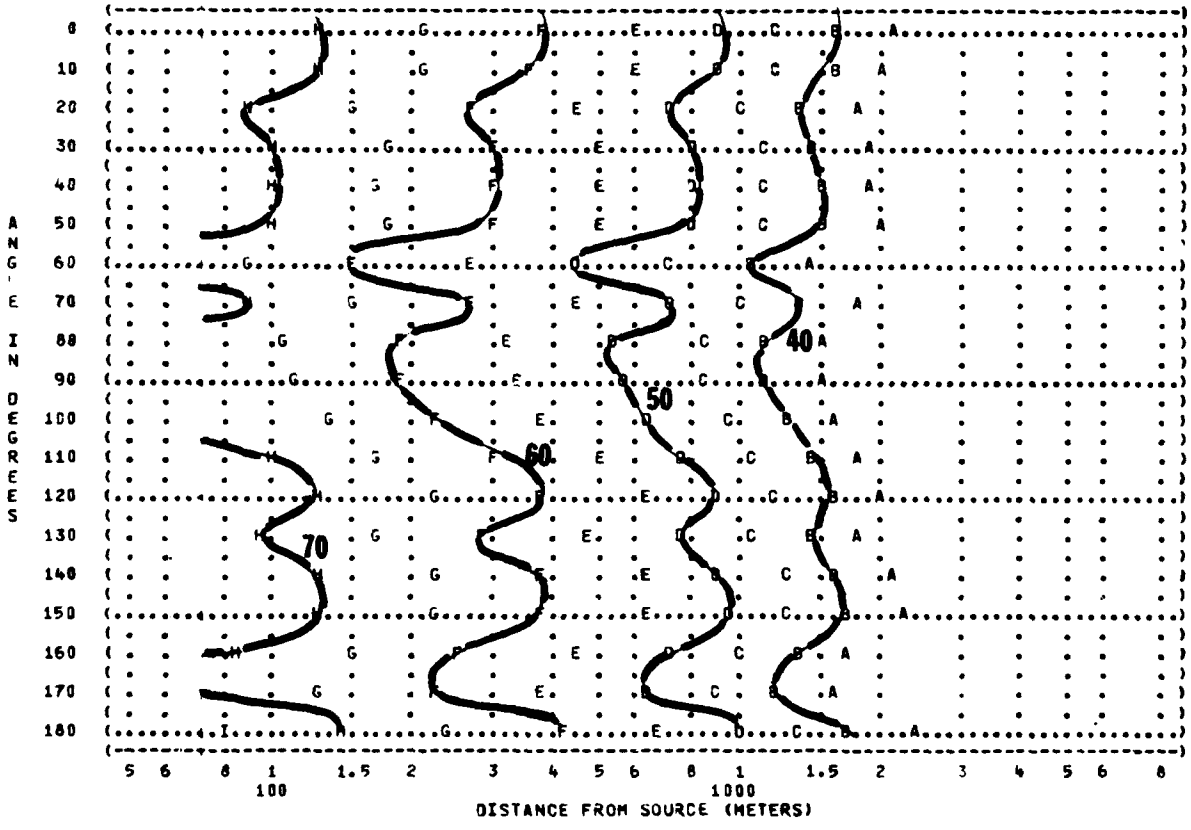


FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-704-001 RUN 04 26 OCT 81 PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

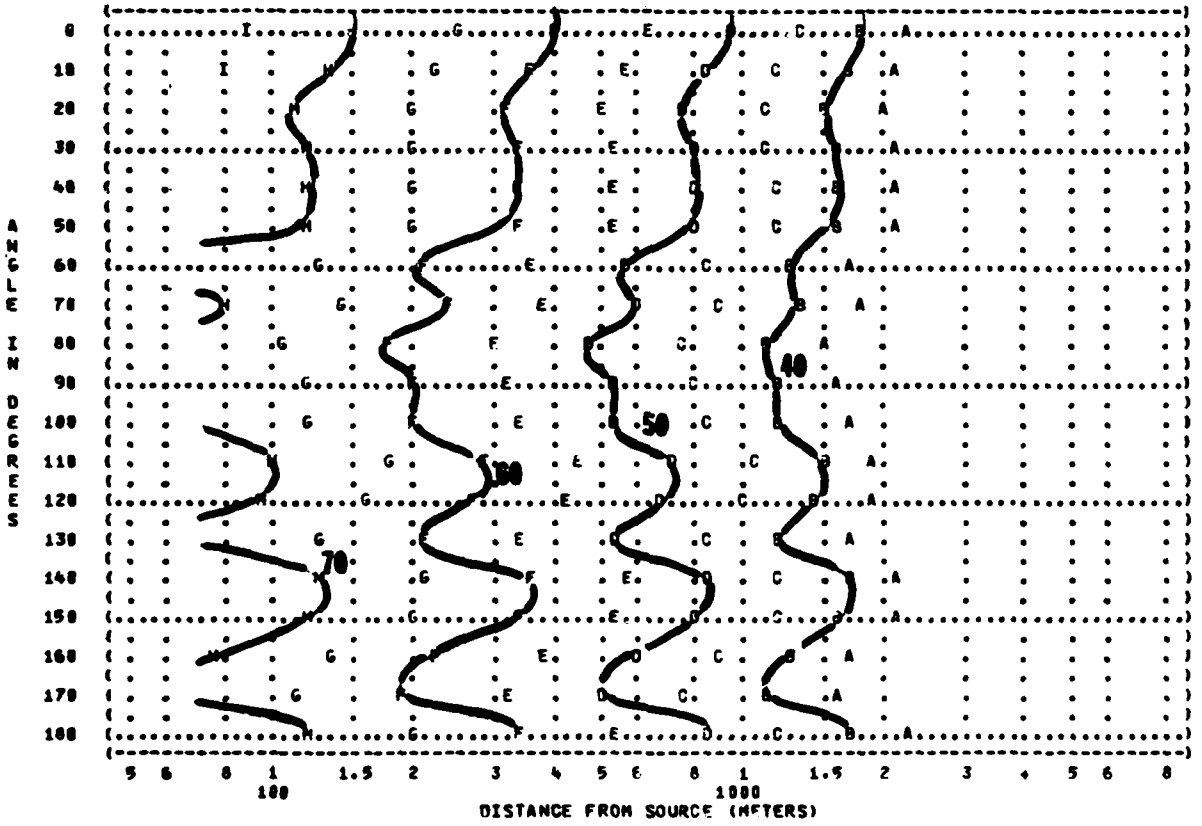


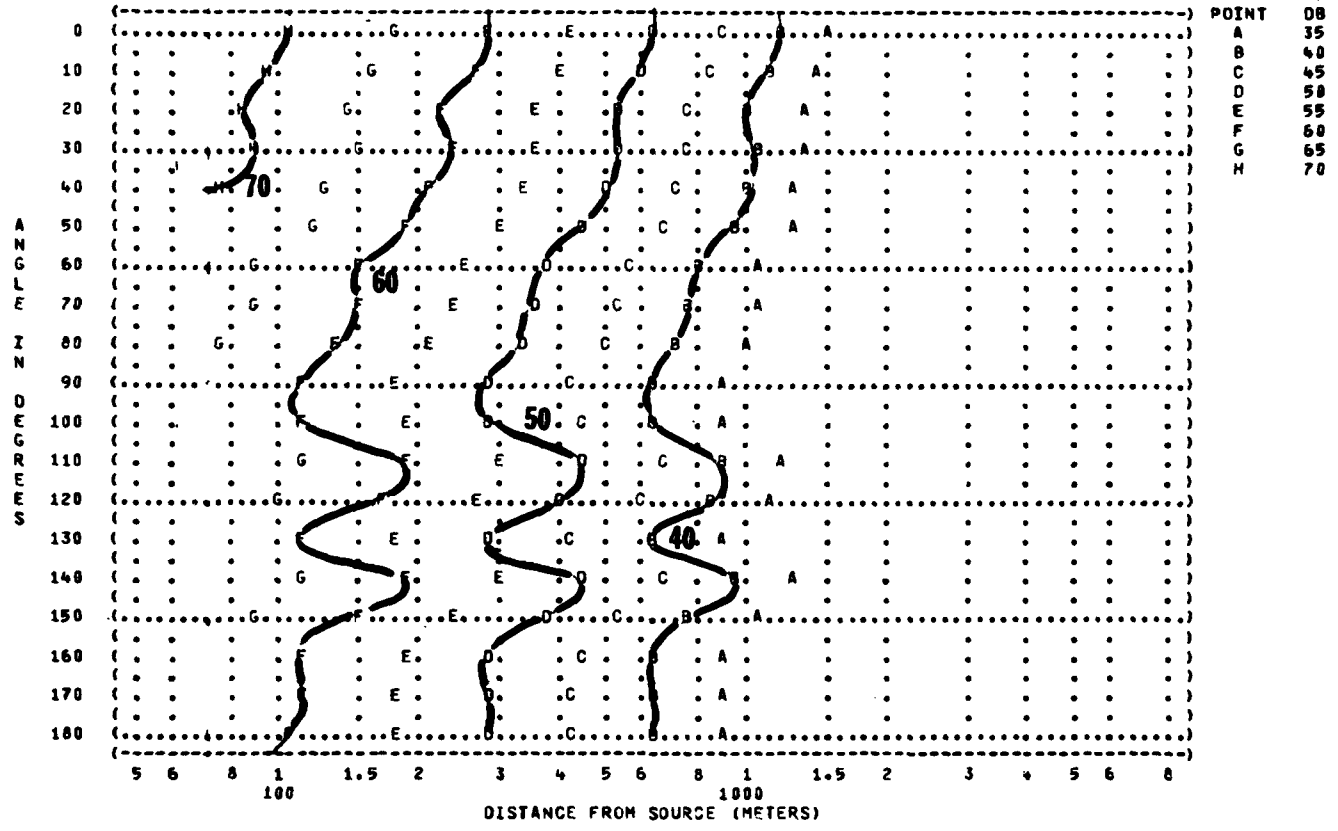
FIGURE: 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 04
26 OCT 81
PAGE 25



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE: 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-704-001
RUN 04
26 OCT 81
PAGE 26

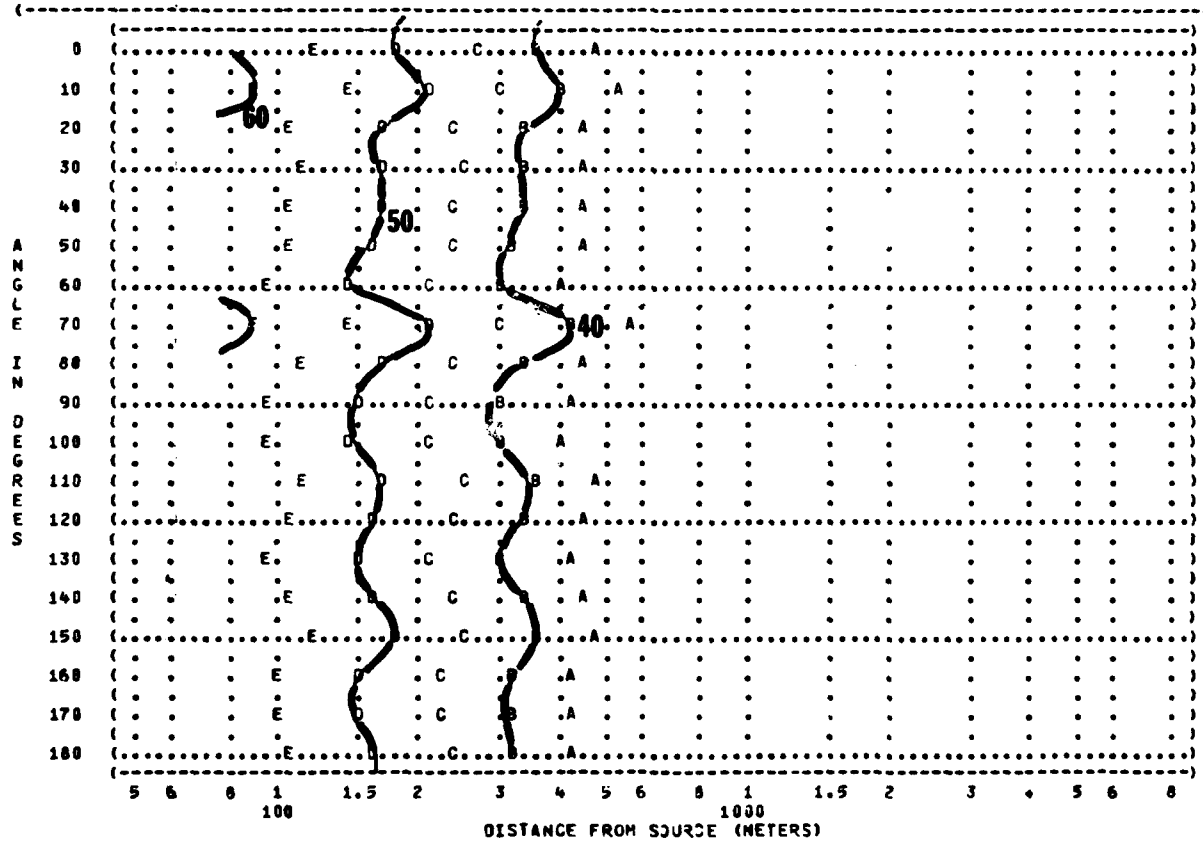


FIGURE 3.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (CB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-15 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST RF-704-001 RUN 04 26 OCT 81 PAGE 27

POINT	DB
A	35
B	40
C	45
D	50
E	55

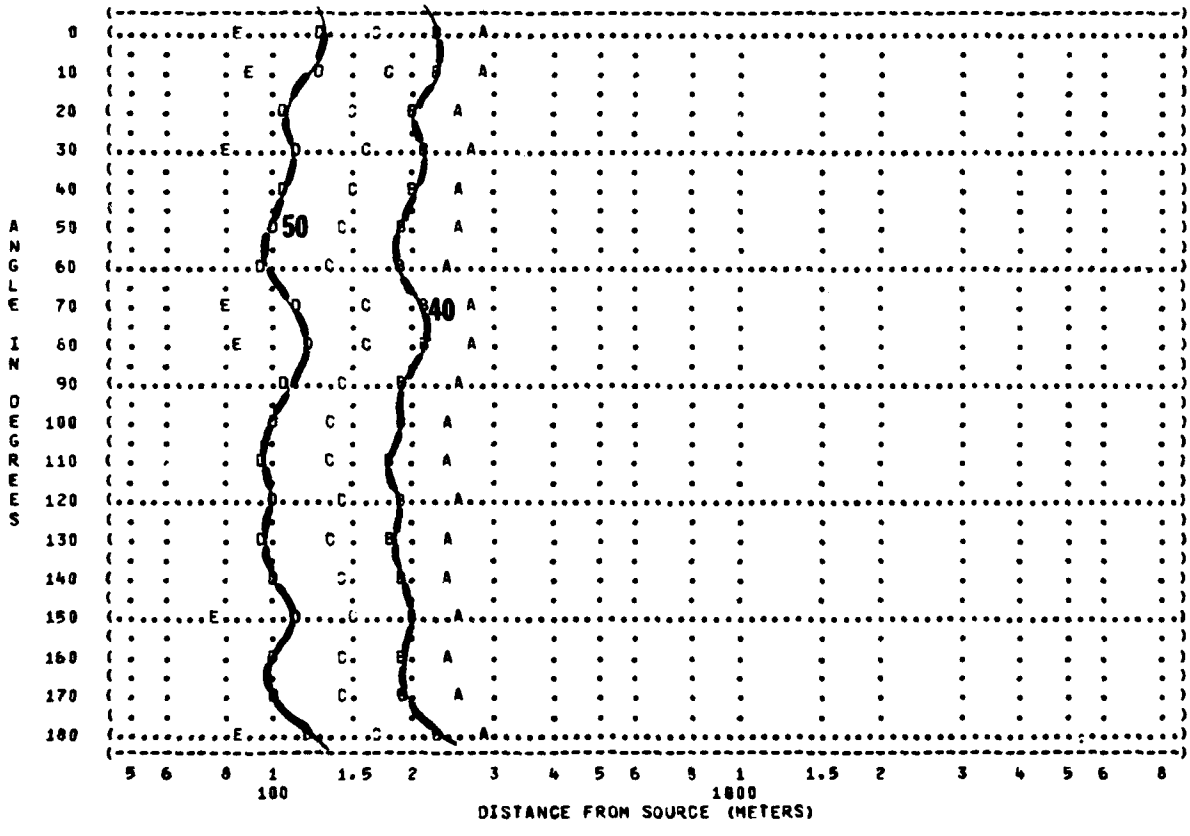


TABLE 4.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS F-16 AIRCRAFT IN THE ASE-TEXAS INC. HUSH-HOUSE, GROUND RUNUP KELLY AFB TEXAS, TEST #BF-705-001

Aircraft Engine Operation	Single Engine	
Idle	67	% RPM
	1000	LBS/HR FF
	450	FTIT
80%	80	% RPM
	4600	LBS/HR FF
	815	FTIT
Military Power	92	% RPM
	7200	LBS/HR FF
	925	FTIT
Afterburner Power	92	% RPM
	37,300	LBS/HR FF
	925	FTIT
Meteorology		
Temperature	31	C
Bar Pressure	.760	M Hg
Rel Humidity	62	%
Wind - Speed	2	M/Sec (4 Kts)
- Direction	170	Deg

TABLE: 4.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-785-001
RUN 01
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 31 C
BAR PRESS = .760 M HG
REL HUMID = 62 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5			61<	62<					65<	66<		59<	61<	62<	62<	62<	62<	62<	62<
16									63<	60<									
20									60<										
25									59<										
31.5			58<		57<														
40																			
50					59<							65<	62<	58<	58<	58<	58<	58<	58<
63											62<	65<							
80																			
100																			
125																			
160																			
200																			
250																			
315																			
400																			
500																			
630																			
800														43<	43<	43<	43<	43<	43<
1000	39<												40<	45<	45<	45<	45<	45<	45<
1250	46<	42<	39<		41<	39<							39<	44<	44<	44<	44<	44<	44<
1600	46<	46<	45<	44<	44<	41<	40<						39<	45<	45<	45<	45<	45<	45<
2000	40<													43<	43<	43<	43<	43<	43<
2500	46<	47	46<	44<	46<	45<	43<	39<					37<	41<	41<	41<	41<	41<	41<
3150	44	46	43<	41<	42<	41<	41<	38<	35<	32<			35<	38<	38<	38<	38<	38<	38<
4000	41	41	35<	33<	33<	33<	34<	35<	31<				31<	34<	34<	34<	34<	34<	34<
5000	45	43	38	39	36<	36<	36<	39	35<	30<		27<	29<	31<	31<	31<	31<	31<	31<
6300	43	40	37	38	35<	34<	32<	34<	30<	26<		27<	27<	28<	28<	28<	28<	28<	28<
8000	42	39	36	36	35	33<	32<	35	32<	29<	25<	29<	28<	28<	28<	28<	28<	28<	28<
10000	36	33<	30<	30<	27<	26<	26<	30<	27<	26<	24<	26<	25<						
OVERALL	54	53	63	62	61	49	47	45	69	63	62	69	64	64	64	64	64	64	64

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 4.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-081
RUN 02
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 31 C
BAR PRESS = .760 M M
REL HUMID = 62 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	75	72	75	74	74	74	72	74	75	76	77	77	77	75	75	75	75	75	75
16	70	71	71	72	74	72	74	78	78	76	74	77	76	78	78	78	78	78	78
20	67<	67<	69	70	72	72	73	76	76	76	77	79	76	76	76	76	76	76	76
25	65<	62<	65<	64<	66<	67	70	71	72	73	75	75	76	75	75	75	75	75	75
31.5	64<	61<	60<	62<	64<	64<	63<	64<	64<	65<	68	70	70	72	72	72	72	72	72
40	60<	61<	60<	62<	60<	63<	62<	64<	62<	61<	62<	65<	67<	68	68	68	68	68	68
50	59<				58<	57<	58<	62<	60<	58<	60<	61<	61<	64<	64<	64<	64<	64<	64<
63																			
80																			
100																			
125																			
160																			
200																			
250																			
315																			
400																			
500																			
630	43<			42<									43<	46<	46<	46<	46<	46<	46<
800	40<			41<									45<	49<	49<	49<	49<	49<	49<
1000	43<	39<		40<	40<	39<							47<	52	52	52	52	52	52
1250	45<	43<	40<	42<	43<	42<							47<	51	51	51	51	51	51
1600	46<	45<	43<	43<	43<	41<	39<						47<	53	53	53	53	53	53
2000	41<	40<											46<	51	51	51	51	51	51
2500				36<									43<	44<	44<	44<	44<	44<	44<
3150													40<	42<	42<	42<	42<	42<	42<
4000	29<							30<					37<	38<	38<	38<	38<	38<	38<
5000	35<	33<	31<	33<	31<	30<	28<	33<	31<			27<	35<	35<	35<	35<	35<	35<	35<
6300	34<	31<	32<	33<	30<	29<	27<	31<	29<	25<	24<	26<	32<	32<	32<	32<	32<	32<	32<
8000	30<	27<	27<	29<	28<	27<	26<	31<	29<	25<	27<	29<	30<	31<	31<	31<	31<	31<	31<
10000	29<	25<	27<	27<	27<	25<	24<	27<	26<	23<	25<	28<	25<	27<	27<	27<	27<	27<	27<
OVERALL	77	76	78	78	79	78	79	82	82	81	82	83	83	83	83	83	83	83	83

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 42 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 03
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 31 C
BAR PRESS = .760 M HG
REL HUMID = 62 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	84	84	83	83	82	84	84	85	85	86	85	87	87	84	84	84	84	84	84
16	82	82	82	82	83	83	85	85	86	87	88	88	86	87	87	87	87	87	87
20	79	78	80	81	82	84	85	85	85	86	88	87	83	87	87	87	87	87	87
25	71	70	74	75	80	77	79	82	83	82	85	85	87	87	87	87	87	87	87
31.5	72	68	69	72	75	75	73	74	75	76	81	82	83	84	84	84	84	84	84
40	70	73	72	73	76	75	75	75	73	72	75	77	80	81	81	81	81	81	81
50	69<	66<	68<	68<	71	72	72	73	72	71	70	70	74	75	75	75	75	75	75
63	63<					62<	62<	67<	68<	67<	70<	72<	72<	69<	69<	69<	69<	69<	69<
80								63<	66<	67<	65<	66<	68<	68<	68<	68<	68<	68<	68<
100	63<									63<	64<	66<	67<	65<	65<	65<	65<	65<	65<
125	62<																		
160	53<									58<	60<	60<	64<	66<	66<	66<	66<	66<	66<
200										57<	63<	60<	66	69	69	69	69	69	69
250										54<	57<	60<	64<	66	66	66	66	66	66
315	50<	48<	49<							49<	51<	53<	55<	60	60	60	60	60	60
400	53<	50<	49<	49<								49<	50<	56<	56<	56<	56<	56<	56<
500	58	59	53<	57	55<	55<	52<	55<	45<			47<	46<	52<	52<	52<	52<	52<	52<
630	58	56	53	55	53	54	52<	52<	47<	47<	44<	47<	48<	52<	52<	52<	52<	52<	52<
800	57	56	54	55	54	53	54	53	49<	50<	47<	49<	48<	56	56	56	56	56	56
1000	57	55	52	54	54	53	51	51	45<	45<	44<	47<	46<	55	55	55	55	55	55
1250	56	54	51	53	53	52	50<	49<	45<	46<	45<	49<	46<	55	55	55	55	55	55
1600	>>	53	49	51	51	50	48<	46<	45<	44<	44<	49	46<	55	55	55	55	55	55
2000	49<	48<	47<	48<	46<	44<	45<	44<	42<	43<	43<	47<	44<	52	52	52	52	52	52
2500	42<	42<	42<	44<	43<	41<	40<	40<	39<	41<	40<	43<	42<	49	49	49	49	49	49
3150	36<	37<	36<	37<	36<	37<	38<	43<	39<	43<	39<	42<	41<	48	48	48	48	48	48
4000	34<	35<	34<	35<	34<	35<	37<	47	38<	40<	38<	38<	39<	45	45	45	45	45	45
5000	36<	36<	33<	36<	34<	34<	36<	37<	37<	39	38<	37<	39	44	44	44	44	44	44
6300	35<	35<	33<	36	33<	34<	36	44	37	37	36	36	37	41	41	41	41	41	41
8000	34<	34<	32<	35	33<	33<	34<	41	36	37	36	37	37	41	41	41	41	41	41
10000	30<	30<	30<	31<	31<	31<	31<	42	35	34<	33<	33<	34<	37	37	37	37	37	37
OVERALL	88	87	87	87	88	89	90	91	91	92	93	93	94	94	94	94	94	94	94

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 4.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 84
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 31 C
BAR PRESS = .760 M HG
REL HUMID = 62 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	91	91	89	89	89	90	87	89	94	92	94	93	94	95	95	95	95	95	95
16	90	89	88	89	89	90	91	95	95	94	96	97	95	95	95	95	95	95	95
20	86	87	86	90	89	90	92	94	94	96	96	98	99	97	97	97	97	97	97
25	82	81	84	86	88	88	90	93	93	94	97	98	98	97	97	97	97	97	97
31.5	80	77	79	80	81	84	86	86	88	91	93	95	95	94	94	94	94	94	94
40	80	79	79	81	81	82	83	85	84	86	91	93	94	95	95	95	95	95	95
50	77	78	81	79	82	82	83	85	82	79	81	87	90	92	92	92	92	92	92
63	77	75	74	76	76	76	80	80	79	79	79	82	83	88	88	88	88	88	88
80	74	72<	72<	71<	72<	70<	75	75	75	76	79	83	79	82	82	82	82	82	82
100	76	73	70<	69<	69<	67<	73	70<	71<	75	74	76	75	78	78	78	78	78	78
125	74	70<	66<	65<	66<	63<	68<	67<	66<	69<	70<	70<	69<	71<	71<	71<	71<	71<	71<
160	68	64<	61<	63<	61<	62<	65<	63<	63<	66<	69	70	68	70	70	70	70	70	70
200	62<	60<	59<	60<	58<	58<	61<	61<	60<	64<	67	71	68	70	70	70	70	70	70
250	59<	58<	59<	59<	57<	55<	60<	59<	60<	62<	65	69	70	70	70	70	70	70	70
315	57<	55<	56<	55<	51<	50<	53<	54<	55<	58<	60	62	63	64	64	64	64	64	64
400	58	56<	54<	55<	51<	48<	49<	51<	53<	54<	56<	59	58	60	60	60	60	60	60
500	58	58	56<	57	55<	55<	52<	55<	52<	52<	54<	57	56<	58	58	58	58	58	58
630	58	57	55	55	53	55	52<	54	53	52<	53	56	53	57	57	57	57	57	57
800	56	55	53	55	53	53	53	54	52	53	53	58	55	57	57	57	57	57	57
1000	58	57	54	55	55	55	52	52	52	51	52	59	56	57	57	57	57	57	57
1250	59	59	56	57	57	56	53	54	53	52	52	61	55	57	57	57	57	57	57
1600	60	58	55	56	57	55	53	51	53	51	51	61	53	55	55	55	55	55	55
2000	55	54	53	54	52	51	51	49<	51	49<	49<	58	51	52	52	52	52	52	52
2500	47	48	49	50	51	47	46	45<	46	46<	46<	53	48	49	49	49	49	49	49
3150	44	42<	42<	44	44	43	45	46	46	46	45	49	47	48	48	48	48	48	48
4000	42	41	41	43	40<	41	43	44	45	44	44	46	45	46	46	46	46	46	46
5000	44	42	40	42	40	40	41	43	45	44	44	44	44	45	45	45	45	45	45
6300	42	42	40	42	40	39	40	42	44	43	43	42	43	44	44	44	44	44	44
8000	41	40	39	41	39	37	39	43	43	43	43	43	44	44	44	44	44	44	44
10000	37	36	35	37	36	34<	36	40	41	41	42	40	43	43	43	43	43	43	43
OVERALL	95	95	94	95	95	96	97	100	101	101	103	104	104	104	104	104	104	104	104

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

FIGURE 41: NORMALIZED FARFIELD NOISE LEVELS

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:	IDENTIFICATION:
F-16 AIRCRAFT IN THE	IDLE POWER (68%)	TEMP = 15 C	
TEXAS ASE HUSH HOUSE	SINGLE ENGINE	BAR PRESS = .760 M HG	OMEGA 1.4
F100-PW-100 ENGINE	GROUND RUNUP IN THE	REL HUMID = 70 %	TEST BF-705-081
FAR FIELD NOISE	TEXAS ASE HUSH HOUSE		RUN 01
			26 OCT 81
			PAGE 6

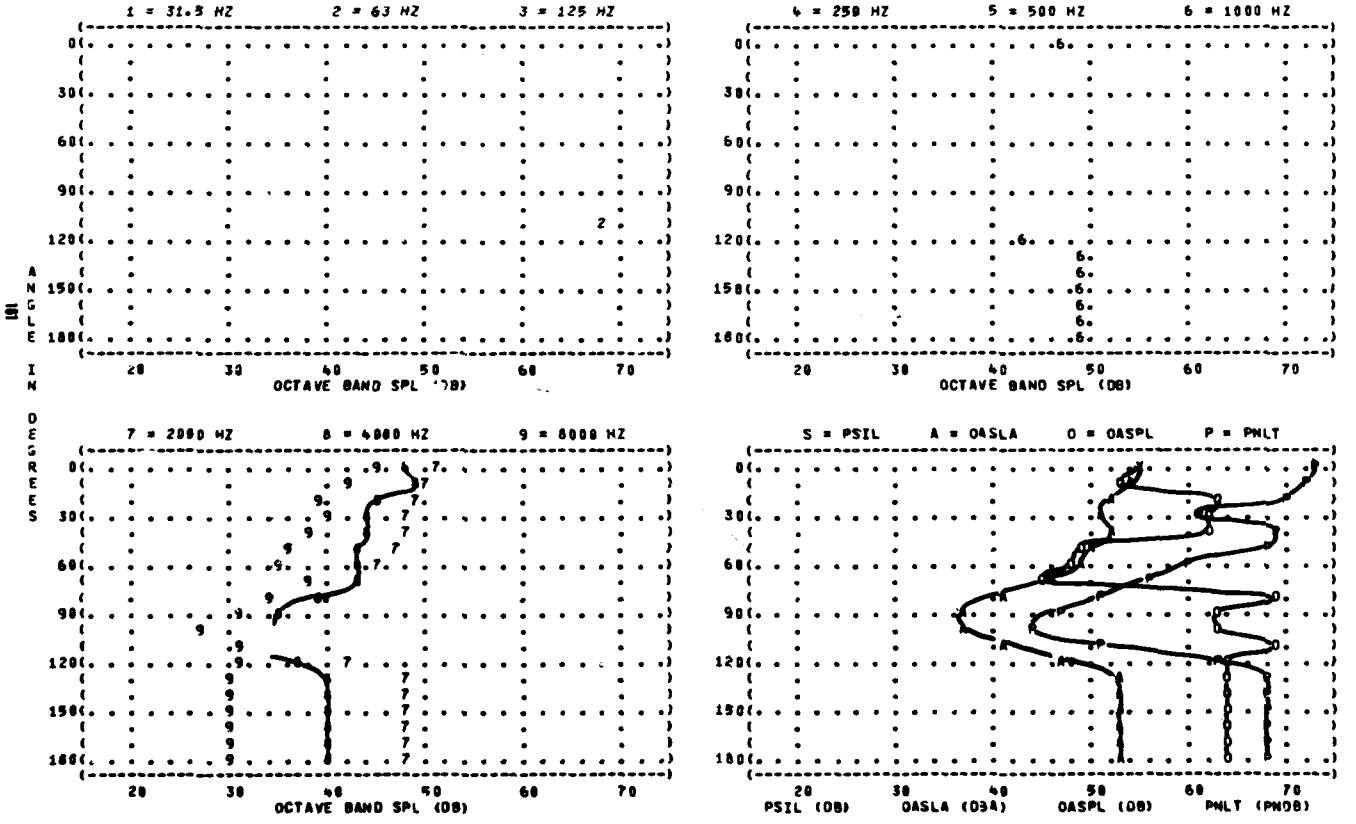


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

4.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-705-001
RUN 02

26 OCT 81

PAGE 6

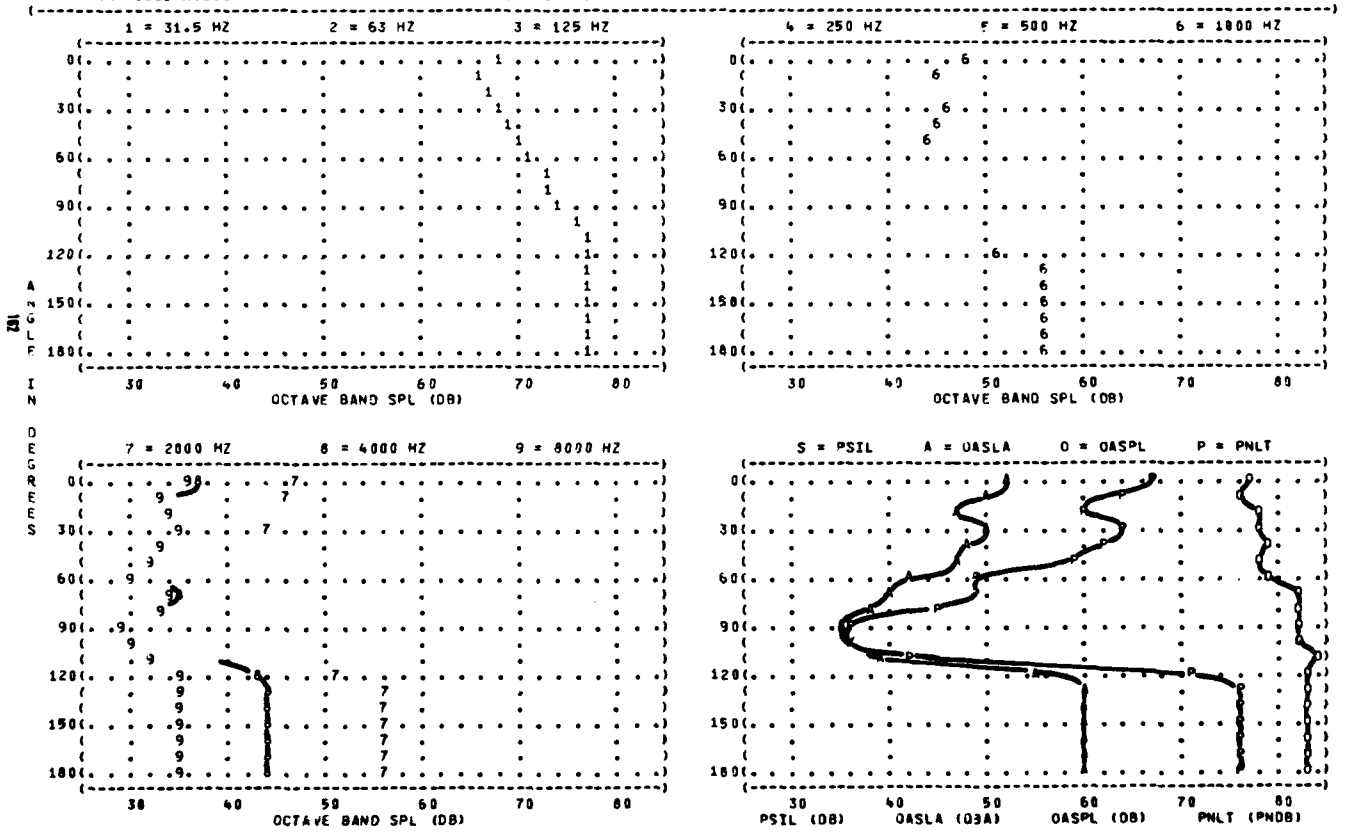


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

4.1

DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 03
26 OCT 81
PAGE 6

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

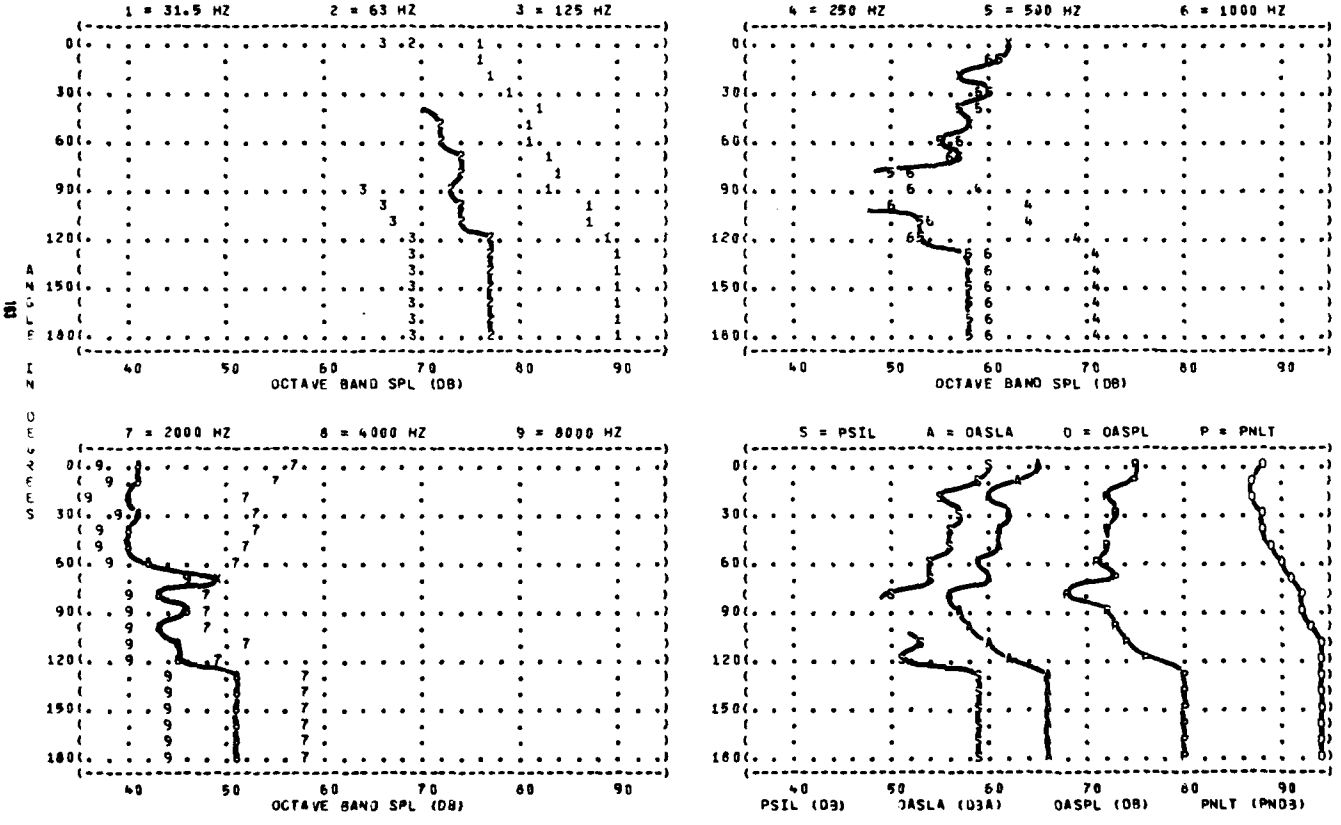


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

4.1

DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 04
26 OCT 81
PAGE 6

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-P4-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

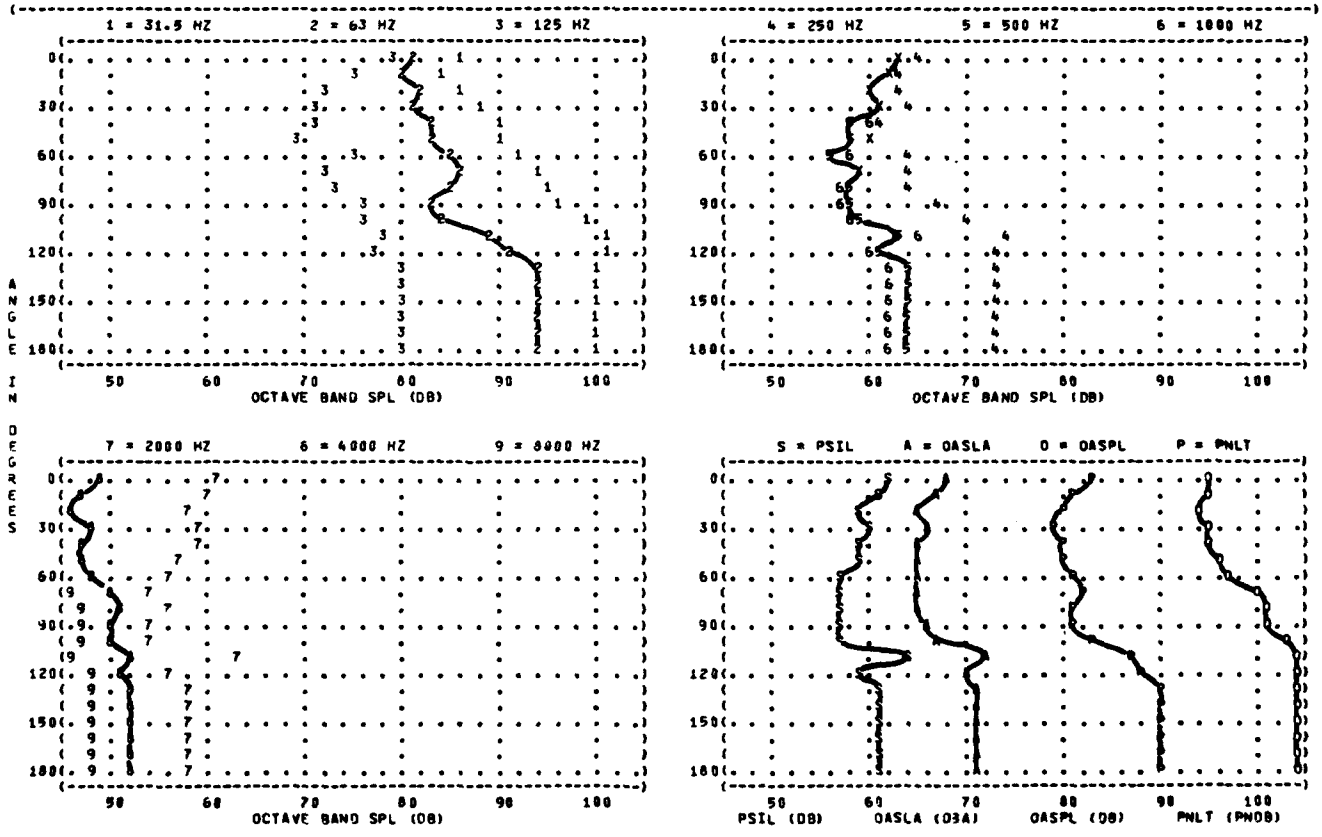


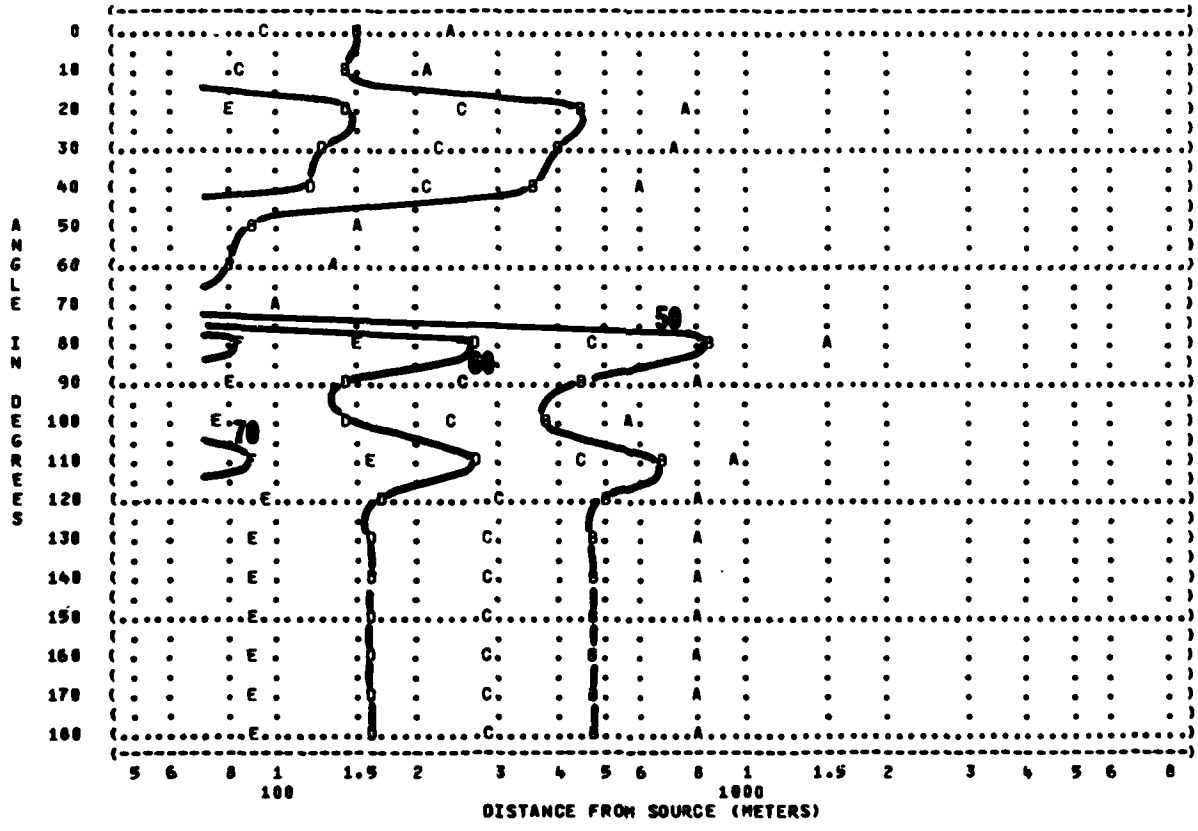
FIGURE: 42 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 01
26 OCT 81
PAGE 13



POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70

FIGURE: 4.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (D3)

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 02
26 OCT 81
PAGE 13

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

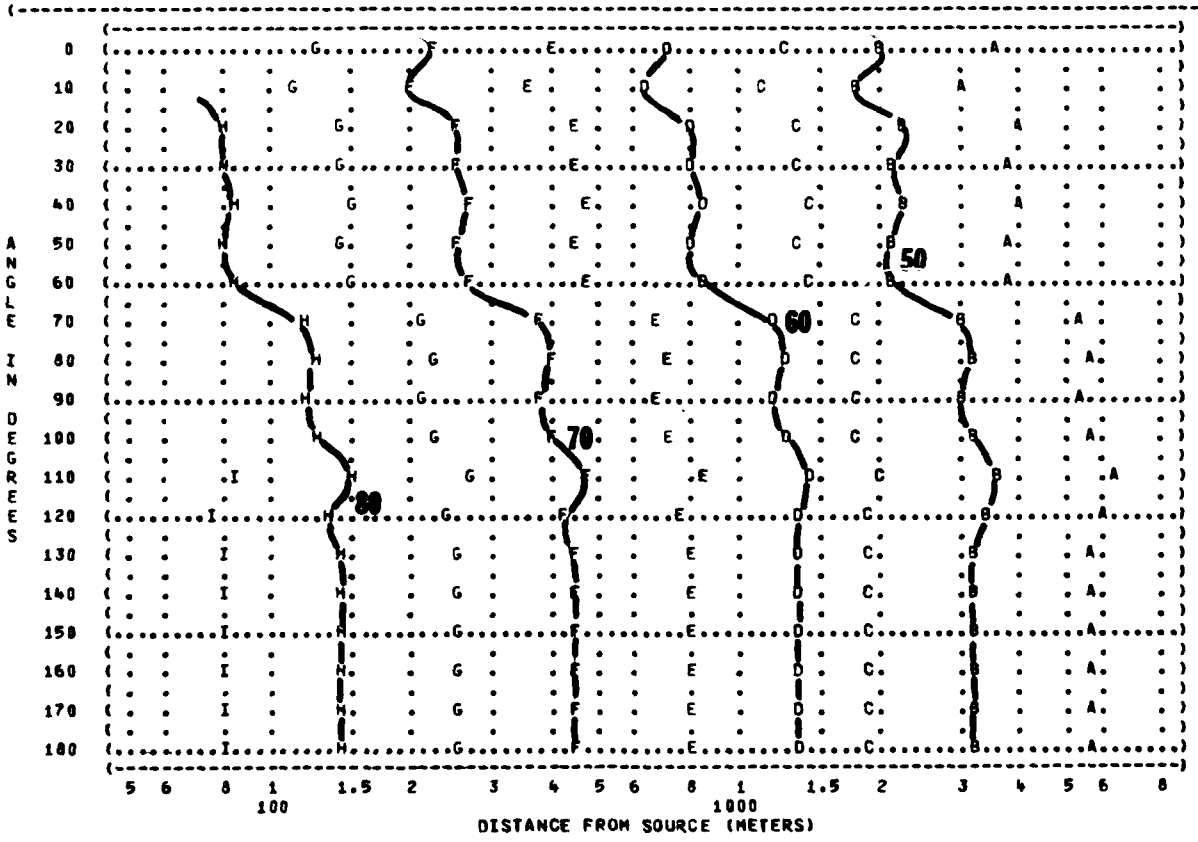


FIGURE: 4.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 03
26 OCT 81
PAGE 13

POINT	DB
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95

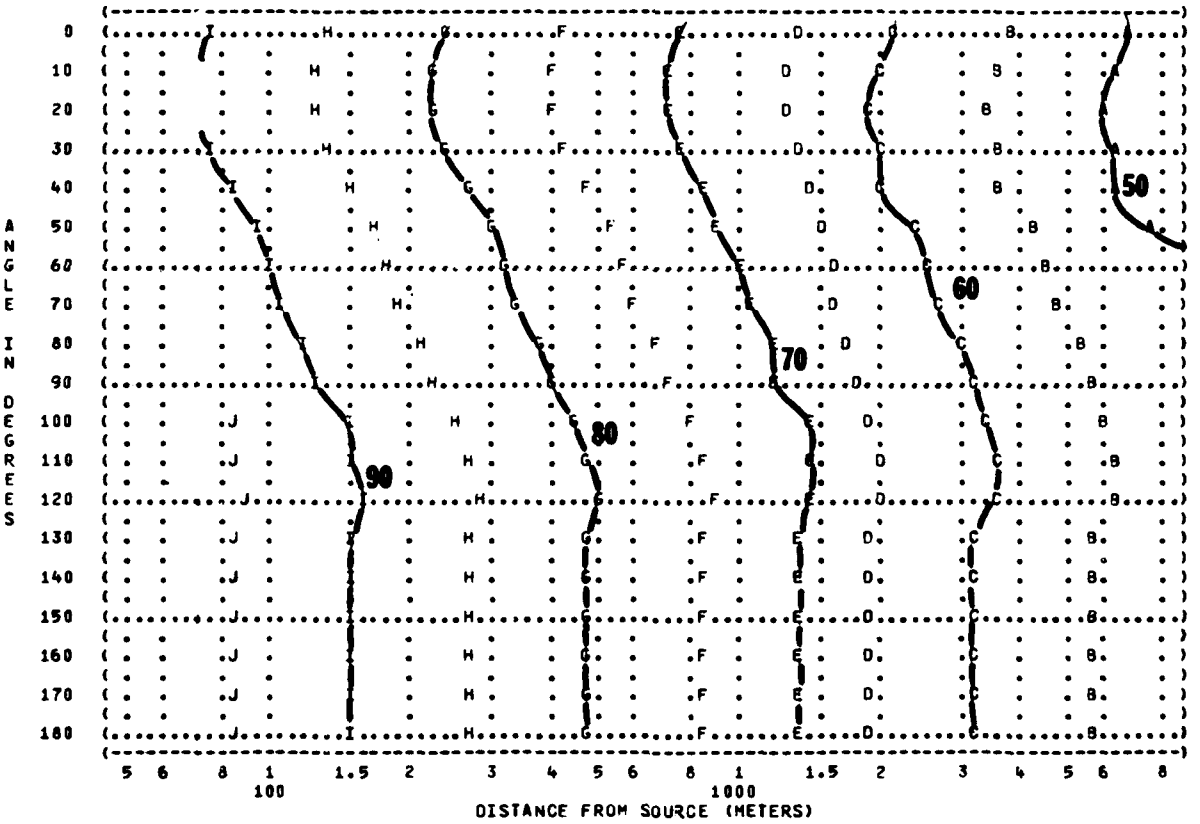


FIGURE: 4.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .768 M HG
REL HUMID = 78 %

IDENTIFICATION:
OMEGA 1.4
TEST OF-705-081
RUN 04
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PAGE 13

POINT	DB
A	55
B	60
C	65
D	70
E	75
F	80
G	85
H	90
I	95
J	100
K	105

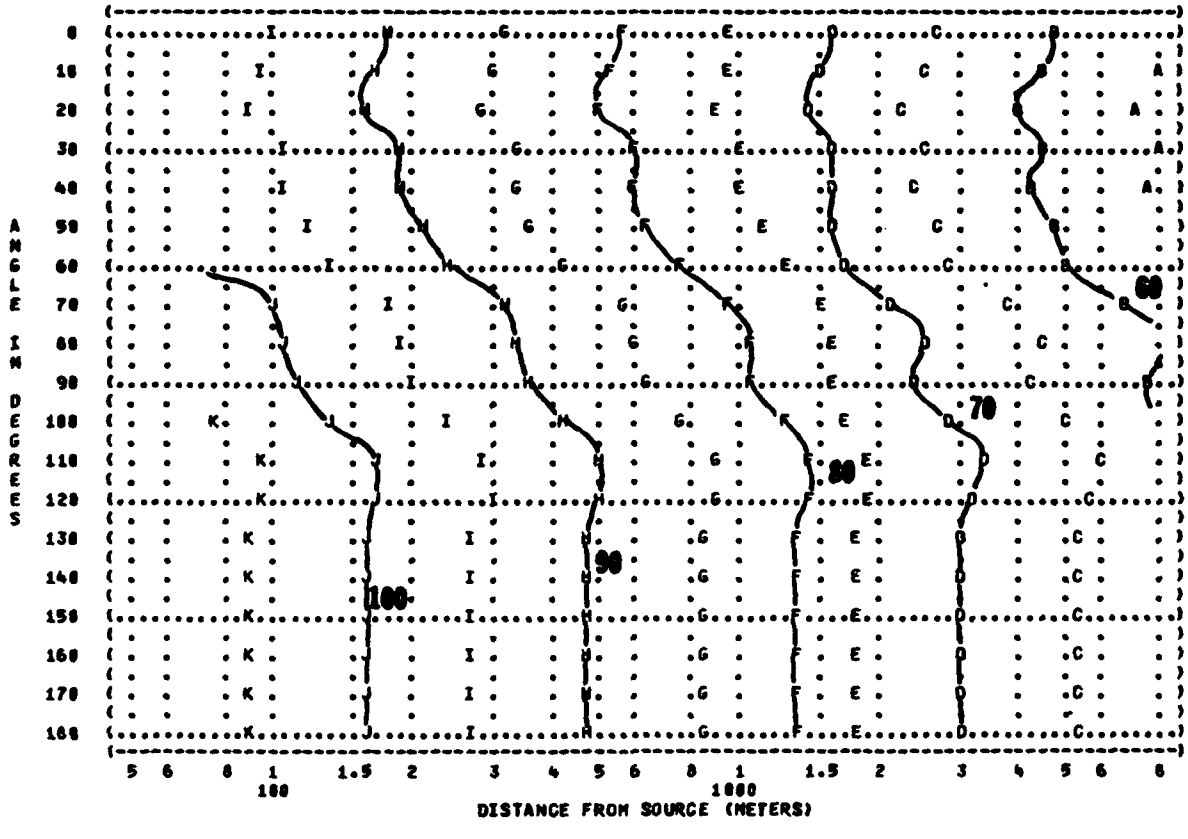

FIGURE: 43 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-081
RUN 01
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65

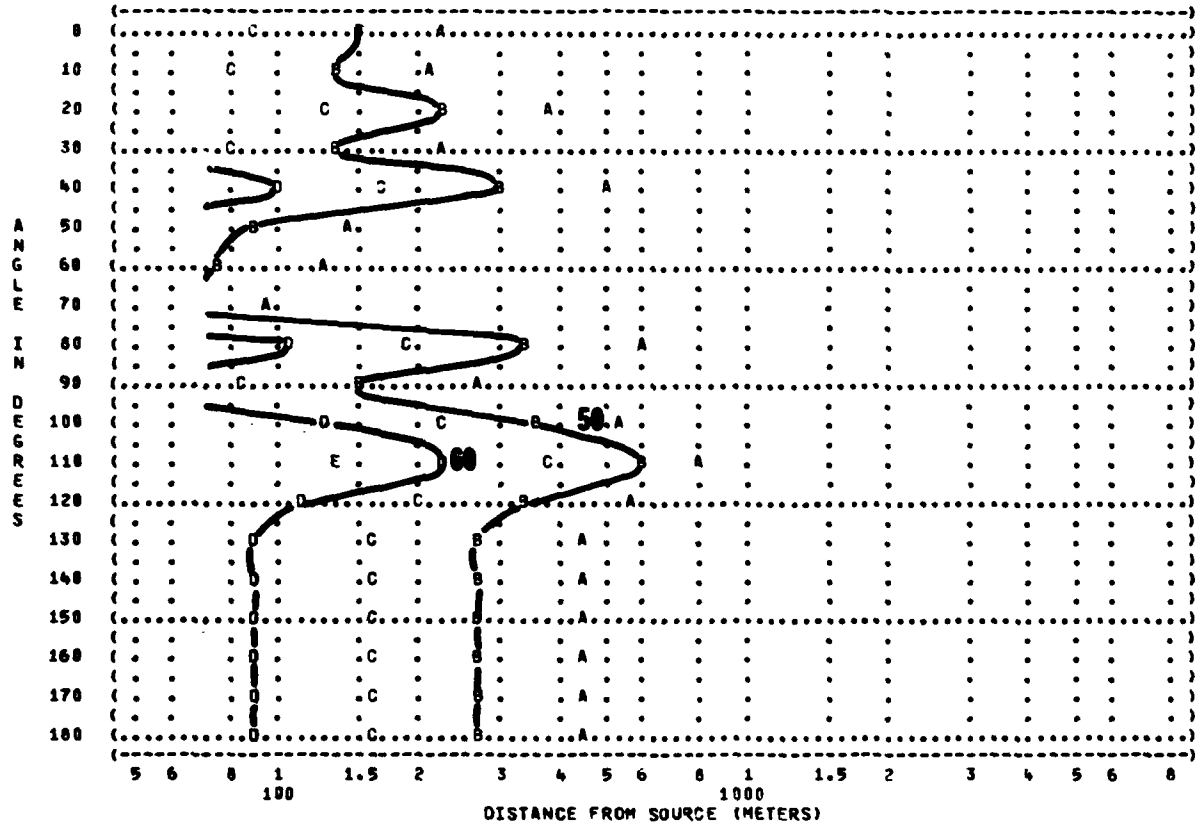

FIGURE: 4.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 02
26 OCT 81
PAGE 14

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75

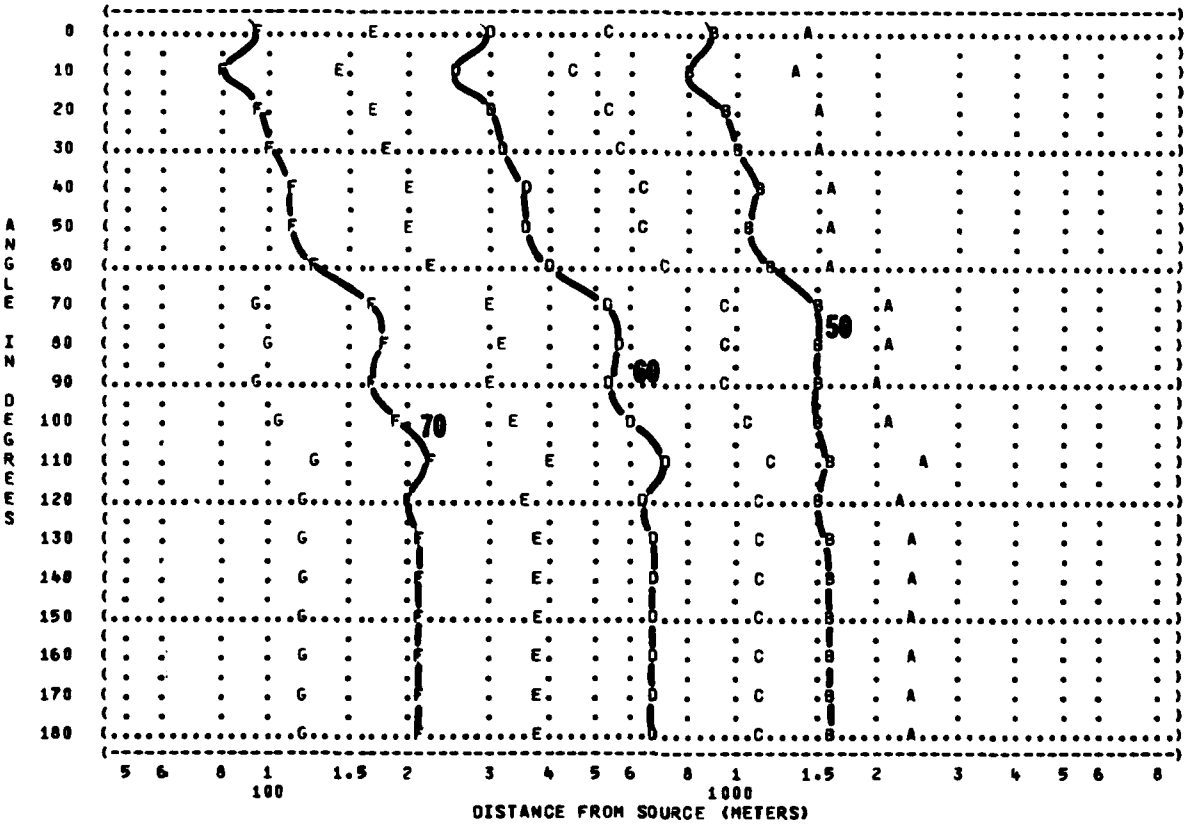

FIGURE 4.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 03
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90

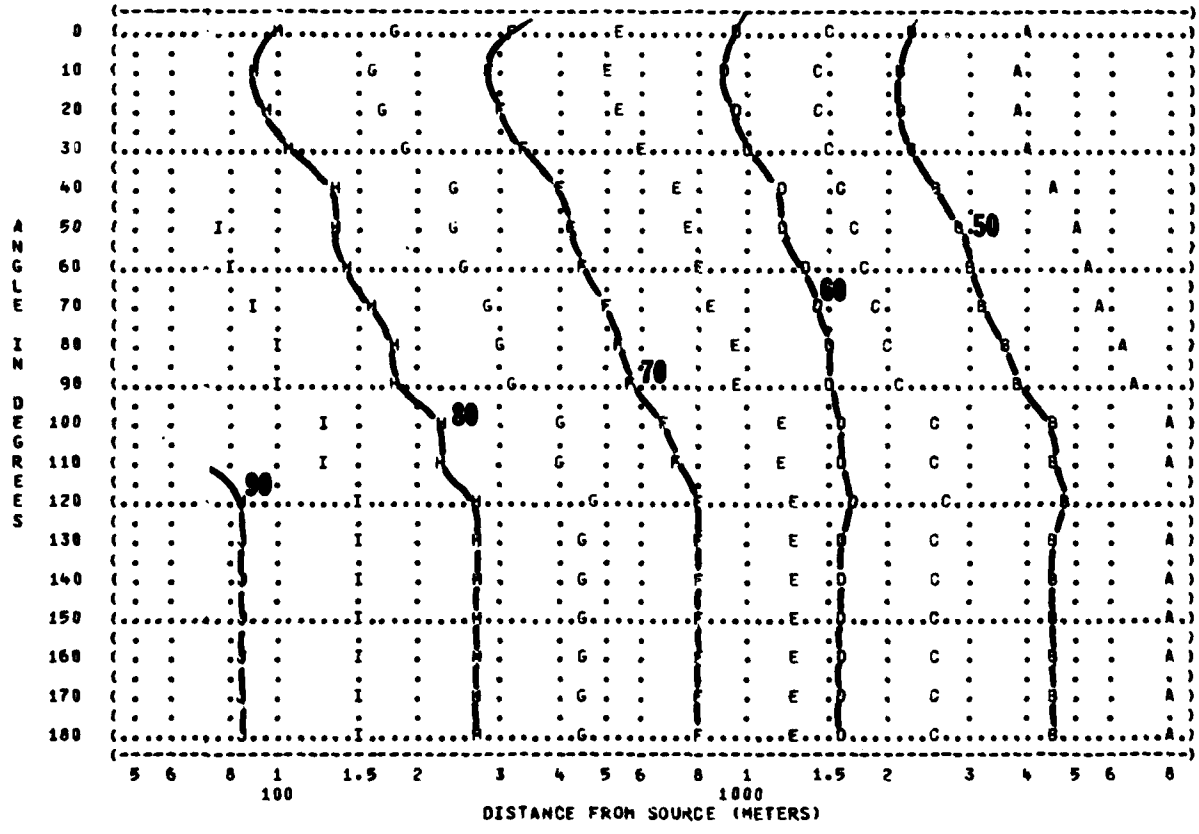

FIGURE: 4.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (OBC)

IDENTIFICATION:
OMEGA 1.4
TEST AF-785-001
RUN 04
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	OBC
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95
K	100

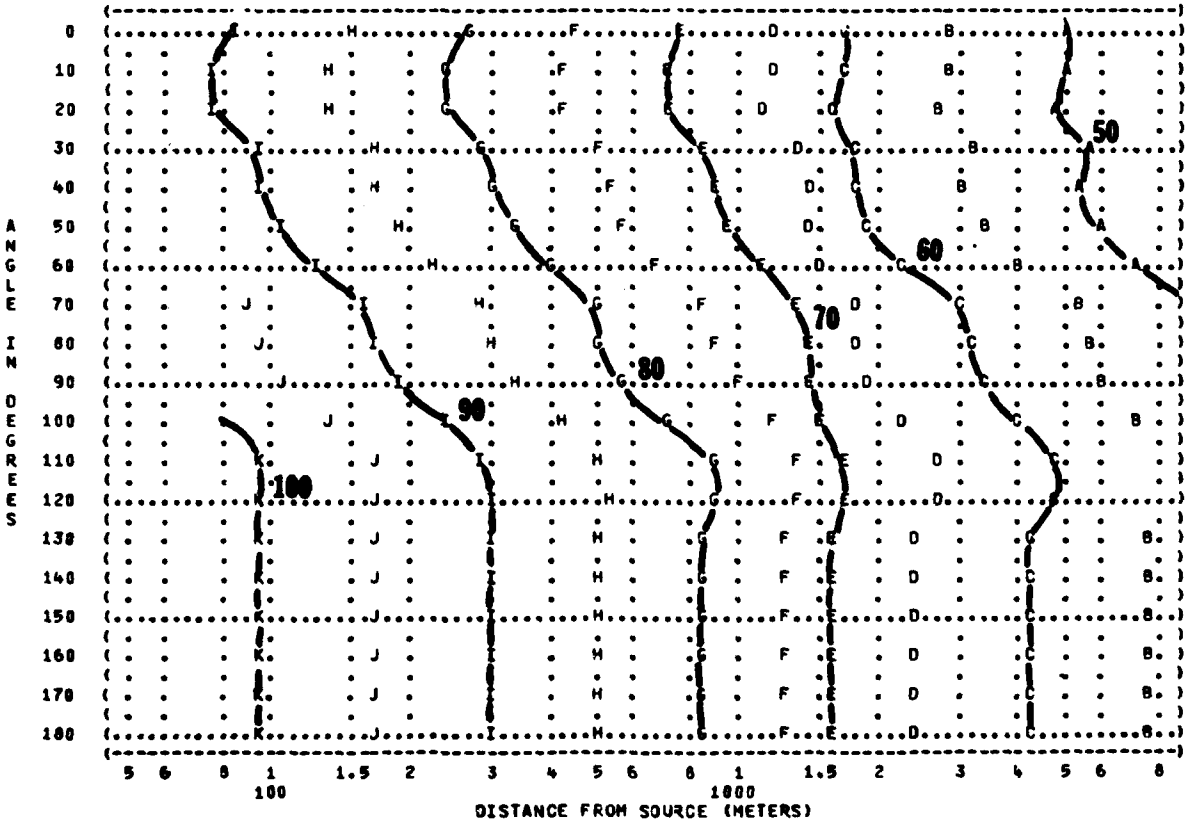

FIGURE: 4A A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 01
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M MG
REL HUMID = 78 %

POINT	DBA
A	45
B	58
C	55

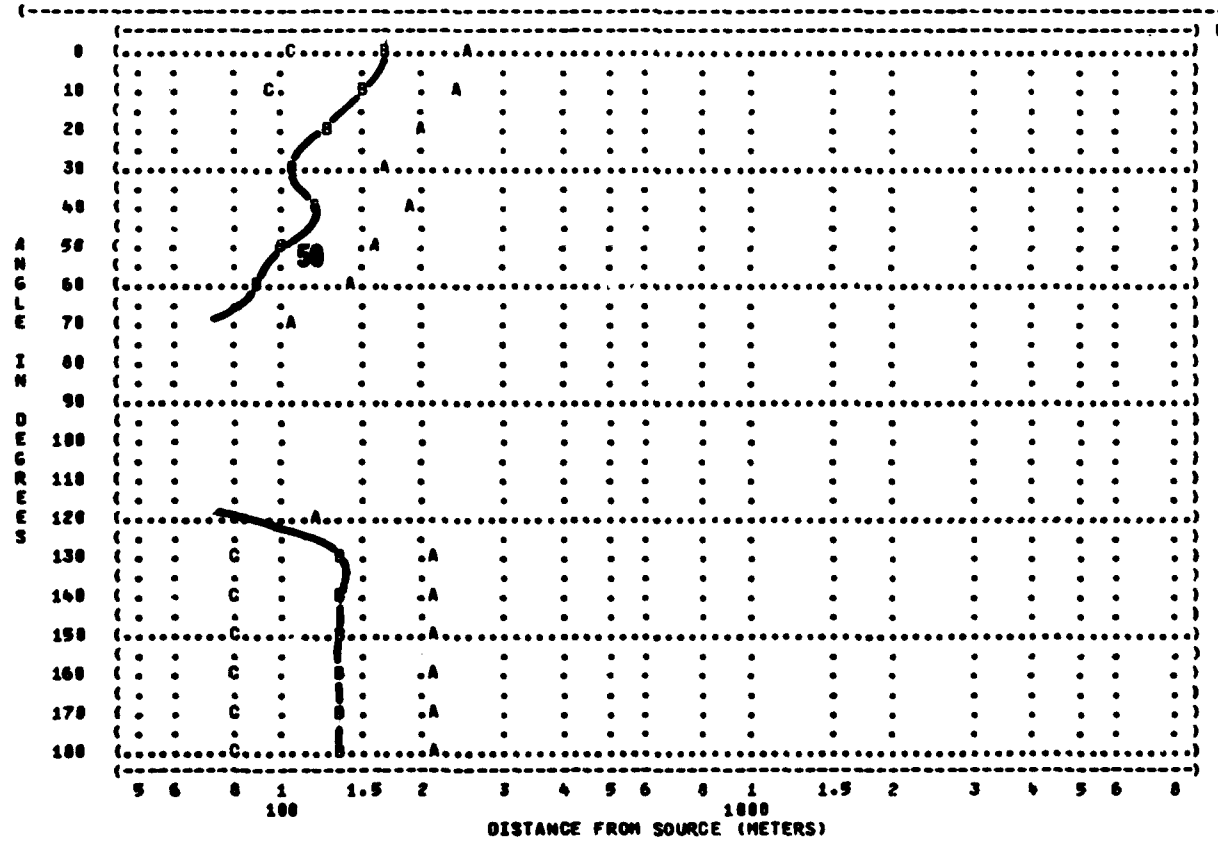

FIGURE: 4.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-705-001
RUN 02
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60

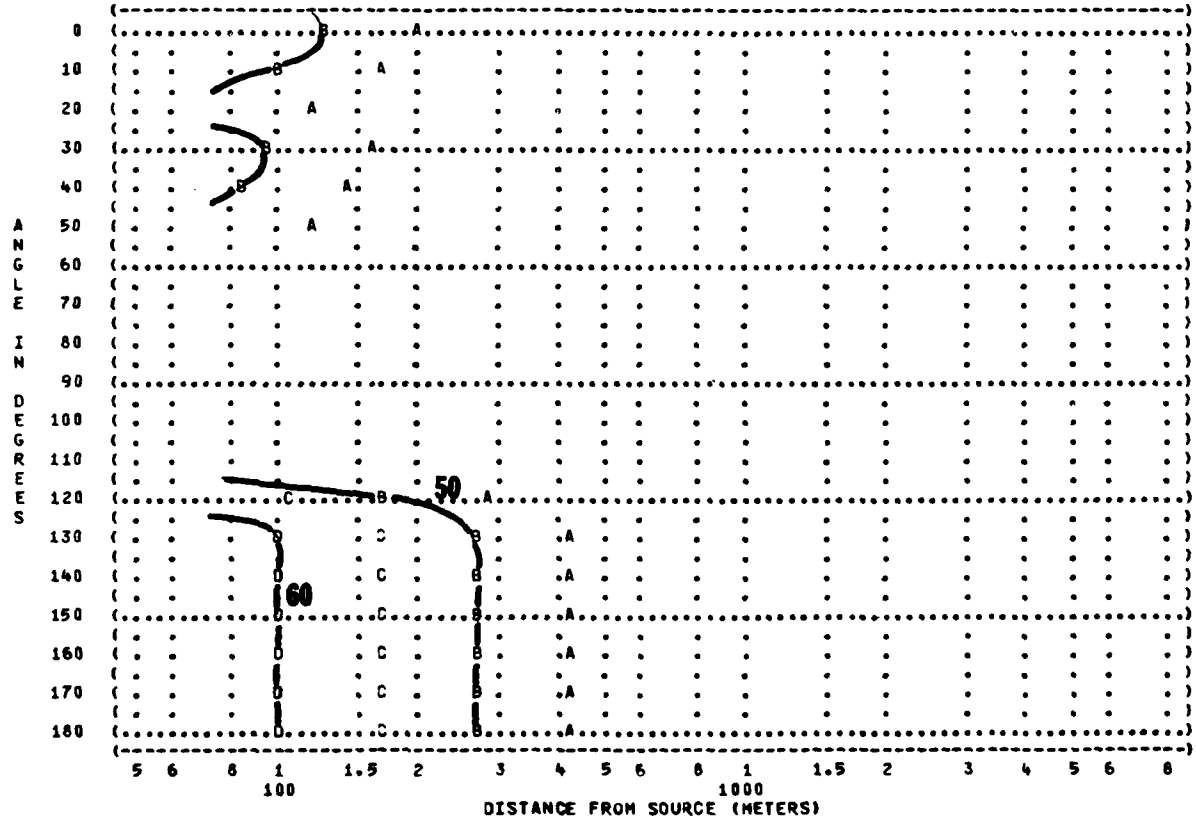

FIGURE: 4.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 03
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	OBA
A	45
B	50
C	55
D	60
E	65

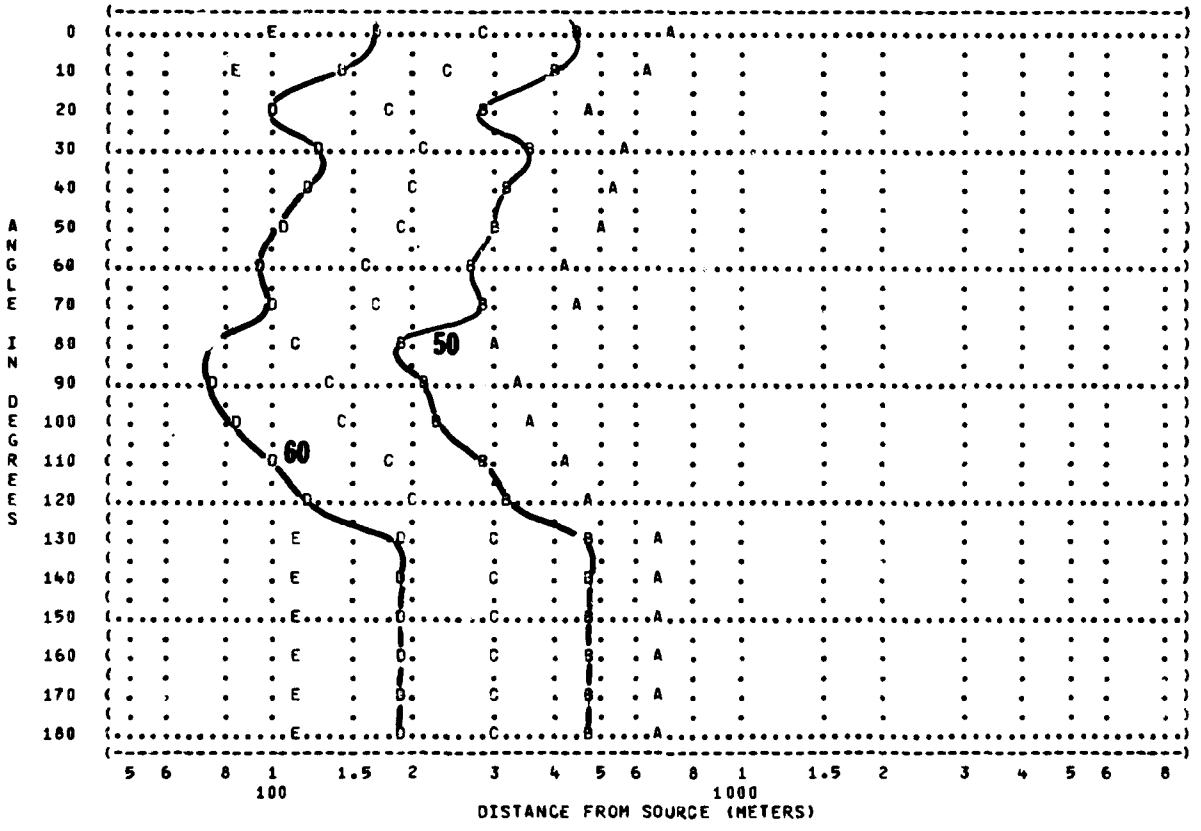

FIGURE 4.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST SF-705-001
RUN 04
26 OCT 81
PAGE 15

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70

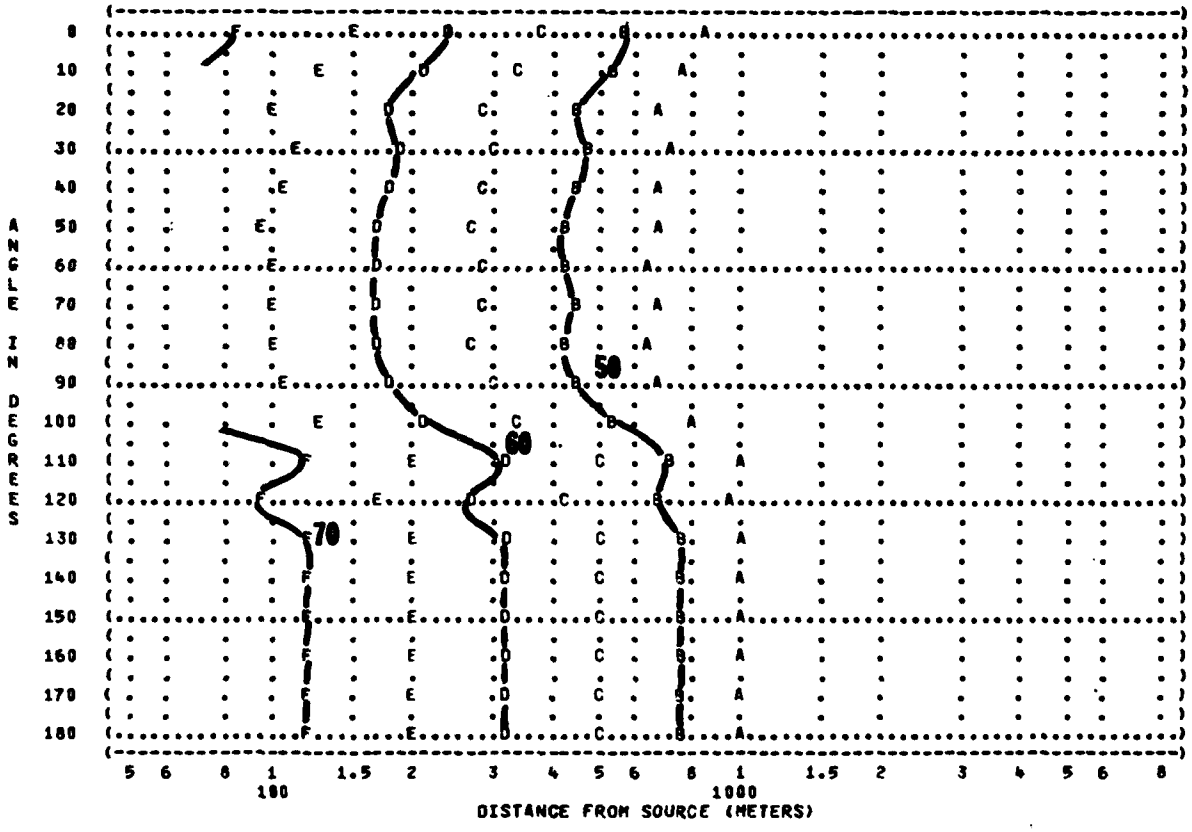

FIGURE: 4.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 01
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75

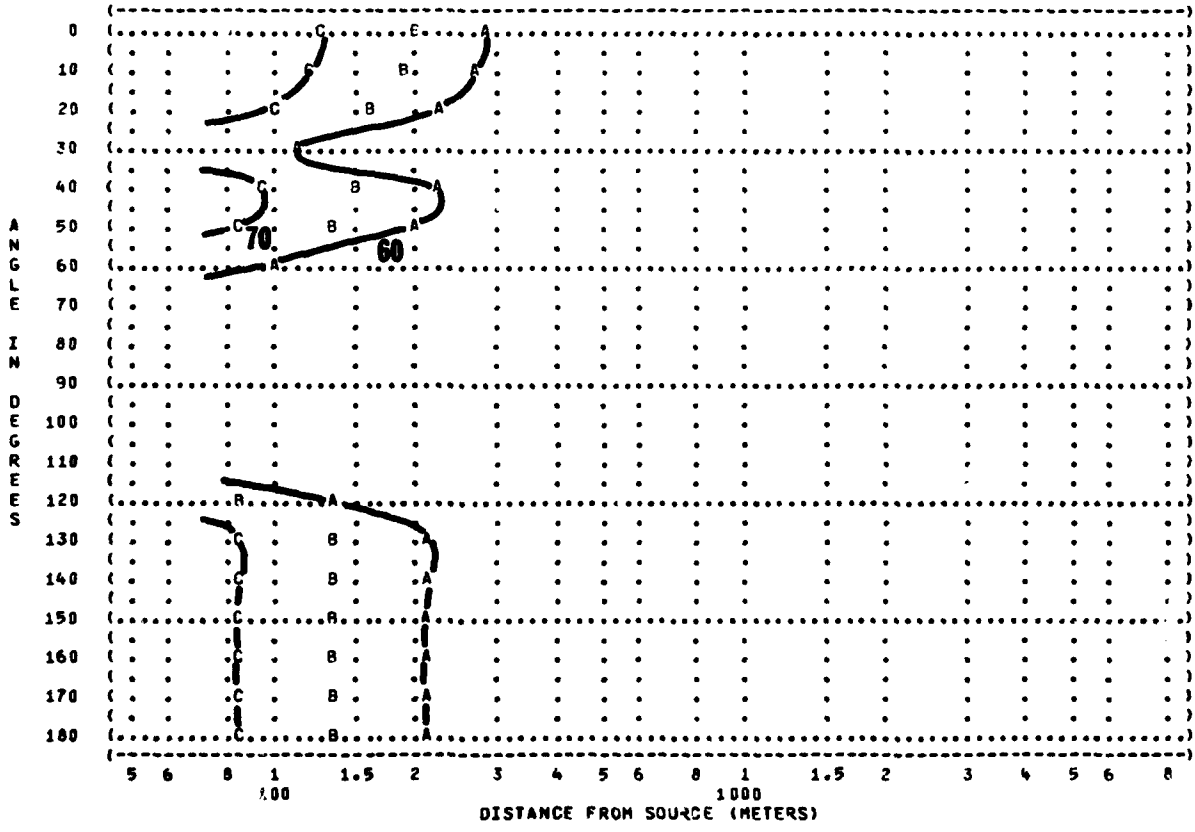

FIGURE 4.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION: OMEGA 1.4 TEST BF-705-001 RUN 02 26 OCT 81 PAGE 16

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75

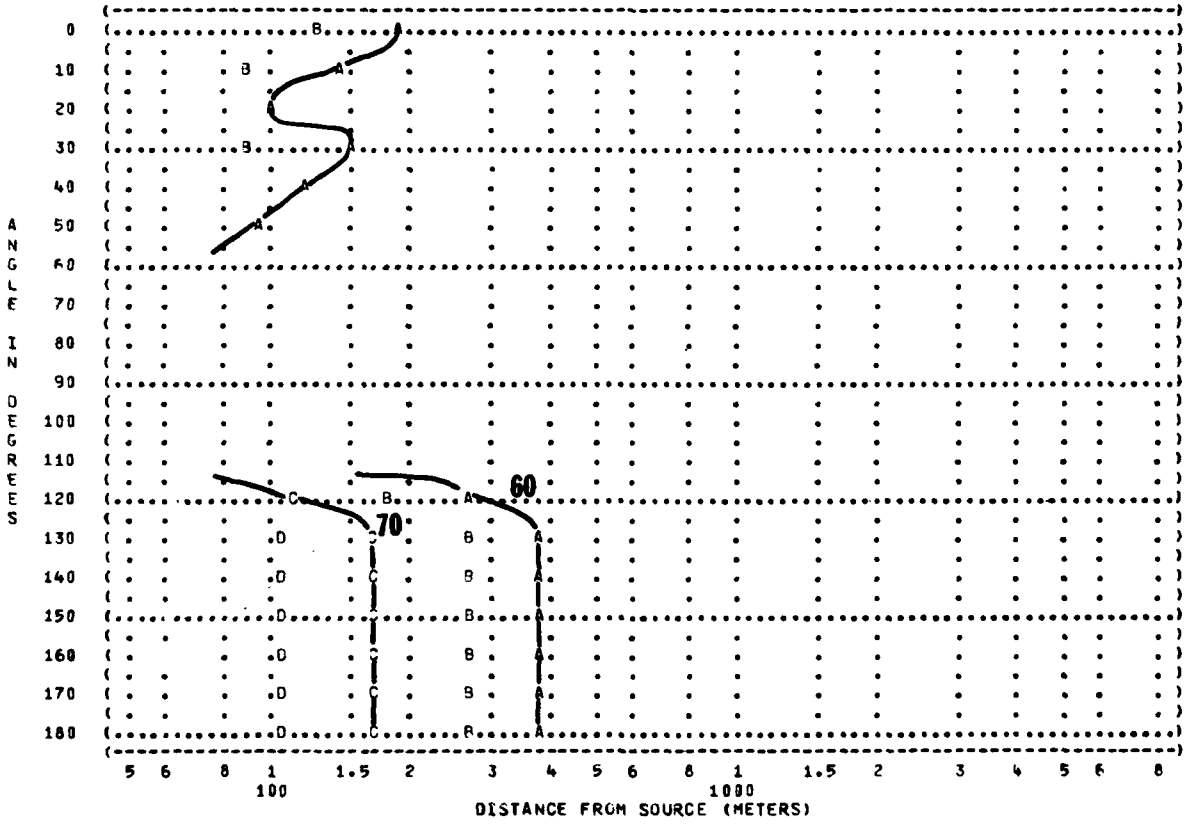

FIGURE: 4.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNdB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 03
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-15 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNdB
A	60
B	65
C	70
D	75
E	80

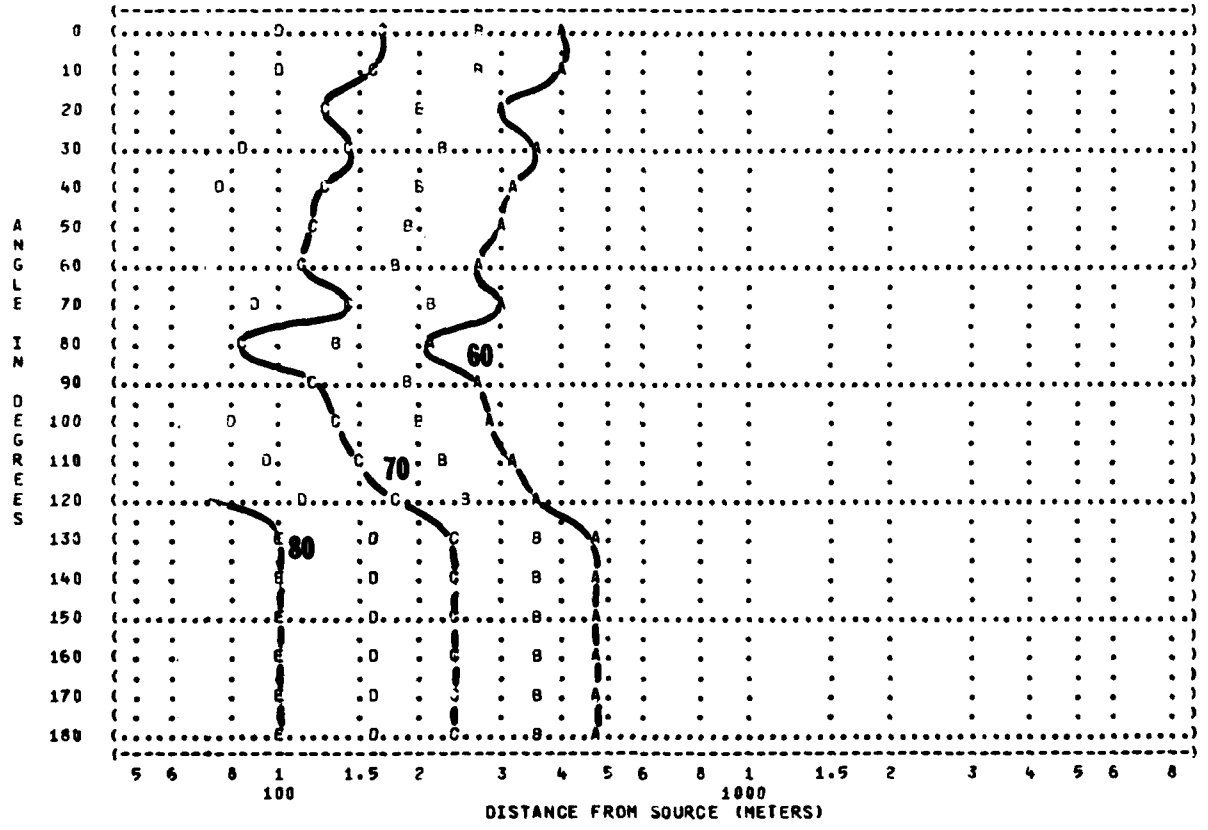


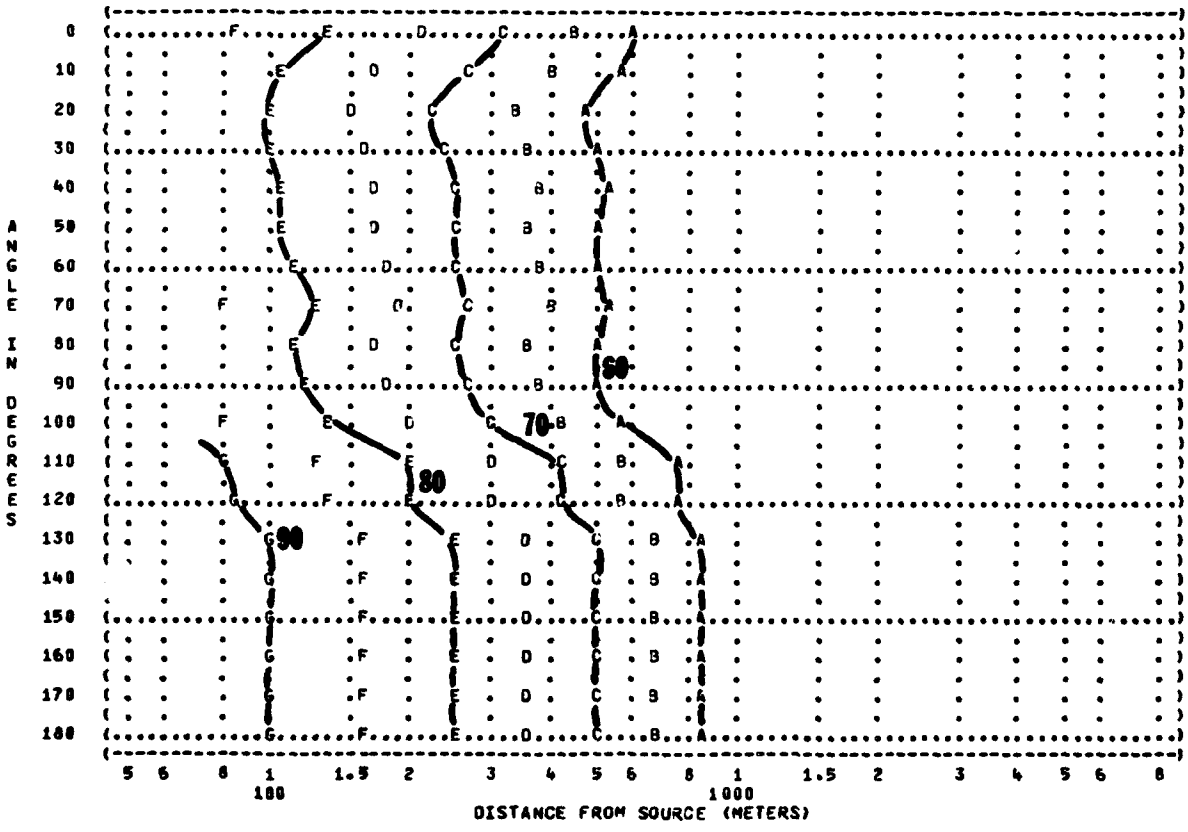
FIGURE 45 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-785-081 RUN 04 26 OCT 81 PAGE 16



POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85
G	90

FIGURE: 46 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)				IDENTIFICATION: OMEGA 1.4 TEST BF-705-001
NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE	OPERATION: IDLE POWER (68%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %		RUN 01 26 OCT 81 PAGE 17

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE: 46 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)				IDENTIFICATION: OMEGA 1.4 TEST BF-705-001 RUN 02 26 OCT 81 PAGE 17
NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE	OPERATION: 80% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %		

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE: 4.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (D3)

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 03
26 OCT 81
PAGE 17

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

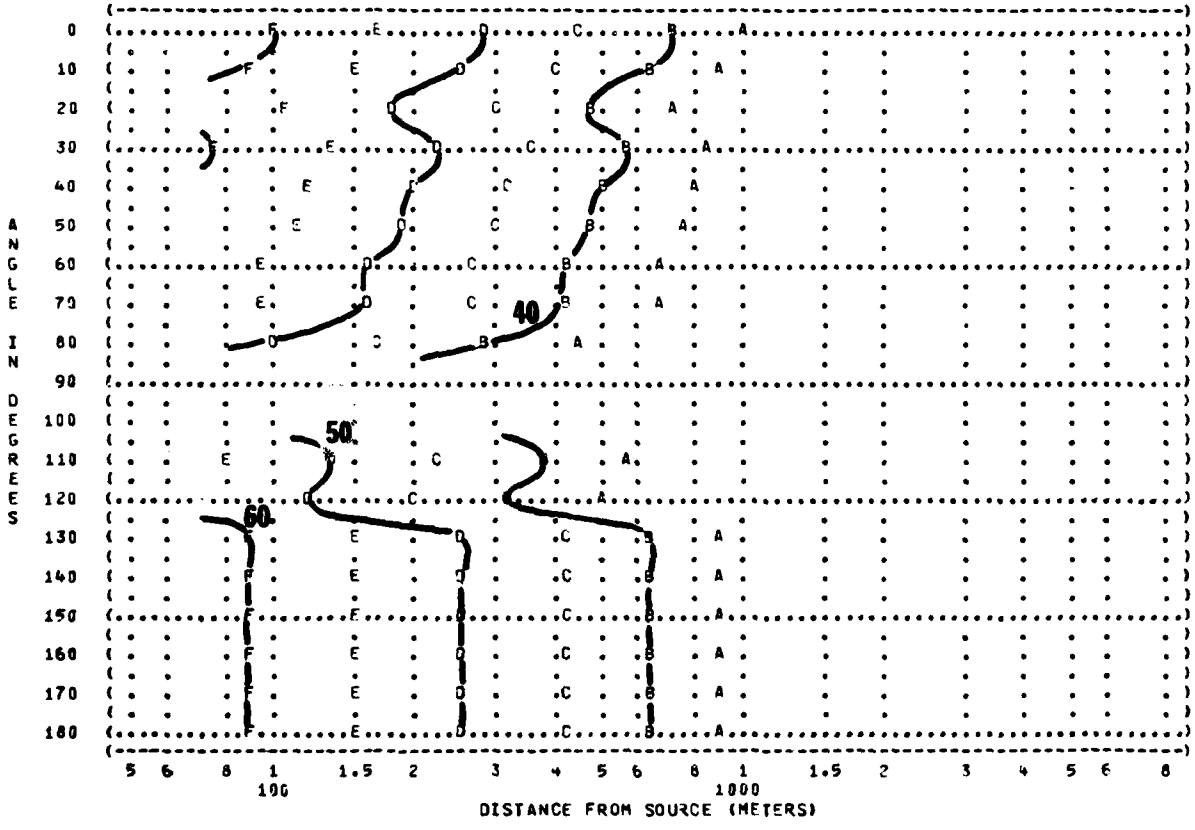


FIGURE: 4.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M MG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 04
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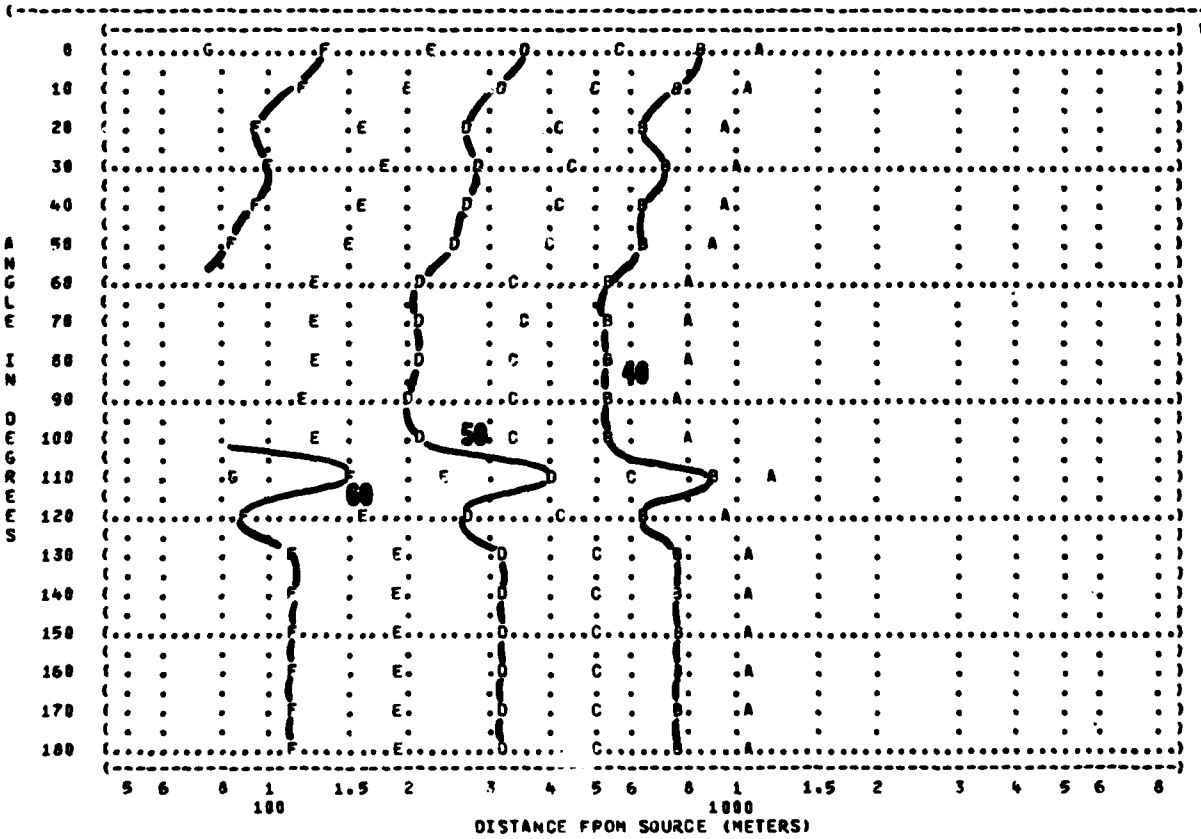
PAGE 17



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

FIGURE: 4.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
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NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

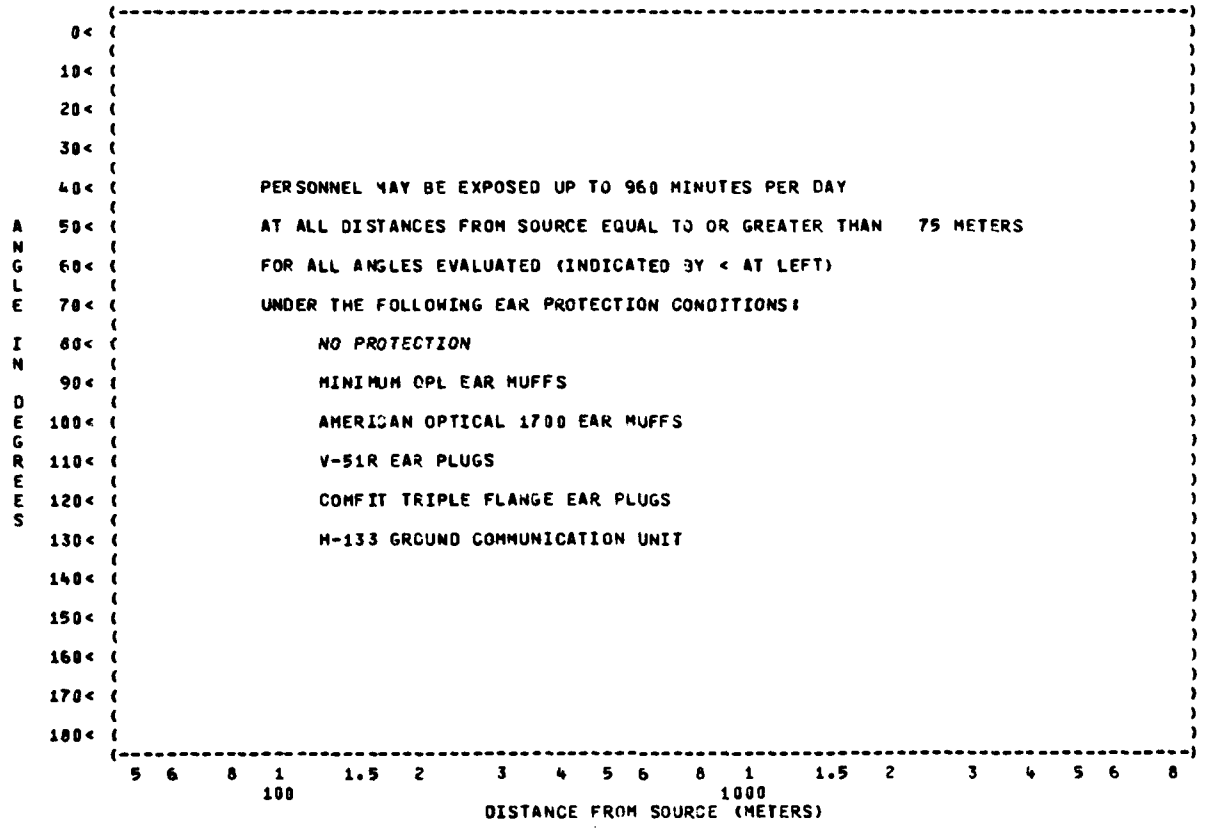

FIGURE: 4.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
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NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG RFL HUMID = 70 %

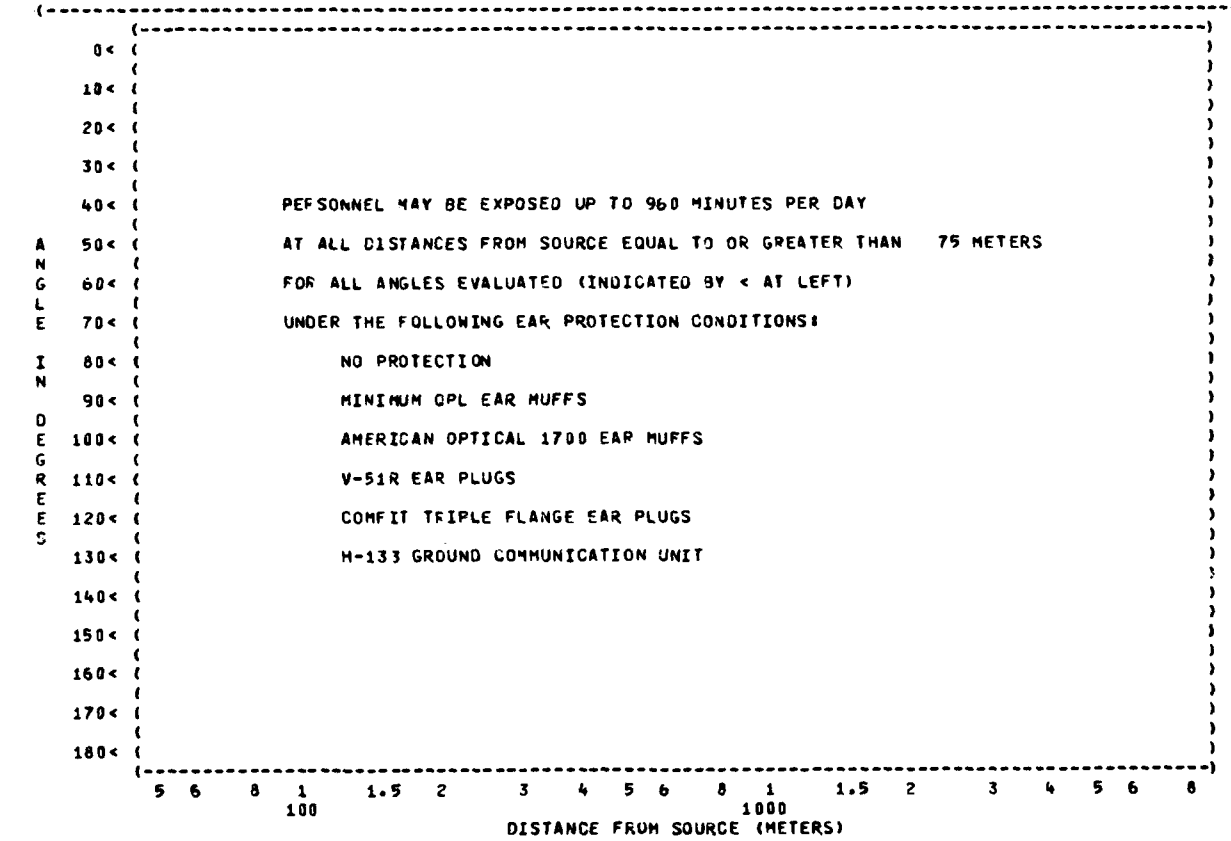

FIGURE 4.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
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NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

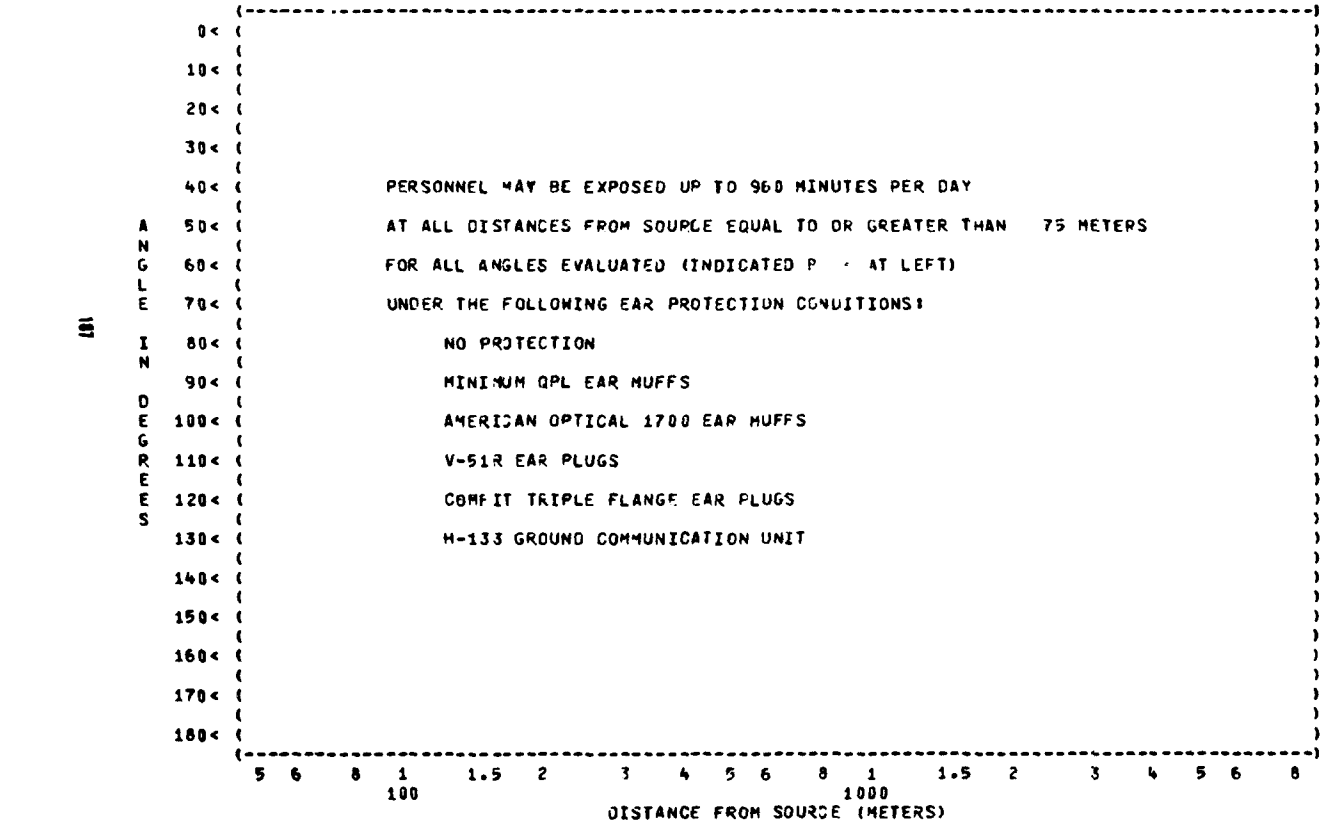


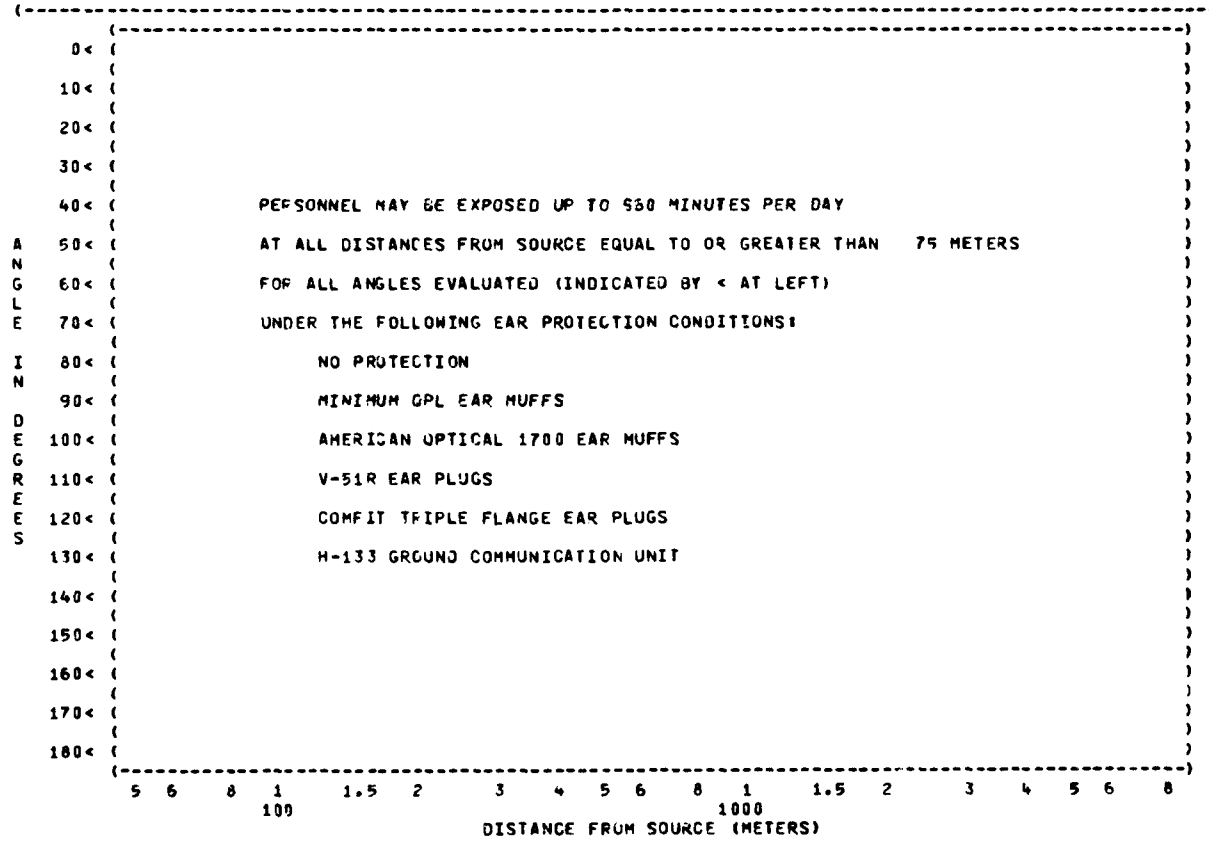
FIGURE: 4.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 04
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



AD-A118 773 AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATT--ETC F/G 20/1
USAF BIOENVIRONMENTAL NOISE DATA HANDBOOK. VOLUME 172. HUSH-HOU--ETC(U)
JUL 82 R A LEE, T H RAU, C JONES
UNCLASSIFIED AMRL-TR-75-50-VOL-172 NL

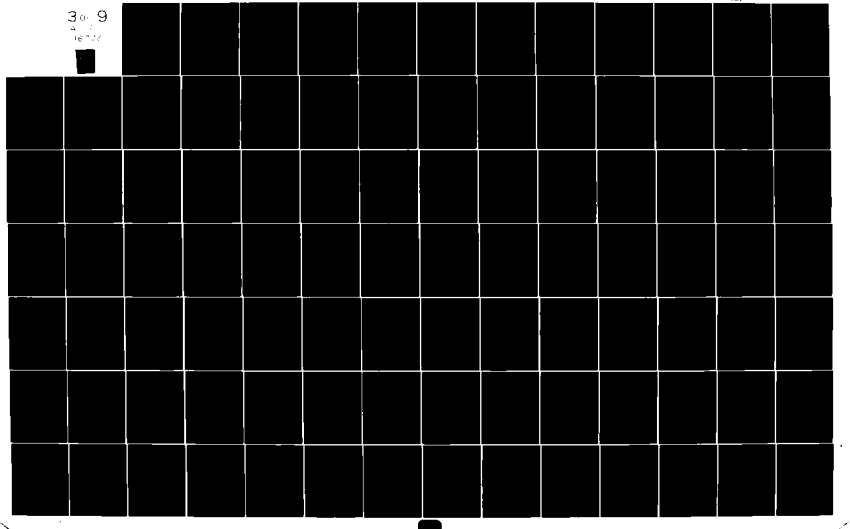


FIGURE: 48 SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

OPERATION:
IDLE POWER (60%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 01
26 OCT 81
PAGE 18

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

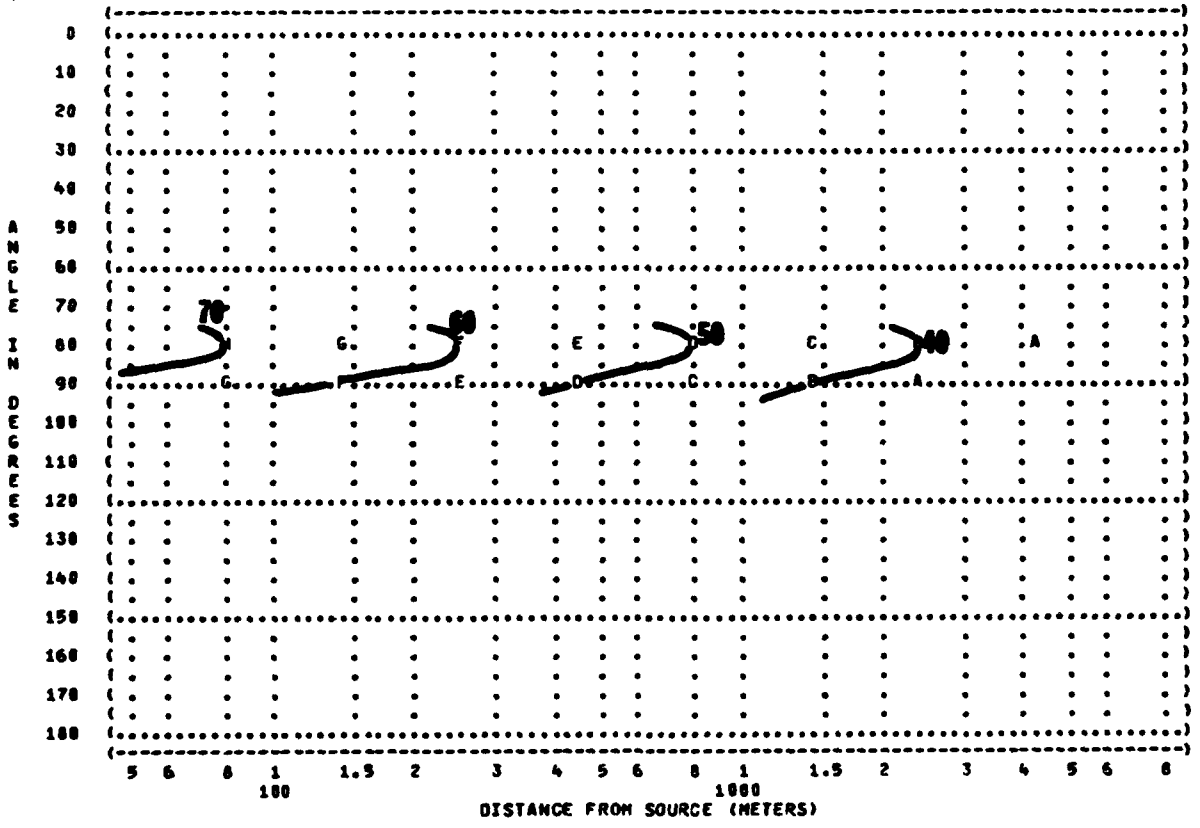


FIGURE: 48 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND		IDENTIFICATION: OMEGA 1.4 TEST BF-705-001 RUN 01 26 OCT 81 PAGE 19
NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE	OPERATION: IDLE POWER (68%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

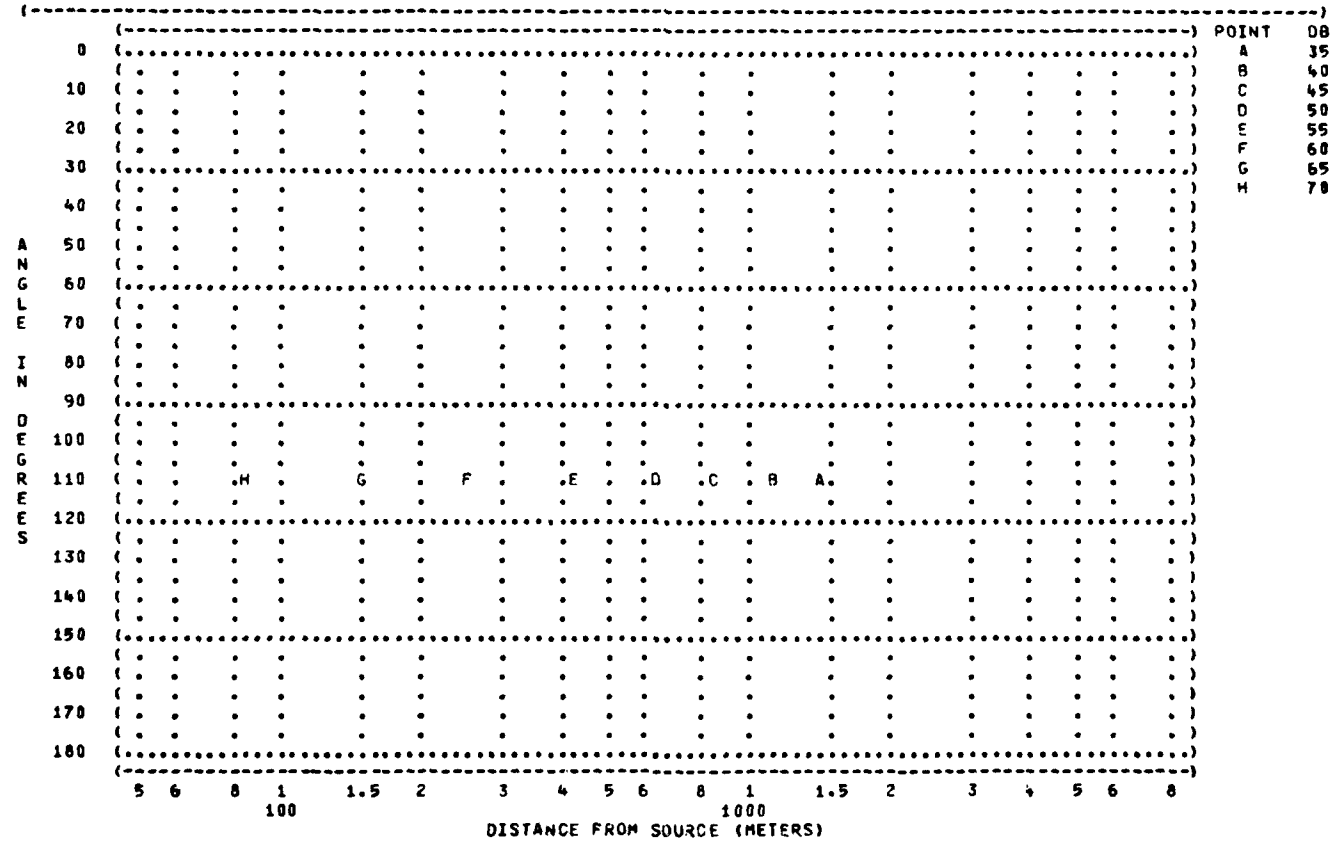
FIGURE 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST 8F-705-001 RUN 01 26 OCT 81 PAGE 20



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE: 48 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND		IDENTIFICATION: OMEGA 1.4 TEST AF-705-001 RUN 01 26 OCT 81 PAGE 21
NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE	OPERATION: IDLE POWER (68%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE: 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .768 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-785-001
RUN 01
26 OCT 81
PAGE 22

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE: 4.8	SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND		IDENTIFICATION:
NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE	OPERATION: IDLE POWER (68%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %	OMEGA 1.4 TEST BF-705-001 RUN 01 26 OCT 81 PAGE 23

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE 4.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-705-001 RUN 01 26 OCT 81 PAGE 24

POINT	DB
A	35
B	40
C	45
D	50

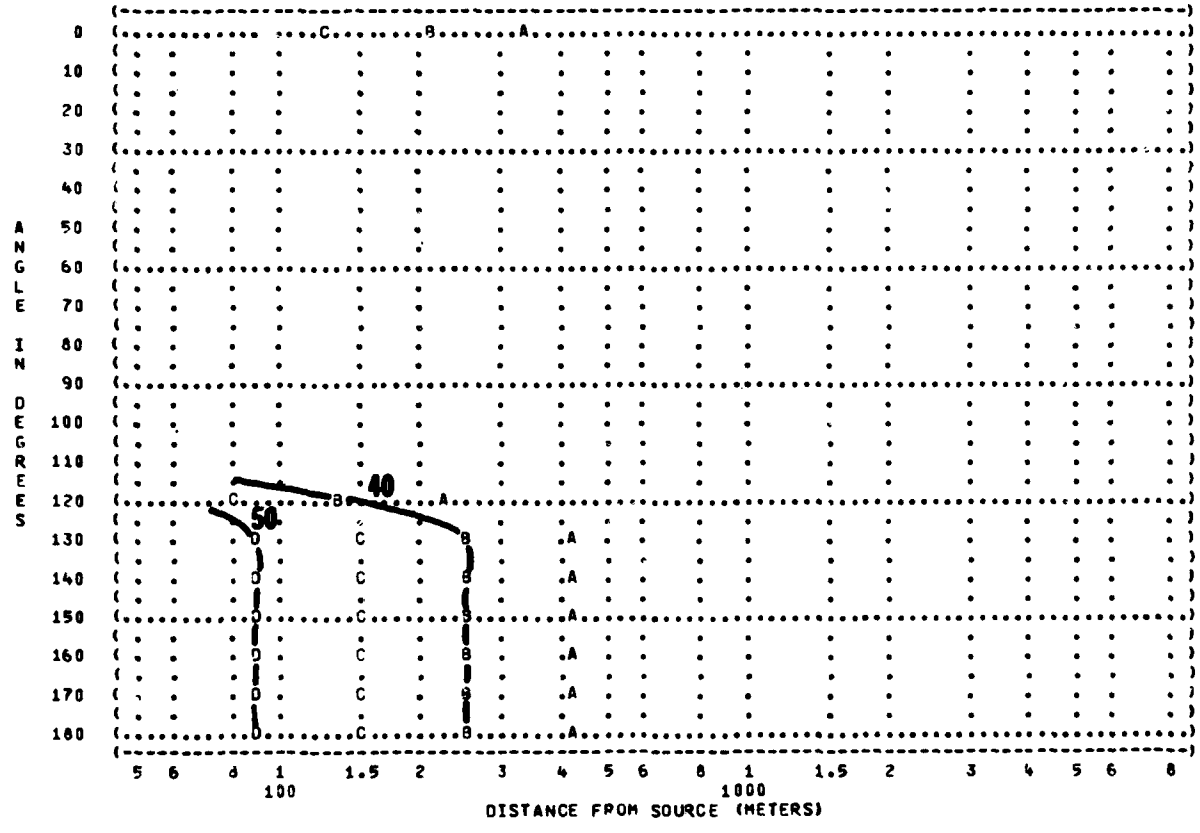


FIGURE 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-705-001 RUN 01 26 OCT 81 PAGE 25

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

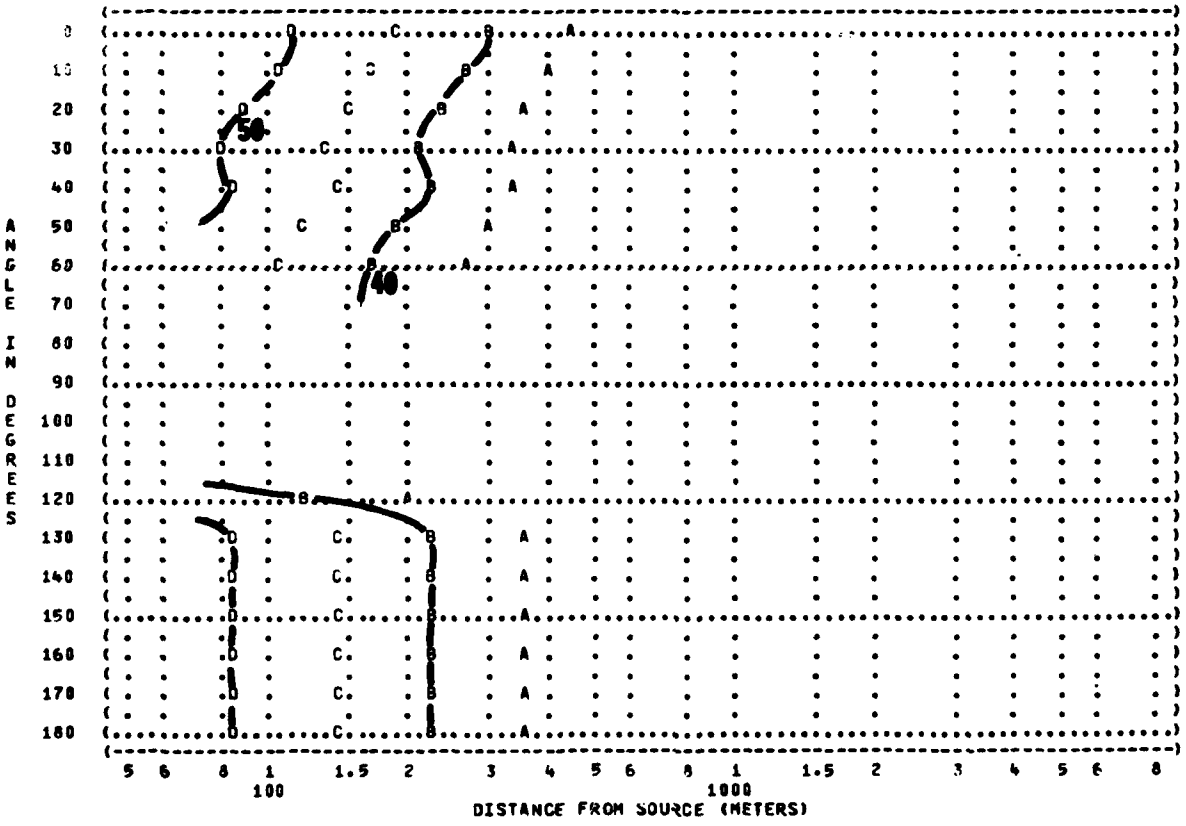


FIGURE 43 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 01
26 OCT 81
PAGE 26

POINT	DB
A	35
B	40
C	45
D	50

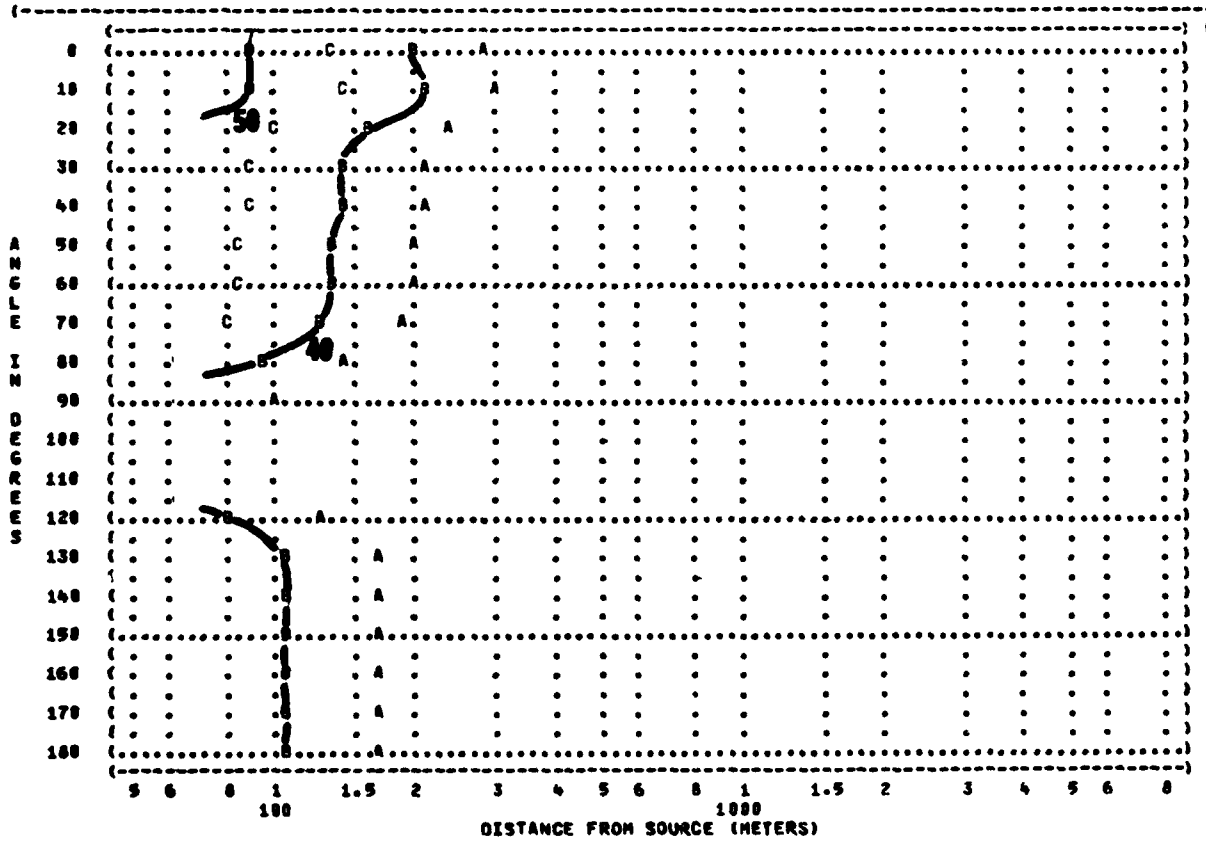


FIGURE: 4.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 9F-705-001
RUN 01
26 OCT 81
PAGE 27

POINT	DB
A	35
B	40
C	45

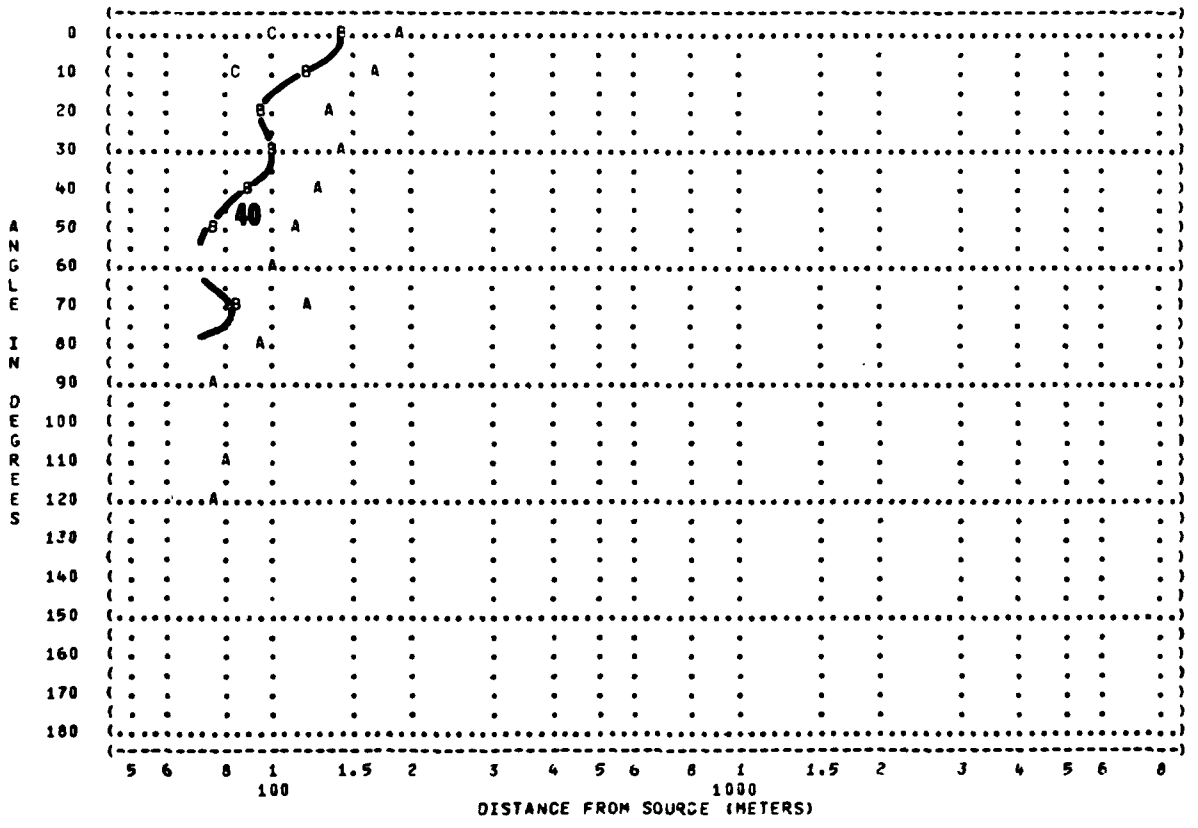


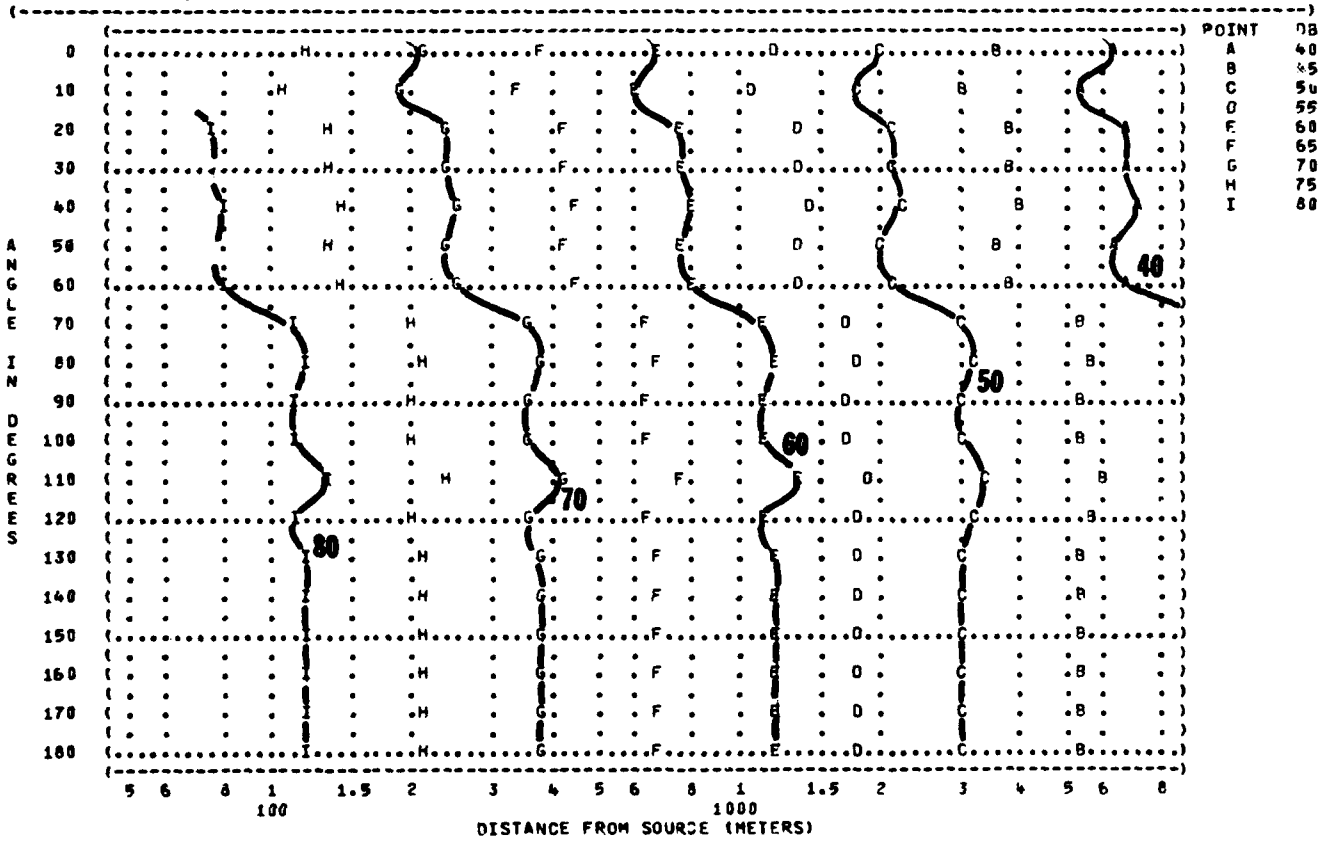
FIGURE 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-705-001 RUN 02 26 OCT 81



POINT	DB
A	40
B	45
C	50
D	55
E	60
F	65
G	70
H	75
I	80

FIGURE 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB)
31.5 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 02
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NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

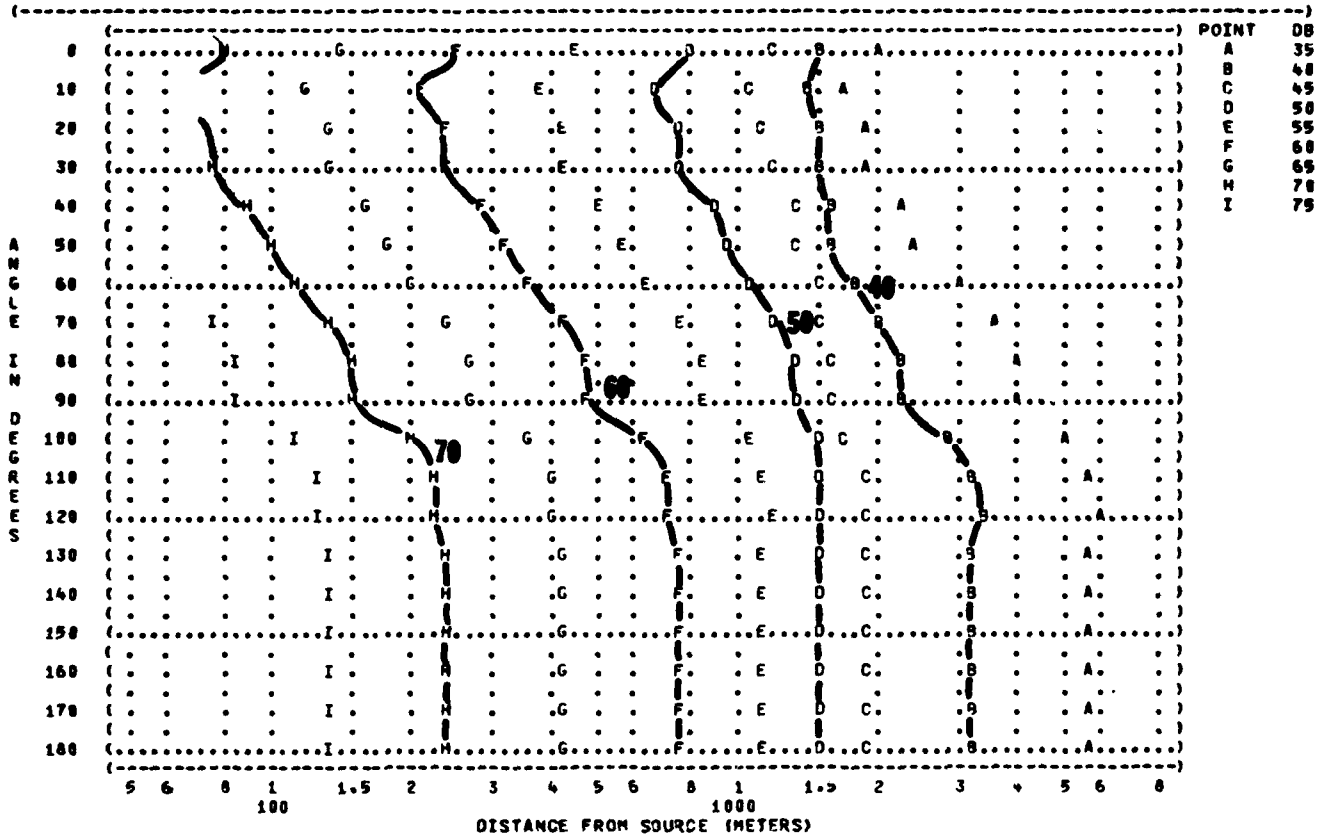

FIGURE: 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND			IDENTIFICATION: OMEGA 1.4 TEST 8F-705-081 RUN 02 26 OCT 81 PAGE 20
NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE	OPERATION: 80% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %	

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE: 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND				IDENTIFICATION: OMEGA 1.4 TEST BF-705-001 RUN 02 26 OCT 81 PAGE 21
NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE	OPERATION: 80% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %		

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE: 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND		IDENTIFICATION: OMEGA 1.4 TEST BF-785-001 RUN 02 26 OCT 81 PAGE 22
NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE	OPERATION: 80% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE: 4.8	SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND		IDENTIFICATION:
NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE	OPERATION: 80% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %	OMEGA 1.4 TEST 8F-705-001 RUN 02 26 OCT 81 PAGE 23

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE: 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 02
26 OCT 81
PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55

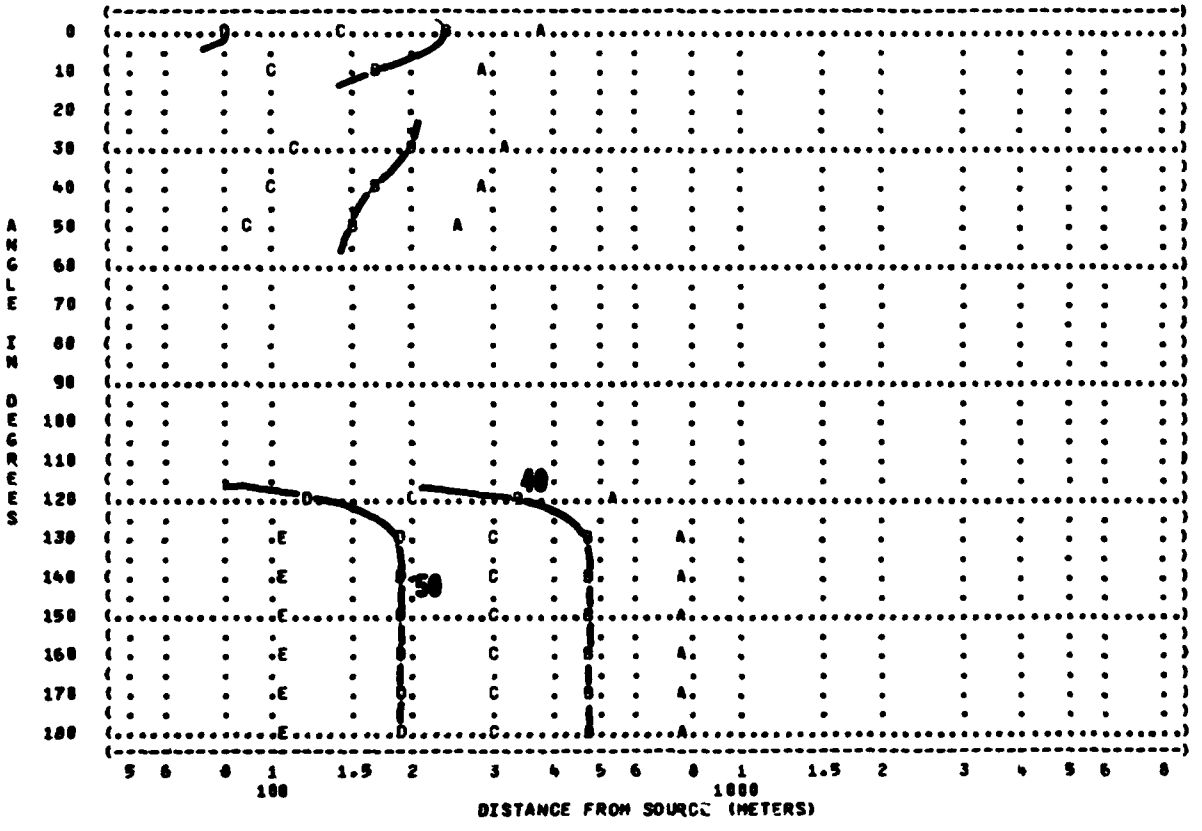

FIGURE 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB)
2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST RF-705-001
RUN 02
26 OCT 81
PAGE 75

POINT	DB
A	35
B	40
C	45
D	50
E	55

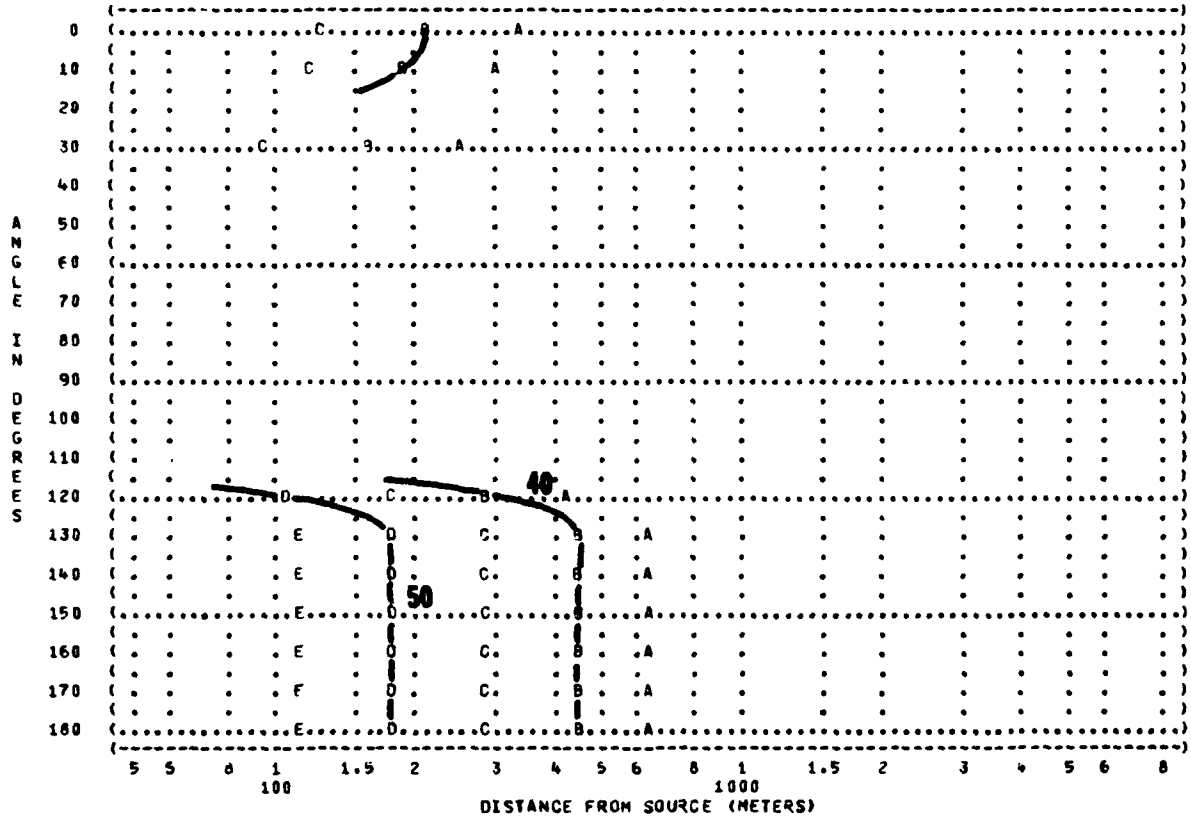

FIGURE: 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 02
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NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45

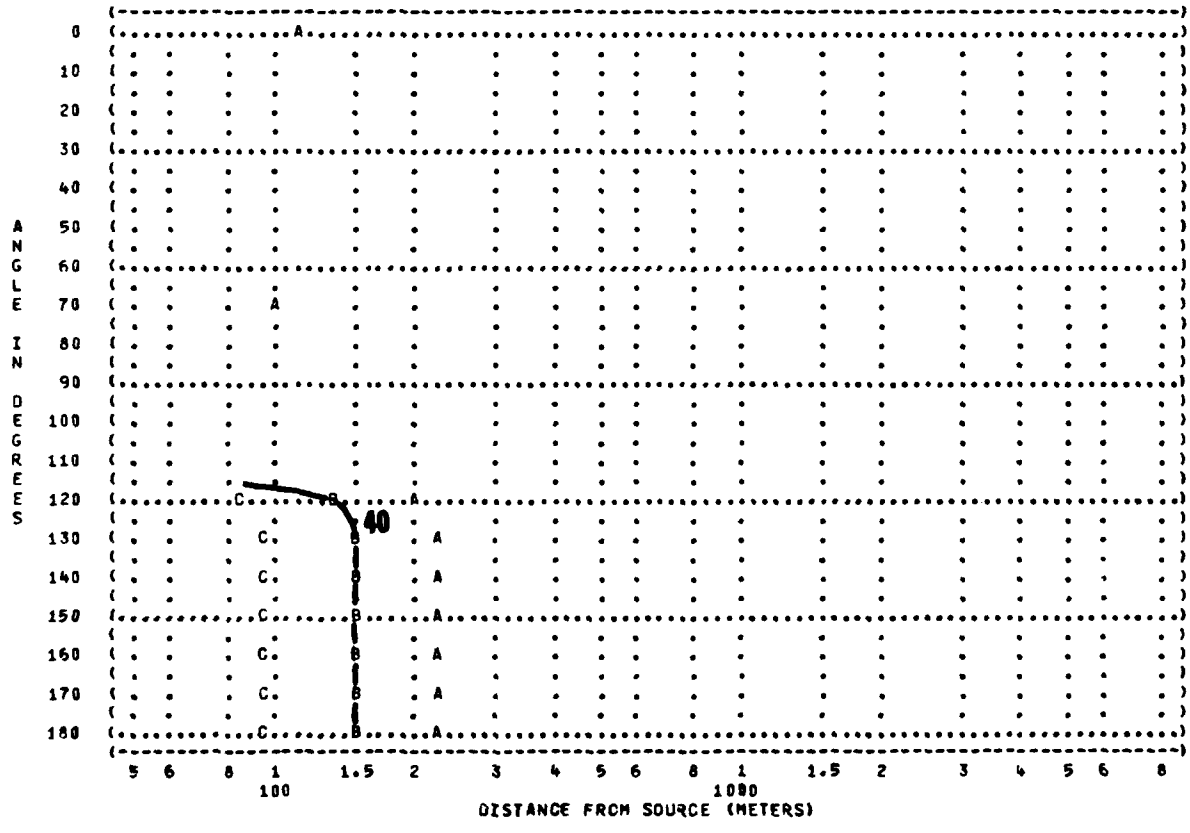


FIGURE 4.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-705-001 RUN 02 26 OCT 81 PAGE 27

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40

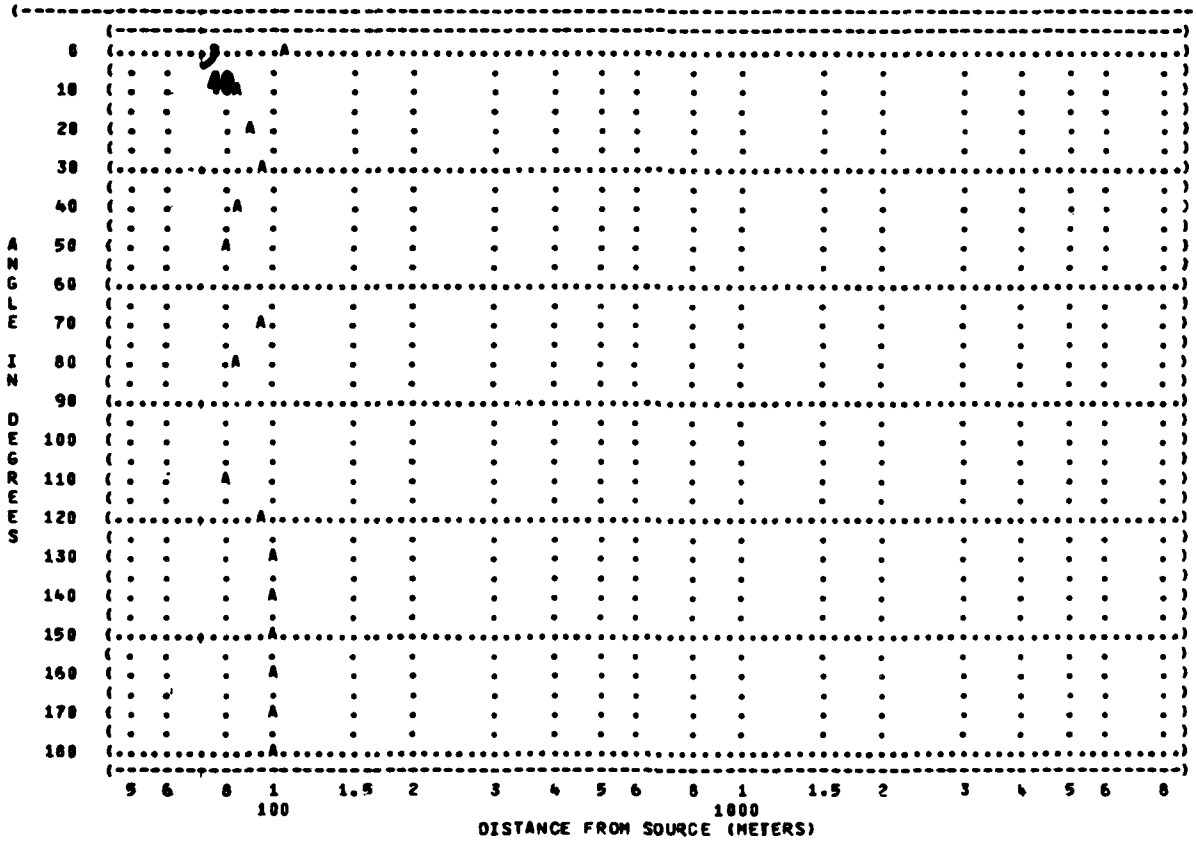


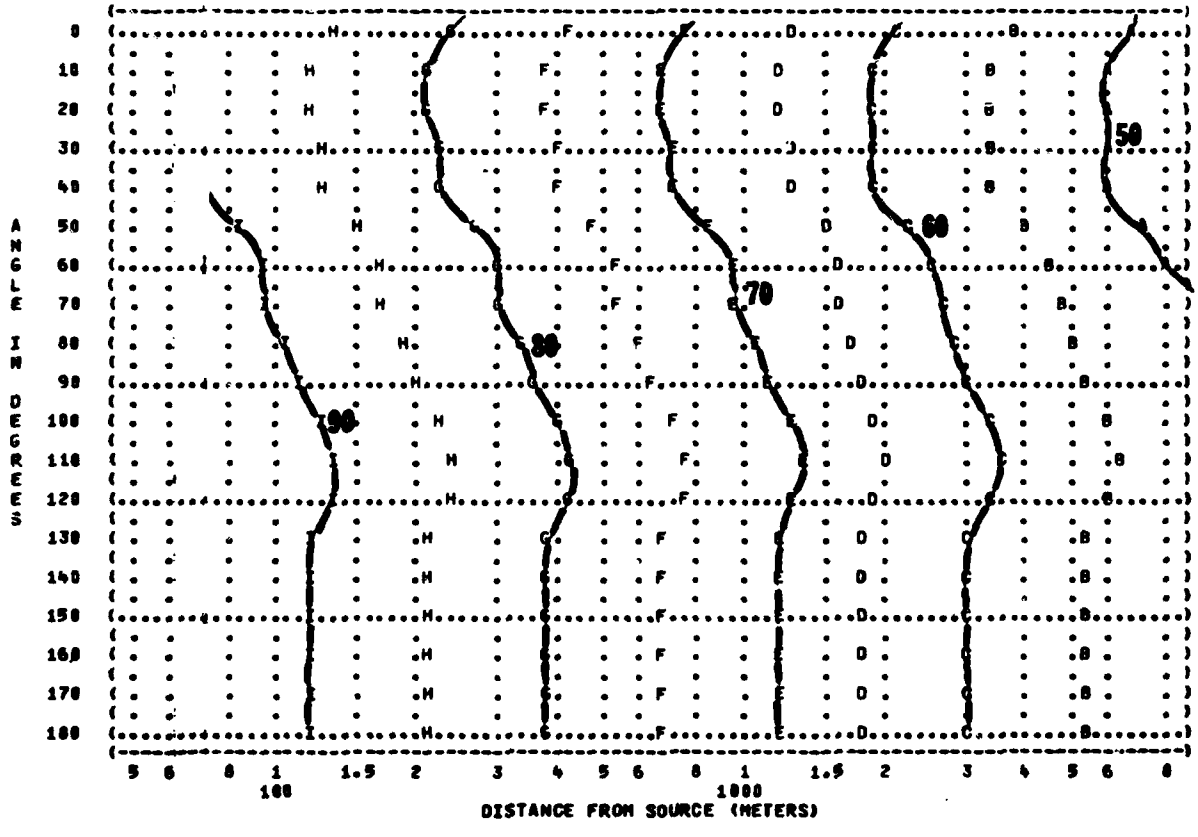
FIGURE 48: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-785-081 RUN 03 26 OCT 81 PAGE 18



POINT	DB
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90

FIGURE 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-705-001 RUN 03 26 OCT 81 PAGE 19

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90

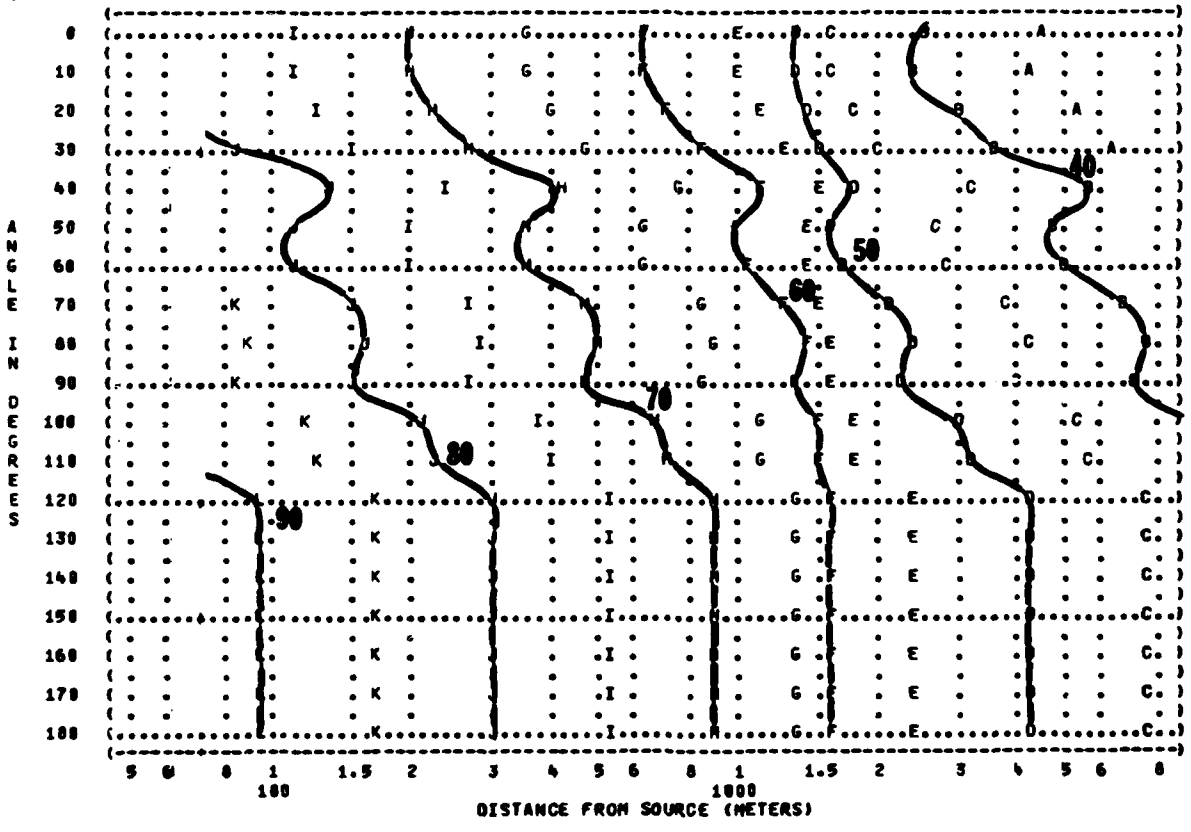


FIGURE: 4.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
63 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-881
RUN 03
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NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

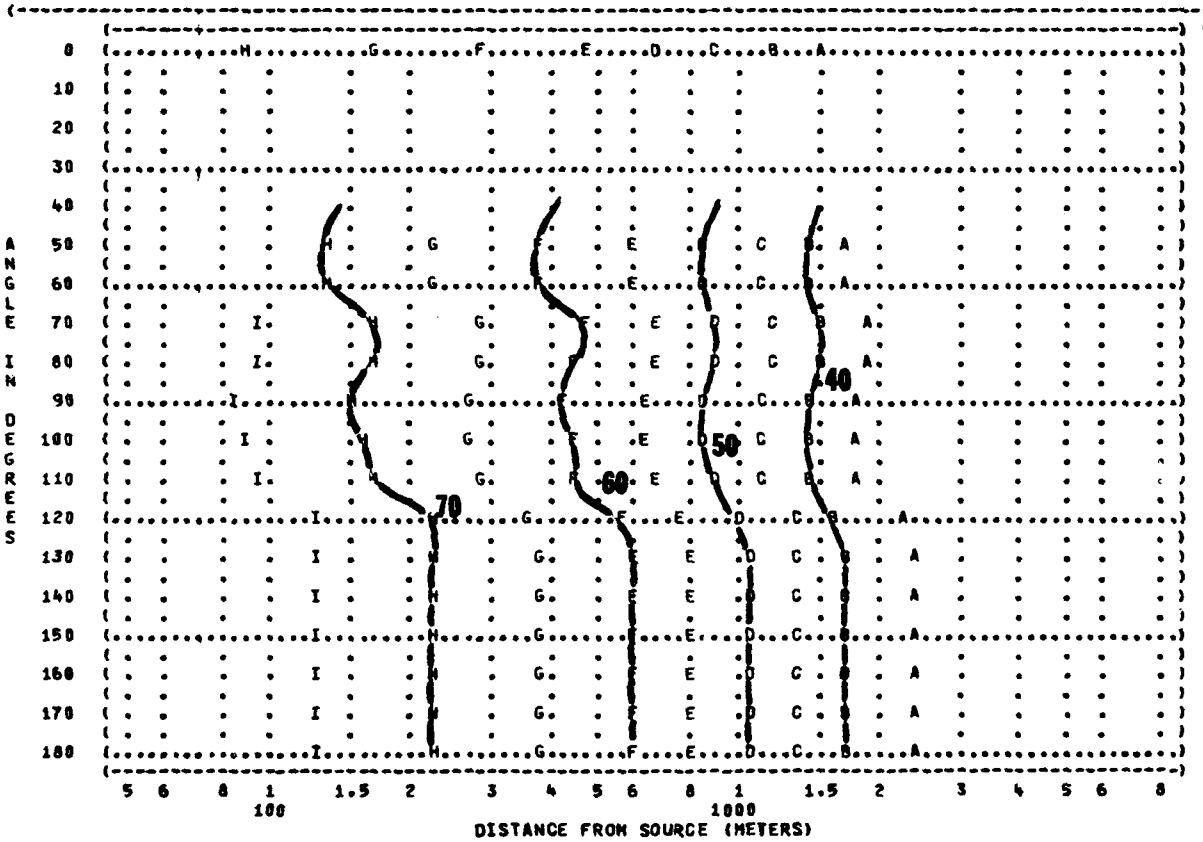

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FIGURE: 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-705-081 RUN 03 26 OCT 81 PAGE 21

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

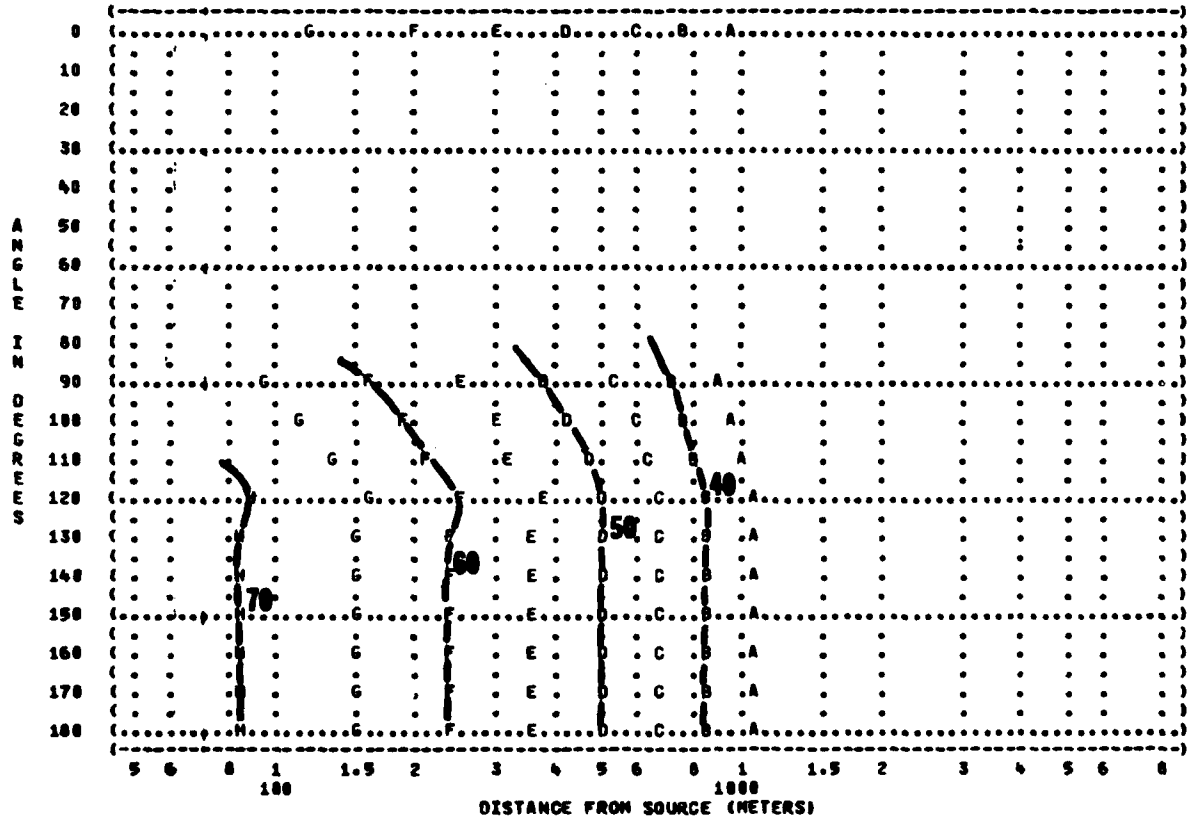

FIGURE 4.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (D3) 250 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-705-081 RUN 03 26 OCT 81 PAGE 22

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

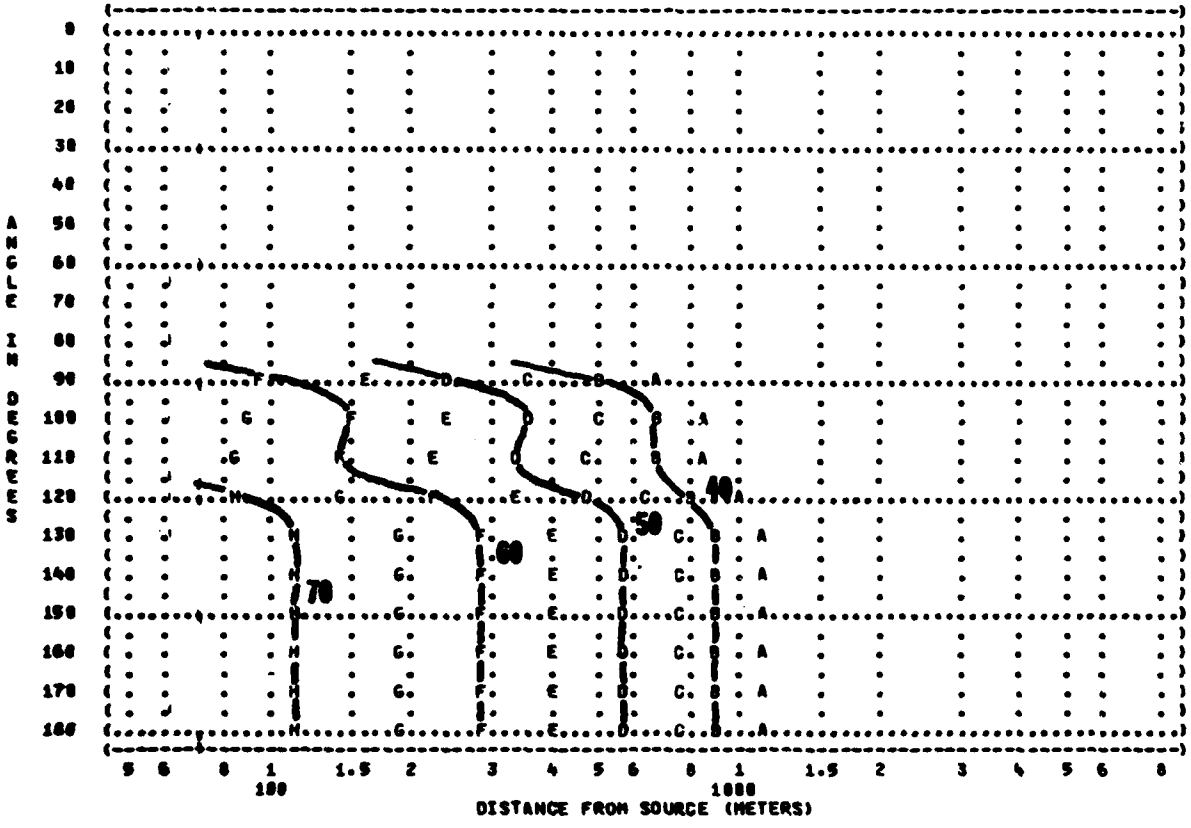

FIGURE: 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 03
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PAGE 23

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

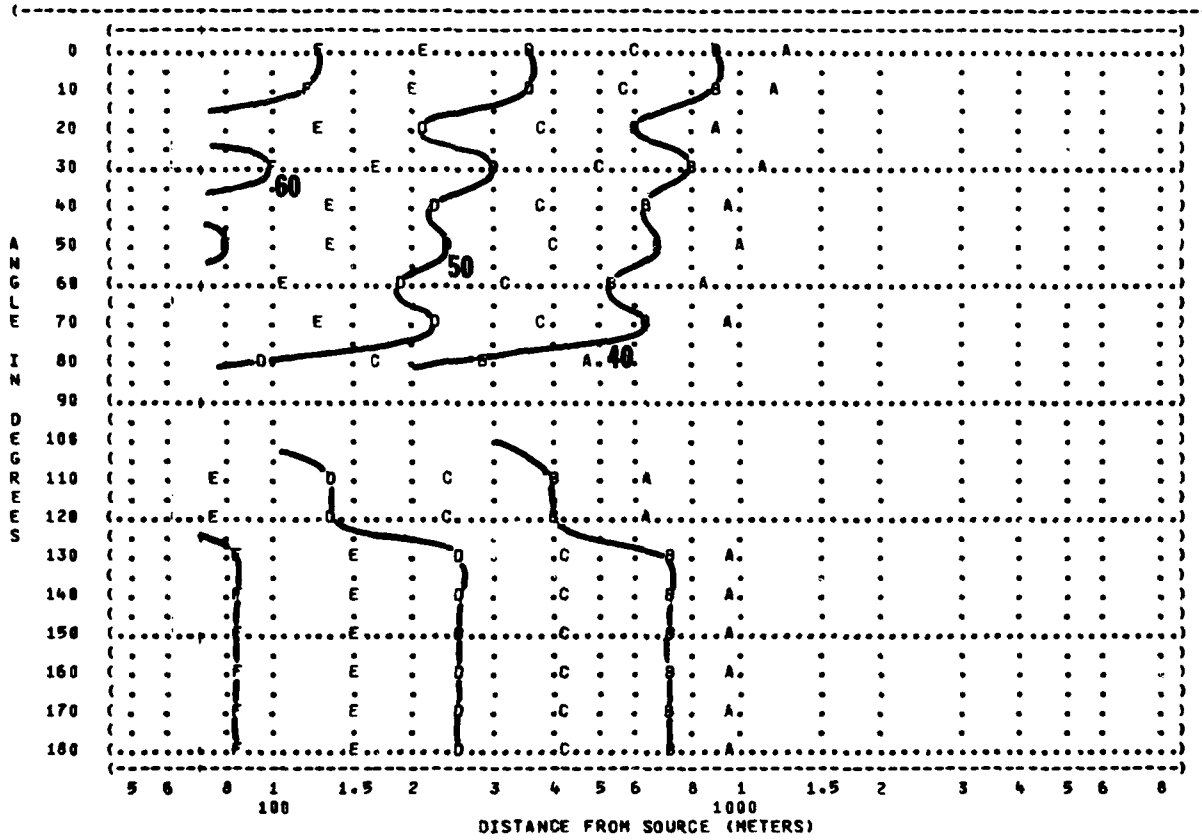

FIGURE: 4.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-705-081
RUN 03
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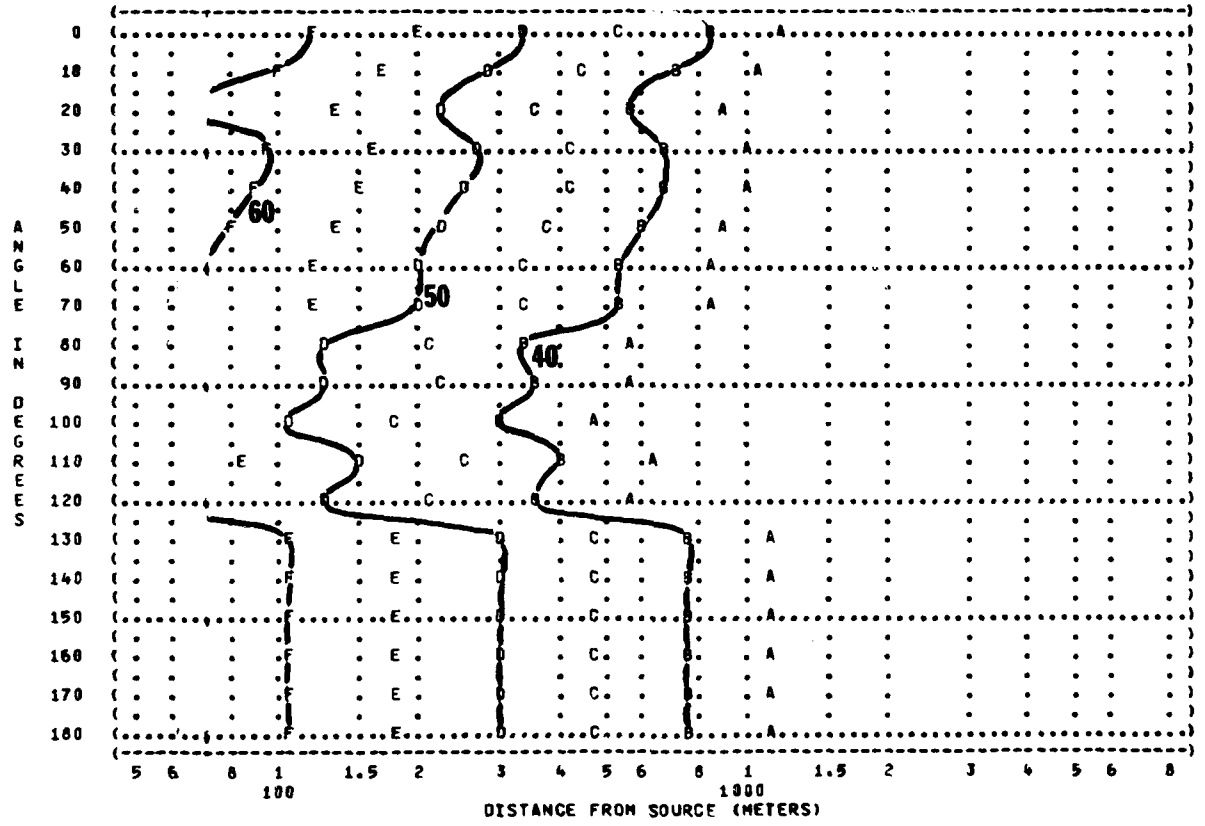

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

FIGURE 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST 8F-705-881 RUN 03 26 OCT 81 PAGE 25

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

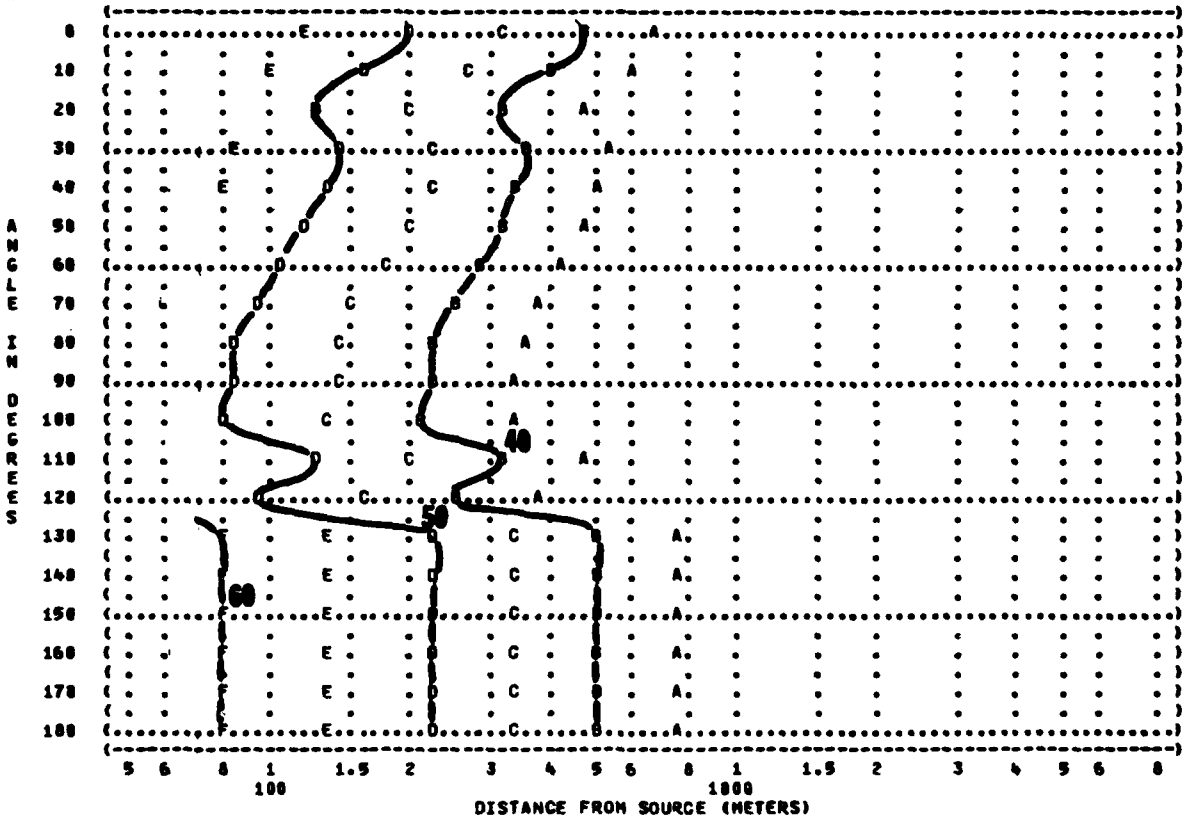

FIGURE: 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 03
26 OCT 81
PAGE 26

POINT	DB
A	35
B	40
C	45
D	50

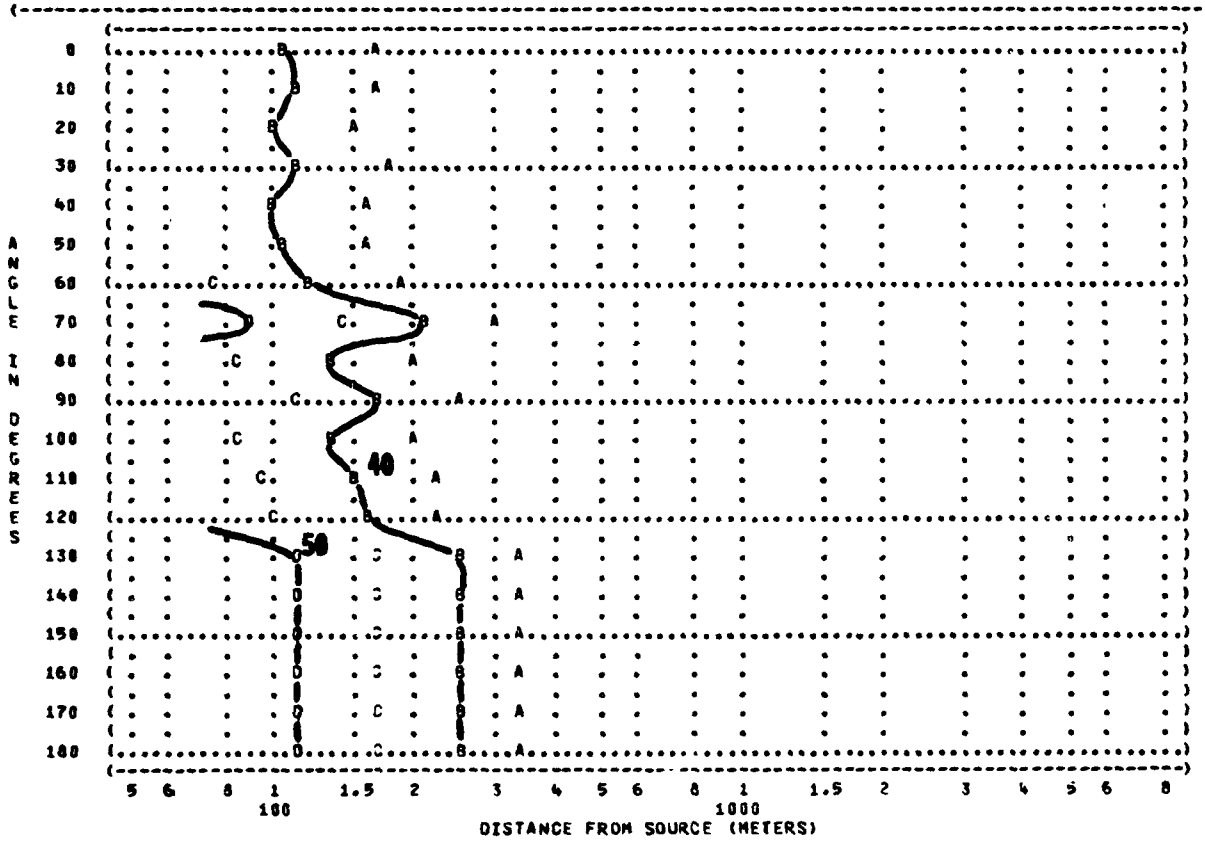

FIGURE 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-705-001 RUN 03 26 OCT 81 PAGE 27

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

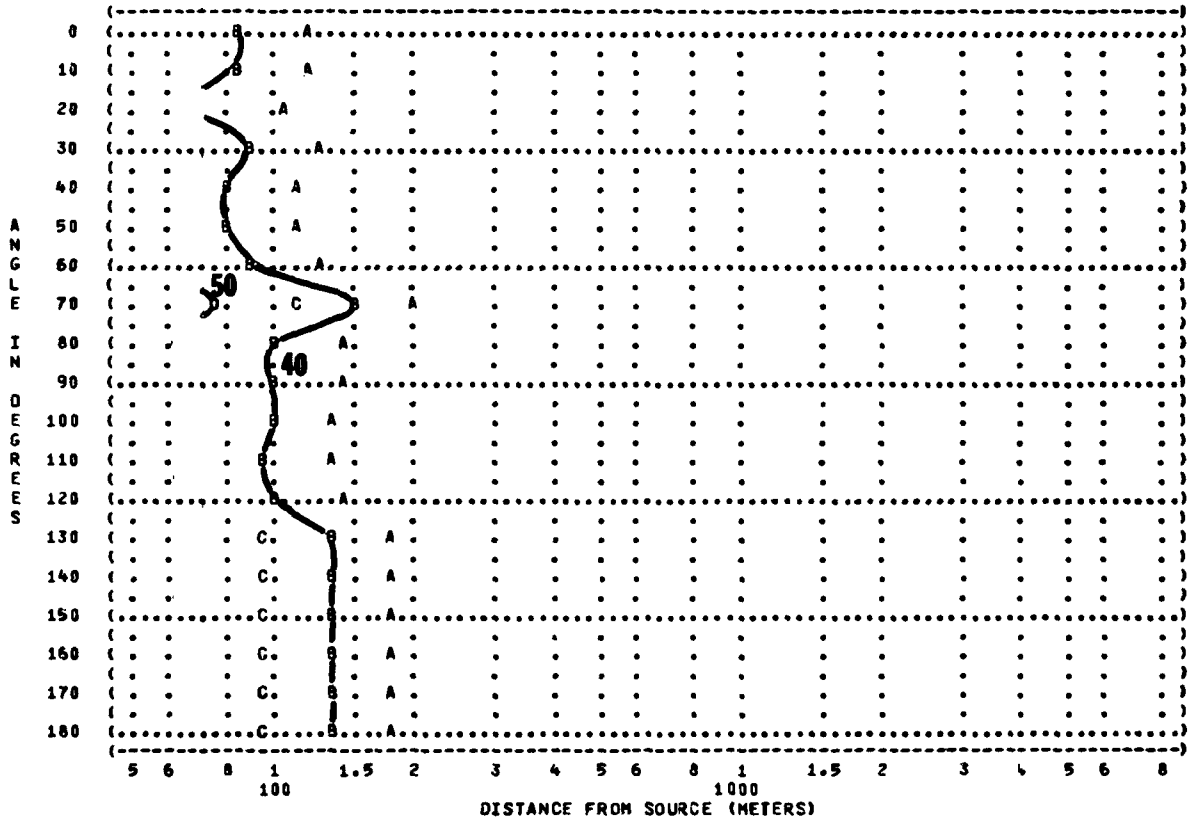

FIGURE: 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB)
16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST AF-705-001
RUN 04
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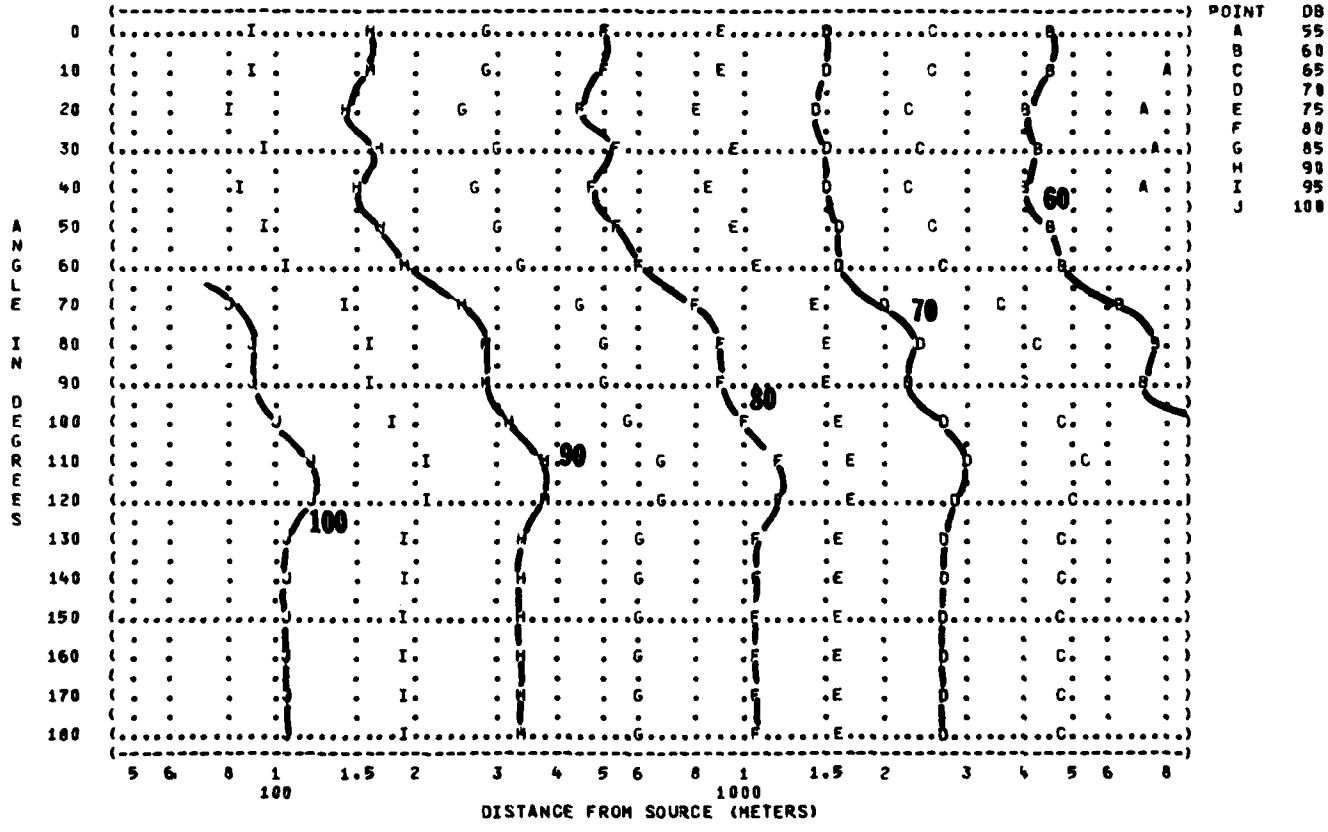
PAGE 18



POINT	DB
A	55
B	60
C	65
D	70
E	75
F	80
G	85
H	90
I	95
J	100

FIGURE 4.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C; BAR PRESS = .760 M HG; REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4; TEST BF-705-081; RUN 04; 26 OCT 81; PAGE 19

POINT	DB
A	40
B	45
C	50
D	55
E	60
F	65
G	70
H	75
I	80
J	85
K	90
L	95
M	100

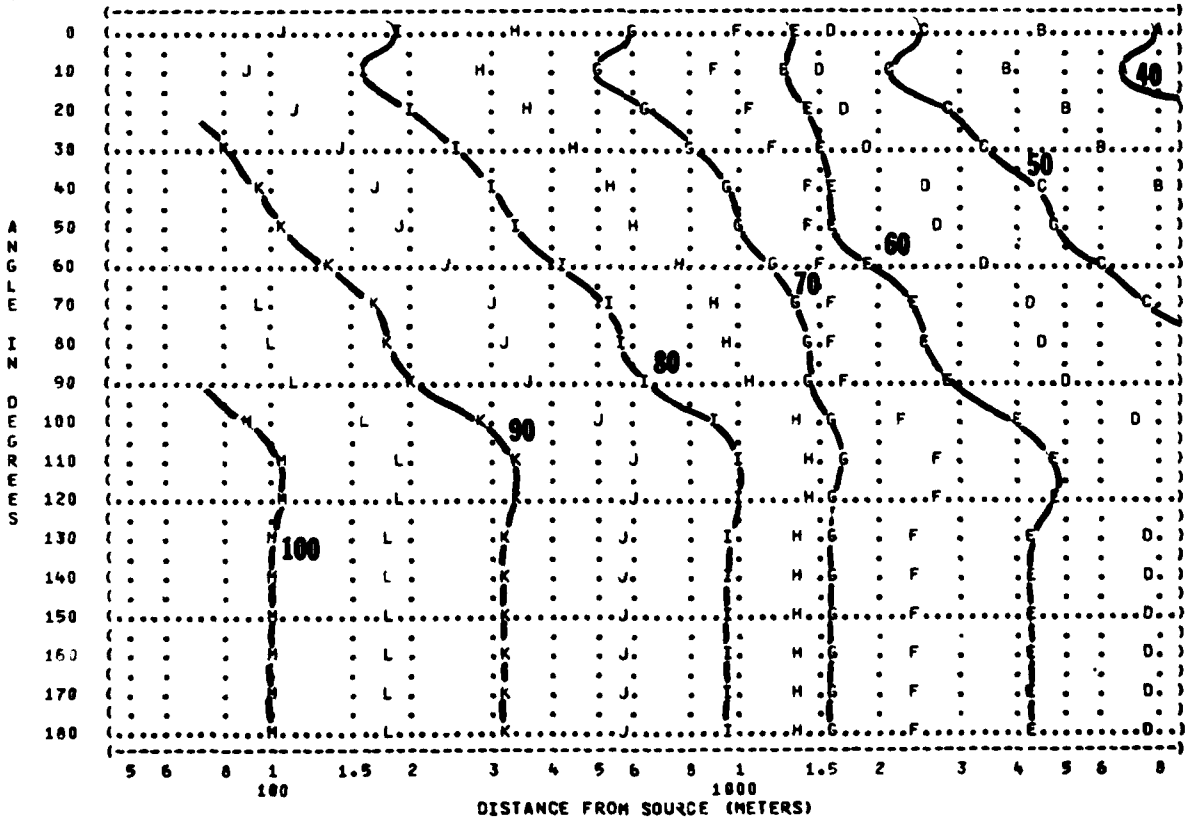


FIGURE 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-705-881
RUN 04
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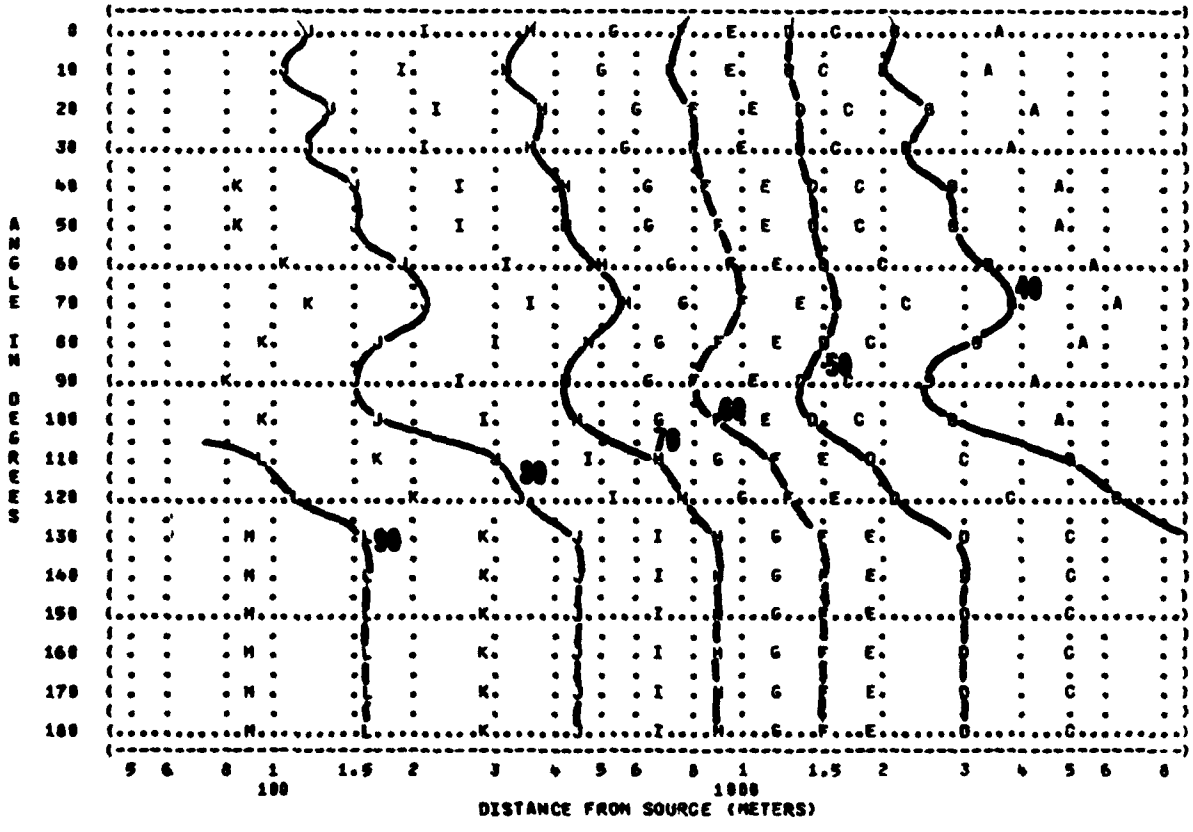
PAGE 28



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95

FIGURE 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-705-001 RUN 04 26 OCT 81 PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

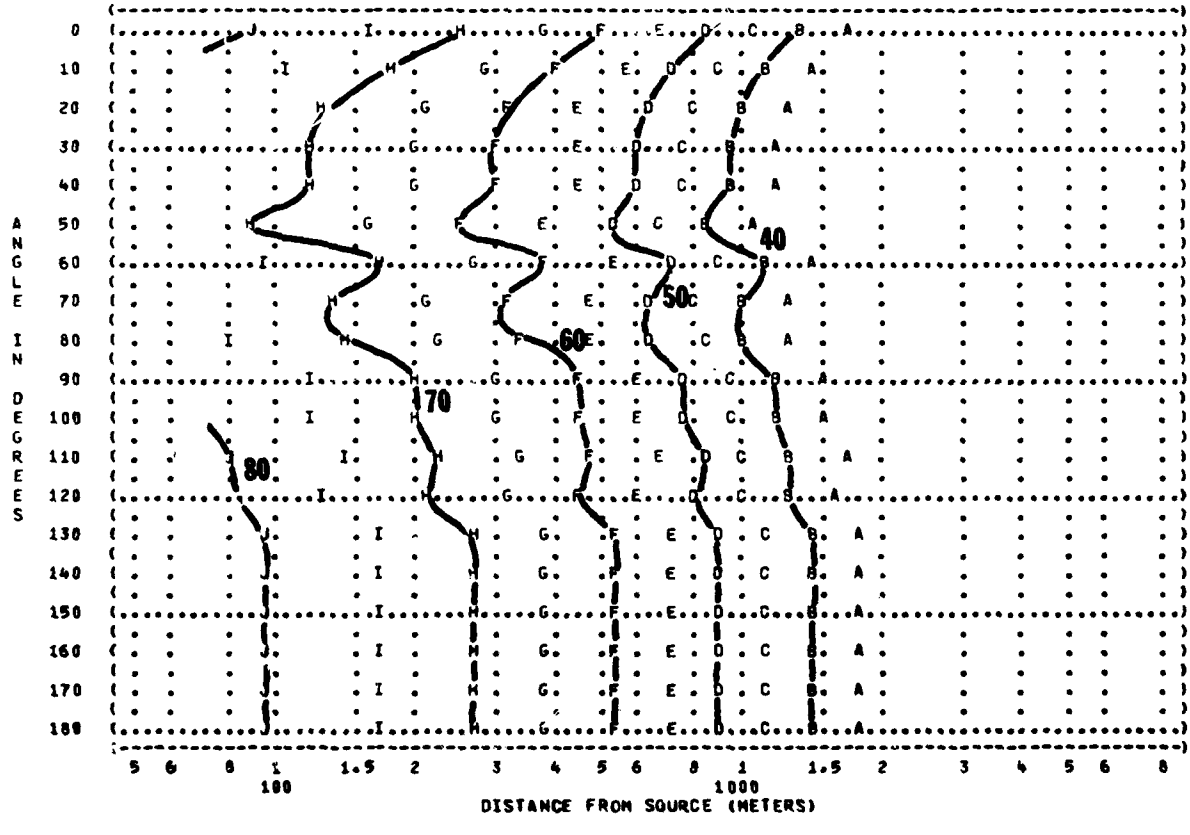


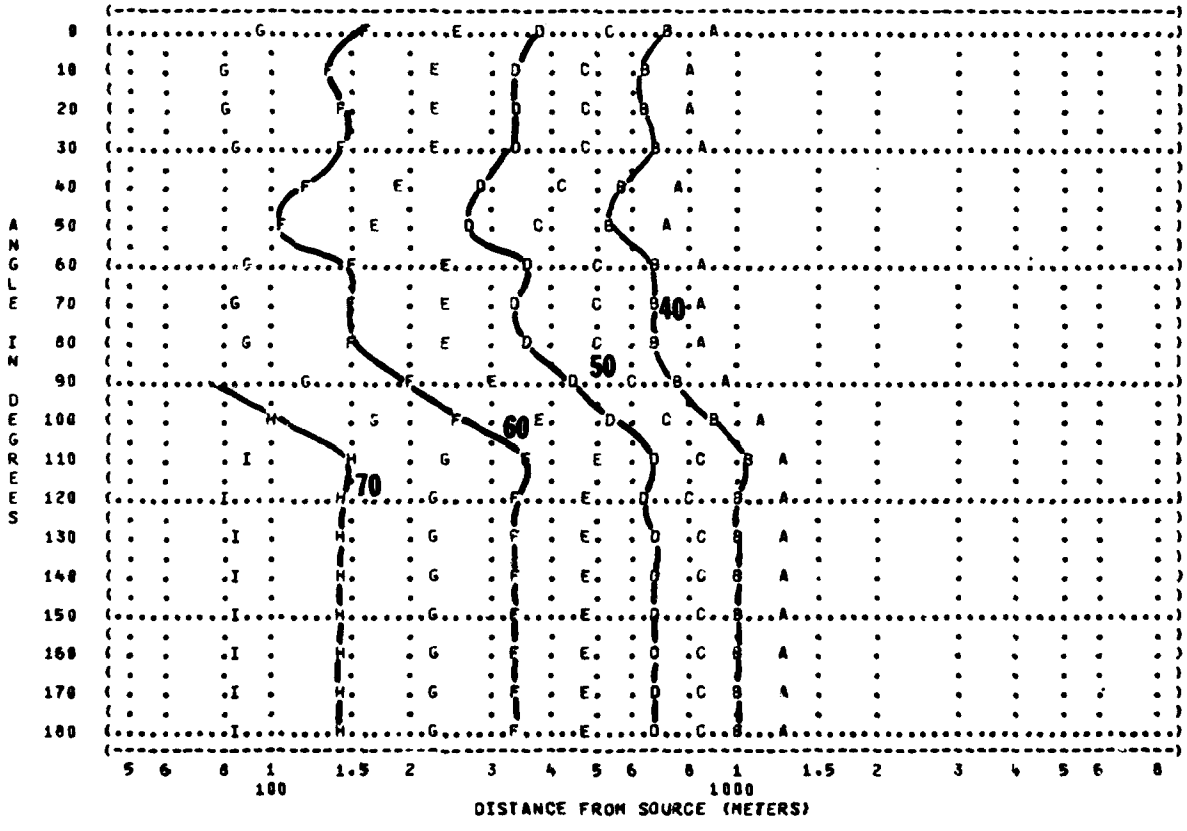
FIGURE 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THF
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 04
26 OCT 81
PAGE 22



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

FIGURE 48 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-705-001 RUN 04 26 OCT 81 PAGE 23

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

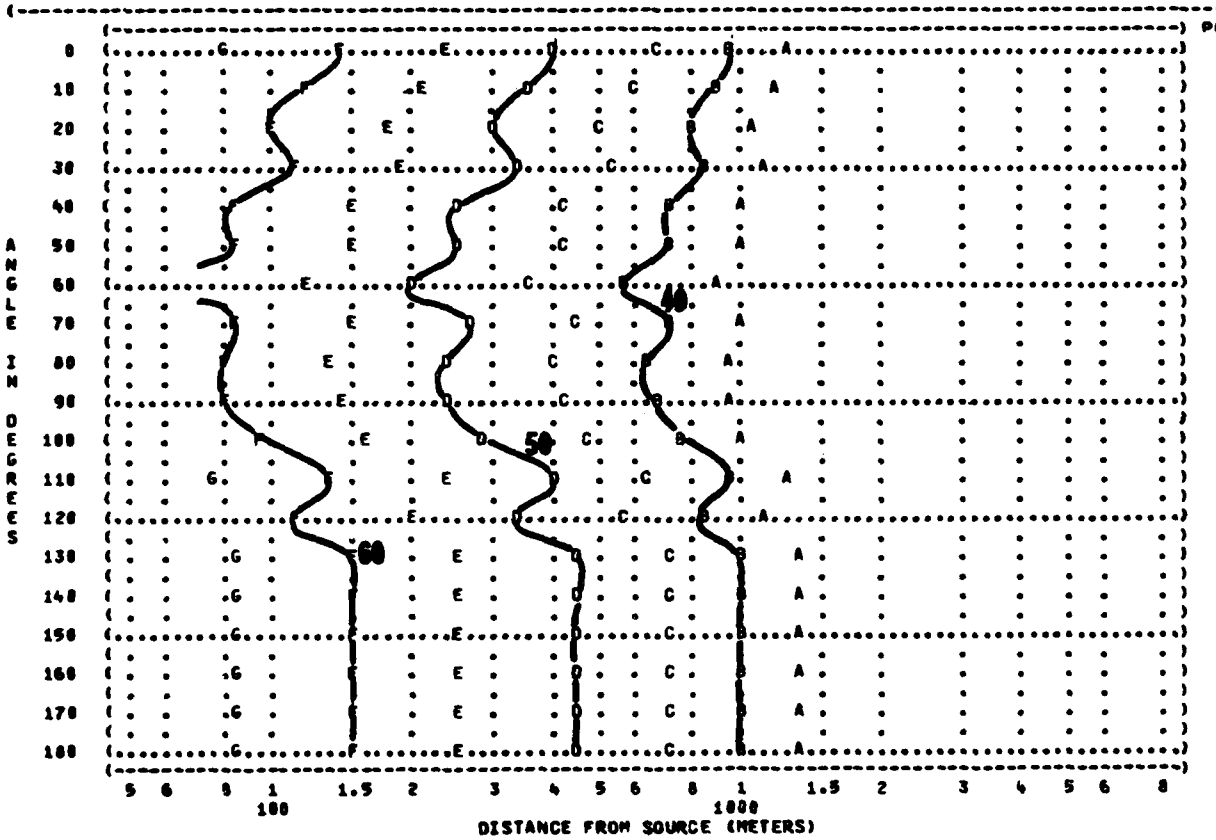


FIGURE 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-705-081 RUN 04 26 OCT 81 PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

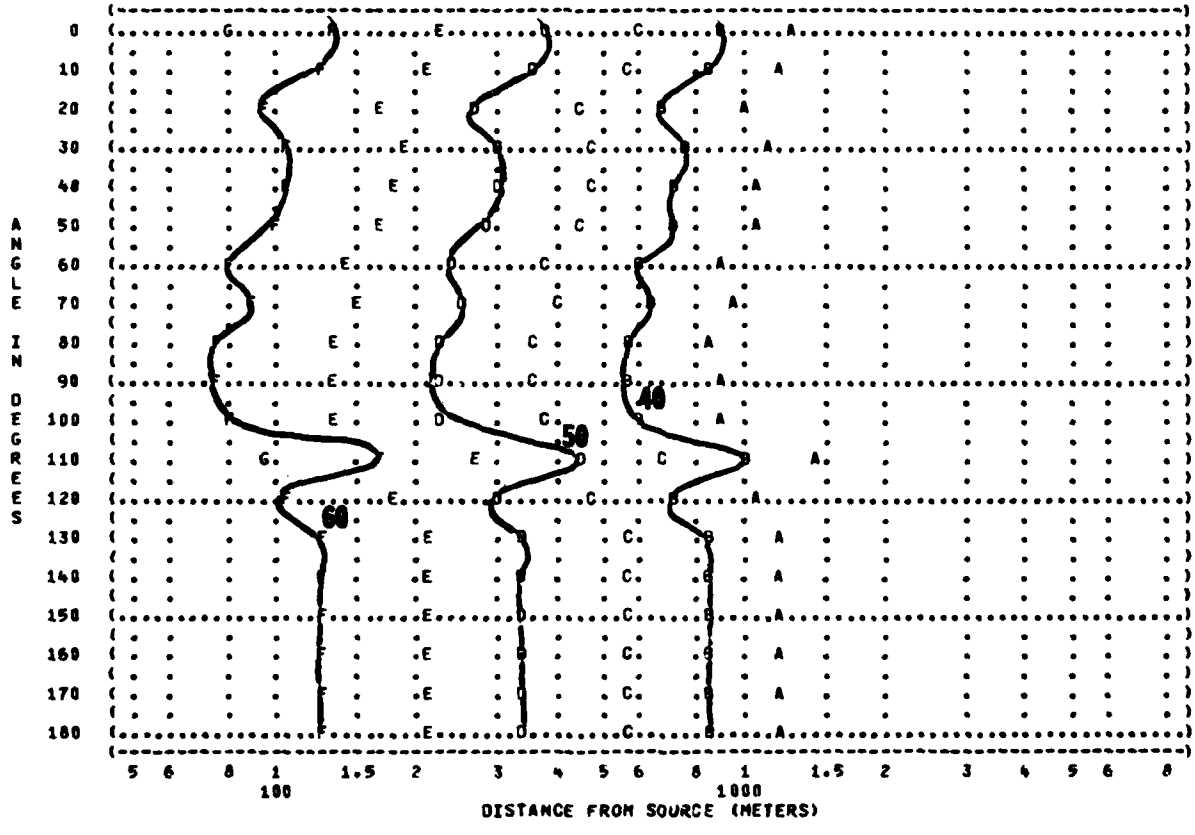


FIGURE 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 04
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

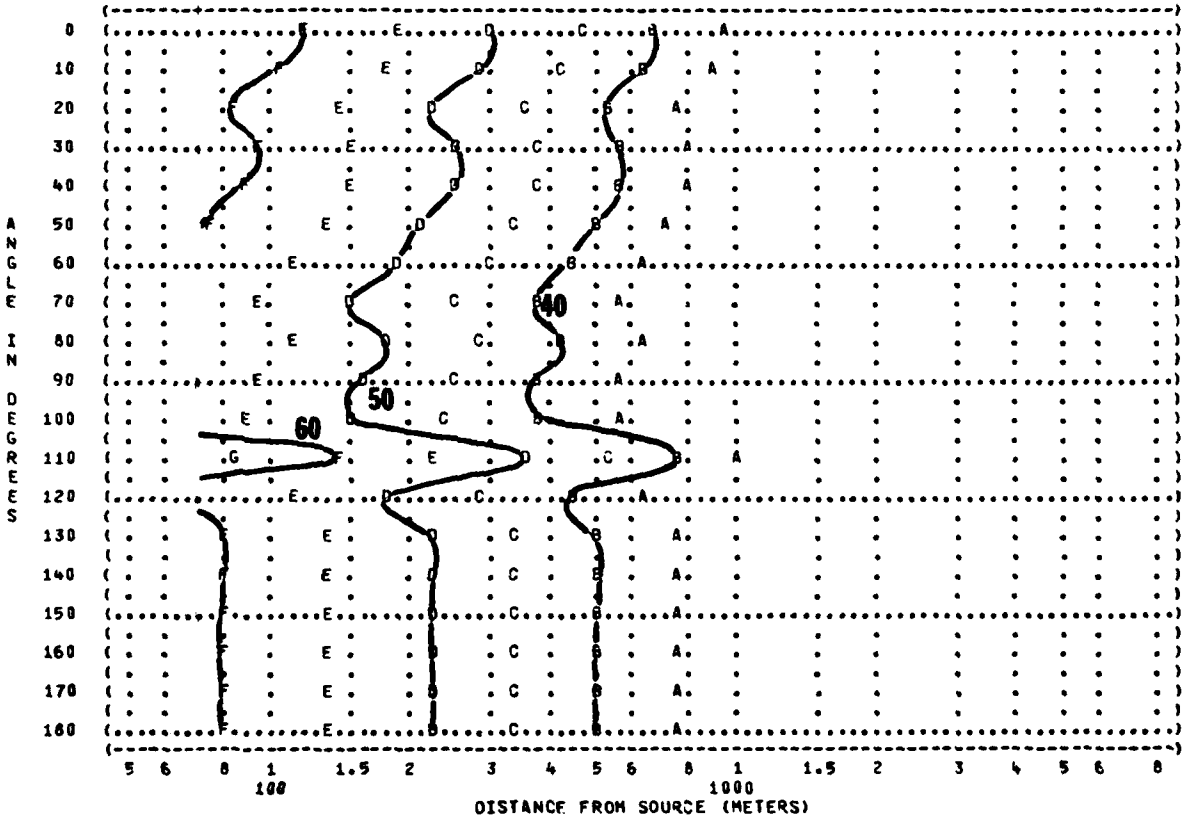


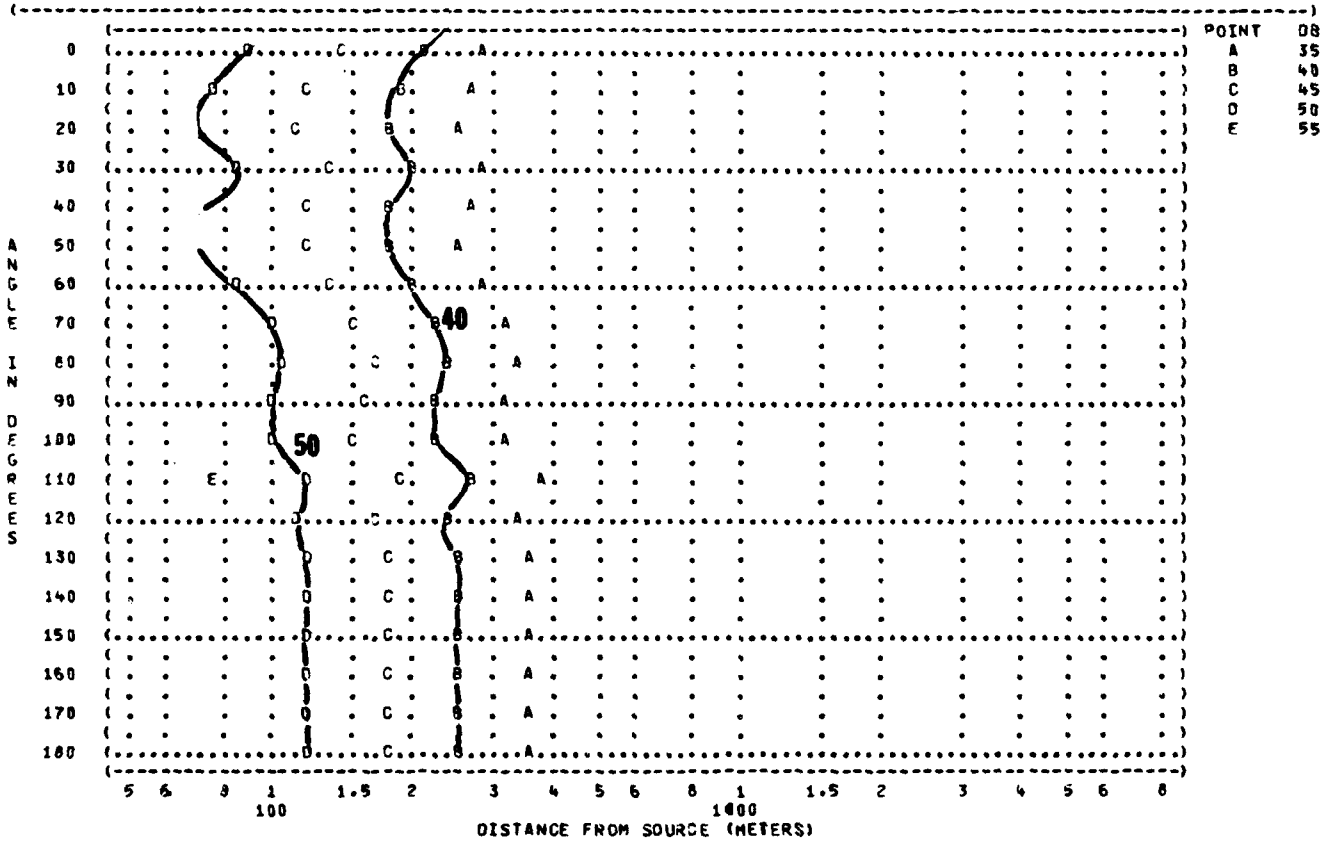
FIGURE: 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-705-001
RUN 04
26 OCT 81
PAGE 26

NOISE SOURCE/SUBJECT:
F-16 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
F100-PW-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DB
A	35
B	40
C	45
D	50
E	55

FIGURE 4.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE F100-PW-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-705-001 RUN 04 26 OCT 81 PAGE 27

POINT	DB
A	35
B	40
C	45
D	50

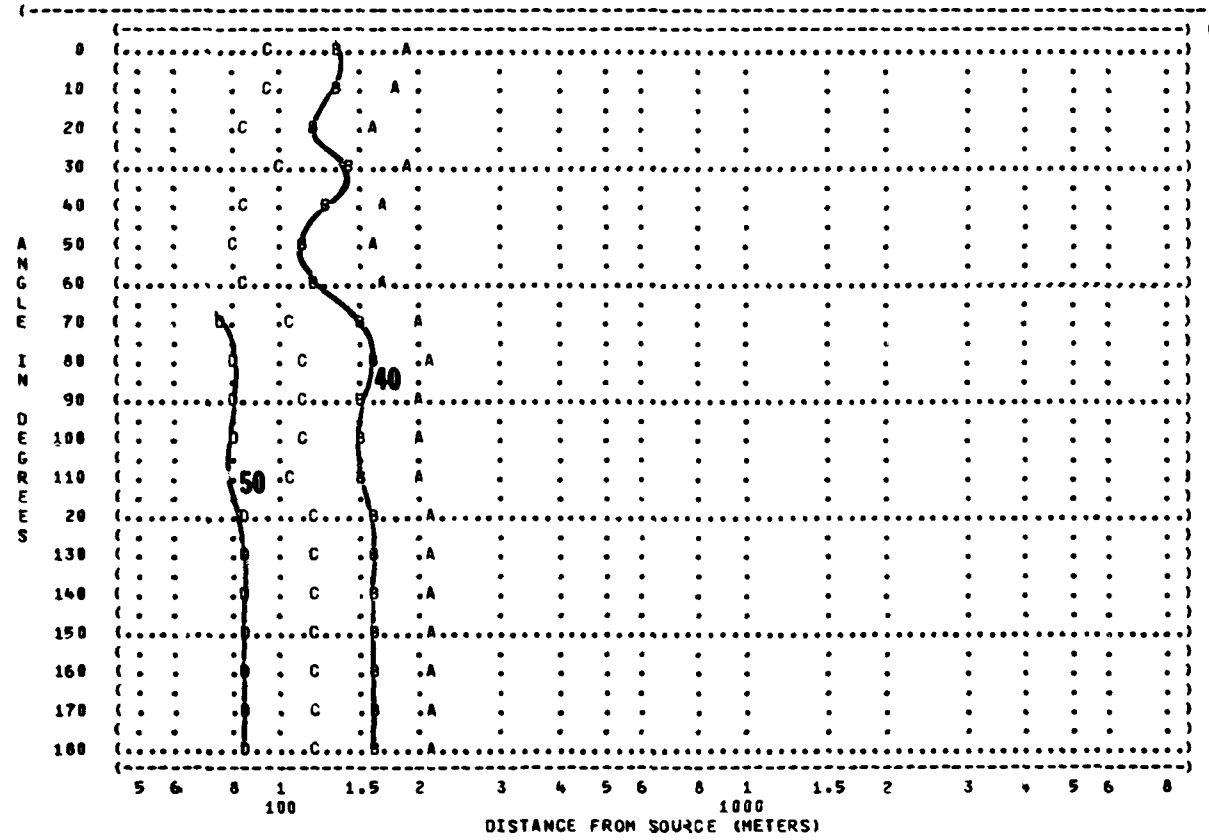


TABLE 5.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS F-105 AIRCRAFT IN THE ASE-TEXAS INC. HUSH-HOUSE, GROUND RUNUP KELLY AFB TEXAS, TEST #BF-706-001

Aircraft Engine Operation	Single Engine	
90%	90	% RPM
	5000	LBS/HR FF
	430	EGT
Military Power	103	% RPM
	1100	LBS/HR FF
	614	EGT
	2.35	EPR
Afterburner Power	103	% RPM
	1100+	LBS/HR FF
	623	EGT
	2.43	EPR
Meteorology		
Temperature	28	C
Bar Pressure	.748	M HG
Rel Humidity	69	%
Wind - Speed	2	M/Sec (4 Kts)
- Direction	190	Deg

TABLE: 5.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST 8F-706-001
RUN 01

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 28 C
BAR PRESS = .748 M HG
REL HUMID = 69 %

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PAGE 2

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	78	78	76	73	74	74	75	77	77	79	79	78	78	79	77	79	76	78	67
16	75	77	74	74	76	74	74	78	81	80	80	80	78	79	78	83	80	79	67
20	70	70	70	72	74	74	74	78	78	78	80	76	78	78	80	80	82	79	68
25	61	65	67	64	67	70	72	72	71	73	75	77	78	78	78	78	80	79	69
31.5	61	62	58	61	64	65	62	65	65	68	72	72	74	74	75	75	78	77	69
40	61	64	60	62	64	65	65	68	64	65	68	67	69	69	72	73	78	72	68
50	61	61	60	59	61	63	63	65	63	67	63	63	65	65	69	71	72	69	70
63	59	58	58	59	59	61	62	63	60	60	62	62	64	64	61	61	66	64	69
80	61	57	57	58	60	59	57	60	60	57	60	63	61	61	57	58	60	56	59
100	64	66	60	59	58	58	59	58	59	62	65	63	61	61	62	61	62	61	63
125	62	59	56	55	58	60	59	58	56	57	57	57	59	59	57	59	57	56	65
160	63	58	55	51	56	60	58	54	53	54	53	56	56	56	55	58	54	56	56
200	60	59	58	51	52	58	56	51	49	53	56	55	57	52	54	54	50	57	60
250	57	57	59	53	54	60	54	52	47	49	50	54	51	51	53	55	49	51	52
315	54	52	51	46	47	54	50	46	42	44	54	49	46	45	43	48	46	46	49
400	52	51	48	45	43	50	43	41	39	42	43	47	48	47	45	46	45	45	48
500	49	46	45	43	44	49	42	40	37	39	37	40	44	44	43	43	44	44	45
630	48	44	43	42	45	48	40	41	40	40	38	45	42	42	41	44	44	45	47
800	47	44	41	40	44	46	41	40	39	40	39	46	42	42	42	43	44	46	44
1000	46	43	41	41	41	43	38	37	35	38	39	43	43	43	46	43	40	44	46
1250	44	42	40	41	41	41	38	36	35	37	37	43	41	41	47	43	49	45	43
1600	43	44	40	42	41	41	39	36	36	36	37	44	41	41	45	42	45	42	43
2000	51	50	51	50	48	46	45	41	40	41	40	44	41	41	42	41	43	42	42
2500	47	47	46	47	45	45	42	39	38	38	37	41	40	40	44	38	36	41	40
3150	52	51	49	47	47	50	47	42	40	39	38	42	42	42	41	36	39	41	40
4000	49	45	42	40	40	42	39	37	37	36	35	37	36	36	38	36	38	40	38
5000	49	42	39	38	39	39	37	36	35	36	31	35	33	37	36	34	36	37	39
6300	49	43	38	39	39	40	36	34	36	35	31	34	33	33	36	32	35	35	38
8000	50	42	39	36	39	38	36	34	35	34	31	34	32	32	32	31	37	37	39
10000	51	43	38	36	38	39	36	32	33	31	29	32	30	30	37	28	37	37	39
OVERALL	81	81	79	78	80	80	80	83	84	84	85	85	85	85	85	87	87	86	78

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 5.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.6
TEST AF-706-C01
RUN 02
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 28 C BAR PRESS = .748 M MG REL HUMID = 69 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	85	86	81	84	83	82	80	87	87	86	88	89	93	89	87	88	84	89	84
16	86	87	82	84	83	84	85	88	89	90	87	90	90	89	89	90	84	88	86
20	81	79	82	83	83	86	84	88	89	91	91	92	90	92	89	89	90	92	91
25	72	70	75	77	78	79	80	85	86	89	86	87	83	86	88	91	89	90	91
31.5	83	66	86	74	74	74	75	77	77	80	82	83	85	87	87	89	89	88	89
40	83	71	71	73	75	75	76	77	76	76	77	81	82	83	86	87	88	87	89
50	67	67	70	69	72	73	72	74	74	75	74	73	75	79	79	84	85	84	86
63	63	63	62	64	64	65	65	69	68	71	73	73	75	79	71	79	80	78	80
80	64	61	61	62	62	62	62	67	67	70	70	70	75	72	70	73	72	71	72
100	60	61	60	62	62	61	61	63	60	67	68	69	70	70	67	70	69	65	64
125	63	63	60	58	59	60	59	61	60	64	65	66	65	70	65	66	65	62	59
160	61	60	55	56	56	55	55	59	58	61	63	62	65	67	63	63	63	63	55
200	52	50	52	51	52	53	52	53	53	56	61	62	65	70	66	61	63	66	57
250	51	50	51	50	50	50	52	53	53	55	60	62	65	68	69	67	63	62	61
315	51	50	49	47	46	44	46	47	49	51	55	56	57	62	61	60	56	55	60
400	51	50	49	47	48	43	44	43	44	48	52	53	53	57	55	52	51	52	61
500	53	53	50	50	52	50	48	46	45	49	52	50	52	55	50	51	52	53	58
630	51	52	48	46	52	48	47	47	46	48	51	50	50	55	51	50	53	54	57
800	50	52	48	47	50	46	49	46	46	50	50	51	51	55	51	52	52	53	55
1000	50	50	46	48	50	49	46	48	44	48	49	50	52	55	52	52	53	53	53
1250	51	54	49	48	50	49	46	46	46	48	49	52	52	55	55	52	53	52	51
1600	49	50	46	48	47	46	44	46	44	47	48	52	51	56	55	53	49	49	50
2000	46	49	46	48	46	43	43	41	43	48	47	50	51	54	50	47	47	48	49
2500	41	44	40	42	42	41	40	39	41	44	44	47	49	50	45	46	46	46	46
3150	38	39	38	38	39	37	39	38	43	46	43	46	46	47	44	45	45	45	47
4000	37	38	37	37	37	36	39	37	43	45	41	44	43	45	44	44	44	43	44
5000	37	37	36	38	37	35	37	36	44	46	40	42	41	43	43	44	43	42	44
6300	37	36	36	36	36	34	36	36	42	43	38	40	39	42	41	42	41	41	42
8000	36	34	36	35	36	34	34	36	41	42	38	36	38	41	40	41	40	41	41
10000	31	32	33	32	34	32	32	33	39	38	35	35	36	37	37	38	38	39	40
OVERALL	93	89	87	89	93	90	91	93	91	95	95	96	96	97	96	97	96	97	97

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 52

MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST RF-705-081
RUN 01
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 28 C
BAR PRESS = .748 M HG
REL HUMID = 69 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	93	91	95	96	98	91	89	89	92	93	92	95	93	95	92	96	94	94	94
16	86	84	89	87	88	88	92	90	92	96	95	97	93	97	95	96	99	95	95
20	86	83	96	90	99	93	93	94	96	96	97	98	97	100	96	98	98	99	99
25	81	79	82	83	86	86	91	90	94	95	97	97	97	96	96	97	97	97	97
31.5	81	79	75	80	84	82	86	88	89	92	94	95	93	96	96	96	98	97	97
40	79	78	76	81	83	90	85	89	94	89	91	93	96	96	96	96	96	96	96
50	76	75	80	80	83	82	84	85	87	91	94	97	91	93	96	95	96	96	96
63	75	74	72	77	80	76	76	81	80	81	90	92	95	94	90	92	97	93	93
80	73	71	70	71	76	70	73	74	76	79	92	92	91	91	93	94	95	97	97
100	73	72	69	71	76	68	70	70	73	75	77	78	79	79	77	77	76	79	79
125	76	73	70	69	72	69	70	69	70	73	74	75	75	75	75	73	74	77	73
160	70	69	65	66	68	64	64	63	65	70	72	72	72	71	72	69	71	69	69
200	62	61	64	63	62	60	60	60	63	66	71	74	73	71	72	67	68	67	67
250	60	60	61	58	60	58	58	59	62	65	70	73	73	72	75	72	72	66	66
315	60	59	58	55	65	55	54	54	62	67	62	65	63	66	68	67	65	62	62
400	59	57	68	55	61	54	54	52	61	58	58	63	67	62	62	60	59	60	60
500	59	58	65	57	63	59	57	56	62	66	65	64	61	61	59	61	61	59	59
630	57	56	69	55	57	57	56	55	60	65	65	66	64	61	59	60	60	59	59
800	57	57	63	54	60	55	57	55	62	67	66	67	63	60	60	60	60	58	59
1000	58	58	62	55	59	56	56	54	60	67	66	67	63	60	61	61	61	59	59
1250	59	57	64	57	58	57	59	56	57	59	66	69	61	62	64	64	60	60	60
1600	56	55	52	54	60	55	59	50	58	56	65	60	62	62	63	61	61	57	56
2000	55	54	60	53	55	52	55	50	53	54	55	59	60	60	58	55	56	52	52
2500	49	48	55	49	50	48	51	47	54	53	52	55	57	54	52	52	52	49	49
3150	46	43	60	43	44	44	48	47	53	53	49	54	52	51	51	50	51	48	48
4000	44	42	52	42	44	42	45	46	51	52	49	52	48	49	51	50	50	47	47
5000	43	42	47	42	42	41	47	45	51	52	48	49	44	48	48	49	49	46	46
6300	42	41	47	41	41	41	46	43	48	51	47	47	47	47	47	48	48	44	44
8000	40	40	48	40	39	39	53	42	49	50	45	46	45	47	47	47	48	44	44
10000	38	37	51	36	37	37	52	41	46	47	43	47	43	44	45	45	46	42	42
OVERALL	94	93	93	94	95	96	98	98	100	102	103	104	105	105	104	106	106	105	104

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

FIGURE: 51 NORMALIZED FARFIELD NOISE LEVELS

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-706-001
RUN 01

26 OCT 81

PAGE 6

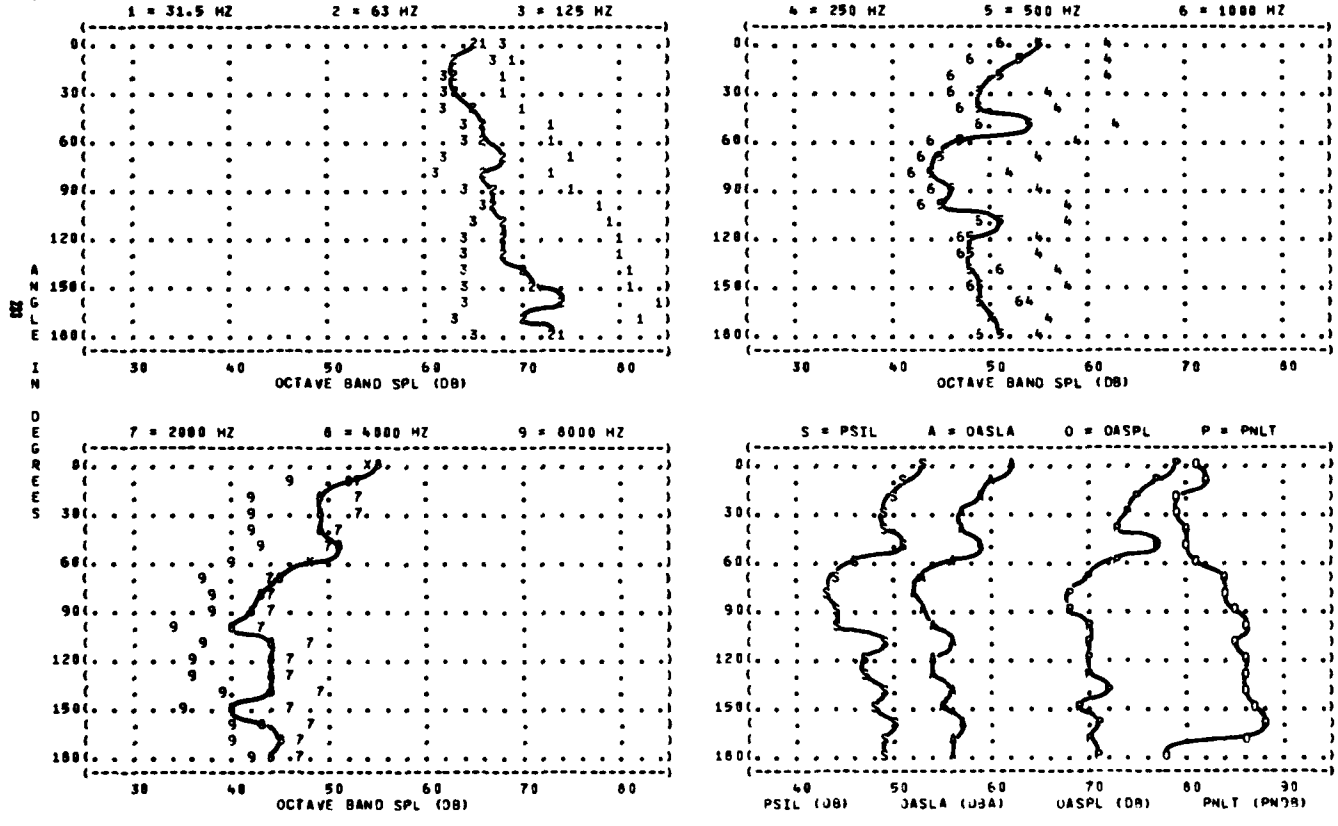


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

5.1

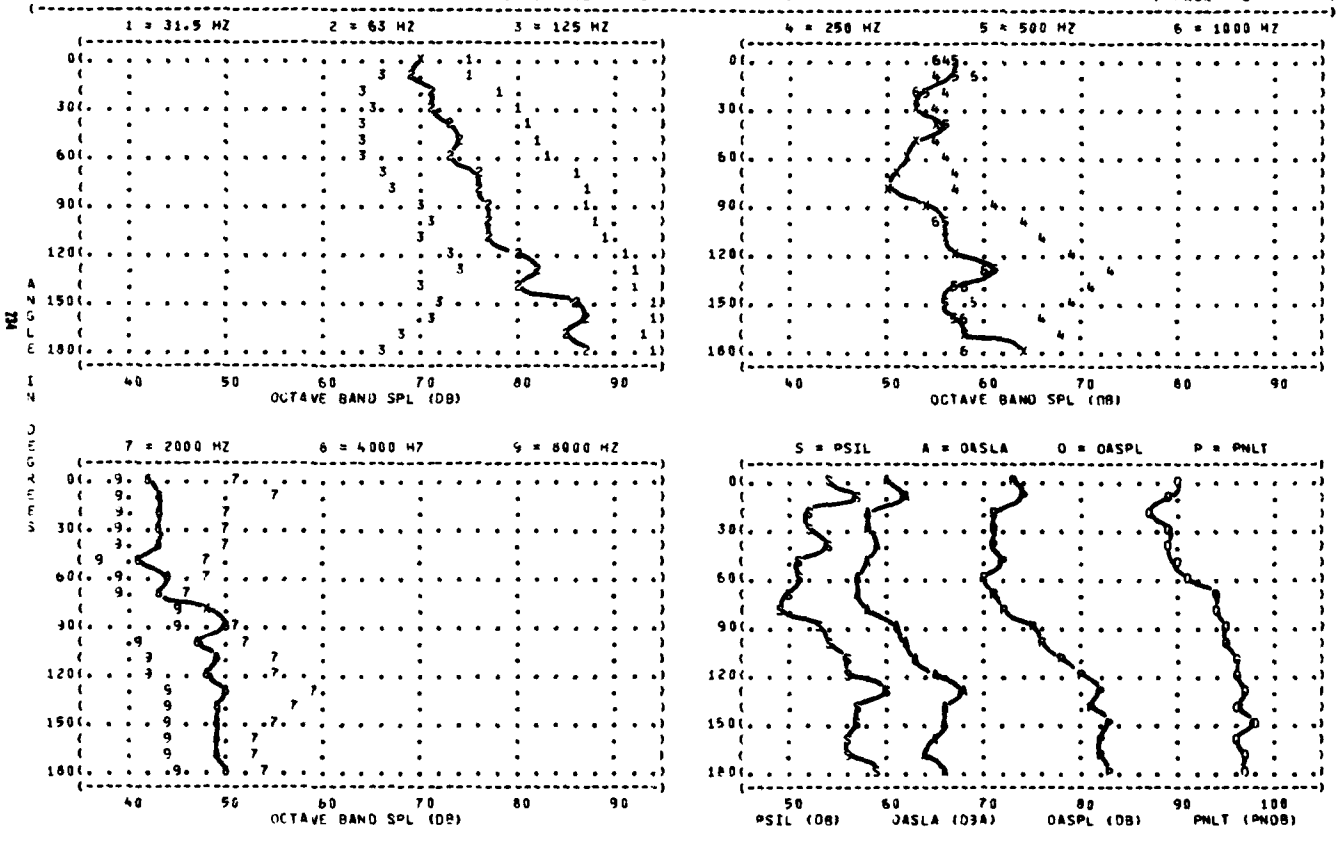
DISTANCE = 180 METERS

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-786-001
RUN 02
26 OCT 81
PAGE 6



5.1

FIGURE: NORMALIZED FARFIELD NOISE LEVELS

5.1

DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-706-001
RUN 03
26 OCT 81
PAGE 6

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

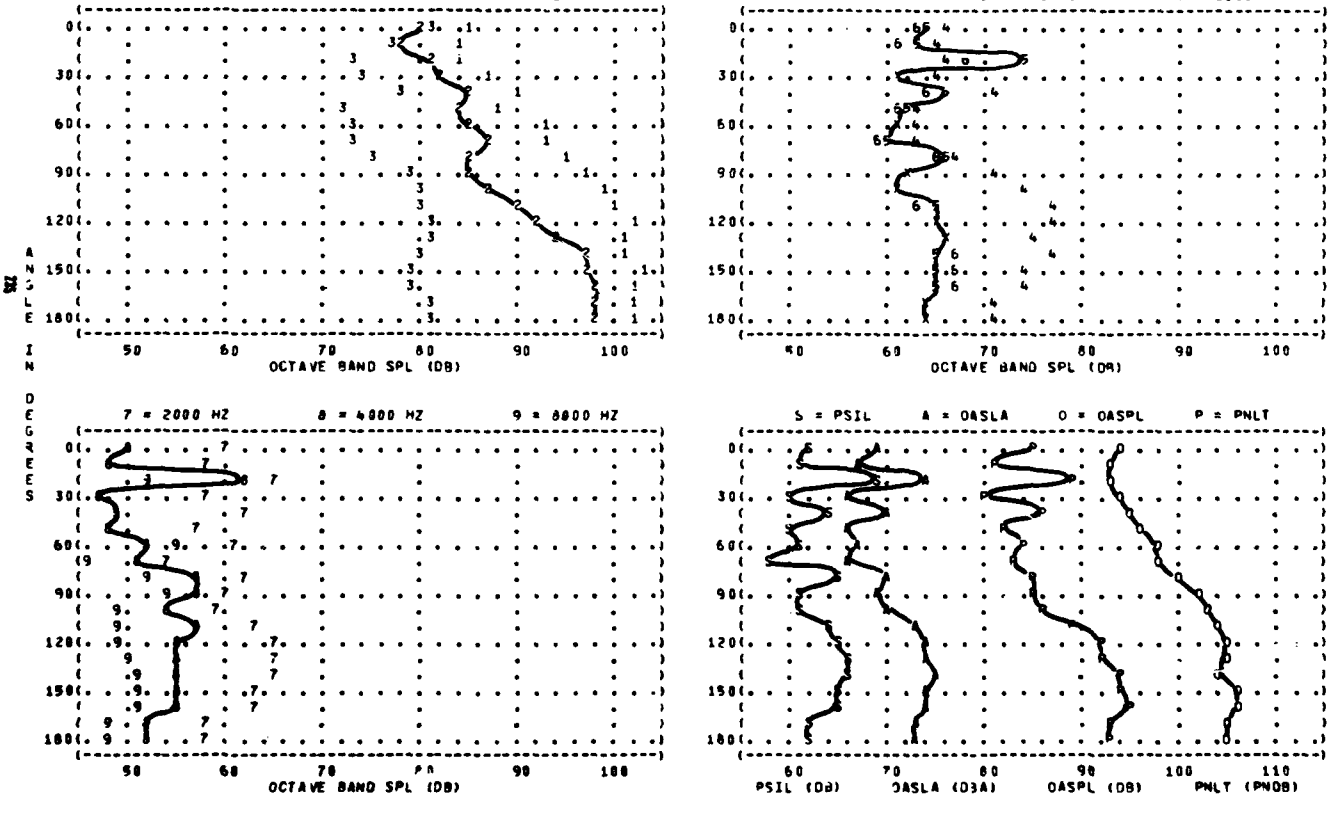


FIGURE: OVERALL SOUND PRESSURE LEVEL (DASPL)
5.2 EQUAL LEVEL CONTOURS (1/3)

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASF HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-706-001
RUN 01
26 OCT 81
PAGE 13

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90

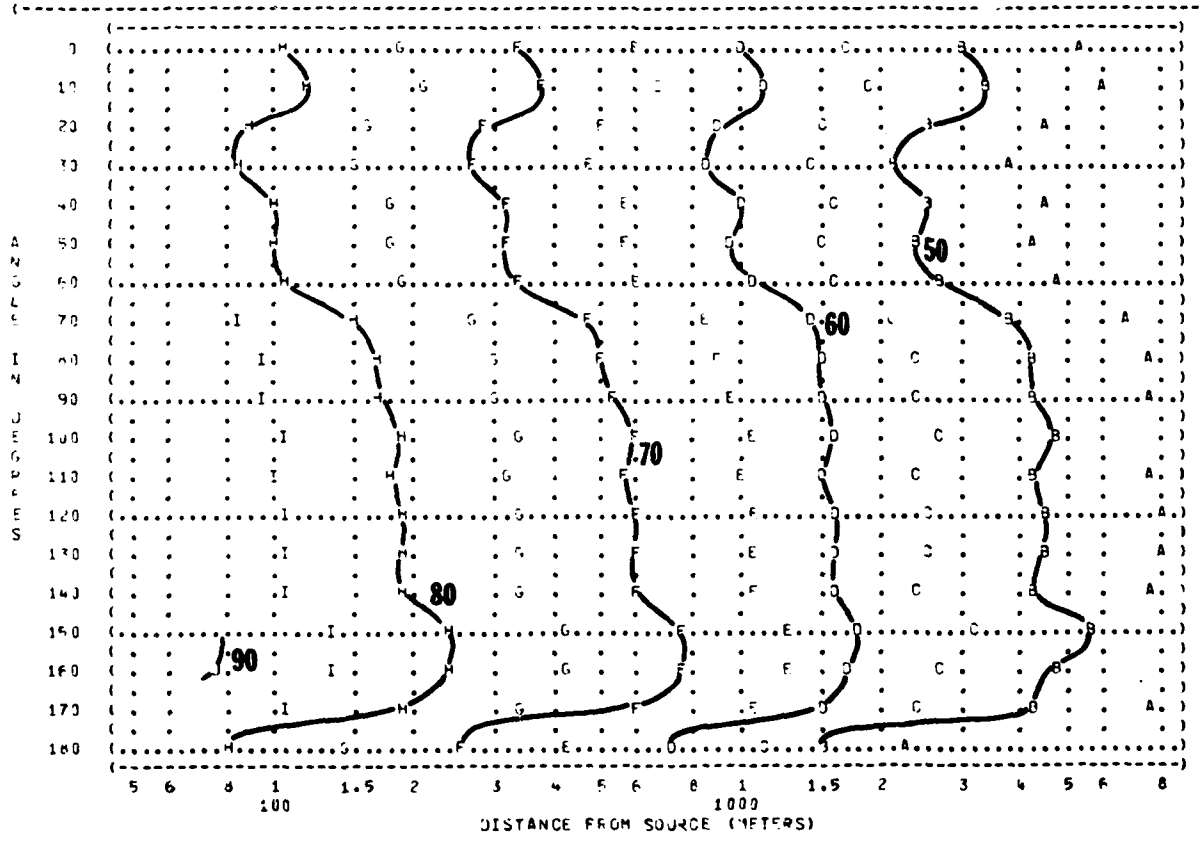


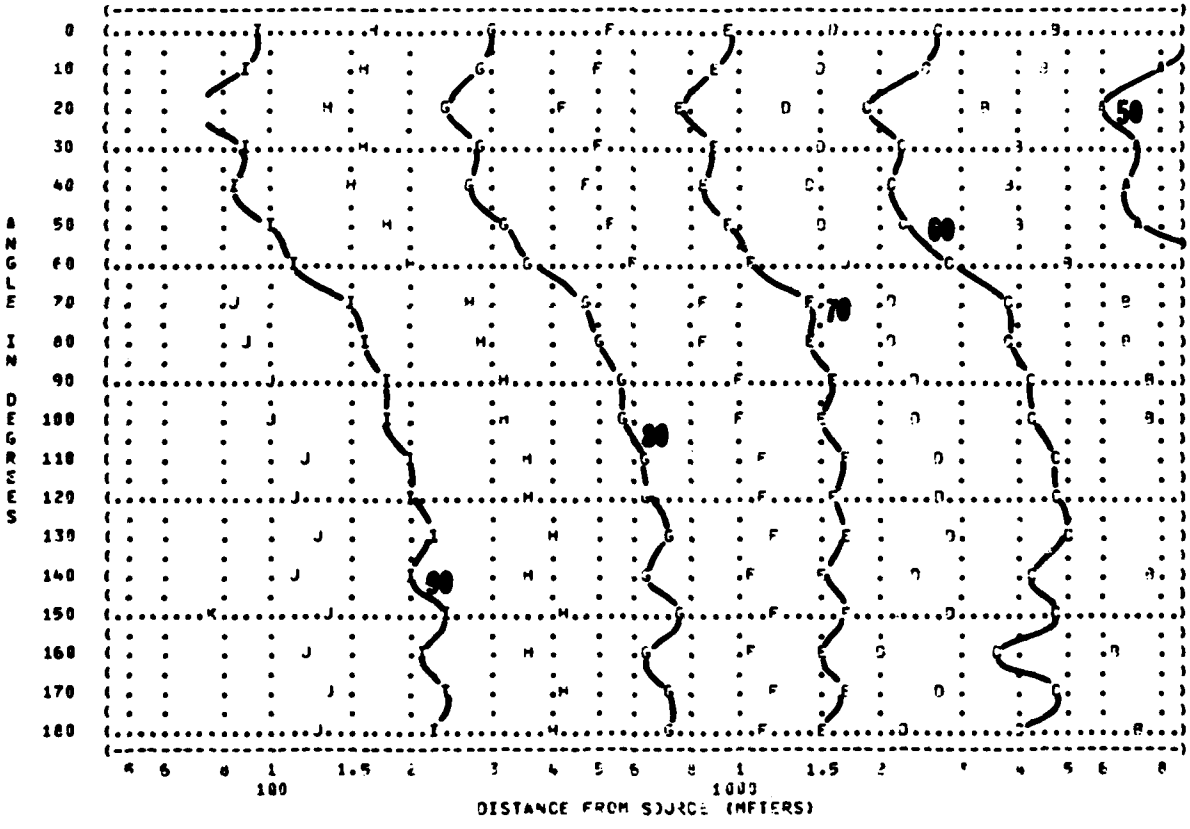
FIGURE: 5.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-706-001
RUN 02
26 OCT 81
PAGE 13

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DB
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95
K	100

FIGURE 5.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASF HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-706-001
RUN 03
26 OCT 71
PAGE 13

POINT	DB
A	55
B	60
C	65
D	70
E	75
F	80
G	85
H	90
I	95
J	100
K	105

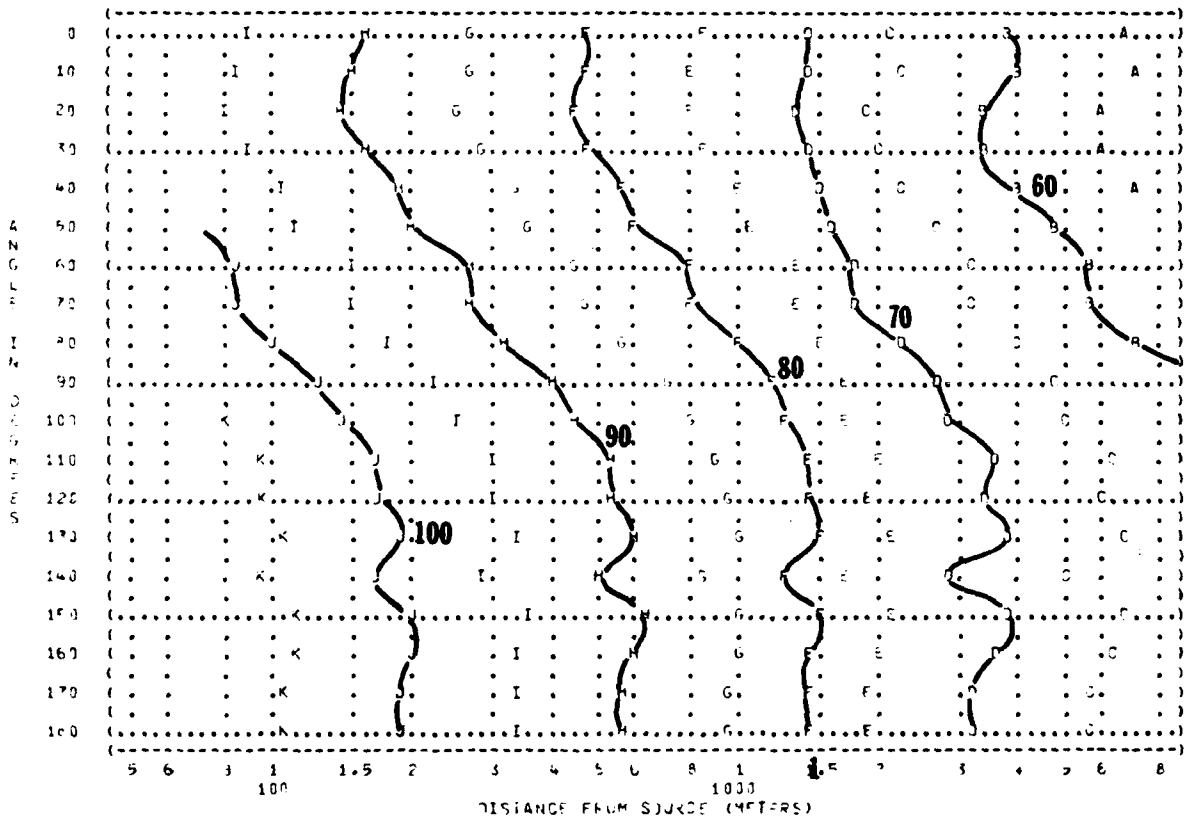


FIGURE 5.3 A-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (CSC)

IDENTIFICATION: OMEGA 1.4 / TEST BF-706-001 / RUN 01 / 26 OCT 81 / PAGE 14

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASF HUSH HOUSE / J75-P-19 ENGINE / FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C / BAR PRESS = .760 M HG / REL HUMID = 70 %

POINT	OBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

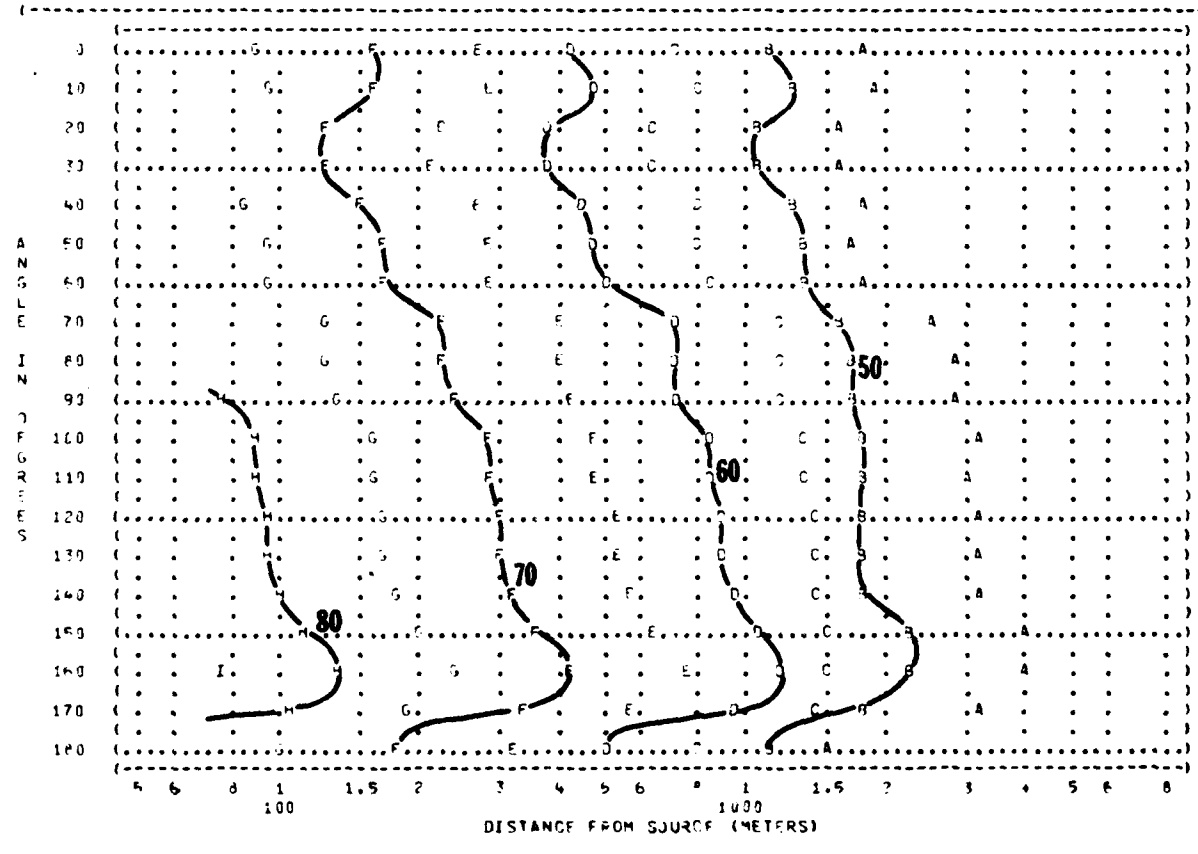


FIGURE 5.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (C3C)

IDENTIFICATION:
OMEGA 1.4
TEST AF-706-001
RUN 02
26 OCT 91
PAGE 14

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

OPERATION:
MILITARY POWER (105%)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	OSC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95

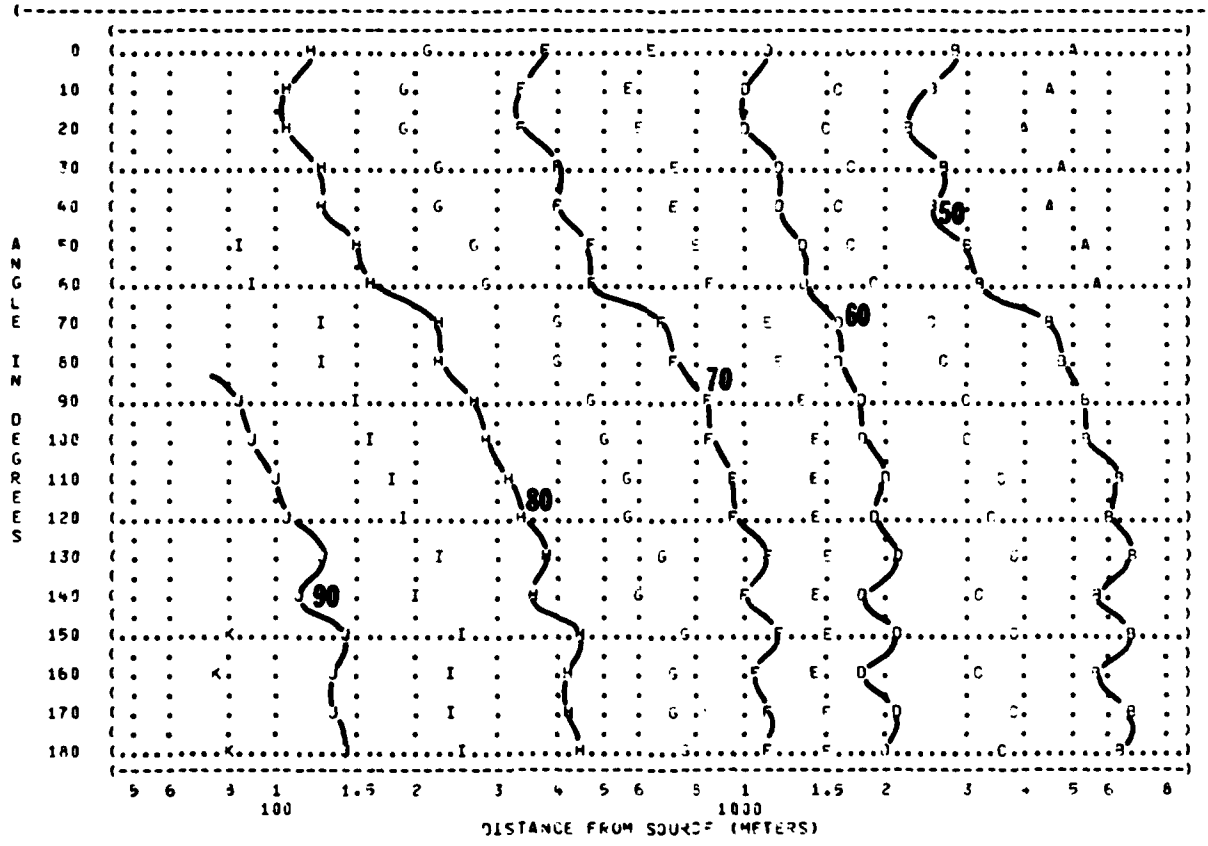


FIGURE 5.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (EBC)

IDENTIFICATION:
OMEGA 1.4
TEST AF-706-001
RUN 03
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95
L	100

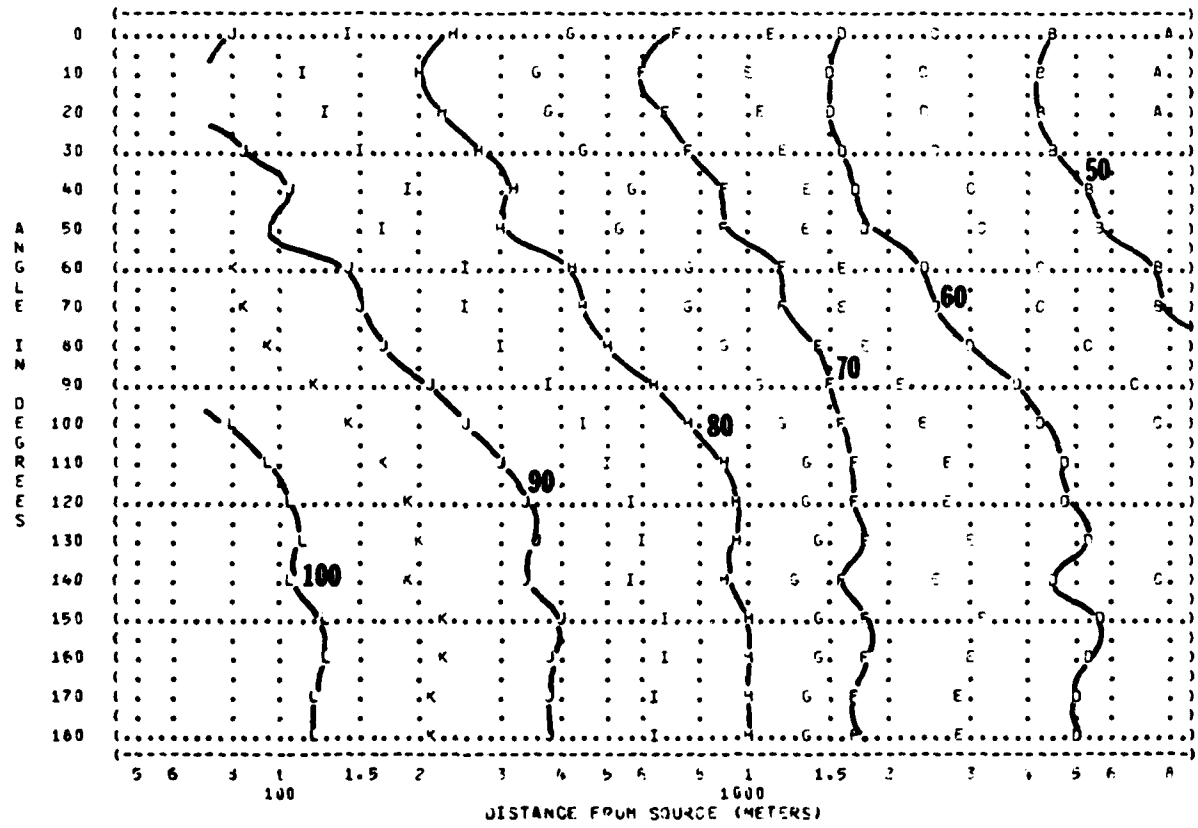


FIGURE 5.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (EDA)

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASF HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST AF-706-001 RUN 01 26 OCT 81 PAGE 15

POINT	DbA
A	45
B	50
C	55
D	60

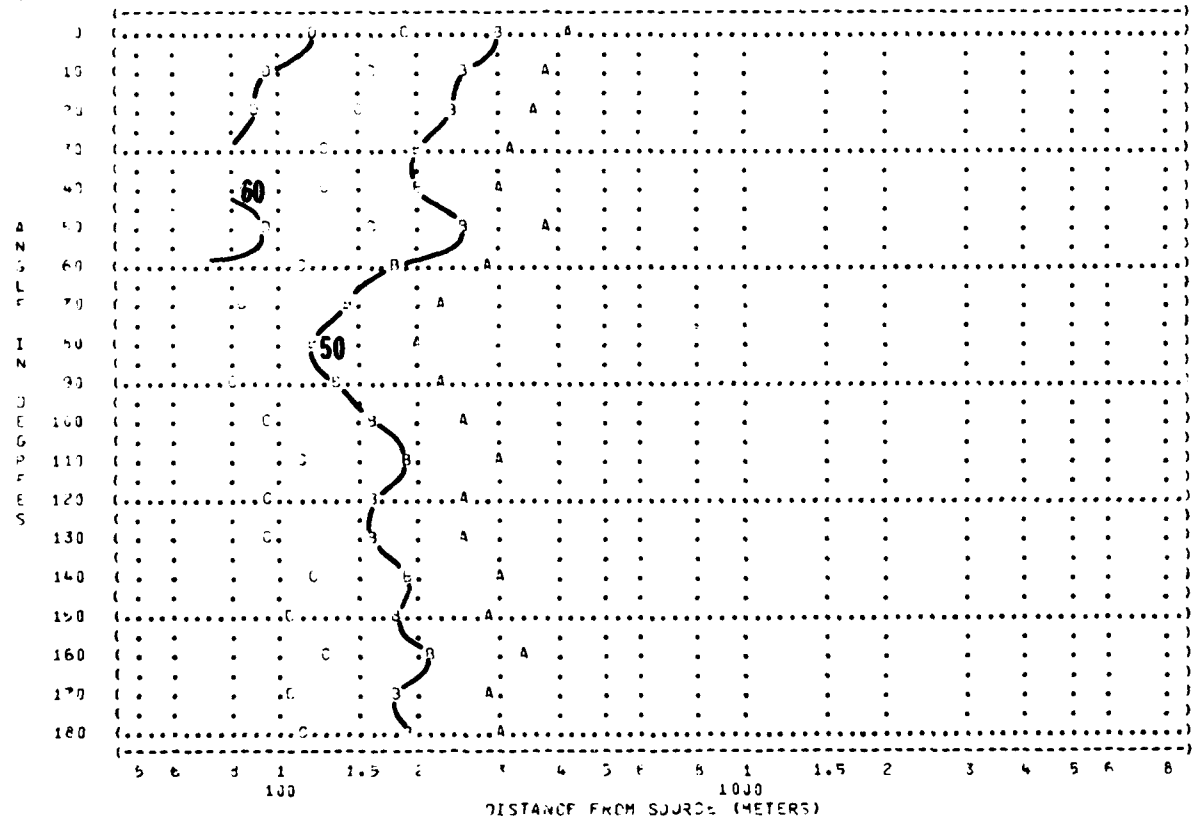


FIGURE 5.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION: OMEGA 1.4 TEST AF-706-001 RUN 02 26 OCT 91 PAGE 15

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASF HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70

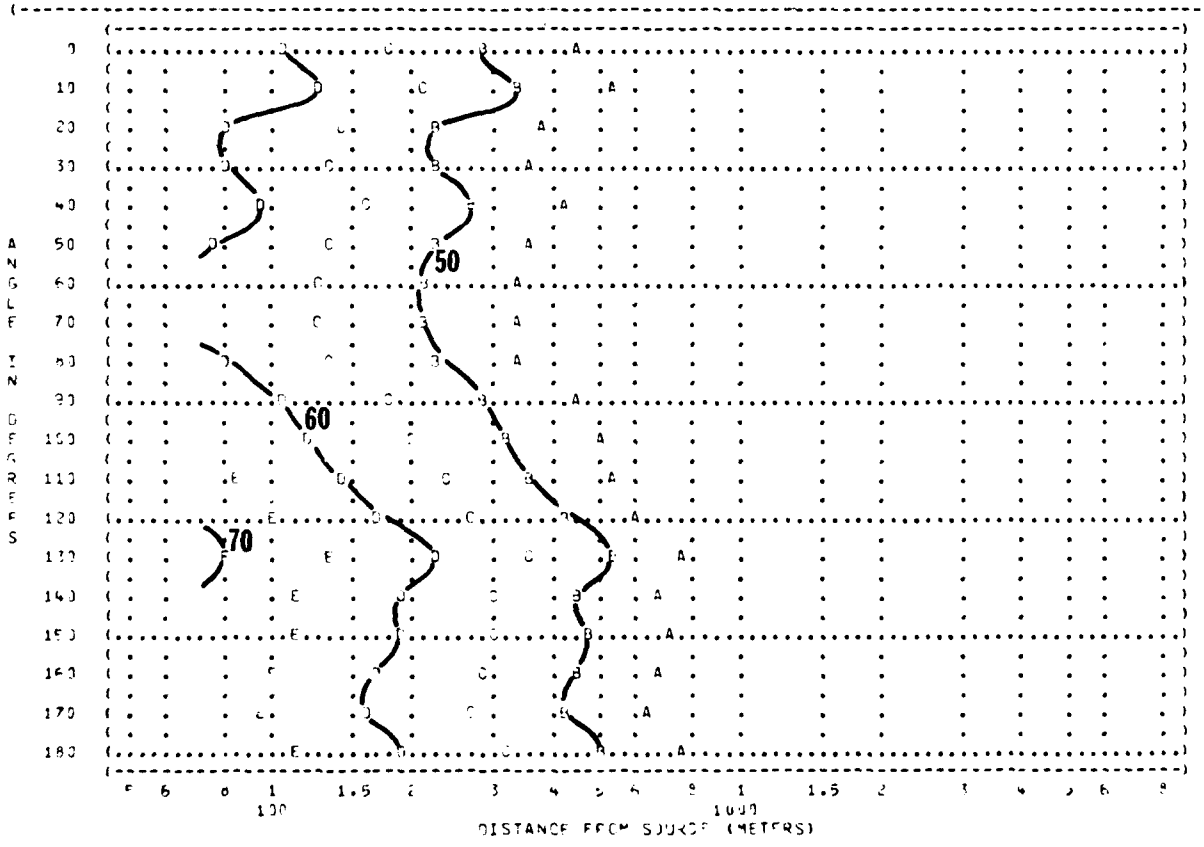


FIGURE: A-WEIGHTED OVERALL SOUND LEVEL (OASLA)
5.4 EQUAL LEVEL CONTOURS (DBA)

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-706-001
RUN 03
26 OCT 81
PAGE 15

POINT	DBA
A	45
B	50
C	55
D	60
F	65
F	70
G	75

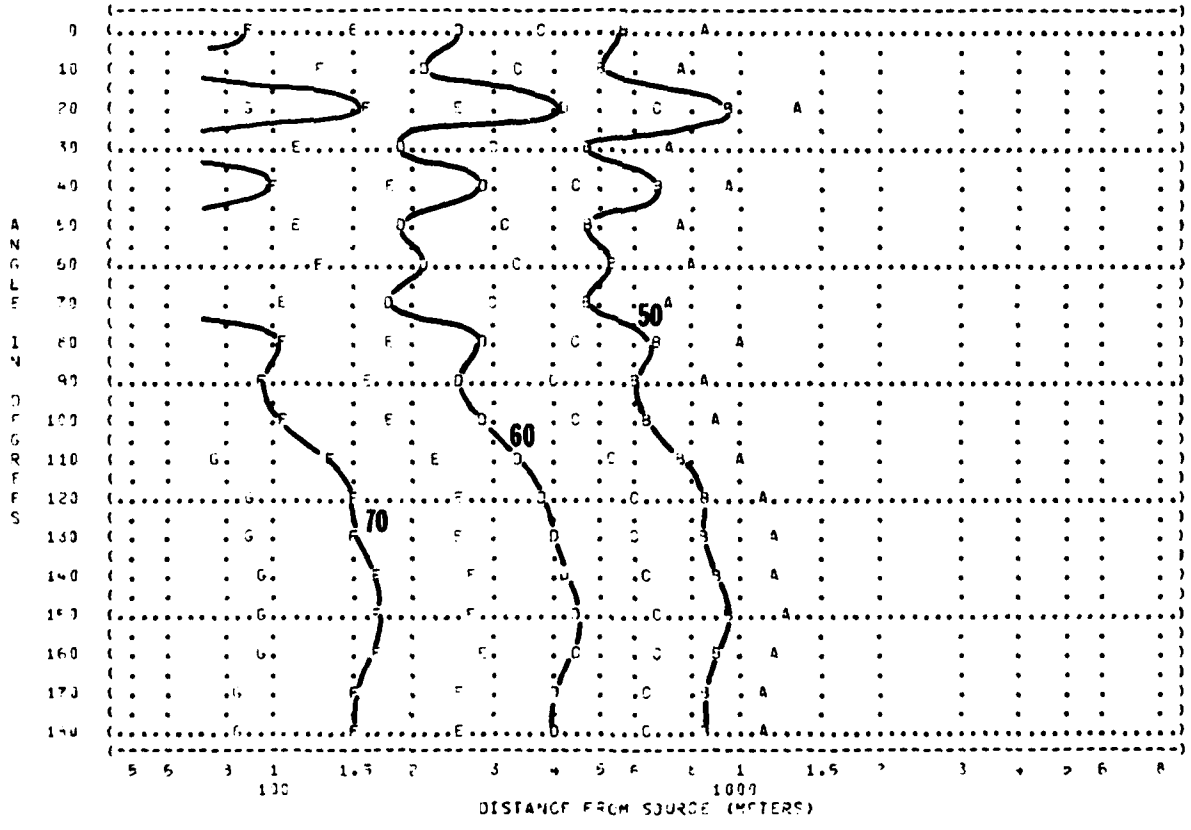


FIGURE: 5.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST AF-706-001
RUN 01
26 OCT 91
PAGE 16

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80

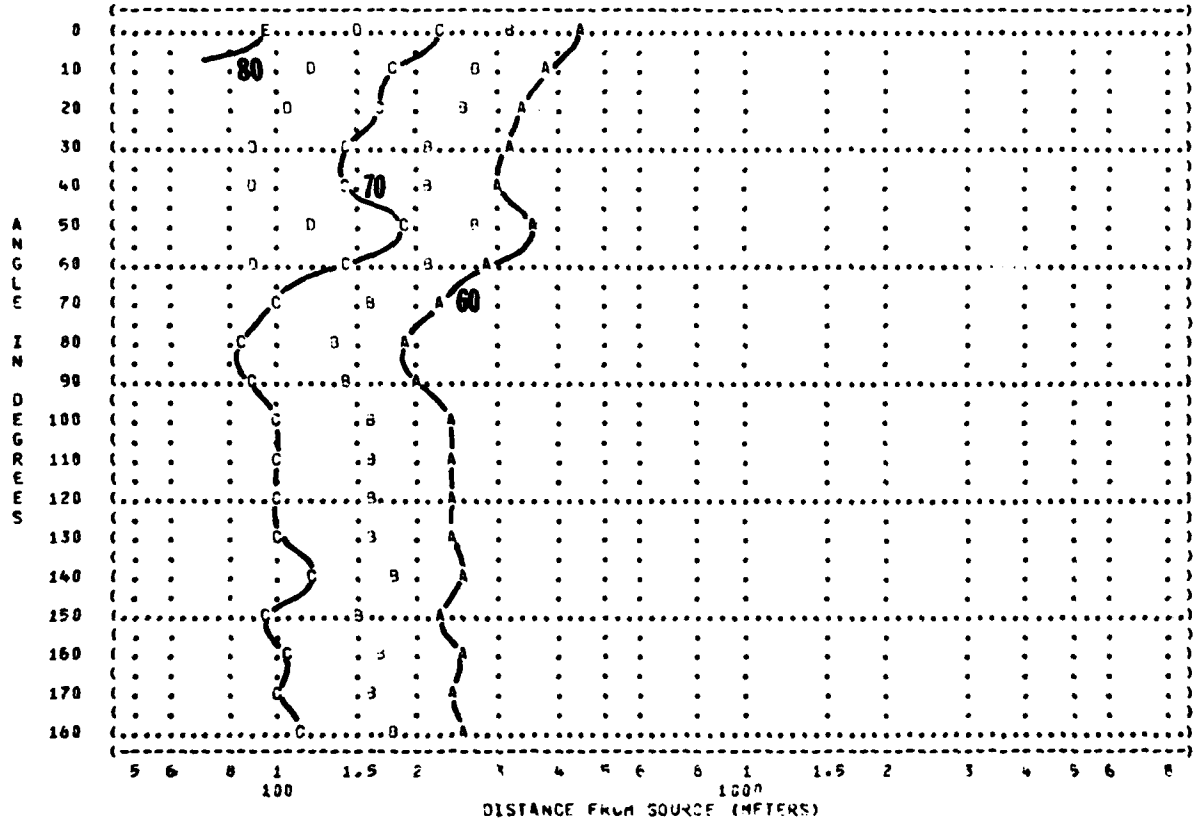


FIGURE: 5.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-706-001
RUN 02
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 73 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85

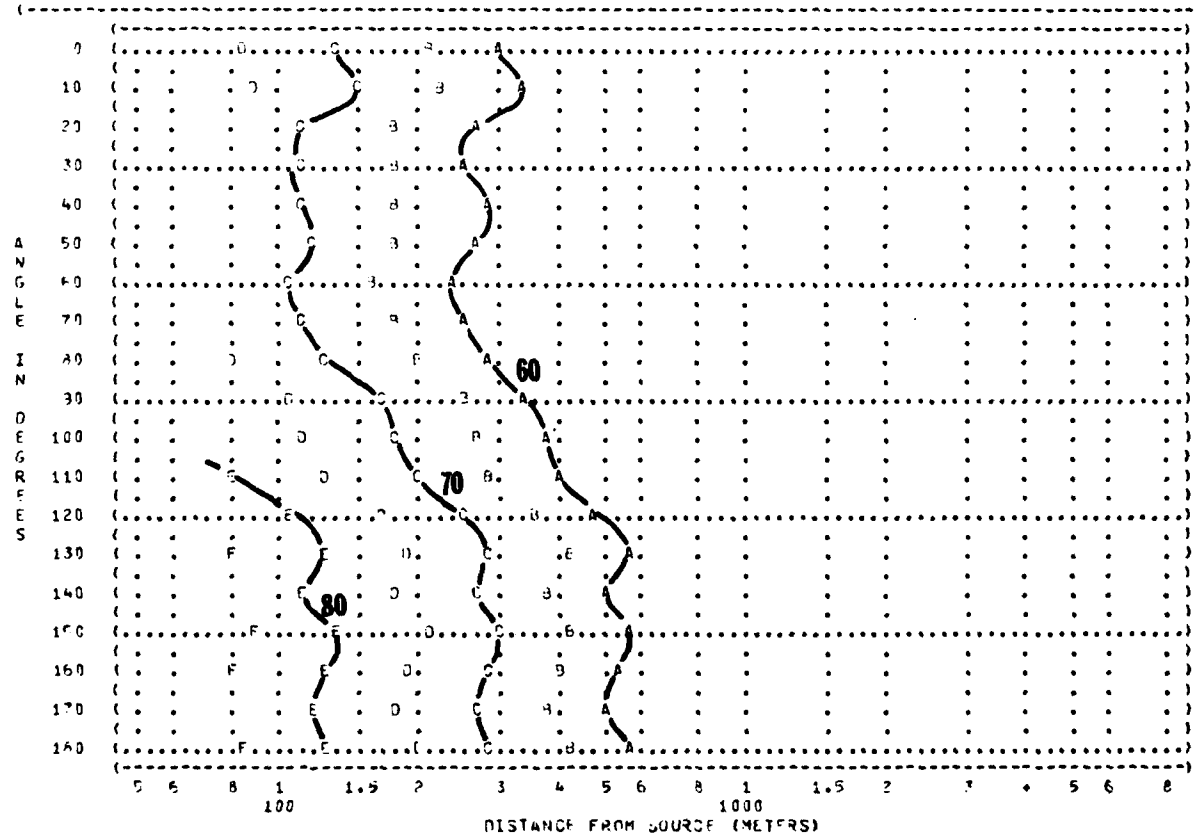


FIGURE 5.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION: OMEGA 1.4 TEST AF-706-001 RUN 01 26 OCT 81 PAGE 16

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASF HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95

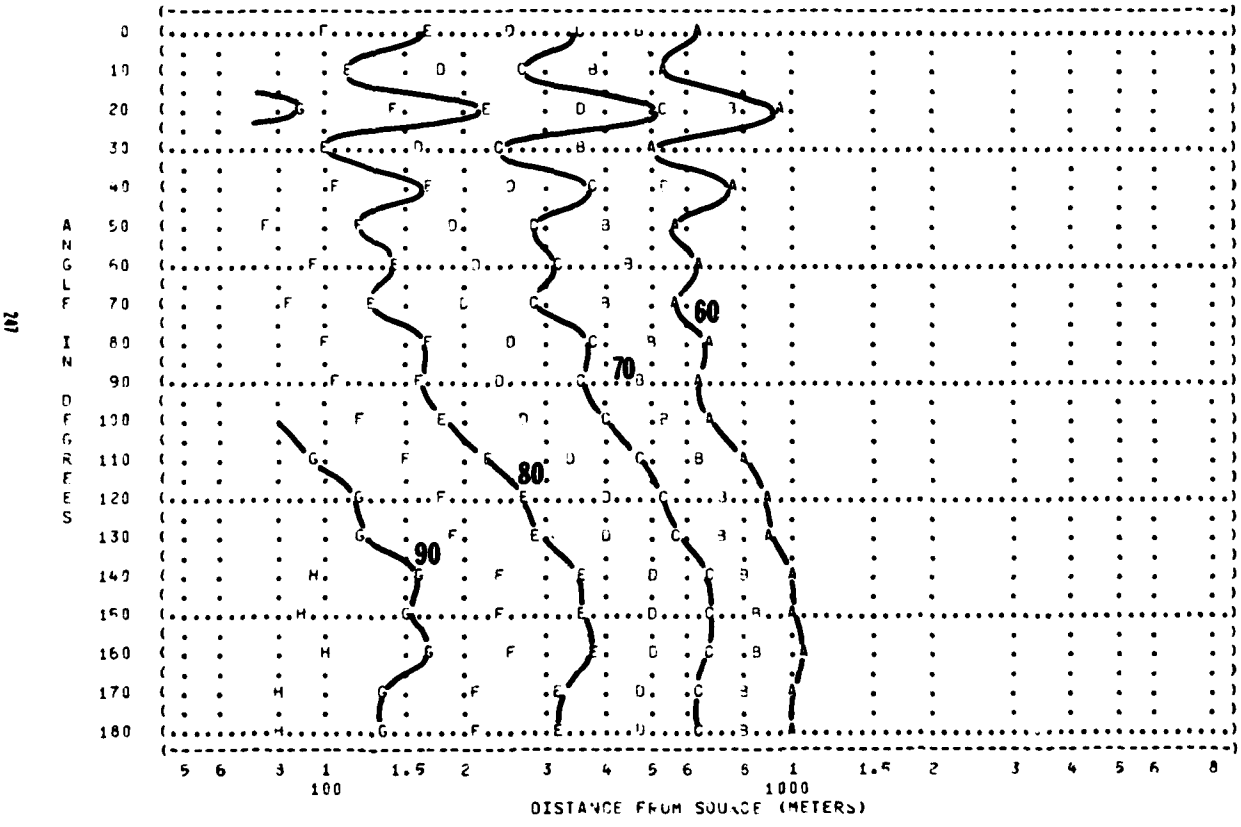


FIGURE 56 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (03)

IDENTIFICATION:
OMEGA 1.4
TEST BF-706-081
RUN 01
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

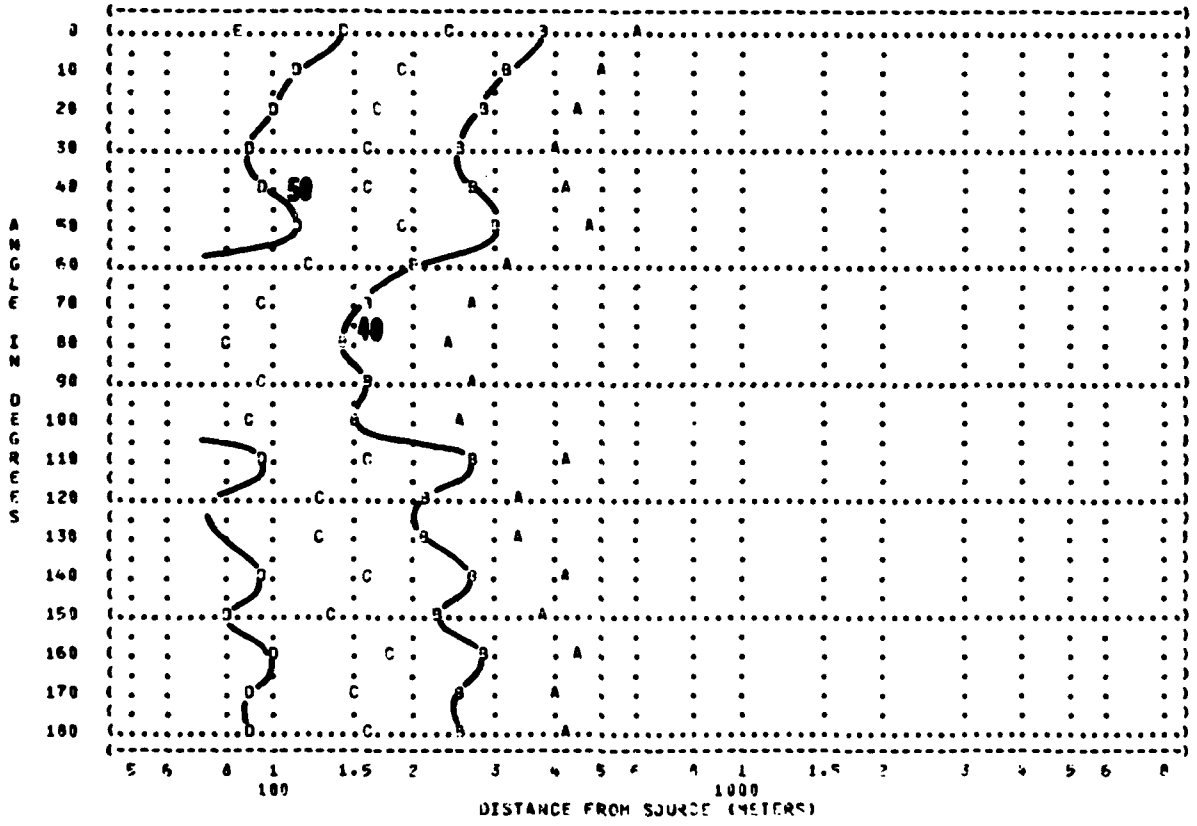


FIGURE: 5.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-706-001
RUN 02
26 OCT 81
PAGE 17

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

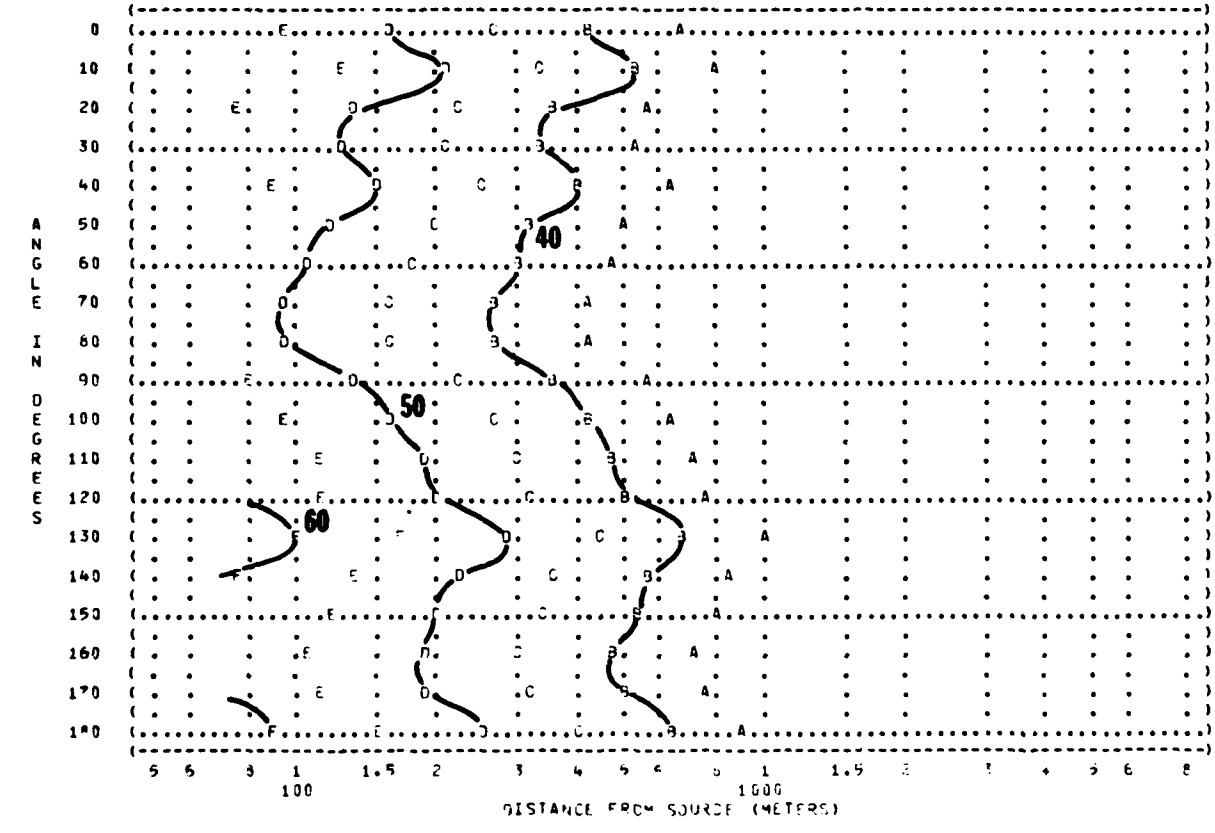


FIGURE 5.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION: OMEGA 1.4 / TEST AF-706-001 / RUN 03 / 26 OCT 81 / PAGE 17

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE / J75-P-19 ENGINE / FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C / BAR PRESS = .760 M HG / REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

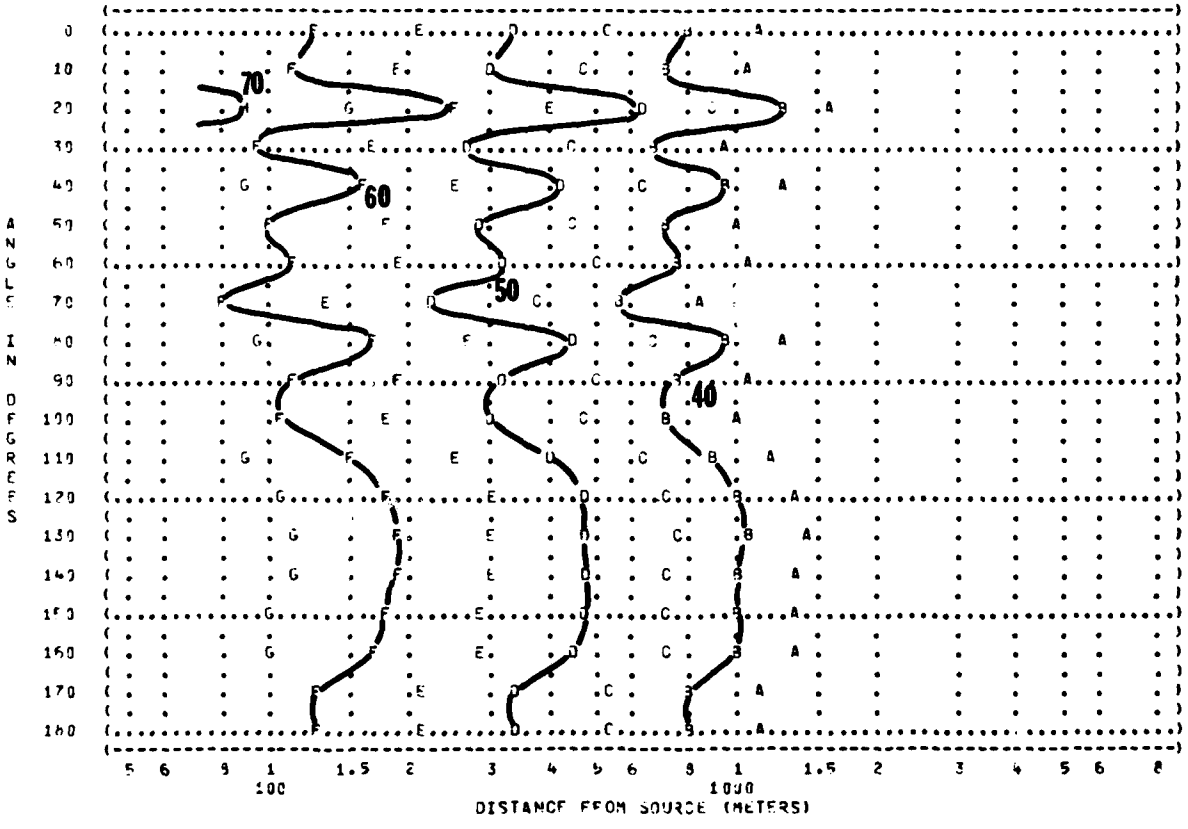


FIGURE 5.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-75, JULY 73) EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION: OMEGA 1.4 TEST OF-706-001 RUN 01 26 OCT 81 PAGE 7

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ANG HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

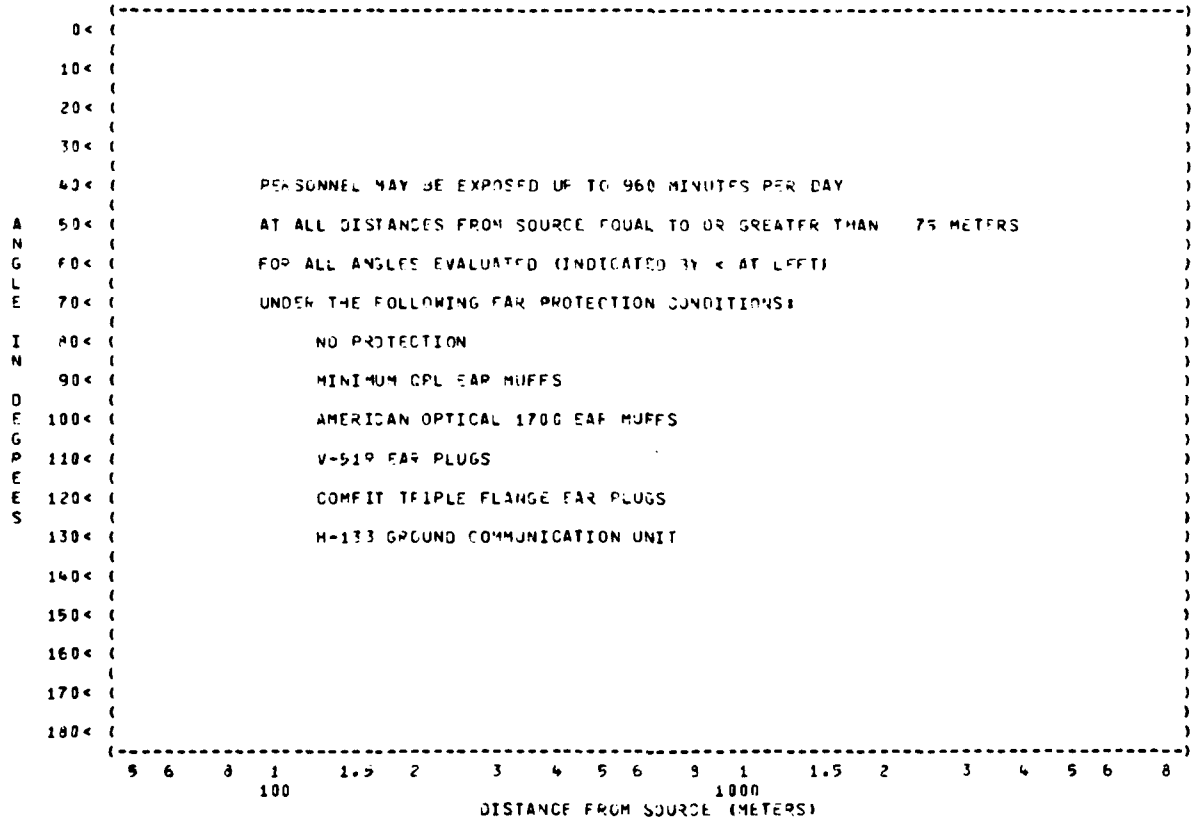


FIGURE 5.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-706-001
RUN 02
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

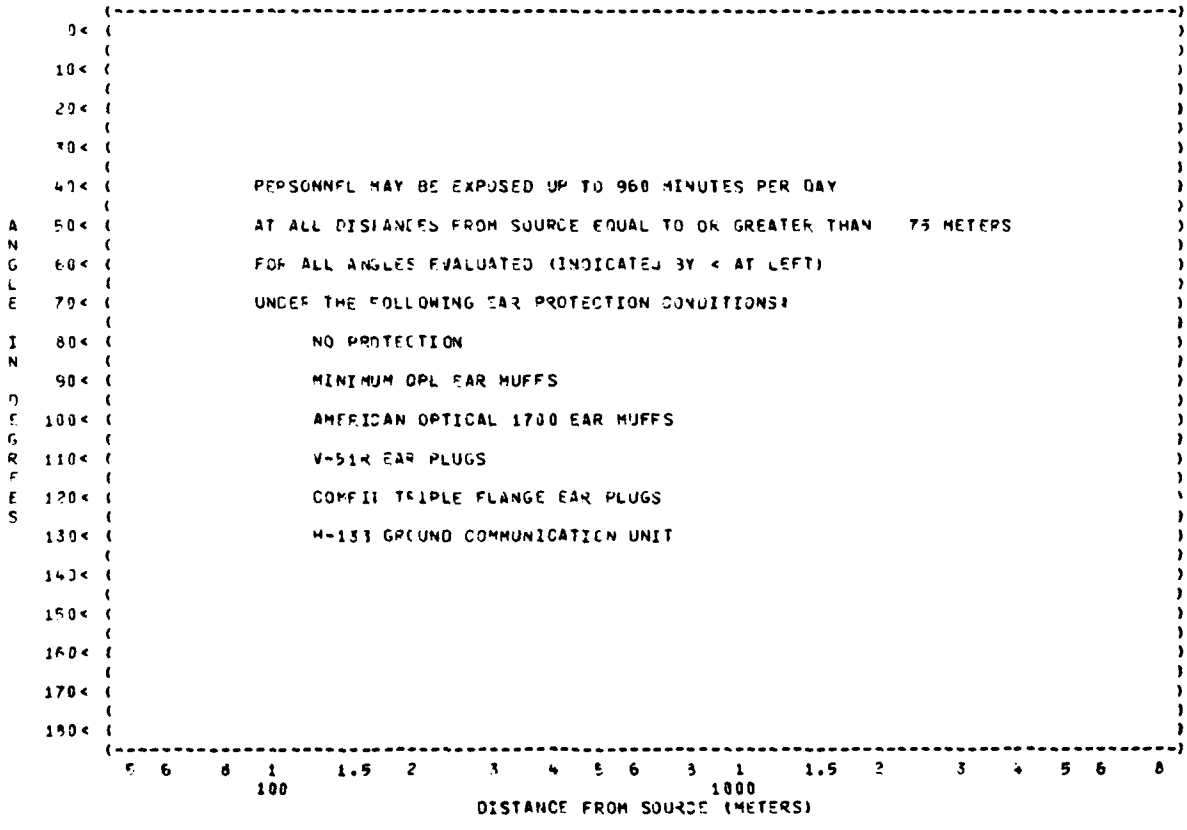


FIGURE: 5.7	MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)	IDENTIFICATION: OMEGA 1.4 TEST AF-706-001 RUN 03 25 OCT 81 PAGE *

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:
F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE	AFTERBURNER POWER (103%)	TEMP = 15 C
J75-P-19 ENGINE	SINGLE ENGINE	BAR PRESS = .760 M HG
FAR FIELD NOISE	GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	REL HUMID = 70 %

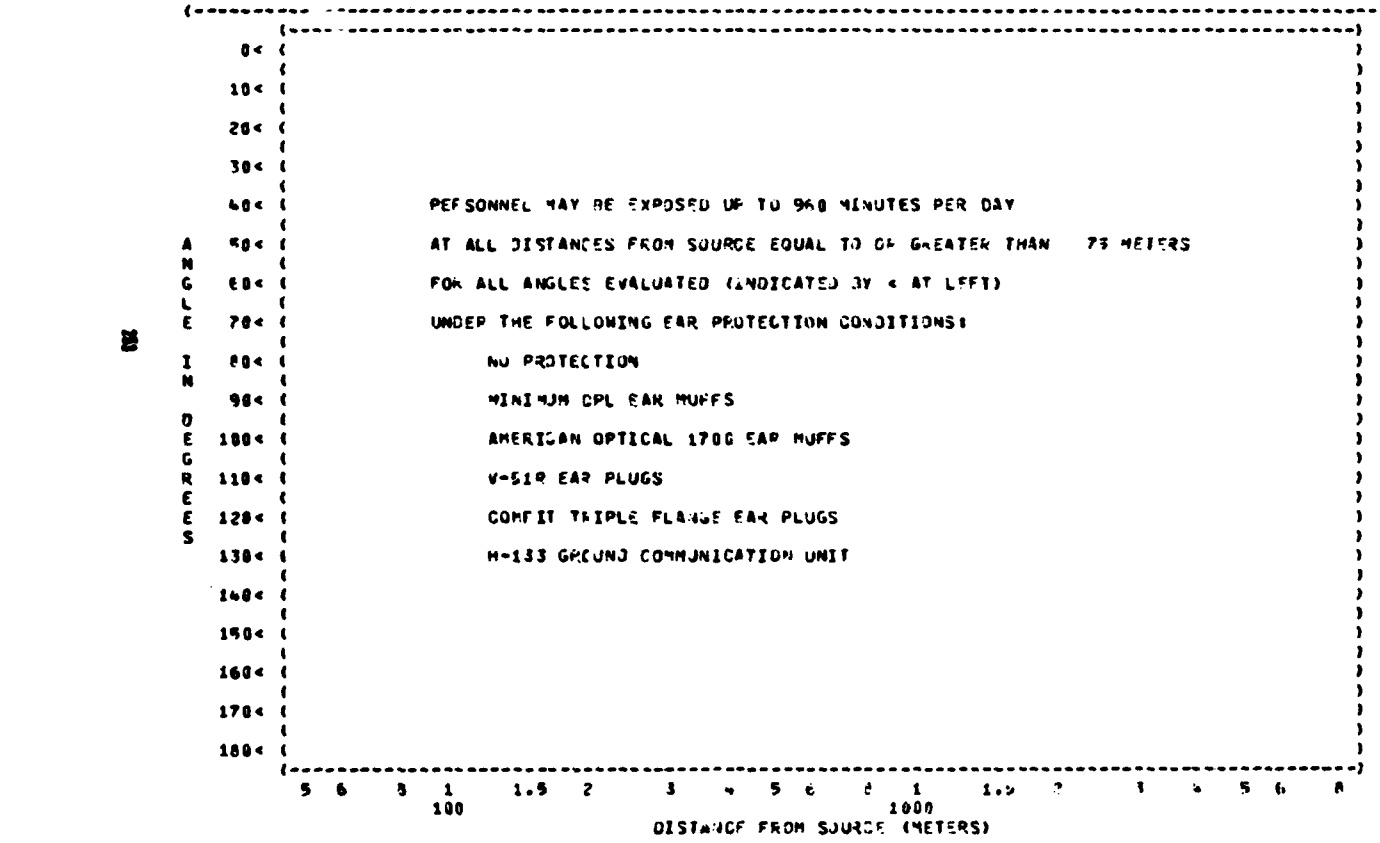


FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 / TEST AF-706-001 / RUN 01 / 26 OCT 81 / PAGE 18

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

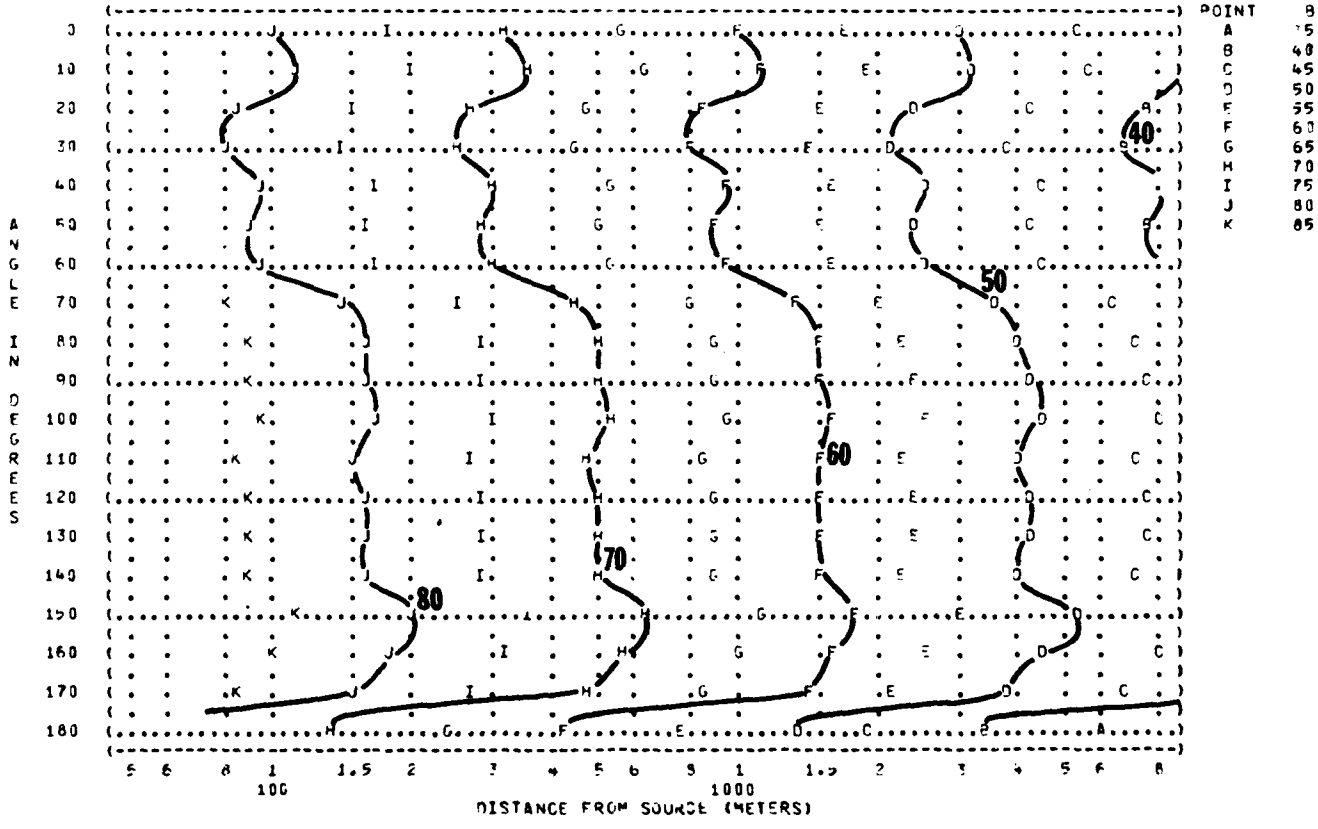


FIGURE: **5.8**

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
31.5 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST 82-706-001
RUN 01
26 OCT 81
PAGE 19

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASF HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

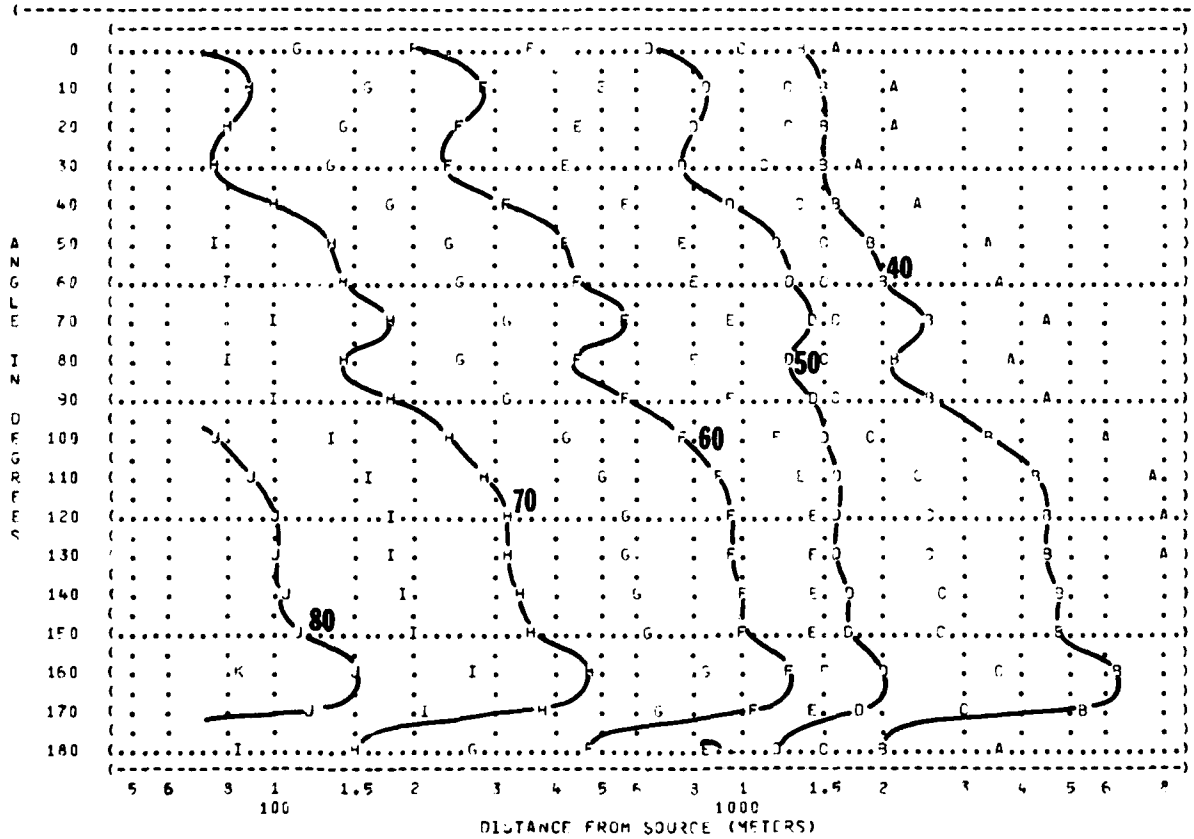


FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASF HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-706-001 RUN 01 26 OCT 81 PAGE 20

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

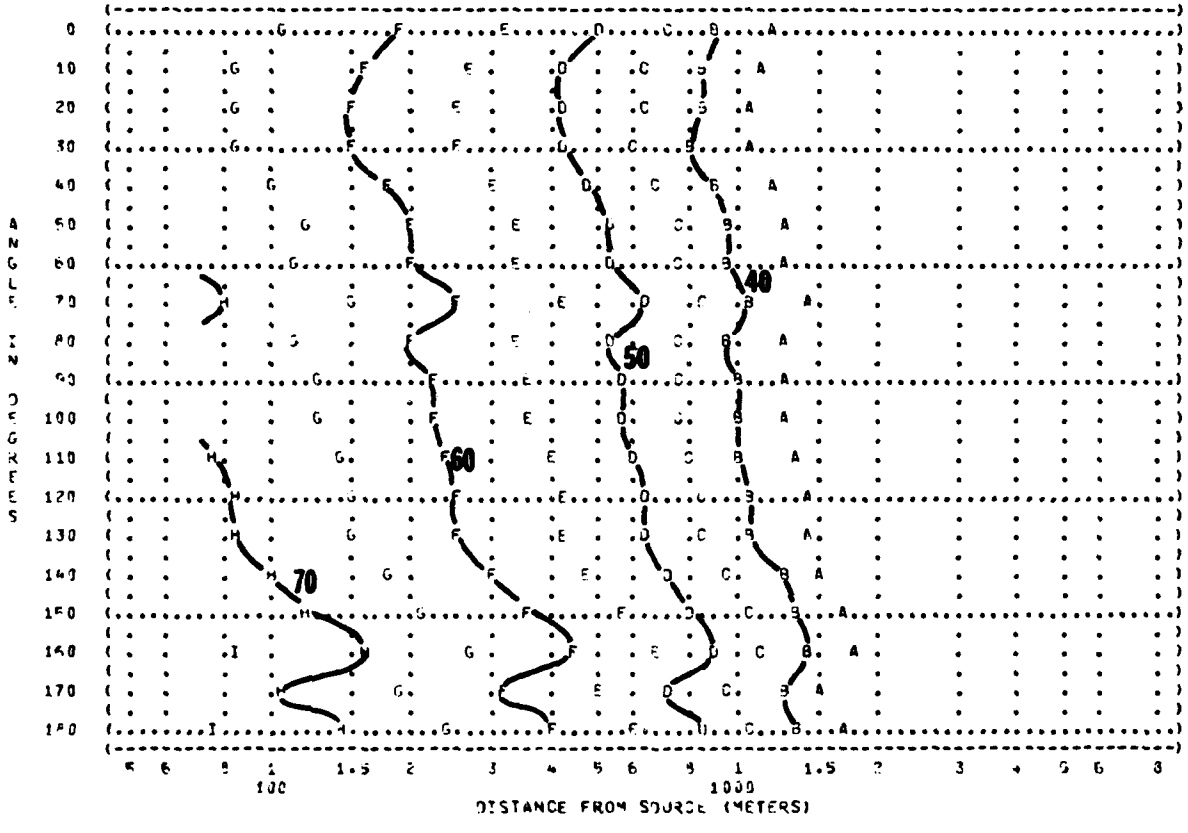


FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST AF-706-001 RUN 01 26 OCT 81 PAGE 21

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

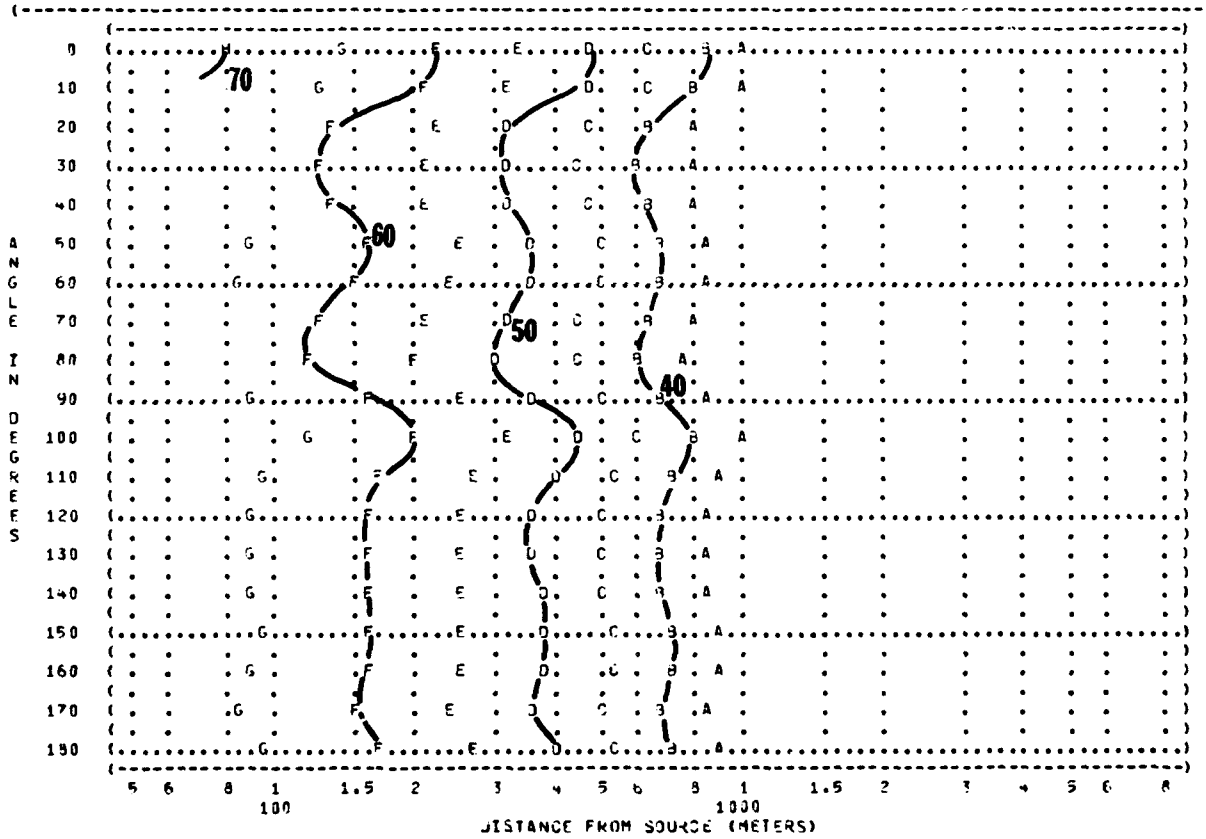


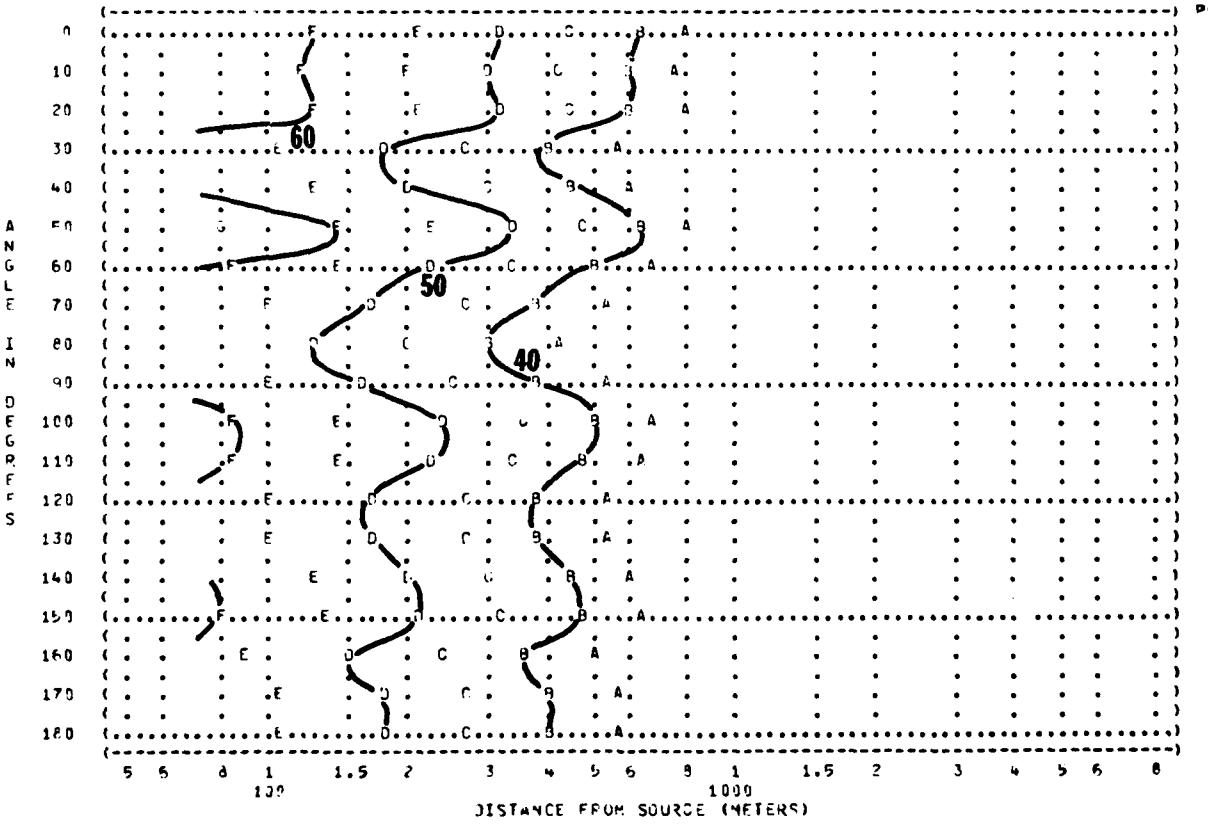
FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-135 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST AF-706-001
RUN 01
26 OCT 81
PAGE 22



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (EB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

OPERATION: 98% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMI = 70 %

IDENTIFICATION: OMEGA 1.4 TEST RF-706-001 RUN 01 26 OCT 81 PAGE 23

POINT	DB
A	55
B	60
C	65
D	70
E	75

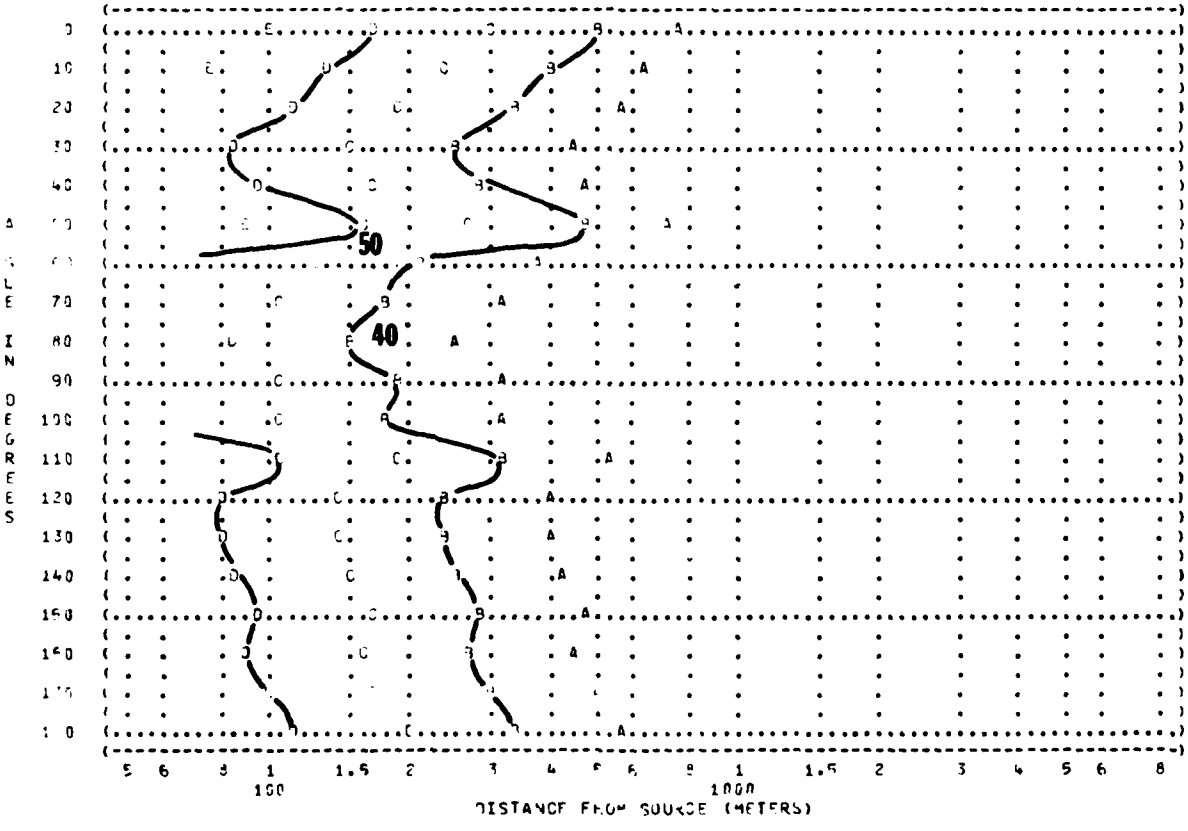


FIGURE: 58

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J79-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 78 %

IDENTIFICATION:
OMEGA 1.4
TEST OF-706-081
RUN 01
26 OCT 81
PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55

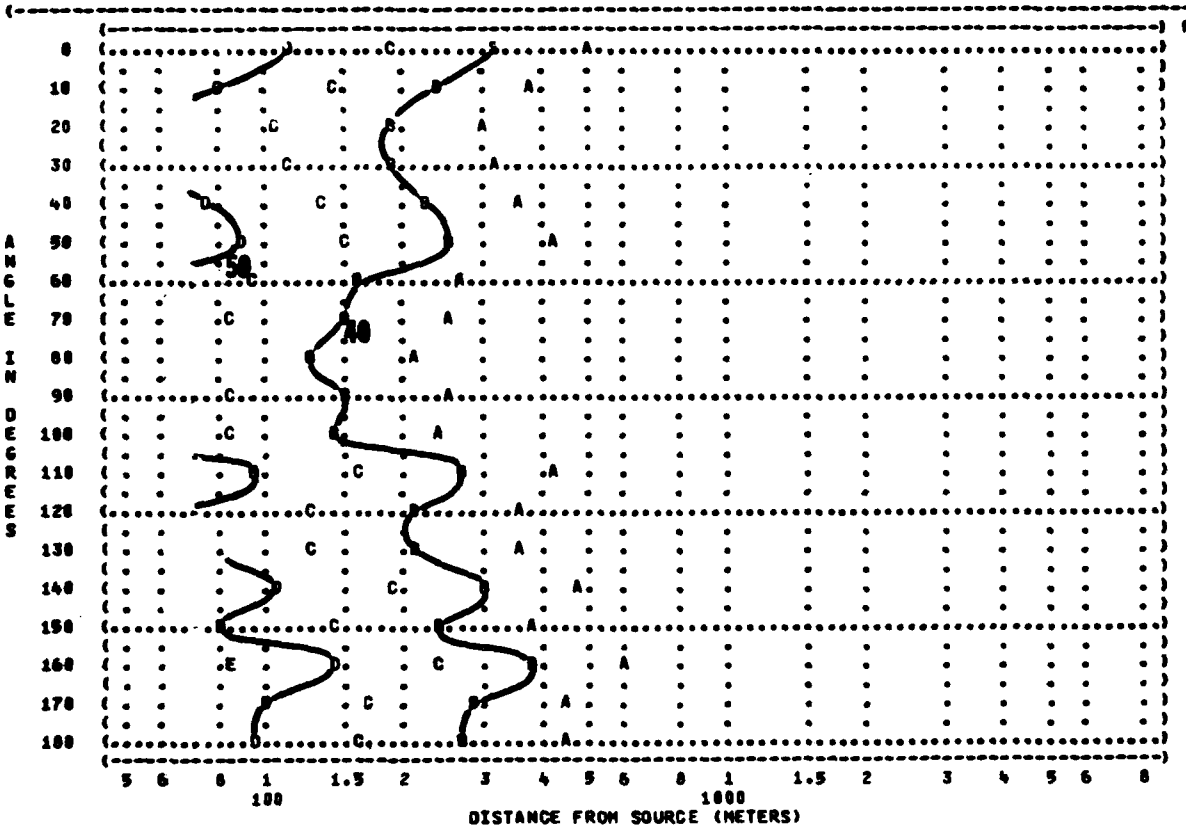


FIGURE 58 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST 8F-706-001 RUN 01 26 OCT 81 PAGE 25

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

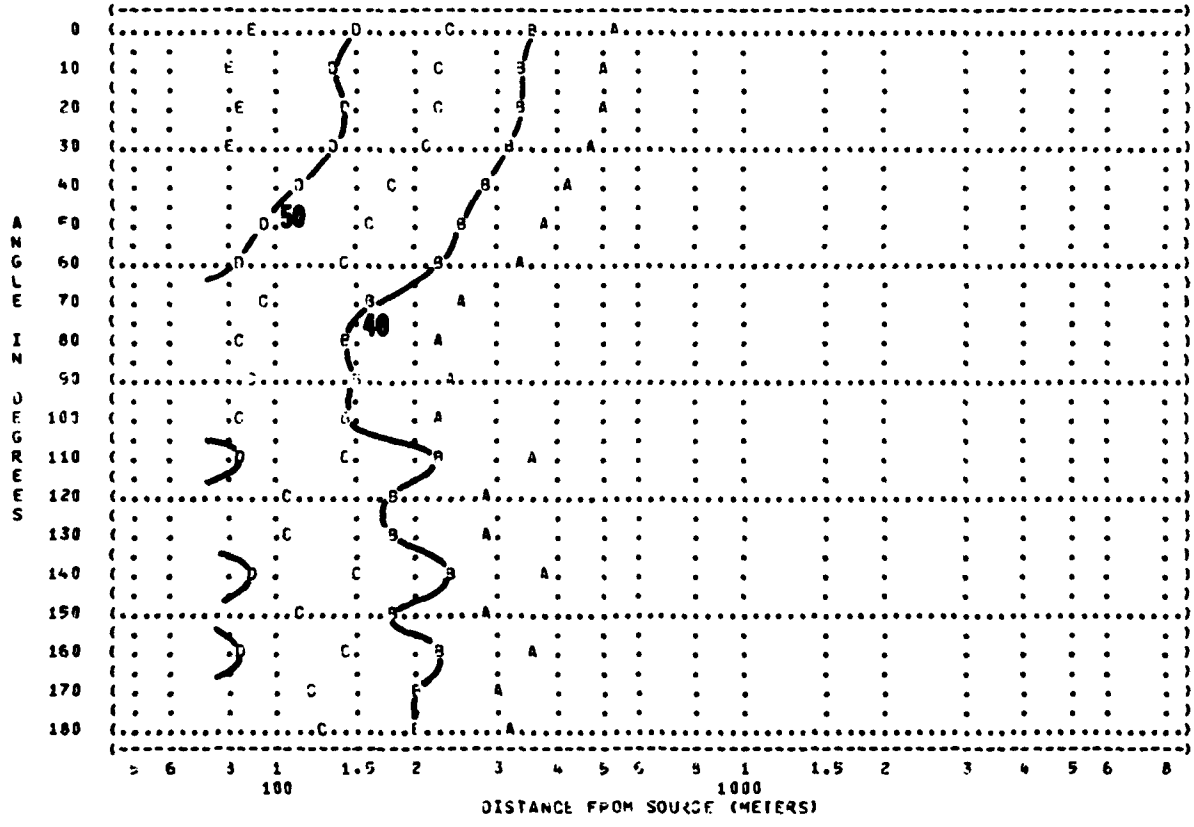


FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-706-001 RUN 01 26 OCT 81 PAGE 26

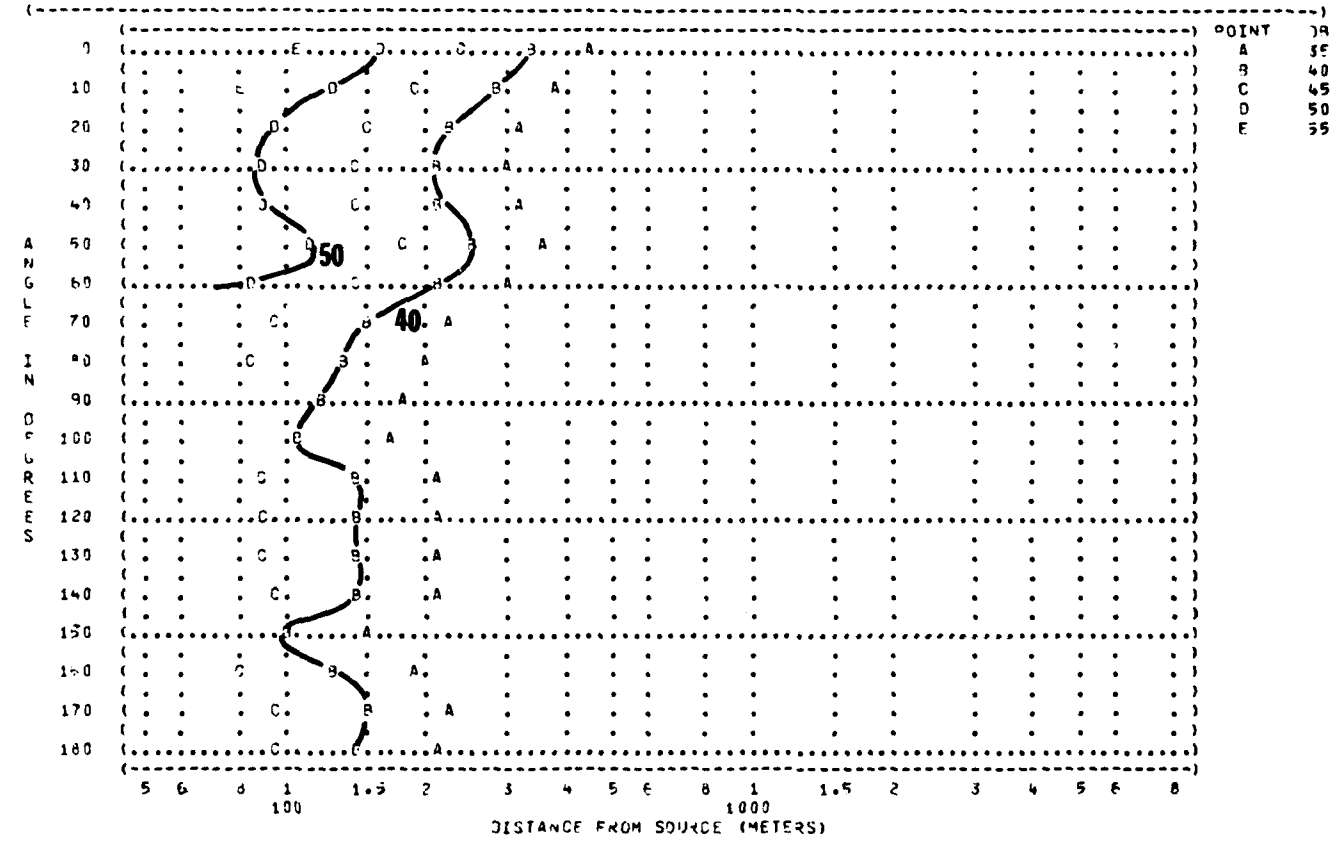


FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASF HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST 8F-706-001 RUN 01 26 OCT 81 PAGE 27

POINT	DB
A	35
B	40
C	45
D	50
E	55

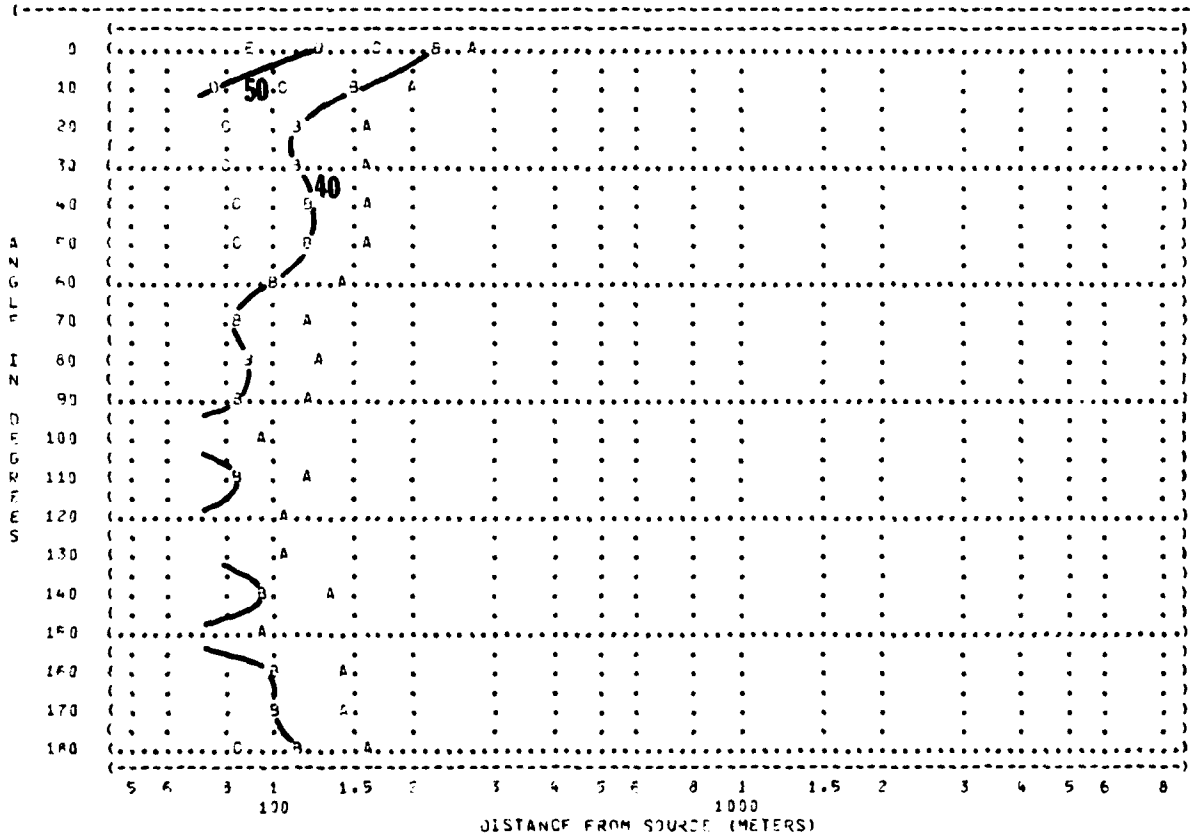


FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST 8F-706-881 RUN 02 26 OCT 81 PAGE 19

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

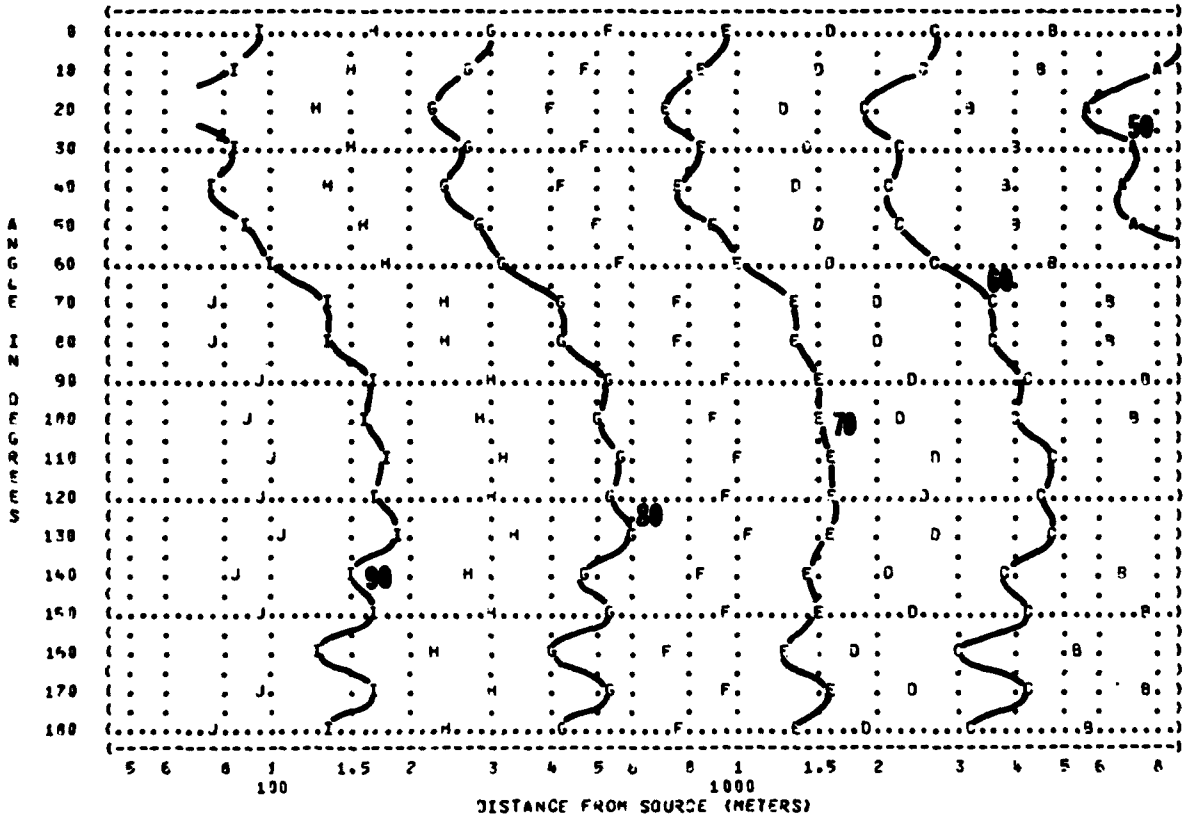


FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST AF-706-001 RUN 02 26 OCT 81 PAGE 19

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRES = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95

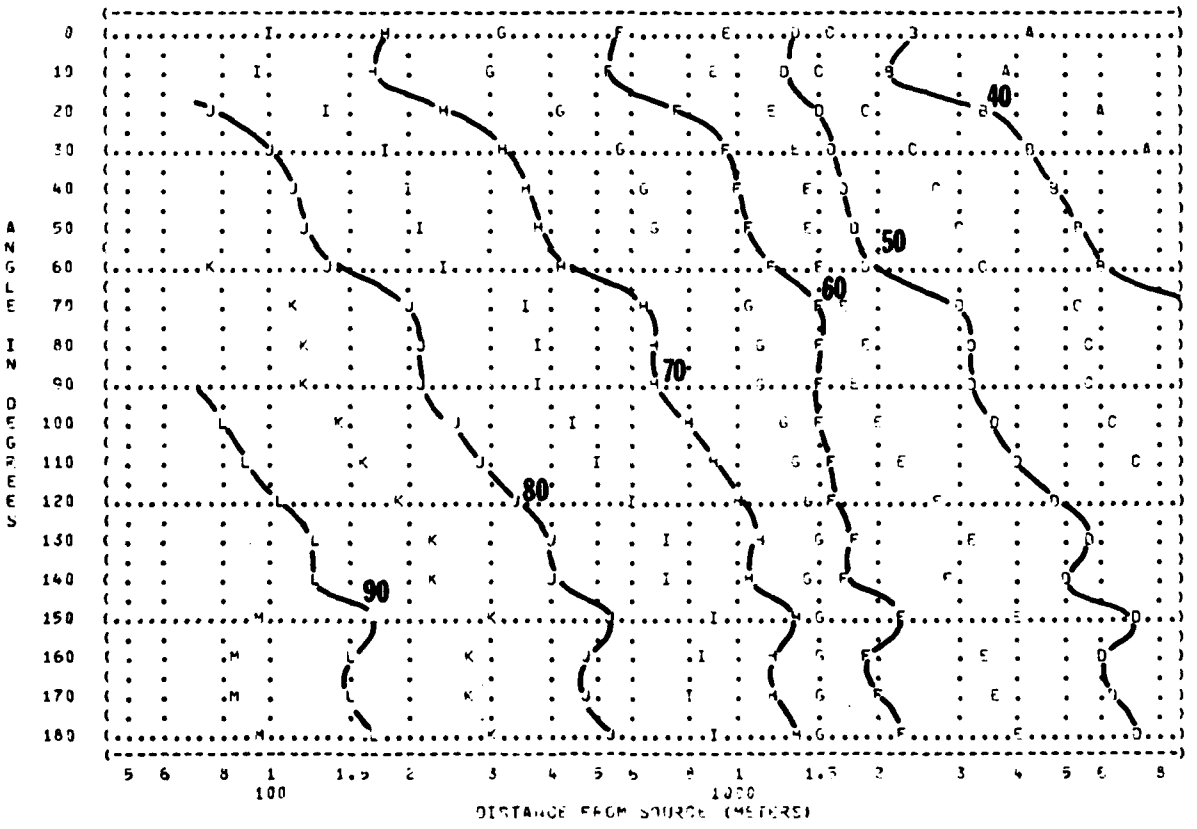


FIGURE 58: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-706-001 RUN 02 26 OCT 71

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POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

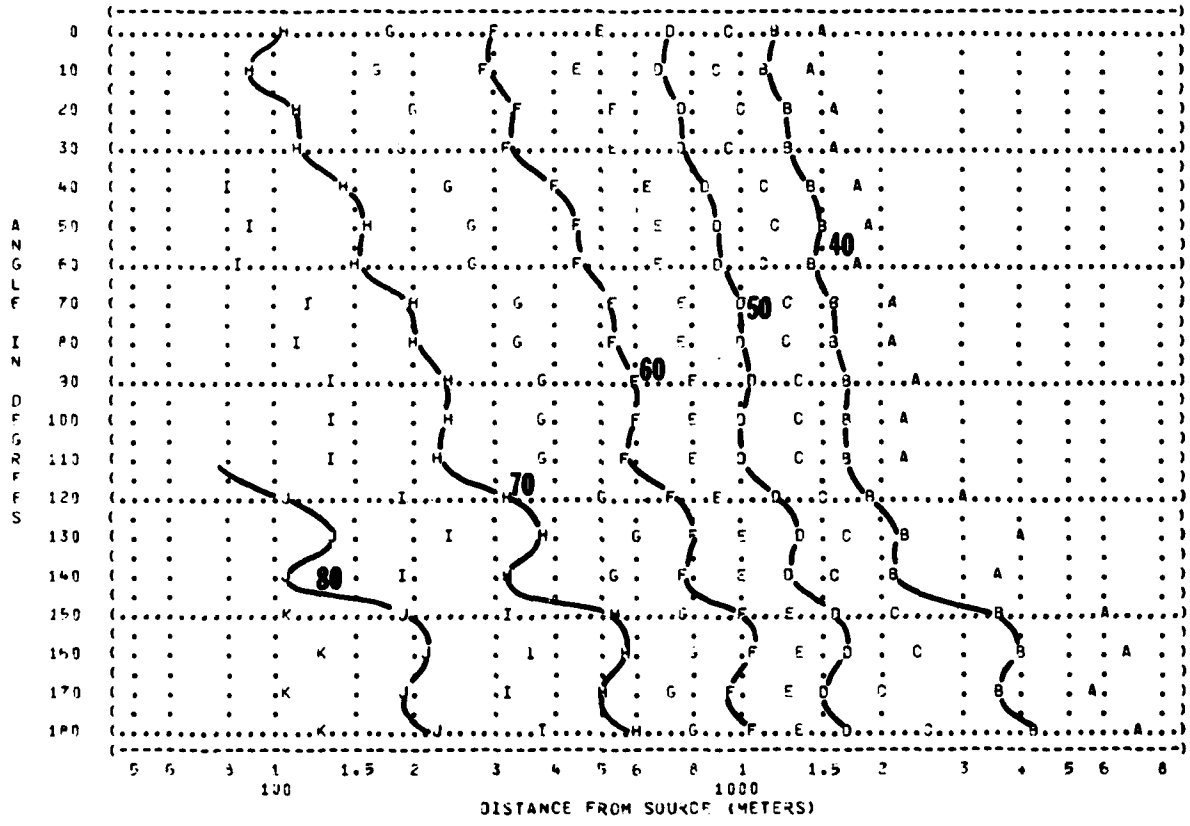

FIGURE: **5.8**

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ANG HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST RF-706-001
RUN 02
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PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

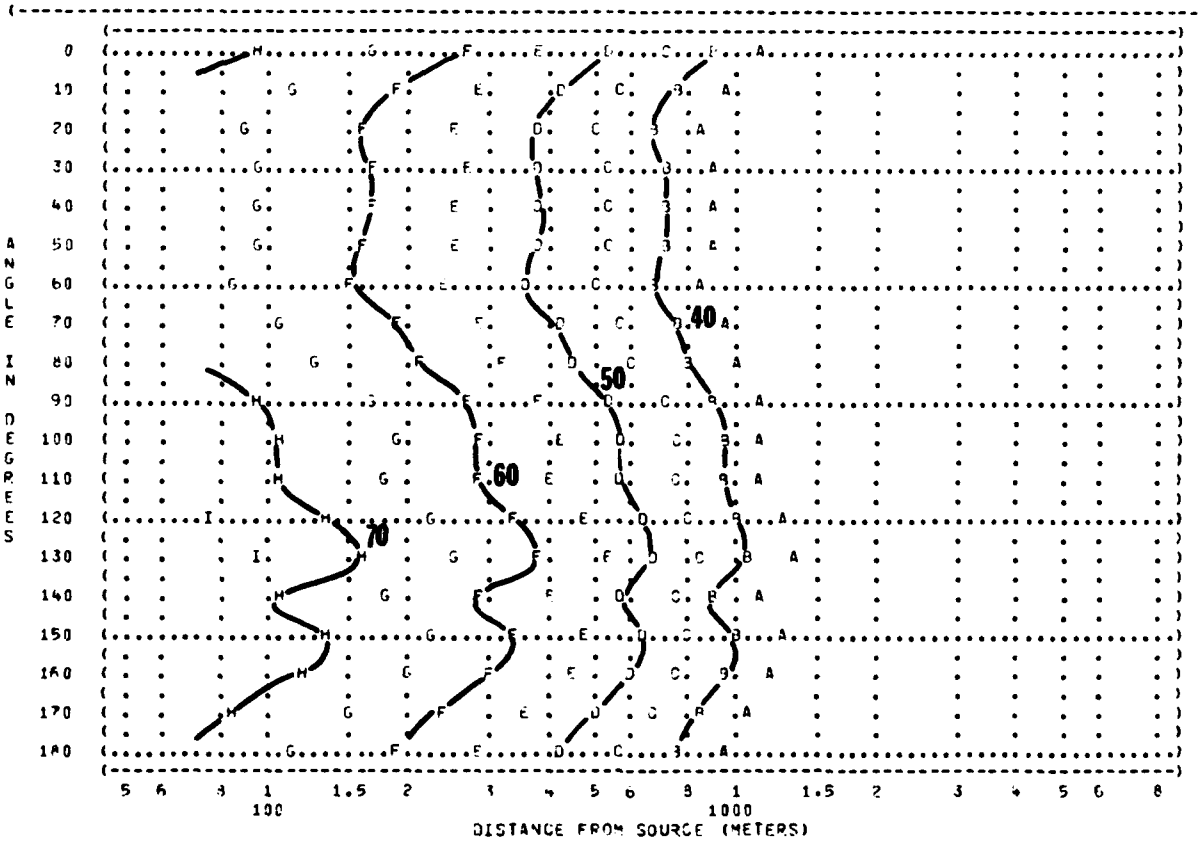


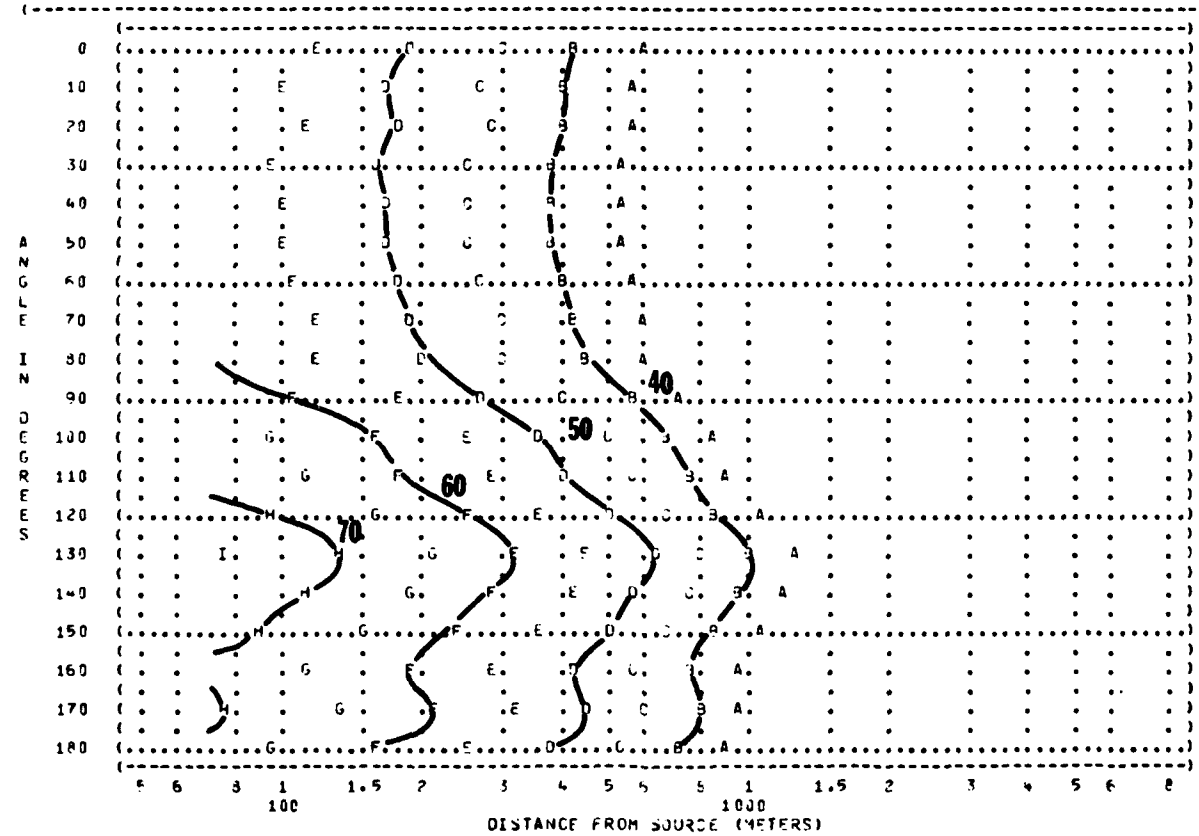
FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST AF-706-001 RUN 02 26 OCT 81 PAGE 22



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

FIGURE: 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-706-001
RUN 02
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POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

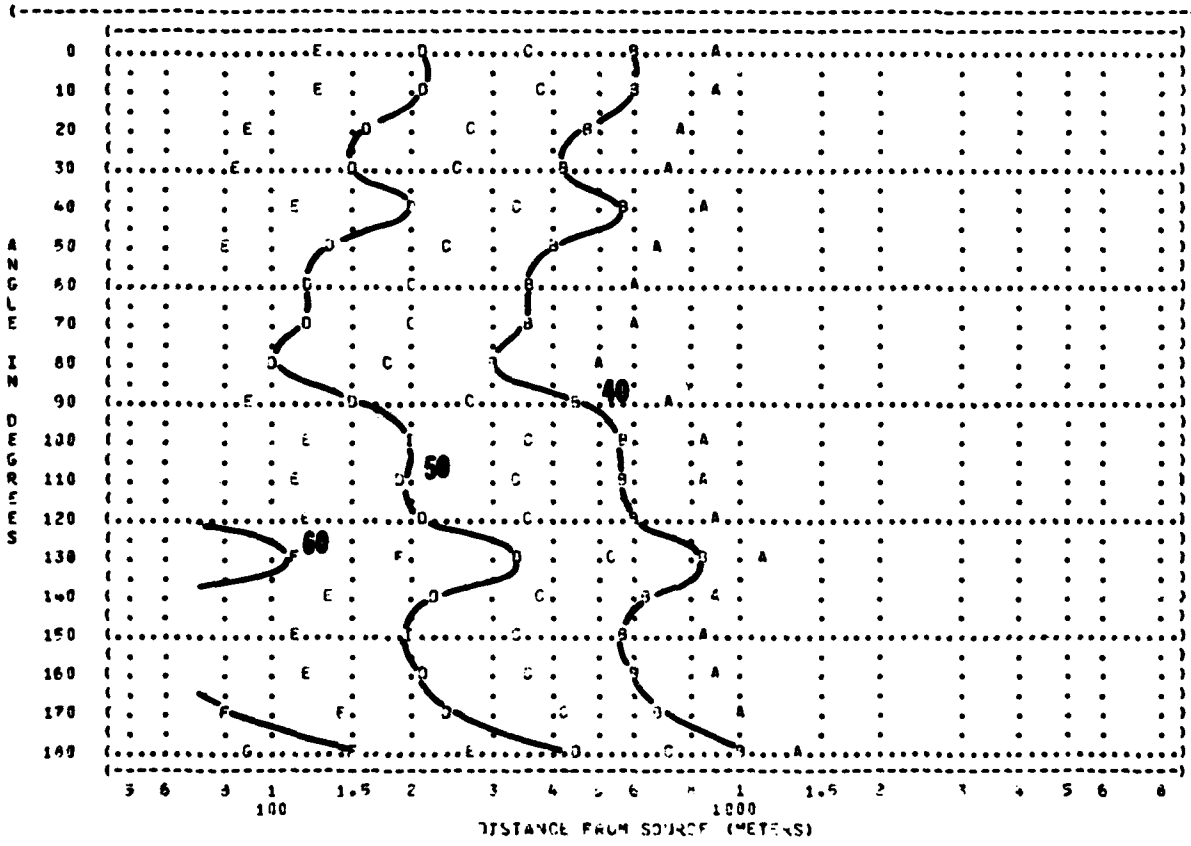

FIGURE 5.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST 8F-706-001 RUN 02 26 OCT 81 PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

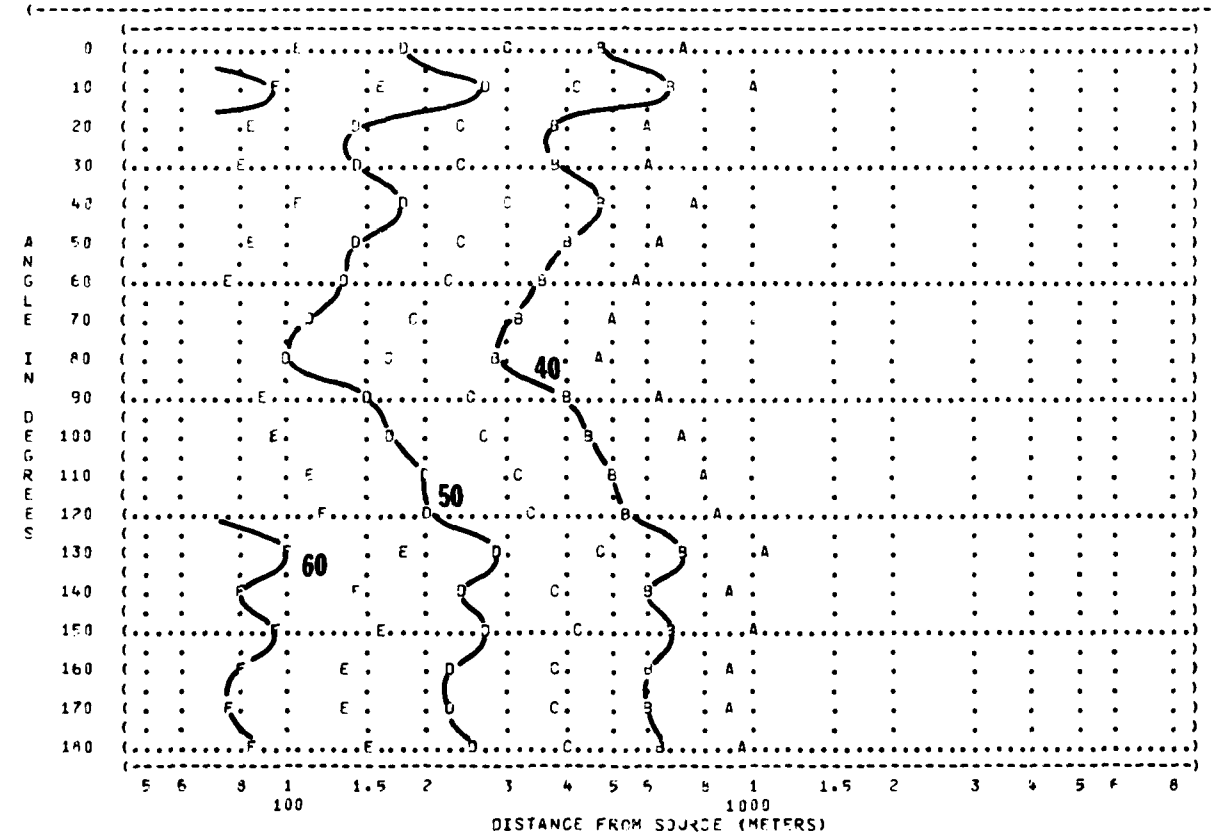

FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (dB) 2000 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST AF-706-001 RUN 02 OCT 91 PAGE 25

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASF HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

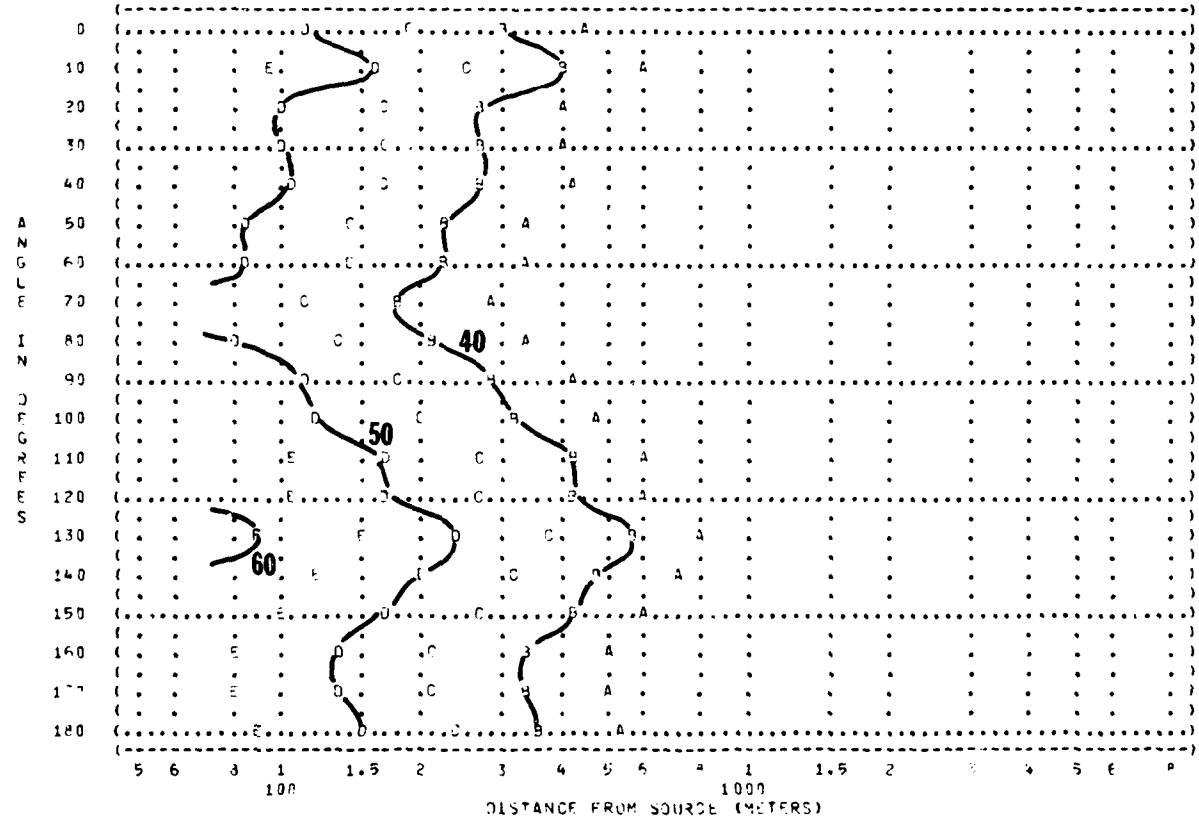

FIGURE: 5.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST AF-705-001
RUN 02
26 OCT 81
PAGE 26

POINT	DB
A	35
B	40
C	45
D	50

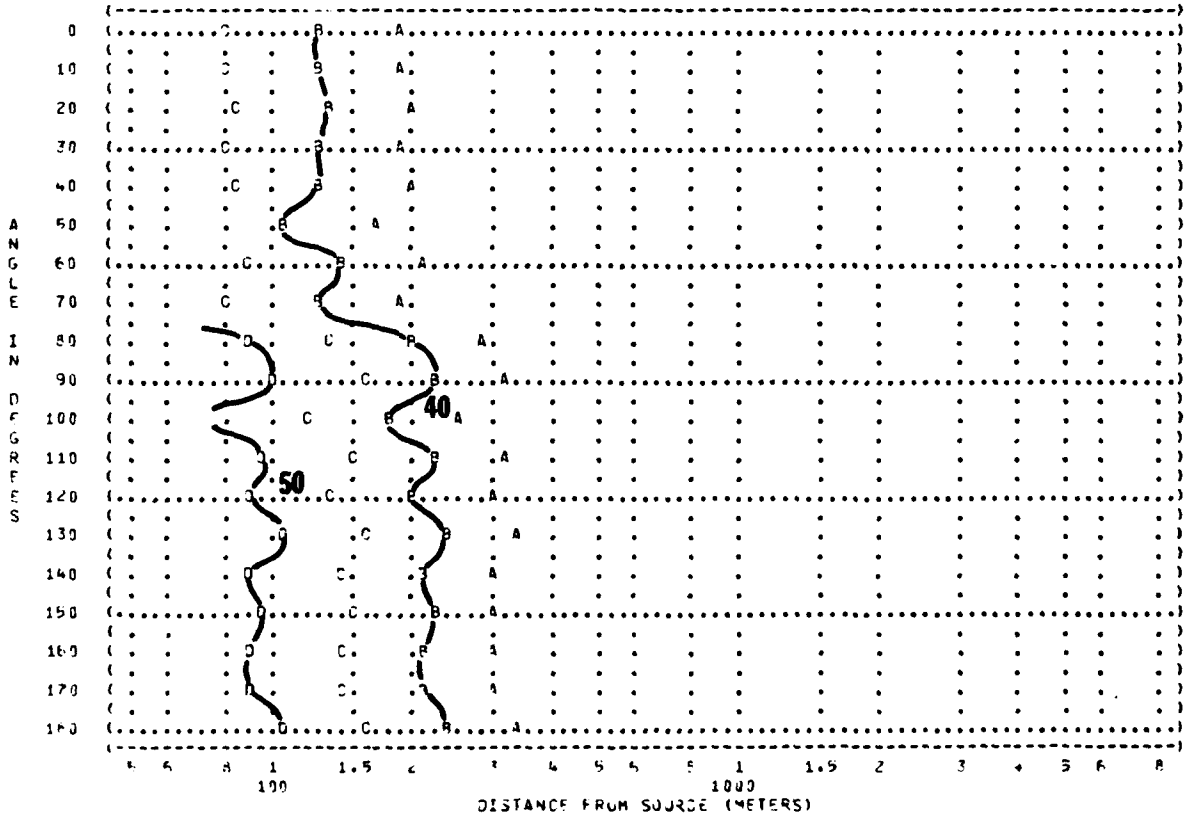

FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST AF-706-001
RUN 02
26 OCT 81
PAGE 27

POINT	DB
A	35
B	40
C	45

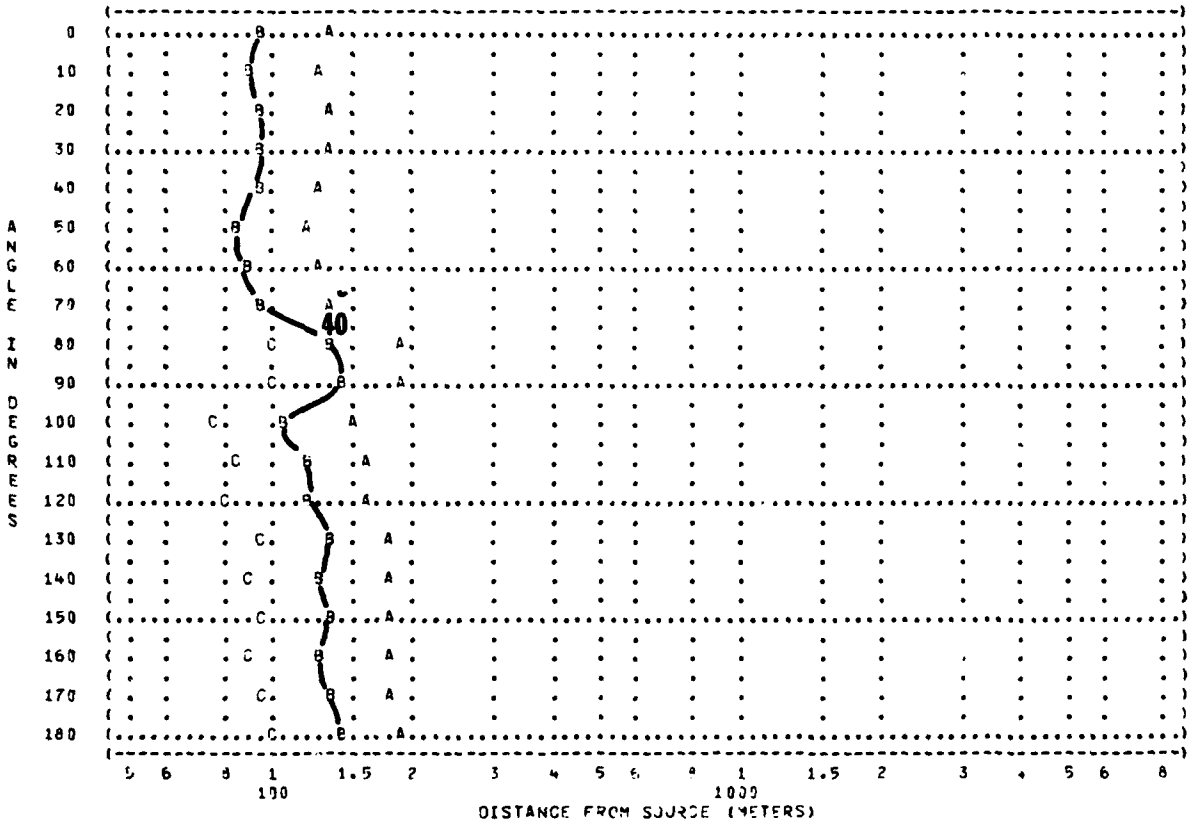

FIGURE: 5.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
16 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-706-001
RUN 03
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASF HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	55
B	60
C	65
D	70
E	75
F	80
G	85
H	90
I	95
J	100
K	105

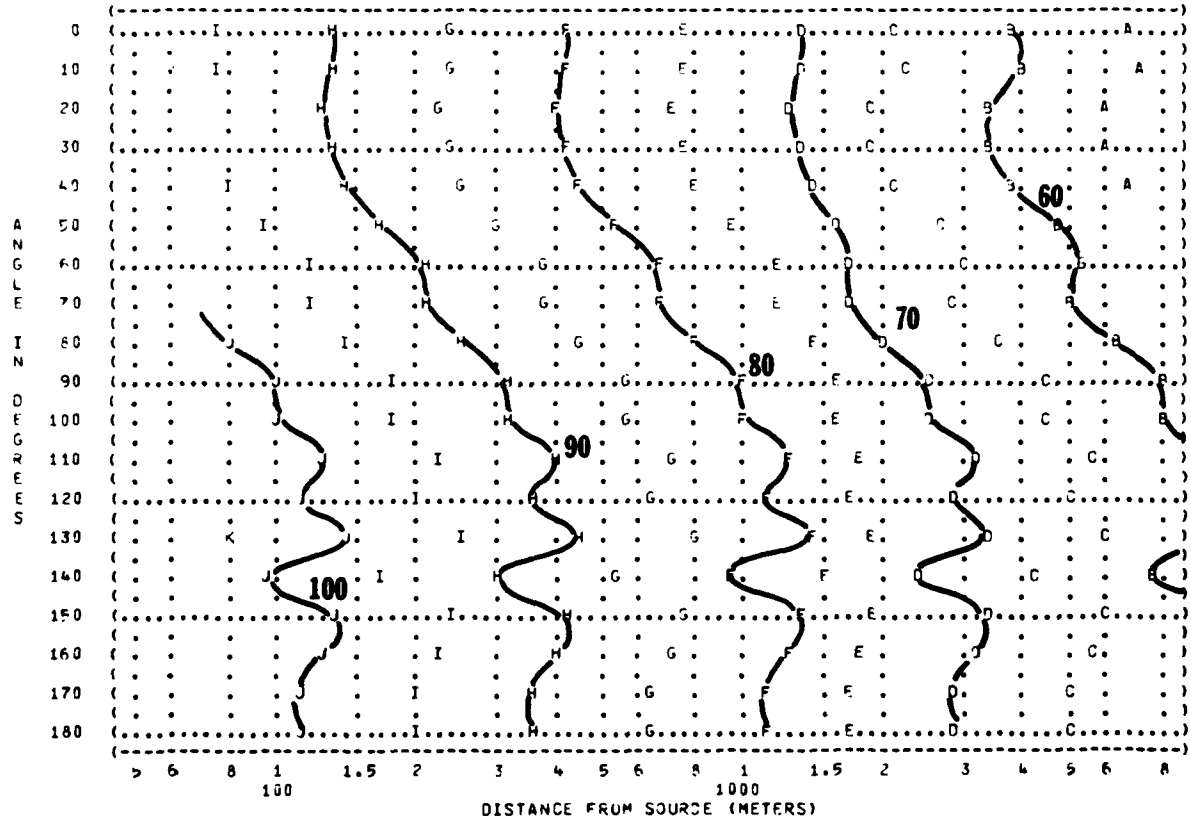


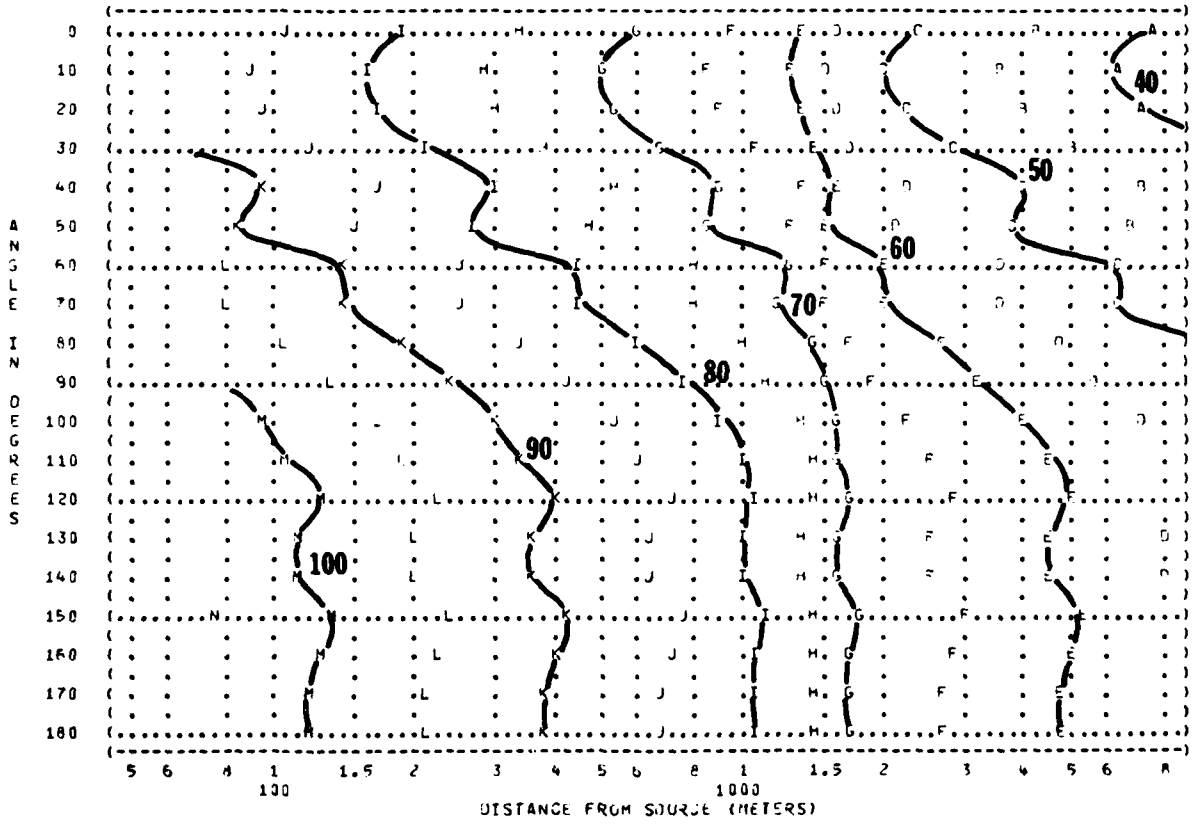
FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-706-001 RUN 03 26 OCT 81 PAGE 19

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %



POINT	DB
A	40
B	45
C	50
D	55
E	60
F	65
G	70
H	75
I	80
J	85
K	90
L	95
M	100
N	105

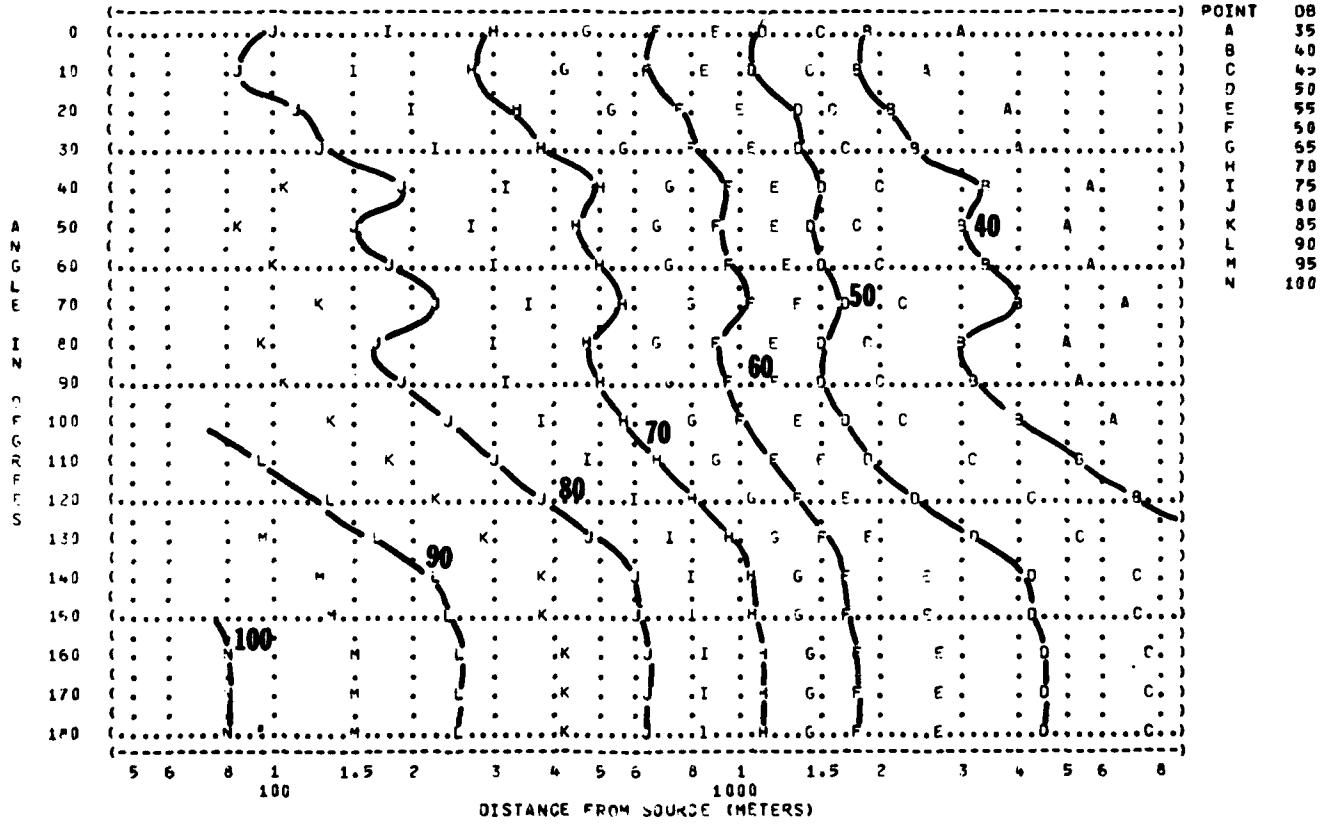
FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (EB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-706-001
RUN 03
26 OCT 81
PAGE 20



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95
N	100

FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST RF-706-001
RUN 03
26 OCT 81
PAGE 21

NOISE SOURCE/SUBJECT:
F-105 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-19 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

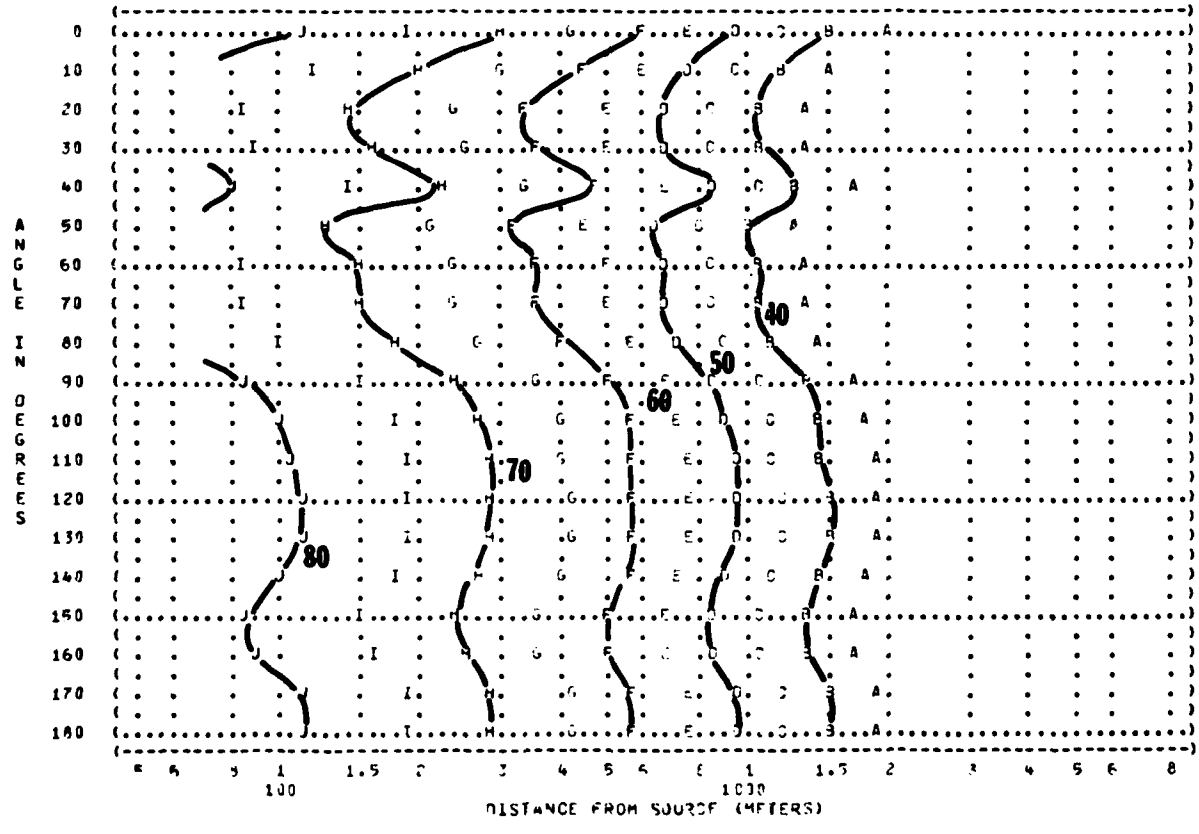


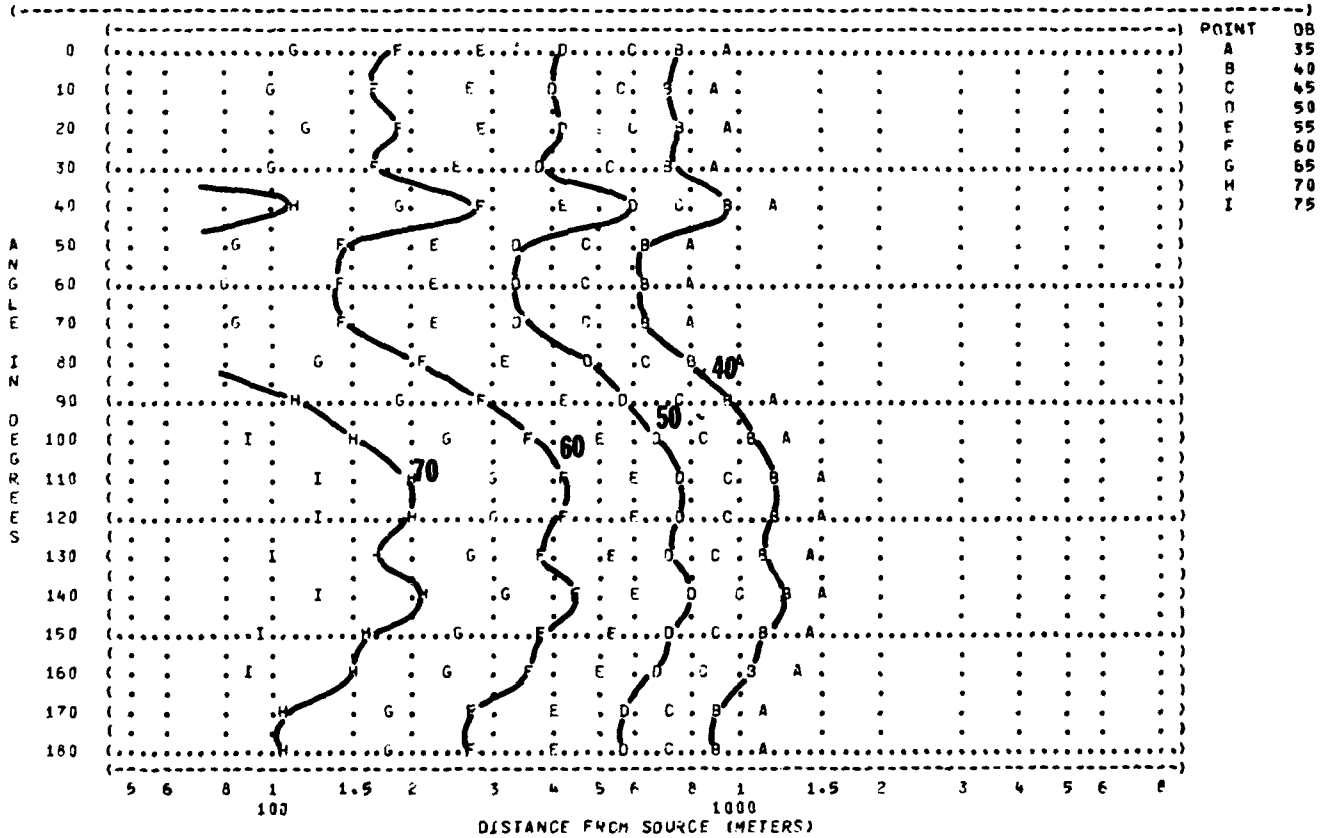
FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-706-001 RUN 03 26 OCT 81 PAGE 22



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 800 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAP FIELD NOISE

OPERATION: AFTERBURNER POWER (113%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M MG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST RF-706-001 RUN 03 25 OCT 81 PAGE 23

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

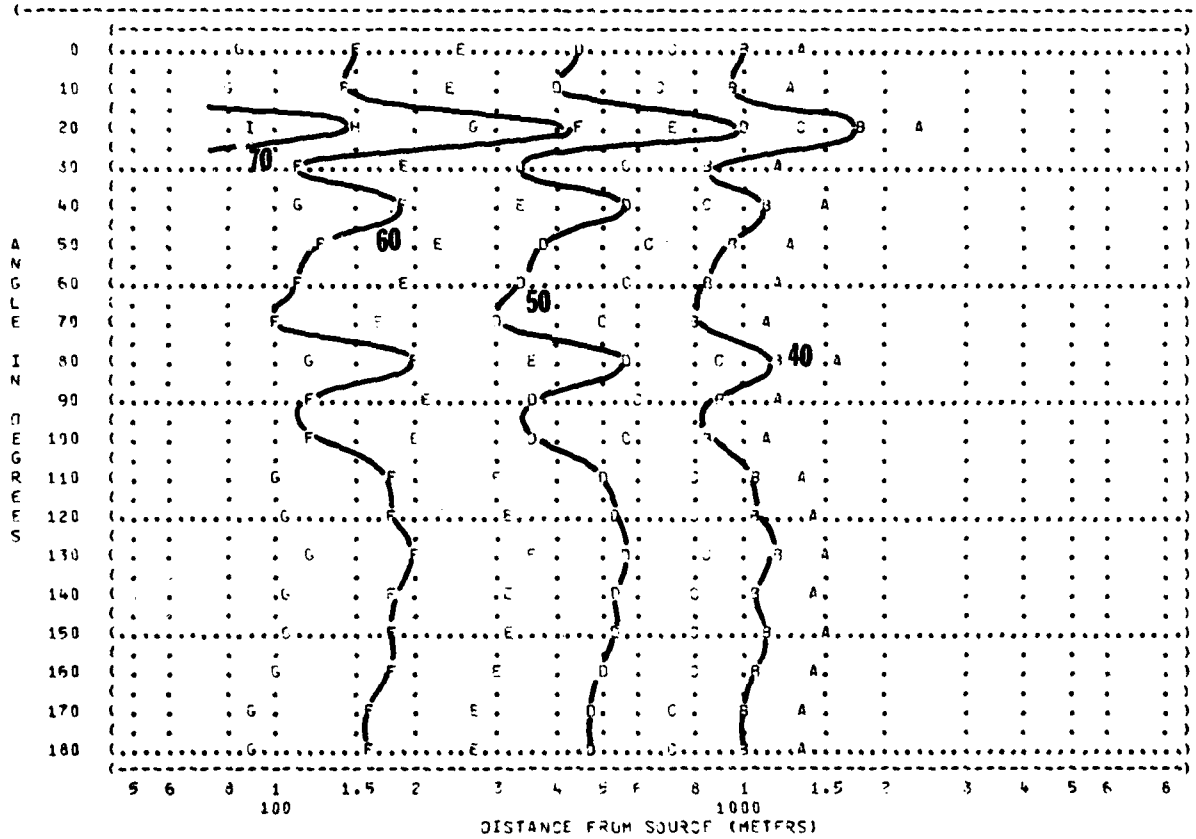


FIGURE: 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-706-001 RUN 03 26 OCT 81 PAGE 24

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

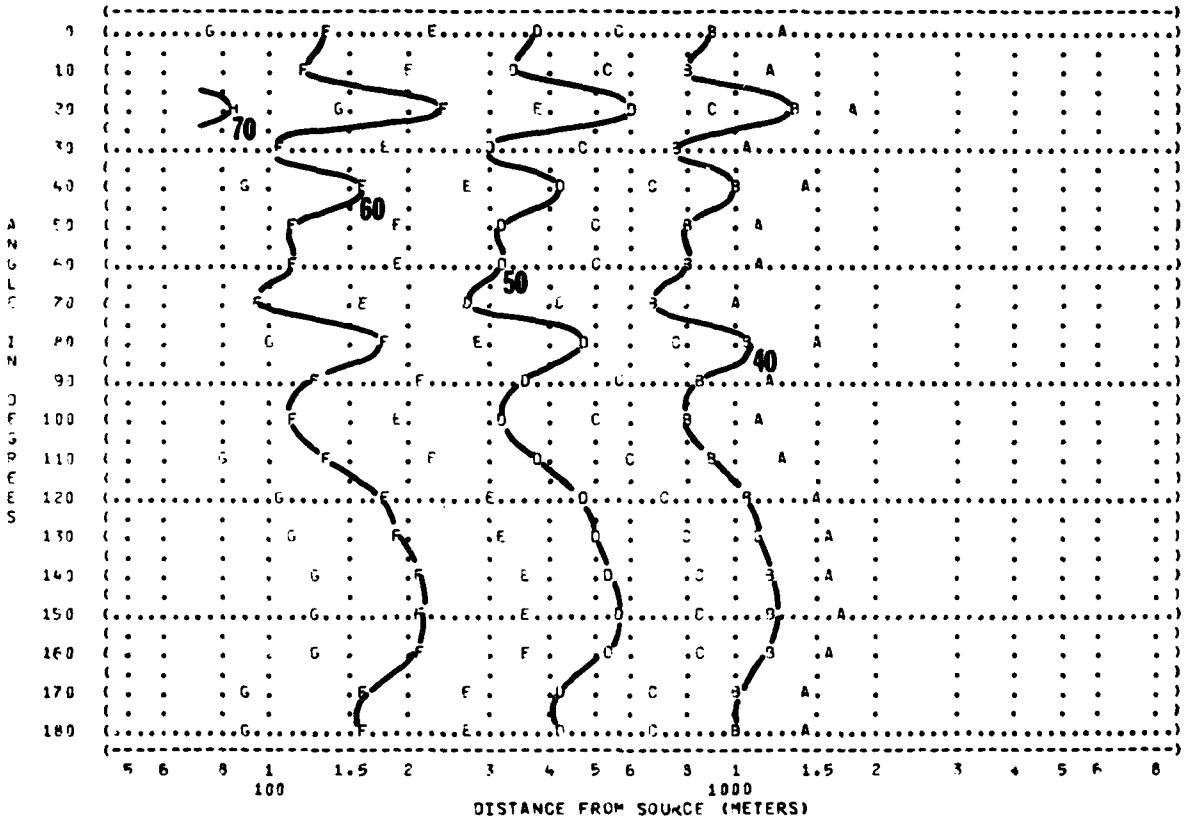


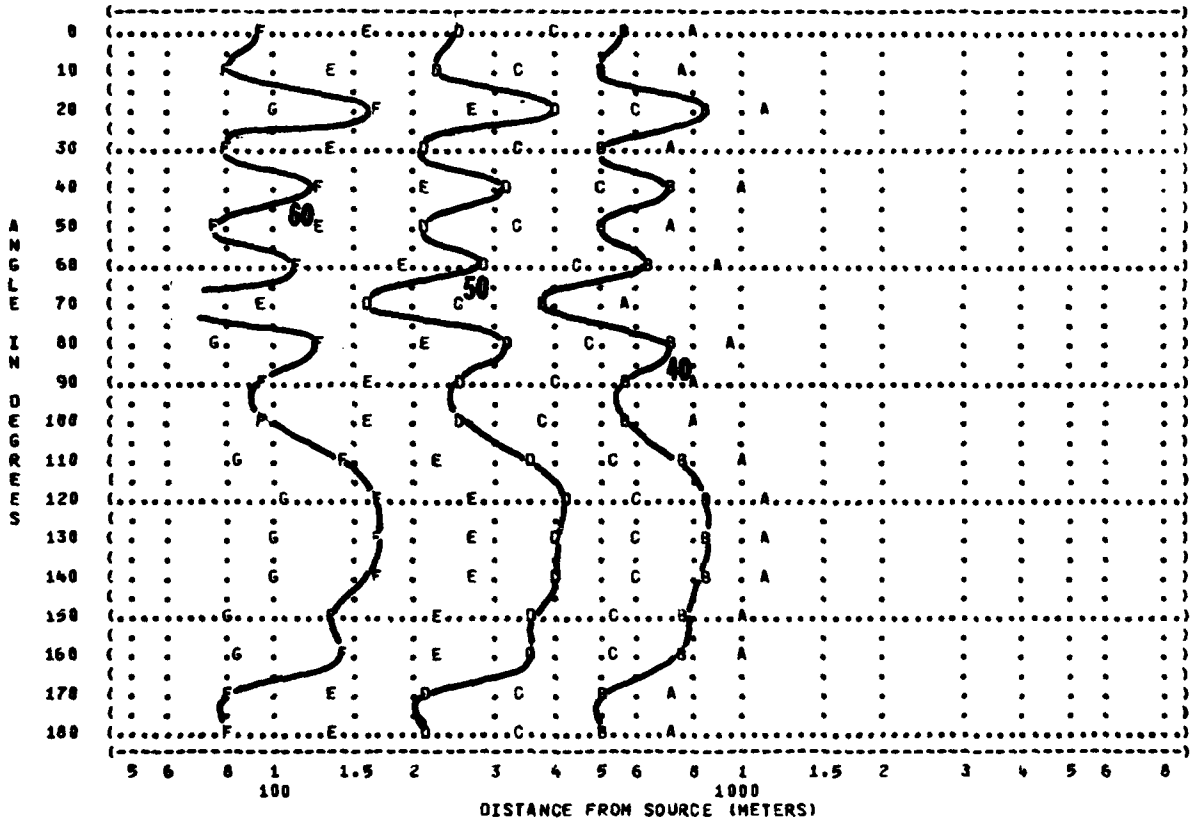
FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (D3) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-706-001 RUN 03 26 OCT 81 PAGE 25



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 / TEST BF-706-001 / RUN 03 / 26 OCT 81 / PAGE 26

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

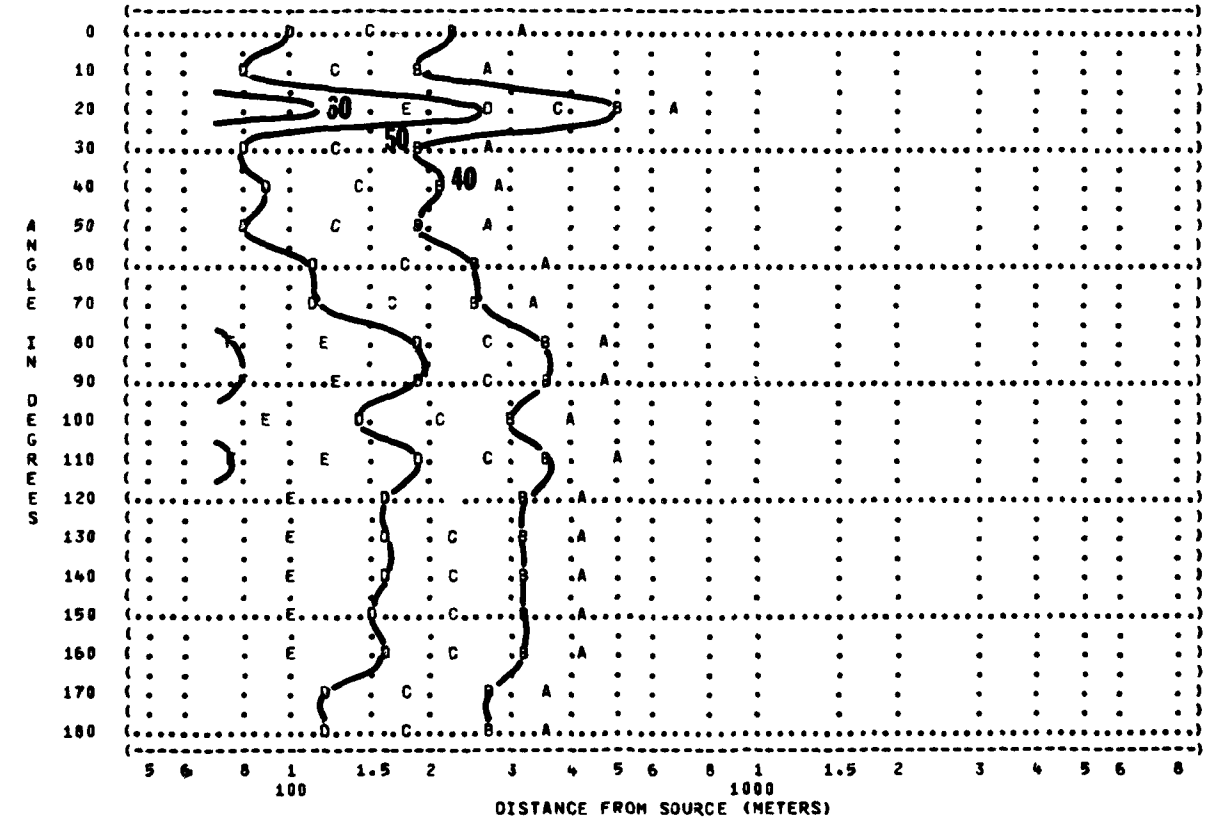


FIGURE 5.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-105 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-19 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-706-001 RUN 03 26 OCT 81 PAGE 27

POINT	DB
A	35
B	40
C	45
D	50
E	55

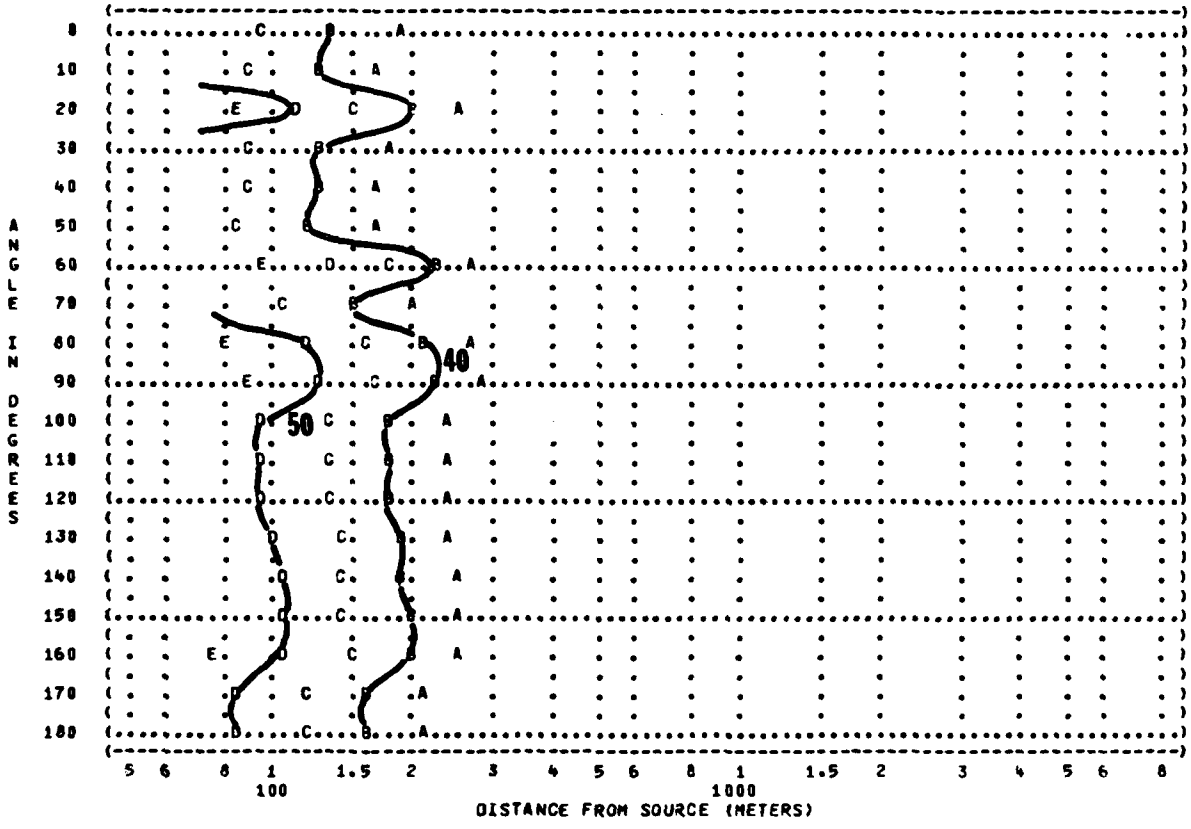


TABLE 6.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS F-106 AIRCRAFT IN THE ASE-TEXAS INC. HUSH-HOUSE, GROUND RUNUP KELLY AFB TEXAS, TEST #BF-707-001

Aircraft Engine Operation	Single Engine
85%	85 % RPM
	3100 LBS/HR FF
	375 EGT
	1.31 EPR
95%	95% RPM
	6000 LBS/HR FF
	483 EGT
	1.65 EPR
Military Power	100 % RPM
	9000 LBS/HR FF
	610 EGT
	1.99 EPR
Afterburner Power	100 % RPM
	9000+ LBS/HR FF
	608 EGT
	1.99 EPR
Meteorology	
Temperature	30 C
Bar Pressure	.744 M Hg
Rel Humidity	59 %
Wind - Speed	Calm
- Direction	

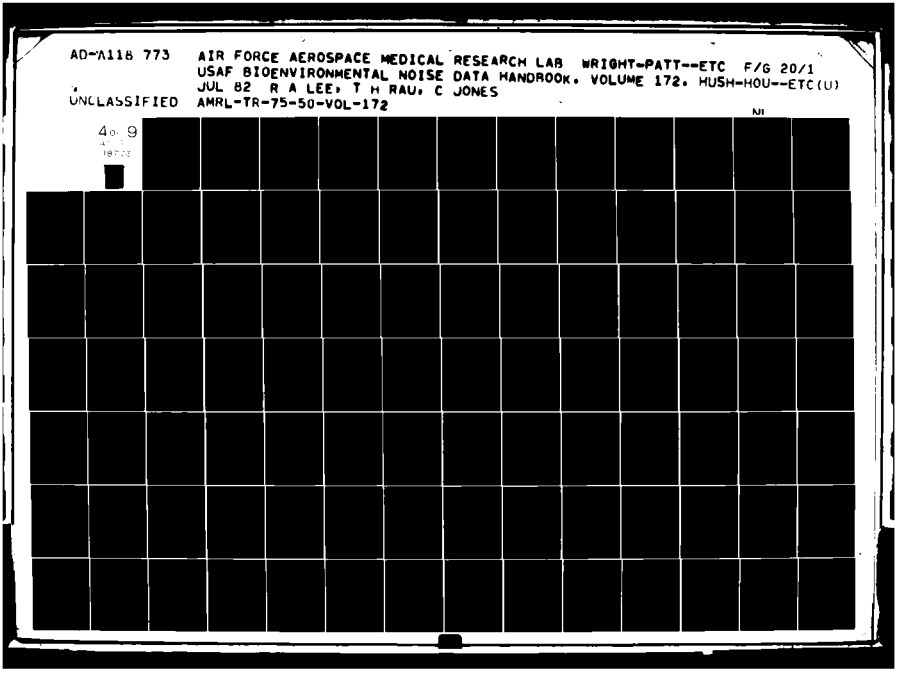

AD-A118 773
AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATT--ETC F/G 20/1
USAF BIOENVIRONMENTAL NOISE DATA HANDBOOK, VOLUME 172. HUSH-HOU--ETC(U)
JUL 82 R A LEE, T H RAU, C JONES
UNCLASSIFIED
AMRL-TR-75-50-VOL-172
NL
4 of 9

TABLE: 6.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 01
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 30 C
BAR PRESS = .744 M HG
REL HUMID = 54 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	73<	73<		73<	72<	72<		72<		75<	74<		72<	73<		72<	72<	72<	
16	69<	69<	70<	72<	69<	69<	69<	72<	72<	75<	75<	74<	73<	76<	75<	75<	73<	75<	73<
20									71<	74<	76<	75<	77<	74<	73<	71<	75<	77<	74<
25										69<	72<	71<	72<	72<	69<	72<	73<	75<	72<
31.5													67<	67<		70<	70<	69<	70<
40																	68<		67<
50								62<					69<				65<	63<	65<
63							71<	71<					66<						
80																	71<	70<	
100														70<		67<	68<		
125													63<	65<				65<	
160																		64<	
200																63<	68<	64<	58<
250													55<	54<	55<	60<	58<	61<	55<
315													53<	50<	60<	63	63	62	60<
400									45<				55	49<	51<	55	54<	57	54<
500	46<	47<	46<	43<	45<	43<		46<	47<		48<	44<	51<	49<	50<	54	52	53	50<
630	44<	45<	48<	42<				43<	50<		50<	50<	50<	50<	49<	53<	52<	51<	47<
800	43<	44<	46<	42<	42<	43<		42<	50<		45<	46<	47<	50<	46<	52	51<	50<	47<
1000	44<	45<	47<	42<	54	44<	43<	50<	46<	44<	53	51	47<	50<	44<	52	52	49<	47<
1250	48<	45<	46<	44<	47<	42<	39<	44<	44<	39<	49<	47<	48<	48<	43<	50	50	49	47<
1600	53	51	50	47	47	43<	41<	44<	45<	41<	52	47	48	48	43<	53	52	51	48
2000	51	52	51	48	47	44<	42<	44<	42<	41<	51	47	47	47	41<	50	48	50	45
2500	39<	44	44	40<	44	38<	37<	40<	44	37<	49	46	44	44	40<	48	47	47	44
3150	36<	43	39<	36<	40<	36<	35<	38<	46	36<	45	45	42	42	37<	47	47	46	43
4000	33<	35<	33<	32<	32<	34<	31<	35<	45	31<	35<	35<	39	36<	34<	43	42	42	39
5000	36<	36<	33<	31<	30<	31<	29<	32<	39	30<	30<	32<	37<	33<	33<	43	41	42	48
6300	35<	35<	33<	31<	31<	30<	29<	30<	33<	30<	27<	28<	34<	30<	30<	40	38	38	35<
8000	33<	34<	33<	30<	33<	31<	35<	30<	31<	29<		30<	33<	28<	29<	39	37<	41	34<
10000	31<	31<	30<	29<	32<	30<	28<	27<	30<	29<		30<	30<			35<	31<	33<	30<
OVERALL	75	74	78	76	74	74	73	77	75	80	80	78	81	81	78	80	81	82	79

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 62

MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-787-001
RUN 02
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 30 C
BAR PRESS = .744 M HG
REL HUMID = 59 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	81<	80<	77<	77<	77<	80<	78<	80<	81<	83	84	82<	83	84	79<	88<	80<	81<	78<
16	77<	80	77<	77<	78<	78<	80	81	82	83	86	83	83	84	83	85	85	82	83
20	74<	75<	74<	77<	76<	78<	80<	81	81	83	84	85	84	84	81	84	83	85	86
25			69<	71<	72<	69<	73<	74<	75<	78<	80	81	81	80	81	83	82	82	82
31.5					67<	68<	67<	67<	70<	72<	76<	77<	77<	79	78	79	80	80	81
40								68<		67<	72<	70<	74<	75<	75<	78	79	76<	81
50	62<				62<	66<	63<	67<	66<	66<	69<	67<	68<	71<	70<	74	76	73	78
63						64<	64<	67<	66<	68<	66<	66<	70<	69<		64<	67<	66<	78<
80																			
100										67<	70<	71<	70<	70<					
125										65<	67<	67<	68<	66<					
160																			
200										60<			57<	59<					
250	55<									58<		54<	57<	56<	58<	57<			
315	50<									53<	52<	51<	49<	51<	51<	53<	53<		
400	48<		50<	50<	47<	54<	47<	48<	54<	51<	50<	47<	46<	47<		51<	52<		46<
500	50<	48<	51<	56	53	59	50<	56	55	49<	50<	46<	44<	46<	54	51<	54	46<	48<
630	48<	47<	51<	50<	52<	53<	51<	52<	54	48<	49<	44<	44<	46<	56	51<	55	46<	48<
800	46<	44<	49<	52	51<	54	51<	51<	55	47<	49<	45<	48<	47<	45<	51<	54	47<	46<
1000	48<	47<	54	59	56	57	53	58	59	46<	47<	46<	49<	48<	49<	51	53	47<	46<
1250	52	48<	51	56	52	54	51	54	56	45<	47<	47<	50	47<	50	51	52	45<	43<
1600	54	52	53	55	55	56	51	54	60	45<	46<	48	49	47	50	49	48	42<	42<
2000	50	50	50	54	52	55	48	52	59	44<	45	47	48	48	44<	45	45	40<	41<
2500	42	41<	48	51	51	52	45	49	56	41<	43	43	46	44	42	42	41<	39<	39<
3150	39<	36<	44	49	47	48	41	47	54	41<	45	42	44	45	40<	40<	40<	40<	40<
4000	34<	33<	36<	40	39	39	35<	39	44	38<	42	38<	40	40	36<	39	39	39	39
5000	36<	32<	35<	35<	39	35<	34<	36<	40	37<	38	36<	37<	37<	36<	37<	38	38	39
6300	36<	34<	35<	34<	36	32<	31<	33<	35<	35<	34<	34<	34<	34<	34<	35<	37	36	38
8000	36<	38	33<	33<	32<	30<	31<	34<	34<	35<	33<	34<	33<	33<	32<	34<	38<	40	37<
10000	31<	29<	31<	31<	42		28<	33<	32<	31<	30<	32<	30<	29<	28<	30<	34<	34<	35<
OVERALL	83	84	81	82	83	84	84	86	87	89	90	90	90	90	88	90	90	90	91

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 6.2

MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 03
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 30 C
BAR PRESS = .744 M HG
REL HUMID = 59 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	84	83	82<	82<	84	82<	83	76<	86	88	88	90	88	87	85	87	84	84	74<
16	83	81	82	84	84	81	83	82	87	88	91	89	89	88	89	90	88	88	82
20	79<	77<	80<	79<	81	83	86	84	87	89	89	89	88	89	87	89	89	89	77<
25	69<		72<	75<	79	77<	80	80	81	85	86	86	86	88	87	88	89	89	79
31.5				69<	73<	71<	72<	73<	75<	79	82	82	84	86	84	87	89	89	78
40		68<		72<	74<	69<	72<	71<	71<	75<	77<	79	82	80	83	85	87	87	78
50	64<	64<	66<	66<	65<	67<	68<	69<	70<	73<	72<	73<	76	76	77	82	82	82	74
63								67<	66<	70<	71<	72<	73<	70<	70<	72<	75	75	64<
80																			
100			67<							71<	71<	73<	73<	72<	67<	67<			
125	64<		62<	62<			62<		64<	68<	69<	69<	69<	69<	66<	64<	65<	65<	
160												64<	65<	64<	65<				
200		57<								59<	56<	62<	65<	68	66<	60<	57<	57<	
250	56<	58<	56<		55<					56<	60<	62<	66	68	68	64<	59<	59<	
315	52<	56<	51<			50<	50<	50<	50<	52<	53<	56<	57<	59<	59<	55<	55<	55<	52<
400	53<	55	48<	46<	48<	49<	49<	49<	48<	48<	51<	51<	53<	56	50<	51<	55	55	57
500	56	57	52	51<	53	52	48<	48<	48<	46<	48<	50<	53	54	48<	54	57	57	58
630	55	59	50<	50<	51<	54	48<	48<	48<	47<	49<	49<	52<	53<	50<	55	56	56	58
800	53	59	48<	48<	48<	52	50<	50<	49<	48<	47<	49<	53	52	50<	54	54	54	53
1000	54	56	49<	49<	50<	51	45<	45<	45<	47<	49<	49<	52	51	51	55	54	54	46<
1250	57	55	52	52	52	52	47<	47<	47<	49<	48<	51	52	52	53	57	56	56	54
1600	59	56	55	53	53	53	51	51	51	49	47	51	52	53	54	55	52	52	54
2000	52	53	50	49	48	47	46	46	46	46	46	50	51	52	49	50	48	48	51
2500	45	48	44	43	44	45	42	42	41<	43	44	47	49	47	45	47	46	46	93
3150	44	46	35<	34<	37<	43	42	42	42	43	43	45	45	44	44	47	46	46	51
4000	41	37<	34<	34<	39	41	40	40	40	42	41	43	41	42	43	44	44	44	44
5000	41	37<	36<	34<	41	40	41	41	41	43	41	42	40	42	43	44	44	44	41
6300	42	36<	35<	34<	35<	36<	34<	35<	39	41	39	39	39	41	41	42	42	42	42
8000	39	35<	35<	40	39	34<	39	37<	39	41	38	38	39<	40	40	41	41	41	39
10000	37<	32<	32<	32<	34<	31<	32<	33<	35<	38	35<	35<	34<	36<	37<	37<	37<	37<	41
OVERALL	87	86	86	87	89	87	90	88	92	94	95	95	94	95	94	96	96	96	87

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 6.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-787-081
RUN 04
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 30 C
BAR PRESS = .744 M HG
REL HUMID = 59 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	92	90	88	90	87	89	88	91	90	92	96	94	95	95	94	95	93	94	91
16	89	89	88	91	87	92	88	89	97	95	97	97	97	97	95	97	96	93	95
20	88	86	87	89	90	92	91	95	94	98	98	98	99	98	97	98	97	98	99
25	78<	79	82	84	84	87	79	91	89	94	97	97	97	97	95	98	97	95	97
31.5	77<	72<	73<	78	81	85	76<	87	88	91	94	93	95	95	93	98	99	94	99
40	76<	77<	76<	79	82	82	80	84	83	86	98	92	93	94	95	97	97	94	100
50	75	72<	76	75	80	82	72<	83	81	80	82	87	88	91	93	94	94	91	98
63	72<	71<	70<	73<	74<	75	70<	77	76	79	79	80	81	82	86	88	90	87	92
80	72<				70<			73<	74<	77<	80<	80<	79<	78<	76<	79<	81	79<	83
100	73<	70<	71<	69<	69<	67<		67<	70<	76<	78	80	78	76<	76<	77	78	74<	78
125	72<	71<	68<	68<	66<	66<		69<	69<	73<	74	77	76	76	75	73<	74	71<	72<
160	68<	64<	63<	64<		64<			63<	70<	72<	75	74<	73<	72<	69<	70<	66<	66<
200	64<	60<	60<	60<	61<	61<	61<	59<	60<	66<	69	71	72	72	71	67<	69	65<	65<
250	65<	62<	61<	59<	59<	60<	61<	57<	58<	64<	68	72	74	72	72	71	67	61<	65<
315	59<	61	55<	54<	53<	52<	58<	50<	52<	58<	61	66	65	64	66	64	64	59<	61
400	59	65	56	53<	53<	51<	49<	48<	49<	54<	57	60	59	60	58	59	62	59	61
500	63	66	58	58	59	58	56	56	53	55	55	57	57	59	57	59	61	59	59
630	63	67	58	59	60	62	59	59	57	56	55	56	57	59	60	59	60	61	57
800	61	67	57	57	58	60	51<	57	56	57	57	57	59	58	60	59	59	60	57
1000	61	63	58	57	59	59	56	56	55	56	57	58	60	58	61	61	61	58	56
1250	64	63	61	60	62	61	57	57	55	57	57	59	61	60	63	64	64	59	56
1600	67	65	62	62	62	63	56	56	58	56	56	59	61	61	64	62	61	57	53
2000	59	62	56	57	56	55	51	51	53	53	53	58	59	60	58	56	56	53	50
2500	49	53	51	51	51	50	44	44	48	51	50	53	56	53	61	52	58	51	47
3150	42	51	47	41	44	45	43	43	50	51	48	51	51	50	58	58	51	53	46
4000	41	46	45	40	42	42	42	42	49	49	46	48	46	47	53	48	55	51	46
5000	45	45	45	41	43	42	42	42	48	49	46	46	46	46	50	47	46	48	45
6300	45	44	45	40	41	41	41	39	46	48	44	45	44	45	57	45	43	46	43
8000	44	42	42	42	42	41	42	41	46	46	44	44	44	45	58	44	44	43	43
10000	42	40	39	37<	39	38	35<	37<	43	45	41	41	42	42	50	42	42	42	42
OVERALL	95	94	93	95	94	97	94	98	100	102	104	104	104	104	103	106	105	103	106

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

FIGURE: NORMALIZED FARFIELD NOISE LEVELS

61

DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST 9F-707-001
RUN 01
26 OCT 81
PAGE 6

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

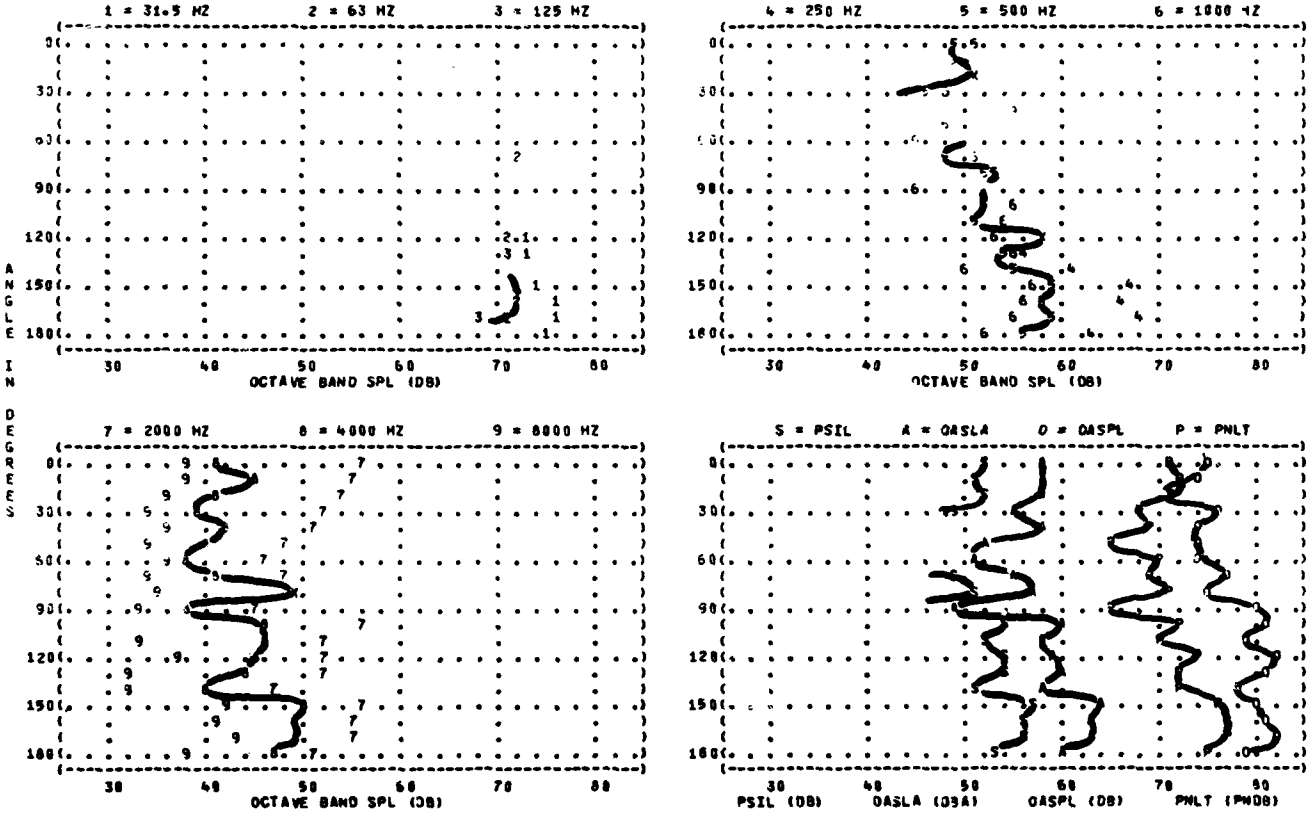


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

6.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .768 M HG
REL HUMID = 70 %

IDENTIFICATIONS:
OMEGA 1.4
TEST BF-787-881
RUN 02
26 OCT 81
PAGE 6

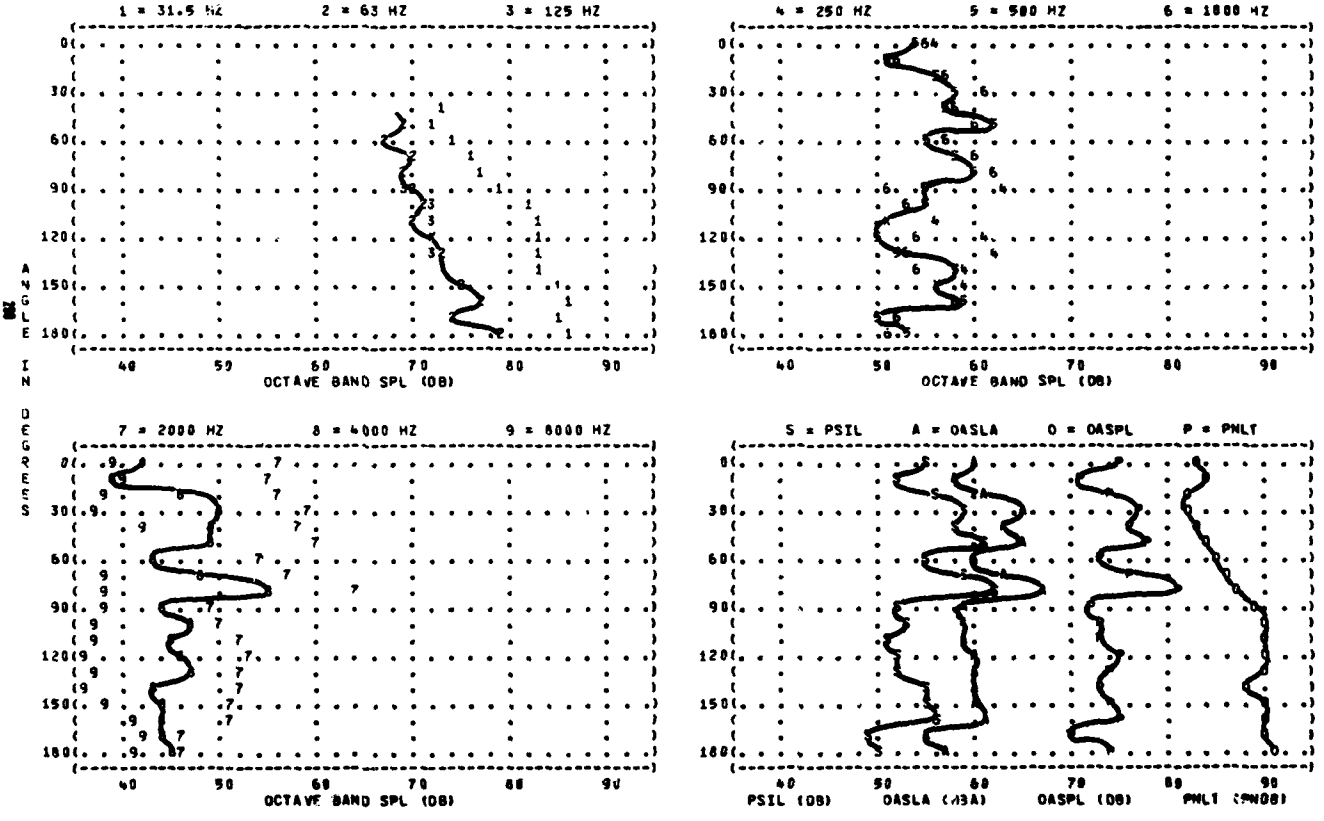


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

6.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-801
RUN 03

26 OCT 81

PAGE 6

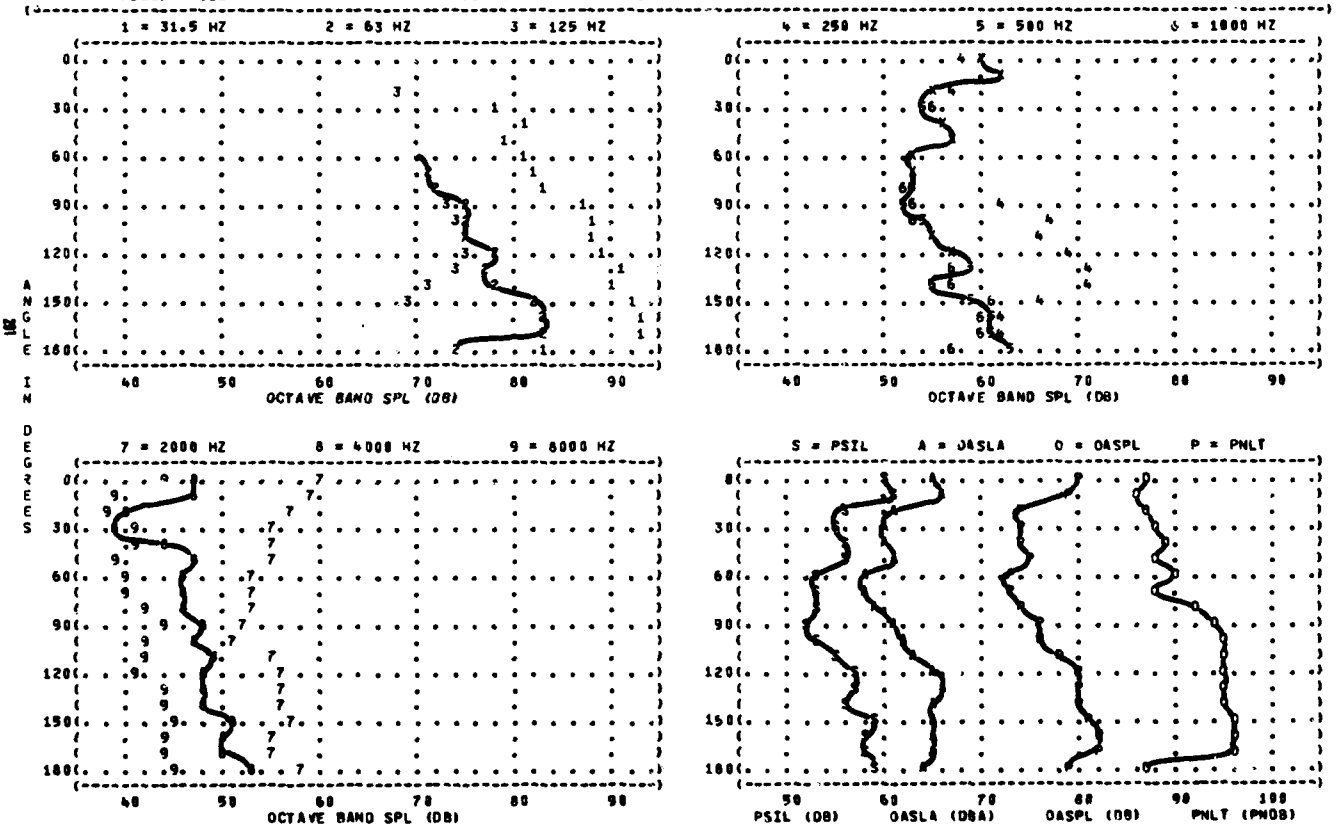


FIGURE 61 NORMALIZED FARFIELD NOISE LEVELS

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:
F-106 AIRCRAFT IN THE	AFTERBURNER POWER (100%)	TEMP = 15 C
TEXAS ASE HUSH HOUSE	SINGLE ENGINE	BAR PRESS = .760 M HG
J75-P-17 ENGINE	GROUND RUNUP IN THE	REL HUMID = 70 %
FAR FIELD NOISE	TEXAS ASE HUSH HOUSE	

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 04
26 OCT 81
PAGE 6

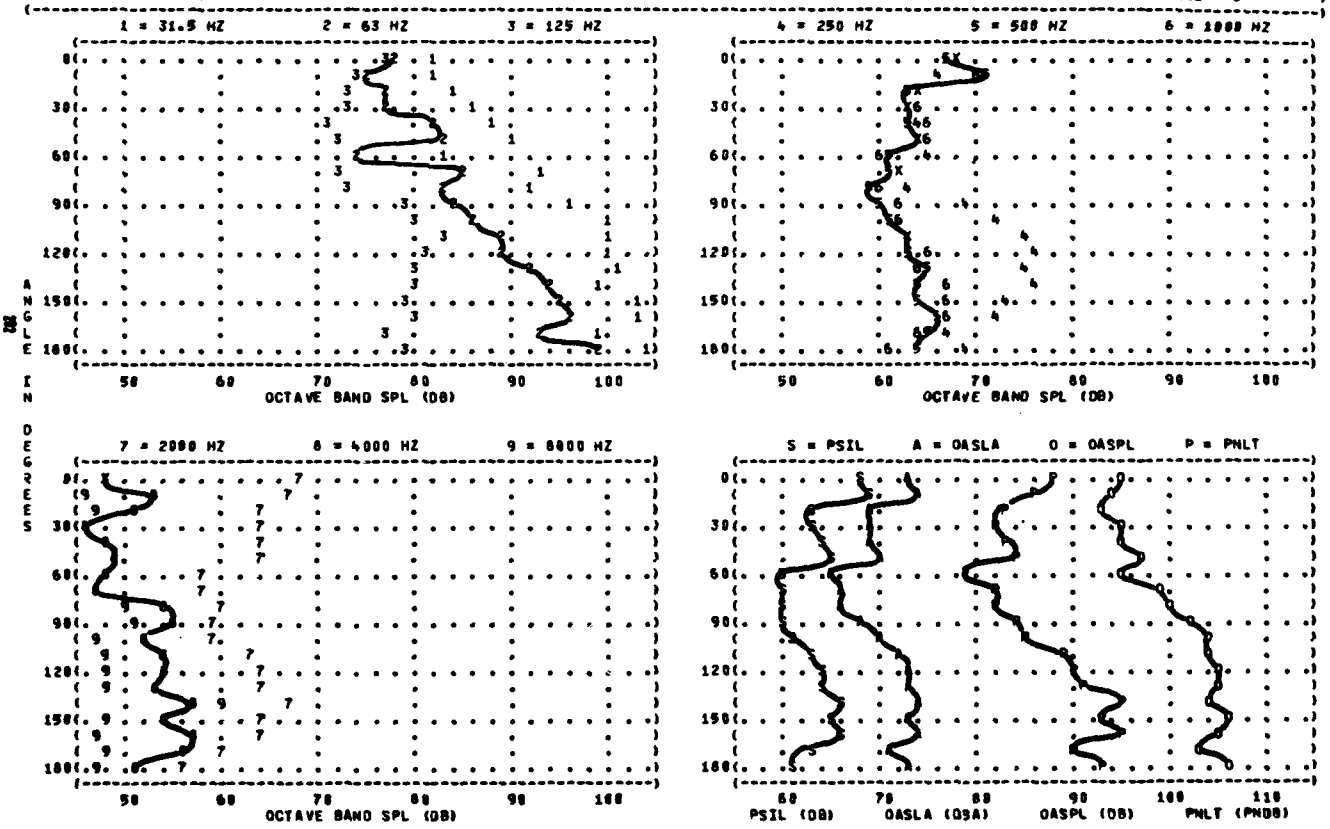


FIGURE: 6.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 01
26 OCT 81
PAGE 13

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

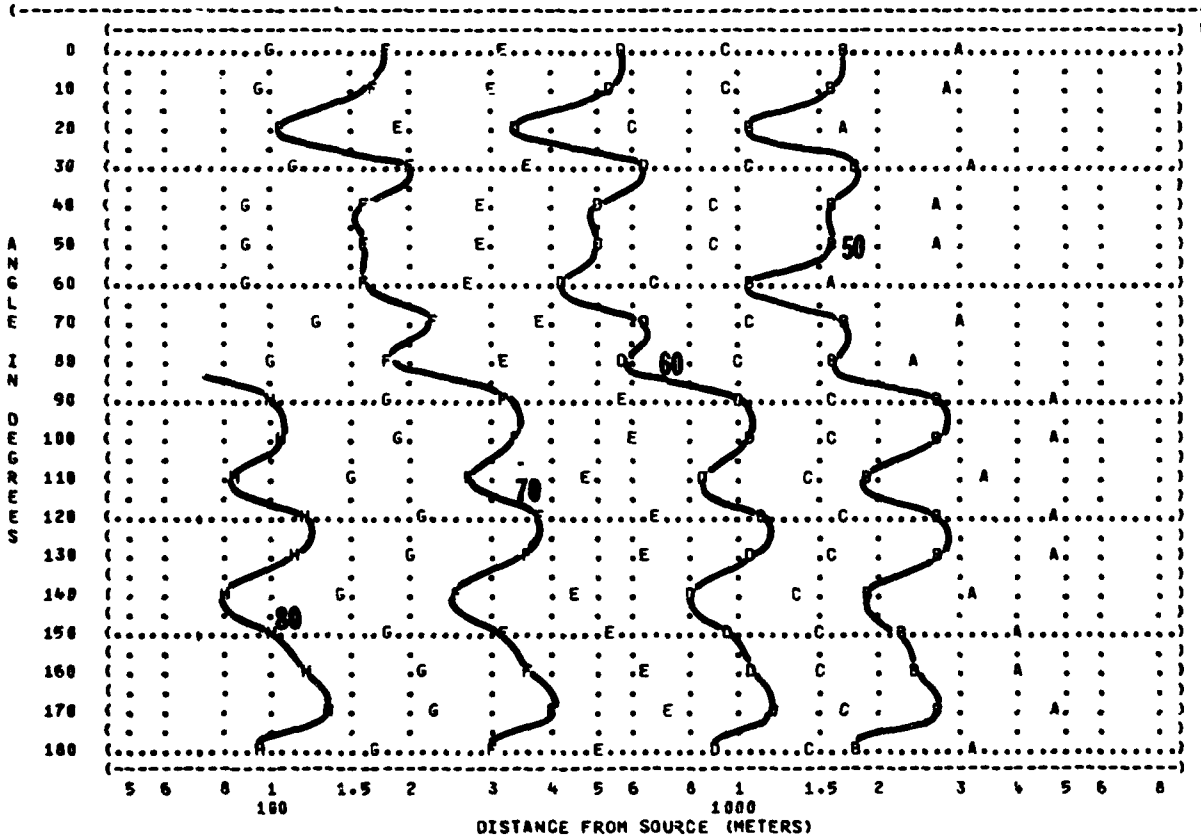


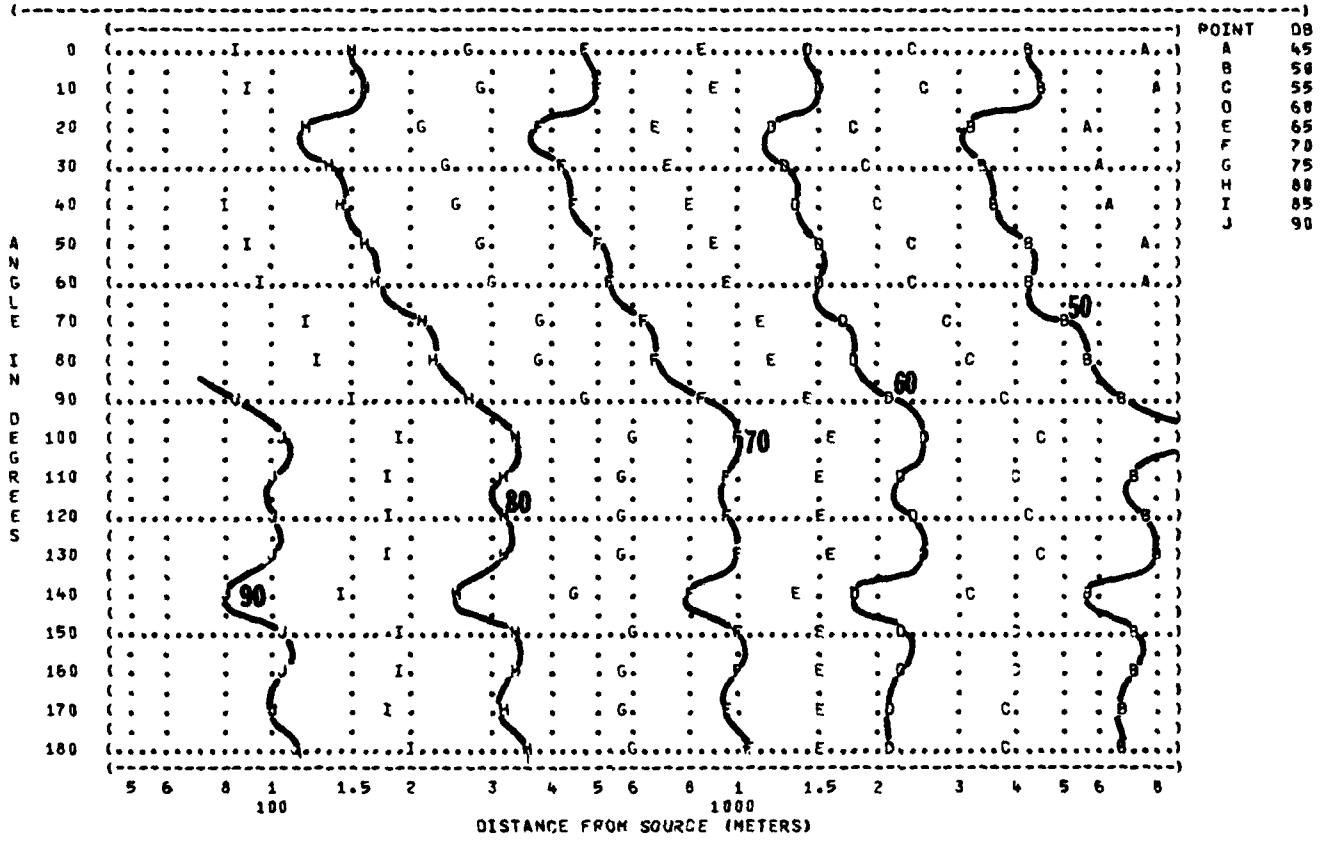
FIGURE: 6.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 02
26 OCT 81
PAGE 13



POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90

FIGURE 62 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-00
RUN 03
26 OCT 81
PAGE 13

POINT	L
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95

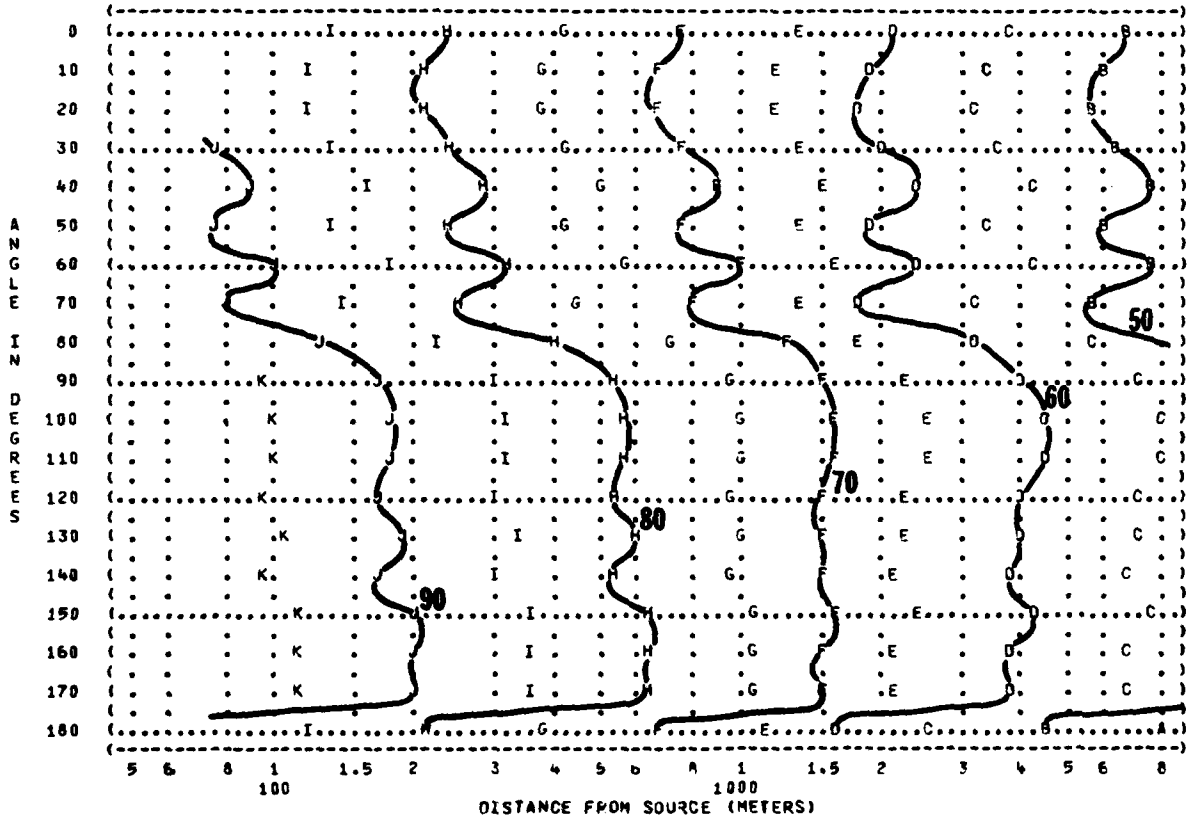


FIGURE: 6.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 04
26 OCT 81
PAGE 13

POINT	DB
A	55
B	60
C	65
D	70
E	75
F	80
G	85
H	90
I	95
J	100
K	105

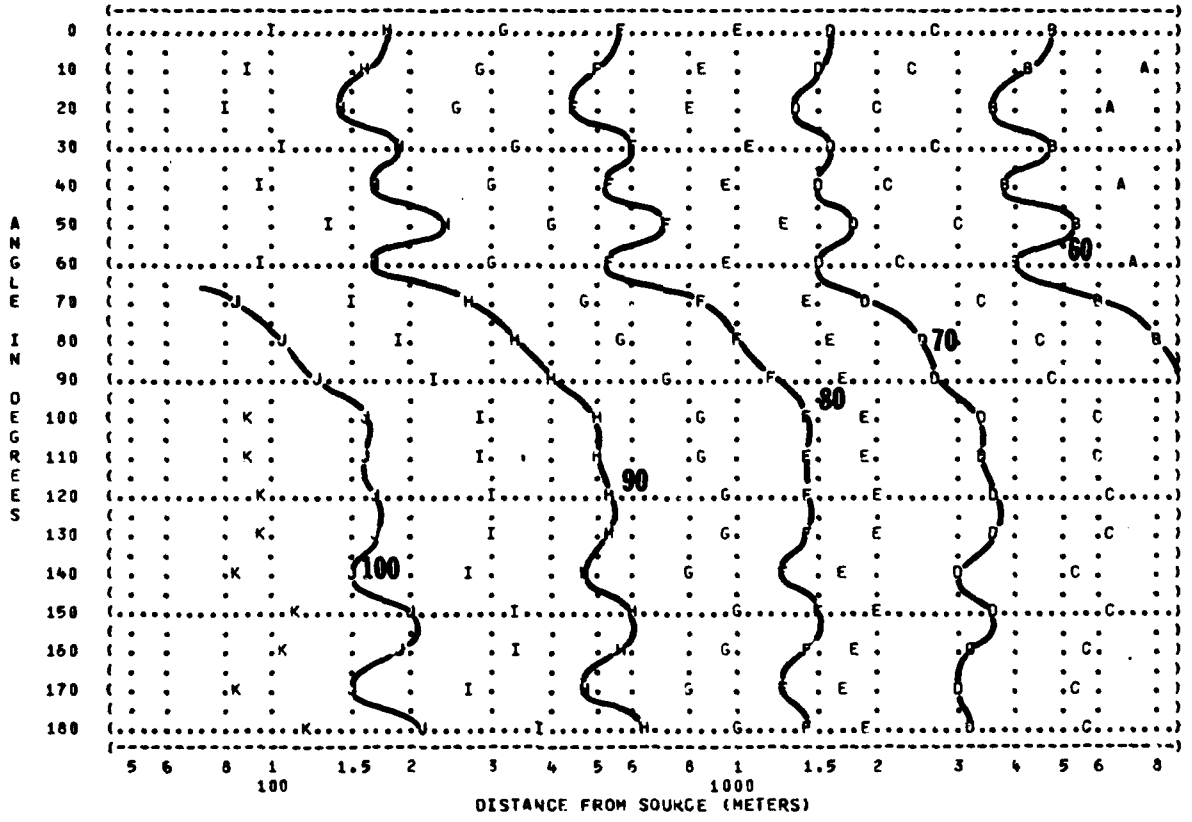


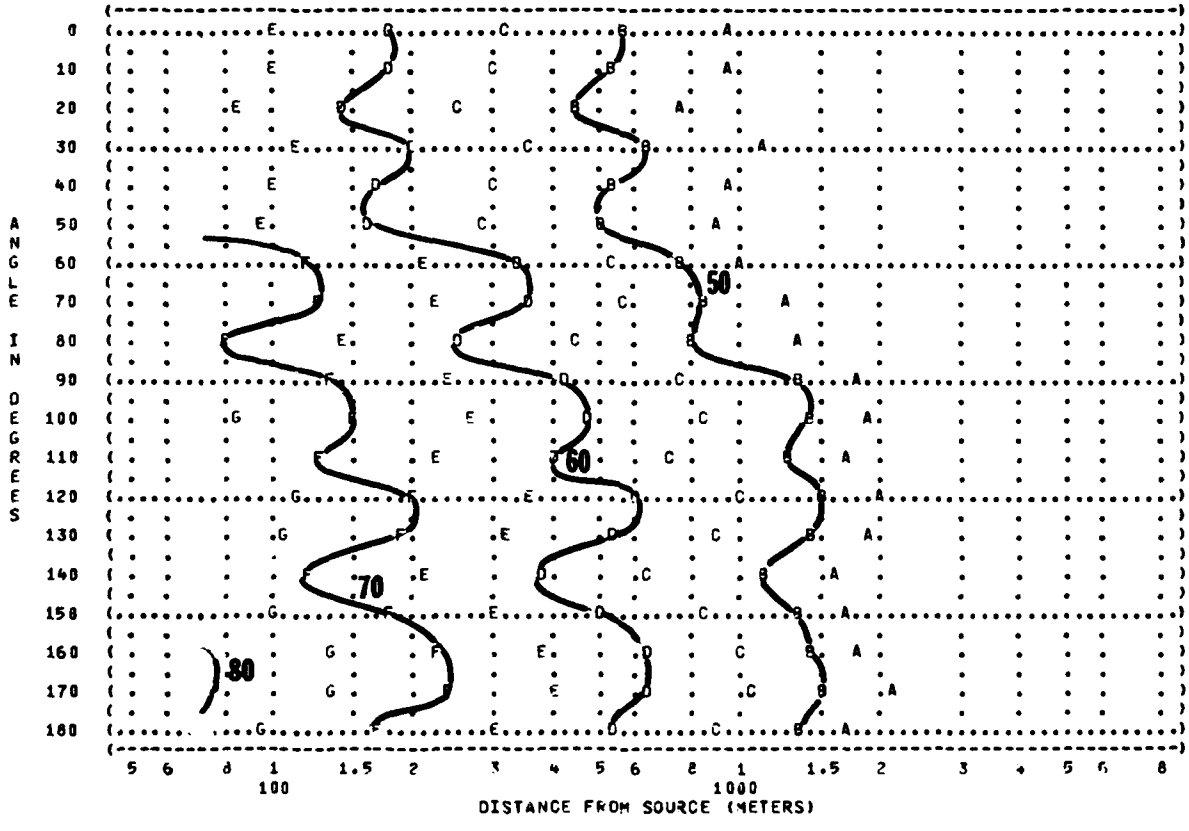
FIGURE: 6.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 01
26 OCT 81
PAGE 14



POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

FIGURE: 6.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 02
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

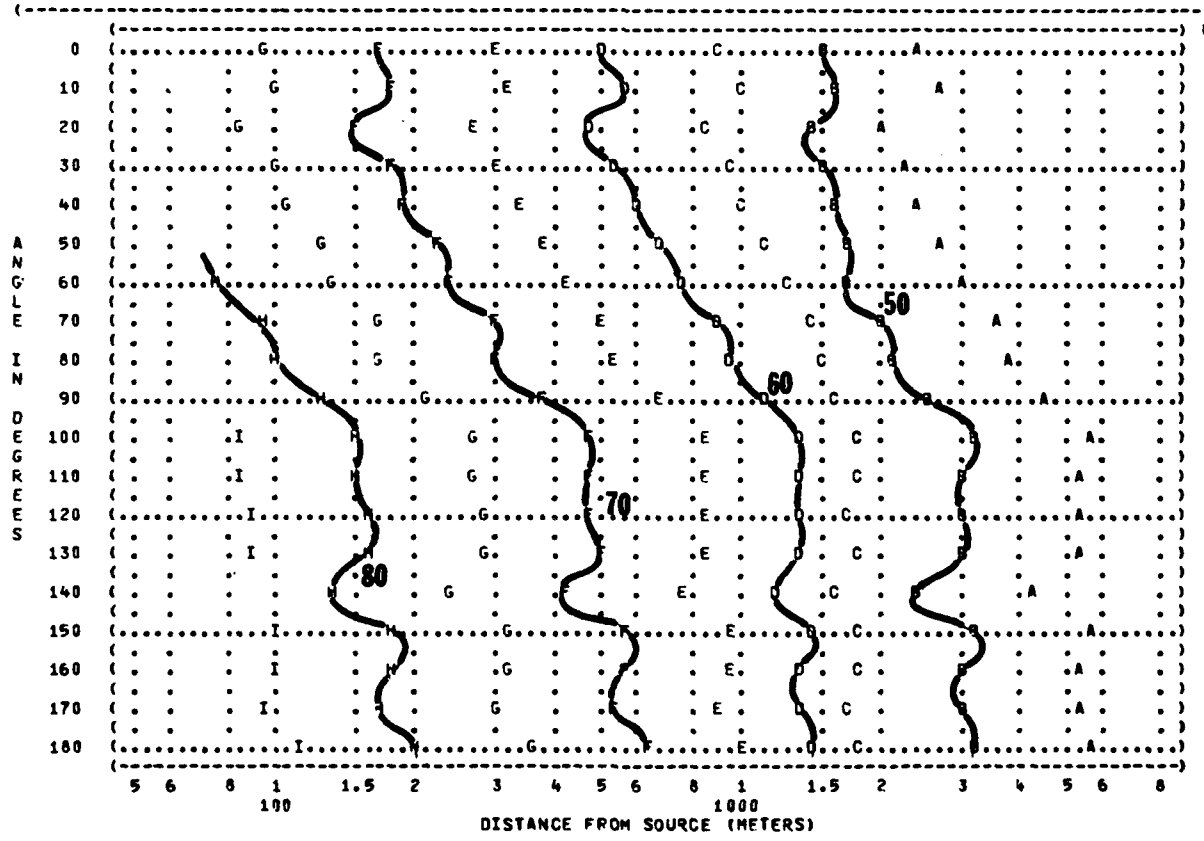


FIGURE: 6.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 03
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90

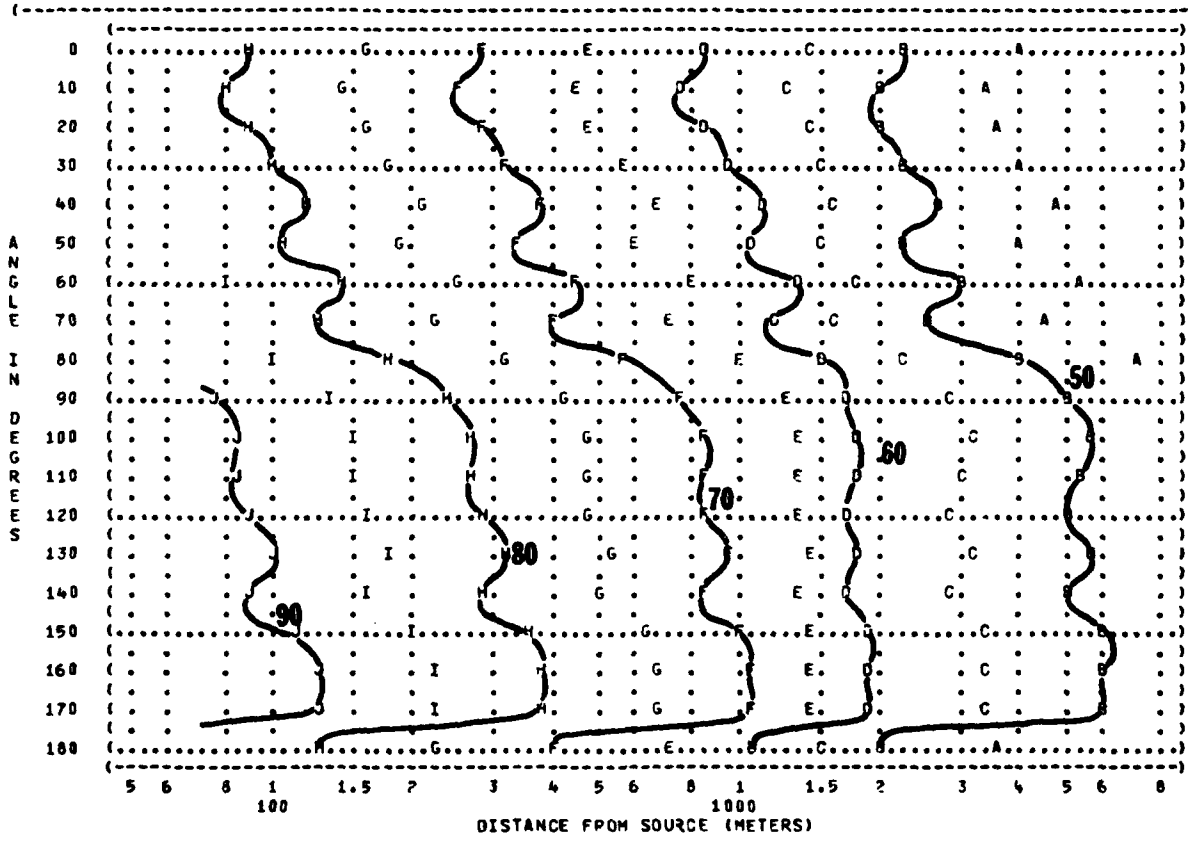


FIGURE 6.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 04
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POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95
L	100
M	105

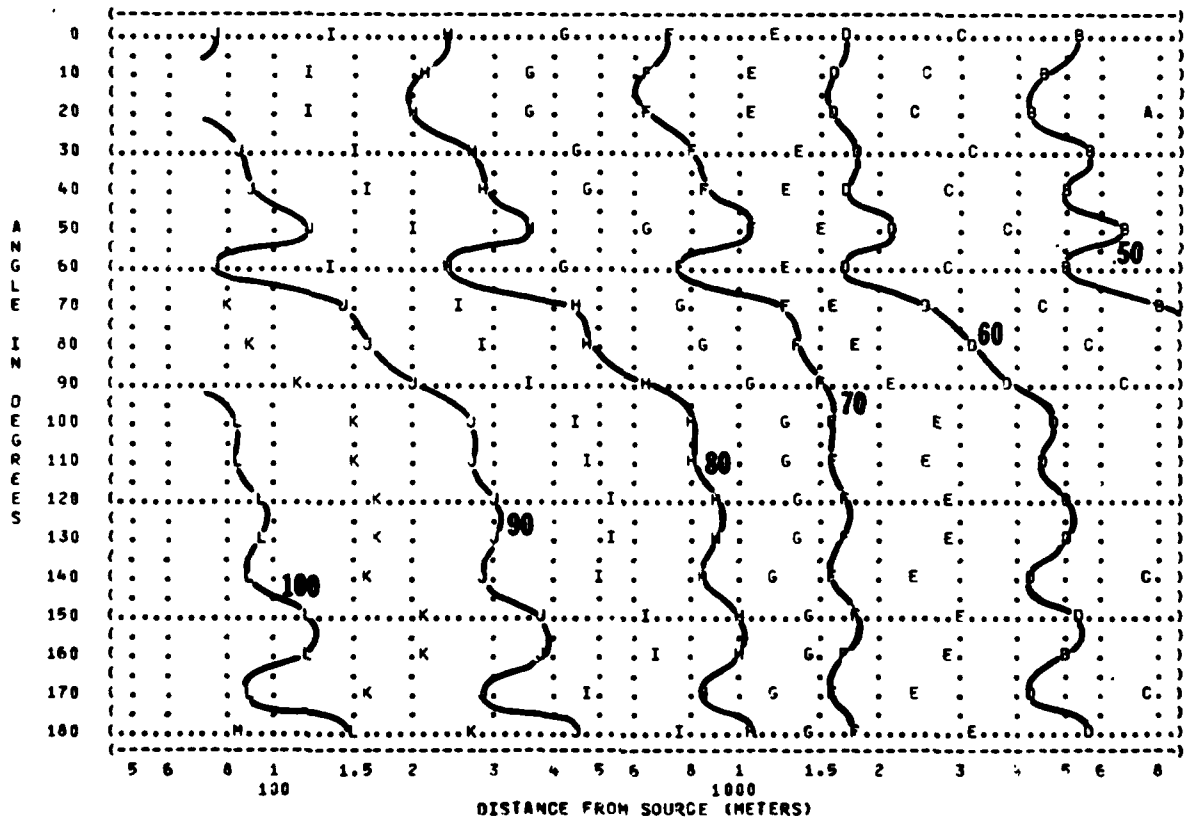

FIGURE 64 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 01
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	OBA
A	45
B	50
C	55
D	60
E	65

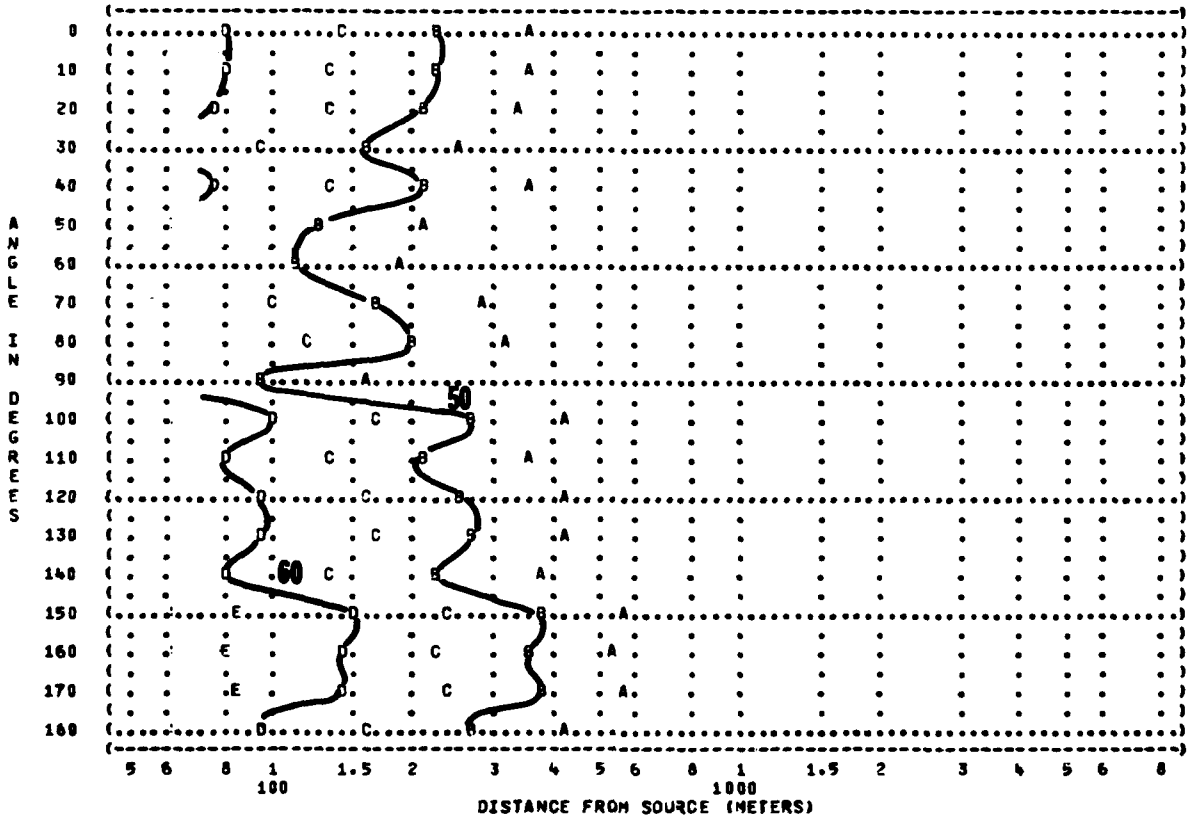

FIGURE: 6.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 02
26 OCT 81
PAGE 15

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70

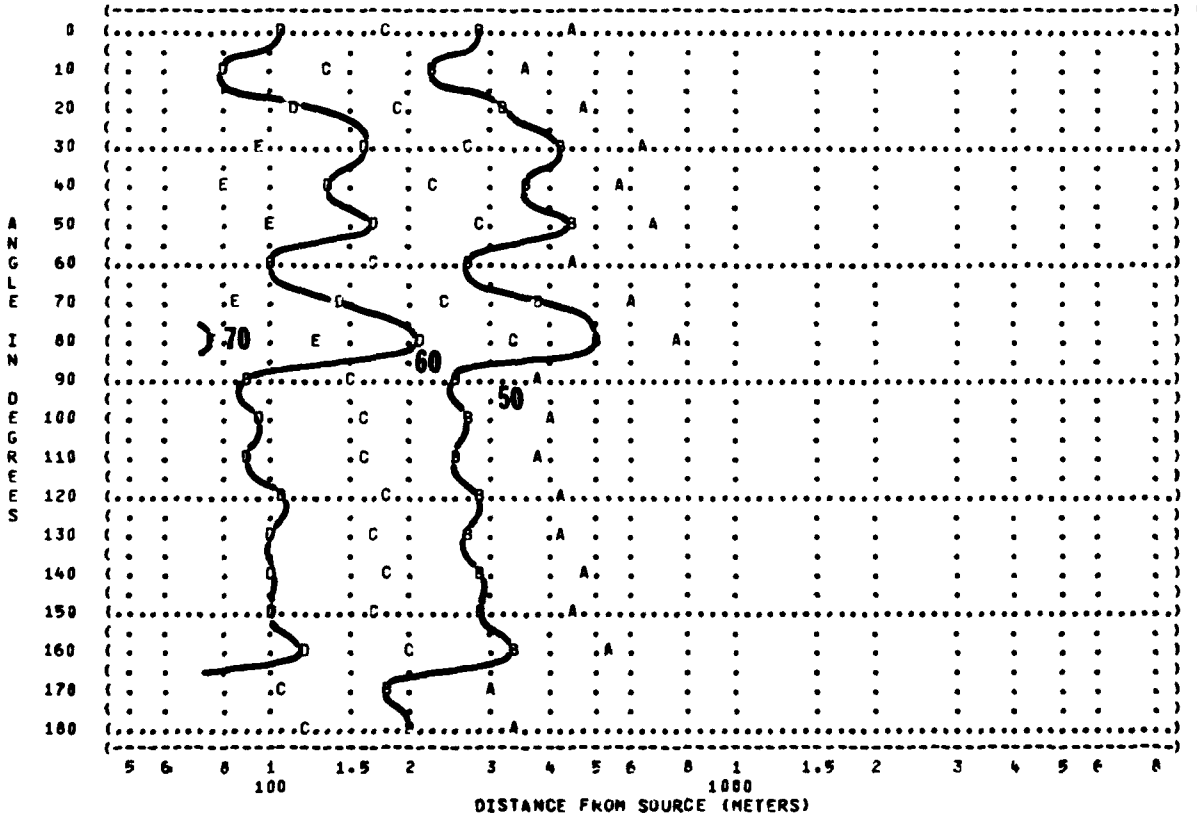

FIGURE: 6.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 03
26 OCT 81
PAGE 15

POINT	DBA
A	45
B	50
C	55
D	60
E	65

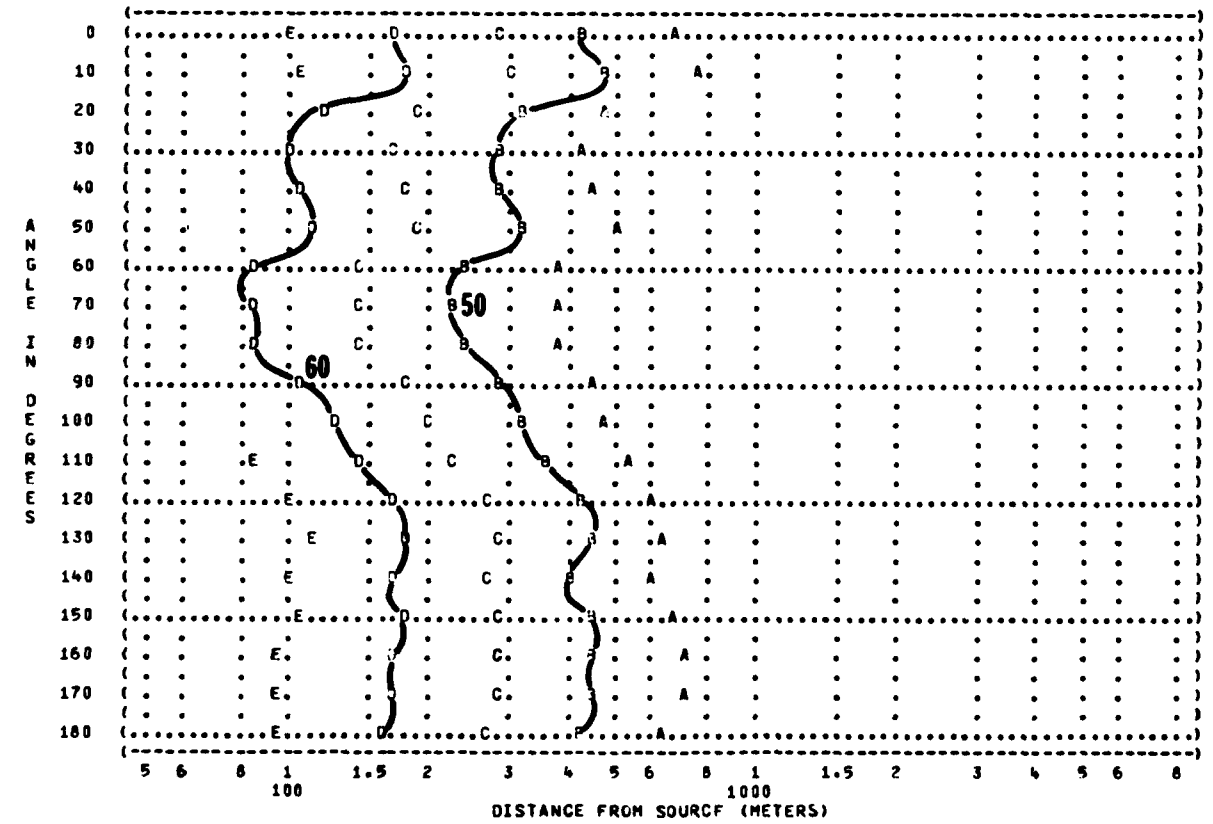

FIGURE: 6.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 04
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70
G	75

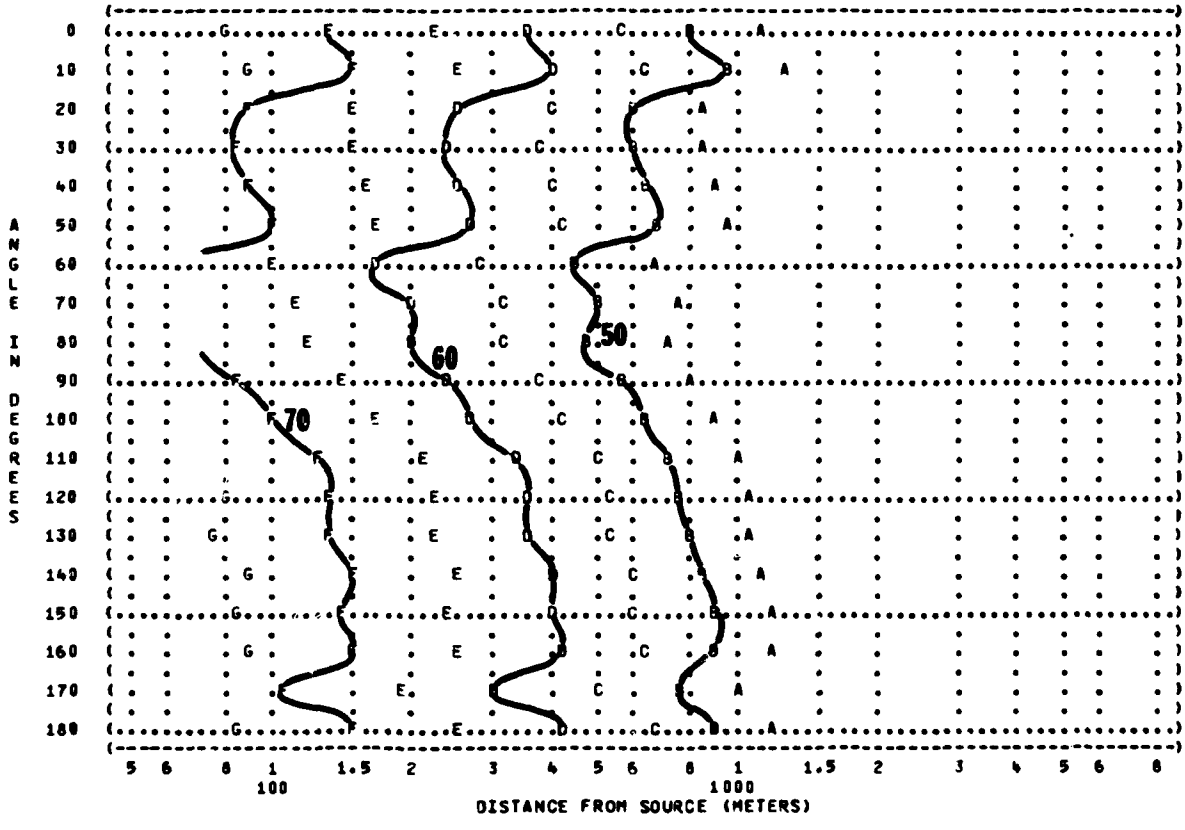

FIGURE 6.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 81
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80

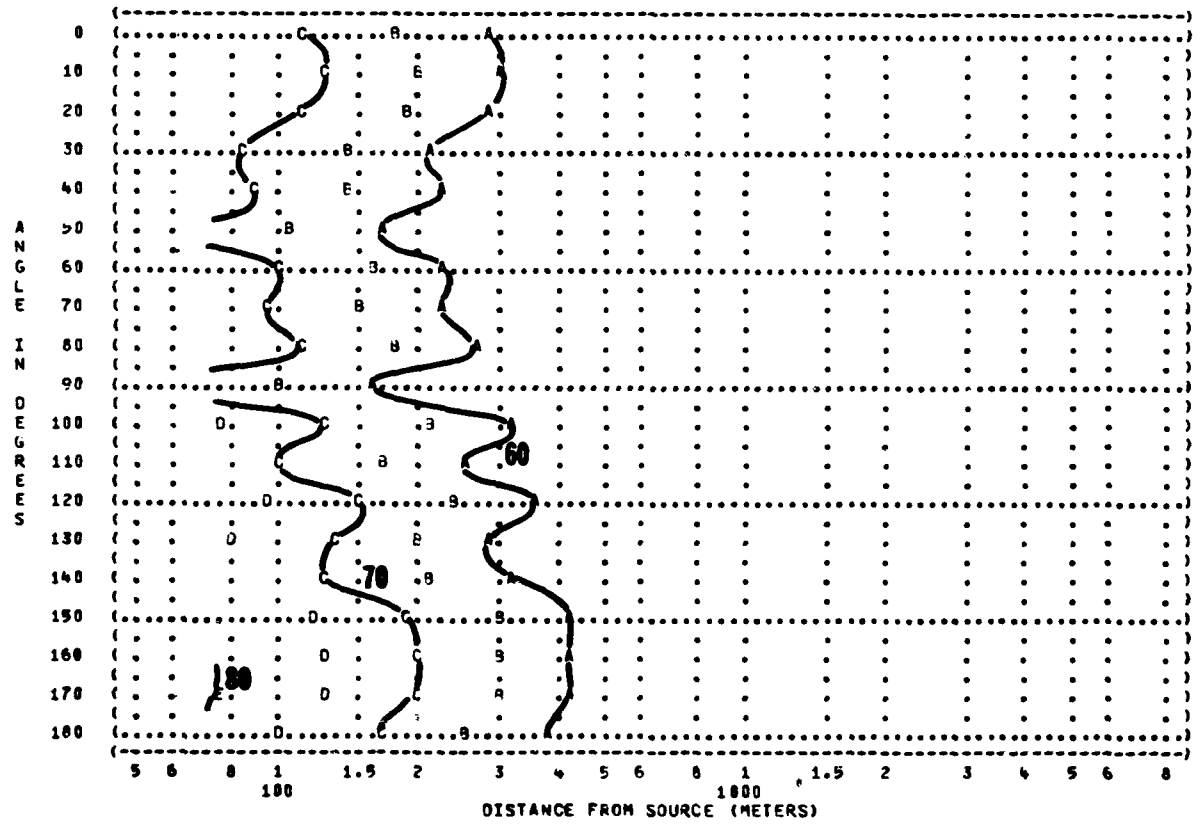

FIGURE: 6.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 02
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	50
B	65
C	70
D	75
E	80

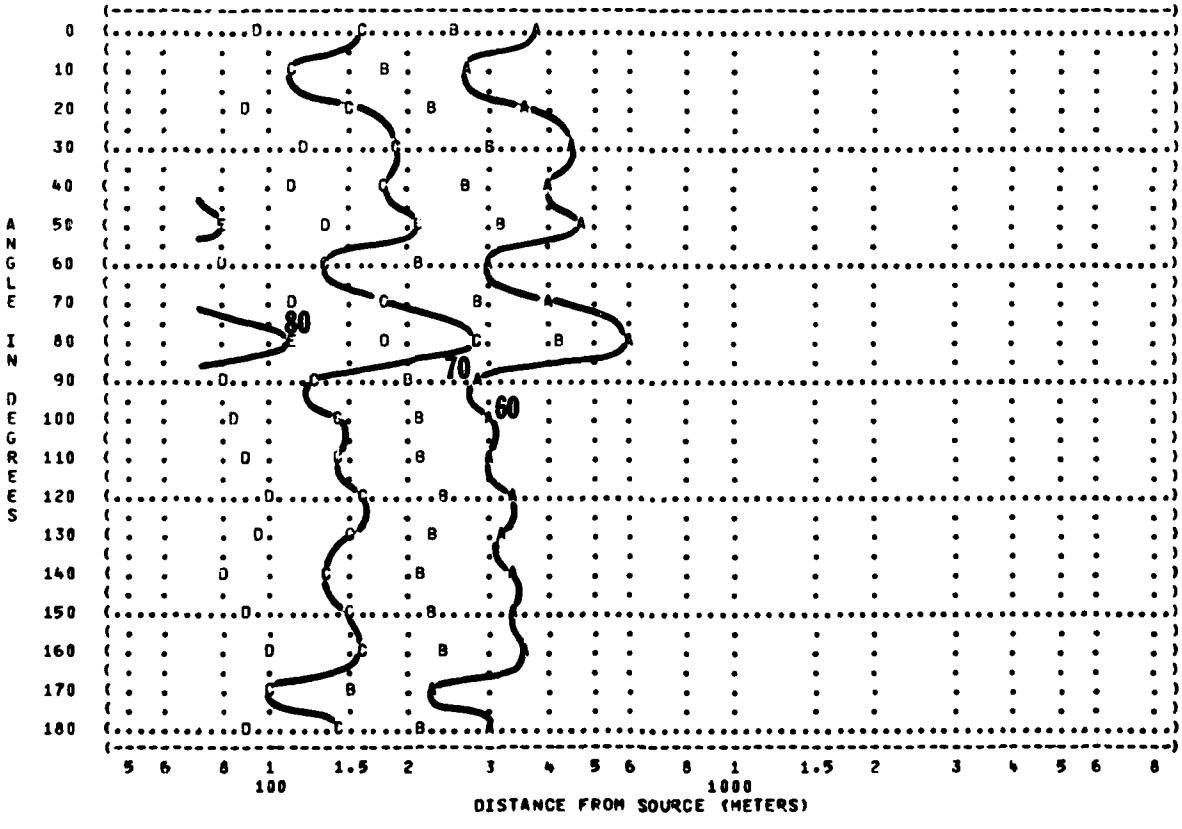

FIGURE: 6.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST AF-707-001 RUN 03 26 OCT 81

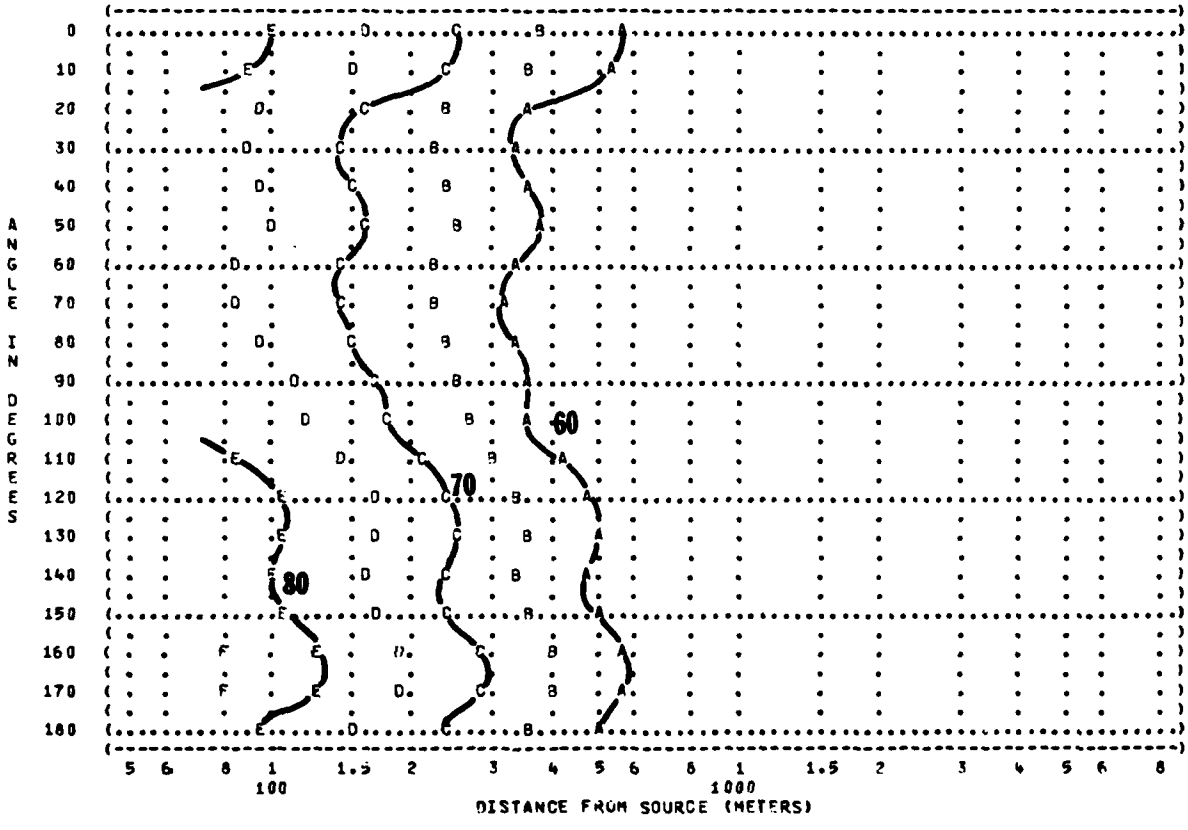

FIGURE: 6.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-707-081
RUN 04
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95

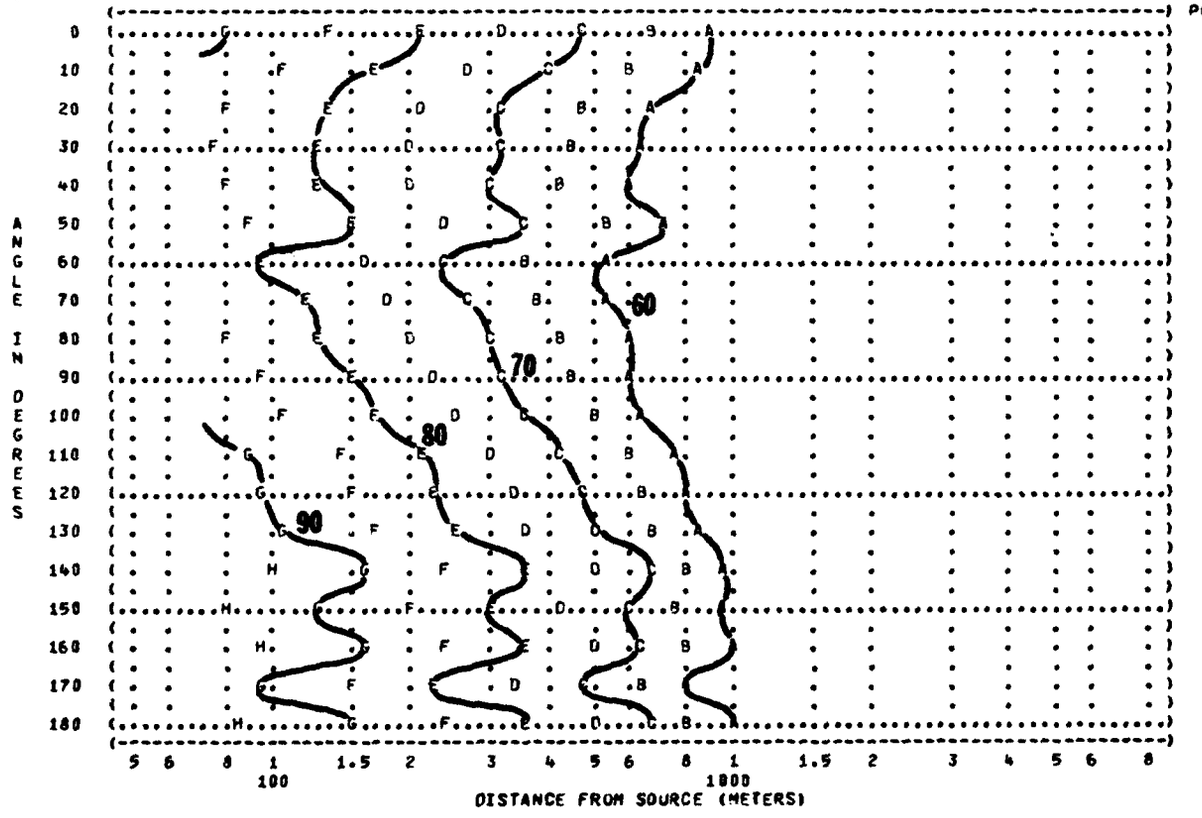

FIGURE: 6.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 01
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

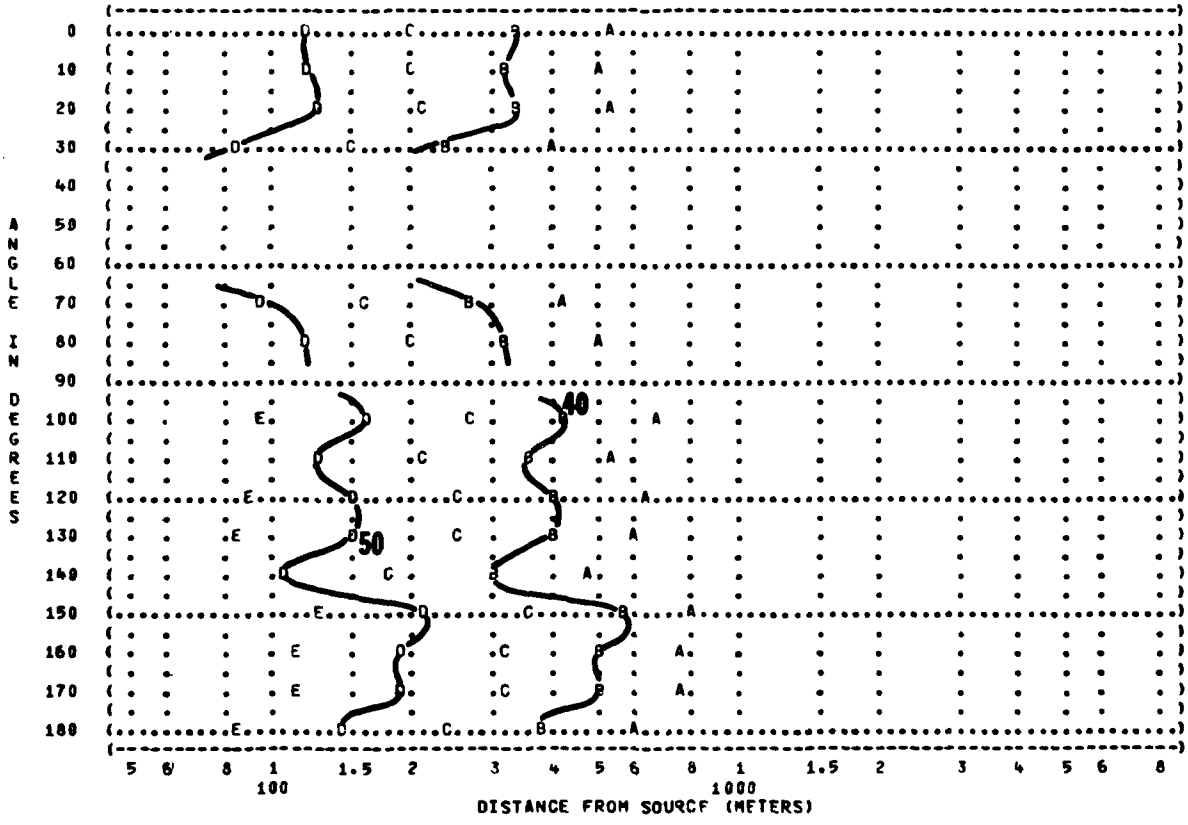

FIGURE: 6.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 02
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

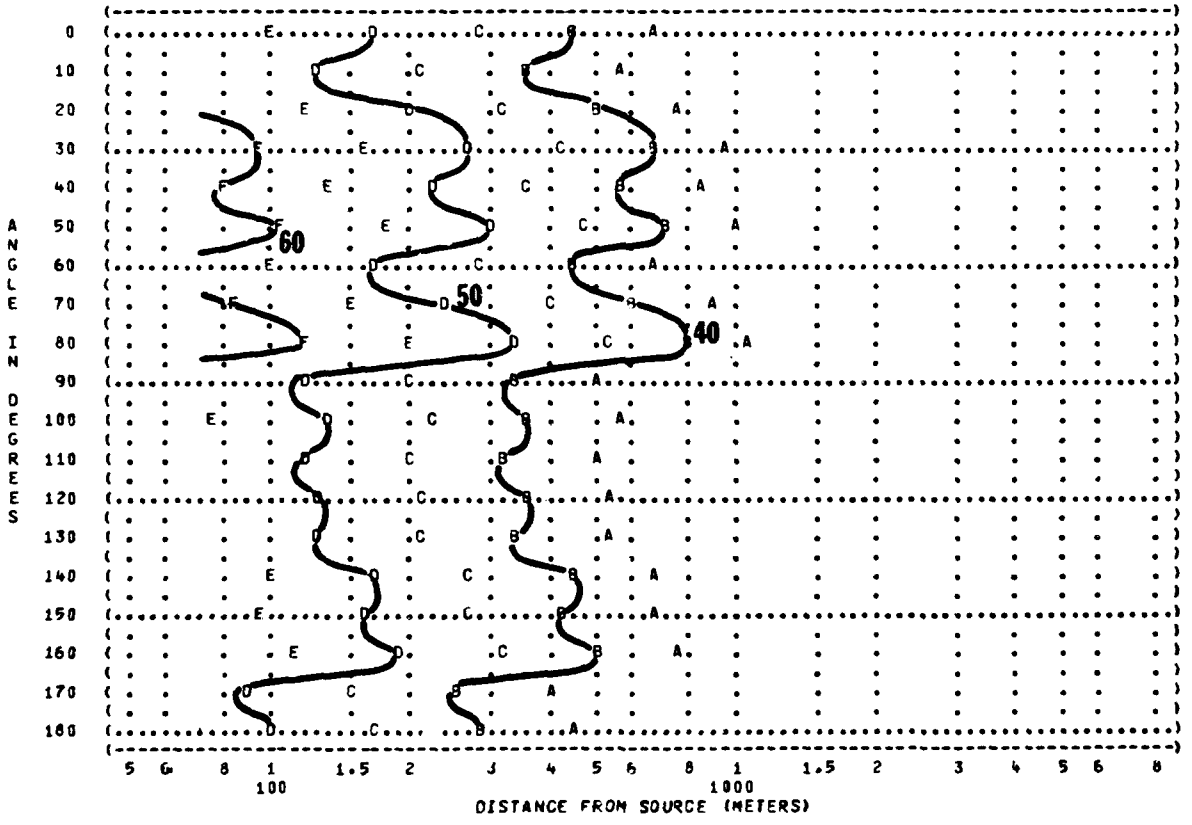

FIGURE: 6.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 03
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

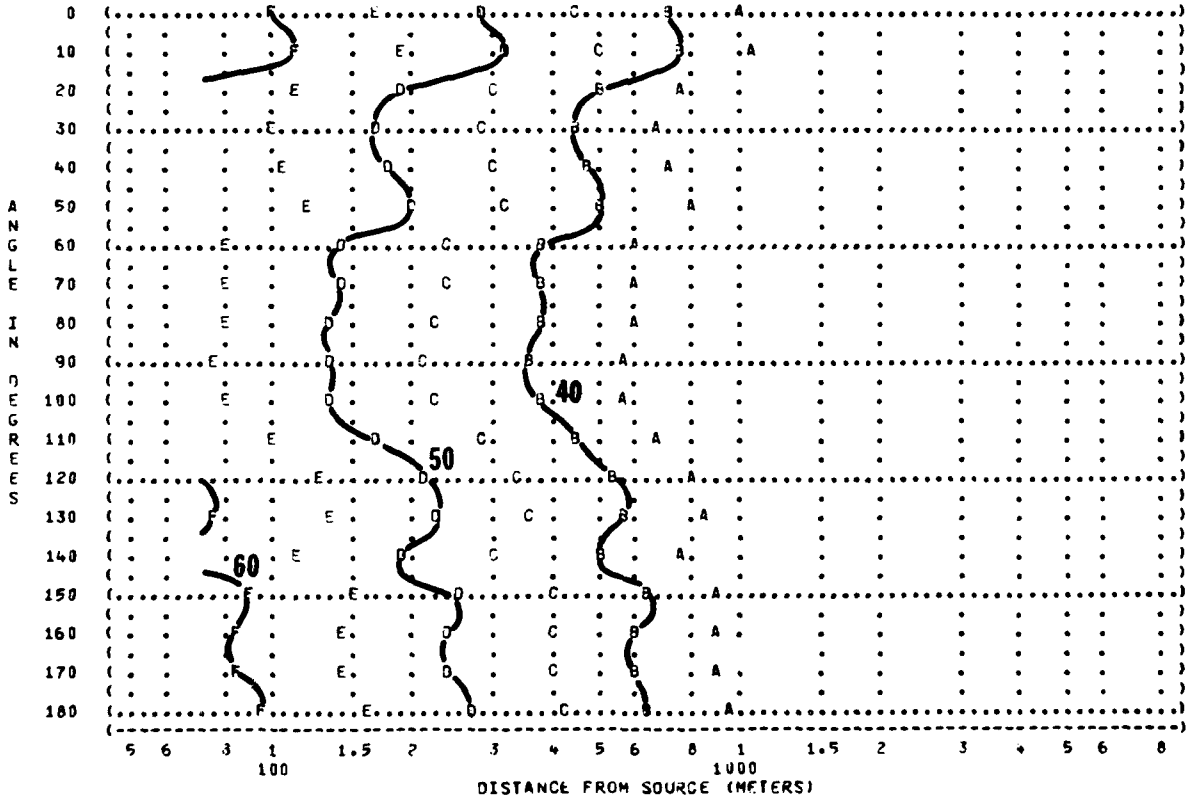

FIGURE 6.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 04
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

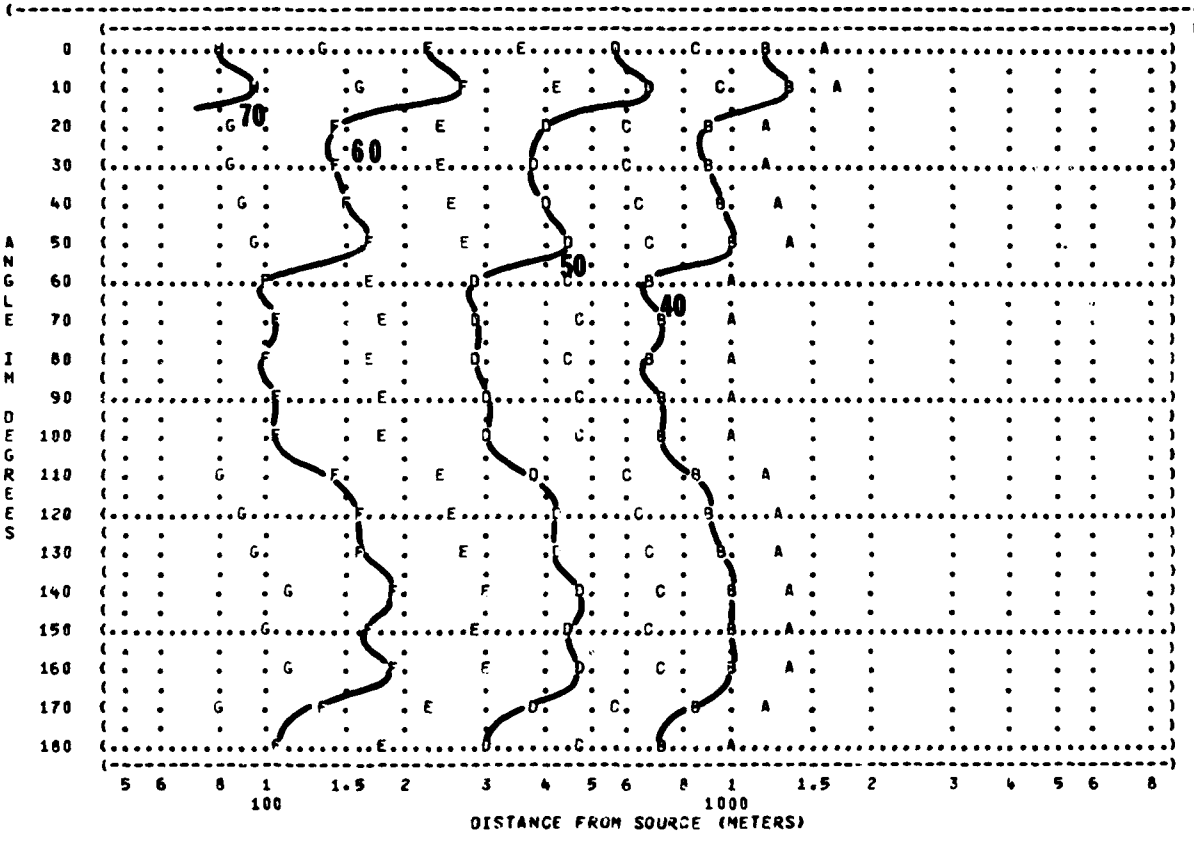

FIGURE 6.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-787-001
RUN 01
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

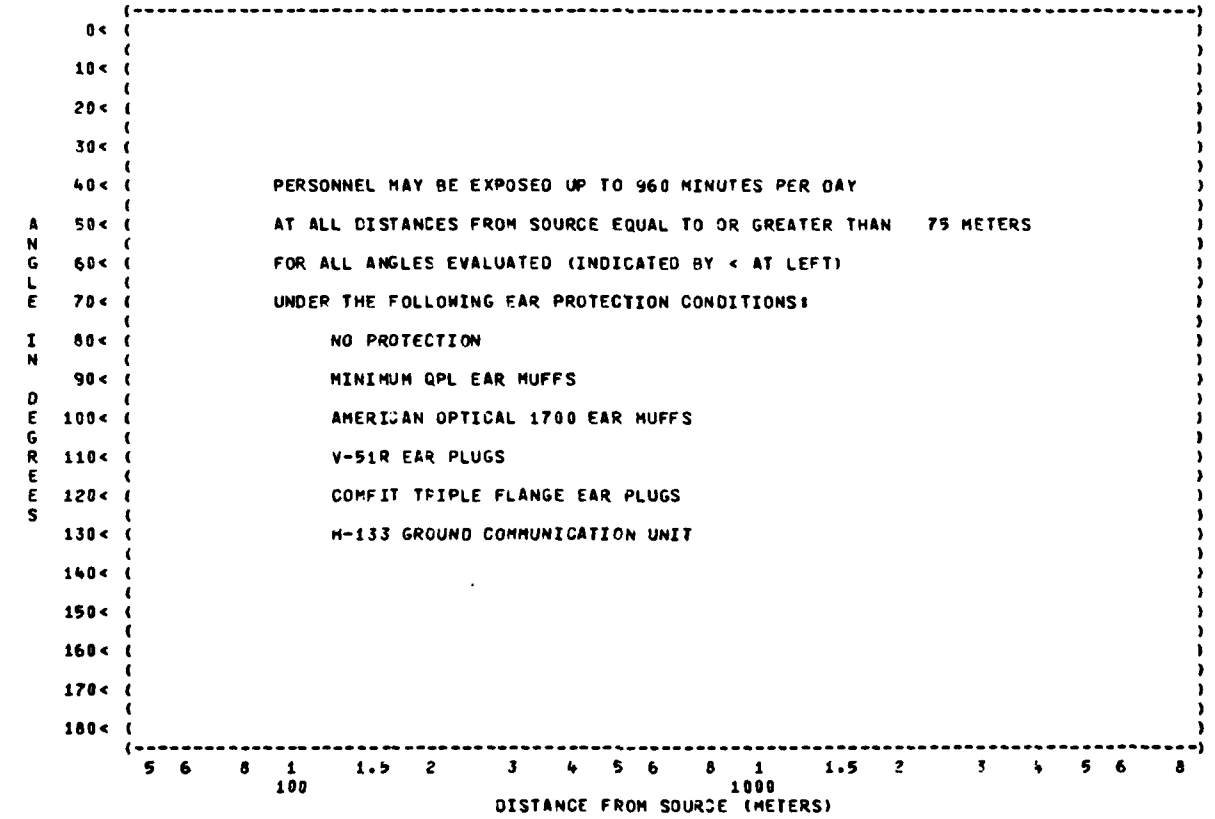

FIGURE: 6.7	MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)		IDENTIFICATION: OMEGA 1.4 TEST BF-707-001 RUN 02 26 OCT 81 PAGE 7
NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE	OPERATION: 95% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %	

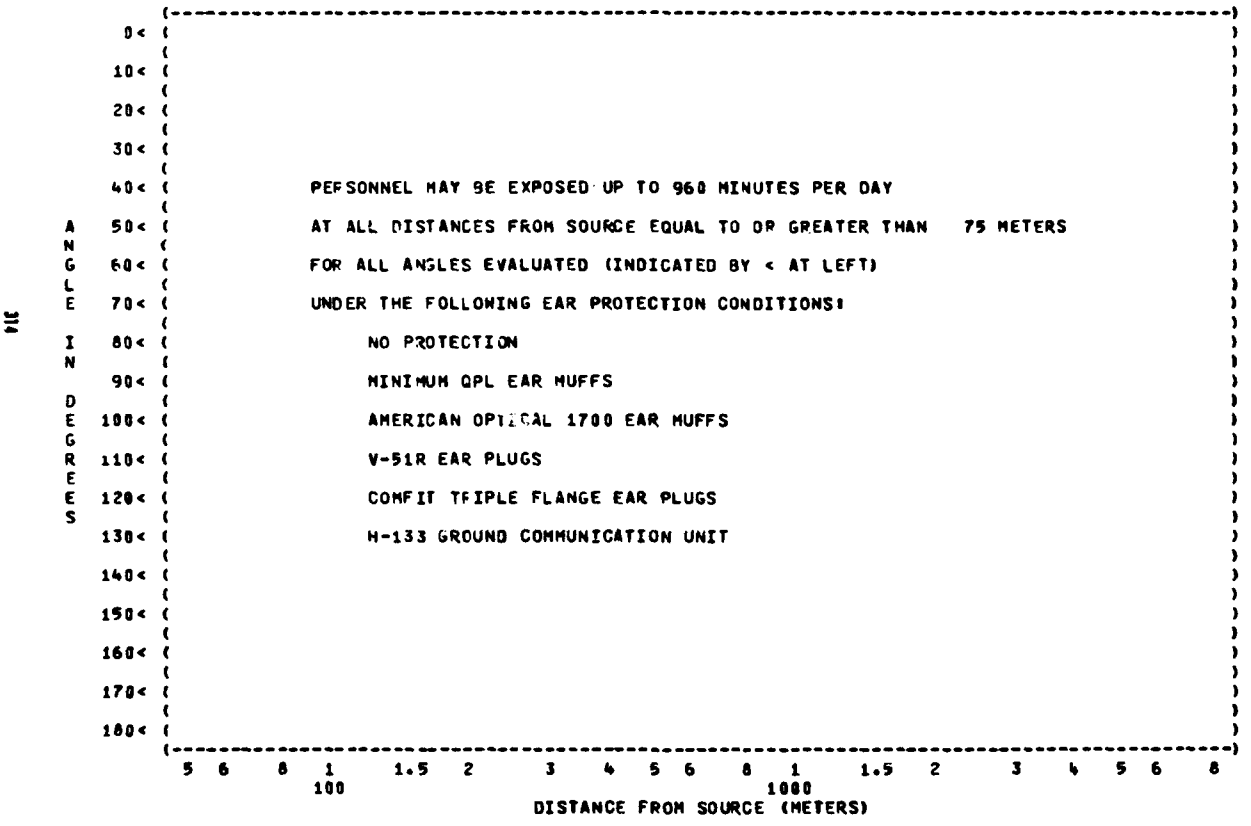

FIGURE: 6.7	MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)	IDENTIFICATION:
NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE	OPERATION: MILITARY POWER (100%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 % PAGE 7	OMEGA 1.4 TEST BF-787-001 RUN 03 26 OCT 81

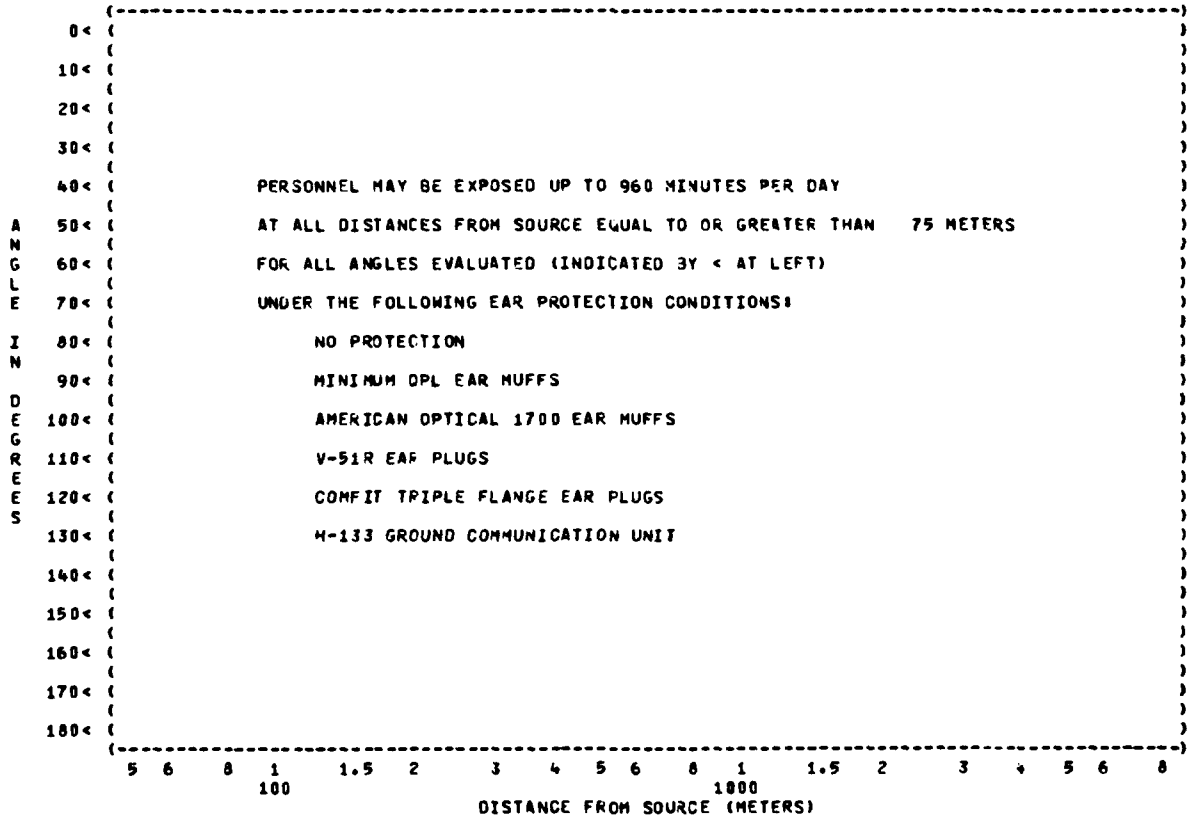

FIGURE: 6.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 04
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

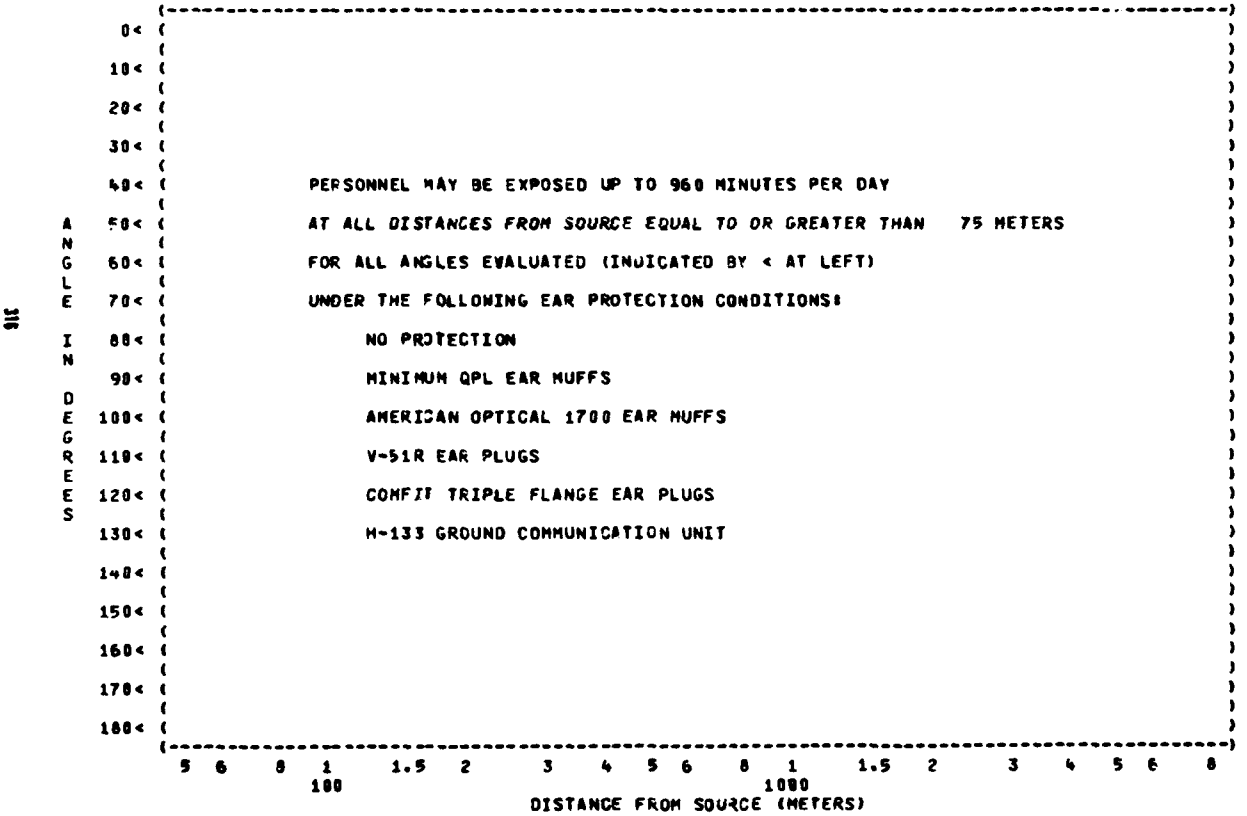

FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST PF-707-081 RUN 01 26 OCT 81 PAGE 18

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

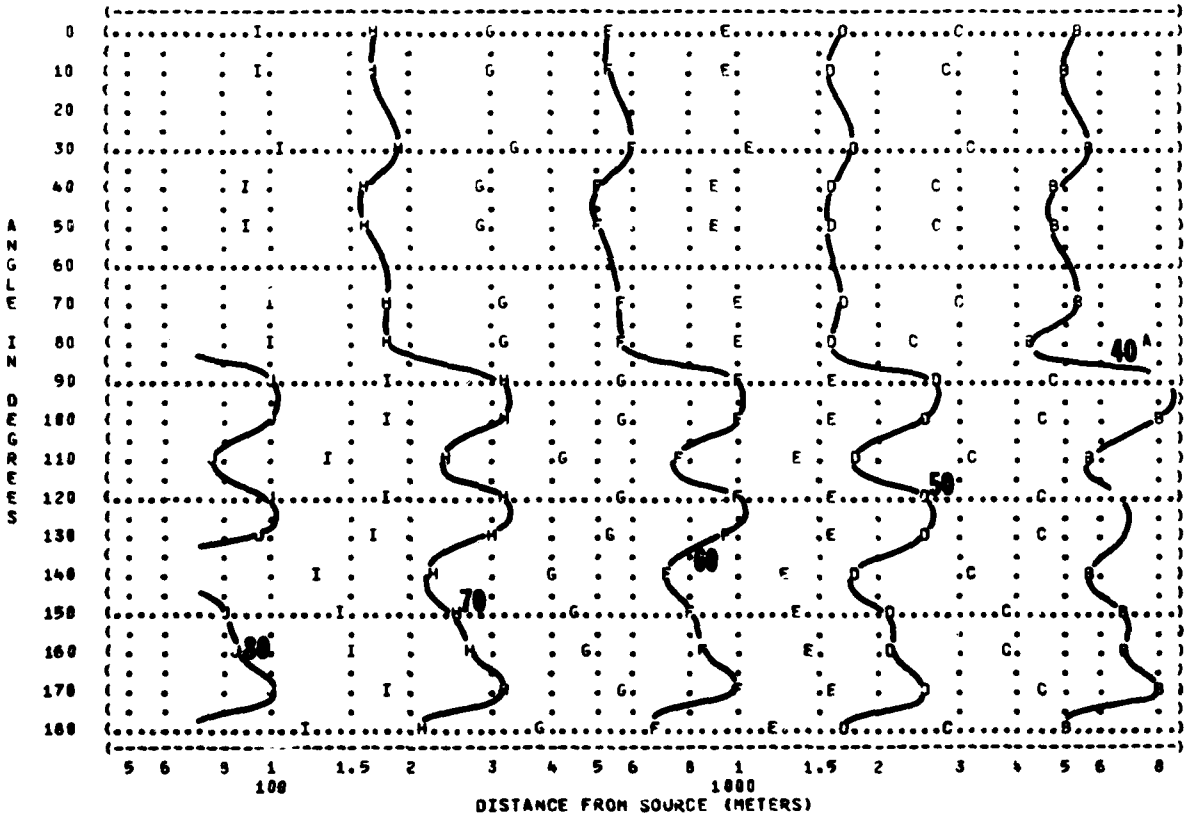

FIGURE: 6.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
31.5 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST 8F-707-001
RUN 01
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

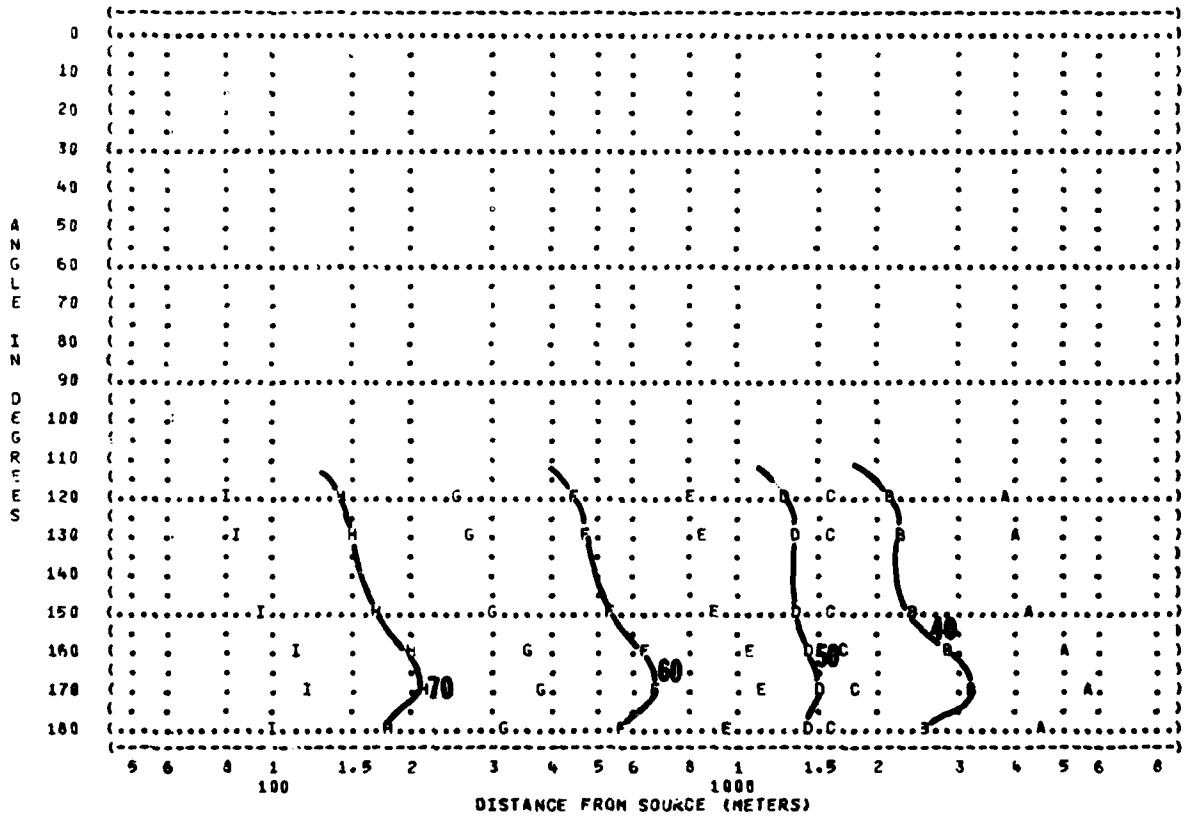

FIGURE: 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-881
RUN 01
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M MS
REL HUMID = 70 %

POINT	DB
A	35
B	48
C	45
D	50
E	55
F	60
G	65
H	70

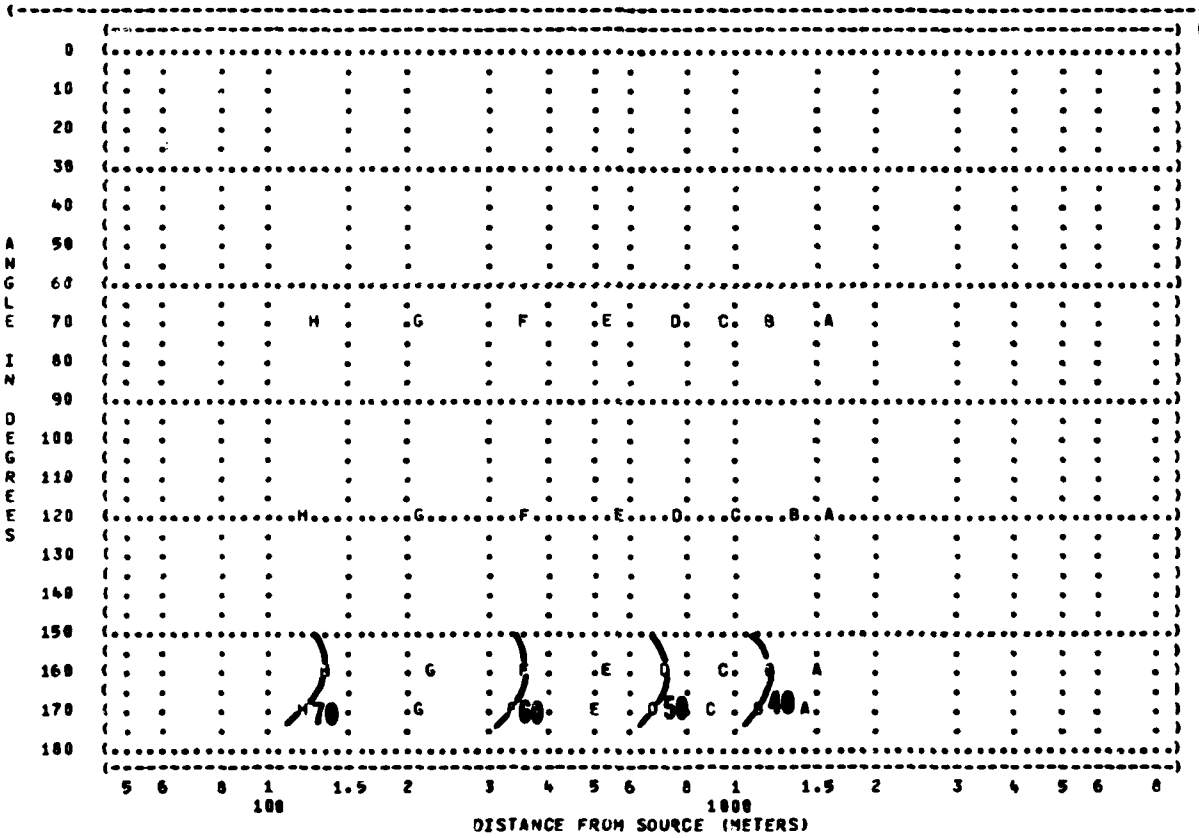

FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 01
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

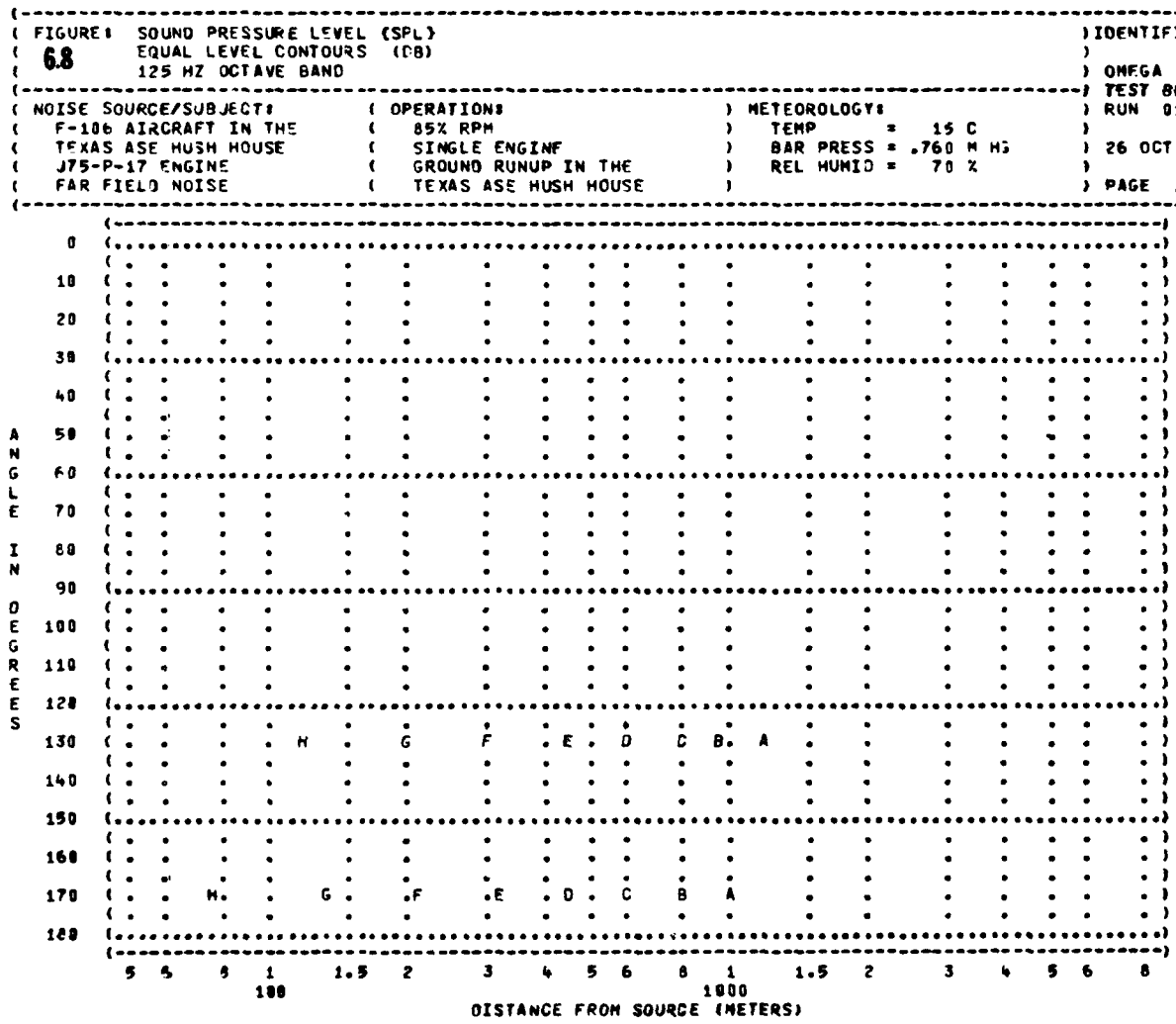

FIGURE: 68 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-081
RUN 01
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

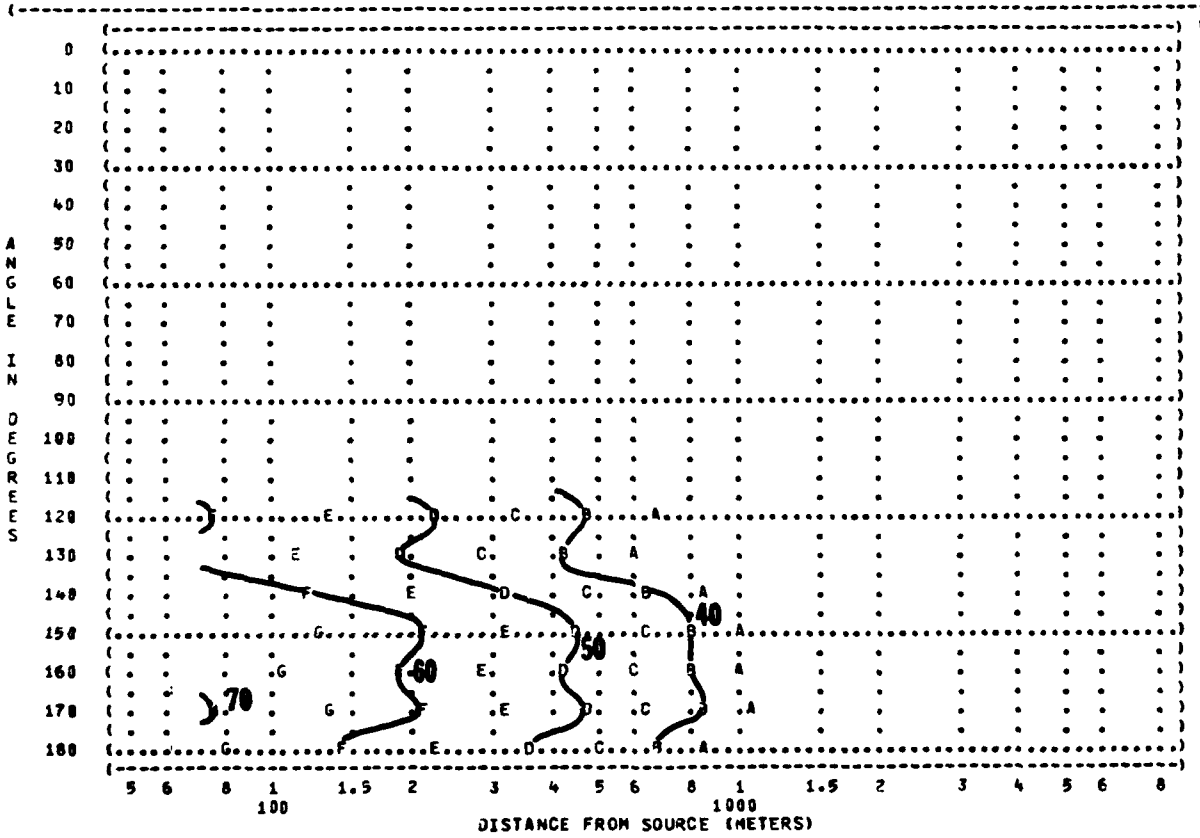

FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-787-881 RUN 01 26 OCT 81 PAGE 23

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

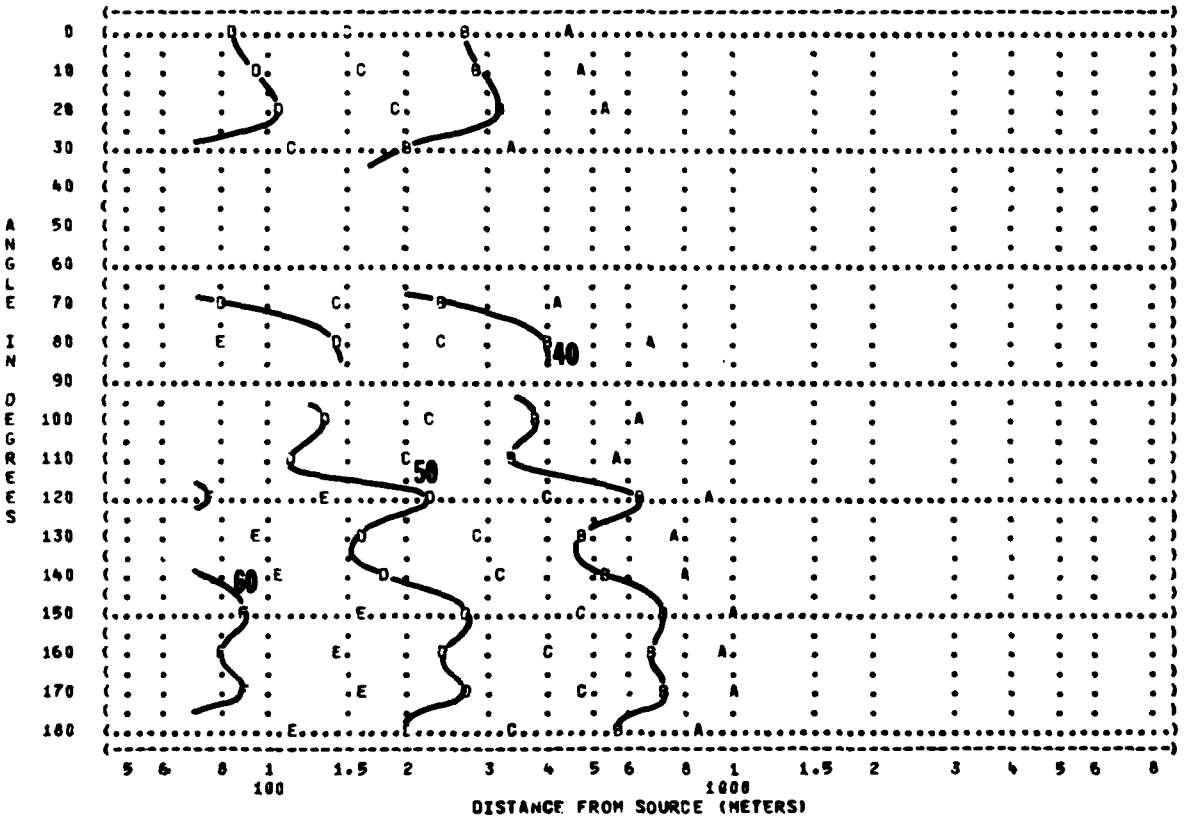

FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 01
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

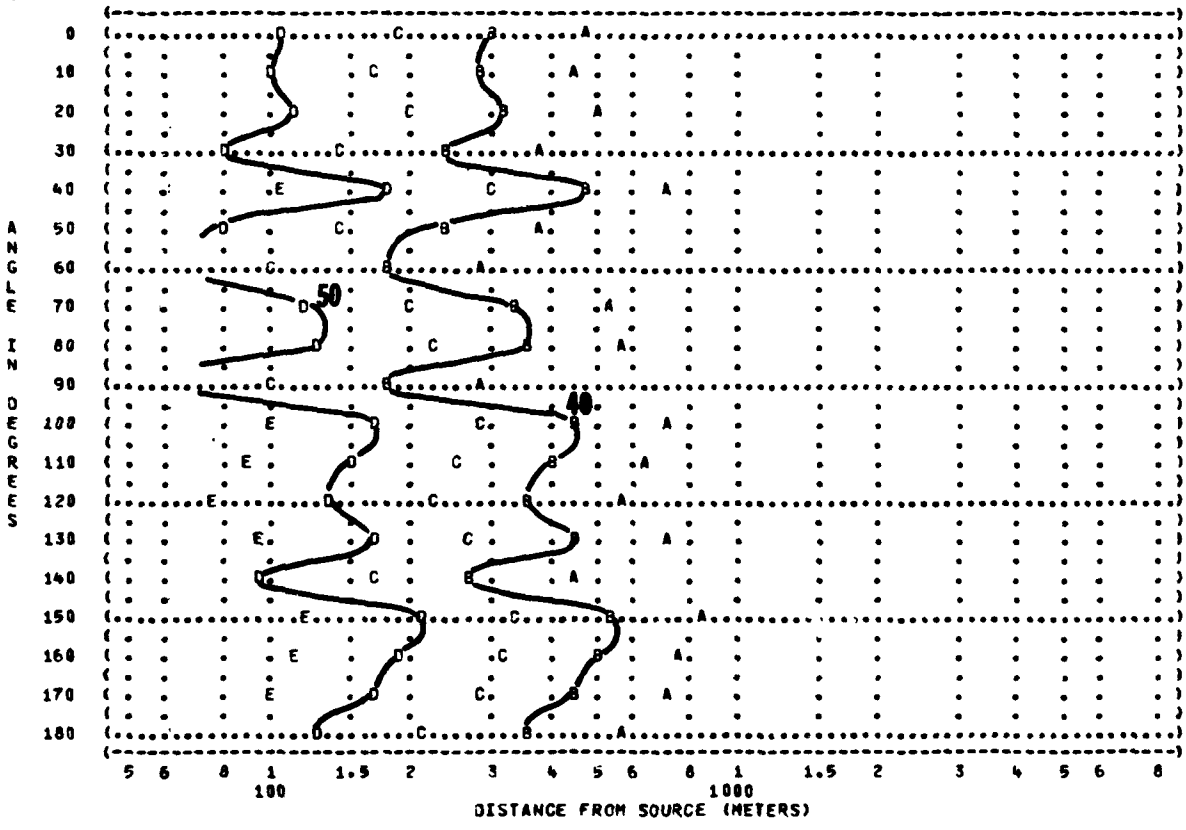

FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST AF-707-001 RUN 01 26 OCT 81 PAGE 25

POINT	DB
A	35
B	40
C	45
D	50
E	55

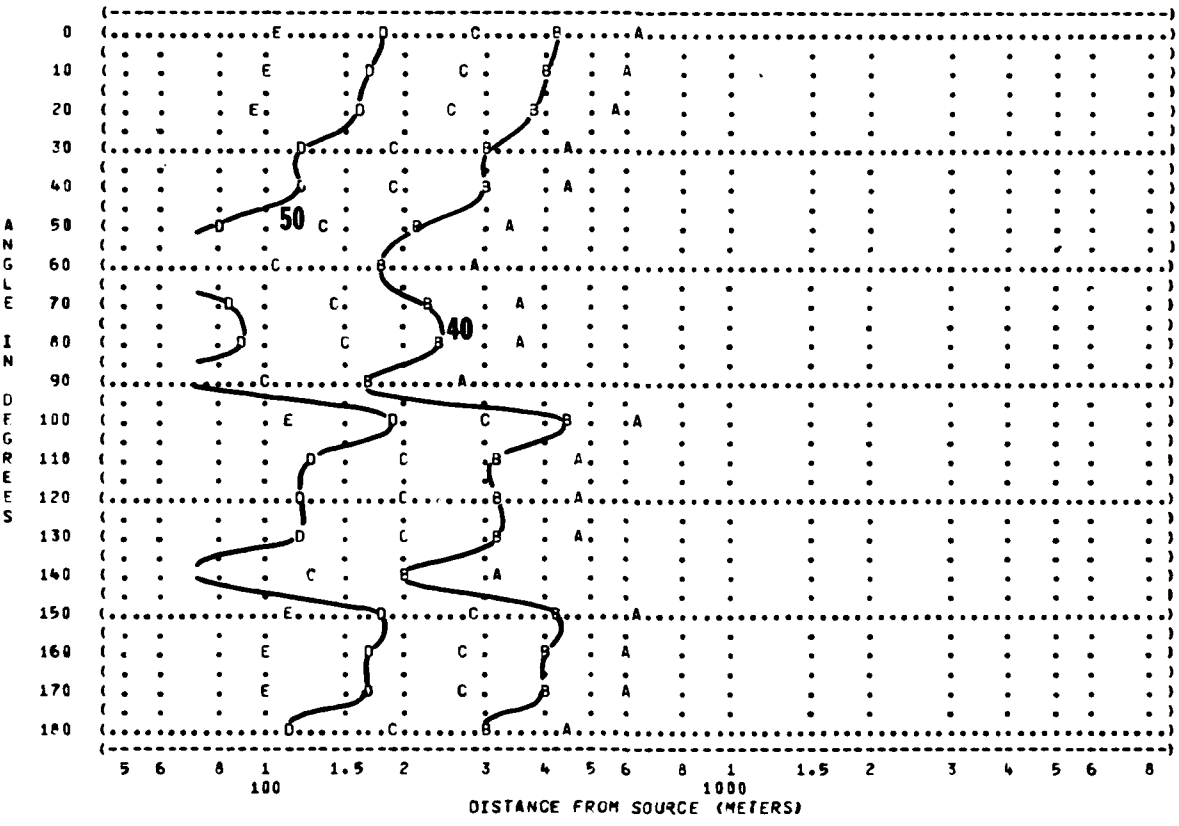

FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 01
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PAGE 26

POINT	DB
A	35
B	40
C	45
D	50

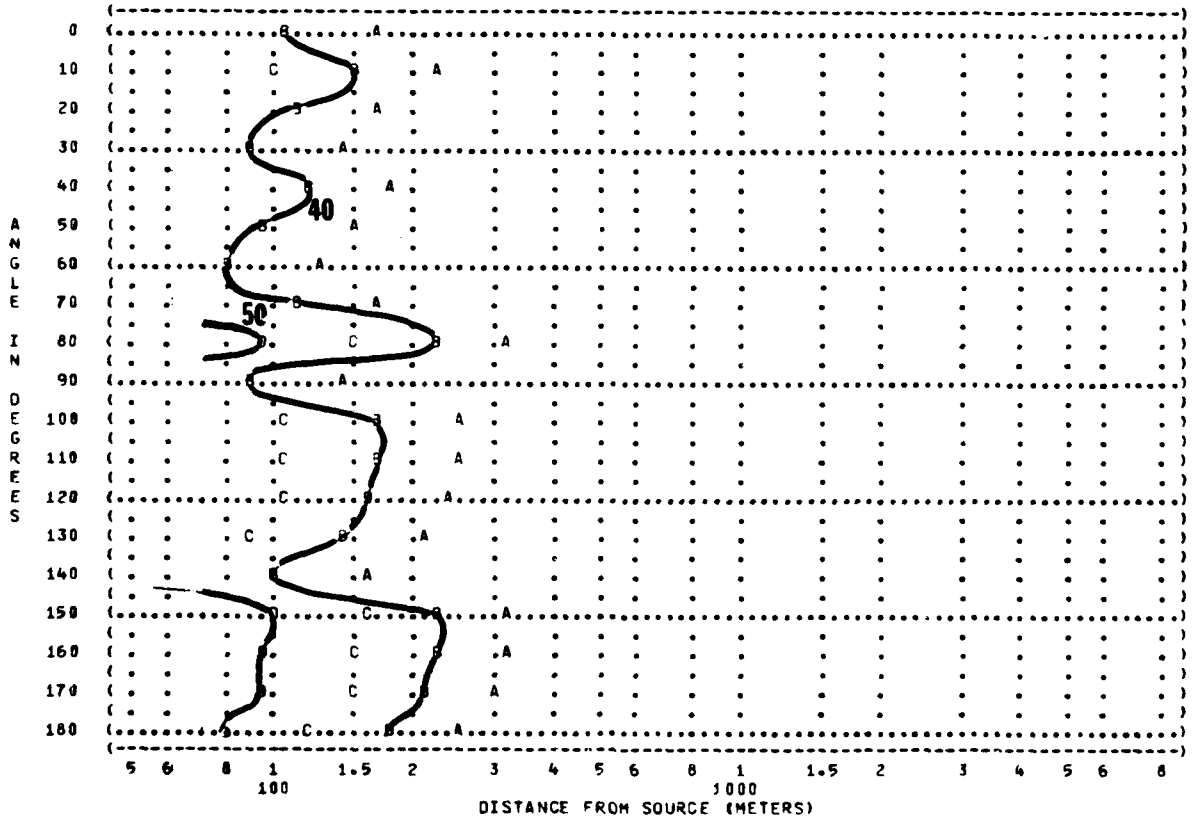


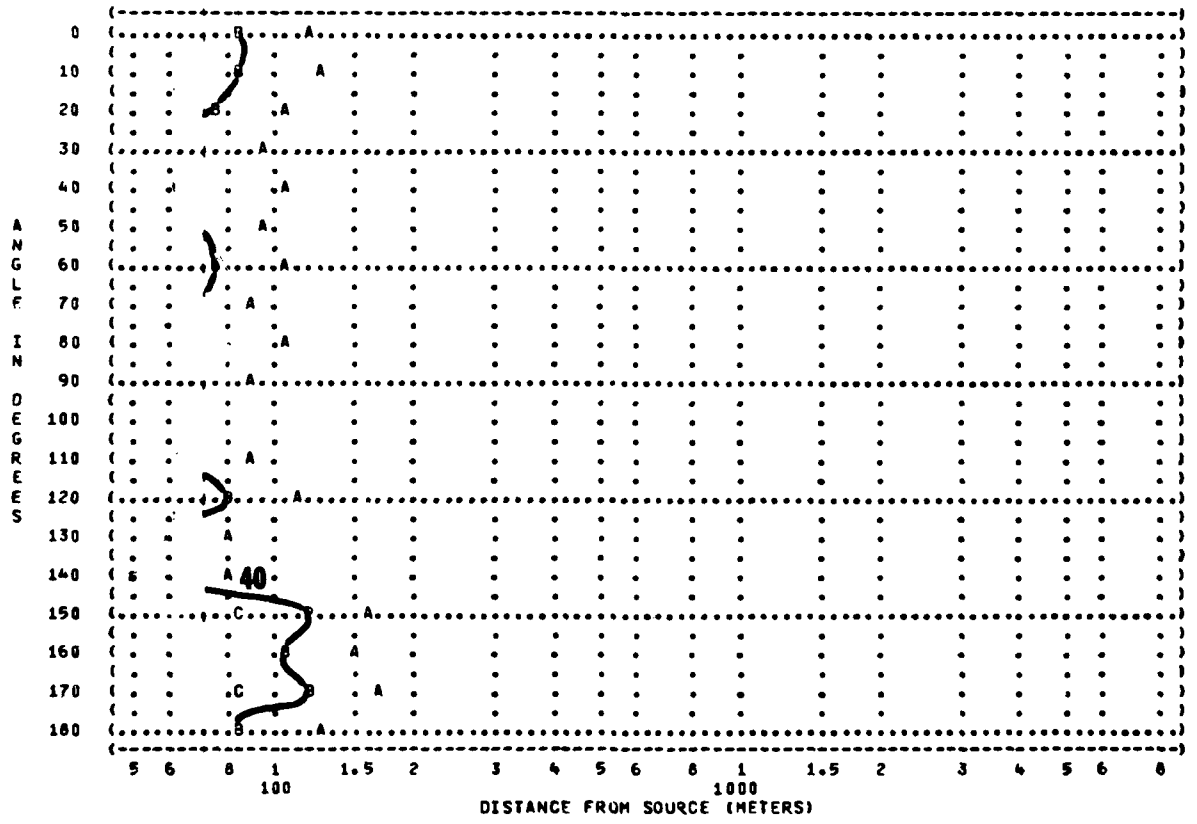
FIGURE: 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (L3) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 9F-707-081
RUN 01
26 OCT 81
PAGE 27



POINT	DB
A	35
B	48
C	45

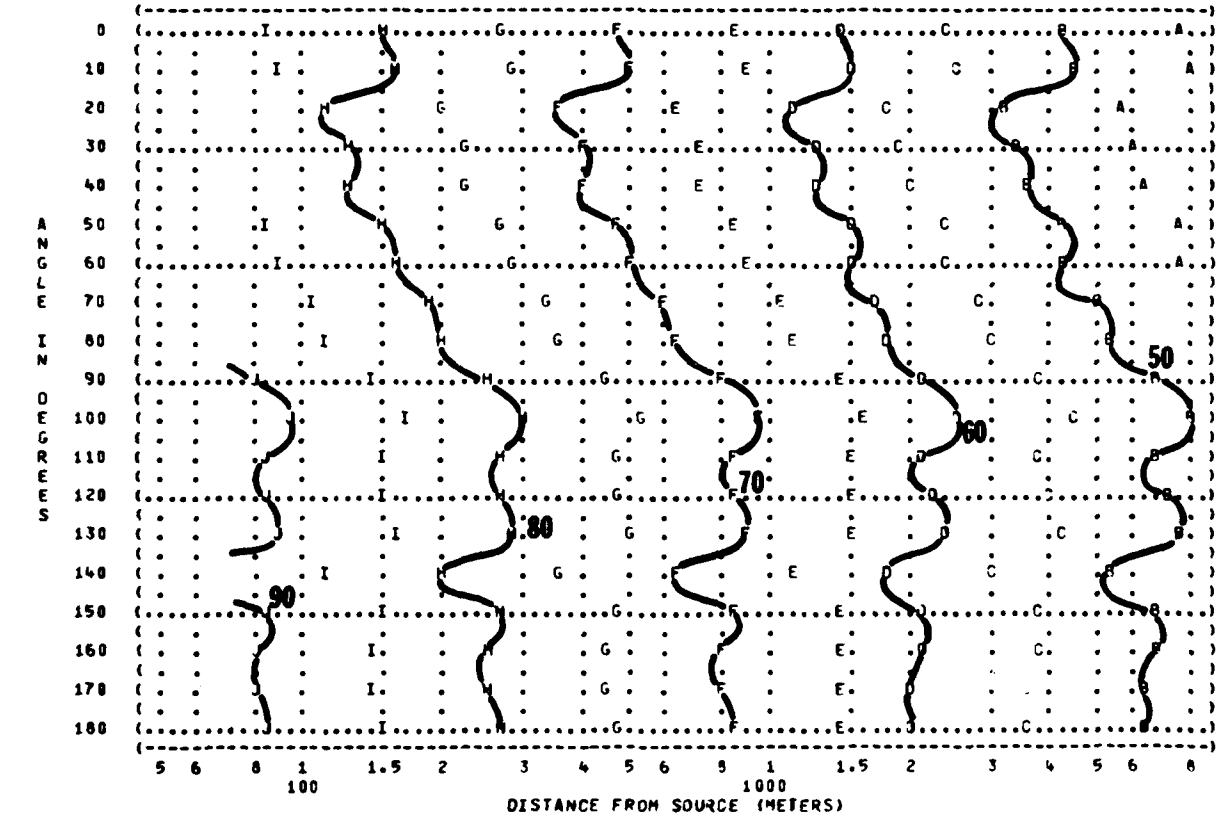
FIGURE 68 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-707-001 RUN 02 26 OCT 81 PAGE 18



POINT	DB
A	45
B	50
C	55
D	60
F	65
F	70
G	75
H	80
I	85
J	90

FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

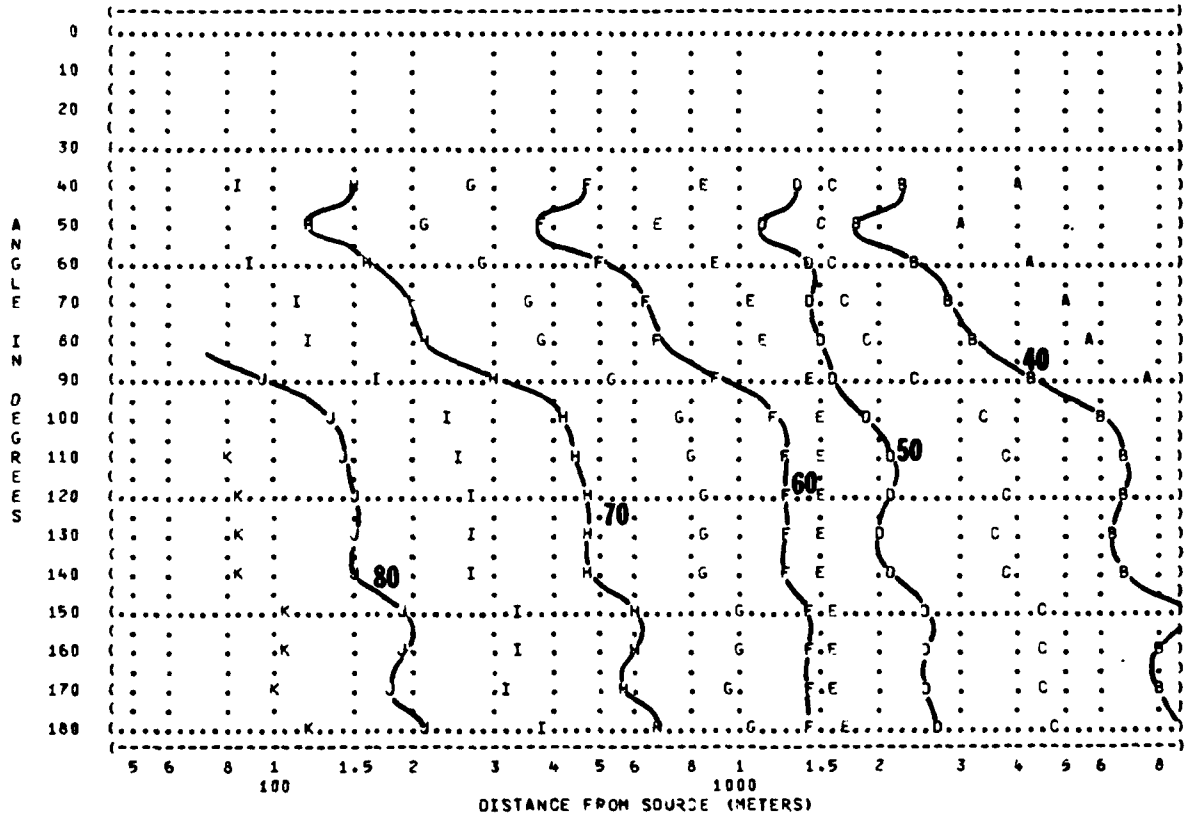
NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAP PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-707-001 RUN 02 26 OCT 81 PAGE 19

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85



FIGURE# 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .750 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 02
26 OCT 81
PAGE 20

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

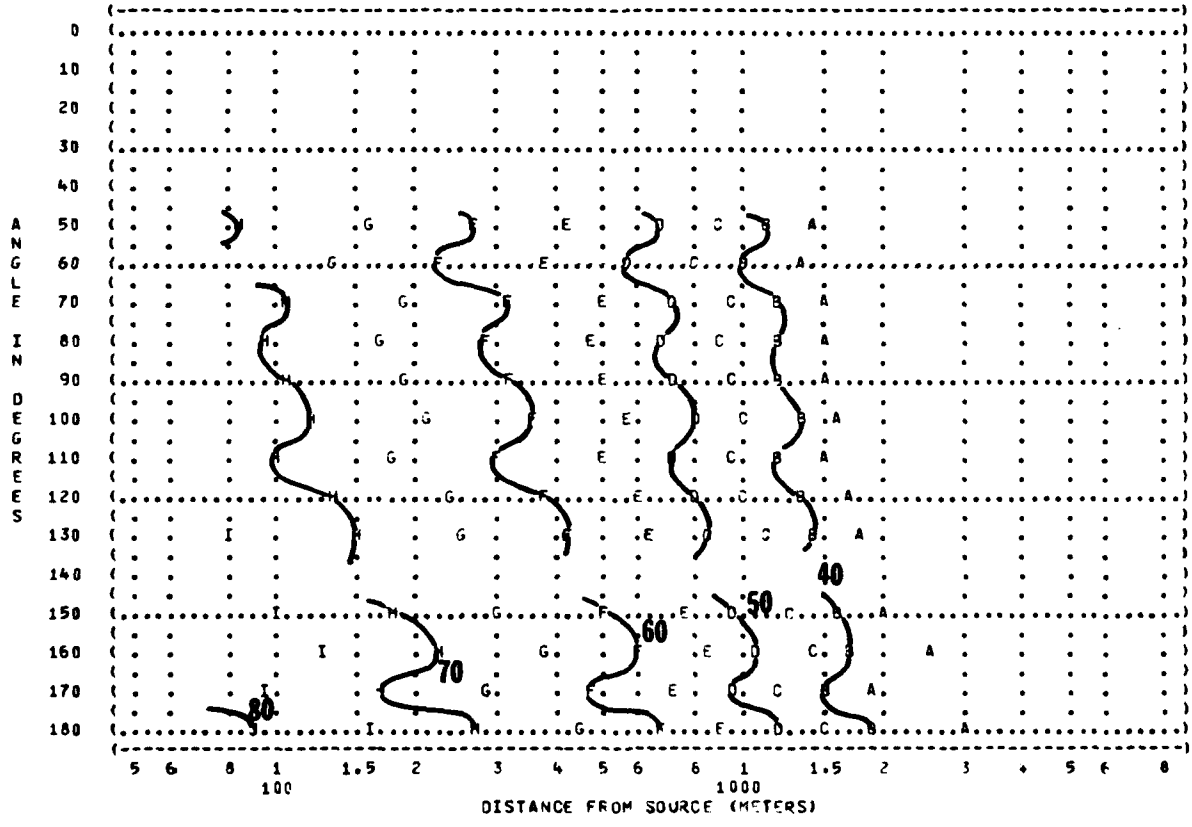


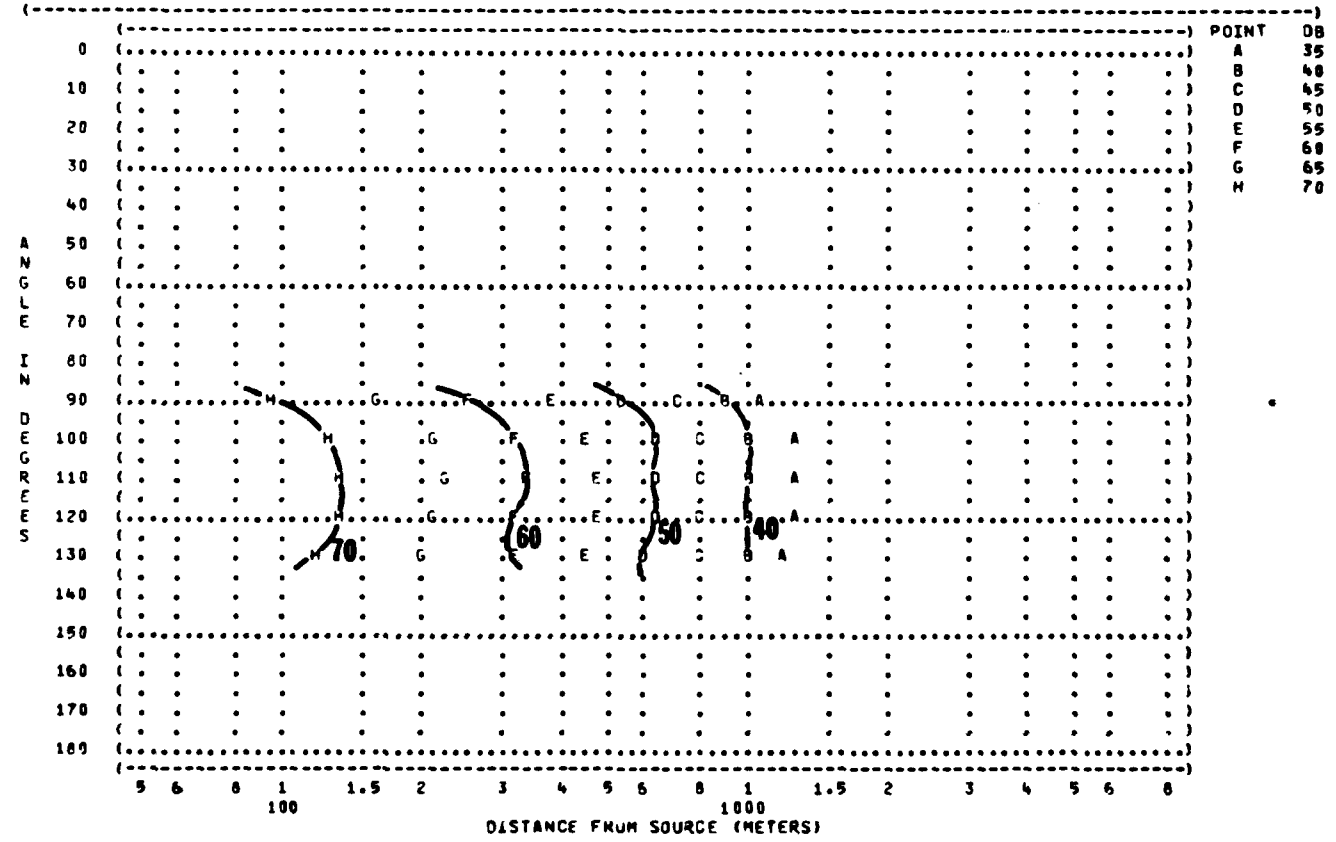
FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-707-001 RUN 02 26 OCT 81 PAGE 21



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-707-001 RUN 02 26 OCT 81

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

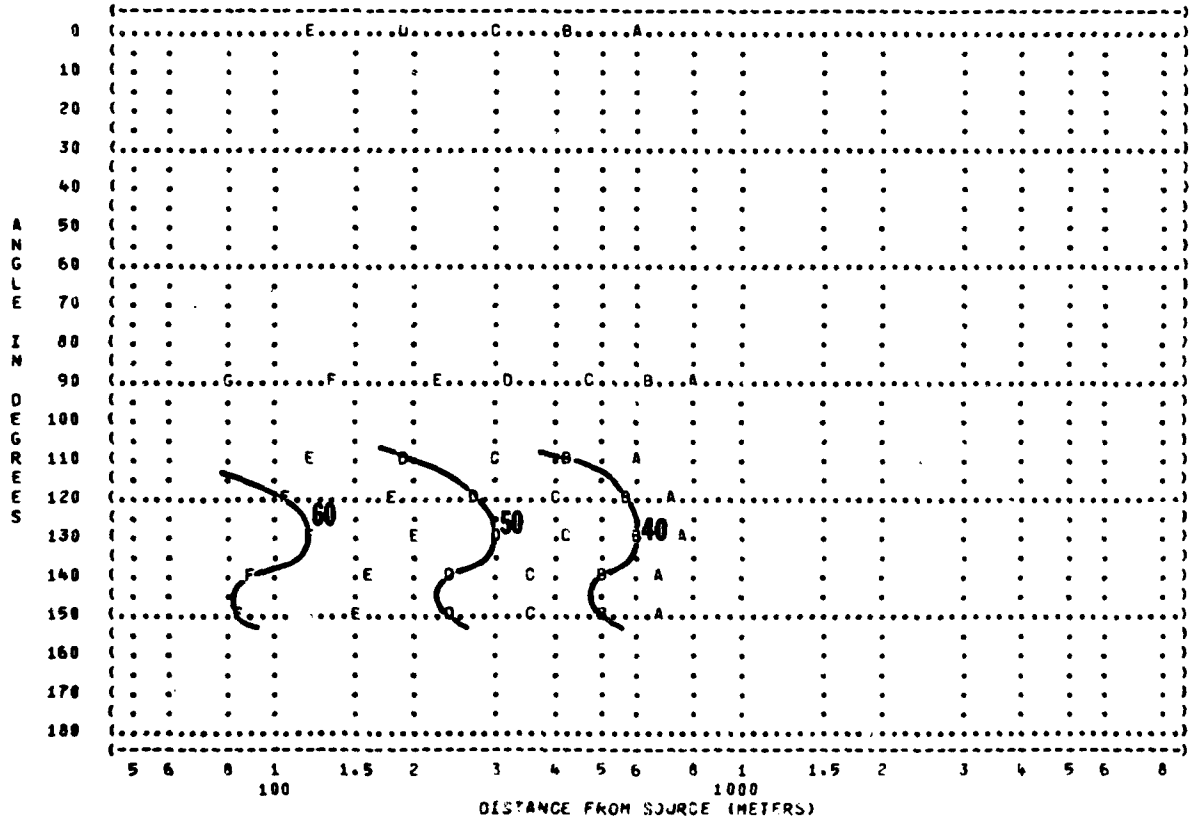


FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST AF-707-001
RUN 02
26 OCT 81
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NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

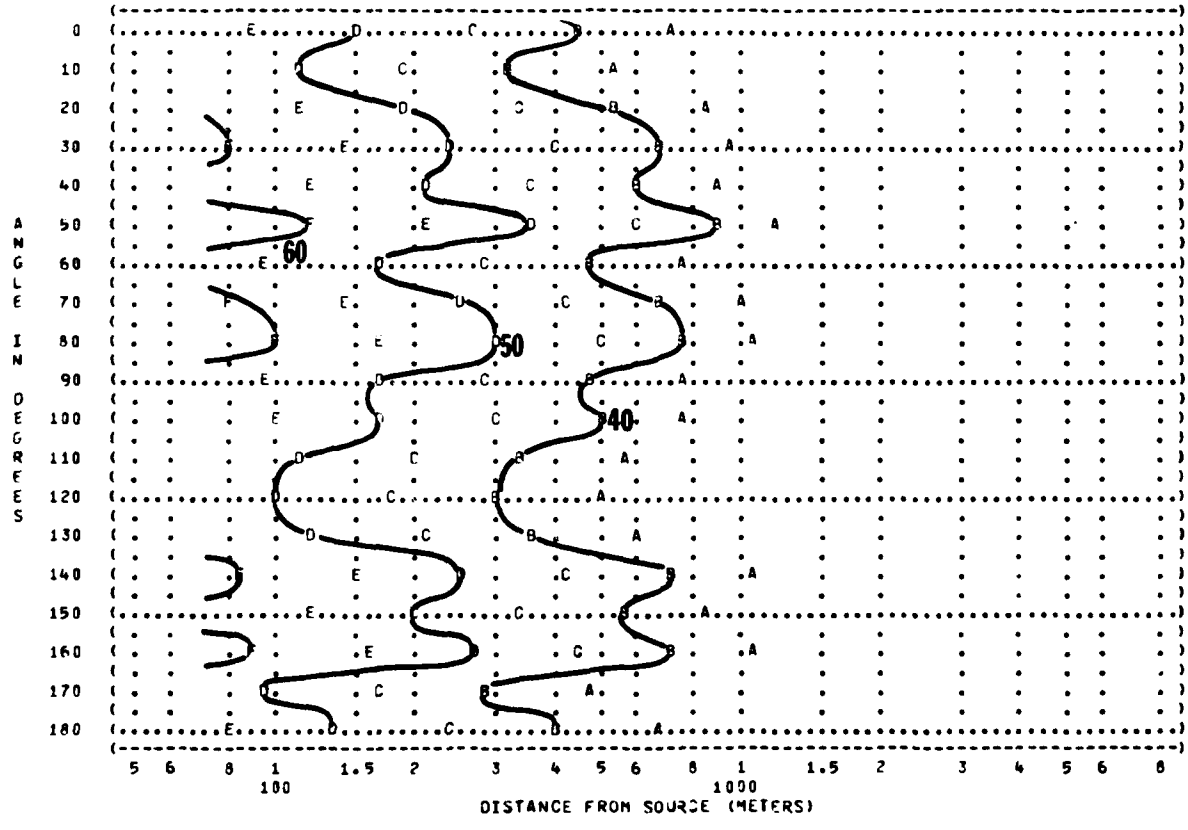


FIGURE: 6.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 02
26 OCT 81
PAGE 24

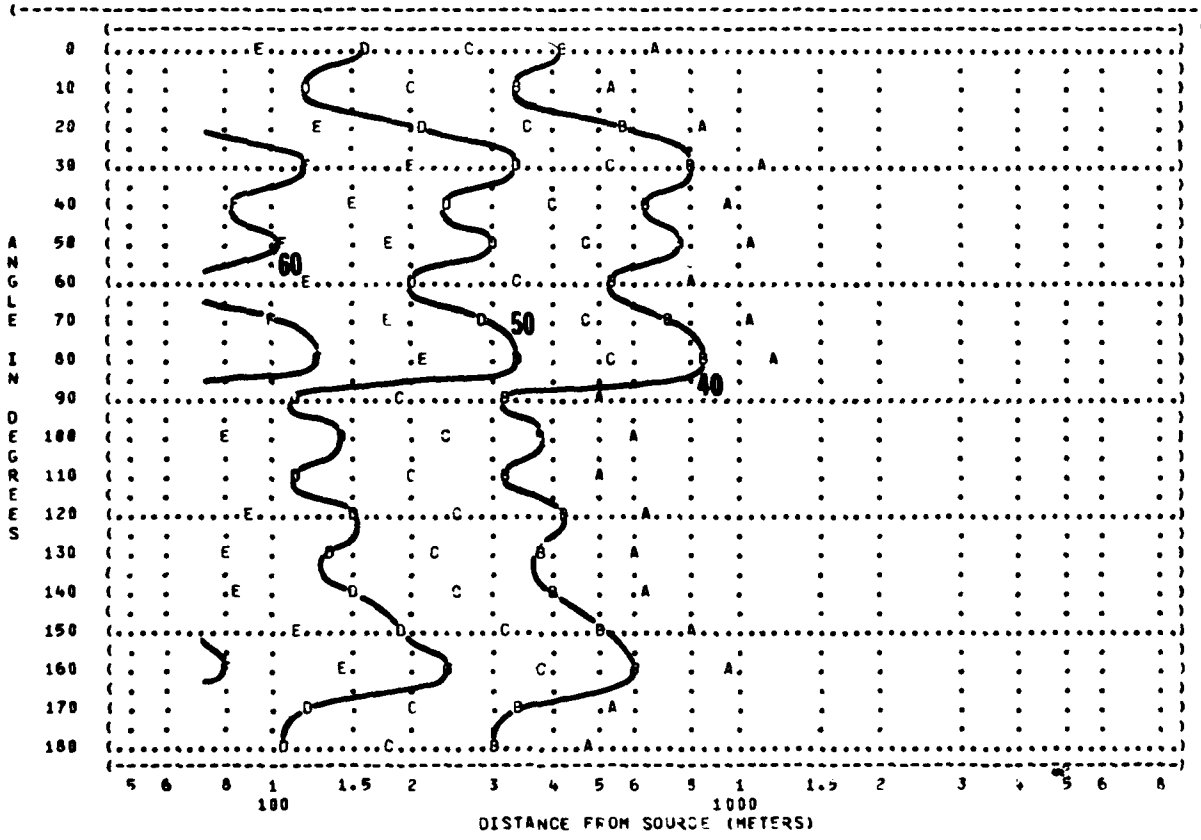


FIGURE: 6.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 02
26 OCT 81
PAGE 25

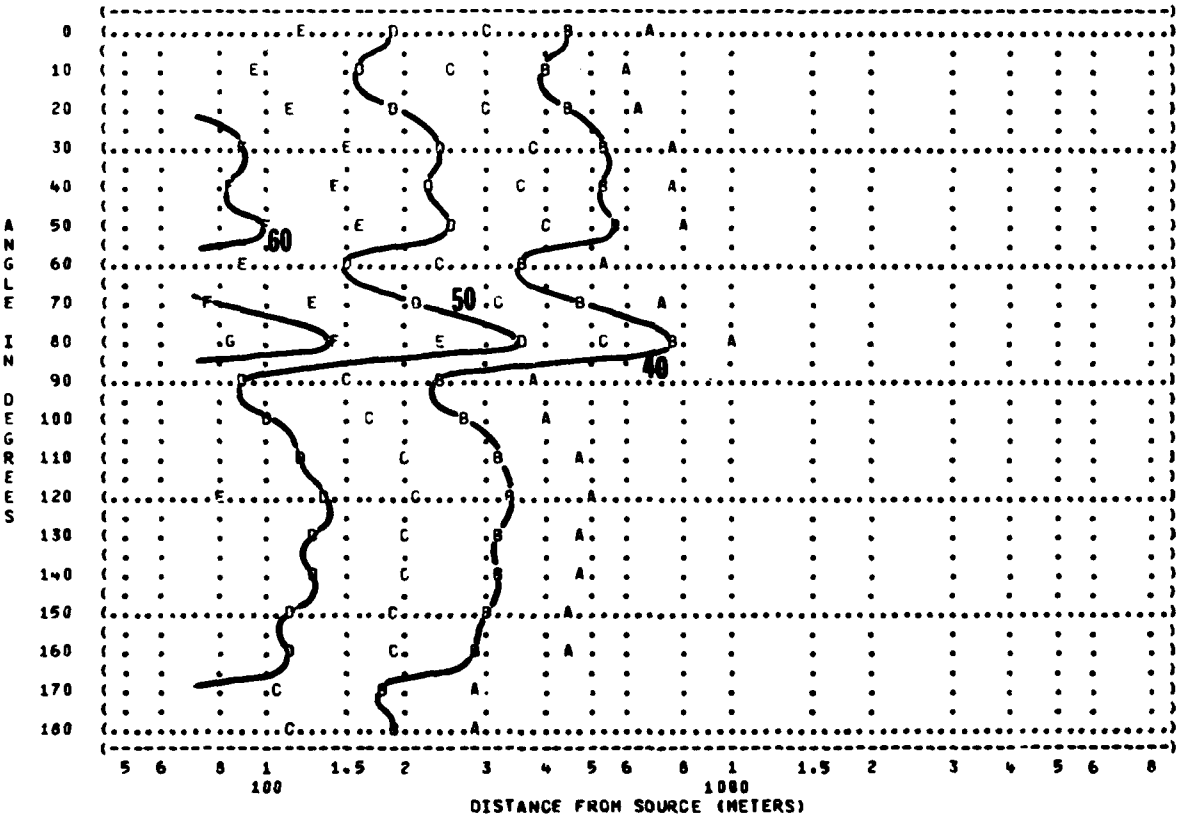


FIGURE: 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-707-001 RUN 02 26 OCT 81 PAGE 26

POINT	DB
A	35
B	40
C	45
D	50
E	55

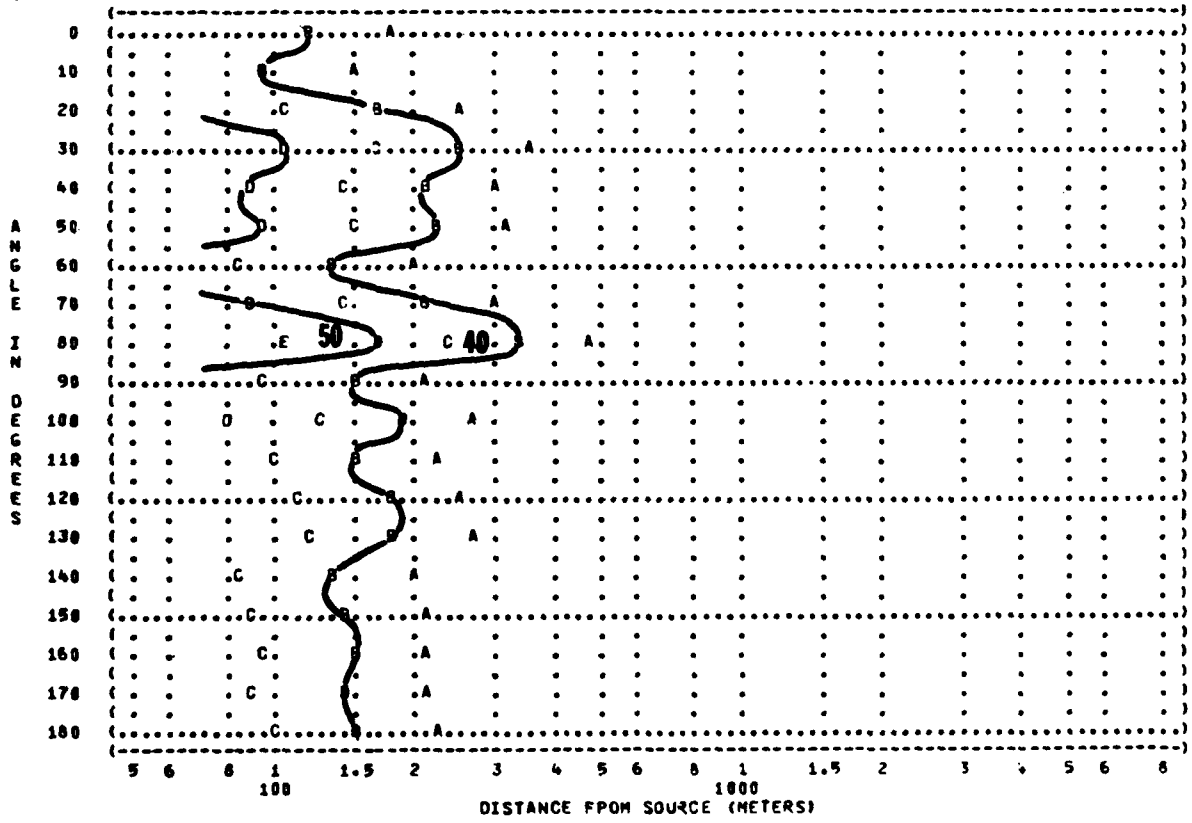


FIGURE: 6.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 9F-707-001
RUN 02
26 OCT 81
PAGE 27

POINT	DB
A	35
B	40
C	45

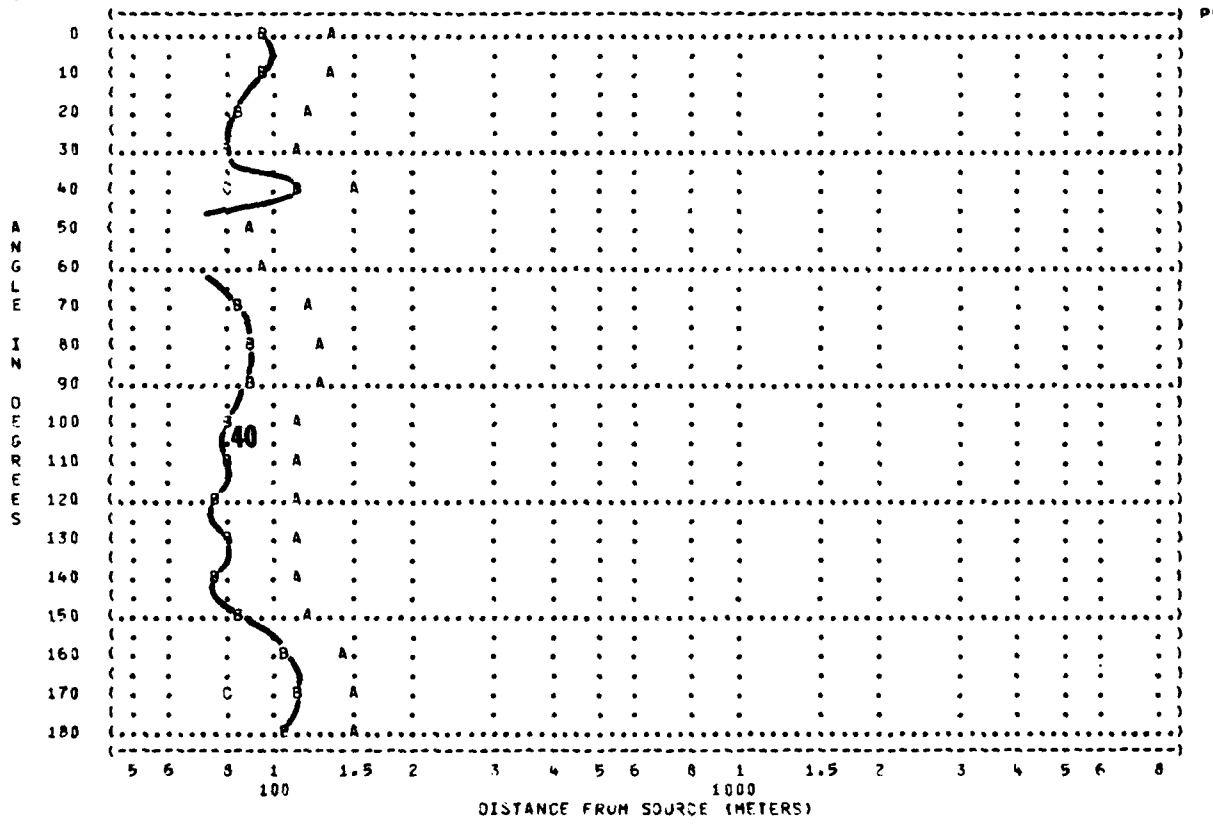


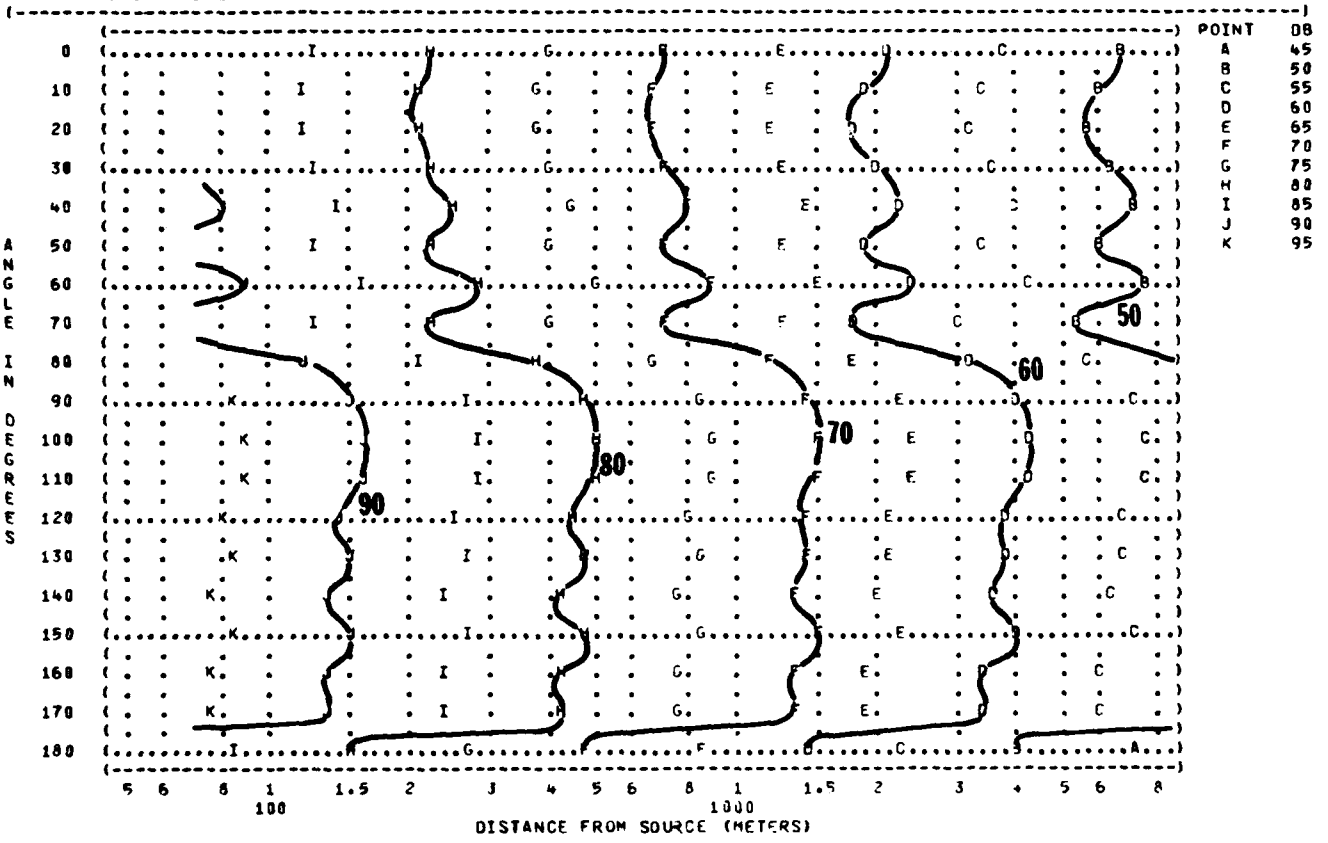
FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST 9F-707-001 RUN 03 26 OCT 81 PAGE 18

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %



POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95

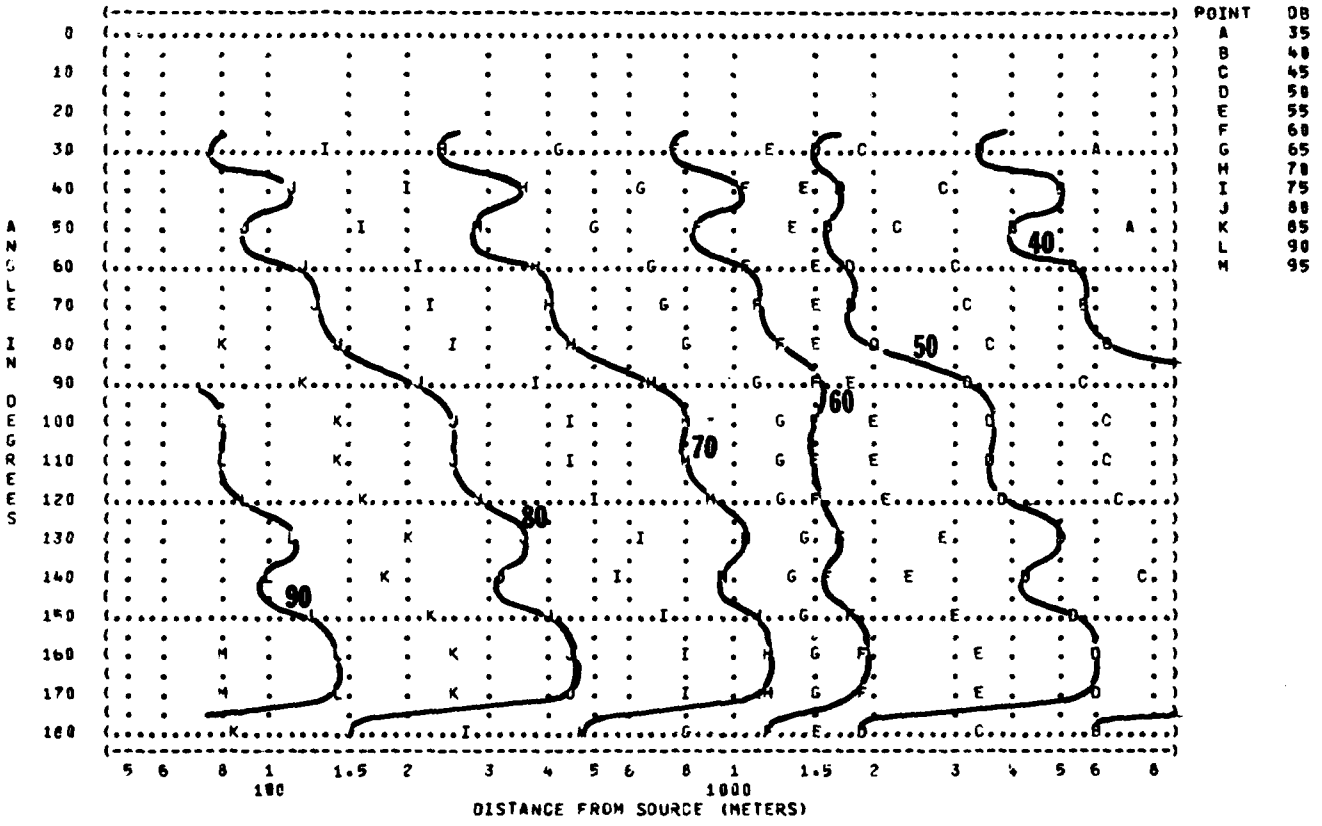
FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-707-001 RUN 03 26 OCT 81 PAGE 19



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95

FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:
F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE	MILITARY POWER (108%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-787-001
RUN 03
26 OCT 81
PAGE 28

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

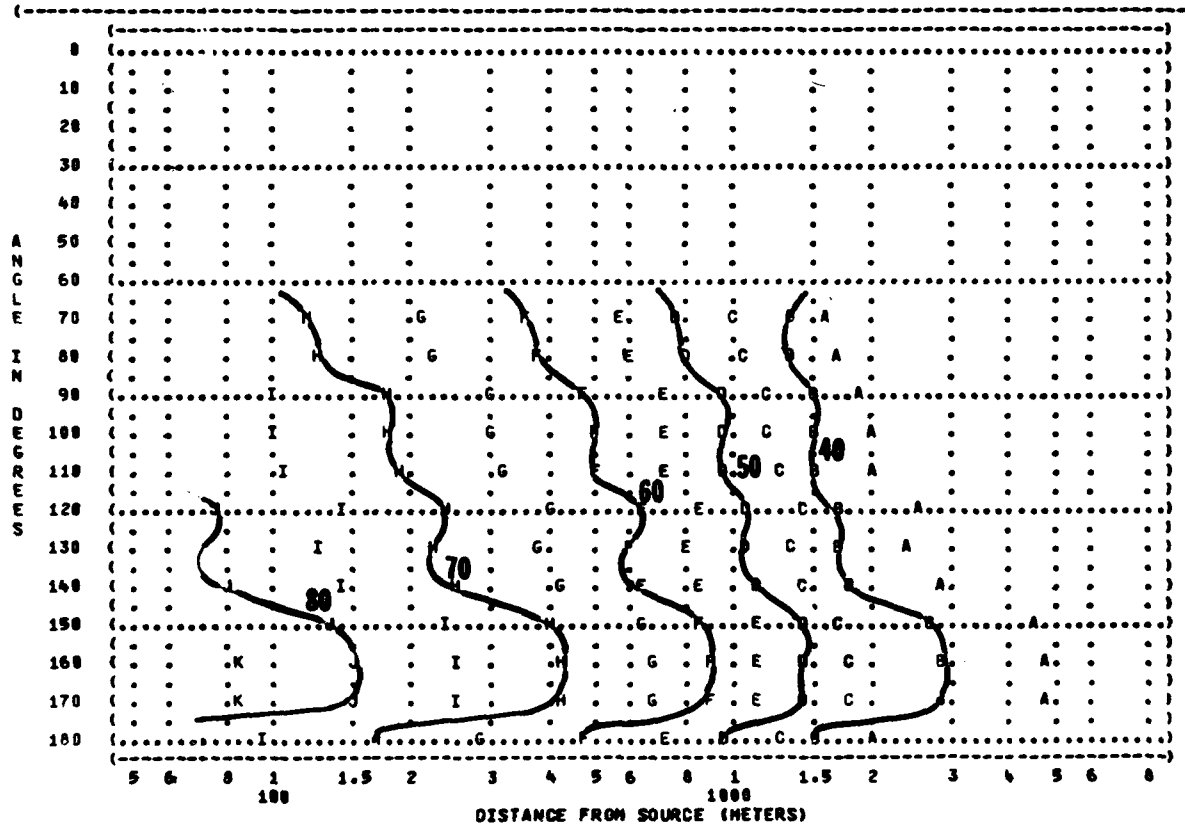


FIGURE 68 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT	OPERATION	METEOROLOGY
F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE	MILITARY POWER (100%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-787-881 RUN 03 26 OCT 81 PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

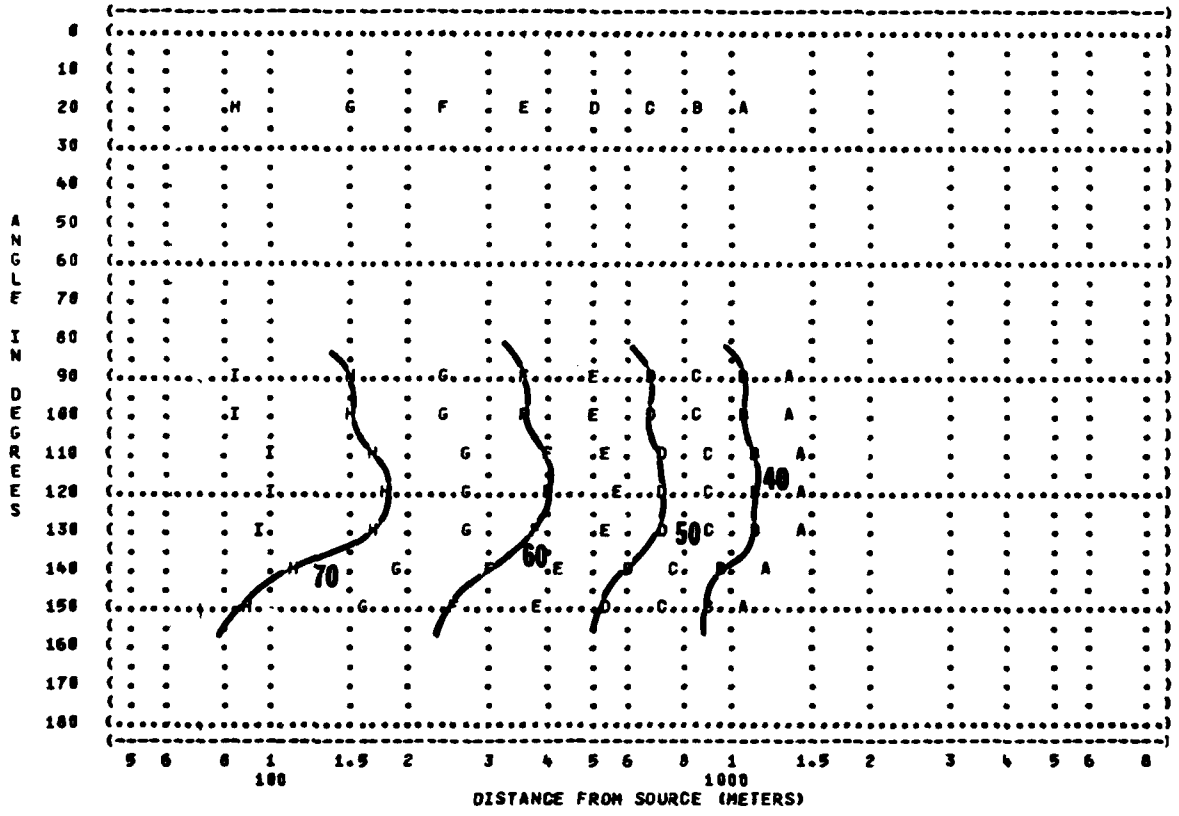


FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-707-001 RUN 03 26 OCT 81 PAGE 22

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

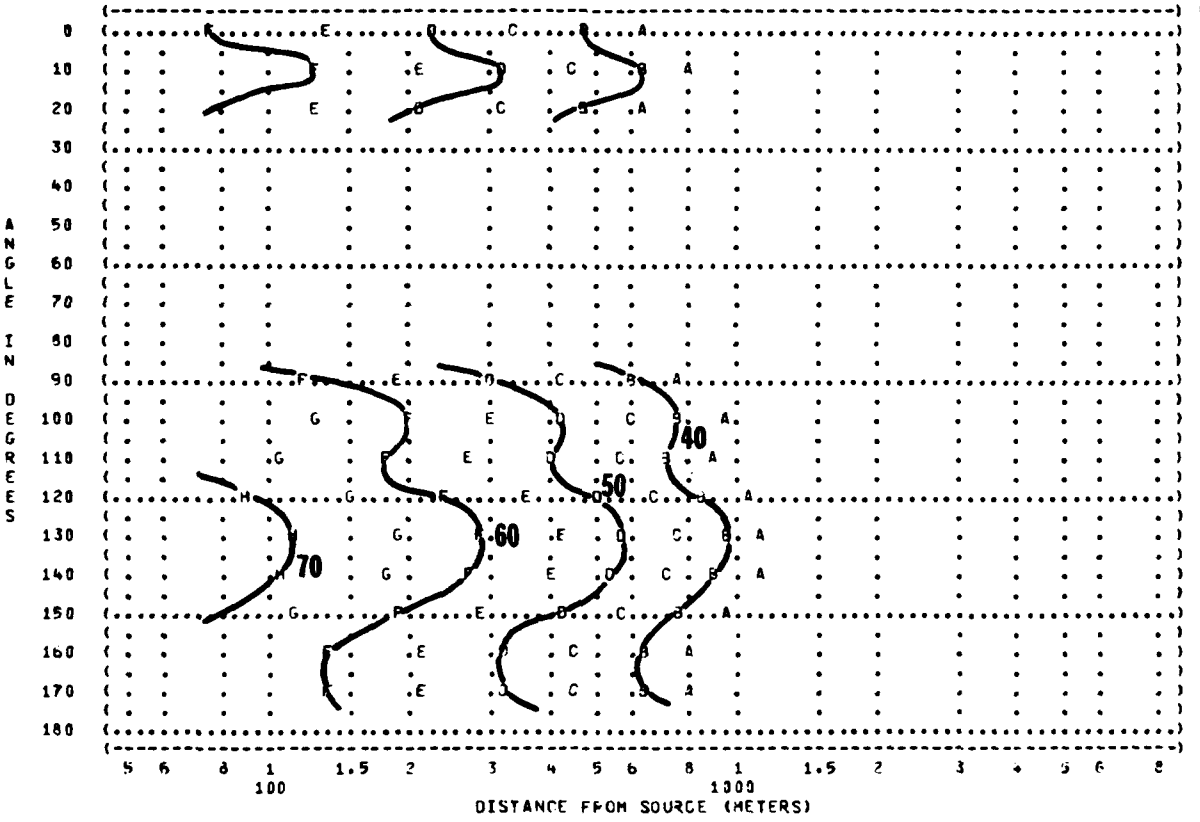


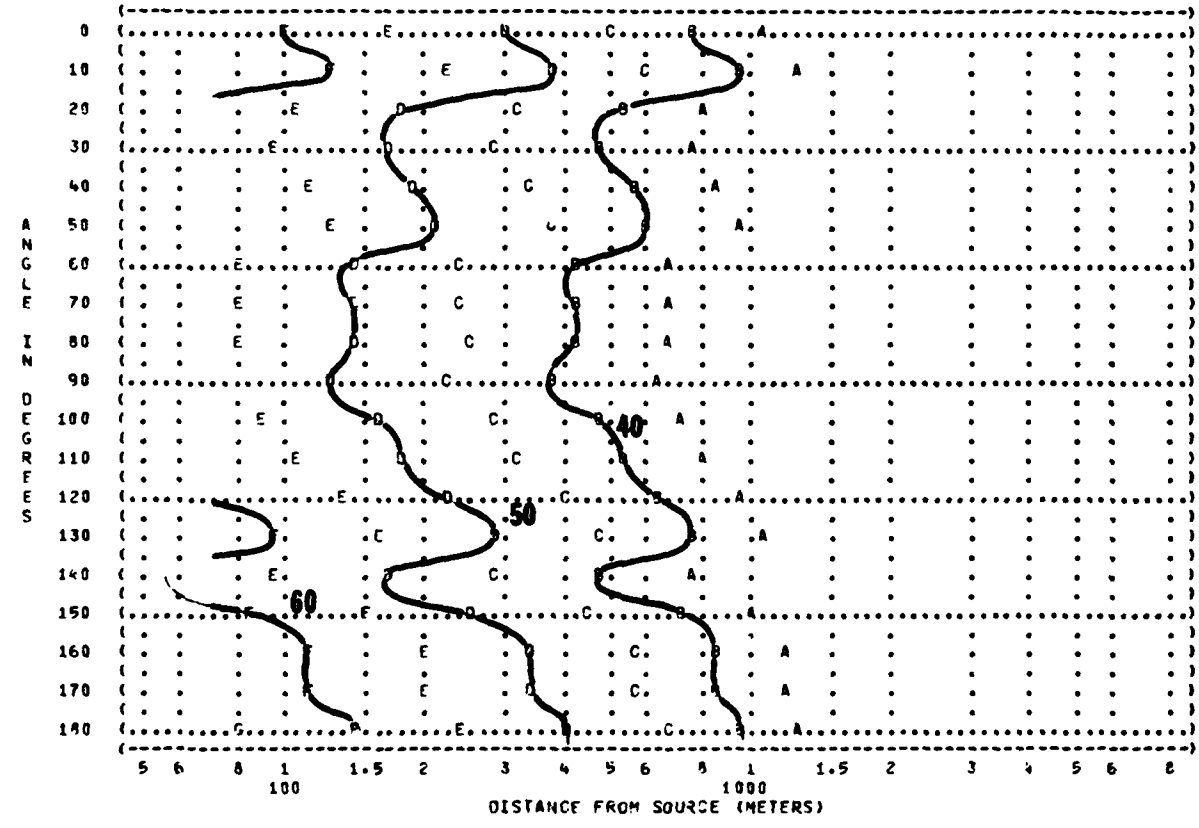
FIGURE: 6.8
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST RF-707-001
RUN 01
26 OCT 81
PAGE 23



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

FIGURE: 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST AF-707-081 RUN 03 26 OCT 81 PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

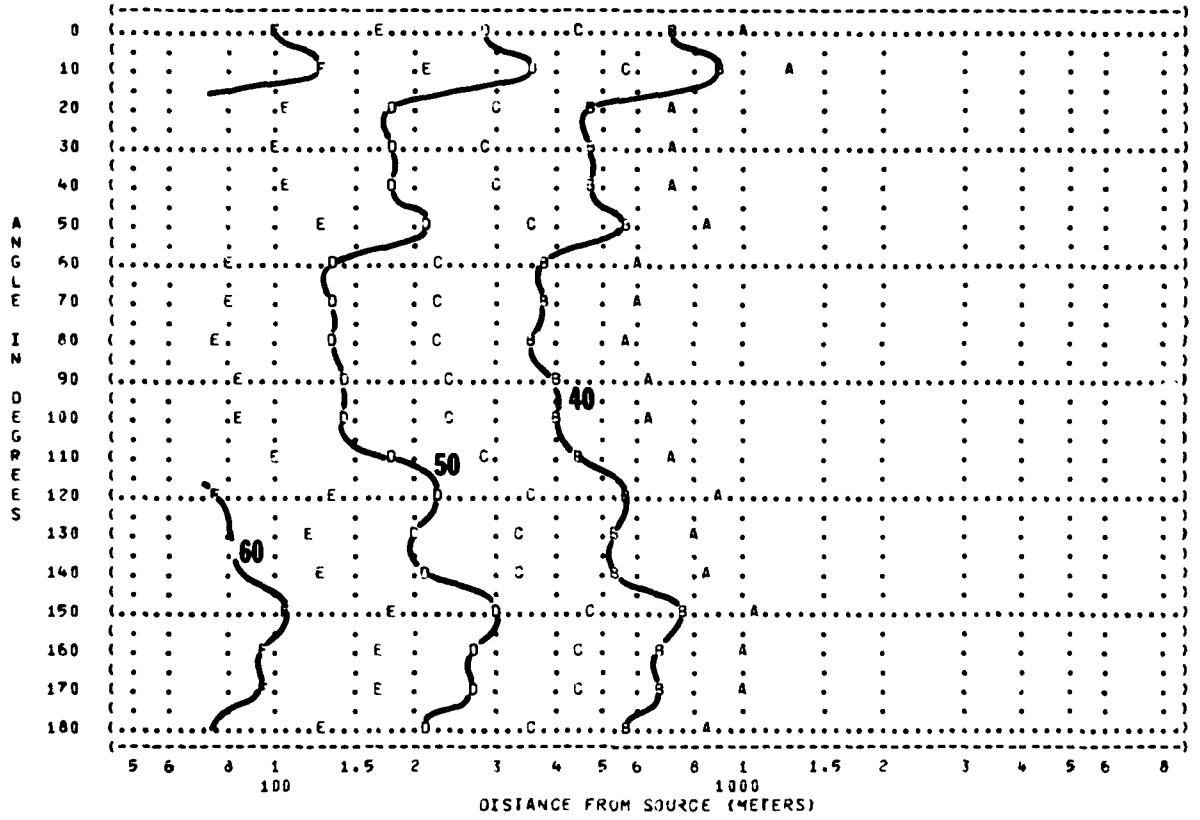


FIGURE: 6.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
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POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

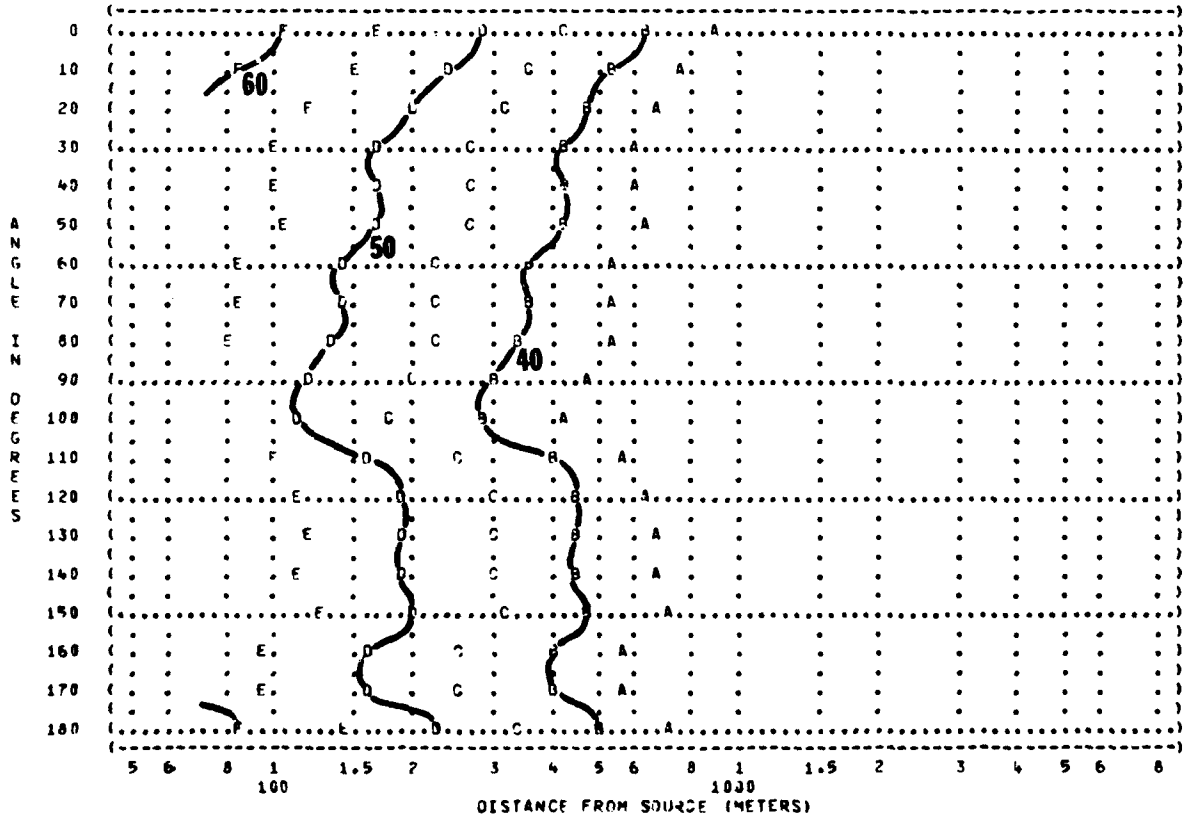


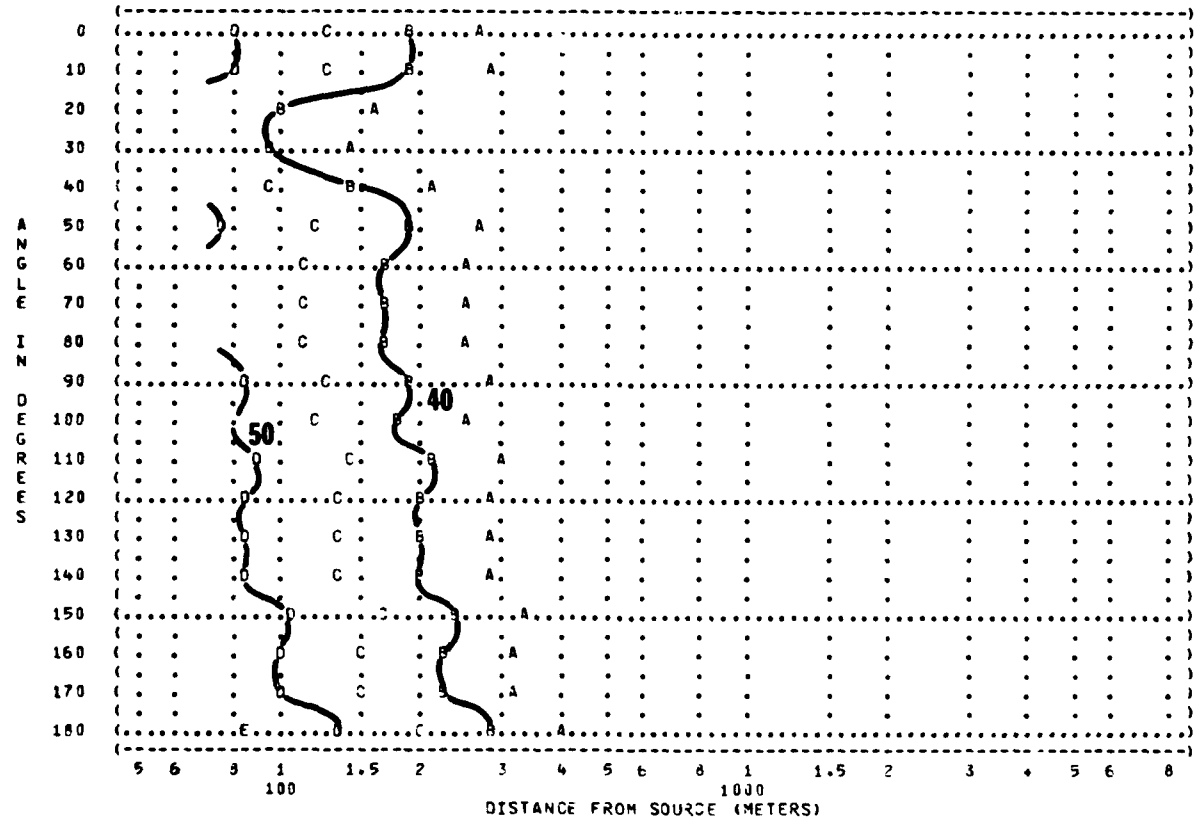
FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST RF-707-001 RUN 03 26 OCT 81 PAGE 26



POINT	DB
A	35
B	40
C	45
D	50
E	55

FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-707-001 RUN 03 26 OCT 81 PAGE 27

POINT	DB
A	35
B	40
C	45

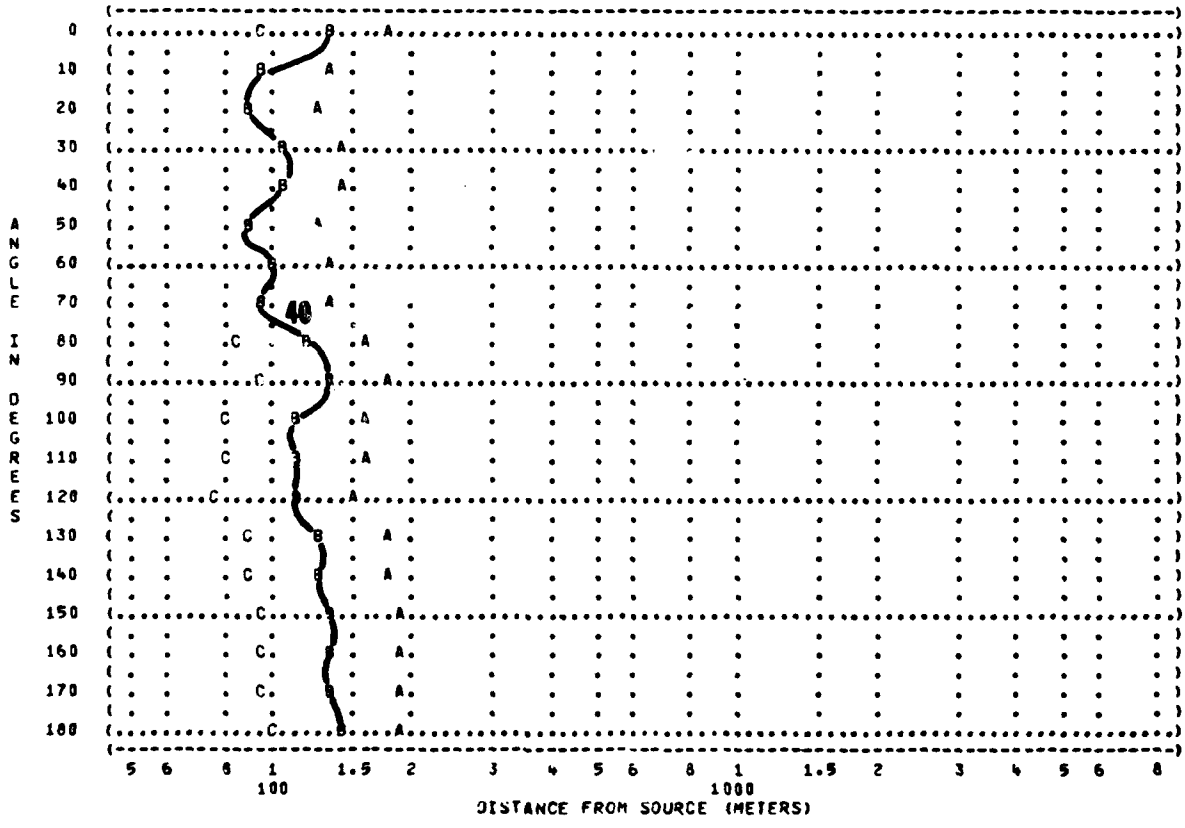


FIGURE: 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 04
26 OCT 81
PAGE 18

POINT	DB
A	55
B	60
C	65
D	70
E	75
F	80
G	85
H	90
I	95
J	100

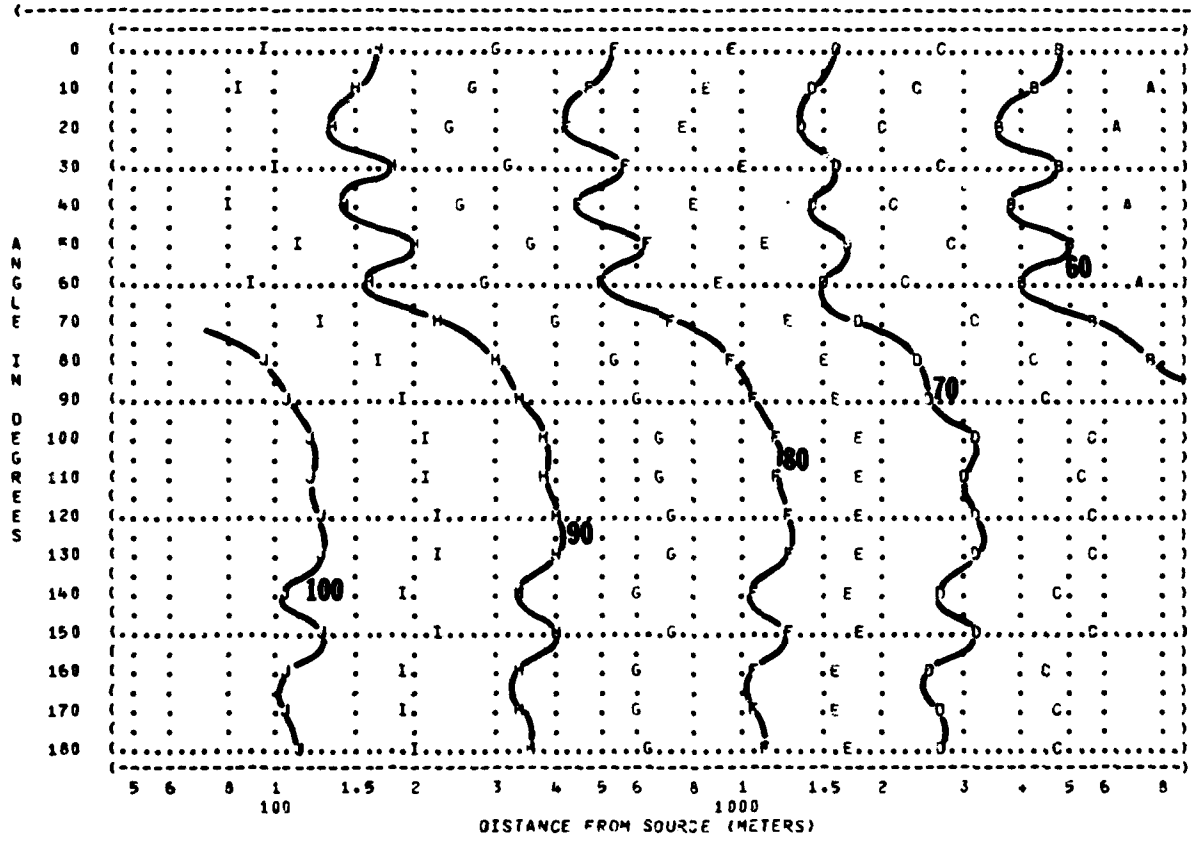


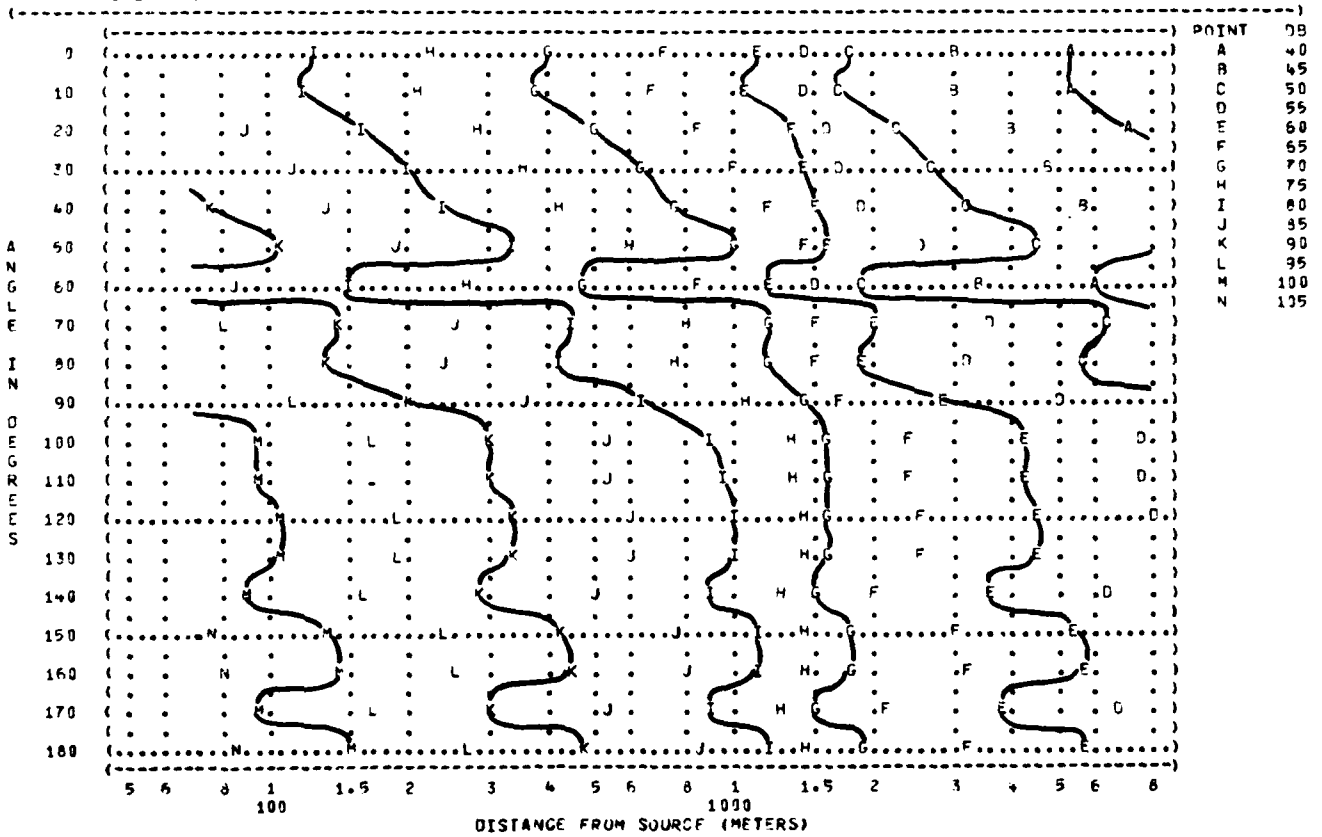
FIGURE: SOUND PRESSURE LEVEL (SPL)
6.8 EQUAL LEVEL CONTOURS (dB)
31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-10E AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-707-001
RUN 04
26 OCT 81
PAGE 19



POINT	dB
A	40
B	45
C	50
D	55
E	60
F	65
G	70
H	75
I	80
J	85
K	90
L	95
M	100
N	105

FIGURE: 6.8
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 04
26 OCT 81
PAGE 20

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95
N	130

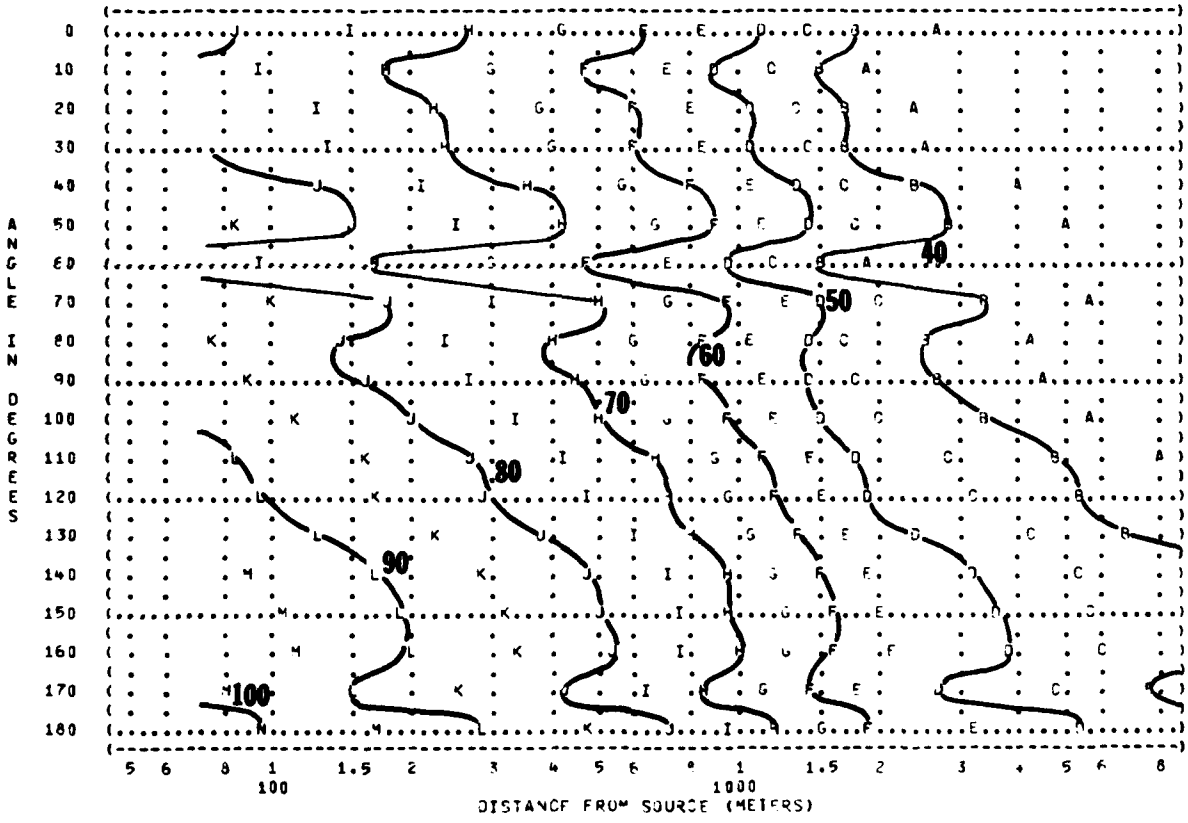


FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-707-001 RUN 04 26 OCT 71 PAGE 21

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

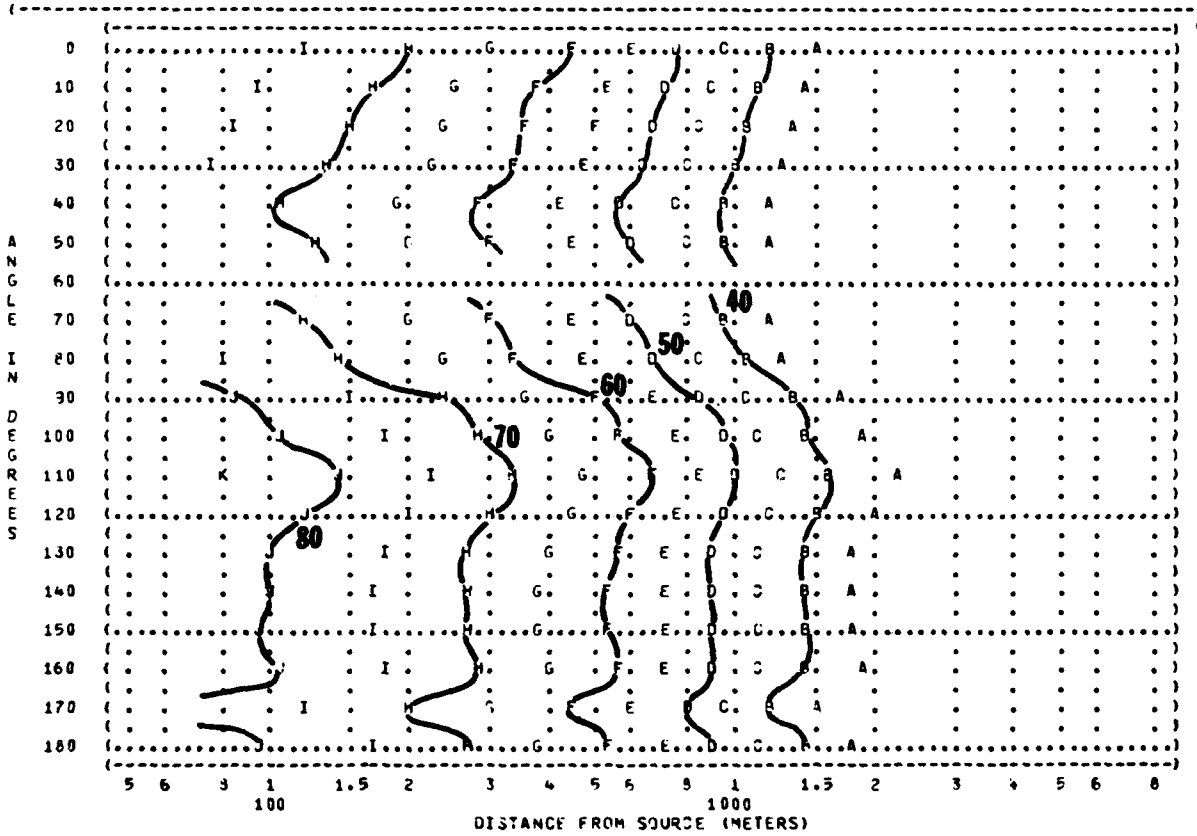


FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 / TEST RF-707-001 / RUN 04 / 26 OCT 91 / PAGE 22

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .750 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

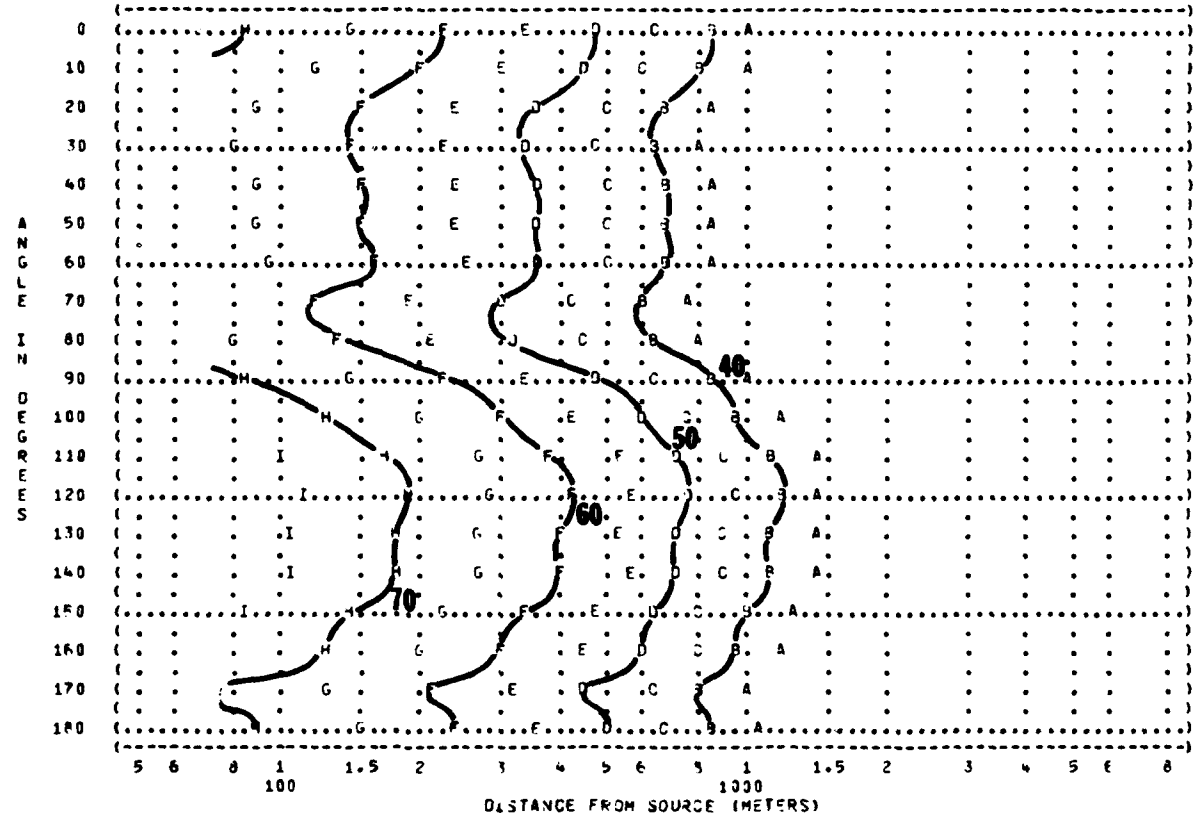


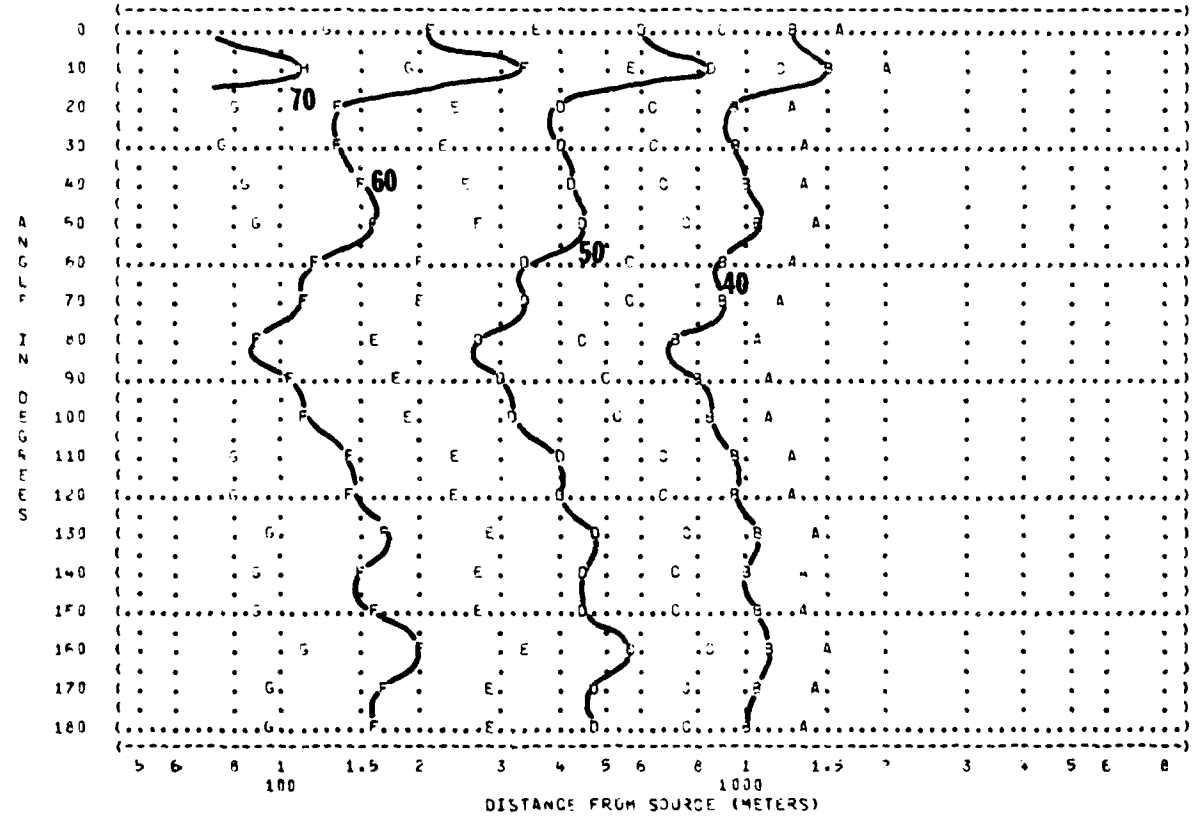
FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 04
26 OCT 81
PAGE 23



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

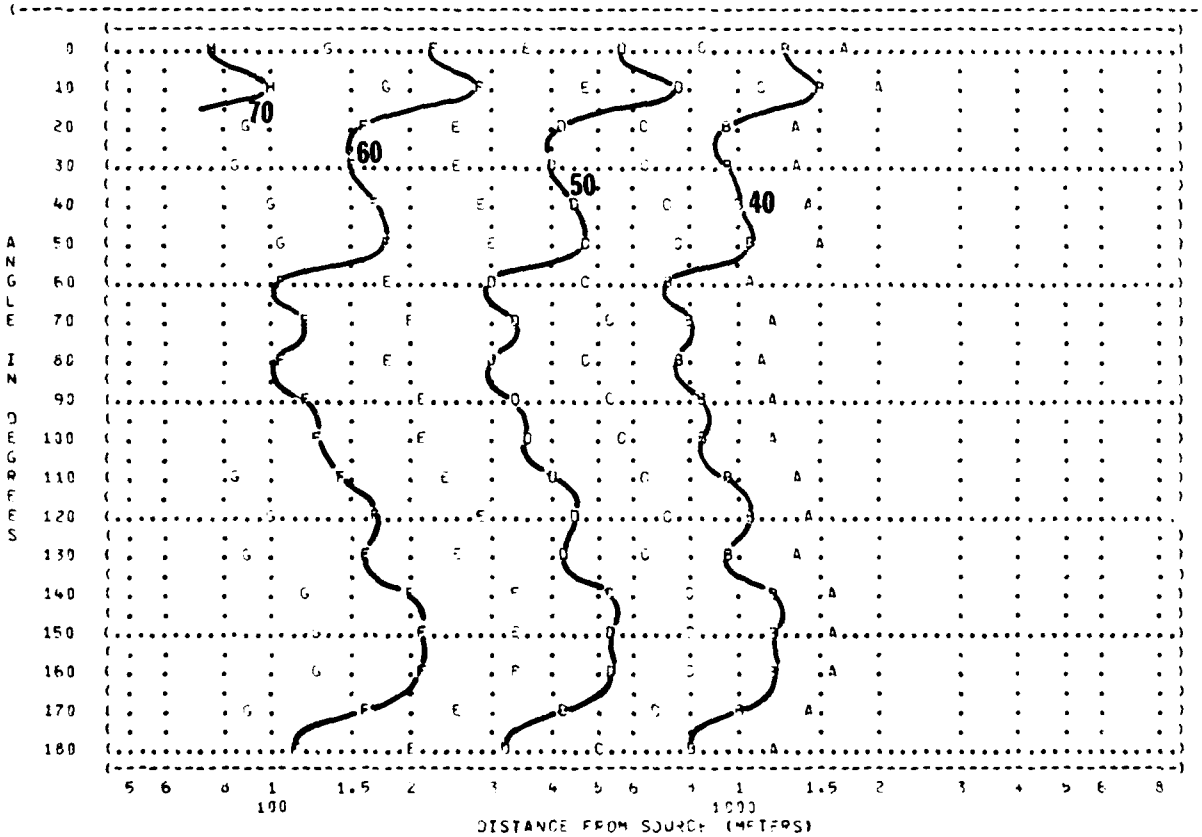
FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (G3) 1000 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST RF-707-001 RUN 04 26 OCT 81 PAGE 24

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 72 %



POINT
A 35
B 40
C 45
D 50
E 55
F 60
G 65
H 70

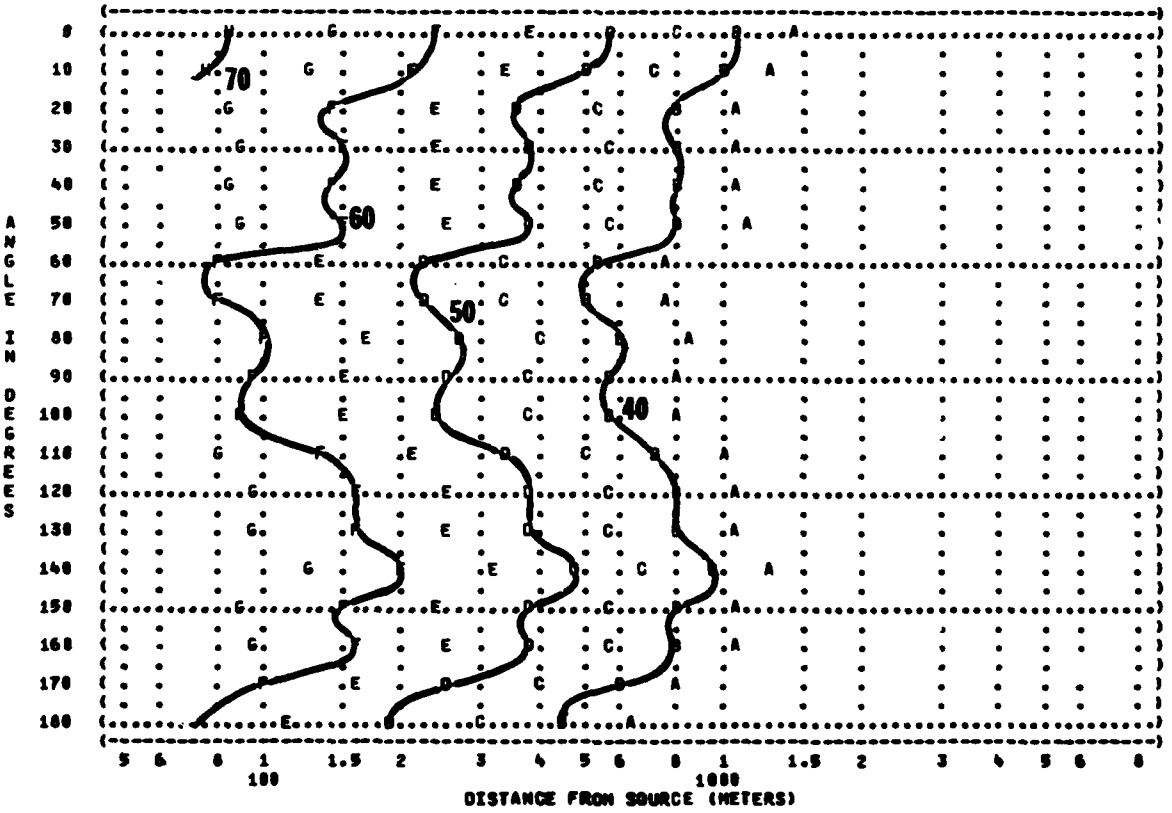
FIGURE 6.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C, BAR PRESS = .760 M HG, REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4, TEST BF-787-001, RUN 04, 26 OCT 81, PAGE 25



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

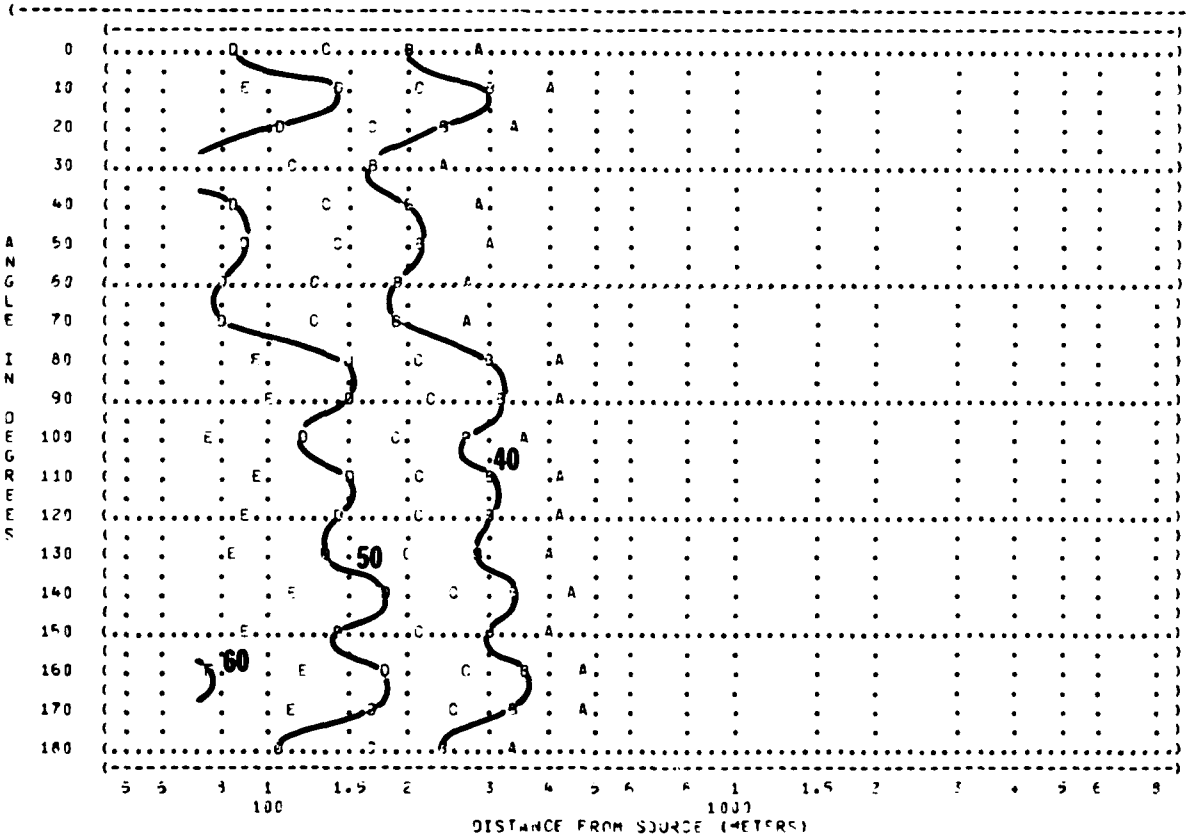
NOISE SOURCE/SUBJECT:
F-106 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J75-P-17 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-707-001
RUN 04
26 OCT A1
PAGE 26

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60



6.4

FIGURE: 6.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J75-P-17 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-787-881 RUN 04 26 OCT 81

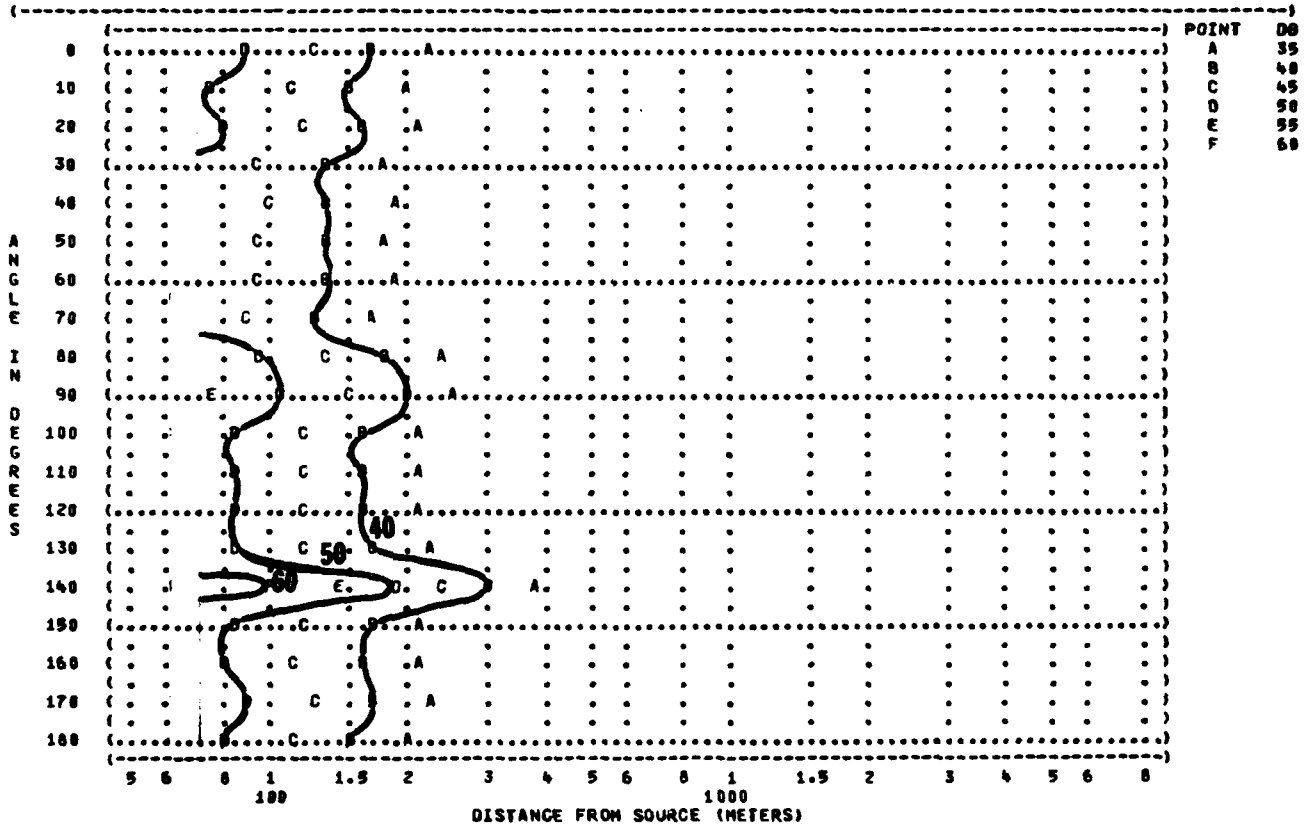


TABLE 7.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS F-111F AIRCRAFT IN THE ASE-TEXAS INC. HUSH-HOUSE, GROUND RUNUP KELLY AFB TEXAS, TEST #BF-708-001

Aircraft Engine Operation	Single Engine	
80%	80	% RPM
	2700	LBS/HR FF
	768	TIT
	1.38	EPR
85%	85	% RPM
	4100	LBS/HR FF
	868	TIT
	1.61	EPR
95%	95	% RPM
	7800	LBS/HR FF
	1108	TIT
	2.20	EPR
Military Power	96	% RPM
	8200	LBS/HR FF
	1128	TIT
	2.27	EPR
Afterburner Power	96	% RPM
	49,800	LBS/HR FF
	1158	TIT
	2.39	EPR
Meteorology		
Temperature	29	C
Bar Pressure	743	M HG
Rel Humidity	58	%
Wind - Speed	3	M/Sec (6 Kts)
- Direction	180	Deg

TABLE 7.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 01
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 29 C
BAR PRESS = .743 M HG
REL HUMID = 58 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	73<	73<	68<	71<	71<	75<	73<	73<	75<	74<	76<	76<	74<	71<	71<	71<	71<	71<	71<
16	71<	76	70<	73<	70<	75	74<	77	77	76	78	78	76	77	77	77	77	77	77
20	69<	68<	69<	70<	69<	72<	75	74<	76	75	75	76	75	75	75	75	75	75	75
25					67<	66<	65<	66<	69<	69<	71<	71<	71<	72<	72<	72<	72<	72<	72<
31.5				63<	63<	66<	64<	66<	67<	64<	65<	67<	68<	69<	69<	69<	69<	69<	69<
40				63<	64<		64<	68<	64<				63<	66<	66<	66<	66<	66<	66<
50								66<	64<					63<	63<	63<	63<	63<	63<
63								64<			61<	60<	62<	62<	62<	62<	62<	62<	62<
80																			
100																			
125																			
160																			
200														55<	55<	55<	55<	55<	55<
250																			
315					49<						49<								
400	45<			44<	48<						44<			47<	47<	47<	47<	47<	47<
500	47<				48<									48<	48<	48<	48<	48<	48<
630	47<				50<									46<	48<	48<	48<	48<	48<
800	48<				47<									46<	48<	48<	48<	48<	48<
1000	49<																		
1250	51<	47<		49<	48<	48<													
1600	53<	50<	48<	52<	48<	51<	48<	43<						46<	46<	46<	46<	46<	46<
2000	48<	48<	48<	49<	47<	46<	44<	40<						42<	42<	42<	42<	42<	42<
2500	47<	48<	48	50	48	47	45<	42<	40<	39<	37<			40<	40<	40<	40<	40<	40<
3150	47	42<	45<	45<	43<	43<	43<	45<	44<	40<	35<	35<	34<	39<	39<	39<	39<	39<	39<
4000	38<	33<	37<	36<	33<	32<	34<	37<	36<	34<				35<	35<	35<	35<	35<	35<
5000	43	39<	39<	42	38<	38<	38<	39<	37<	34<				34<	34<	34<	34<	34<	34<
6300	43	40	40	44	39	40	39	40	33<	35<	29<	29<		33<	33<	33<	33<	33<	33<
8000	42	43	40	43	38<	38<	38<	38<	37<	34<	29<	29<		31<	31<	31<	31<	31<	31<
10000	48	40	34<	40	35<	32<	33<	35<	34<	31<				28<	28<	28<	28<	28<	28<
OVERALL	76	78	74	77	76	80	79	81	81	80	82	82	81	81	81	81	81	81	81

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 72

MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-881
RUN 02
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 29 C
BAR PRESS = .743 M HG
REL HUMID = 58 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	79	78	76<	76<	76<	79	71<	81	77<	80	79	79	82	80	80	80	80	80	80
16	77	74<	76	76	76	77	77	80	82	81	84	83	82	82	82	82	82	82	82
20	71<	73<	75	73<	74<	75	79	79	80	80	82	81	82	81	81	81	81	81	81
25		65<	65<	66<	69<	70<	67<	72<	75	75	77	77	78	77	77	77	77	77	77
31.5	62<	61<	61<	63<	67<	67<	67<	69<	59<	69<	70<	74	75	75	75	75	75	75	75
40	63<	64<	63<	64<	66<	66<	67<	70<	68<	67<	67<	67<	71<	71<	71<	71<	71<	71<	71<
50					64<		67<	68<	58<	64<	63<	66<	65<	68<	68<	68<	68<	68<	68<
63					60<		62<	64<	63<	63<	66<	64<	64<	63<	63<	63<	63<	63<	63<
80									65<		68<								
100																			
125																			
160																			
200									57<		58<		63<						
250									55<										
315							51<	53<	55<										
400	46<						47<	48<	54<				45<						
500	47<		45<			45<	48<	46<	53<				47<						
630							47<		48<				47<						
800							50<												
1000																			
1250	50<	48<	46<				48<												
1600	52<	50<	50<	48<	46<	47<	47<						44<	43<	43<	43<	43<	43<	43<
2000	48<	49<	49<	49<	46<	44<	46<						42<	42<	42<	42<	42<	42<	42<
2500	44<	48	49	49	48	44<	44<	38<	38<	38<	36<	38<	44<	40<	40<	40<	40<	40<	40<
3150	42<	42<	43<	40<	40<	38<	44<	42<	41<	38<	34<	37<	42<	38<	38<	38<	38<	38<	38<
4000	37<	37<	40<	36<	35<	34<	37<	40<	39<	36<	33<	34<	38<	36<	36<	36<	36<	36<	36<
5000	40<	39<	40<	38<	35<	35<	40<	38<	38<	35<	33<	37<	38<	35<	35<	35<	35<	35<	35<
6300	41	40	40	36<	34<	35<	38<	37<	37<	34<	32<	33<	36<	34<	34<	34<	34<	34<	34<
8000	41	42	41	38<	39<	36<	42	49	40	33<	32<	34<	34<	32<	32<	32<	32<	32<	32<
10000	35<	37<	35<	33<	34<	32<	36<	30<	34<	31<	29<	30<	32<	29<	29<	29<	29<	29<	29<
OVERALL	82	81	80	81	81	83	82	85	86	86	87	87	89	87	87	87	87	87	87

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 7.2

MEASURED SOUND PRESSURE LEVEL (Dā)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 29 C
BAR PRESS = .743 M HG
REL HUMID = 58 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 03
26 OCT 81
PAGE 2

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	83	83	83	84	82	82	80	85	84	87	88	84	87	87	87	87	87	87	87
16	83	86	81	83	84	85	83	86	87	88	88	89	87	87	87	87	87	87	87
20	79	82	84	82	84	85	84	86	86	89	87	89	90	89	89	89	89	89	89
25	69<	71<	76	77	76	74	81	80	81	85	85	86	83	87	87	87	87	87	87
31.5	68<	70<	68<	72	73	75	74	76	77	80	79	80	84	84	84	84	84	84	84
40	65<	70<	72<	73<	74	73<	75	76	73<	75	76	77	80	81	81	81	81	81	81
50	68<	65<	70<	70<	70<	72<	71<	73<	70<	73	72<	72<	74	77	77	77	77	77	77
63	63<	63<	63<	65<	67<	67<	66<	69<	69<	71	74	73	73	71<	71<	71<	71<	71<	71<
80						65<		69<	68<	70<	71<	70<	71<	69<	69<	69<	69<	69<	69<
100																			
125											66<								
160													64<	64<	64<	64<	64<	64<	64<
200										59<	61<	63<	64<	65<	65<	65<	65<	65<	65<
250										58<	58<	62<	67	67	67	67	67	67	67
315	51<									51<	52<	54<	56<	58<	58<	58<	58<	58<	58<
400	51<	47<	47<	47<	45<	44<			44<	47<	47<	50<	49<	51<	51<	51<	51<	51<	51<
500	54<	54<	52<	54<	53<	54<	47<	50<	48<	45<	47<	49<	49<	50<	50<	50<	50<	50<	50<
630	54<	52<	50<	51<	50<	53<	48<	47<	48<	47<	46<	47<	47<	50<	50<	50<	50<	50<	50<
800	52<	47<	48<	48<	48<	49<	46<	47<	47<	48<	47<	48<	49<	49<	49<	49<	49<	49<	49<
1000	54<	48<	50<	51<	51<	49<							48<	48<	48<	48<	48<	48<	48<
1250	57<	53<	52<	52<	53<	52<		48<				48<	50<	50<	50<	50<	50<	50<	50<
1600	57	54	51<	50<	51<	51<	47<	44<	47<	46<	45<	48<	51<	51<	51<	51<	51<	51<	51<
2000	53	51<	49<	49<	49<	46<	45<	43<	46<	45<	46<	47<	48<	50<	50<	50<	50<	50<	50<
2500	49	48	46<	48	48	44<	41<	39<	42<	43<	44<	44<	47<	45<	45<	45<	45<	45<	45<
3150	45<	36<	37<	39<	39<	37<	36<	36<	41<	44<	43<	43<	44<	44<	44<	44<	44<	44<	44<
4000	39<	35<	36<	36<	36<	34<	32<	33<	40<	43	42	41<	41<	42	42	42	42	42	42
5000	46	41<	40<	39<	39<	39<	34<	36<	41	44	43	42	42	43	43	43	43	43	43
6300	42	41	39	40	38<	38<	33<	34<	40	42	41	40	41	42	42	42	42	42	42
8000	43	42	39<	39<	38<	39<	34<	34<	40	42	40	39<	45	41	41	41	41	41	41
10000	40	38<	34<	34<	34<	33<	31<	32<	38	38	36<	36<	38	37<	37<	37<	37<	37<	37<
OVERALL	87	89	86	88	89	89	89	91	91	94	93	94	95	94	94	94	94	94	94

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 7.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 04
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 29 C
BAR PRESS = .743 M HG
REL HUMID = 58 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	87	83	83	83	85	87	84	77	86	86	86	88	89	86	86	86	90	88	89
16	85	86	86	83	81	85	87	80	88	89	89	89	89	88	88	88	90	86	91
20	82	83	83	84	80	86	85	77	87	88	88	88	90	87	87	87	89	90	88
25	70<	68<	68<	75	77	78	79	71<	83	83	86	85	87	87	87	87	88	86	88
31.5	69<	68<	68<	71	74	74	75	65<	77	79	80	82	85	85	85	85	88	84	88
40	66<	70<	70<	72<	76	75	76	67<	76	76	76	78	82	82	82	82	86	85	88
50	66<			66<	69<	73<	74	69<	74	73<	72<	74	75	78	78	78	83	79	83
63	63<	62<	62<	63<	64<	71<	67<	65<	68<	72	72	74	73	71	71	71	77	68<	77
80	60<					65<	65<		67<	68<	71<	72<	71<	71<	71<	71<	72<	66<	71<
100																			
125												67<	67<	66<	66<	66<	67<		67<
160													63<	66<	66<	66<	64<		64<
200										59<	61<	65<	65<	66<	66<	66<	60<		60<
250	56<				56<					57<	60<	63<	67	67	67	67	64<		64<
315	51<	48<		49<			48<		49<	52<	53<	56<	57<	60	60	60	56<	53<	55<
400	50<	48<	48<	47<	44<	44<	46<		46<	47<	47<	50<	51<	53<	53<	53<	56	54<	55
500	55<	54<	53<	53<	52<	55	55<		49<	47<	47<	48<	52<	53<	53<	53<	57	53<	56
630	52<	52<	52<	52<	51<	56	52<		49<	48<	46<	47<	51<	52<	52<	52<	57	52<	57
800	49<	49<	49<	47<	47<	51<	52<		48<	48<	48<	47<	51<	52<	52<	52<	55<	48<	55<
1000	49<	49<	49<	49<	48<	51<	48<						50<	52<	52<	52<	55<	48<	55<
1250	53<	52<	52<	51<	51<	52<	53<					49<	50<	53<	53<	53<	58		58
1600	54	53<	53<	52<	51<	52<	52<	45<	47<	46<	45<	50<	51<	53<	53<	53<	55	49<	55
2000	56	56	56	56	53	48<	48<	42<	45<	44<	44<	49<	50<	53	53	53	51<	48<	51<
2500	43<	43<	43<	46<	46<	45<	44<	43<	43<	43<	43<	46<	49	47	47	47	49	45<	49
3150	40<	42<	42<	38<	37<	39<	41<	43<	43<	43<	42<	44<	45<	46	46	46	47	43<	47
4000	41<	40<	41<	35<	34<	35<	39<	38<	42<	42	40<	43	41<	44	44	44	44	42	45
5000	39<	40<	40<	38<	36<	40<	42	40<	43	44	41<	42	42	45	45	45	45	42	45
6300	39	40	39<	38<	37<	39<	41	39<	42	42	40	41	41	43	43	43	43	40	43
8000	41	39<	38<	42	37<	39<	41	41	42	43	39<	40	40	41	41	41	43	40	43
10000	38	36<	37<	39	36<	35<	38	37<	39	38<	35<	36<	35<	39	39	39	40	39	40
OVERALL	90	89	89	89	88	91	91	84	93	94	94	94	95	94	94	94	97	95	97

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 7.2

MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-001
RUN 05
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-108 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 29 C
BAR PRESS = .743 M HG
REL HUMID = 58 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	94	93	91	92	93	94	92	92	93	96	96	99	95	96	96	96	97	97	97
16	93	93	91	91	92	91	95	96	95	97	98	98	99	100	100	100	99	99	99
20	90	90	93	92	93	96	94	95	97	98	100	100	101	101	101	101	101	101	101
25	84	82	86	89	89	93	93	97	93	97	99	99	100	100	100	100	100	99	99
31.5	80	79	79	86	85	88	91	90	92	94	97	97	99	97	97	97	102	100	100
40	80	80	80	84	86	86	87	89	87	90	94	96	97	99	99	99	101	99	99
50	79	78	82	81	82	84	81	87	86	85	90	90	92	95	95	95	98	95	94
63	74	74	75	77	79	80	81	83	84	83	86	86	87	90	90	90	93	88	88
80	75<	69<	73<	75<	76	76	77	80	83	84	84	86	88	87	87	87	88	85	85
100	74<					73<	74<	76<	77<	83<	83<	85	88	86	86	86	84	83<	83<
125	72<	68<	67<	70<	69<	70<	69<	70<	73<	78	81	79	80	80	80	80	82	79	79
160	68<	65<	64<	67<	64<	64<	64<	67<	69<	74<	76	76	77	77	77	77	79	77	77
200	60<	60<	61<	64<	61<	61<	61<	63<	65<	70	73	74	74	74	74	74	75	74	74
250	60<	58<	58<	61<	59<	59<	59<	62<	64<	68	72	73	76	74	74	74	73	71	71
315	57<	55<	56<	59<	54<	55<	54<	57<	60	64	66	67	68	68	68	68	68	68	68
400	55	56	54<	57	53<	54<	52<	54<	58	61	62	63	64	65	65	65	63	66	66
500	60	61	57	61	59	61	56	59	53	61	61	62	62	64	64	64	61	64	64
630	59	59	57	59	57	61	56	57	61	60	61	60	62	64	64	64	62	65	65
800	57	58	56<	56	57	60	58	57	62	60	61	61	64	65	65	65	62	65	65
1000	57<	59<	57<	59	58<	59	55<	56<	60	61	61	61	63	64	64	64	63	66	66
1250	61	64	60	62	61	61	58	58	60	60	61	63	65	65	65	65	66	66	66
1600	61	64	61	61	61	60	58	56	59	61	60	62	65	66	66	66	62	65	65
2000	57	60	58	59	56	55	54	53	56	59	58	61	62	65	65	65	58	61	61
2500	49	53	52	55	54	51	48	48	52	57	56	57	59	58	58	58	56	59	59
3150	43<	43<	42<	44<	44<	45<	44<	46	52	53	54	55	57	56	56	56	54	57	57
4000	41<	41<	41<	41<	41<	42	42<	44	50	50	51	52	52	52	52	52	50	54	54
5000	44	46	43	44	43	43	43	44	51	51	52	51	52	52	52	52	50	53	53
6300	43	46	42	45	42	43	42	42	49	49	50	48	50	50	50	50	48	52	52
8000	44	46	42	43	42	42	42	42	48	48	49	48	51	49	49	49	48	51	51
10000	41	41	41	40	40	40	40	41	46	45	45	45	48	46	46	46	46	49	49
OVERALL	98	97	97	98	98	100	101	102	102	104	106	106	107	107	107	107	109	107	107

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

FIGURE: NORMALIZED FARFIELD NOISE LEVELS

7.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-780-081
RUN 81
26 OCT 81
PAGE 6

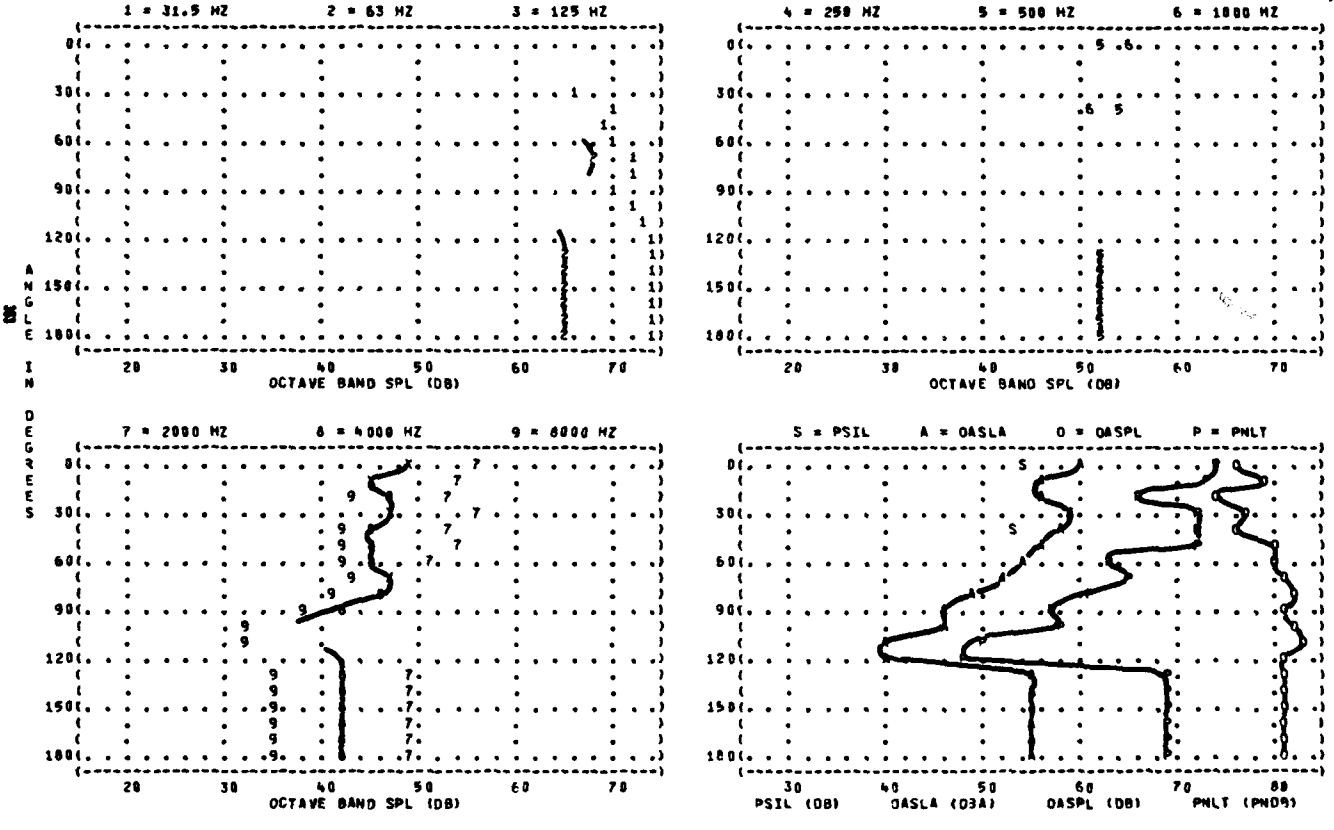


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

71

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 02
26 OCT 81
PAGE 6

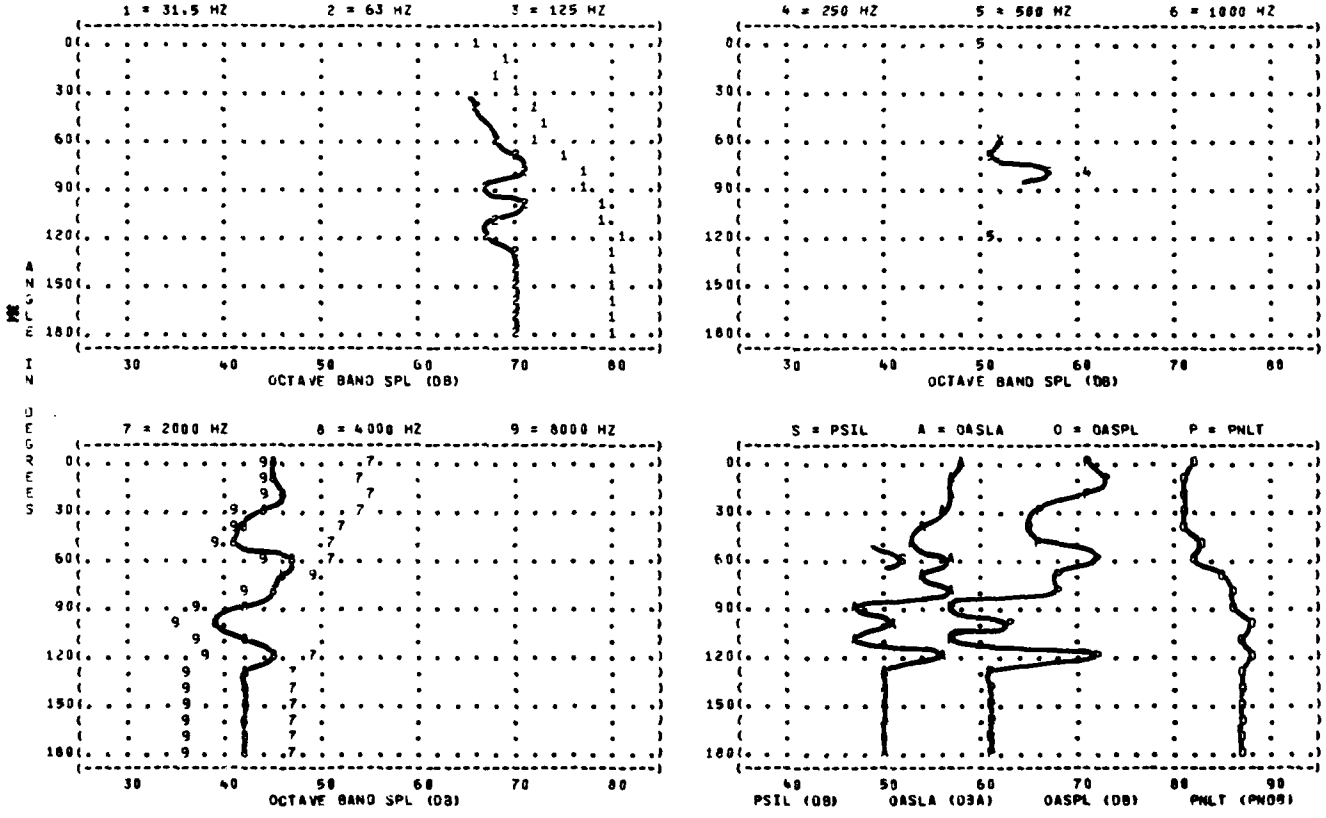


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

7.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 03
26 OCT 81
PAGE 6

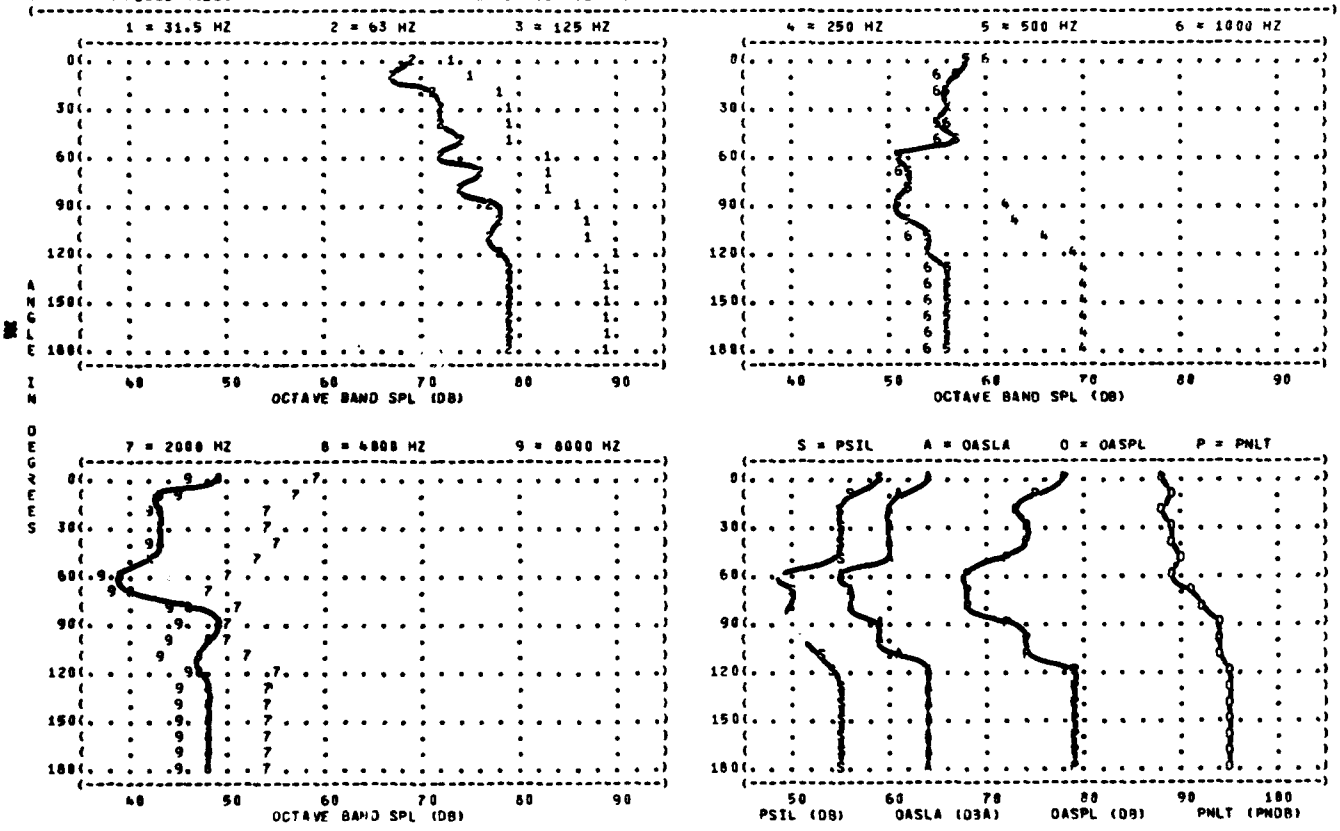


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

7.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST OF-700-001
RUN 04
26 OCT 81
PAGE 6

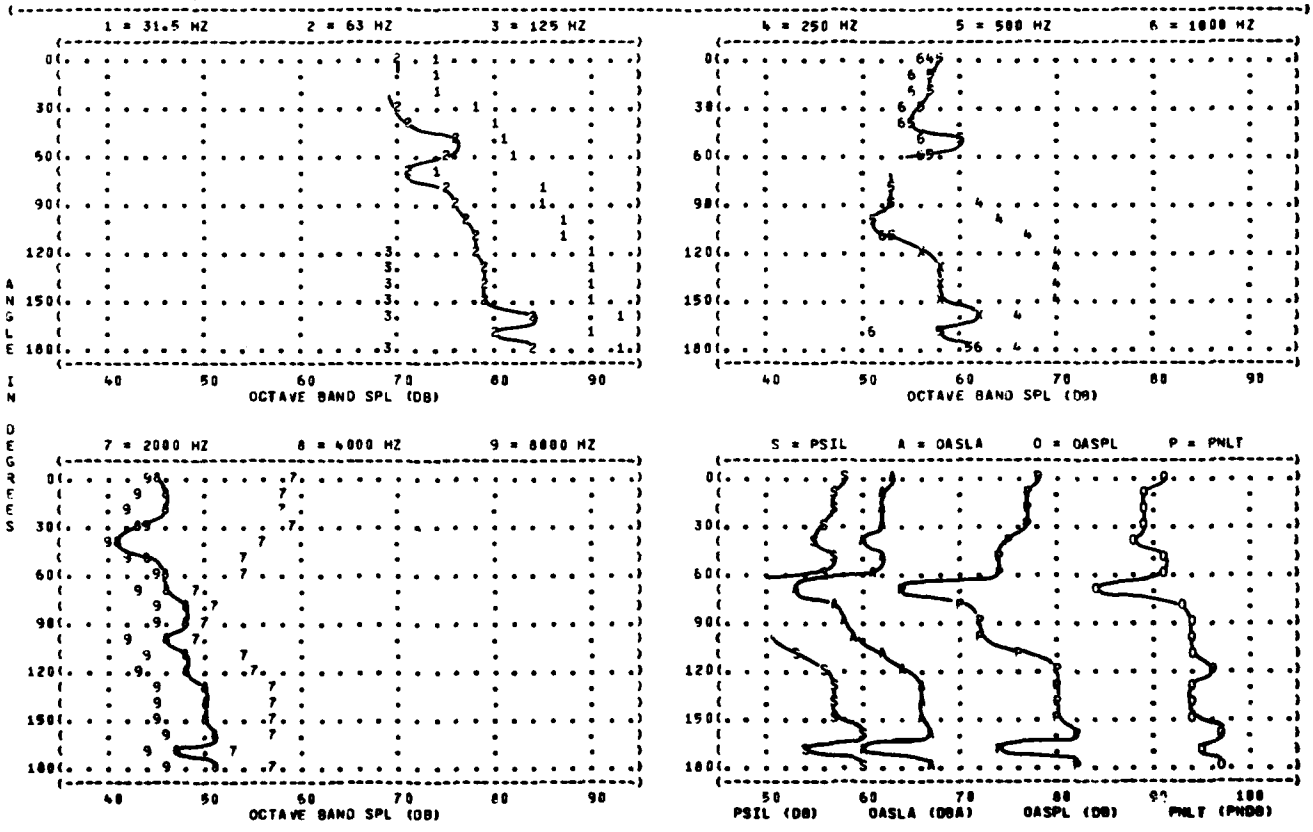


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

7.1

DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-700-001
RUN 05
26 OCT 81
PAGE 6

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

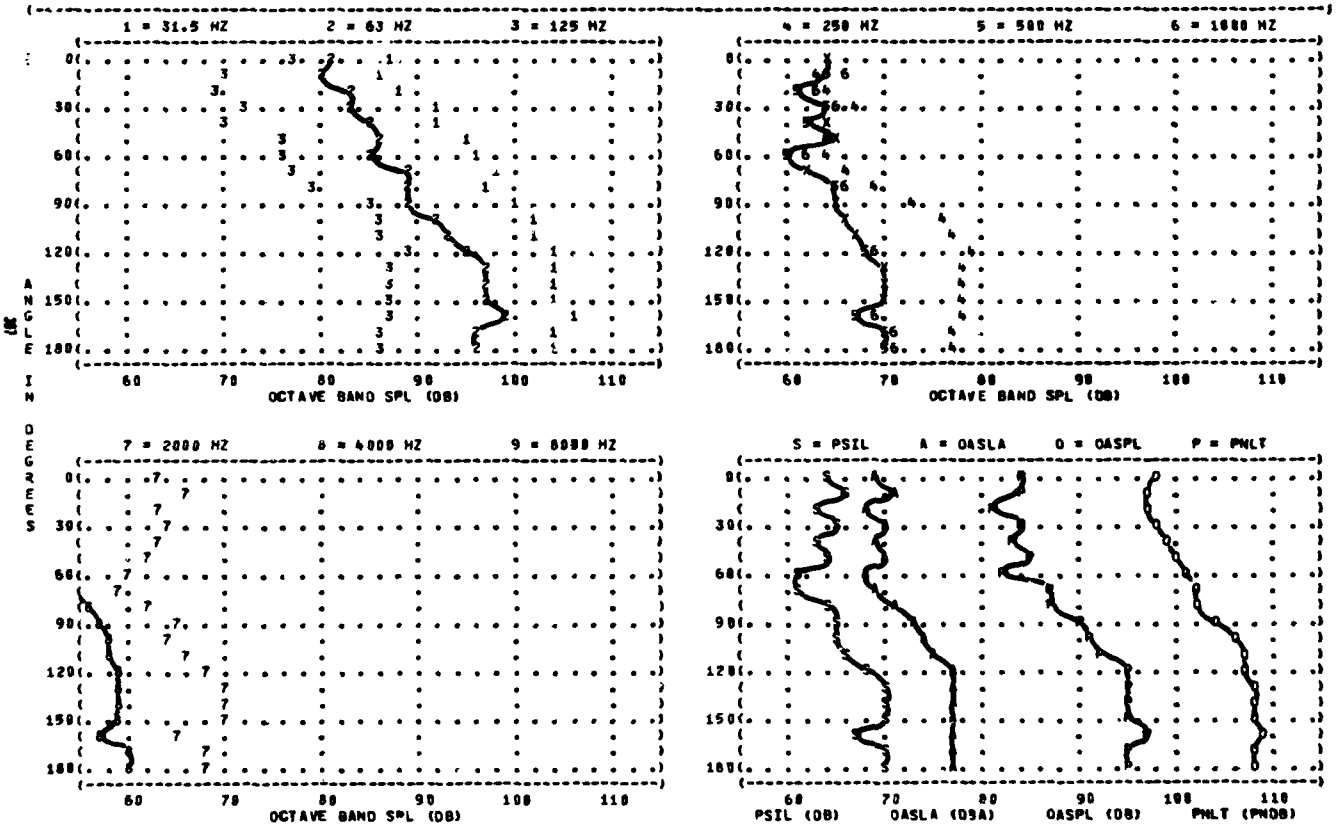


FIGURE: 7.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST 9F-708-001
RUN 01
26 OCT 81
PAGE 13

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

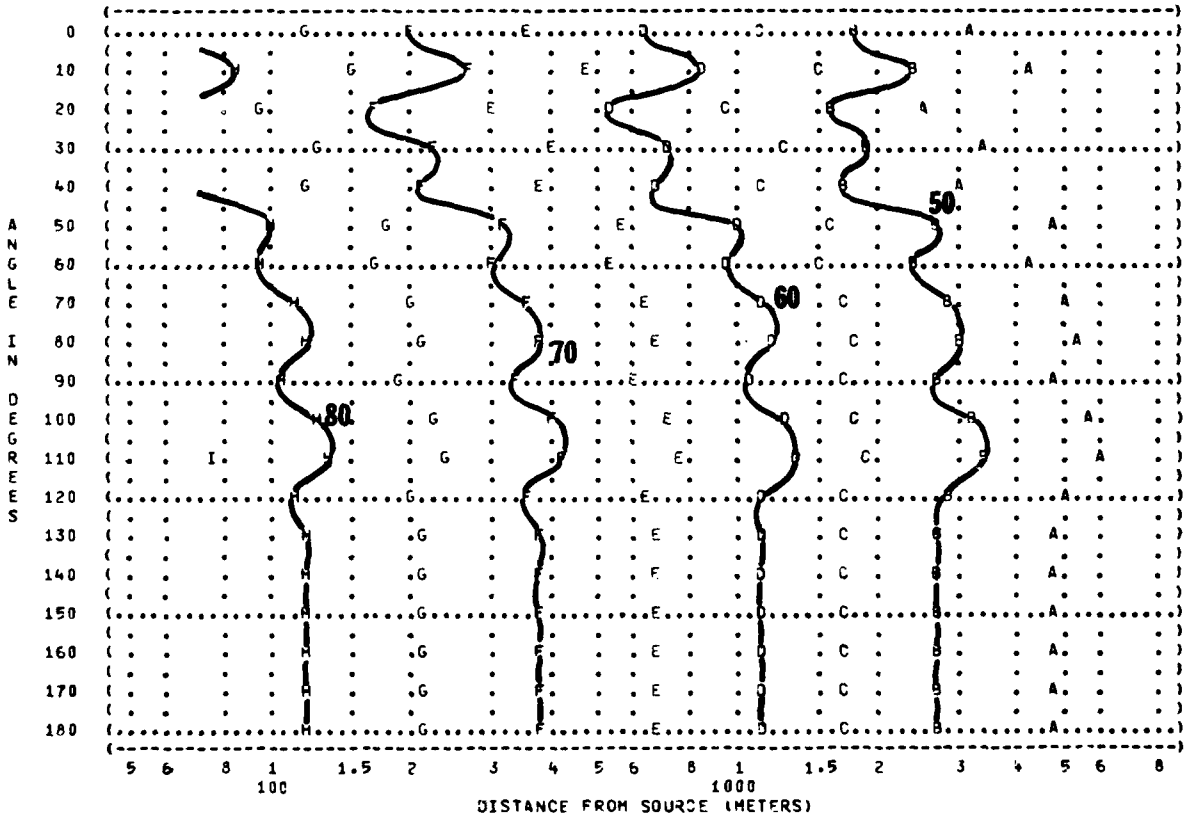


FIGURE 7.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-708-001
RUN 02
26 OCT 81
PAGE 13

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90

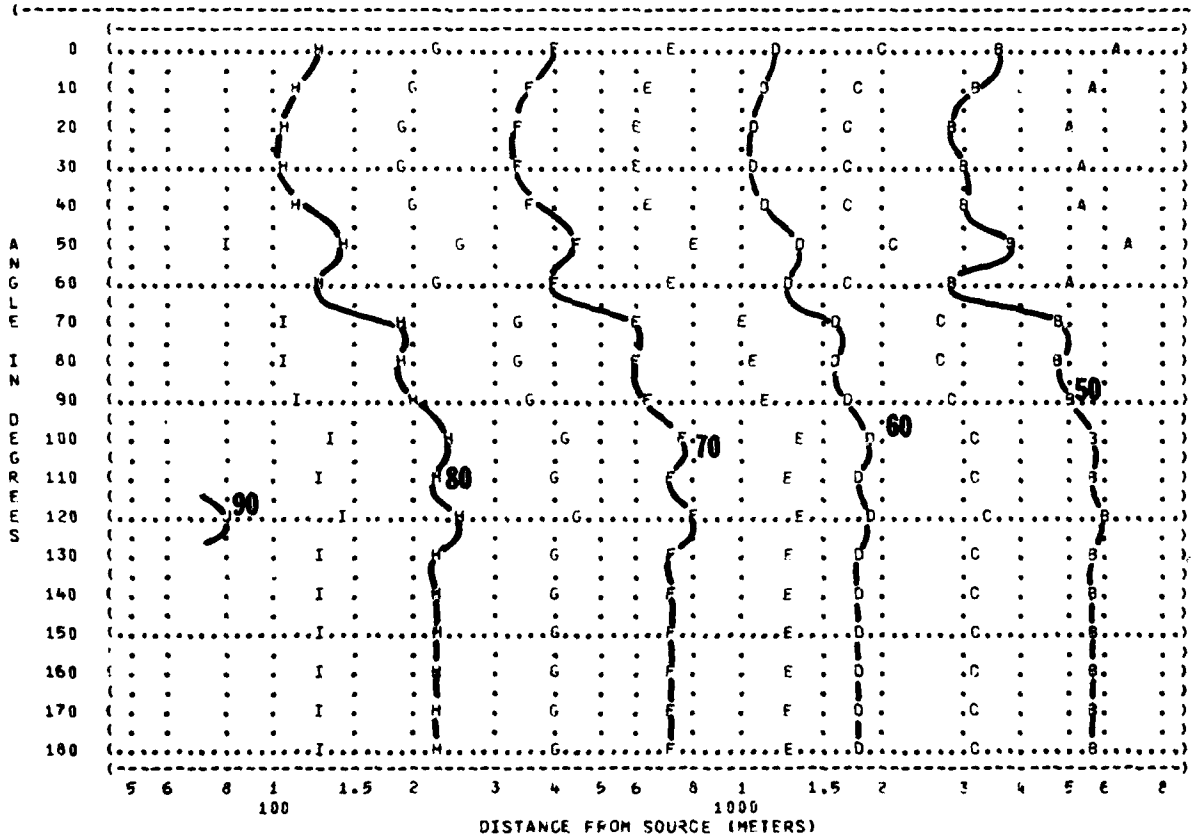


FIGURE 7.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 03
26 OCT 81
PAGE 13

POINT	DB
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95

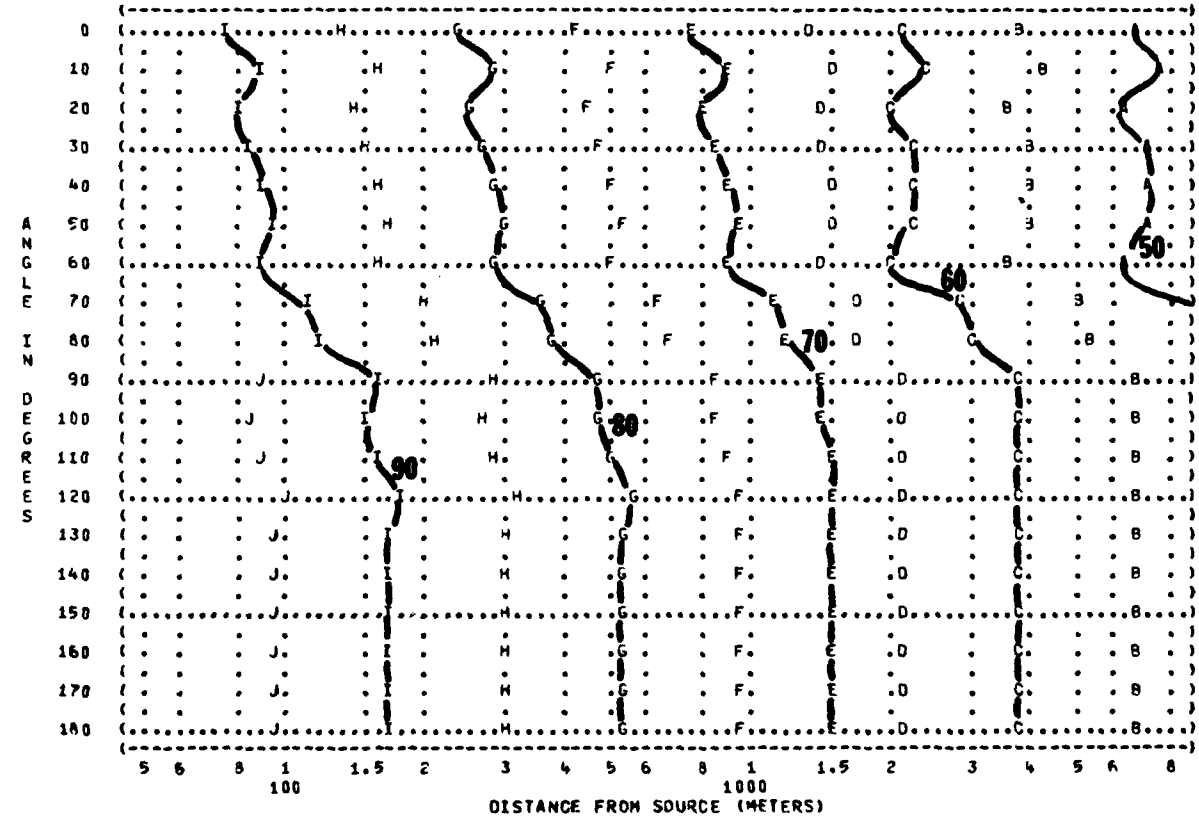


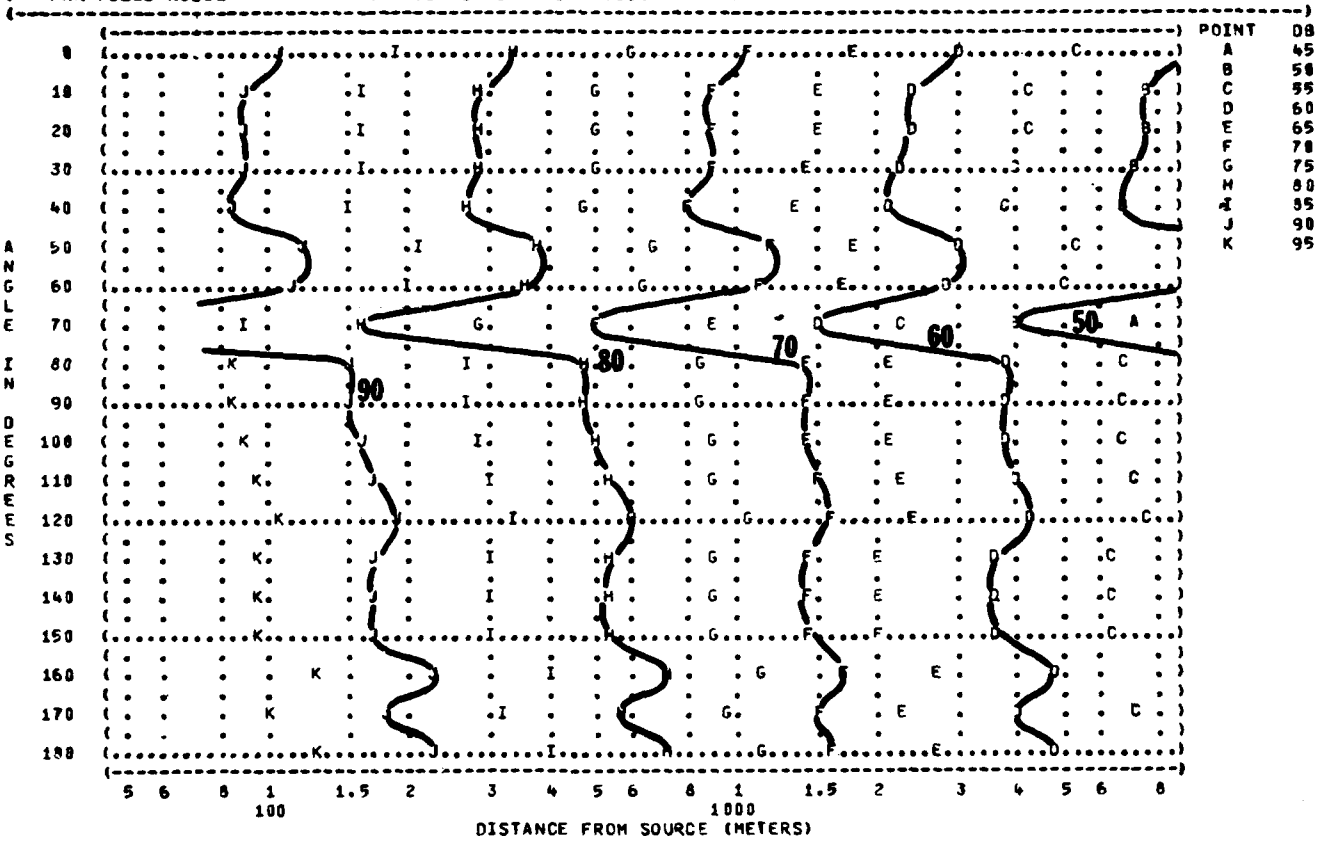
FIGURE 7.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-706-881
RUN 04
26 OCT 81
PAGE 13



POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95

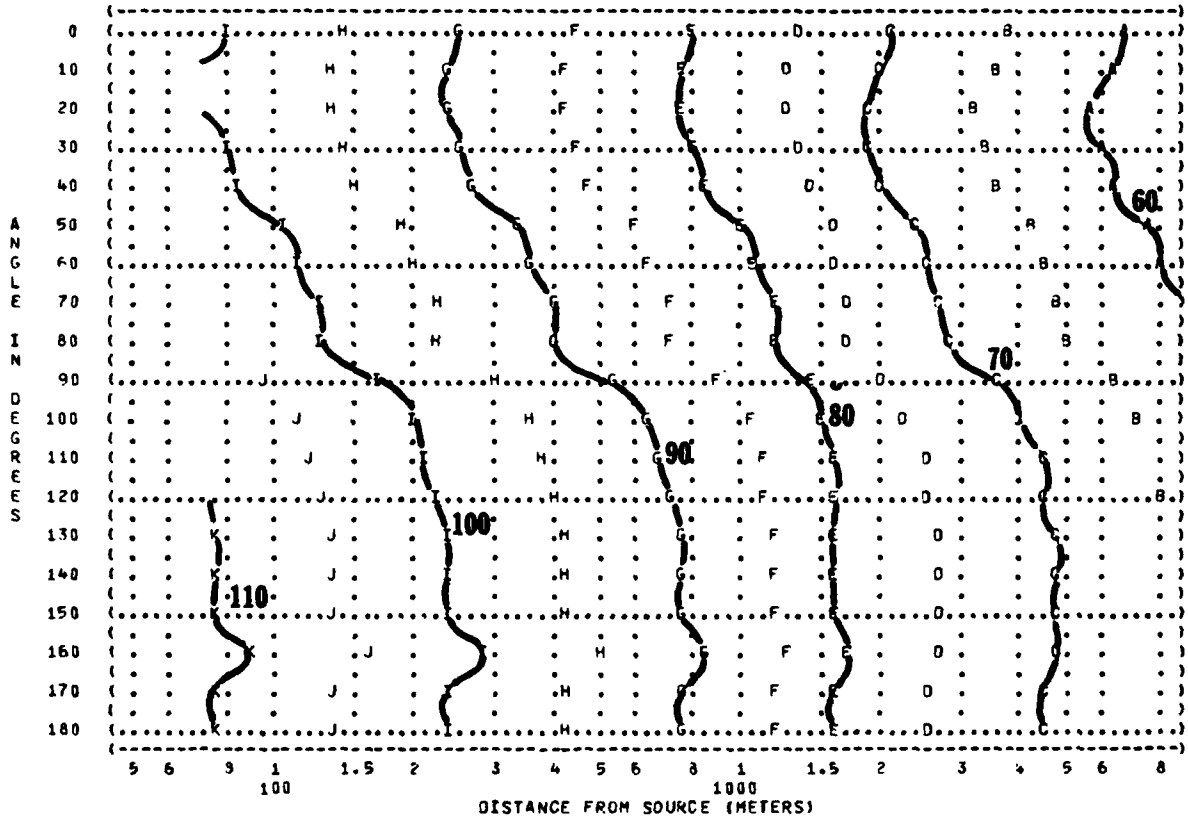
FIGURE 7.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-081
RUN 05
26 OCT 81
PAGE 13



POINT	DB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95
I	100
J	105
K	110

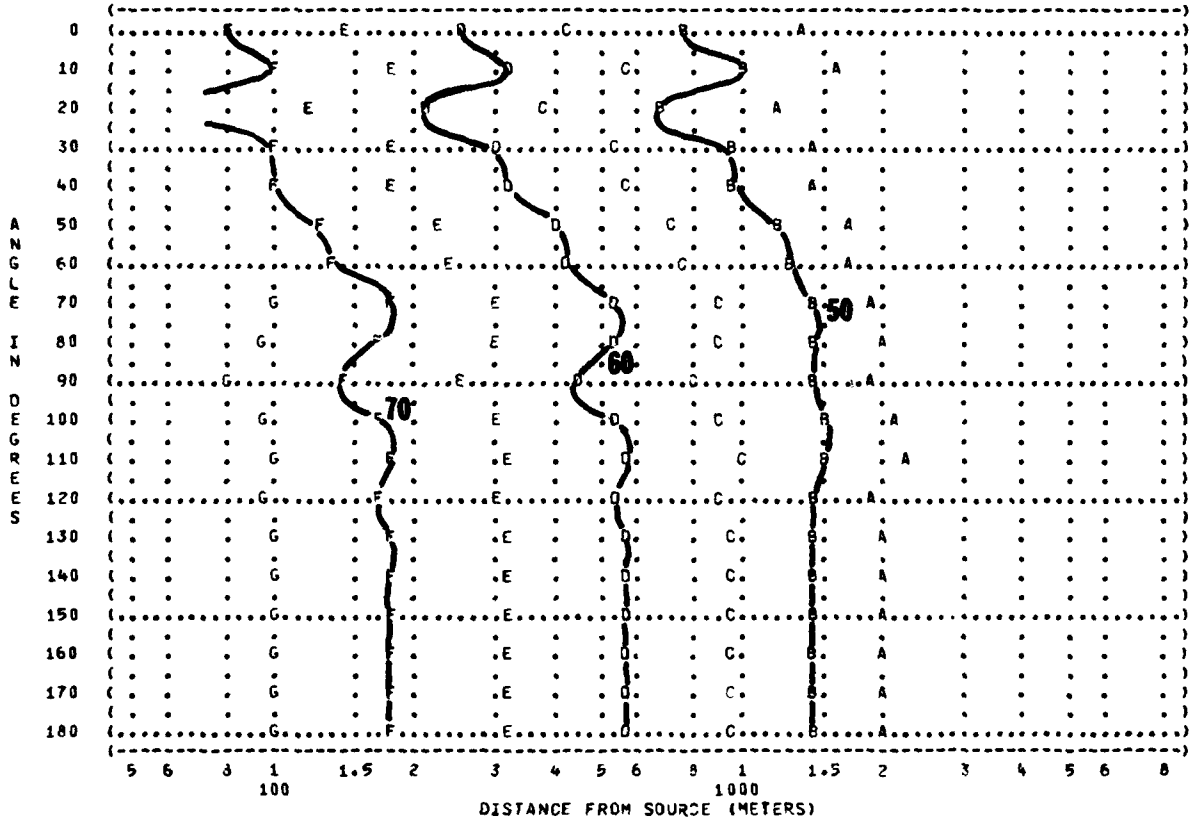
FIGURE: 7.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 01
26 OCT 81
PAGE 14



POINT	DBC
A	45
B	50
C	55
D	60
F	65
F	70
G	75

FIGURE 7.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-766-001
RUN 02
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

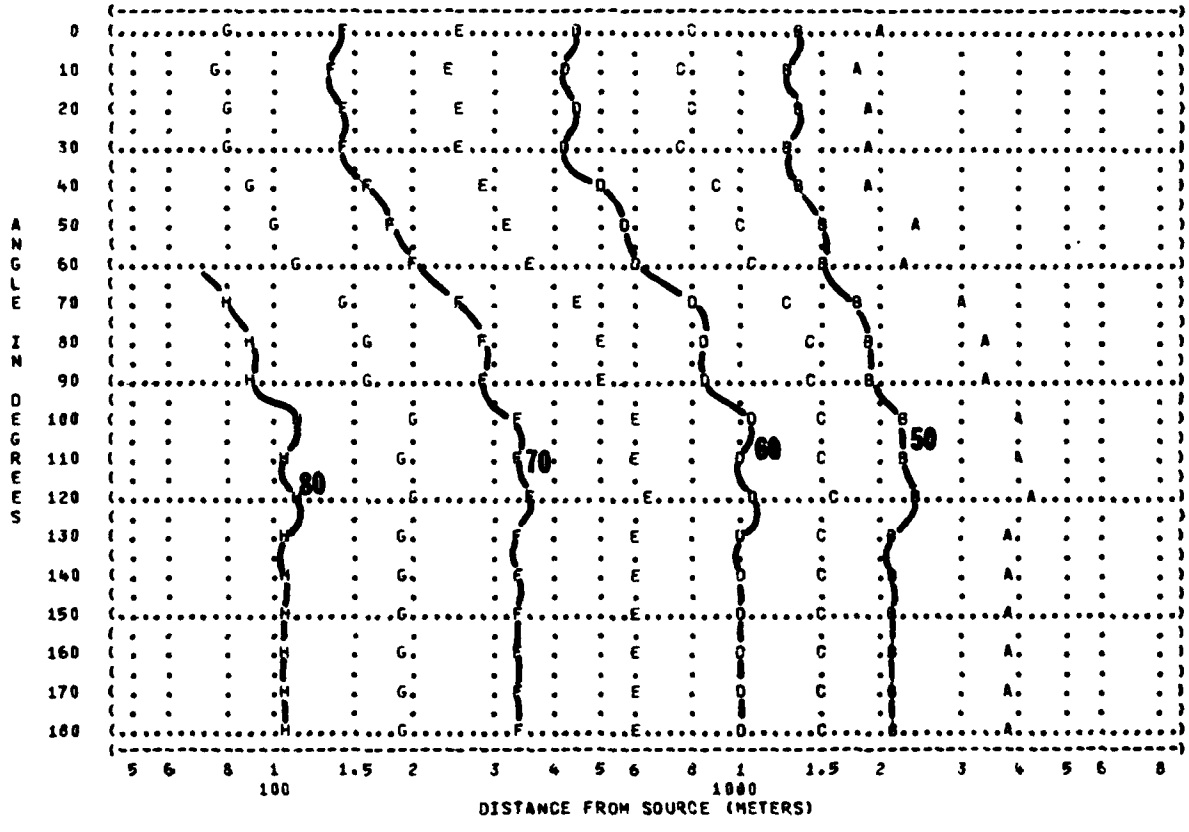


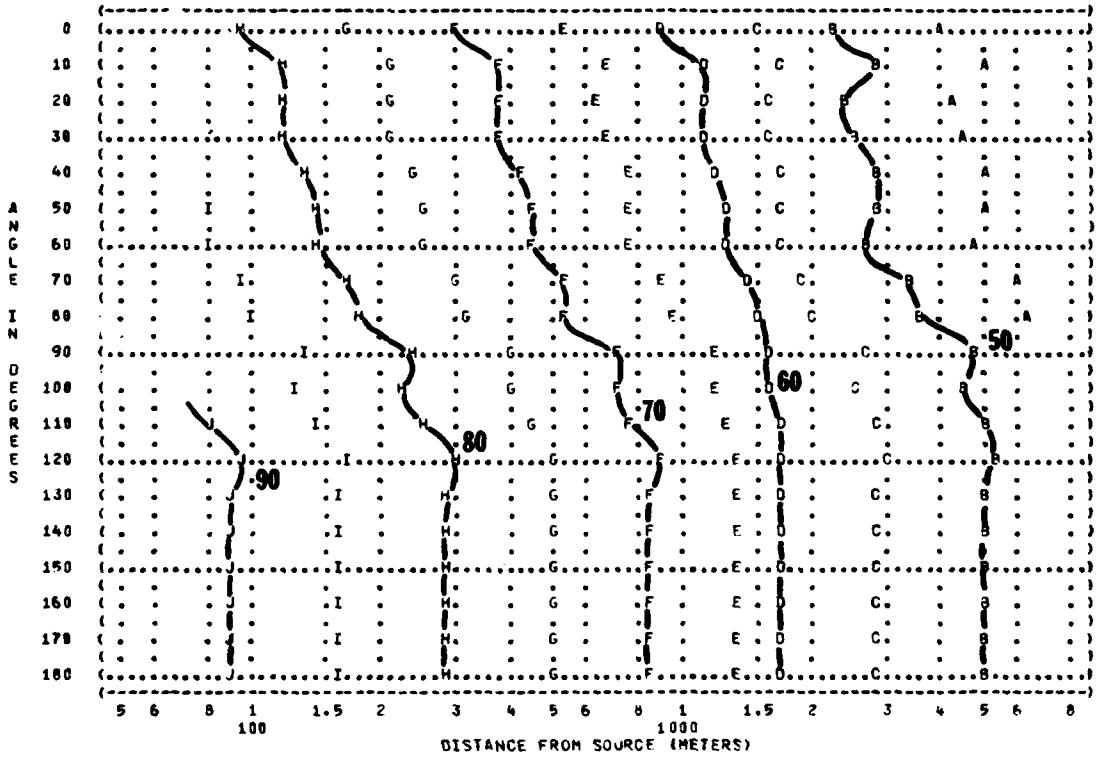
FIGURE 7.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-108 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-001
RUN 03
26 OCT 81
PAGE 14



POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90

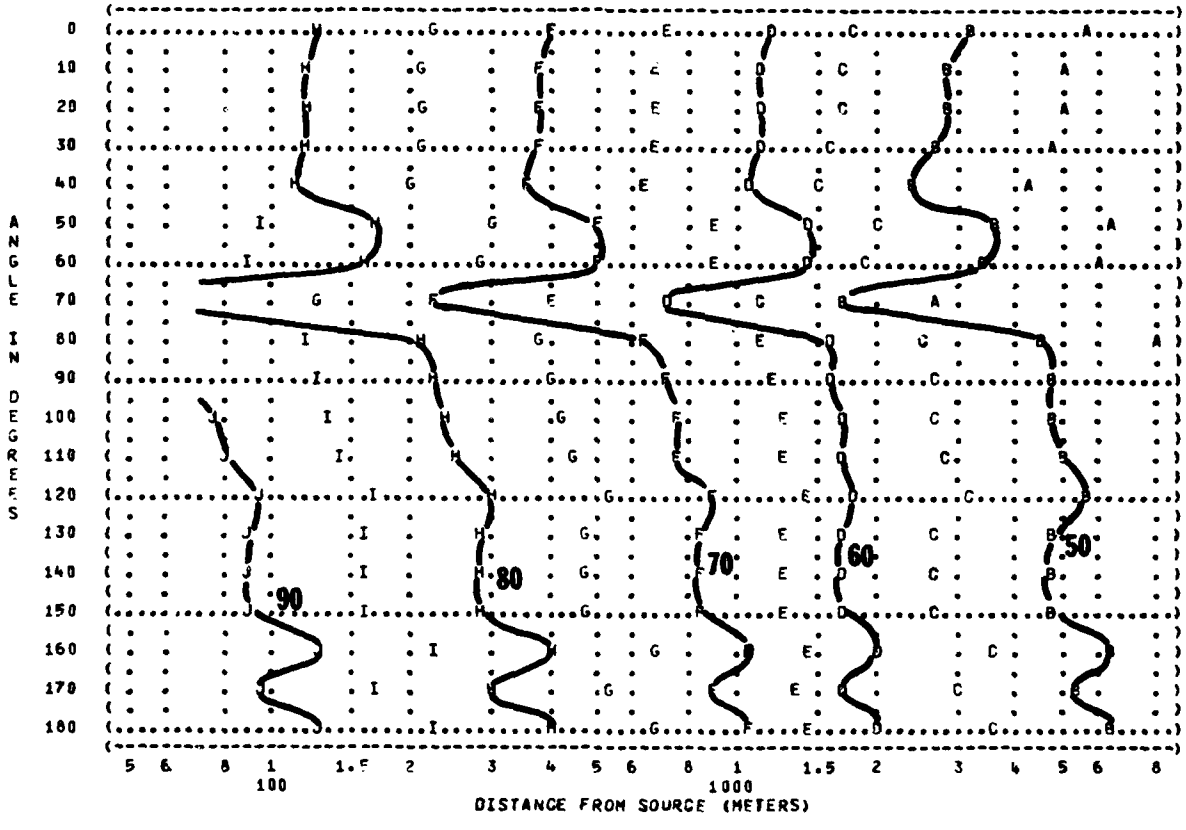
FIGURE: C-WEIGHTED OVERALL SOUND LEVEL (OASLC)
7.3 EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 04
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90

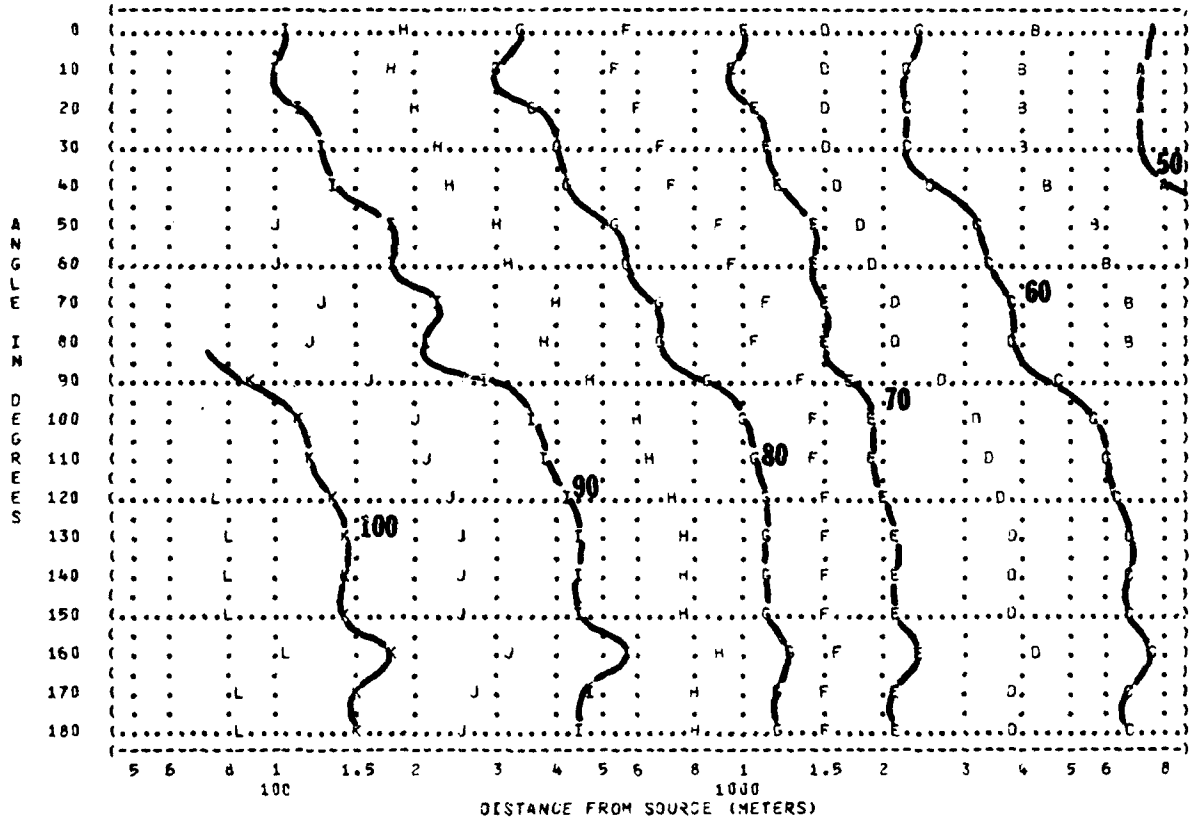
FIGURE: 7.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

OPERATION:
AFTERBURNER POWER (95%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 05
26 OCT 81
PAGE 14



POINT	DBC
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95
K	100
L	105

FIGURE 7.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-091
RUN 01
26 OCT 81
PAGE 15

POINT	DBA
A	45
B	50
C	55
D	60

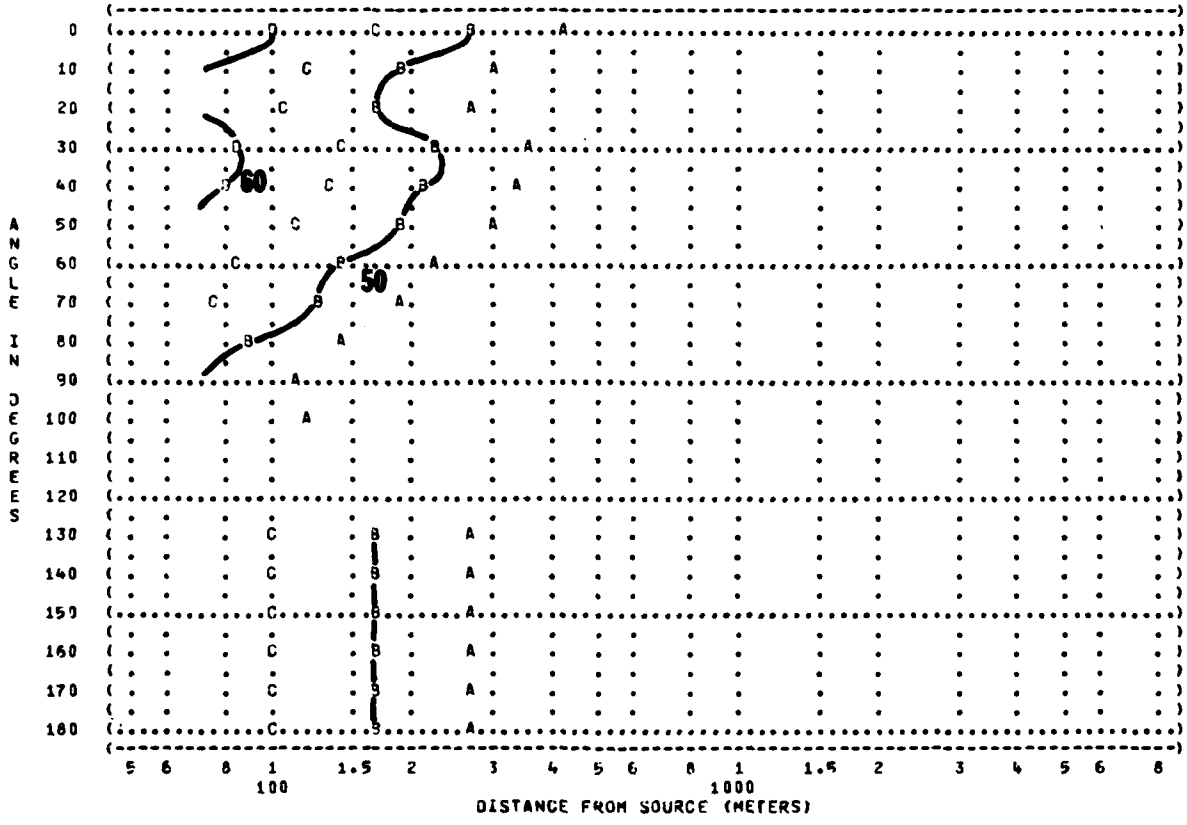


FIGURE: 7.A A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 02
26 OCT 81
PAGE 15

POINT	OBA
A	45
B	50
C	55
D	60

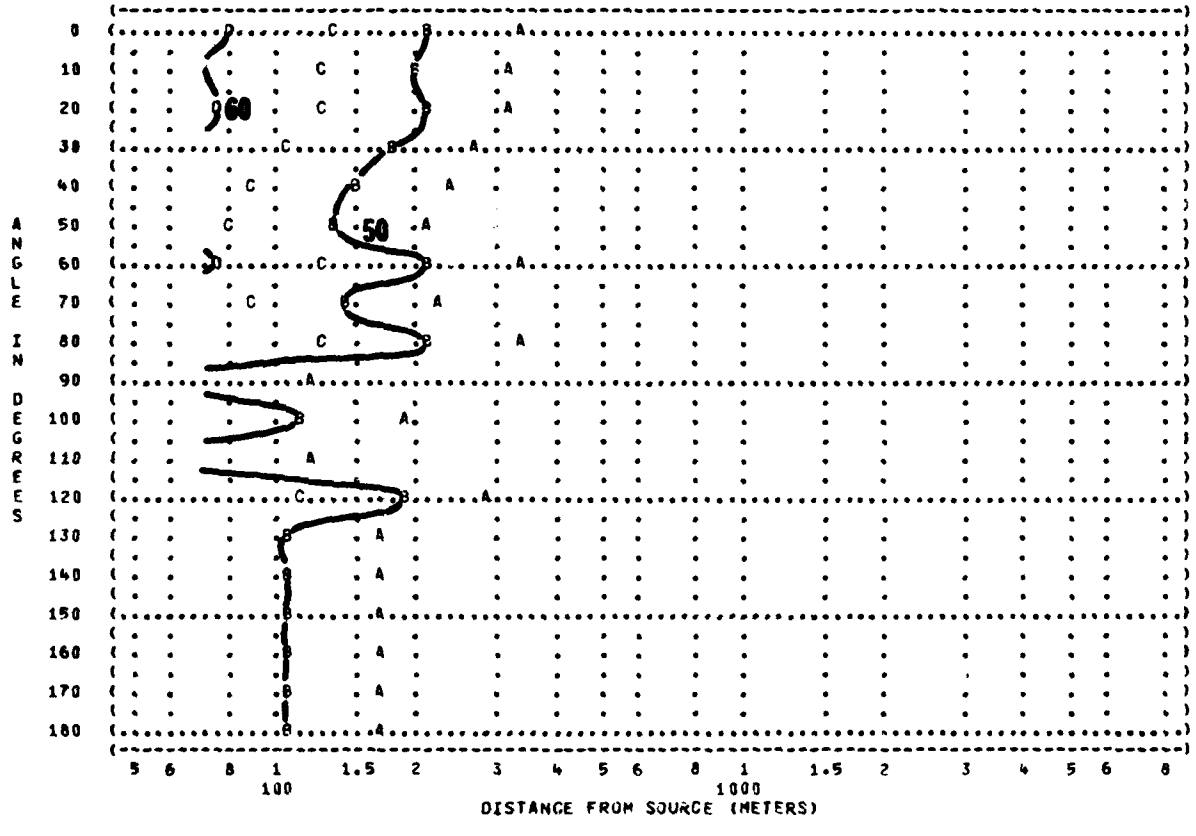


FIGURE: A-WEIGHTED OVERALL SOUND LEVEL (OASLA)
7A EQUAL LEVEL CONTOURS (DBA)

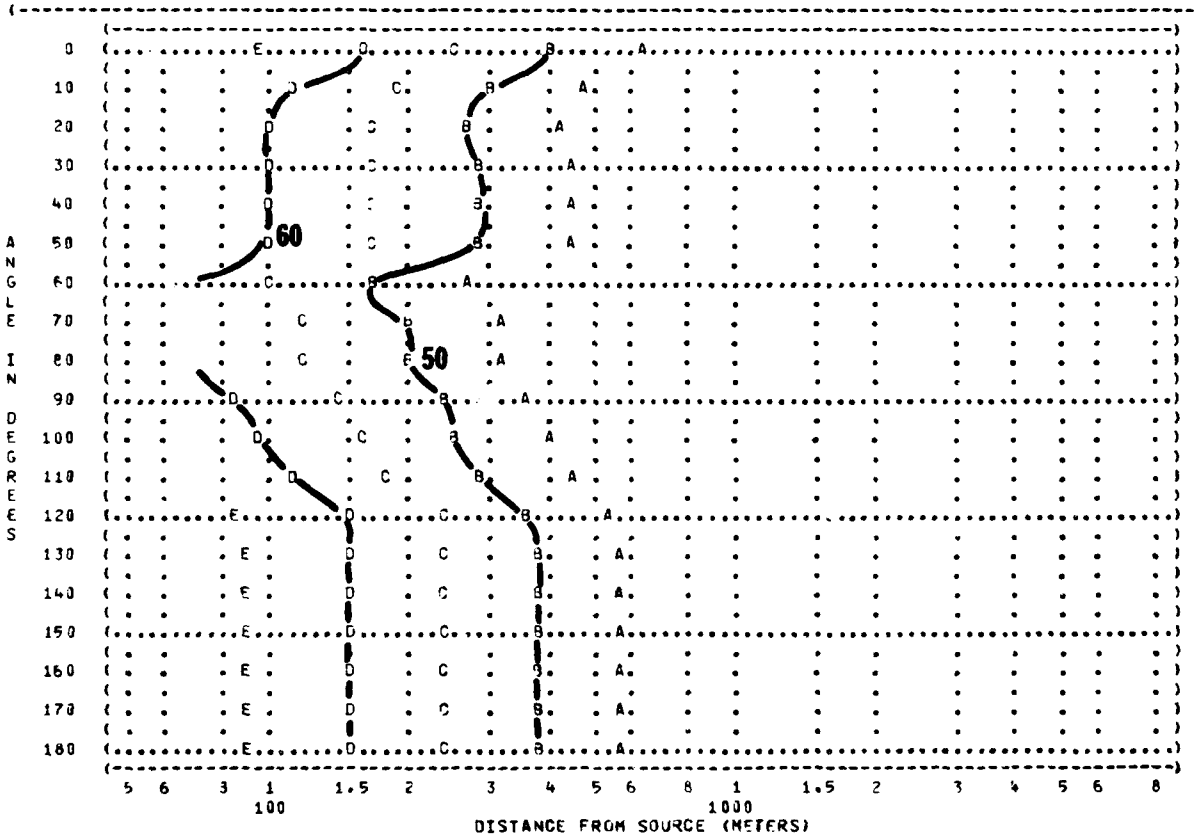
NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 03
26 OCT 81
PAGE 15

POINT	DBA
A	45
B	50
C	55
D	60
E	65



AD-A118 773 AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATT--ETC F/G 20/1
USAF BIOENVIRONMENTAL NOISE DATA HANDBOOK. VOLUME 172. HUSH-HOU--ETC(U)
JUL 82 R A LEE, T H RAU, C JONES
UNCLASSIFIED AMRL-TR-75-50-VOL-172 NL

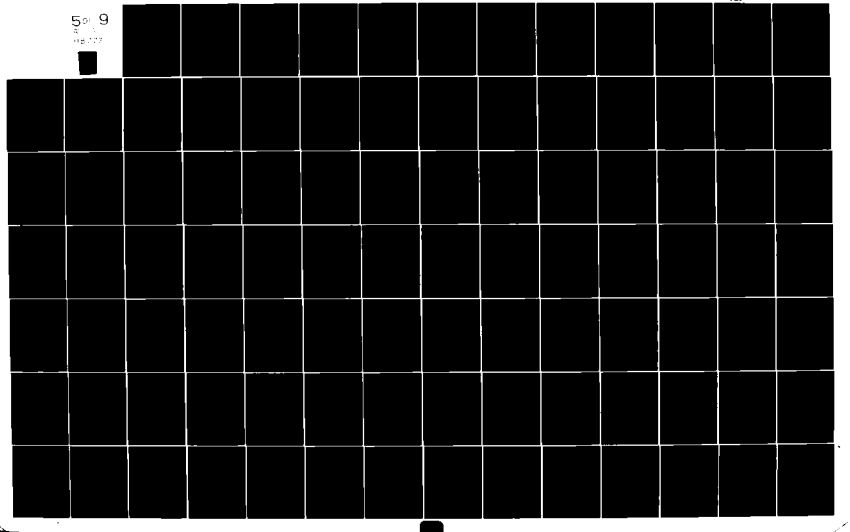


FIGURE 74: A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 04
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-108 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60
E	65

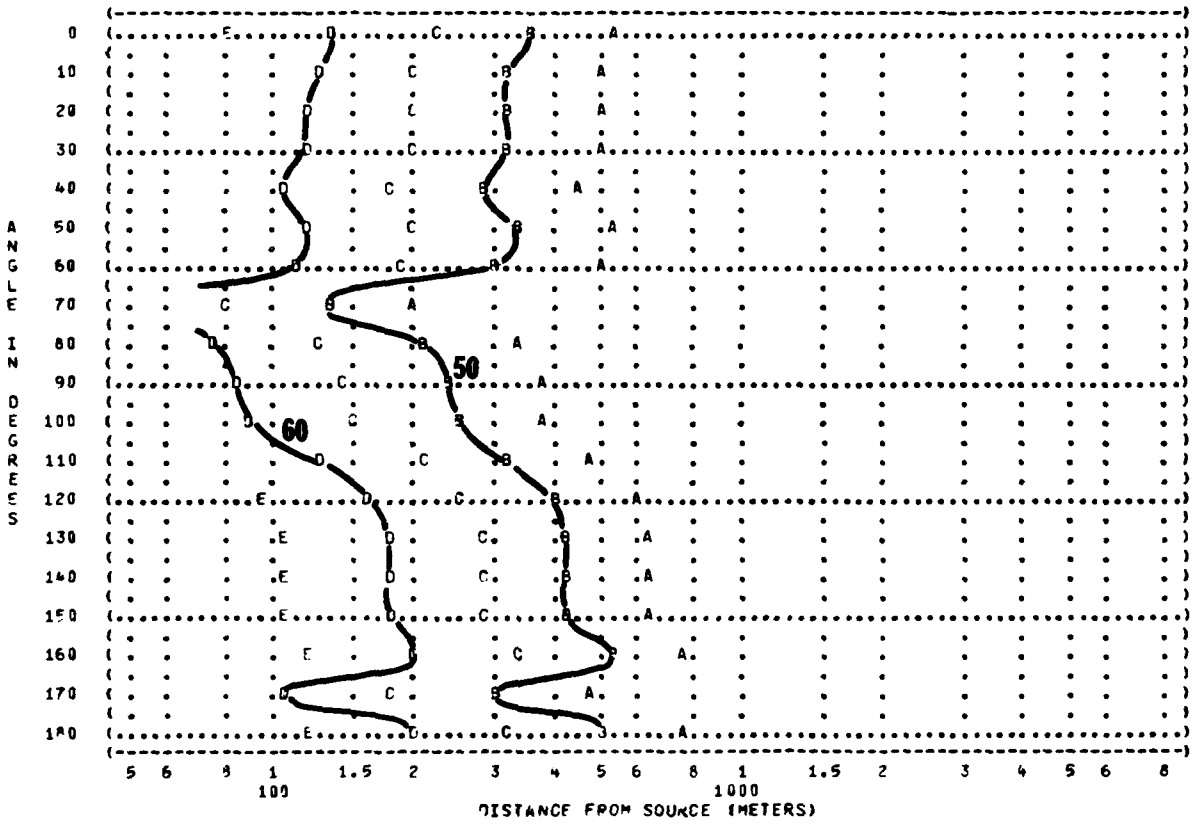


FIGURE: 7.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 05
26 OCT 91

POINT	DBA
A	45
B	50
C	55
D	60
E	55
F	70
G	75
H	80

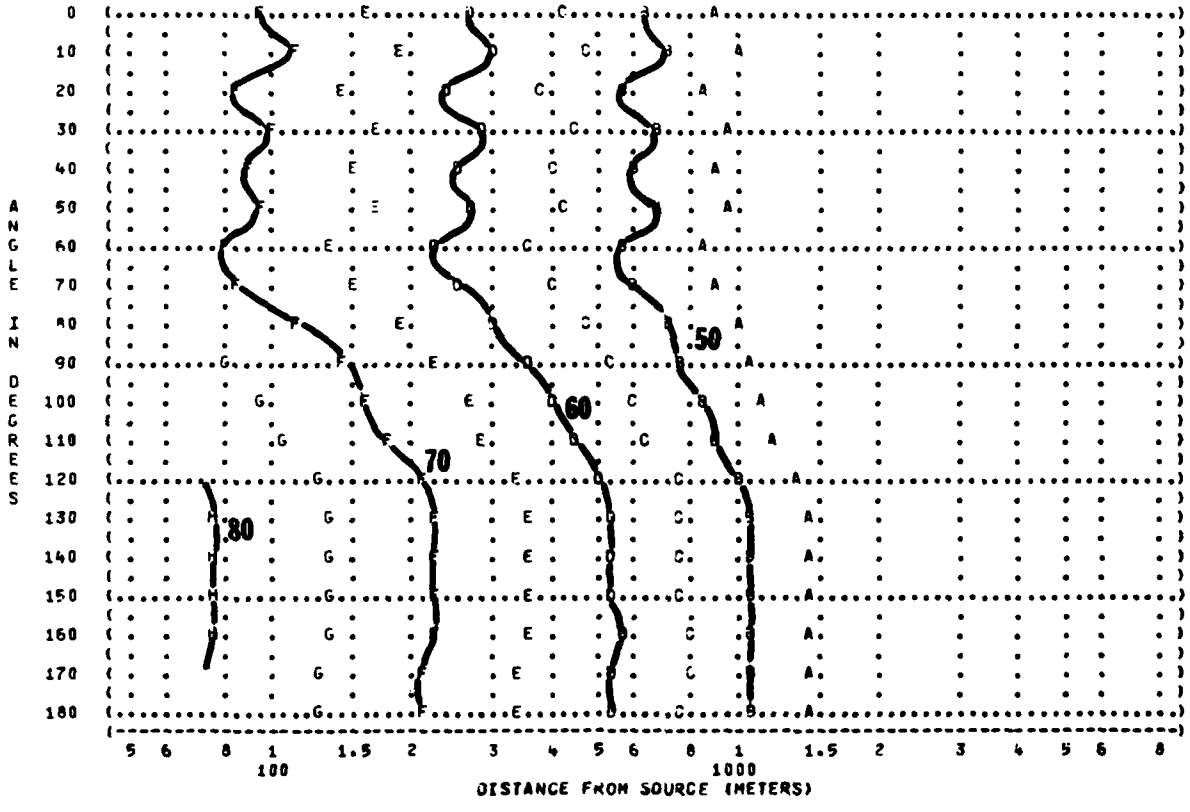


FIGURE 7.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 01
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-108 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAP PRESS = .760 M MS
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75

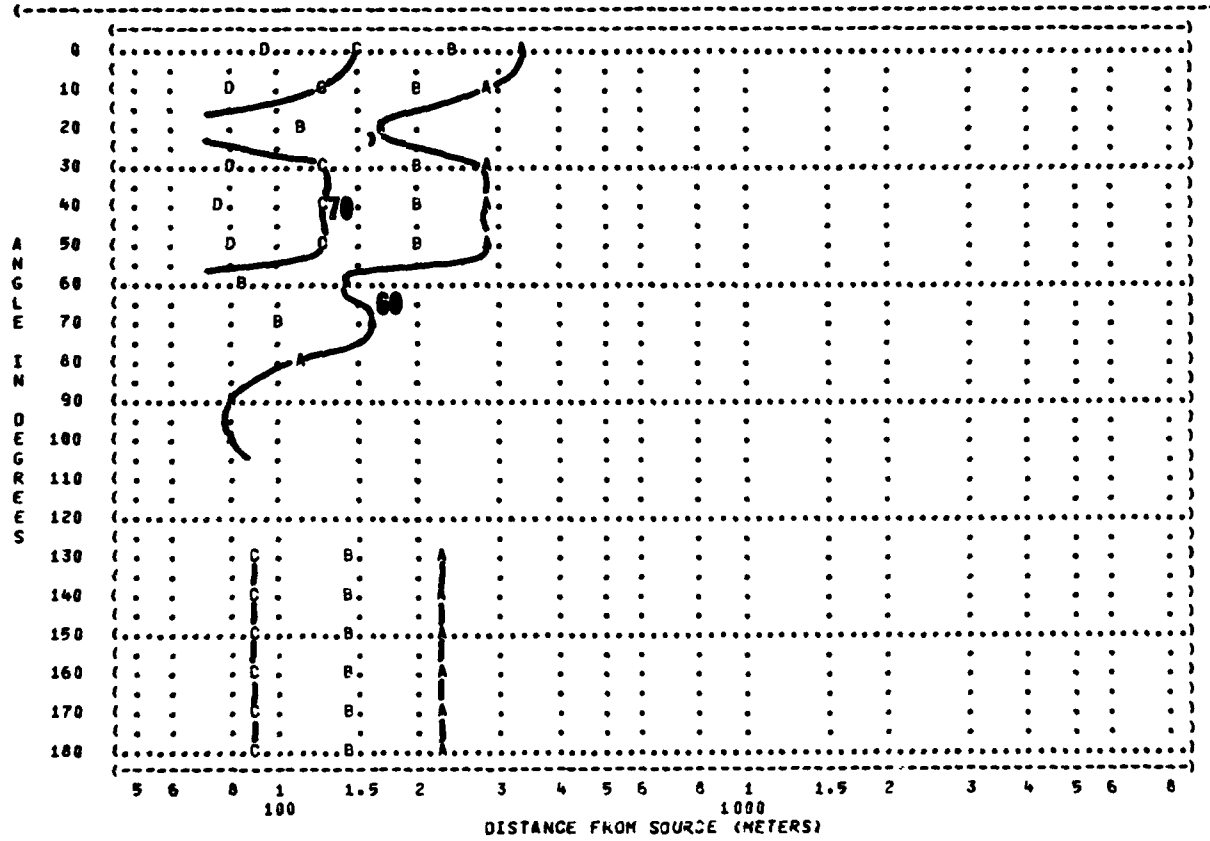


FIGURE: 75 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M MG
REL HUMID = 70 %

IDENTIFICATION:
ONEGA 1.4
TEST BF-708-081
RUN 82
26 OCT 81
PAGE 16

POINT	PNDB
A	60
B	65
C	70
D	75

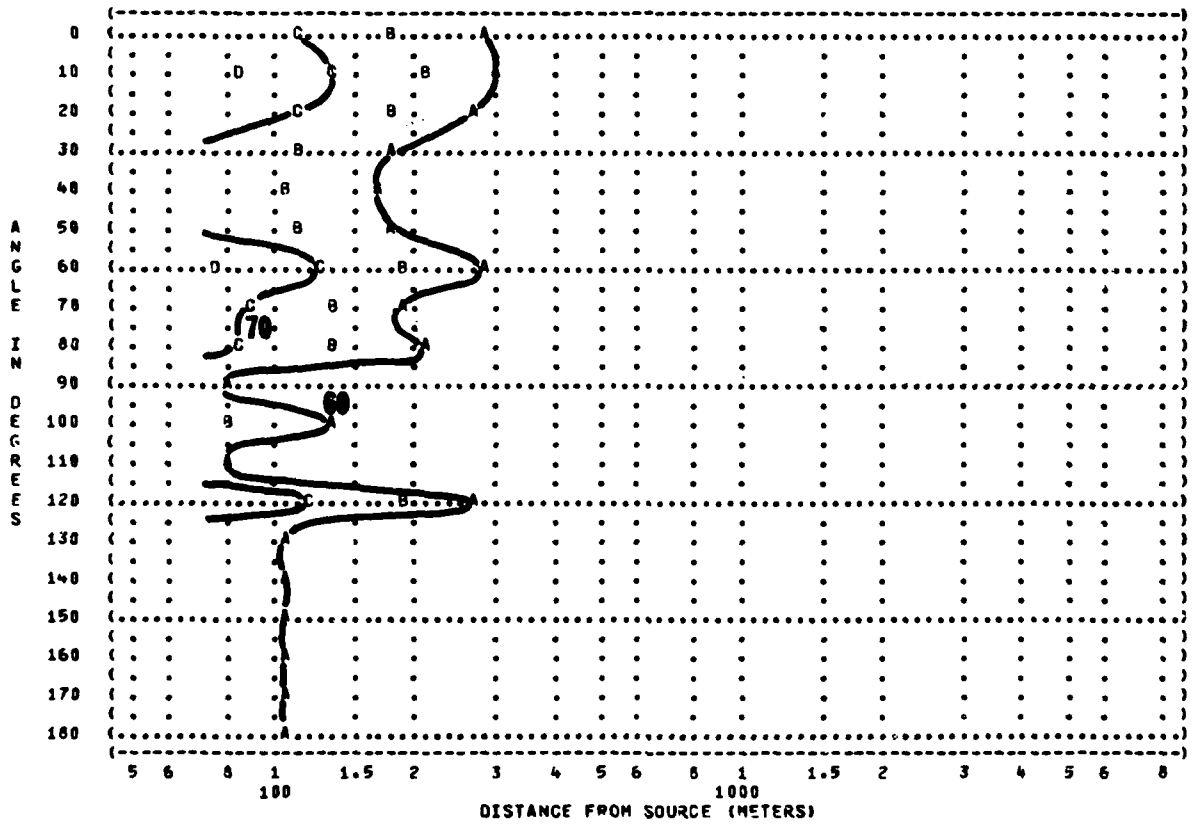


FIGURE 7.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 03
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80

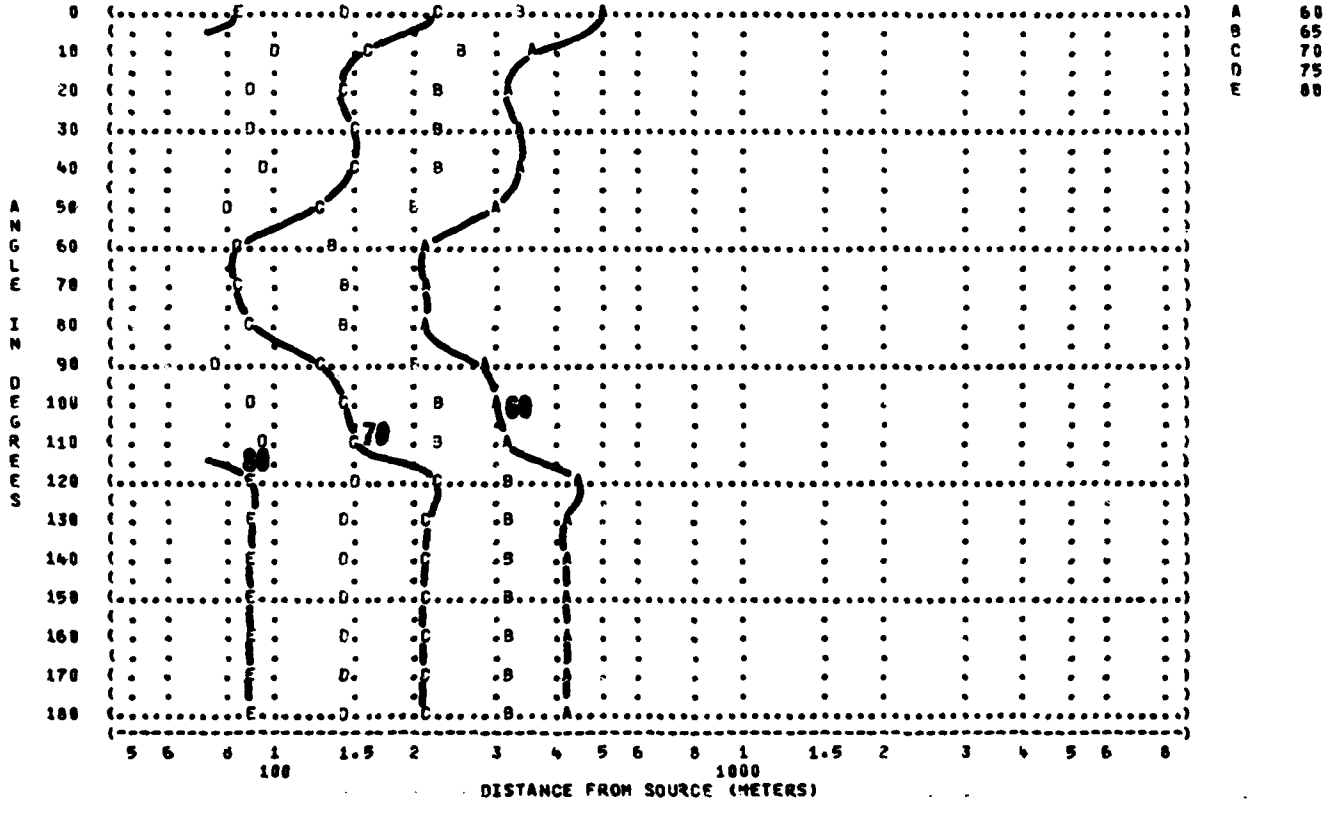


FIGURE: 7.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-081
RUN 04
26 OCT 81
PAGE 16

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85

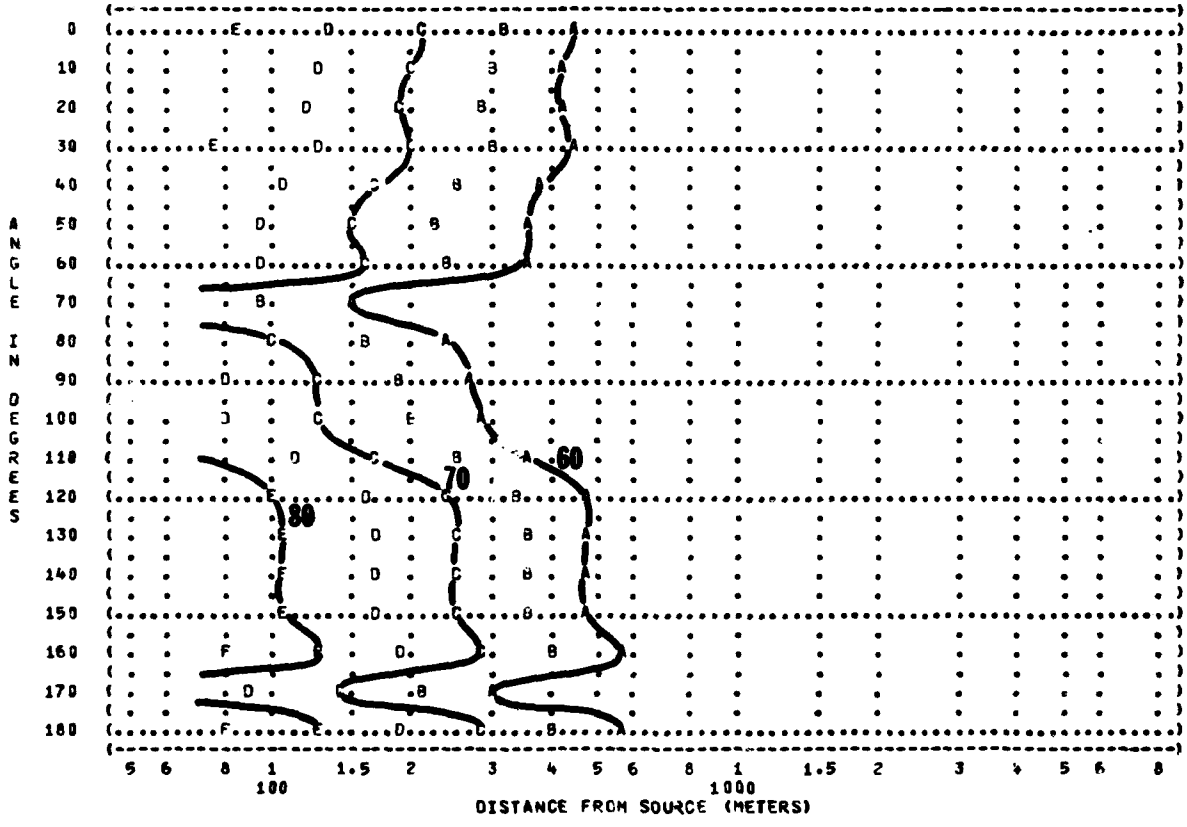


FIGURE 7.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST [illegible]-708-001
RUN 05
26 OCT 81
PAGE 16

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95

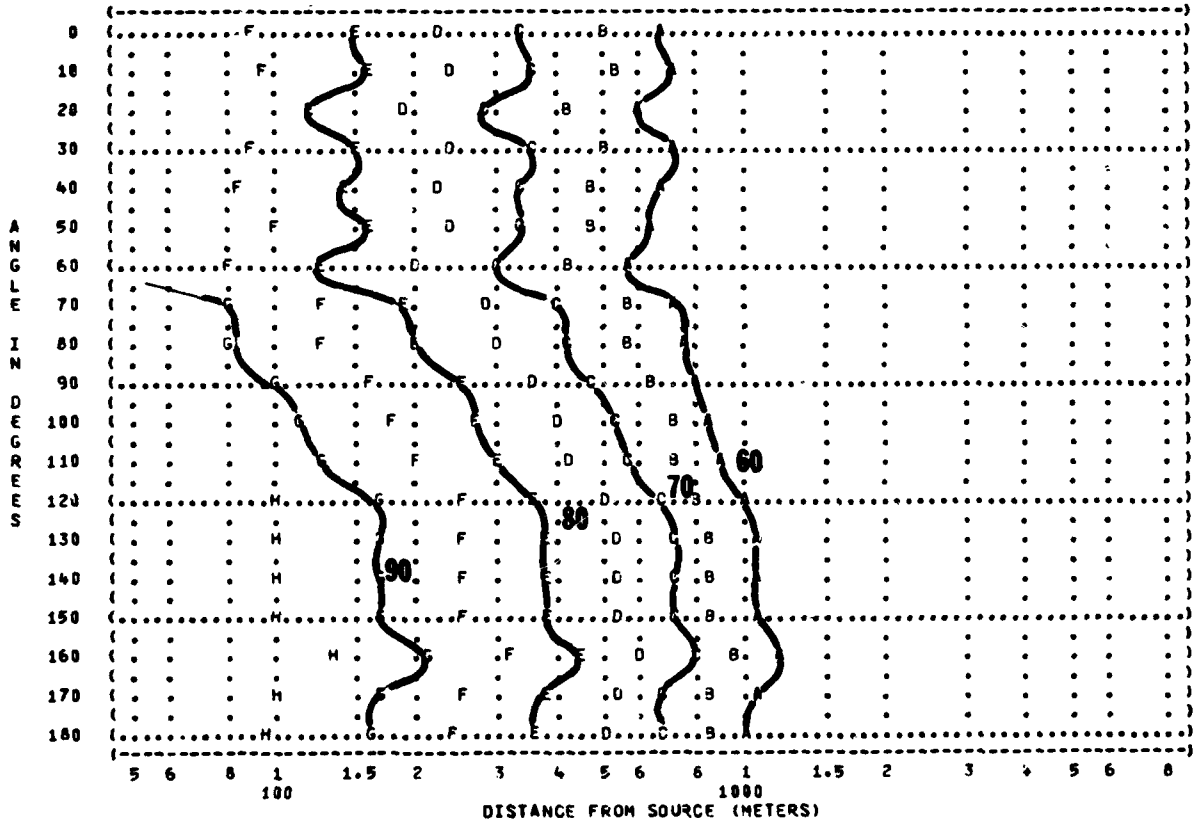


FIGURE 7.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-801
RUN 01
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

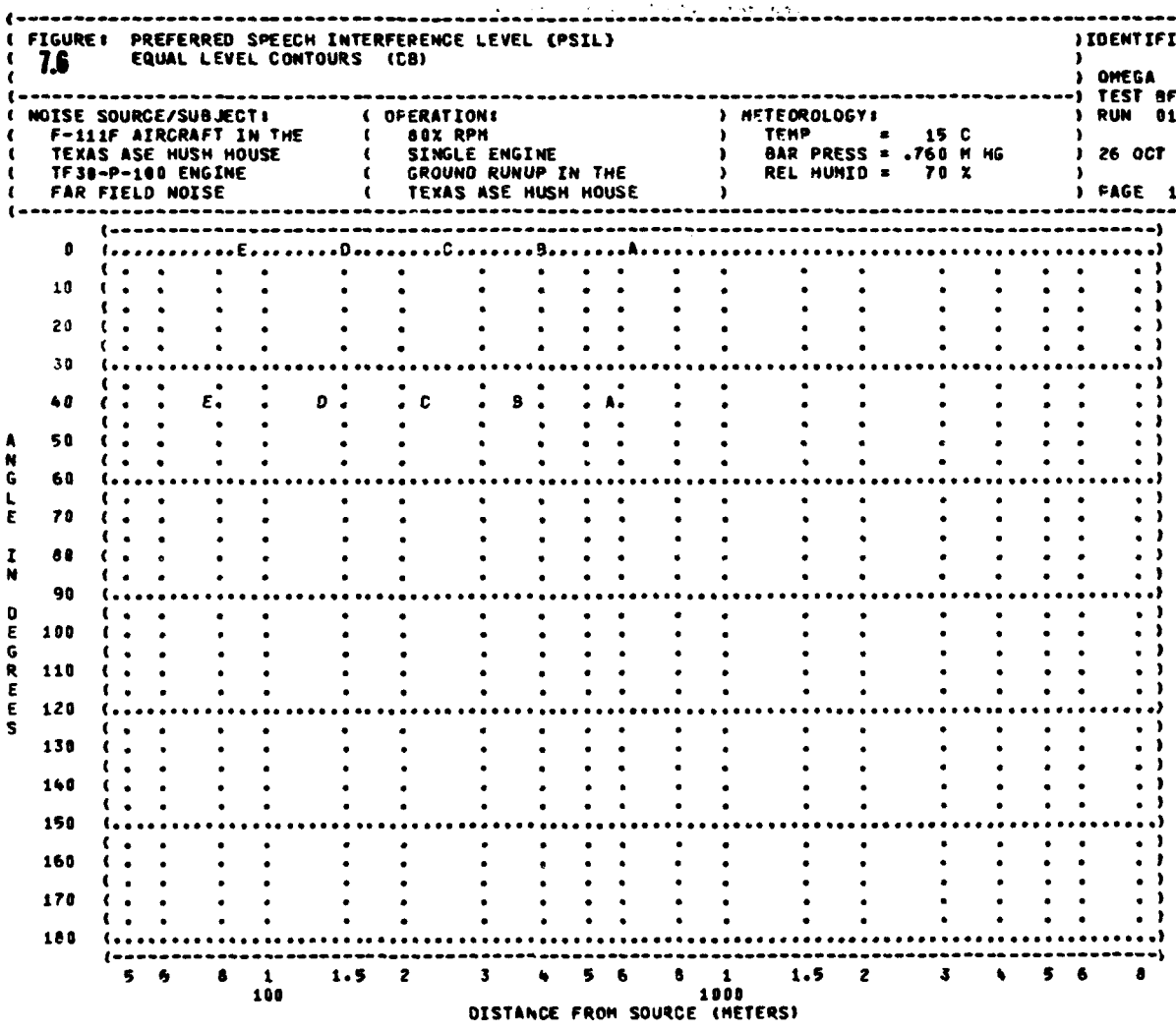


FIGURE 7.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 02
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

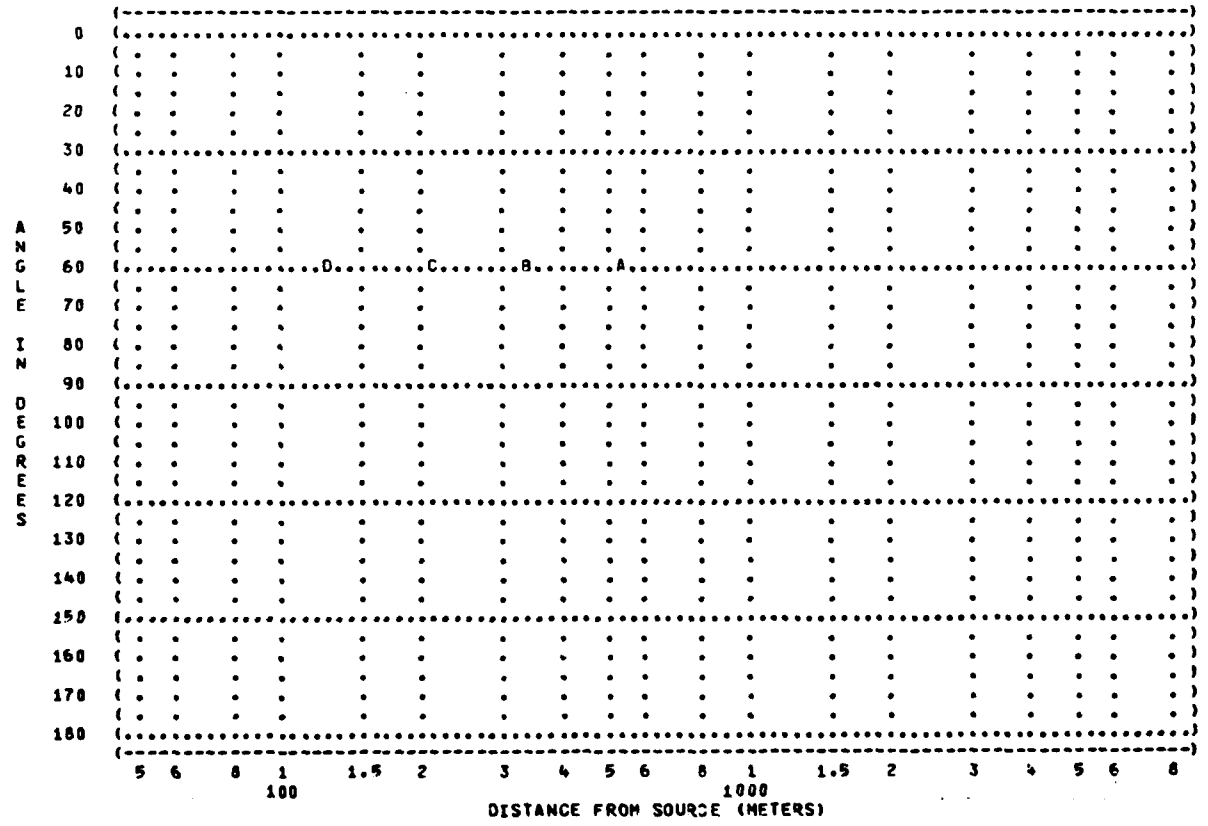


FIGURE: 7.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-081
RUN 03
26 OCT 81
PAGE 17

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

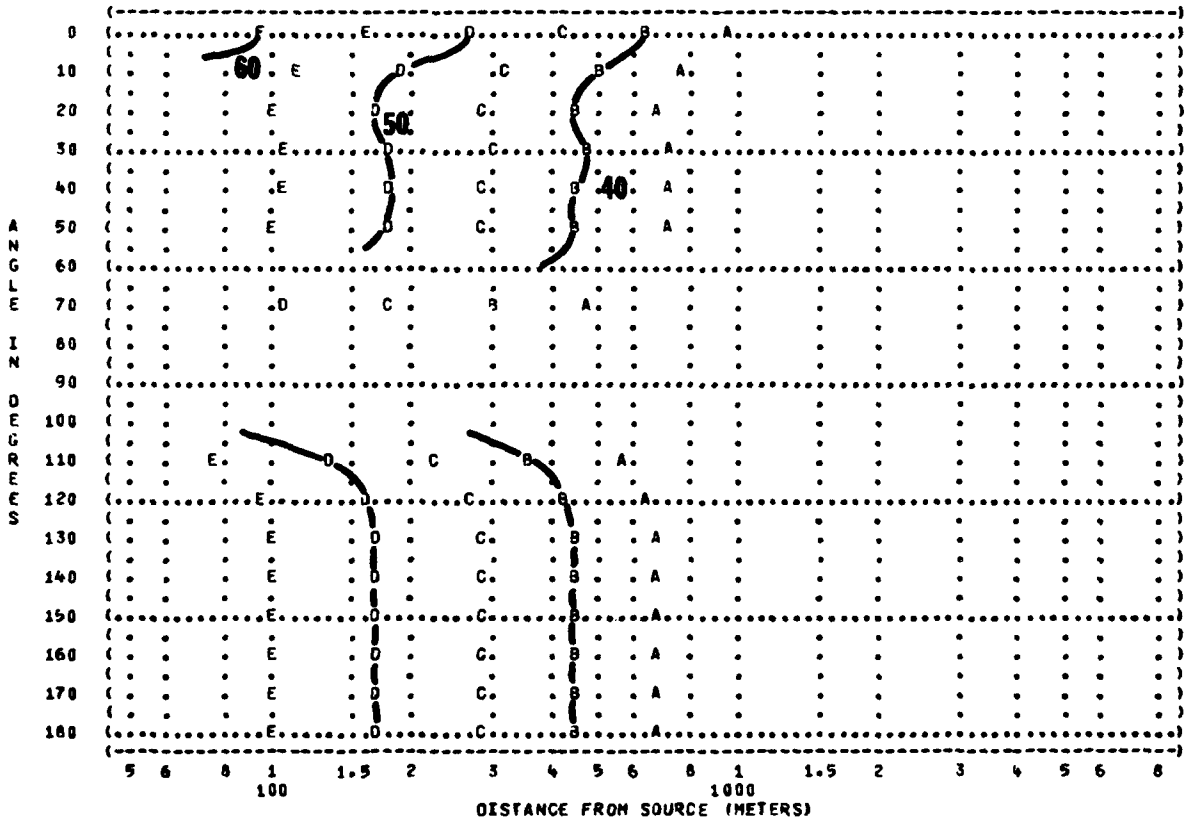


FIGURE: 7.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 04
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-108 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

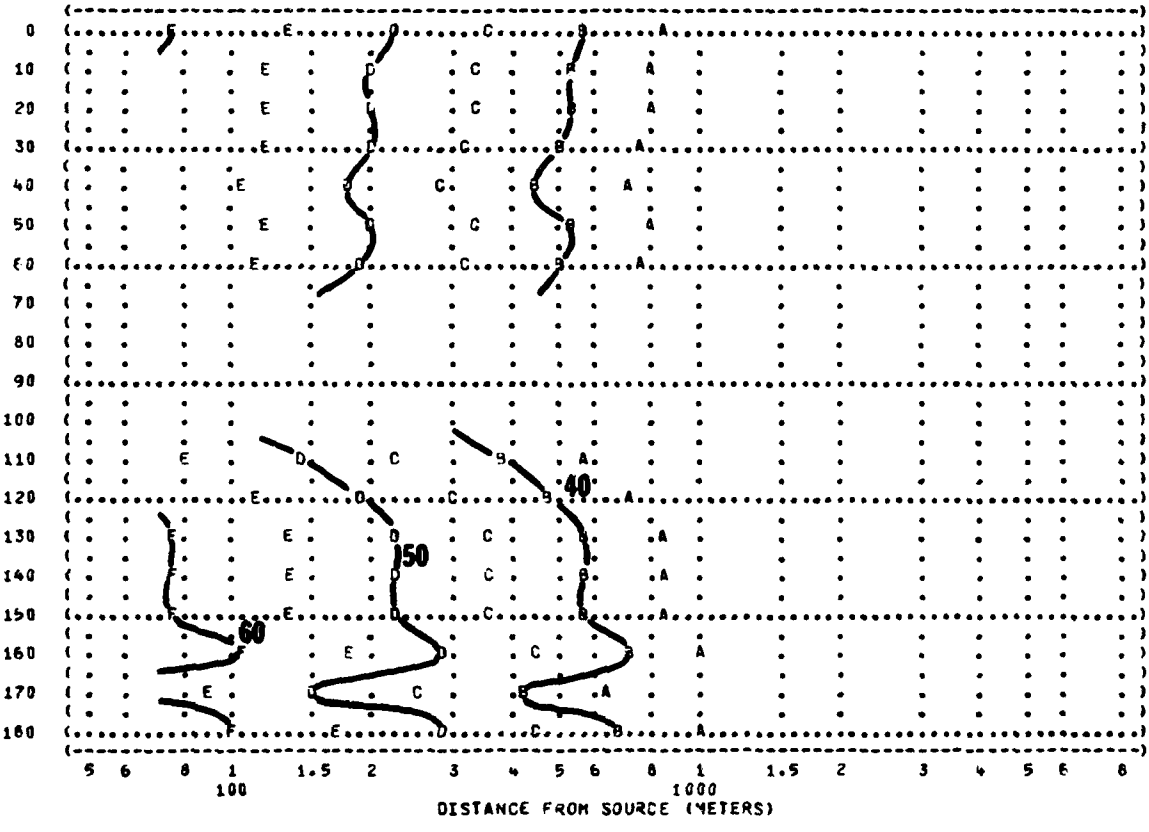


FIGURE: 7.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-081
RUN 05
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M MG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

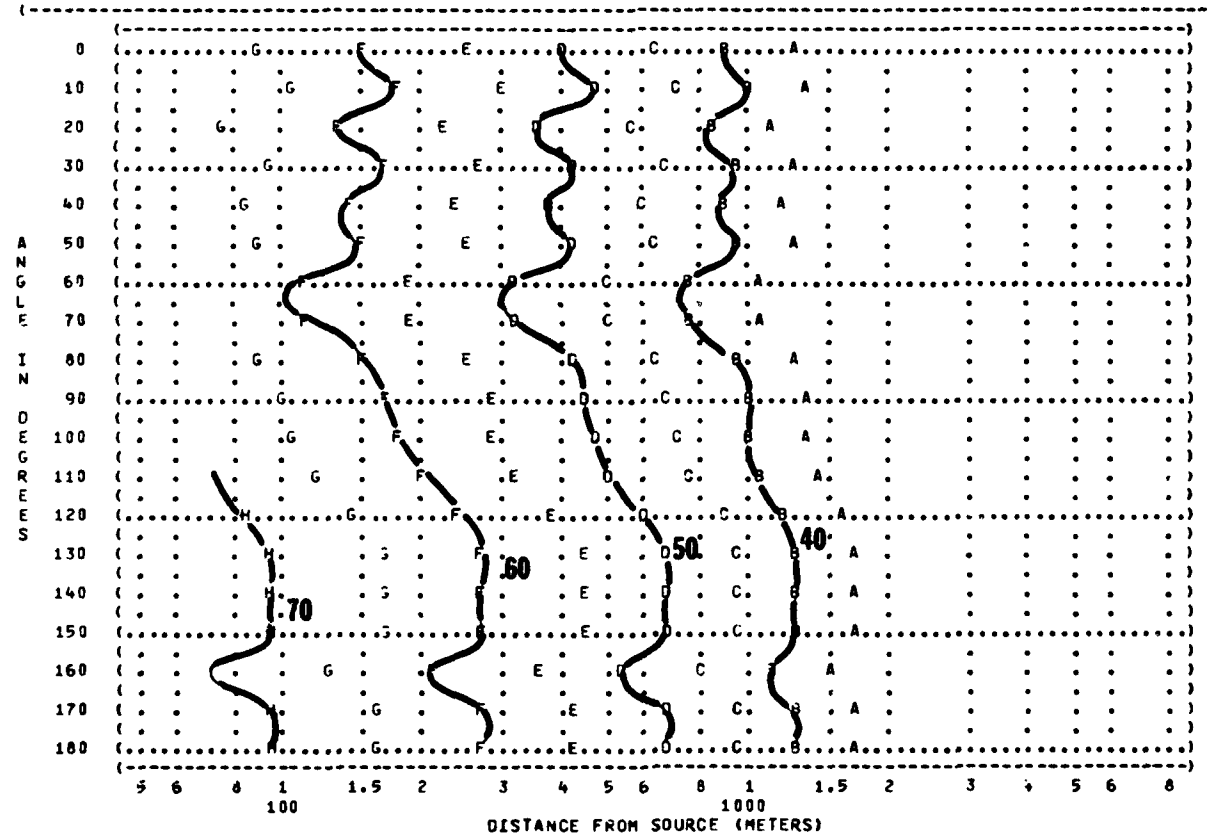


FIGURE 7.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 01
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

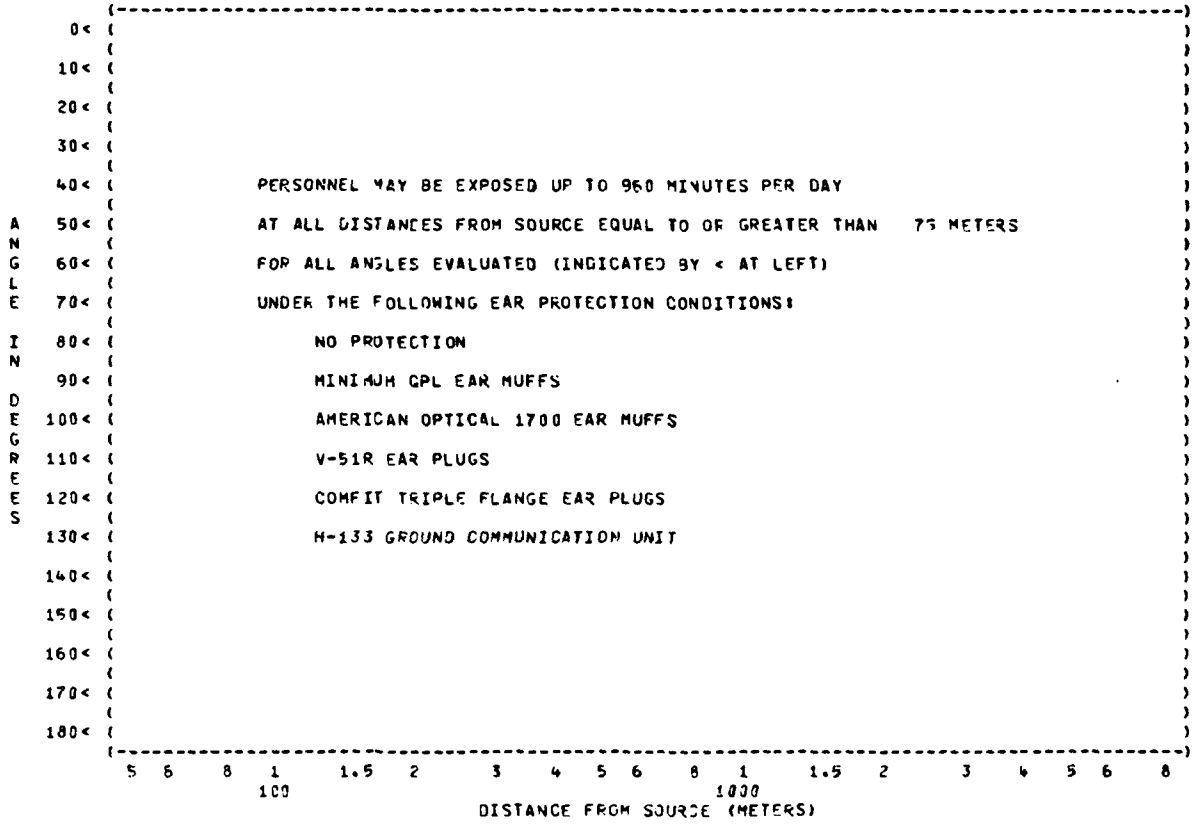


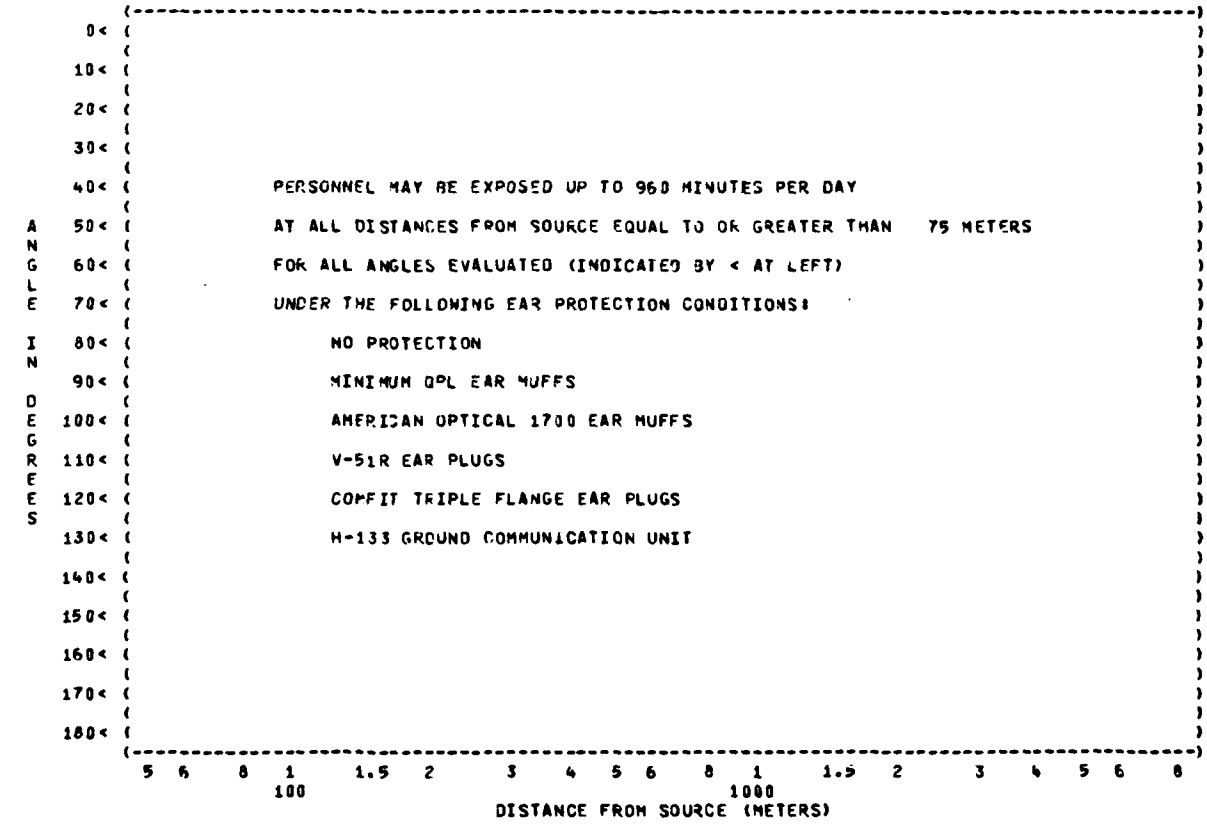
FIGURE: 7.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 02
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



ANGLE IN DEGREES

FIGURE 7.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-708-001
RUN 03
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

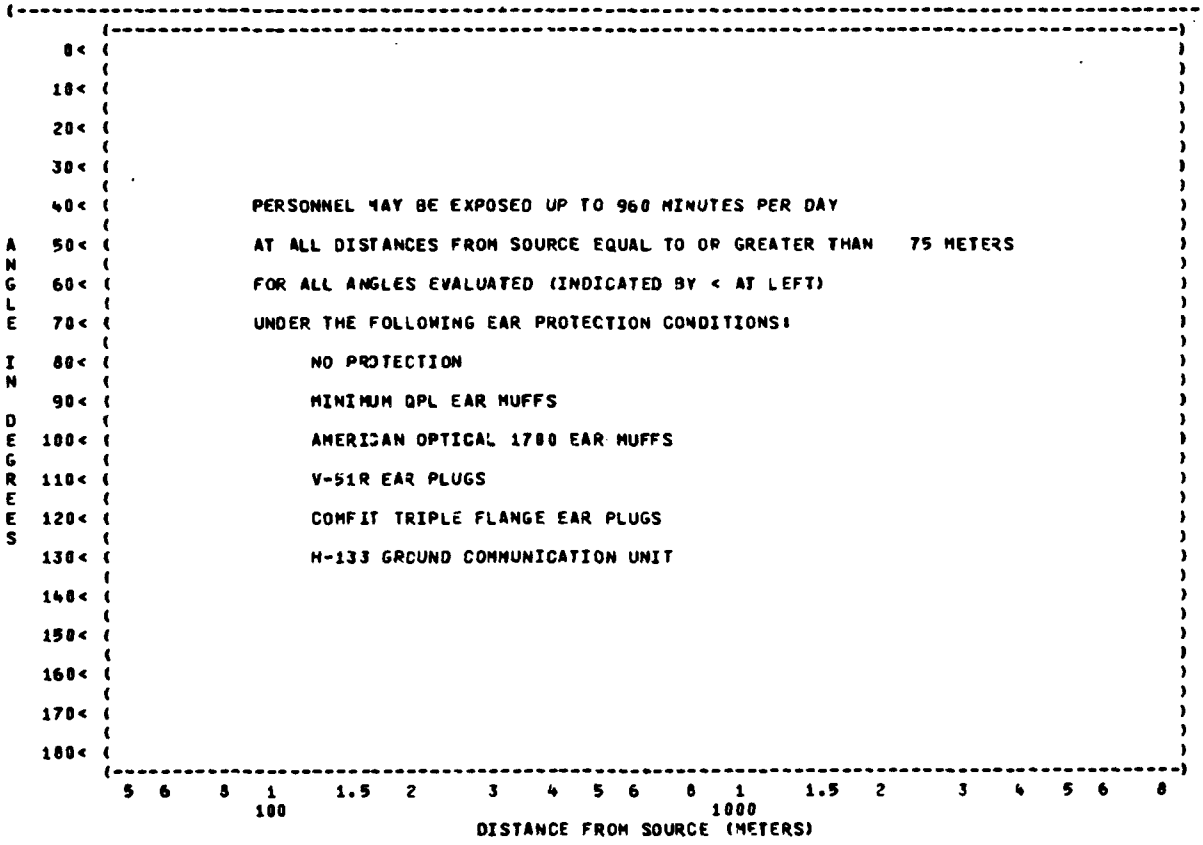


FIGURE: 7.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-881
RUN 8%
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

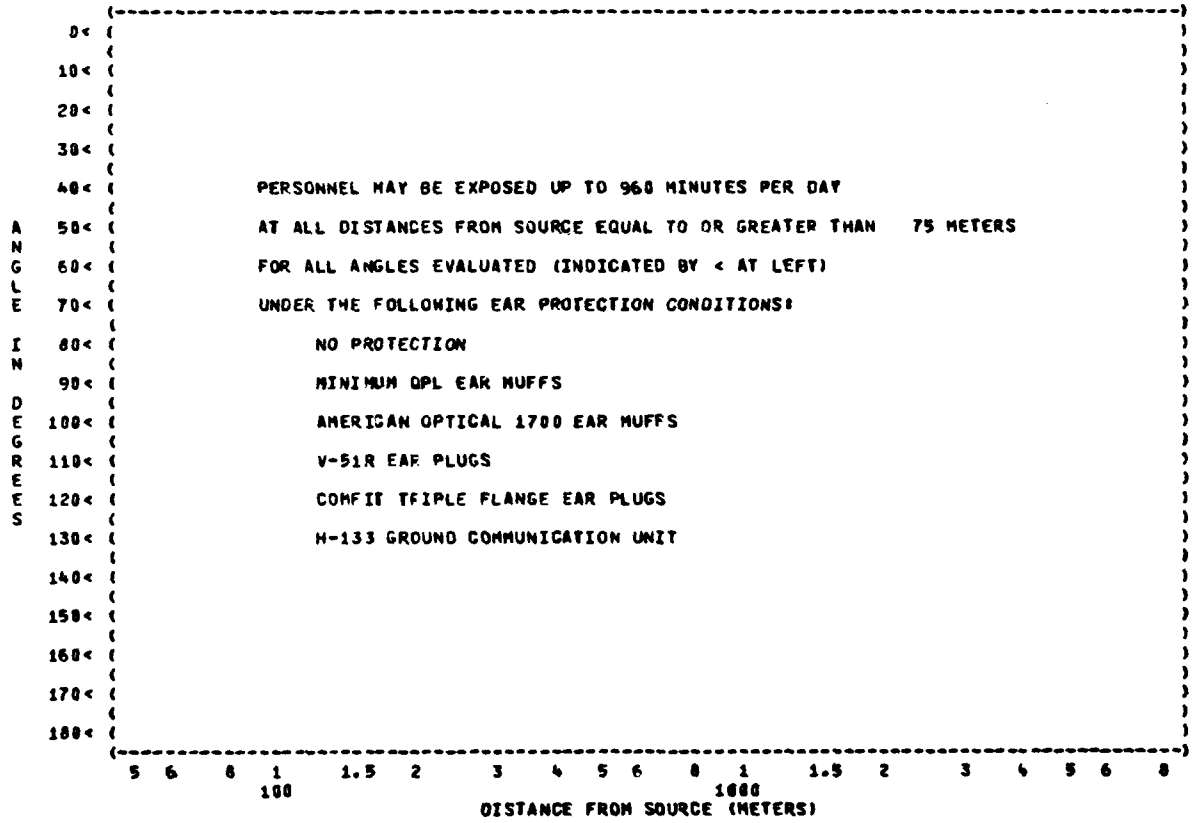


FIGURE: 7.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-881
RUN 05
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

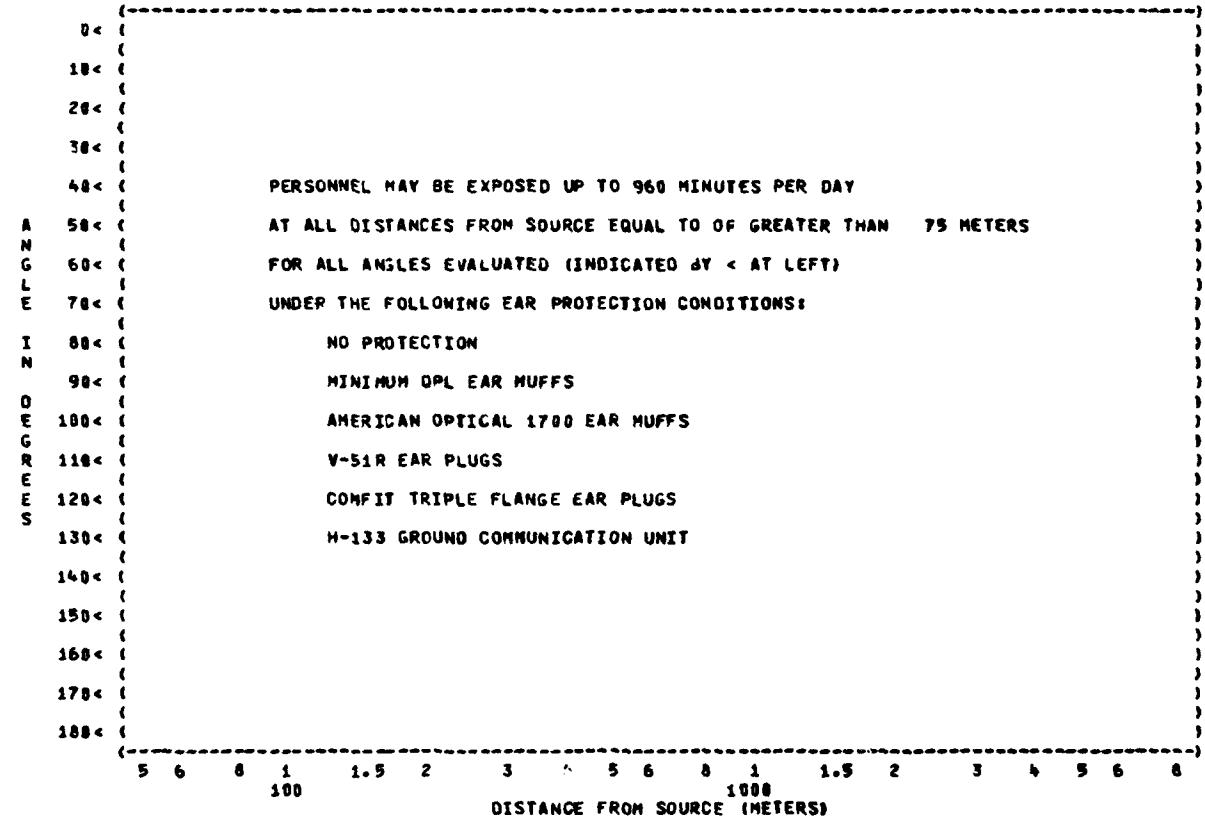


FIGURE: 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 01
26 OCT 81
PAGE 18

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

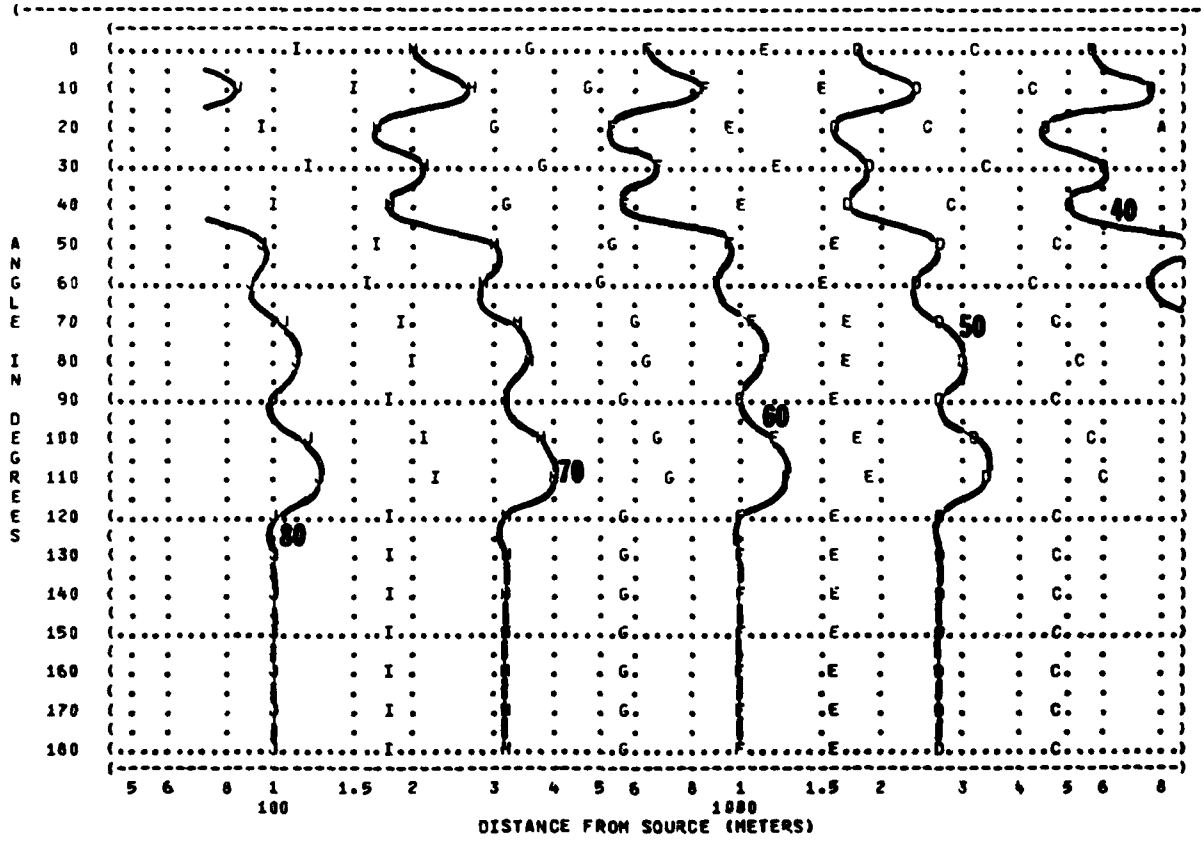


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-881
RUN 01
26 OCT 81
PAGE 19

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

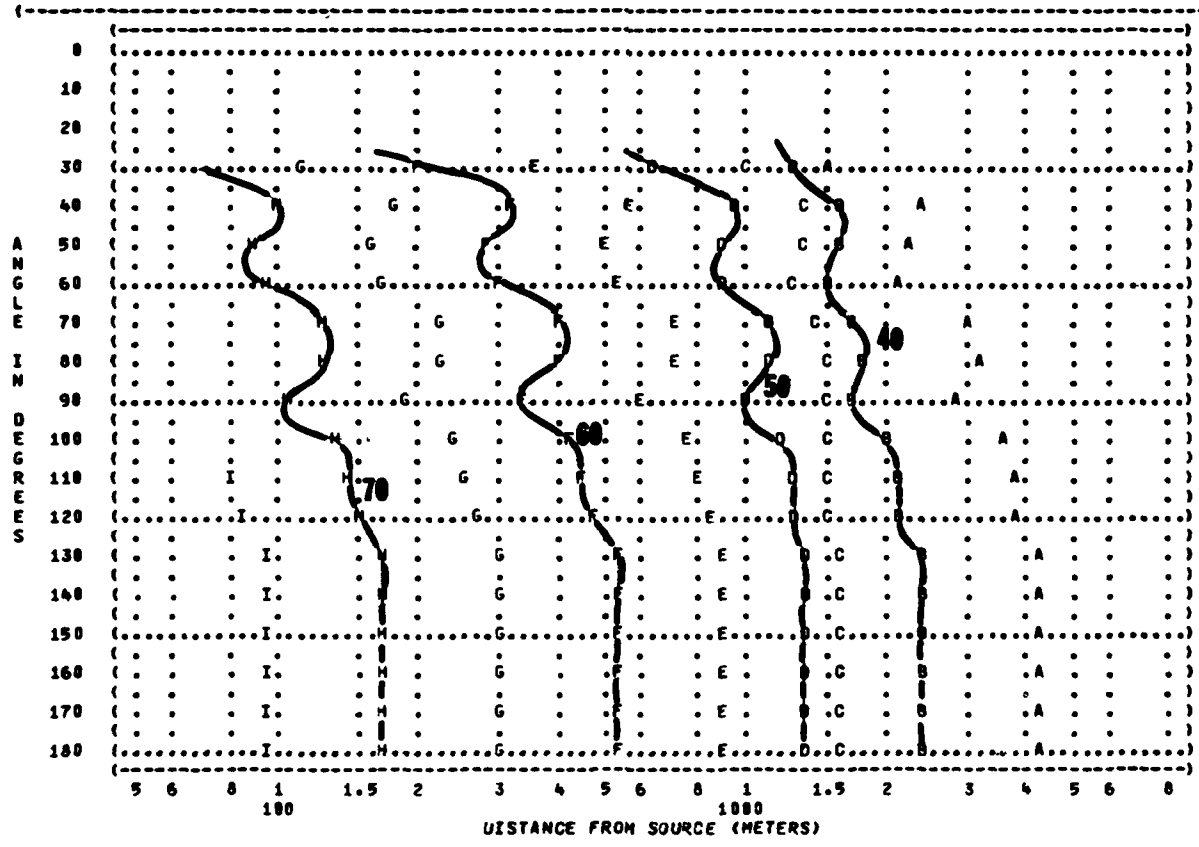


FIGURE: 78

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (D3)
63 HZ OCTAVE BAND

IDENTIFICATIONS:
OMEGA 1.4
TEST BF-708-881
RUN 81
26 OCT 81
PAGE 28

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

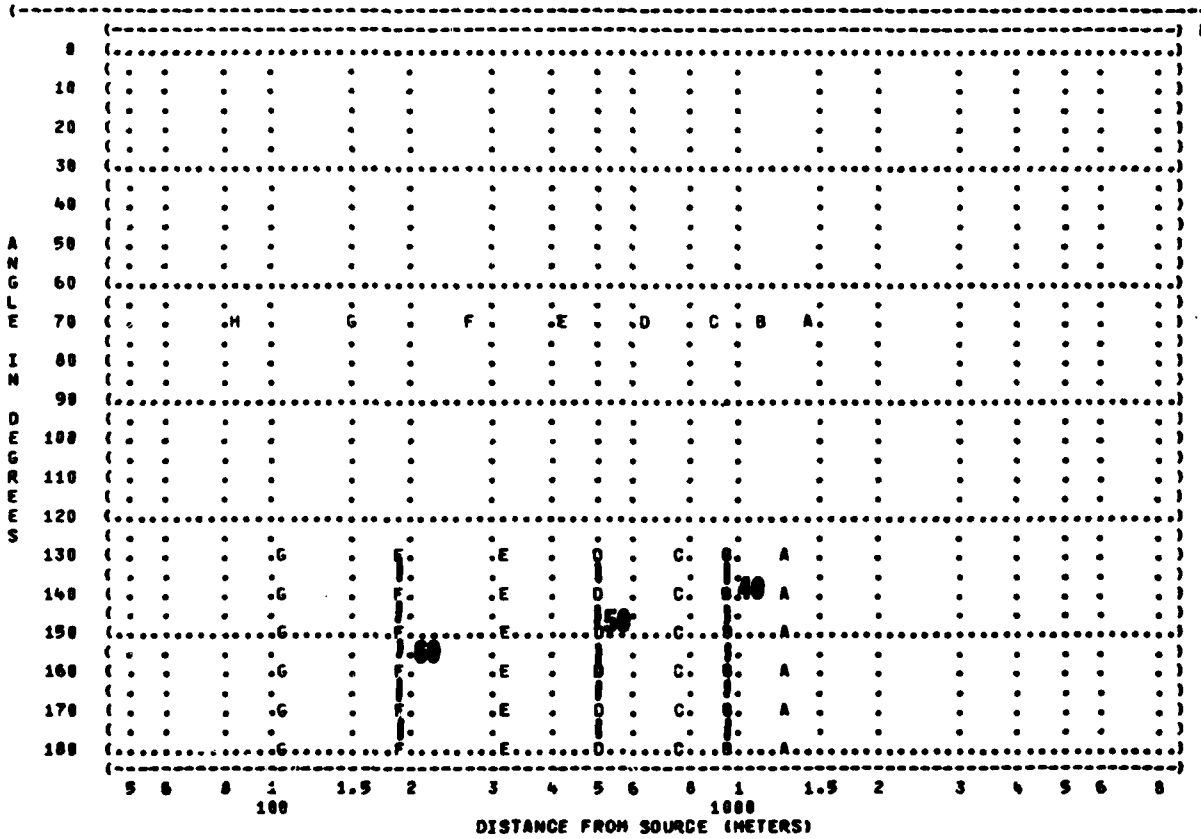


FIGURE: 78	SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND	IDENTIFICATION: OMEGA 1.4 TEST BF-788-881 RUN 81 26 OCT 81 PAGE 21
NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE	OPERATION: 80% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.8)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE:	SOUND PRESSURE LEVEL (SPL)			IDENTIFICATION:
7.8	EQUAL LEVEL CONTOURS (DB)			
	250 HZ OCTAVE BAND			OMEGA 1.4
				TEST BF-788-081
NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:		RUN 01
F-111F AIRCRAFT IN THE	80% RPM	TEMP = 15 C		
TEXAS ASE HUSH HOUSE	SINGLE ENGINE	BAR PRESS = .760 M HG		26 OCT 81
TF30-P-100 ENGINE	GROUND RUNUP IN THE	REL HUMID = 70 %		
FAR FIELD NOISE	TEXAS ASE HUSH HOUSE			PAGE 22

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-081
RUN 01
26 OCT 81
PAGE 23

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

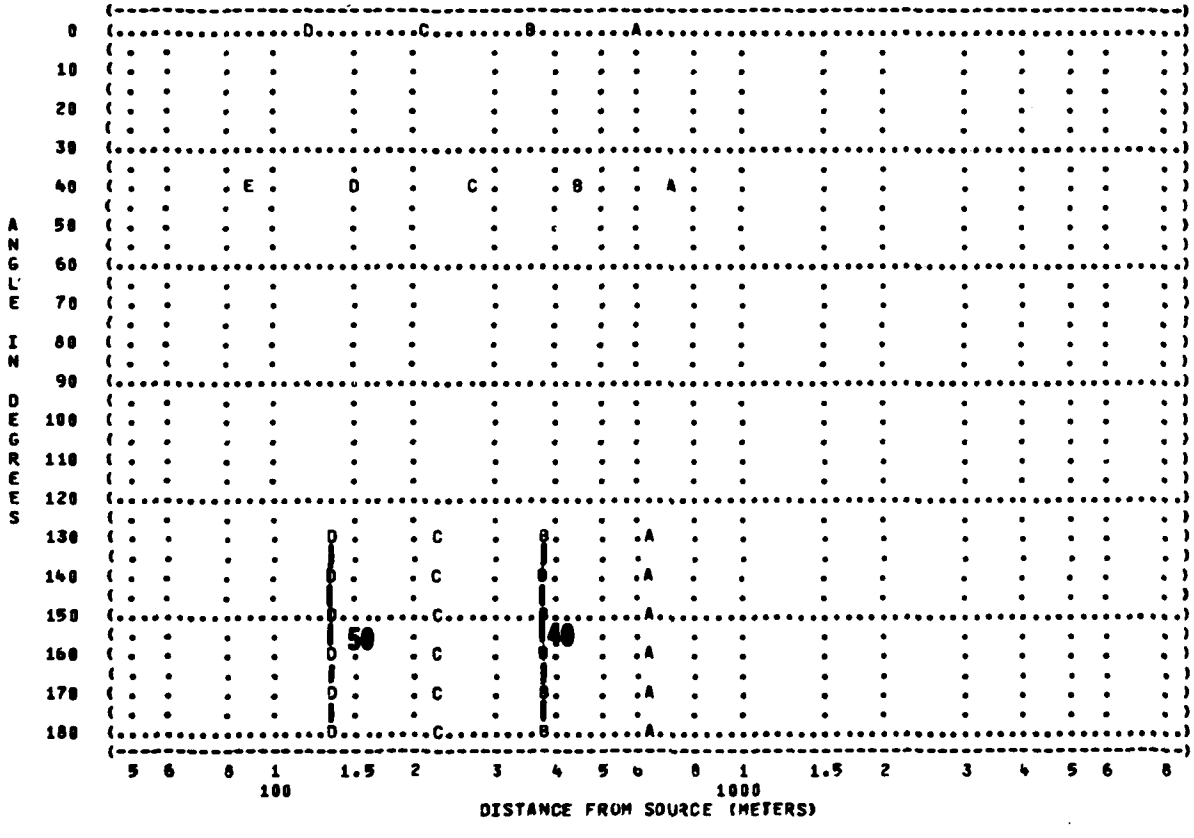


FIGURE: 78 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-700-001 RUN 01 26 OCT 81 PAGE 24

POINT	DB
A	55
B	48
C	45
D	50
E	55

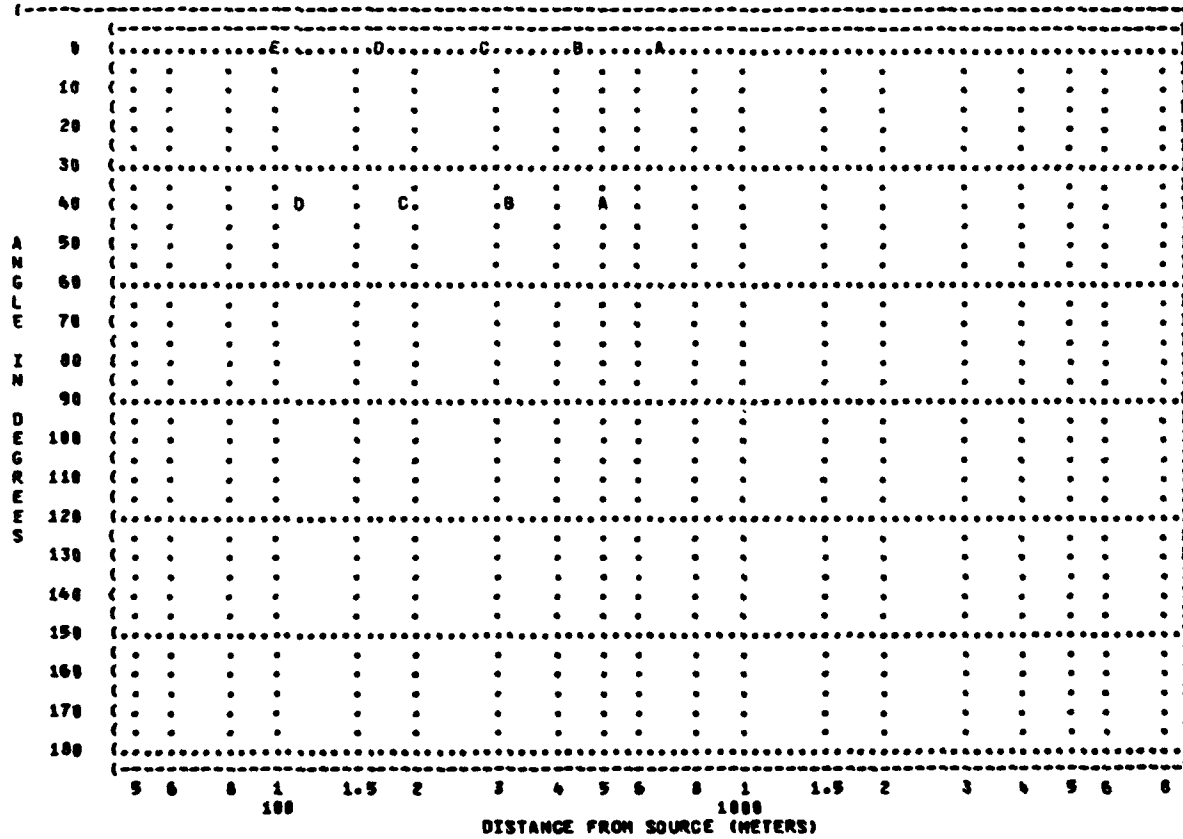


FIGURE: 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-081
RUN 01
26 OCT 81
PAGE 25

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-108 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

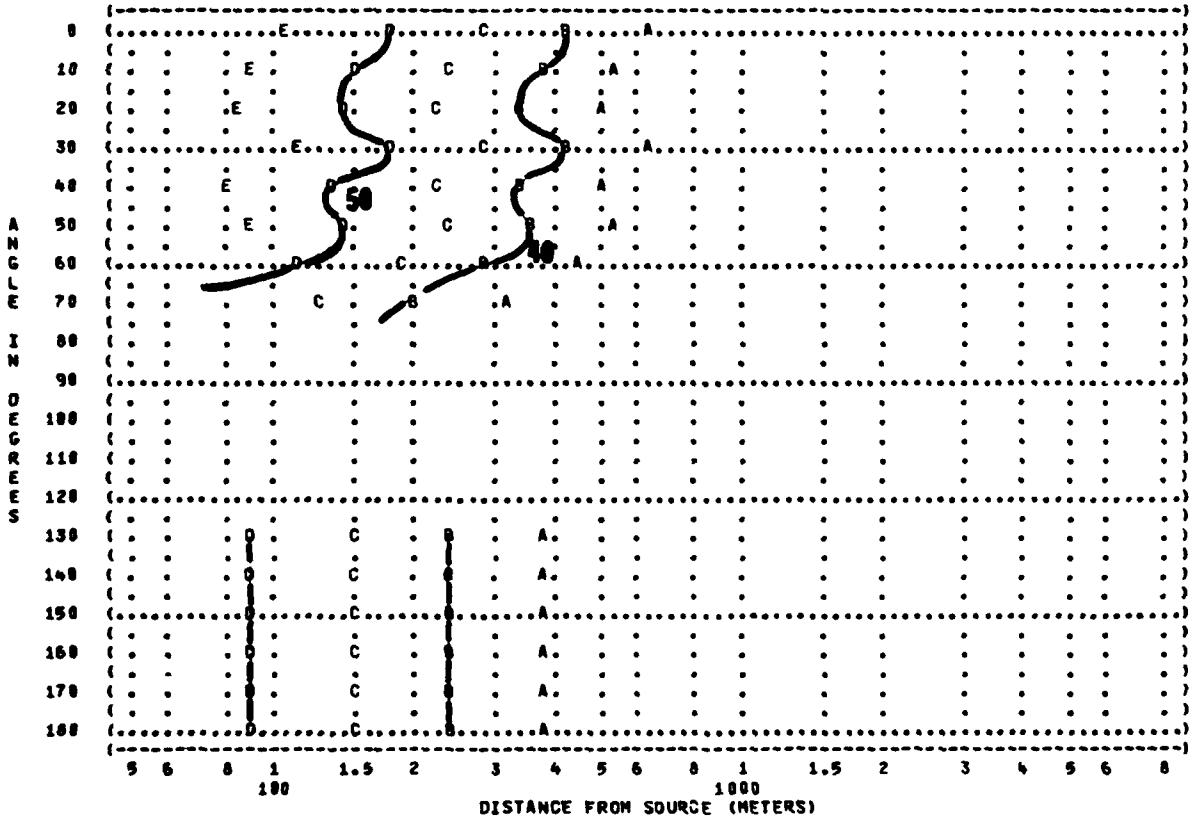


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-708-001 RUN 01 26 OCT 81 PAGE 26

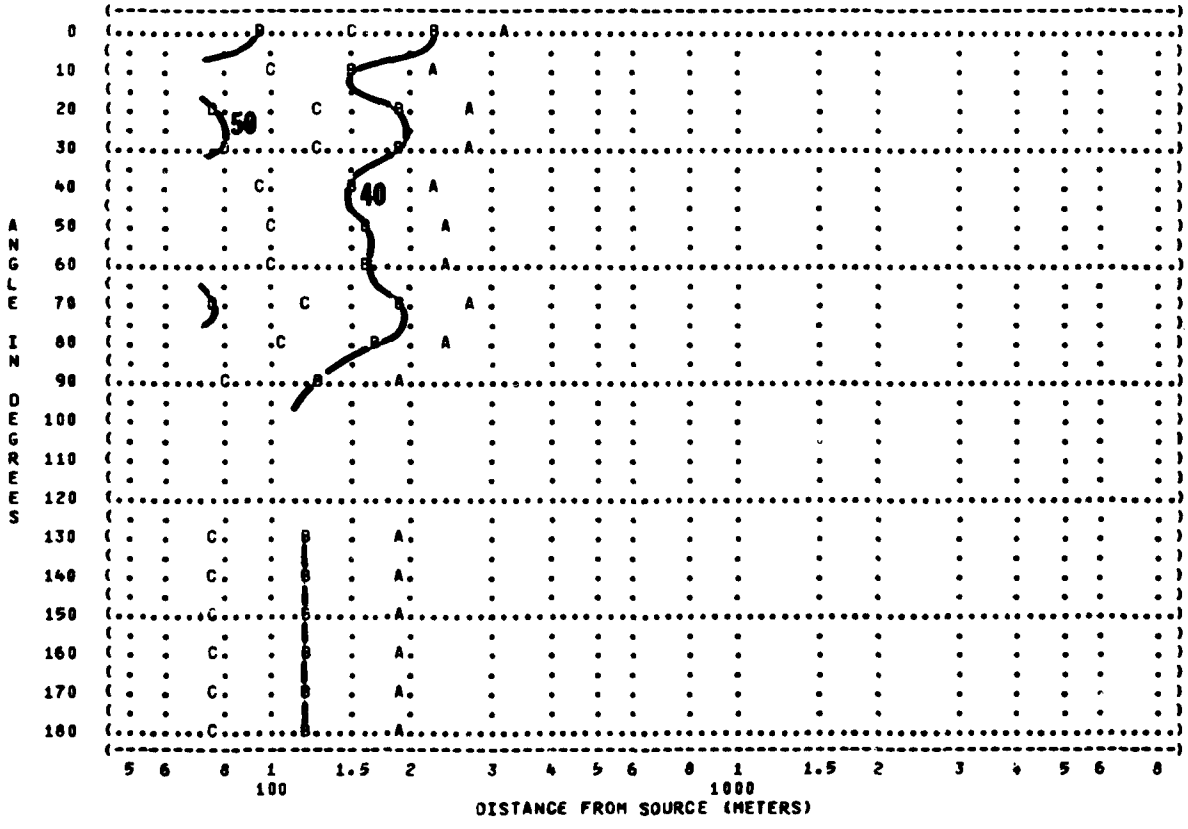


FIGURE: 7.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-108 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 IN HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 01
26 OCT 81
PAGE 27

POINT	DB
A	35
B	40
C	45
D	50

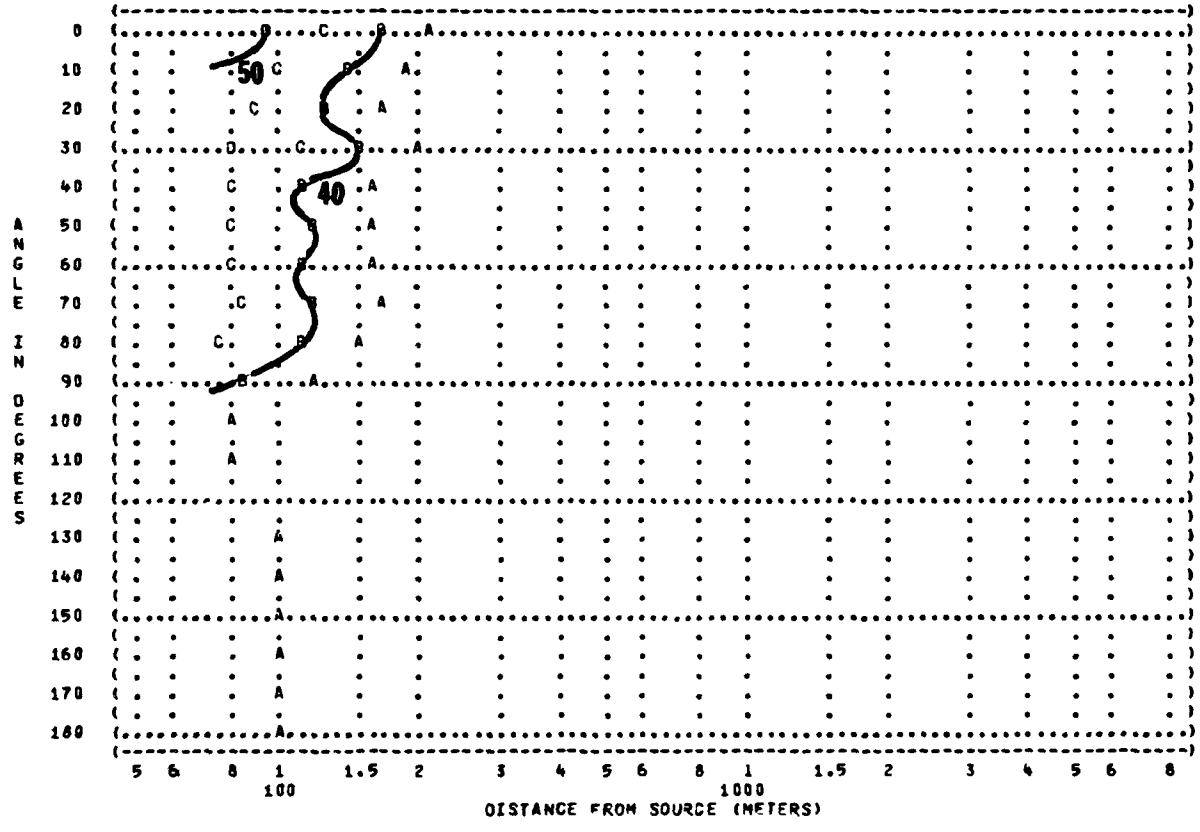


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-700-881
RUN 02
26 OCT 81
PAGE 18

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-108 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

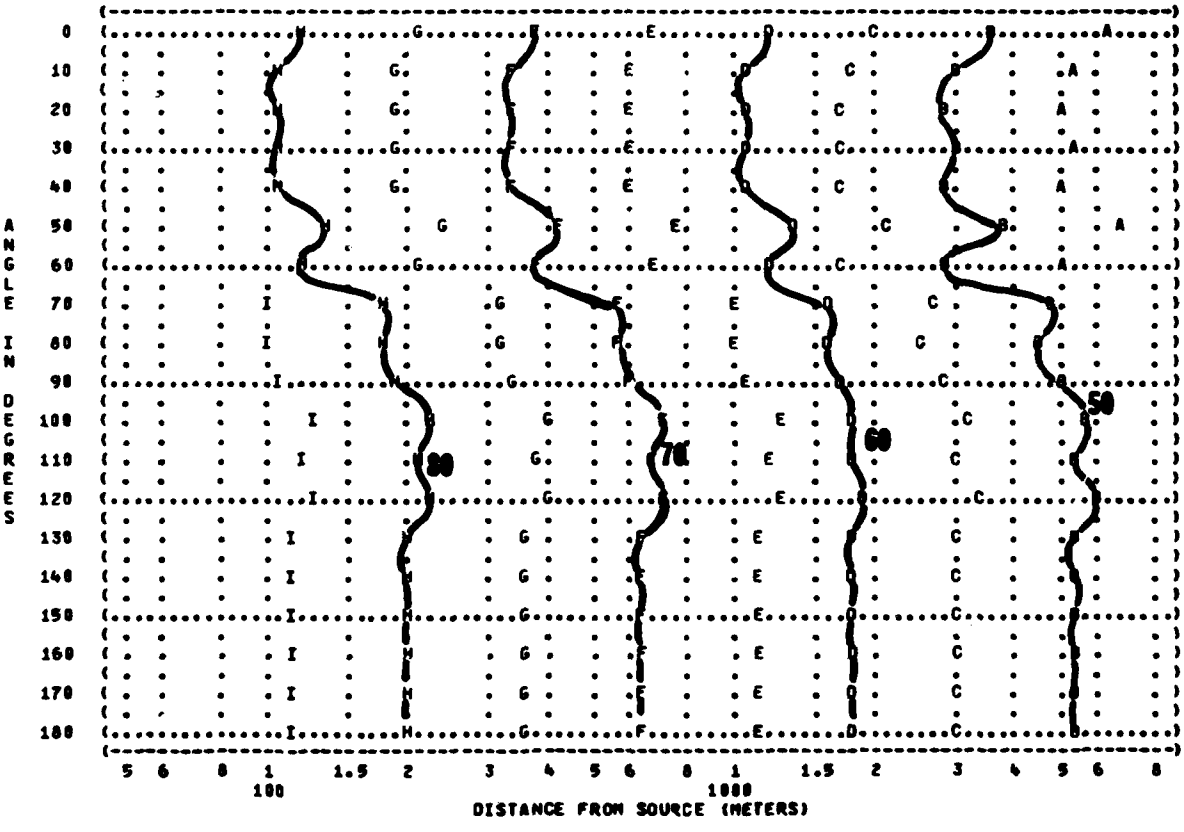


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 02
26 OCT 81
PAGE 19

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

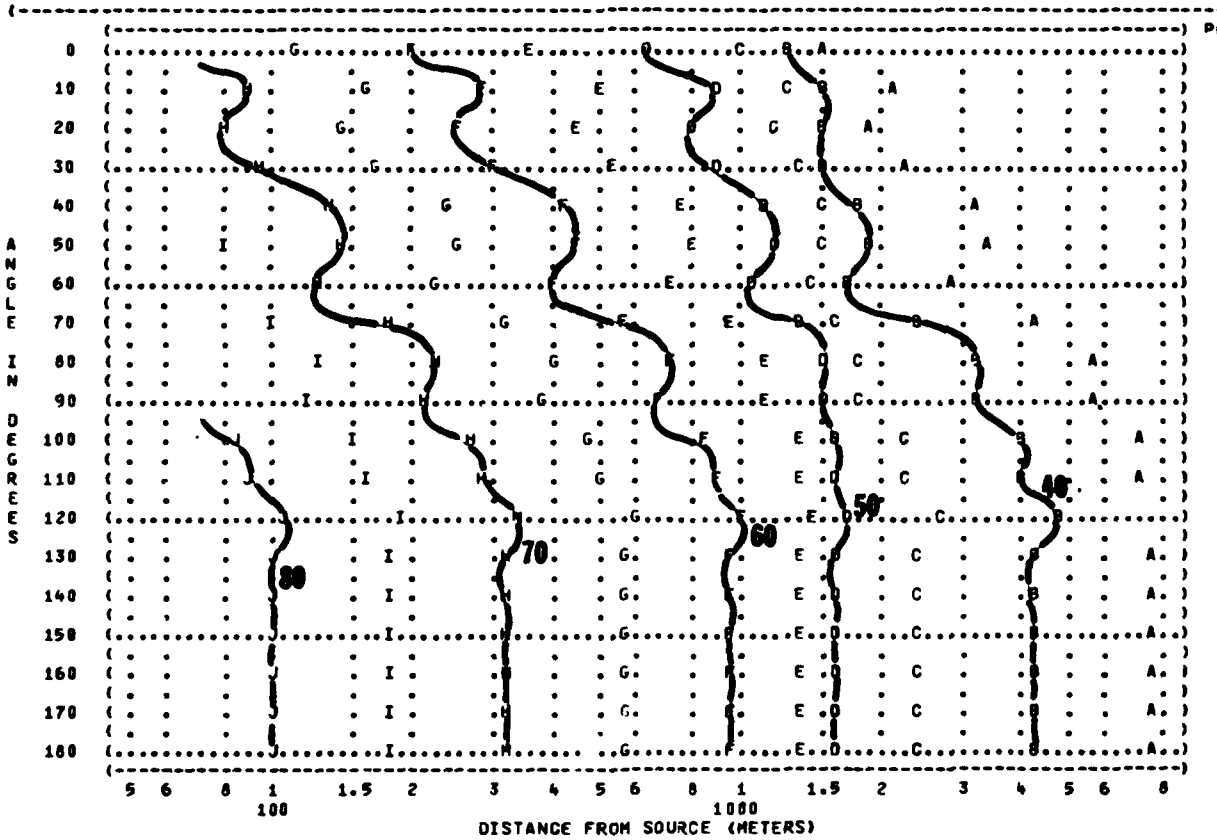


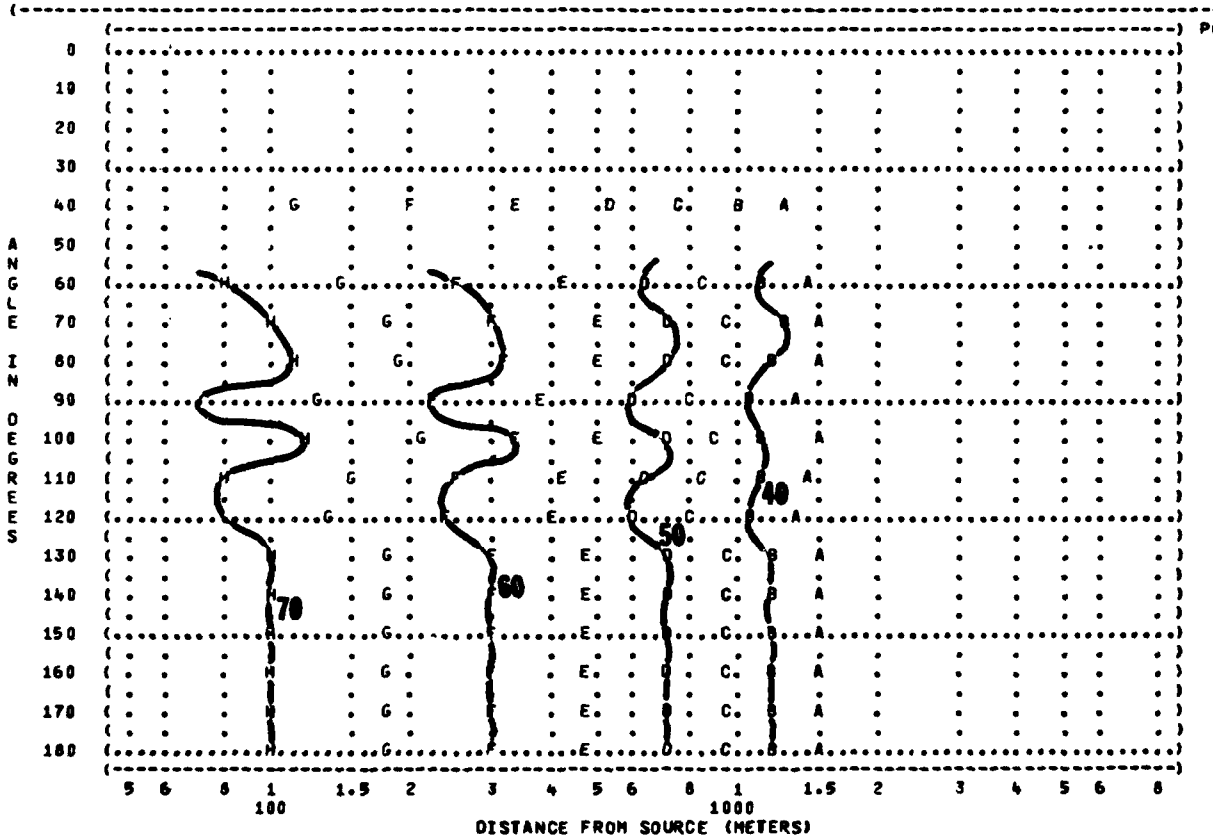
FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 02
26 OCT 81
PAGE 20



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE: 7.8	SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND		IDENTIFICATION: OMEGA 1.4 TEST BF-780-081
NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-108 ENGINE FAR FIELD NOISE	OPERATION: 85% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 78 %	RUN 82 26 OCT 81 PAGE 21

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-708-001 RUN 02 26 OCT 81 PAGE 22

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

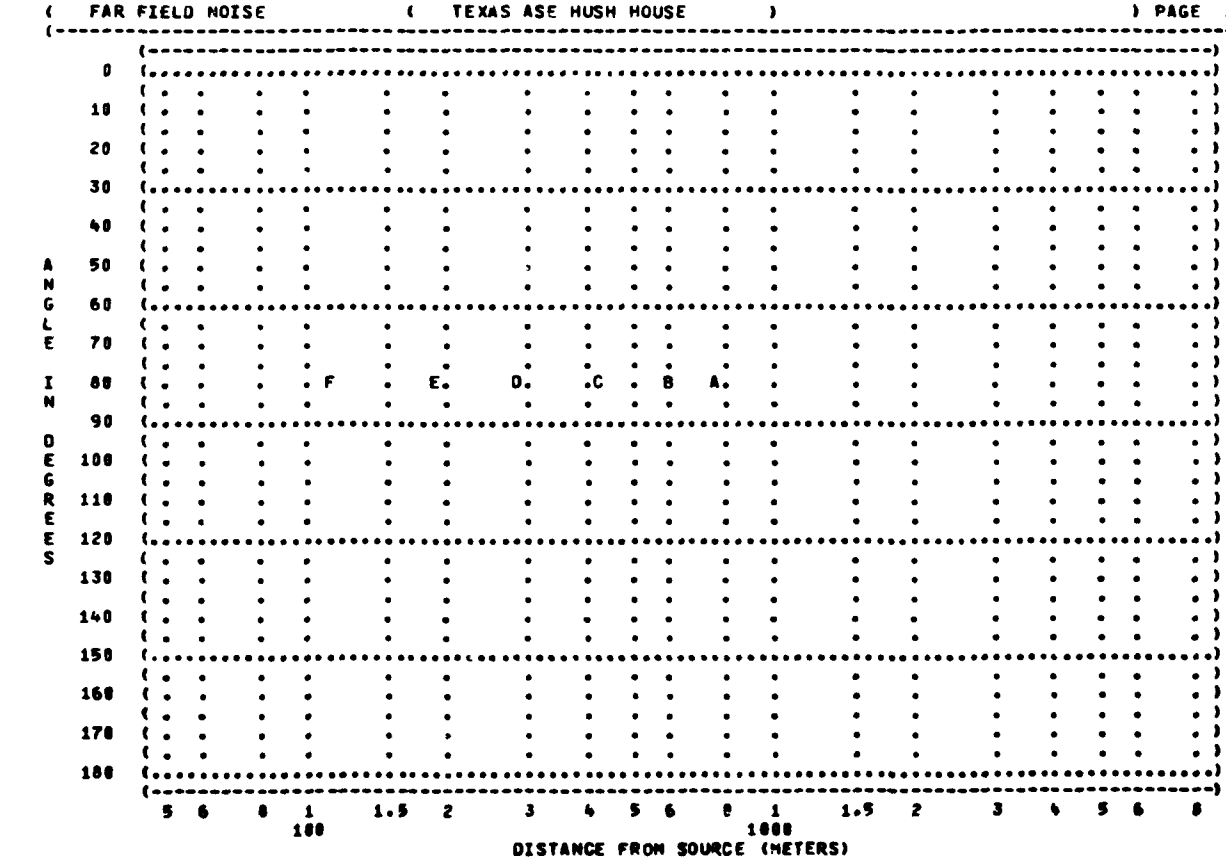


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-881
RUN 02
26 OCT 81
PAGE 23

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

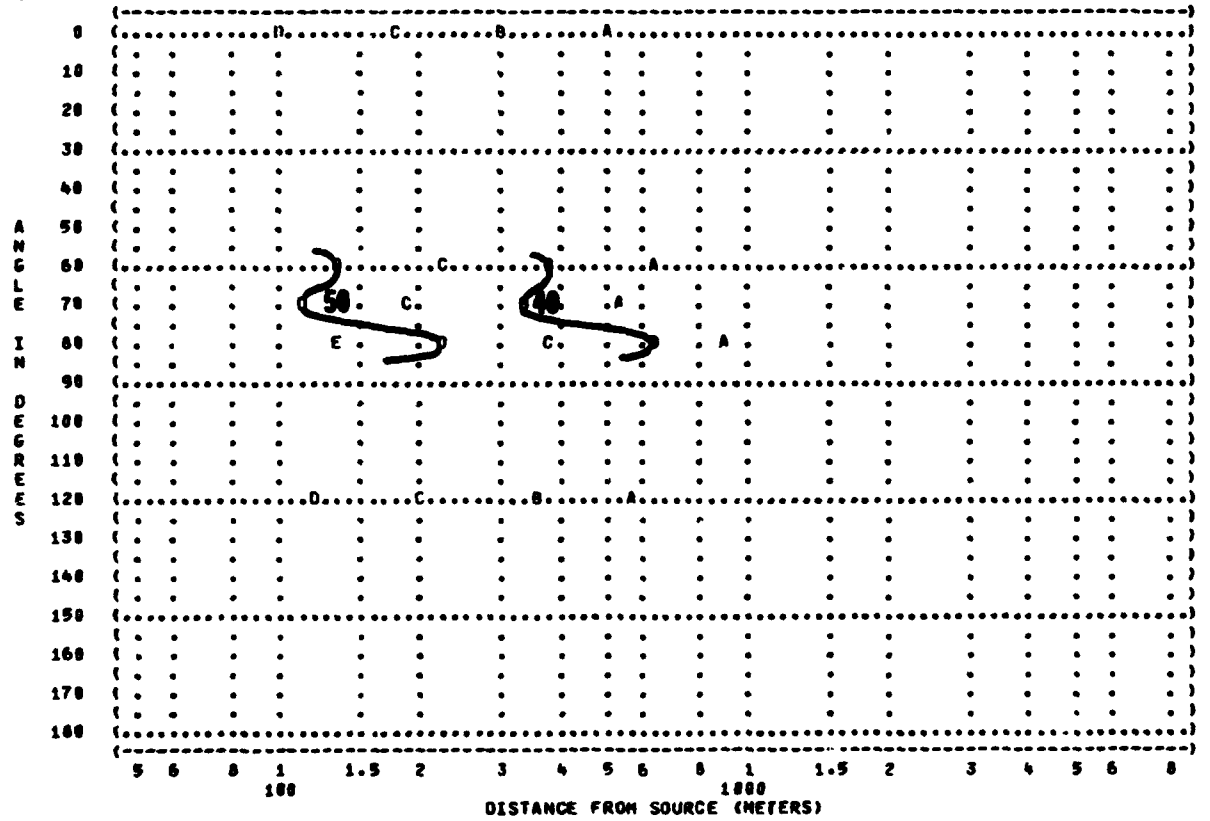


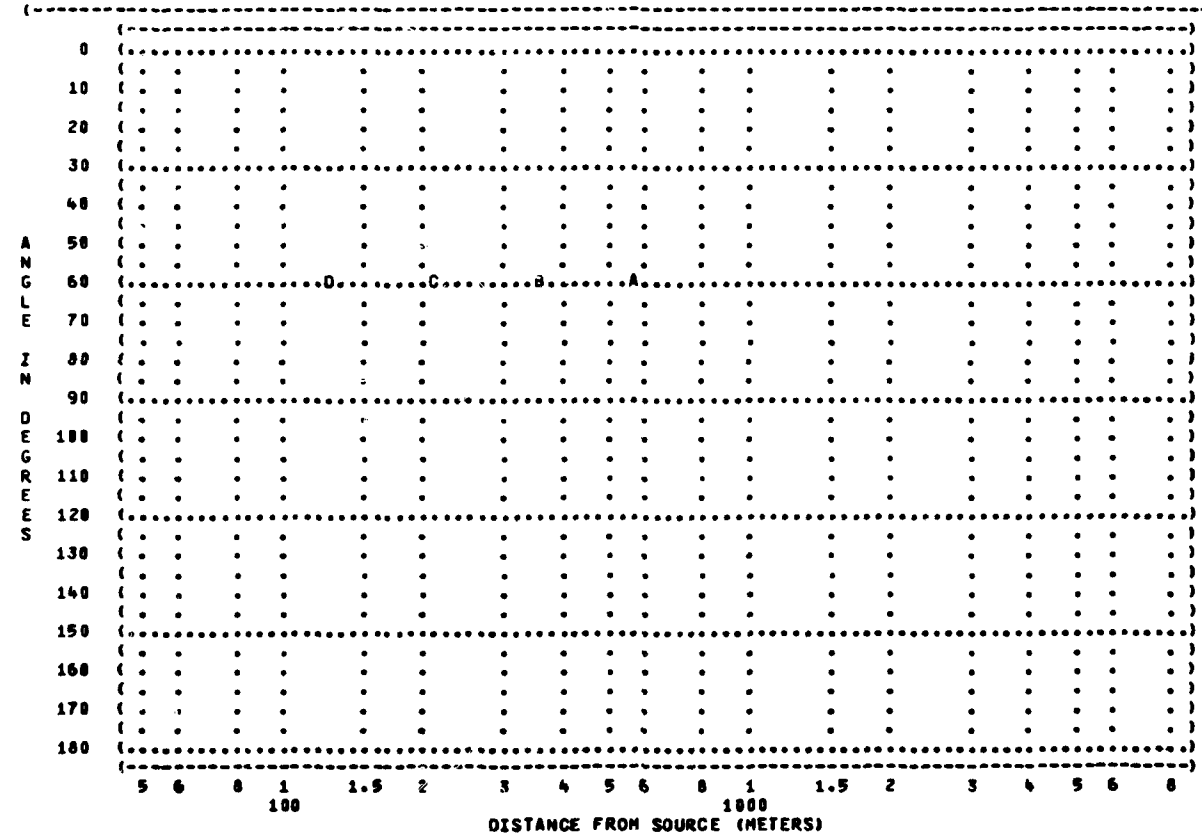
FIGURE: 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-081
RUN 02
26 OCT 81
PAGE 24



POINT	DB
A	35
B	40
C	45
D	50

FIGURE: 78 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 78 %

IDENTIFICATION: OMEGA 1.4 TEST BF-708-881 RUN 02 26 OCT 81 PAGE 25

POINT	DB
A	35
B	40
C	45
D	50
E	55

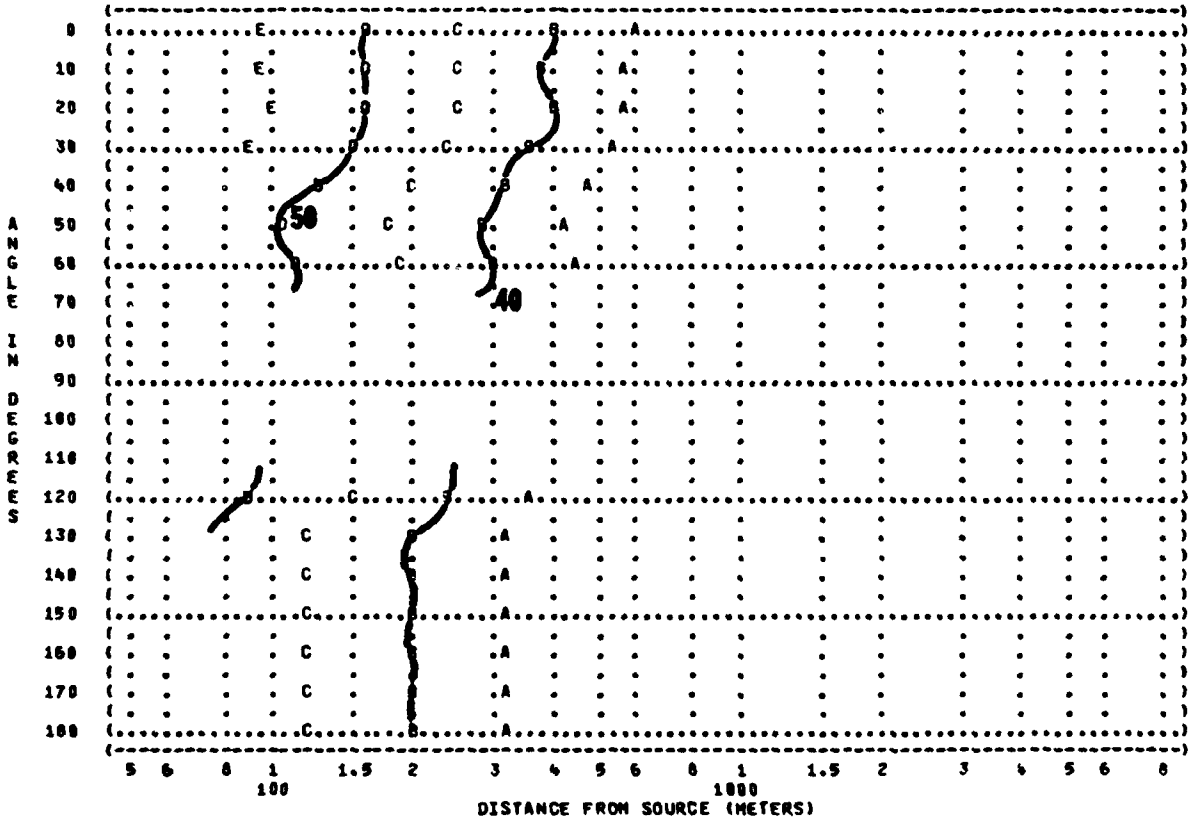


FIGURE: 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-780-881
RUN 02
26 OCT 81
PAGE 26

POINT	DB
A	35
B	40
C	45

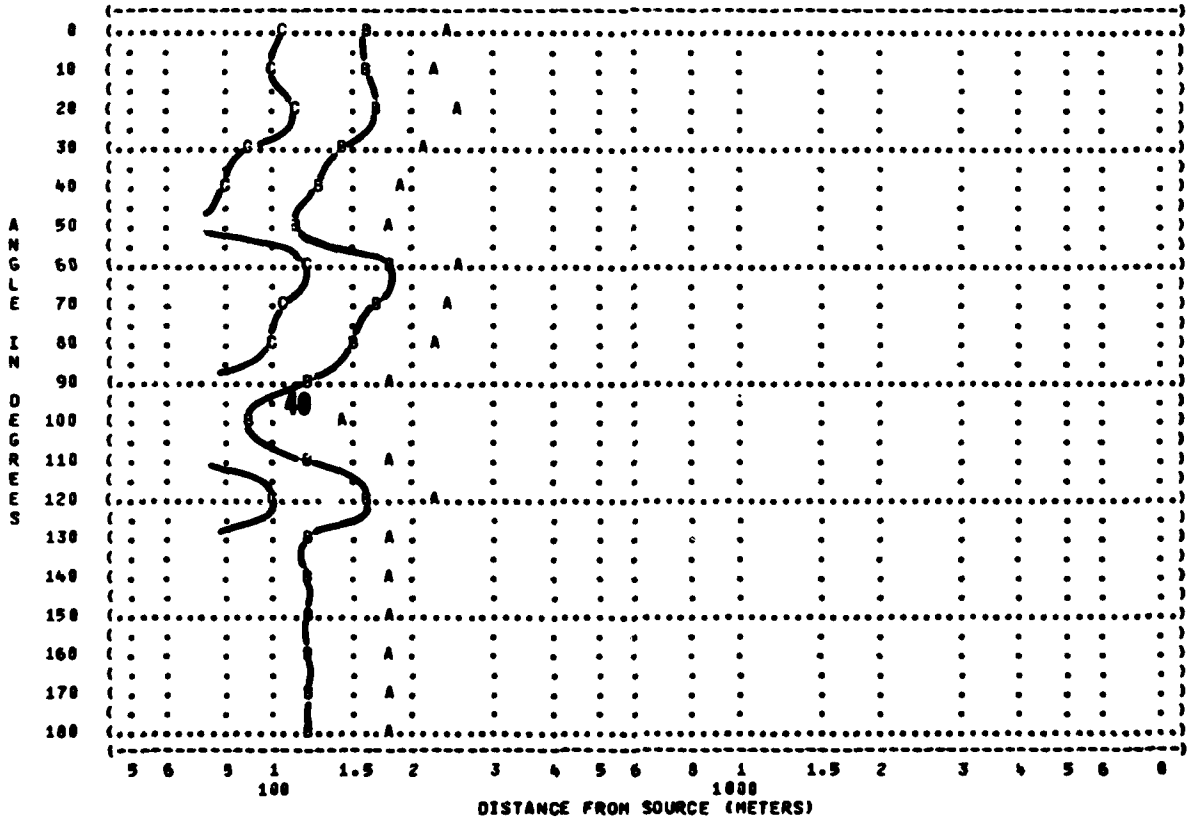


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 H HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-708-881 RUN 02 26 OCT 81 PAGE 27

POINT	DB
A	35
B	40
C	45
D	50

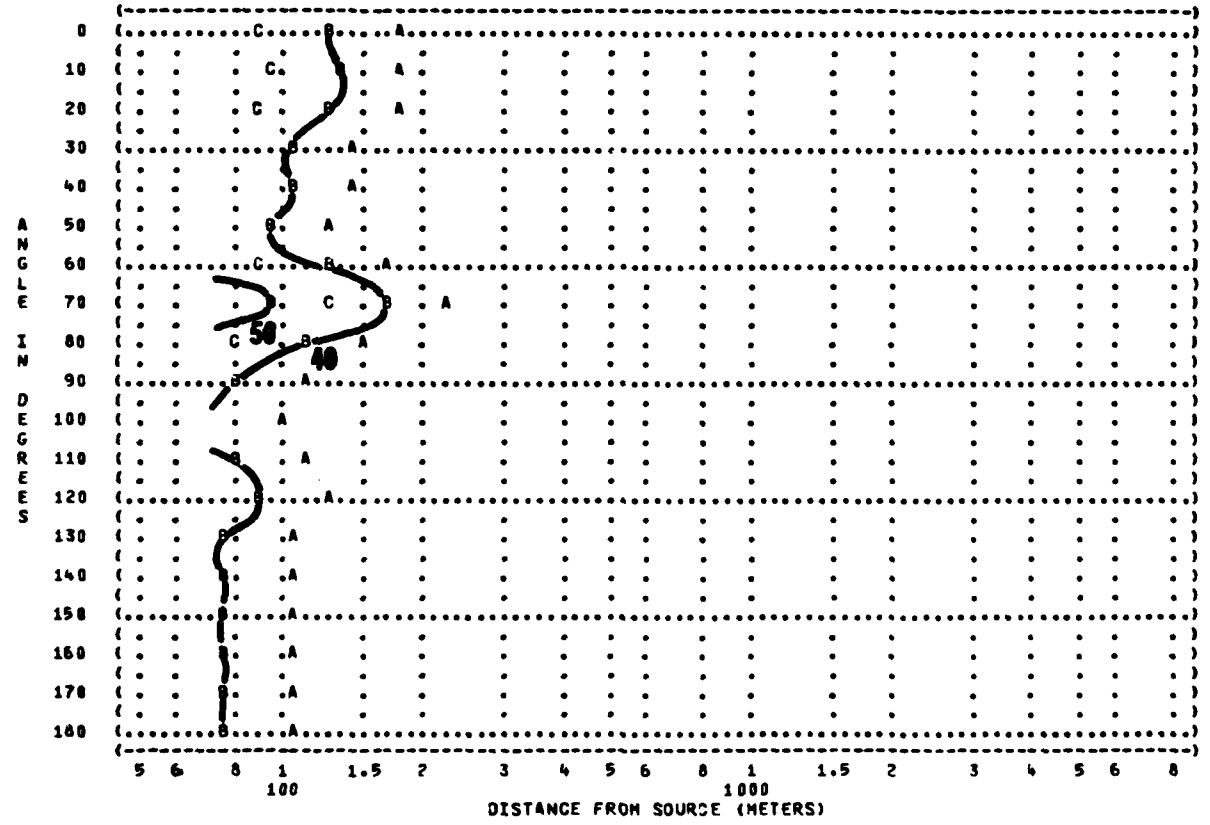


FIGURE: 7.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-081
RUN 03
26 OCT 81
PAGE 18

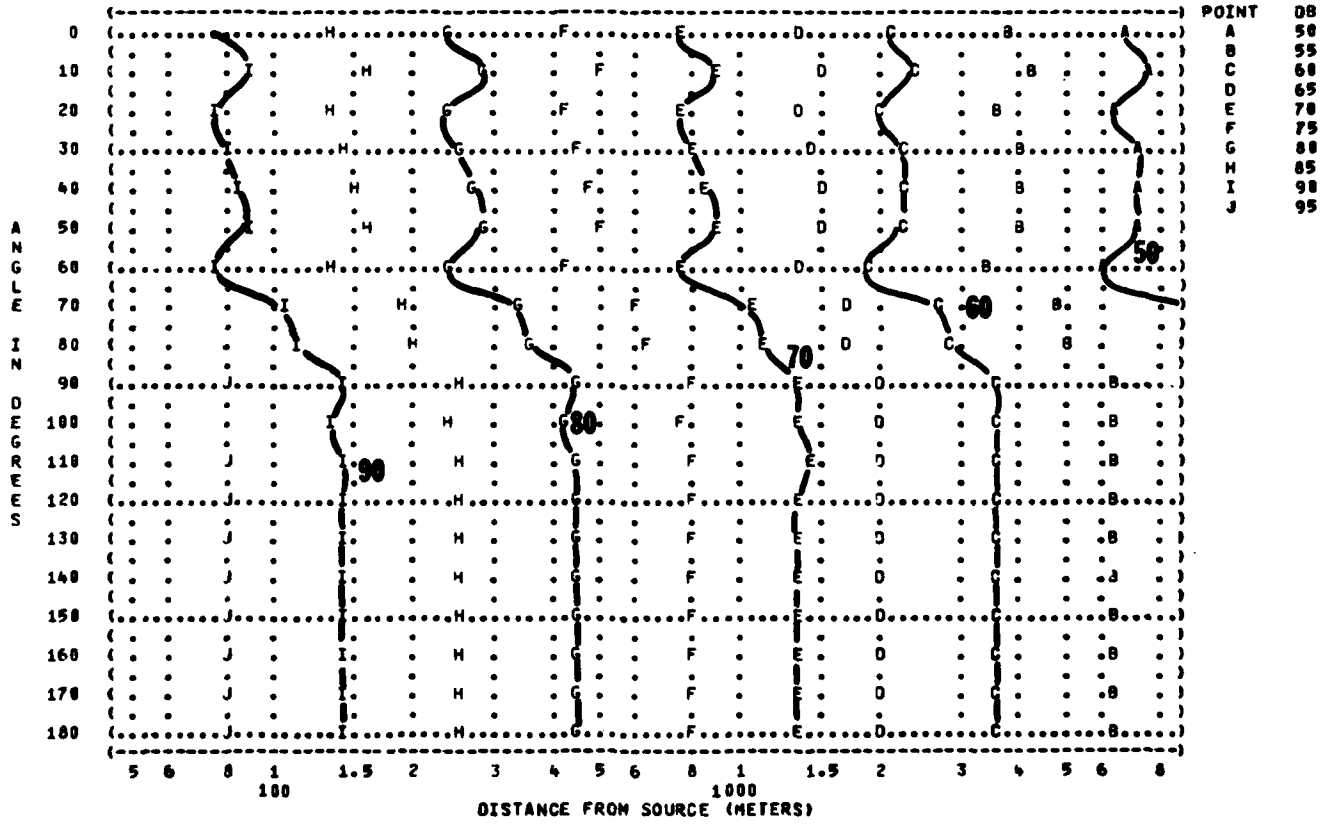


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST AF-708-001
RUN 03
26 OCT 81
PAGE 19

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90

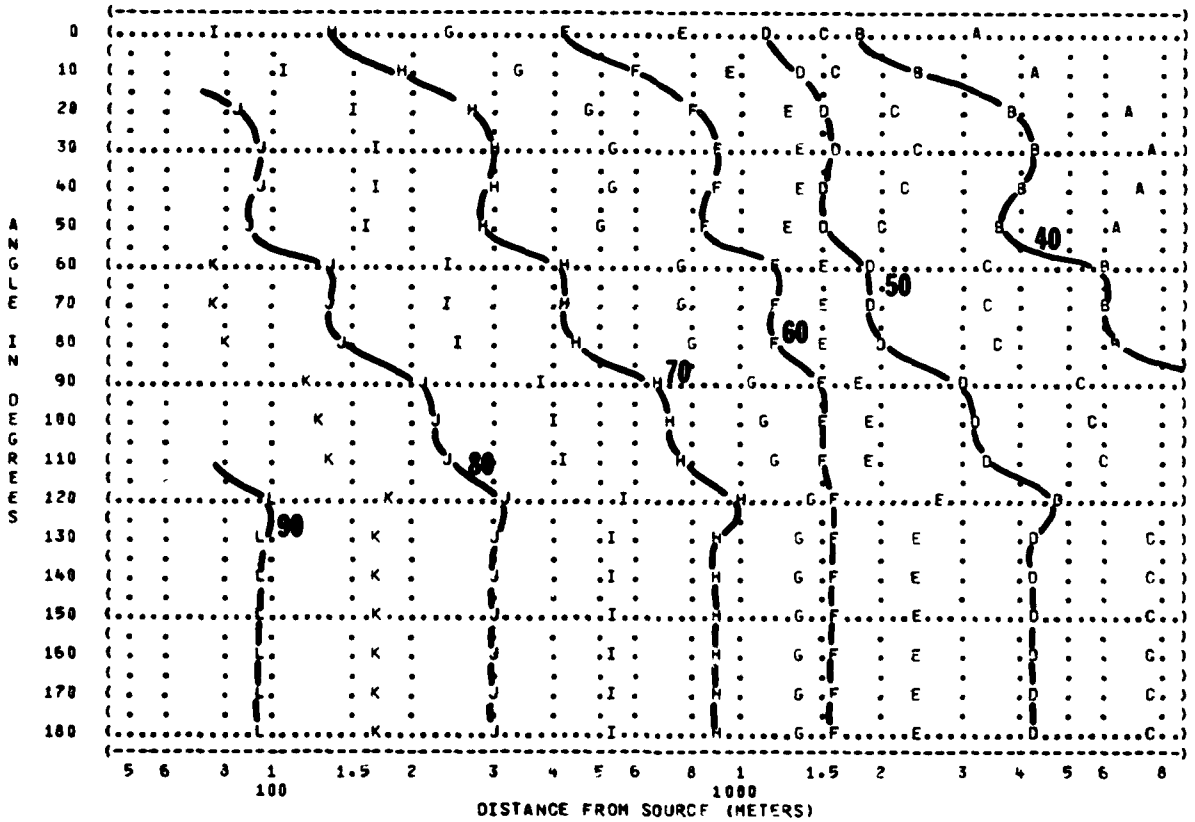


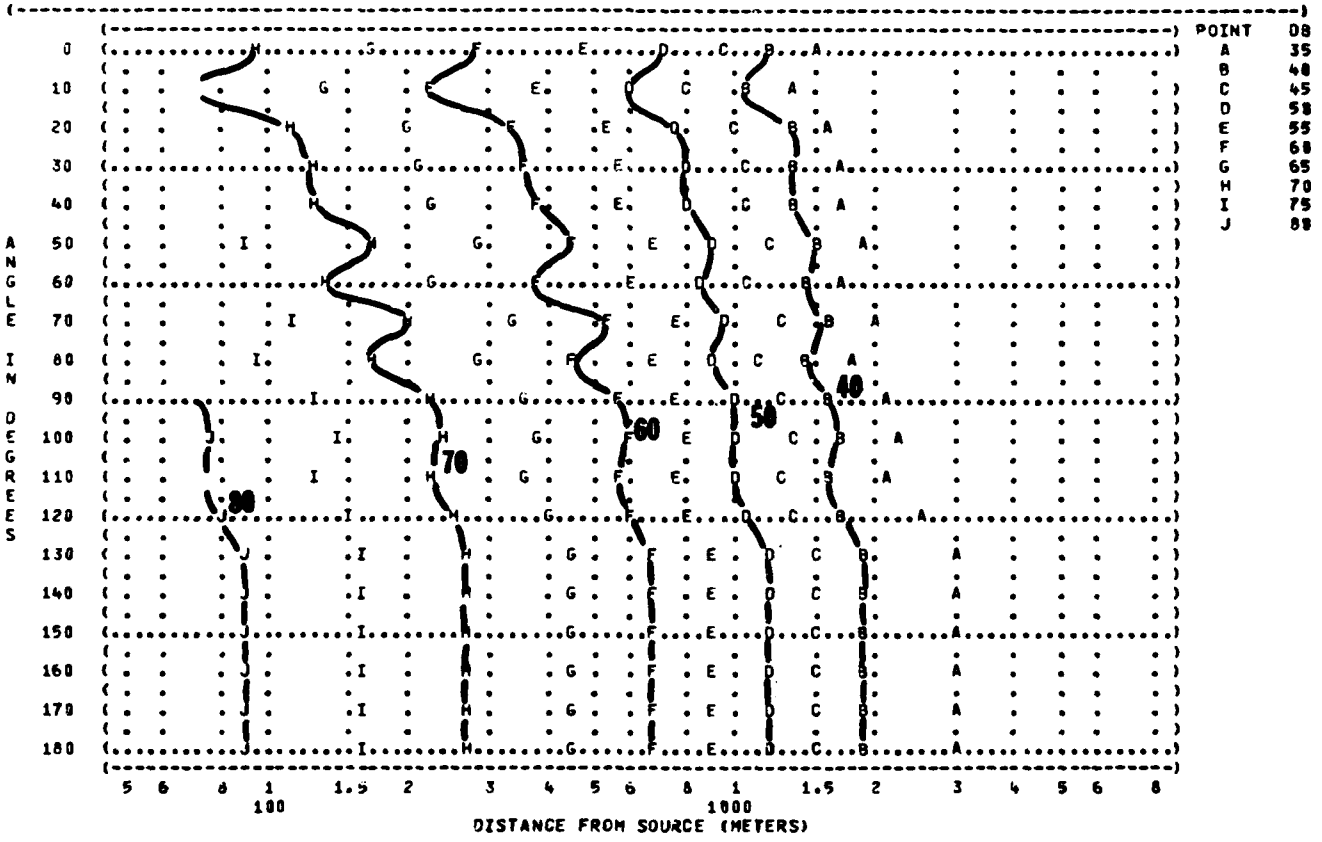
FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-881
RUN 03
26 OCT 81
PAGE 20

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

FIGURE: 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND		IDENTIFICATION: OMEGA 1.4 TEST BF-788-091 RUN 83 26 OCT 81 PAGE 21
NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE	OPERATION: 95% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %	

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-700-001
RUN 03
26 OCT 81
PAGE 22

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

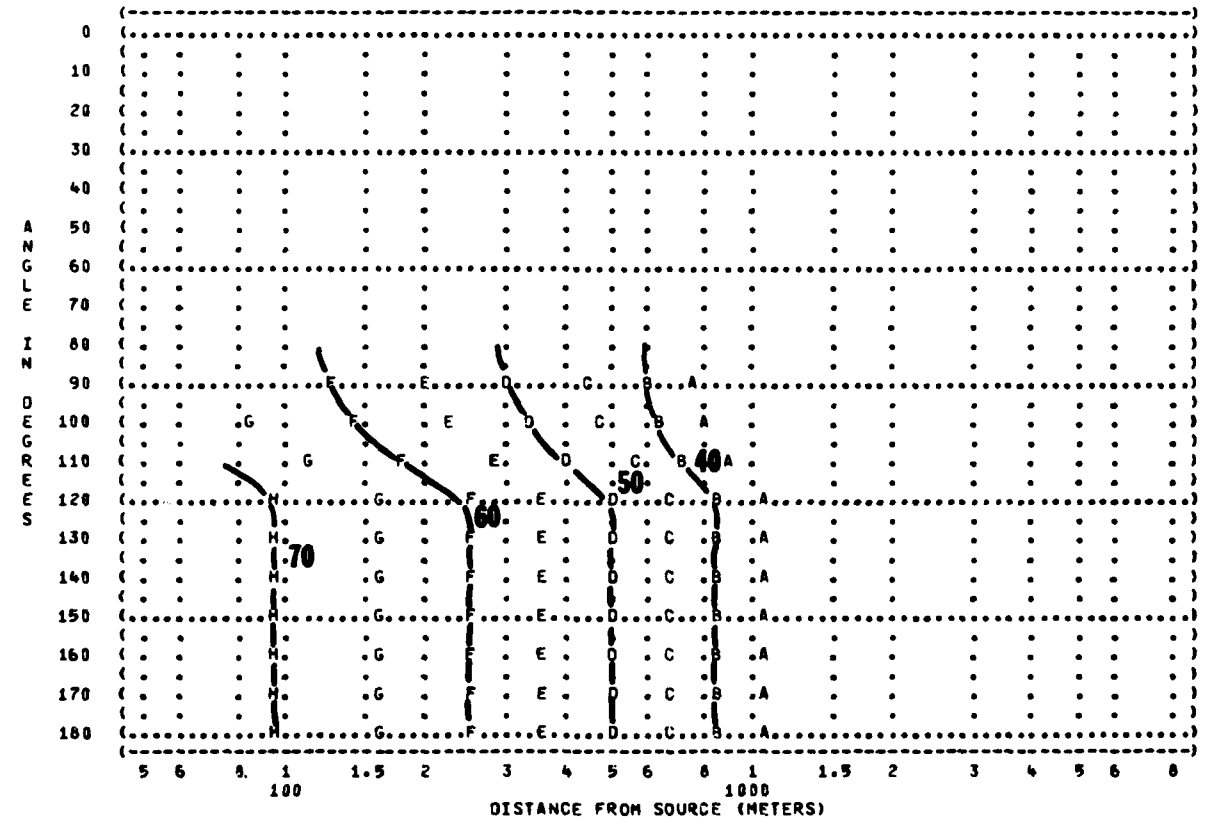


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M MS
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-001
RUN 03
26 OCT 81
PAGE 23

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

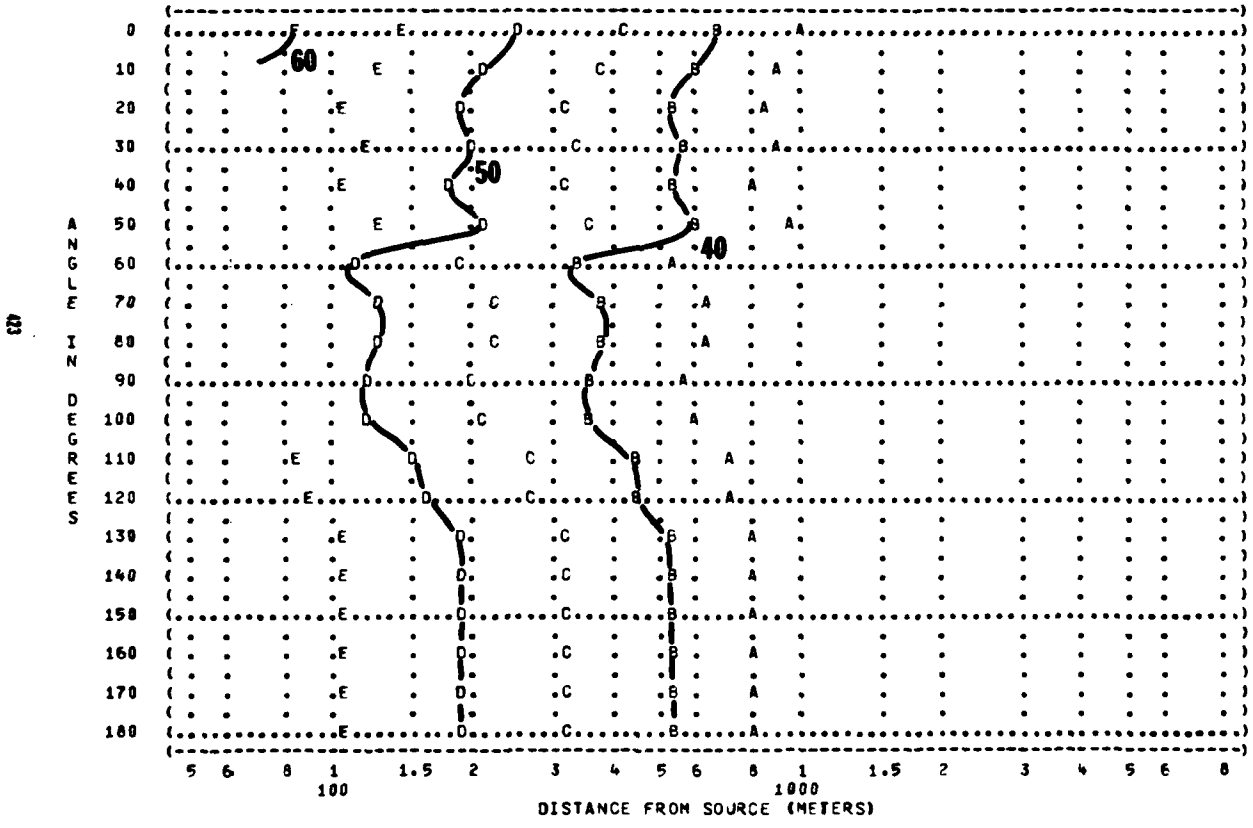


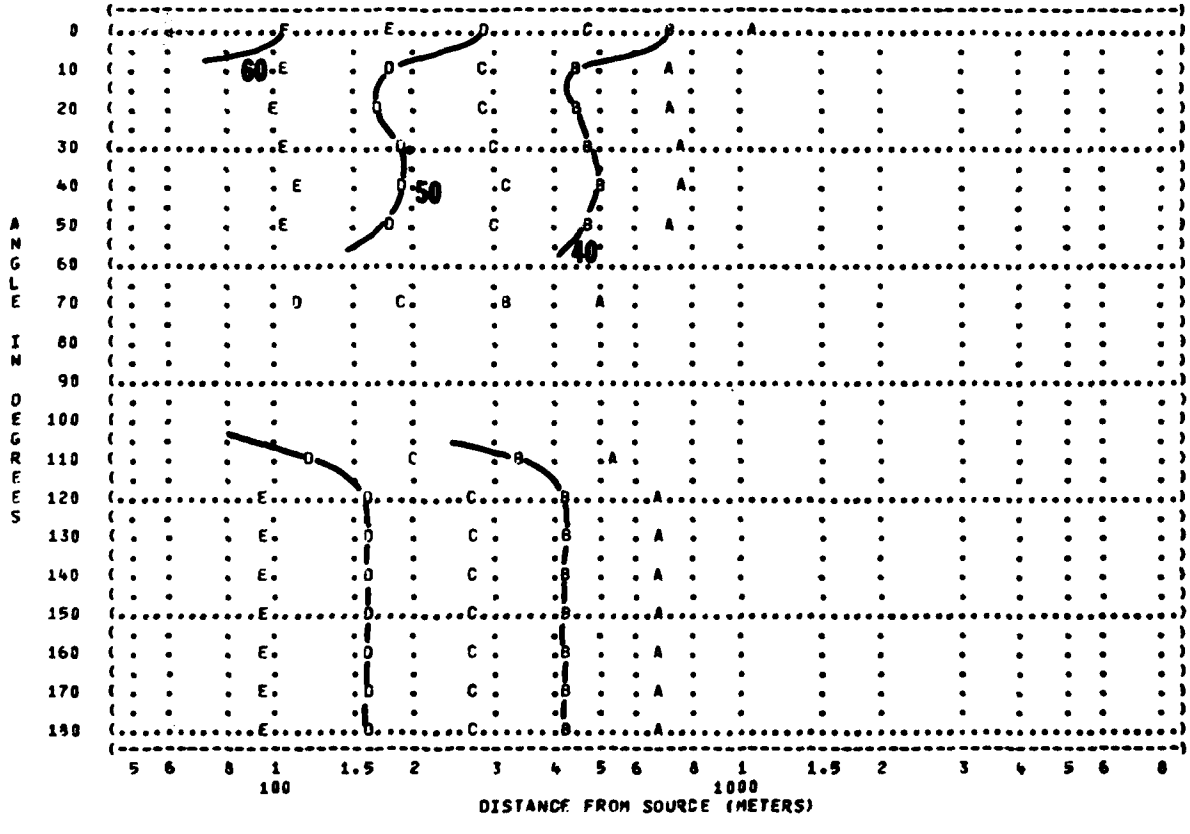
FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-108 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-708-081 RUN 03 26 OCT 81 PAGE 24



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-081
RUN 03
26 OCT 81
PAGE 25

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

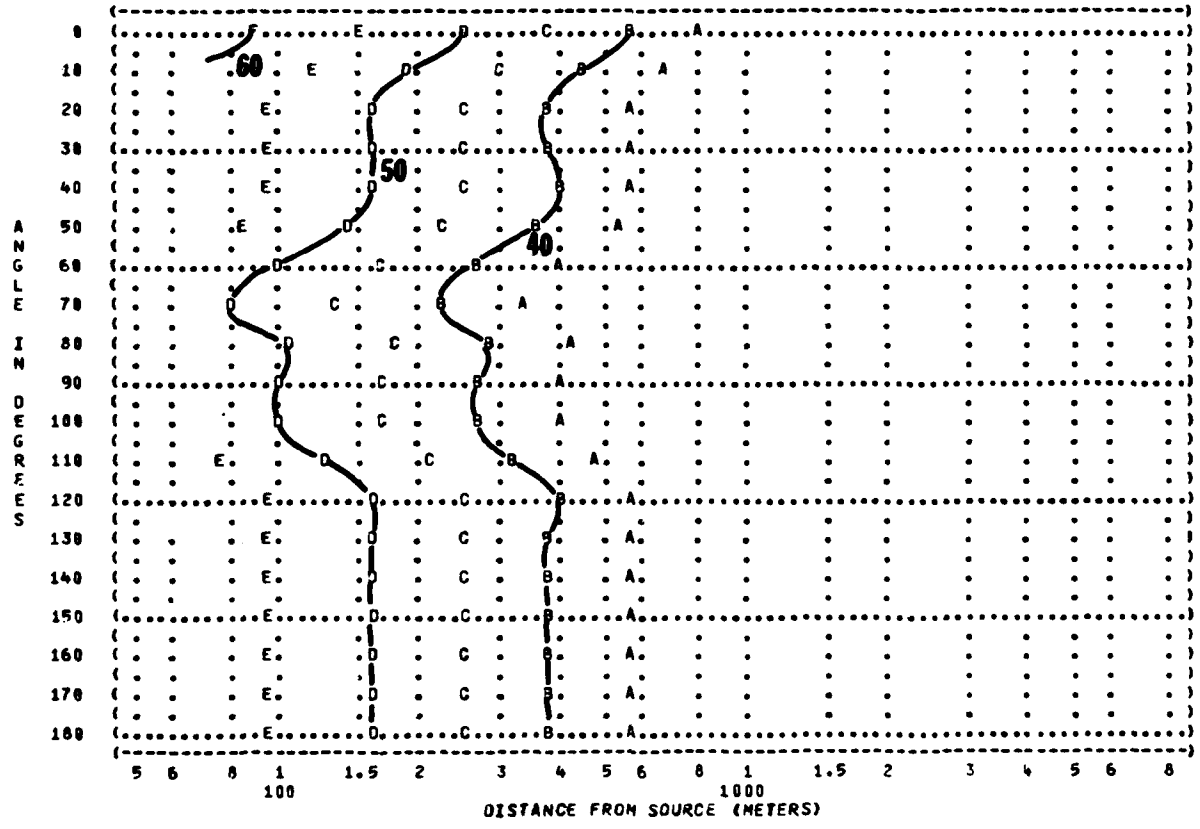


FIGURE: 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-881
RUN 83
26 OCT 81
PAGE 26

POINT	DB
A	35
B	40
C	45
D	50

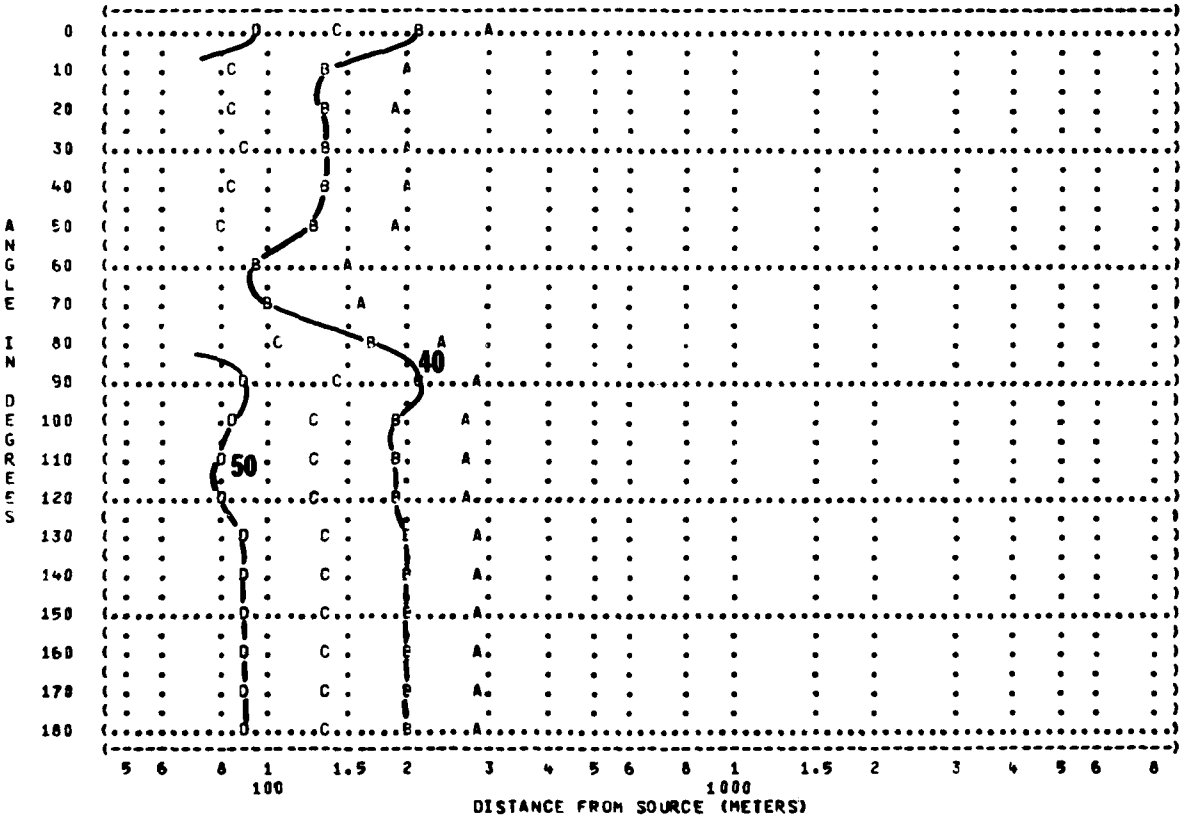


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 03
26 OCT 81
PAGE 27

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
RFL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

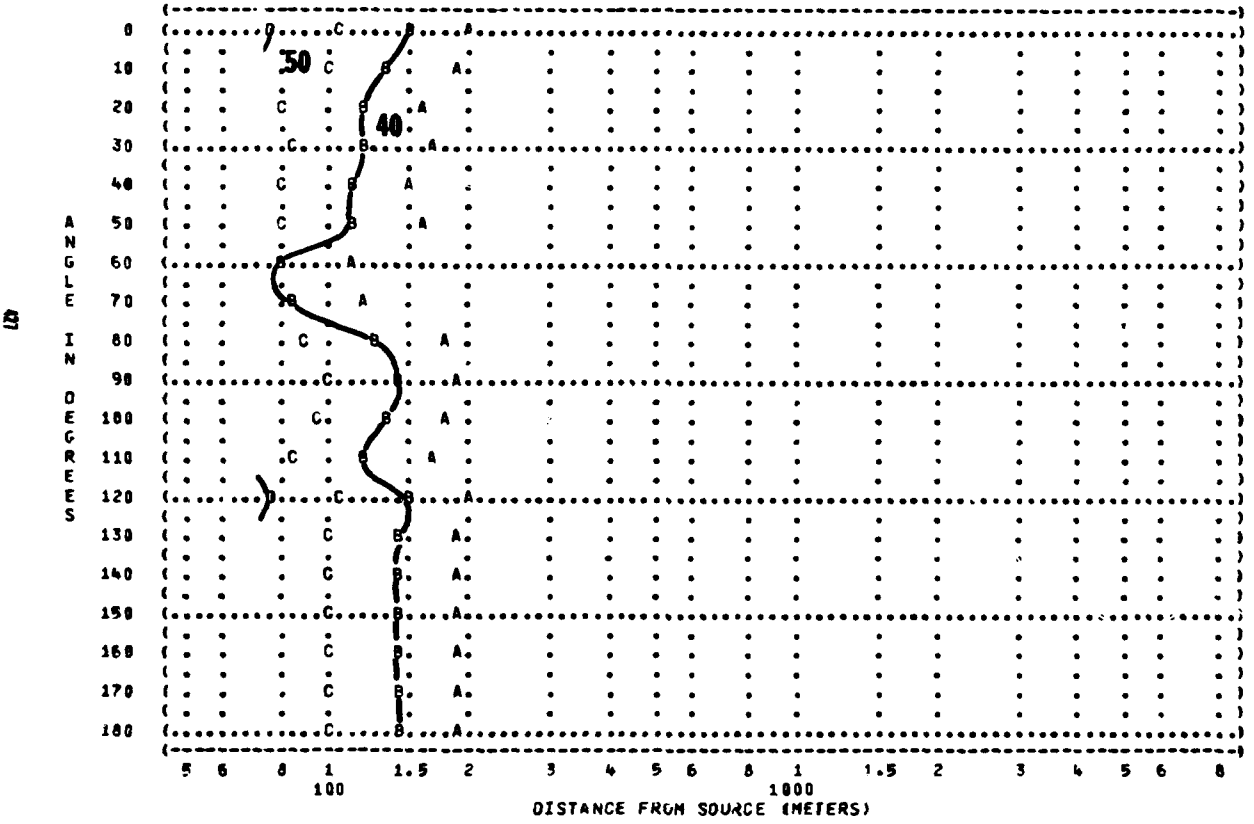


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-788-081 RUN 04 26 OCT 81

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95

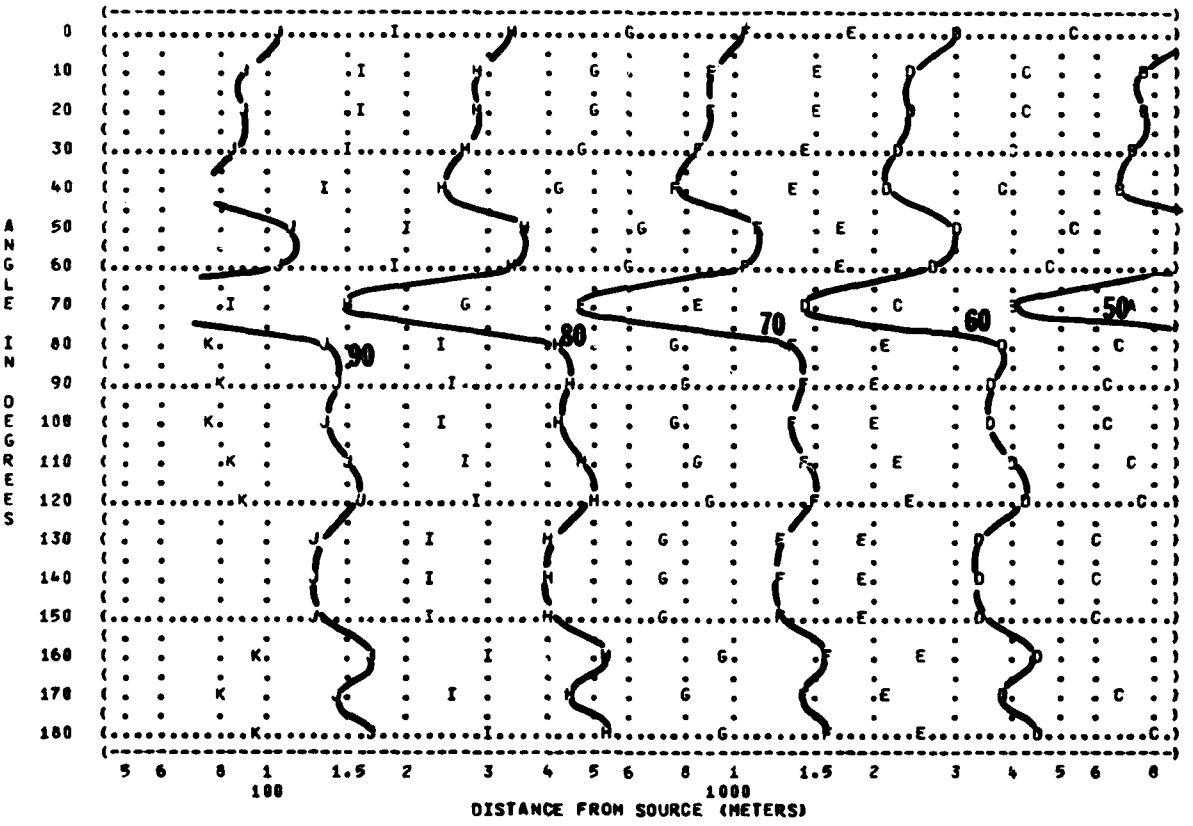


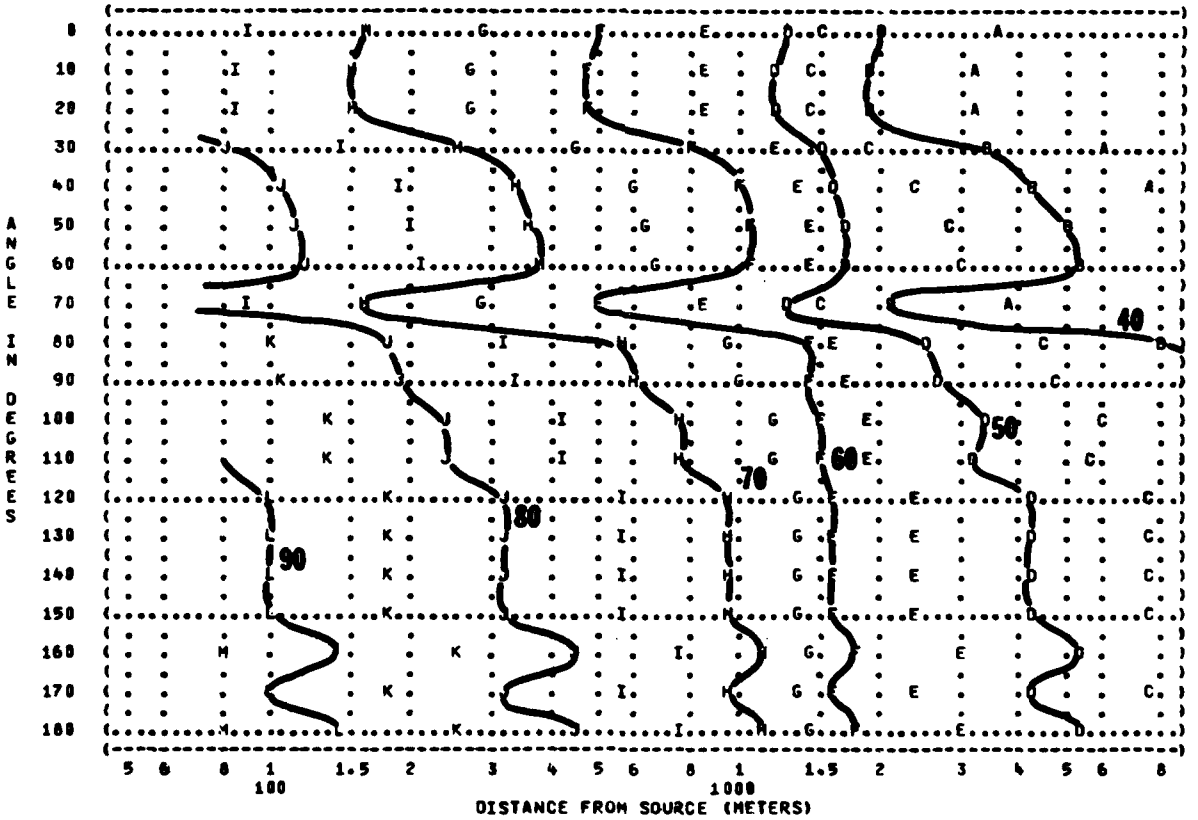
FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-108 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-788-881 RUN 04 26 OCT 81 PAGE 19



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95

FIGURE: 7.8

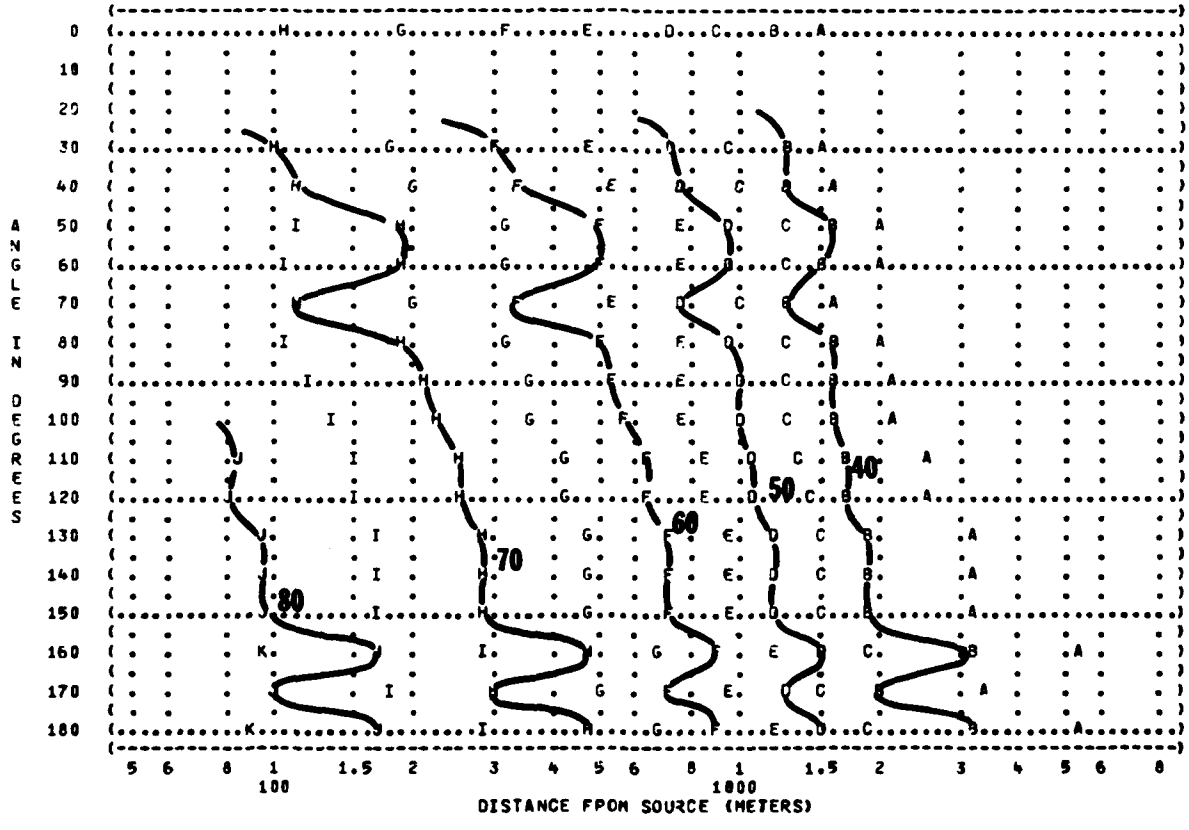
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-881
RUN 04
26 OCT 81
PAGE 20



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

FIGURE: 7.8
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
125 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 04
26 OCT 81
PAGE 21

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-108 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

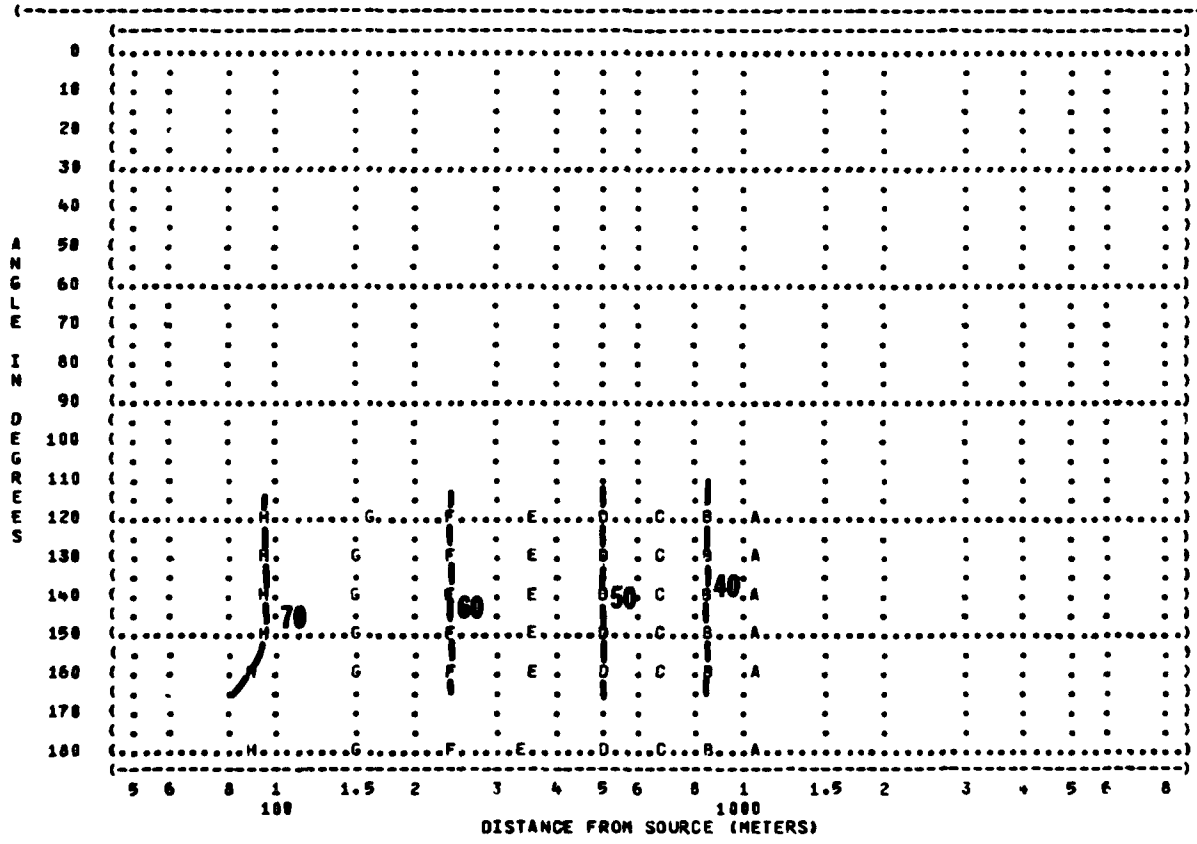


FIGURE: 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-881
RUN 04
26 OCT 81
PA 22

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-108 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

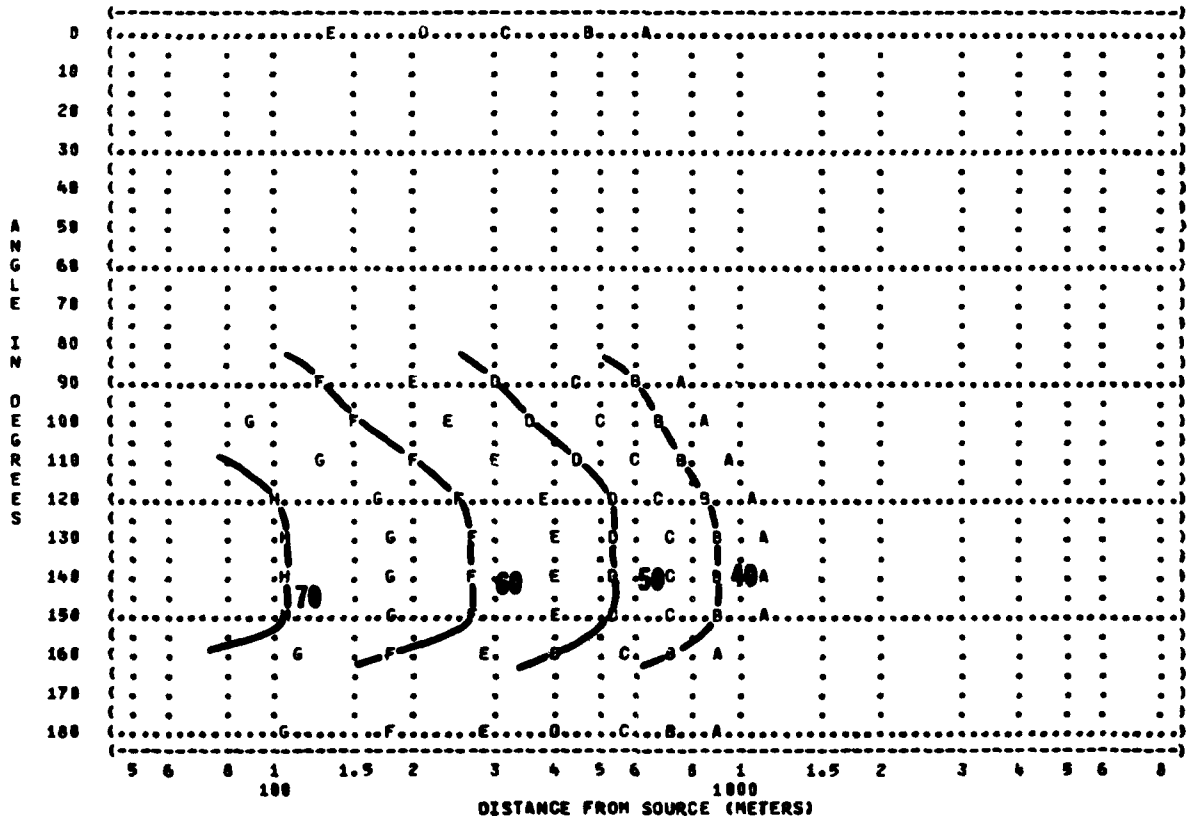


FIGURE: 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-081
RUN 04
26 OCT 81
PAGE 23

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

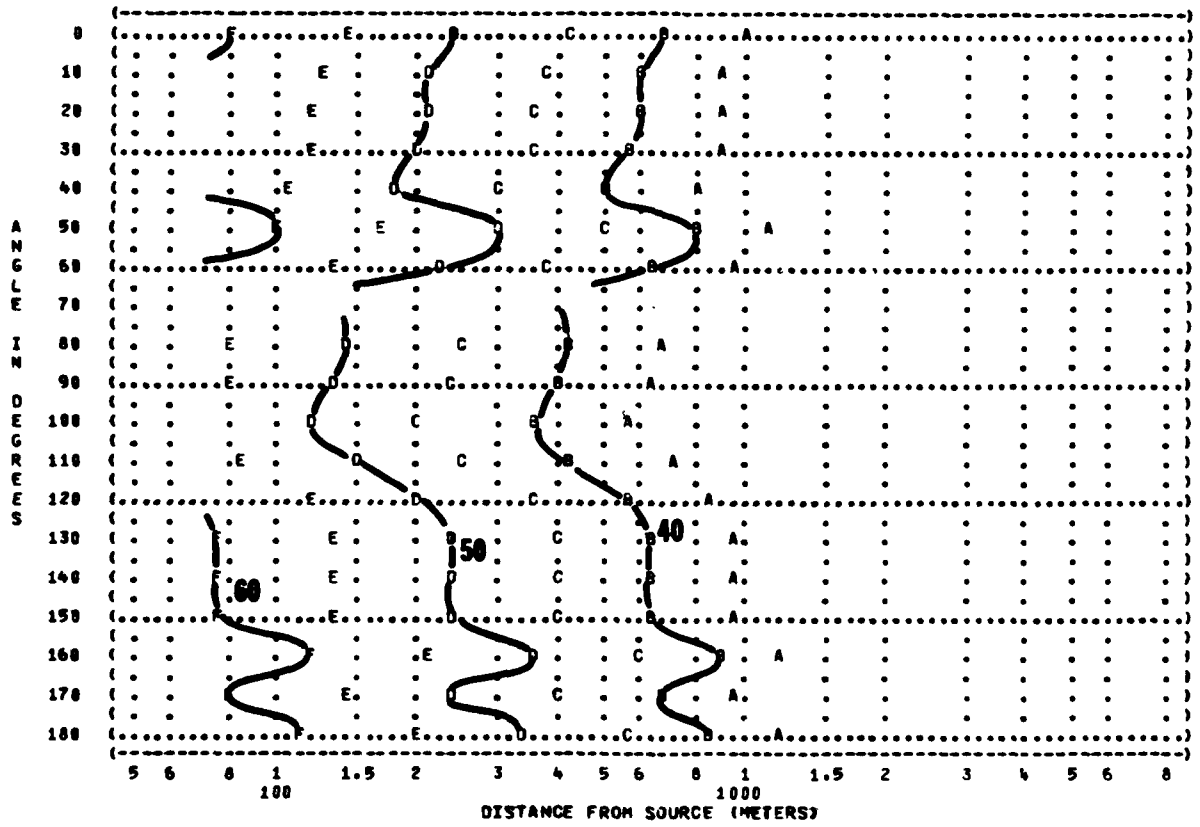


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-108 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 04
26 OCT 81
PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

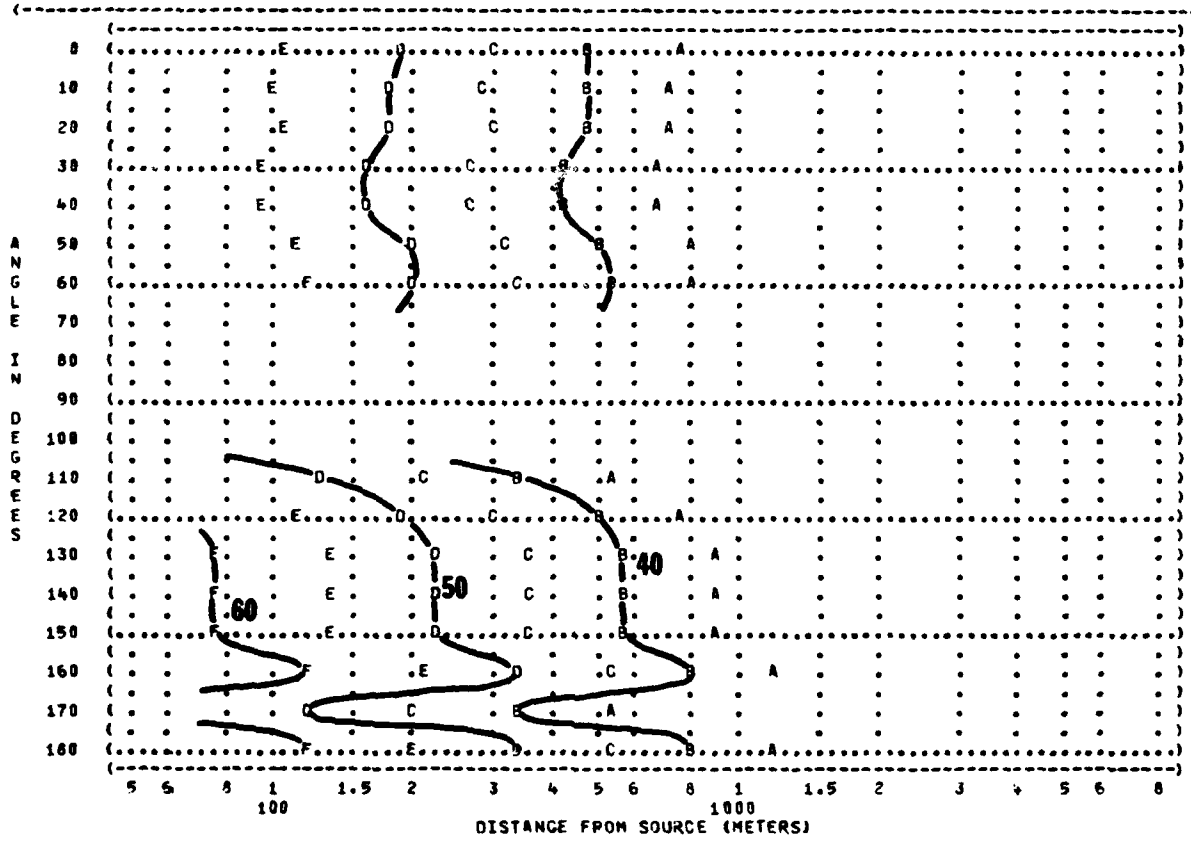


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-708-081 RUN 04 26 OCT 81 PAGE 25

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

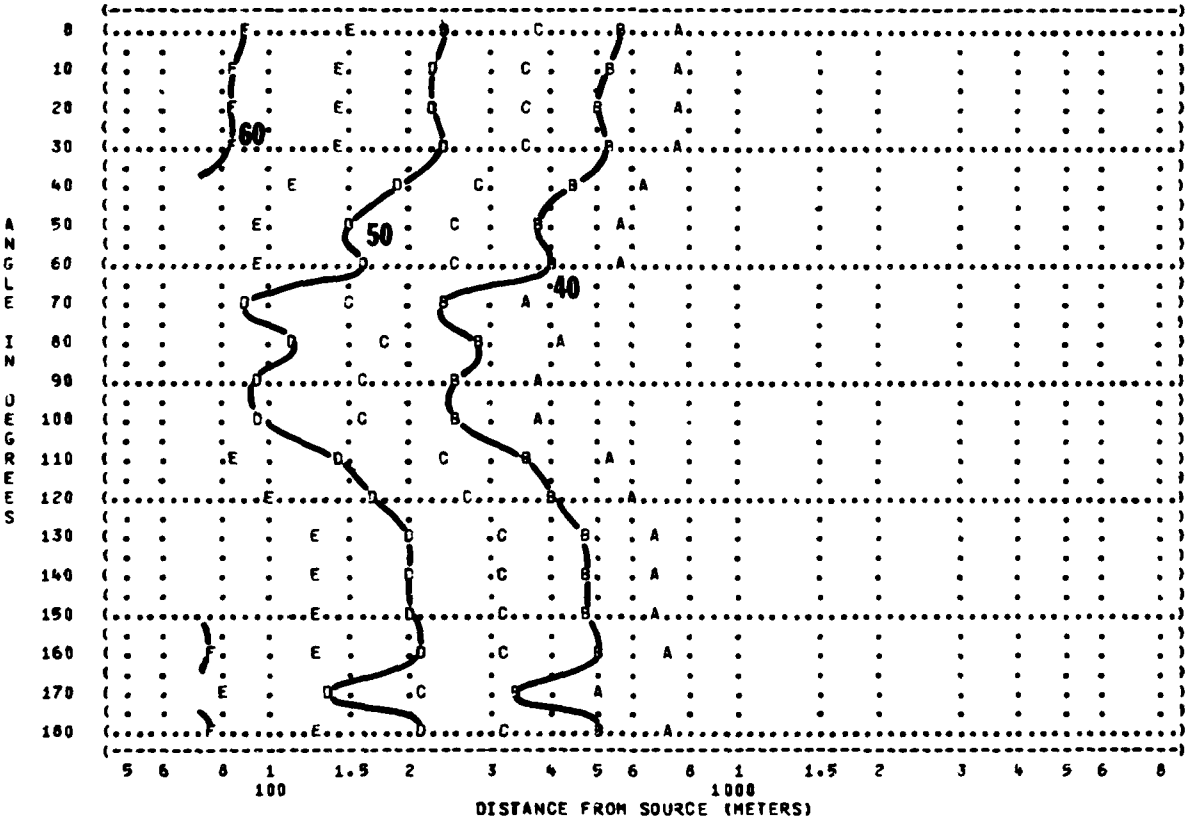


FIGURE: 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-081
RUN 04
26 OCT 81
PAGE 26

POINT	DB
A	35
B	40
C	45
D	50

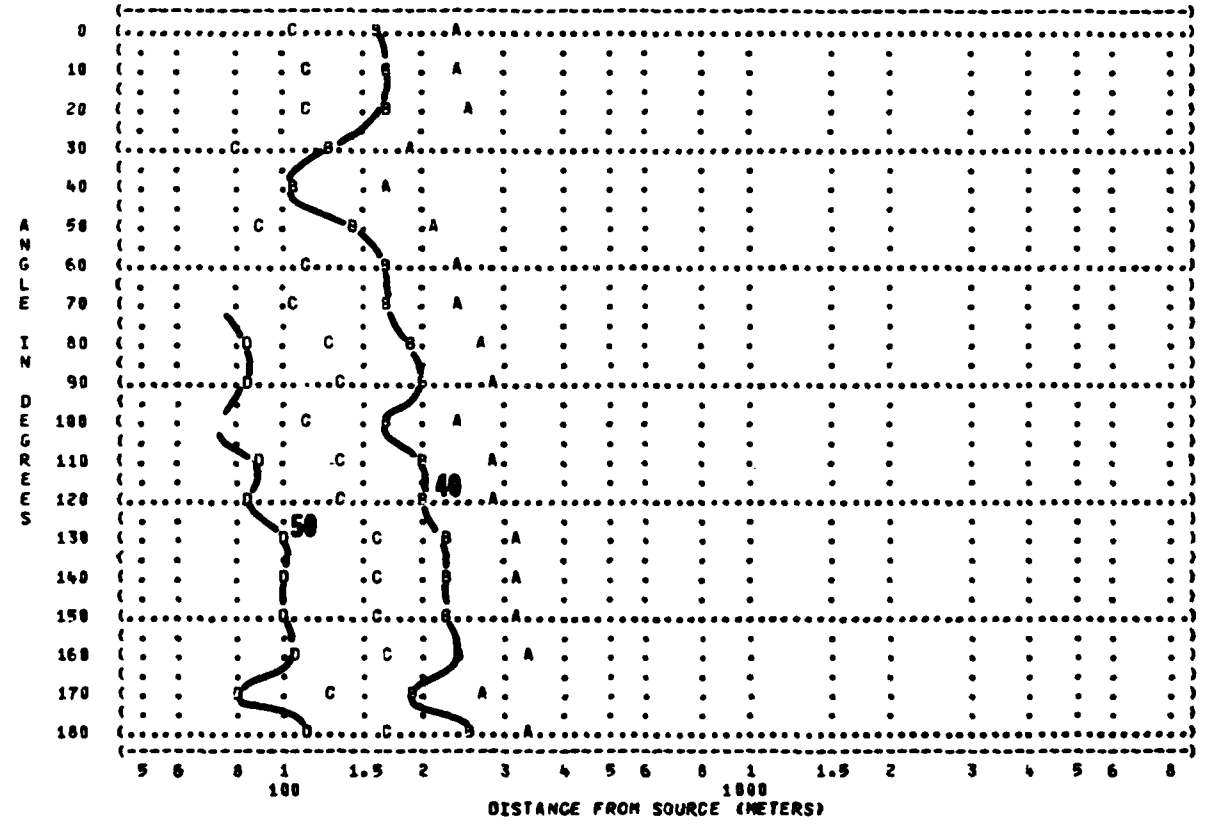


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-081
RUN 04
26 OCT 81
PAGE 27

POINT	DB
A	35
B	40
C	45
D	50

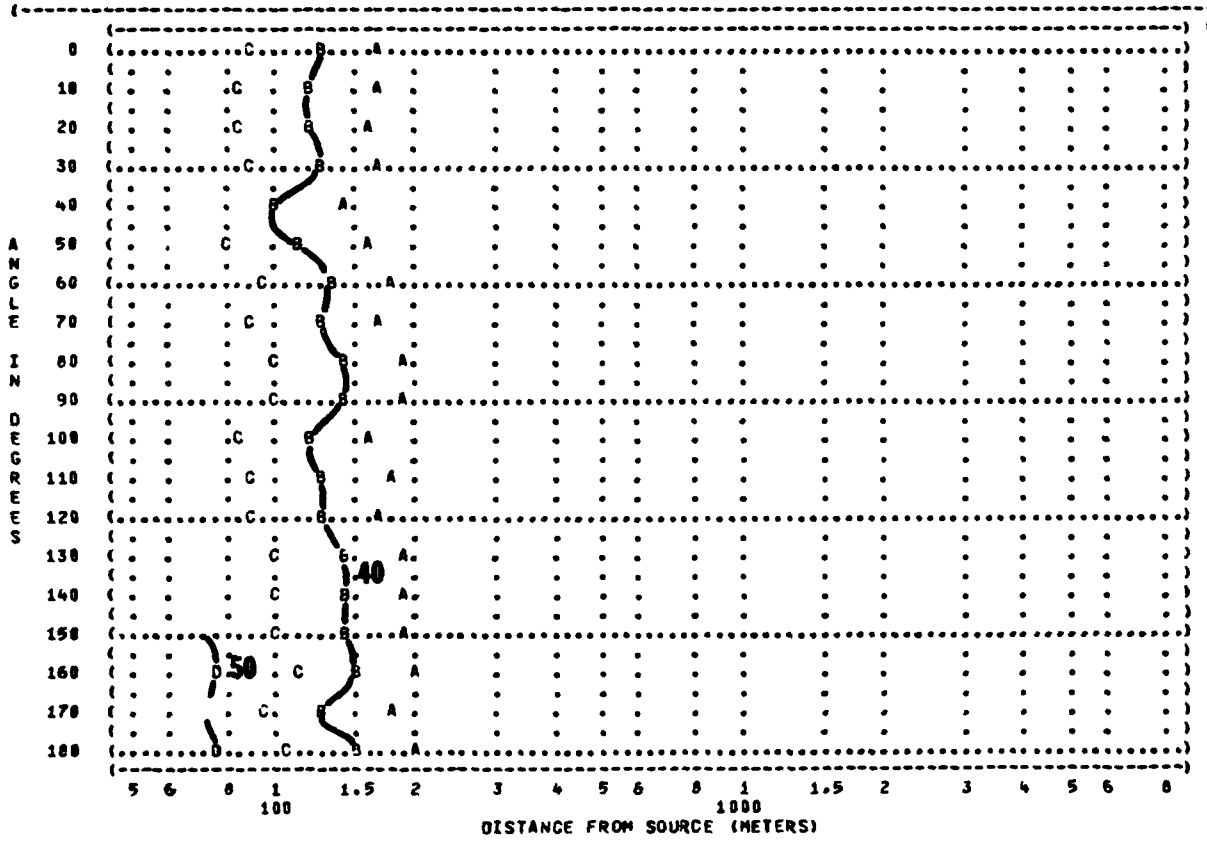


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATIONS:
OMEGA 1.4
TEST BF-708-001
RUN 05
26 OCT 81
PAGE 18

POINT	DB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95
I	100
J	105

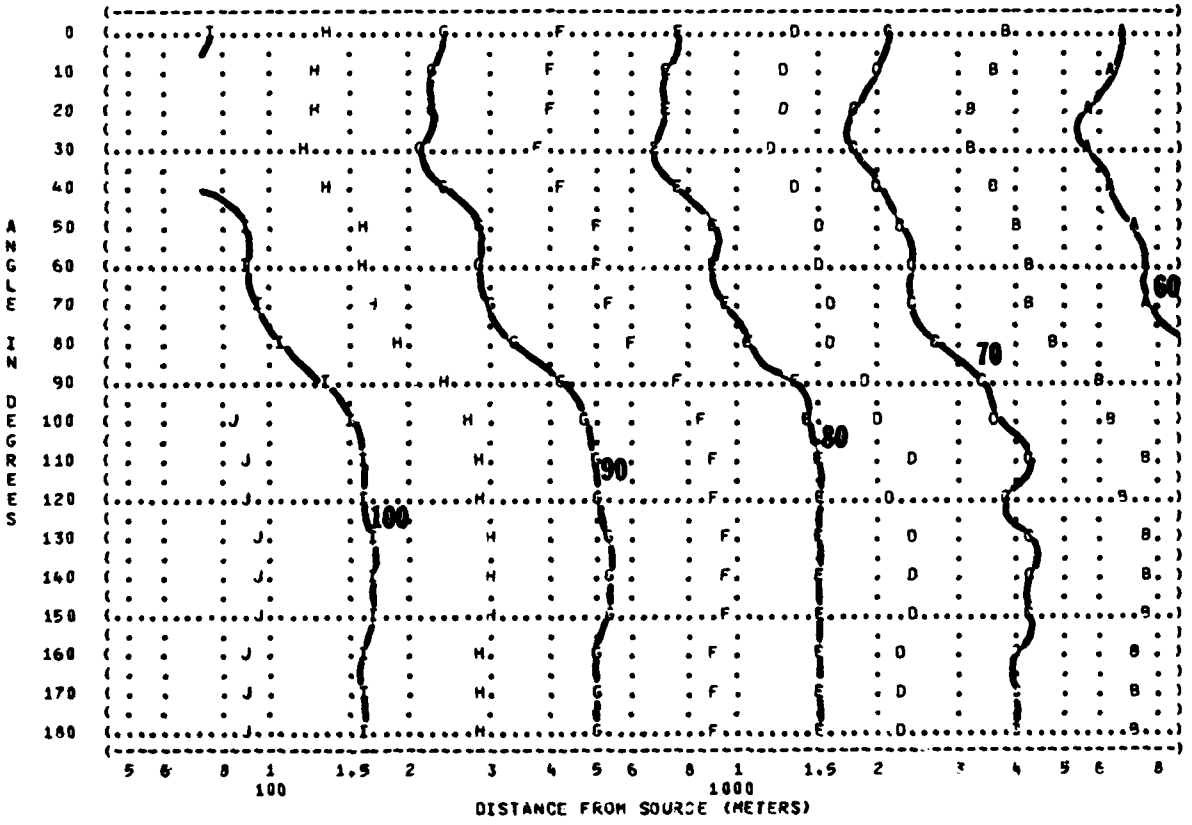


FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

OPERATION:
AFTERBURNER POWER (95%)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 05
26 OCT 81
PAGE 19

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95
L	100
M	105

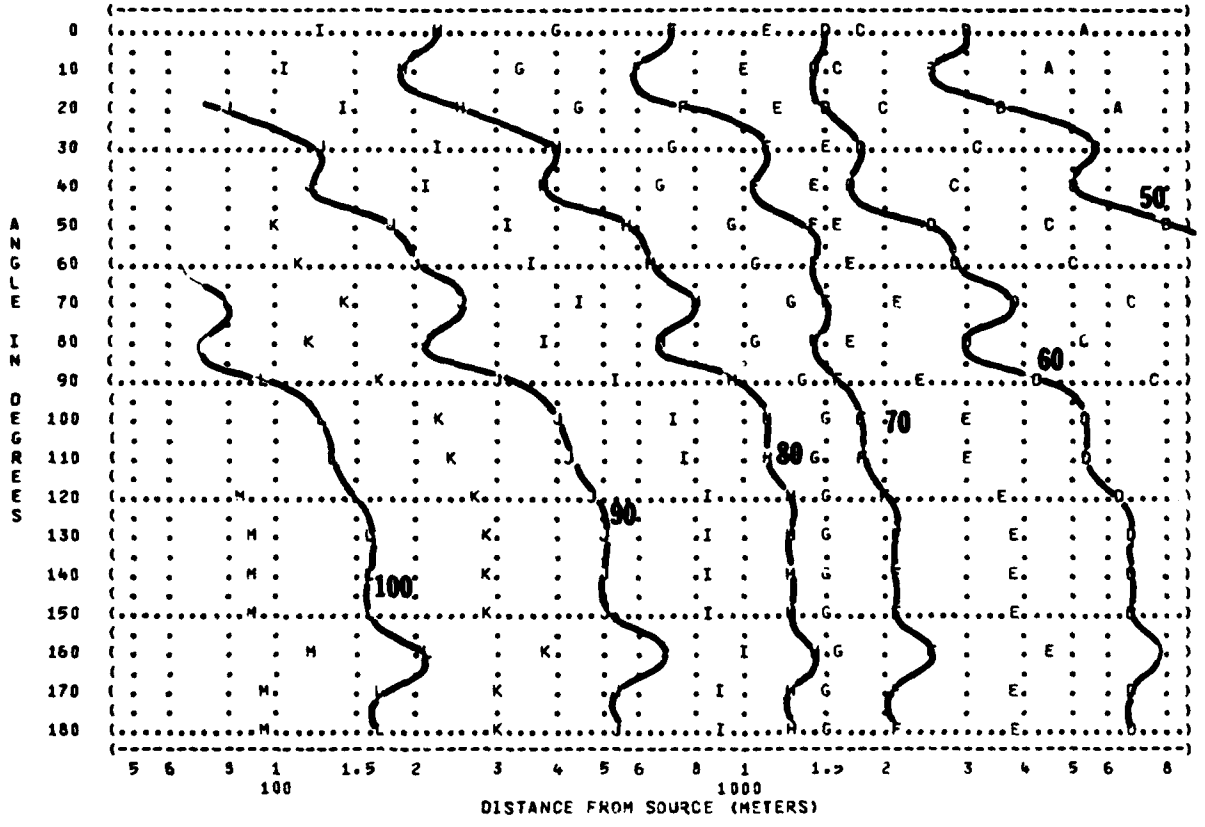


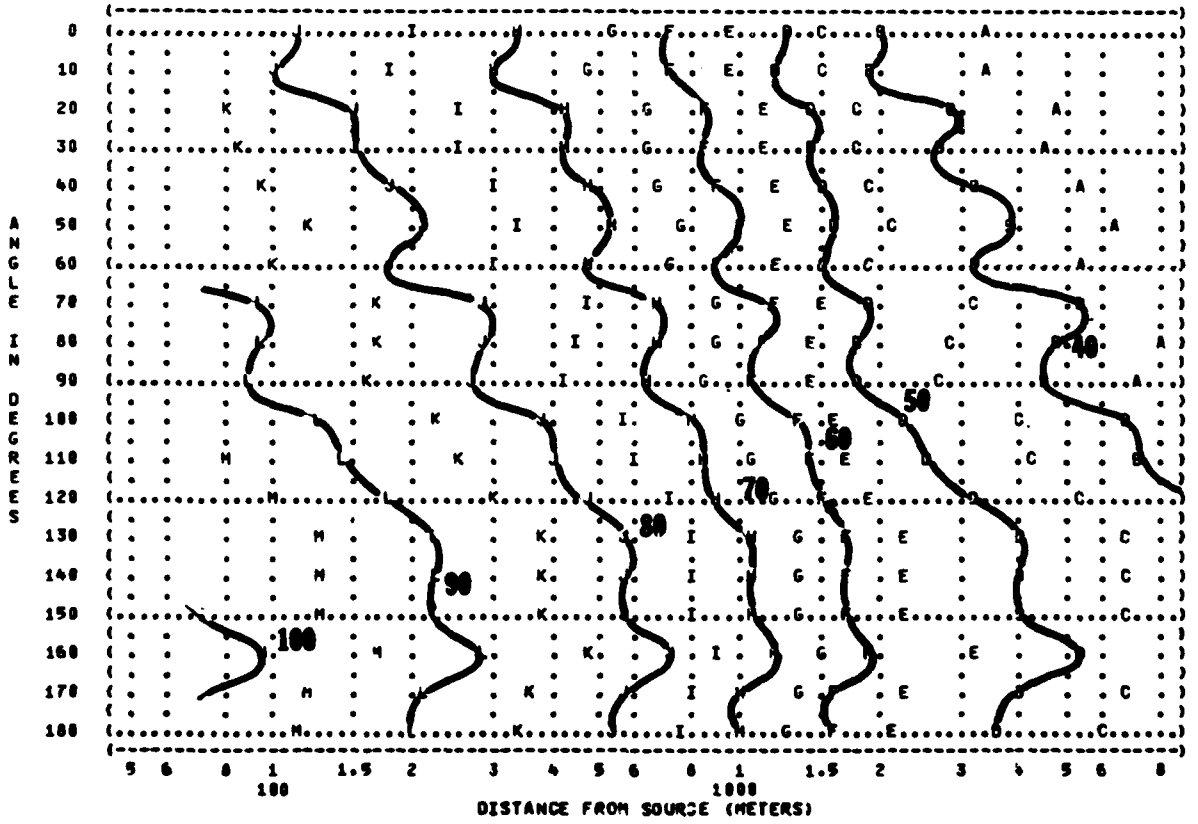
FIGURE 7.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 05
26 OCT 81
PAGE 20



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95
N	100

FIGURE: 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-801
RUN 85
26 OCT 81
PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90

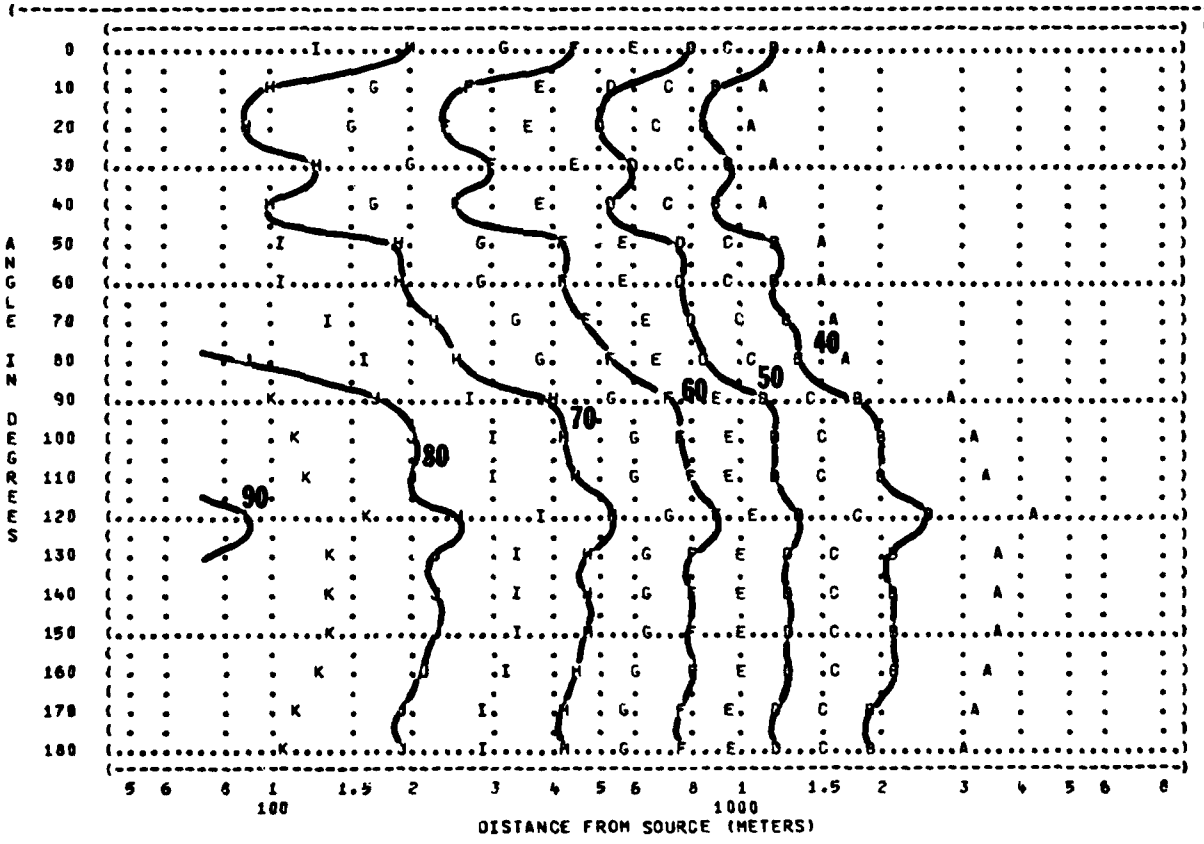


FIGURE: 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 05
26 OCT 81
PAGE 22

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

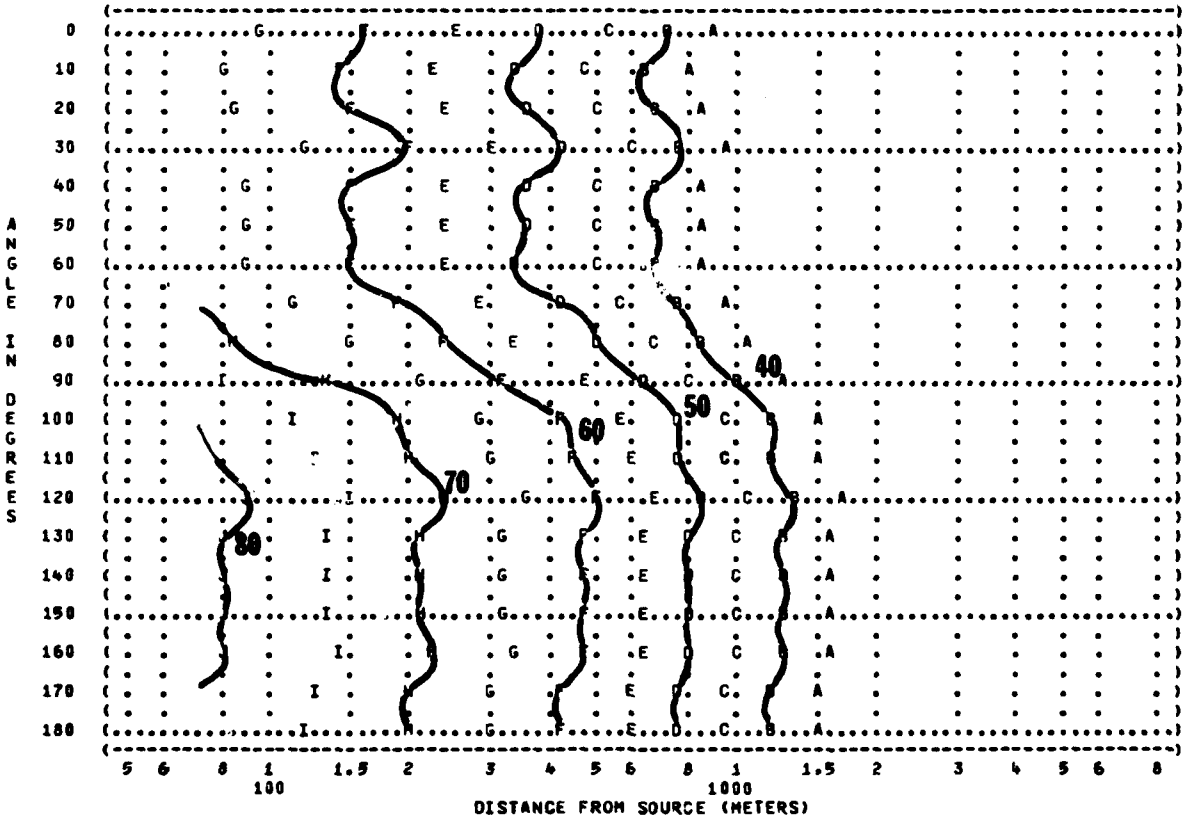


FIGURE: 7.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 05
26 OCT 91
PAGE 23

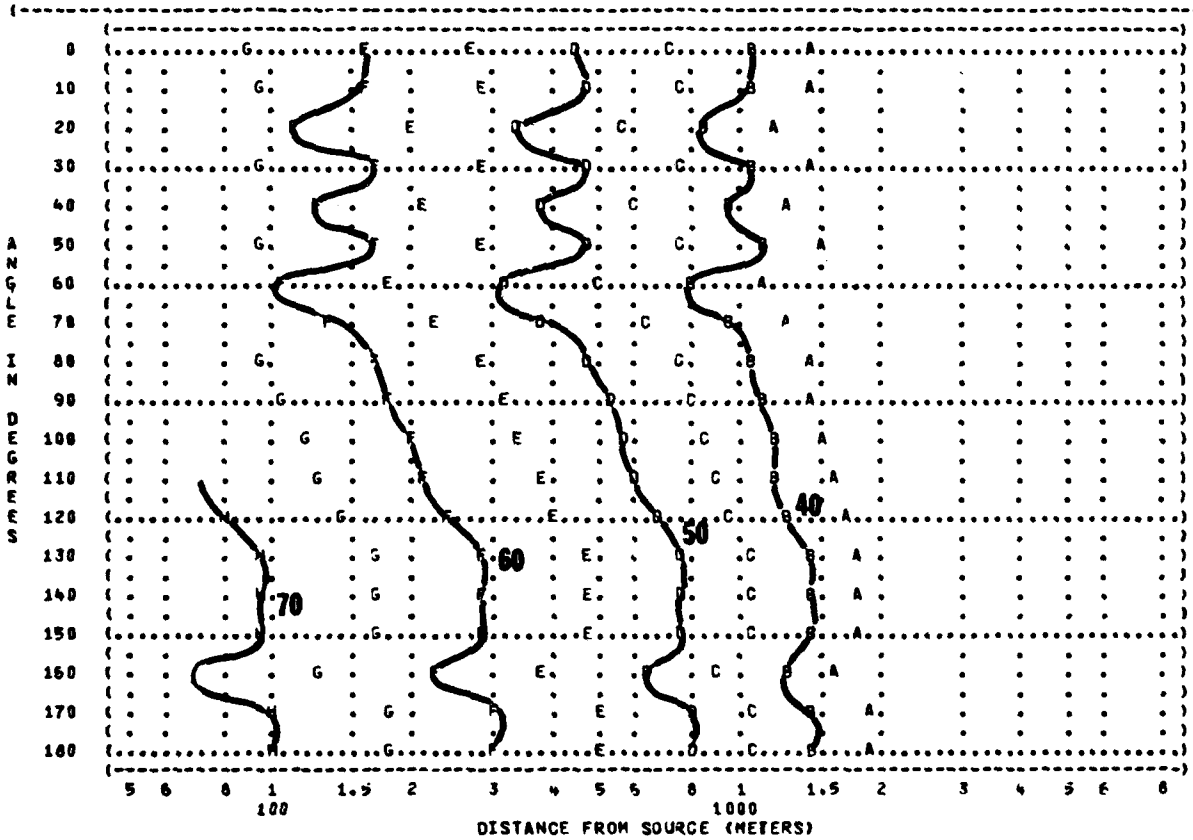


FIGURE: 7.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
1000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-708-001
RUN 05
26 OCT 81
PAGE 24

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

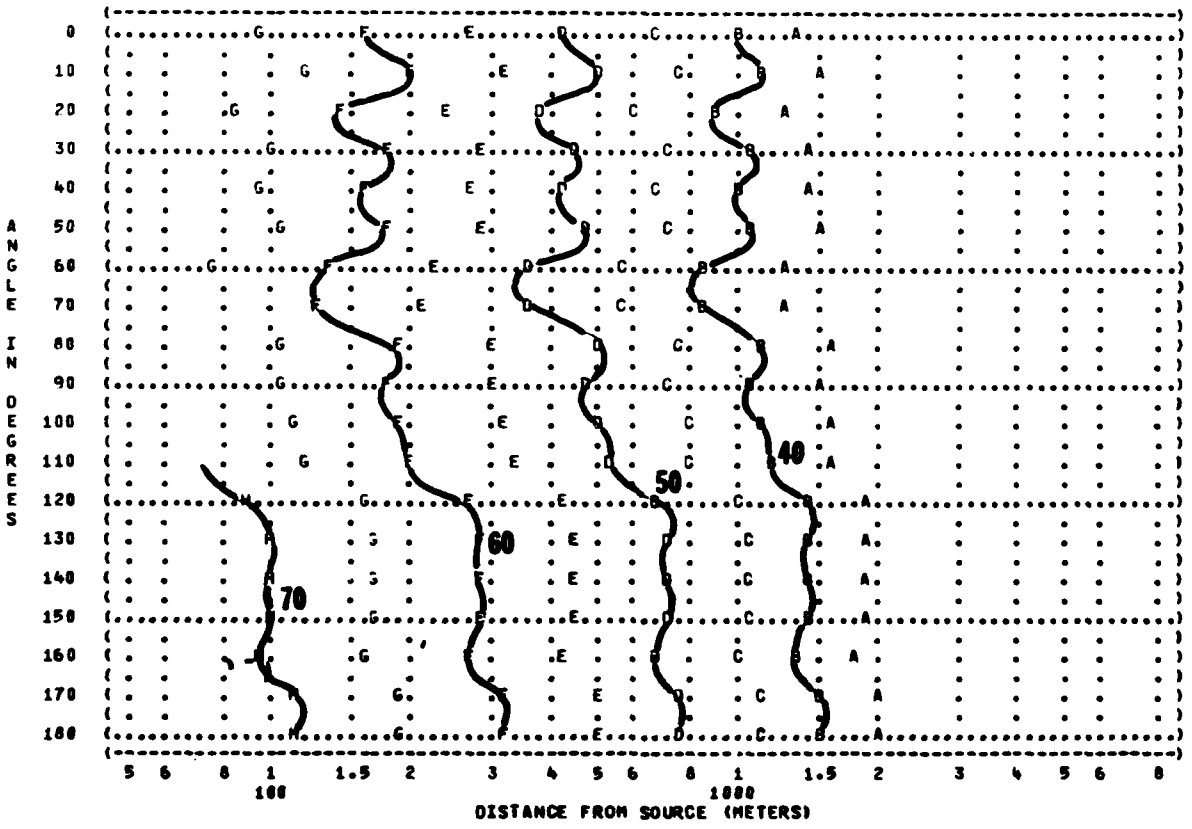


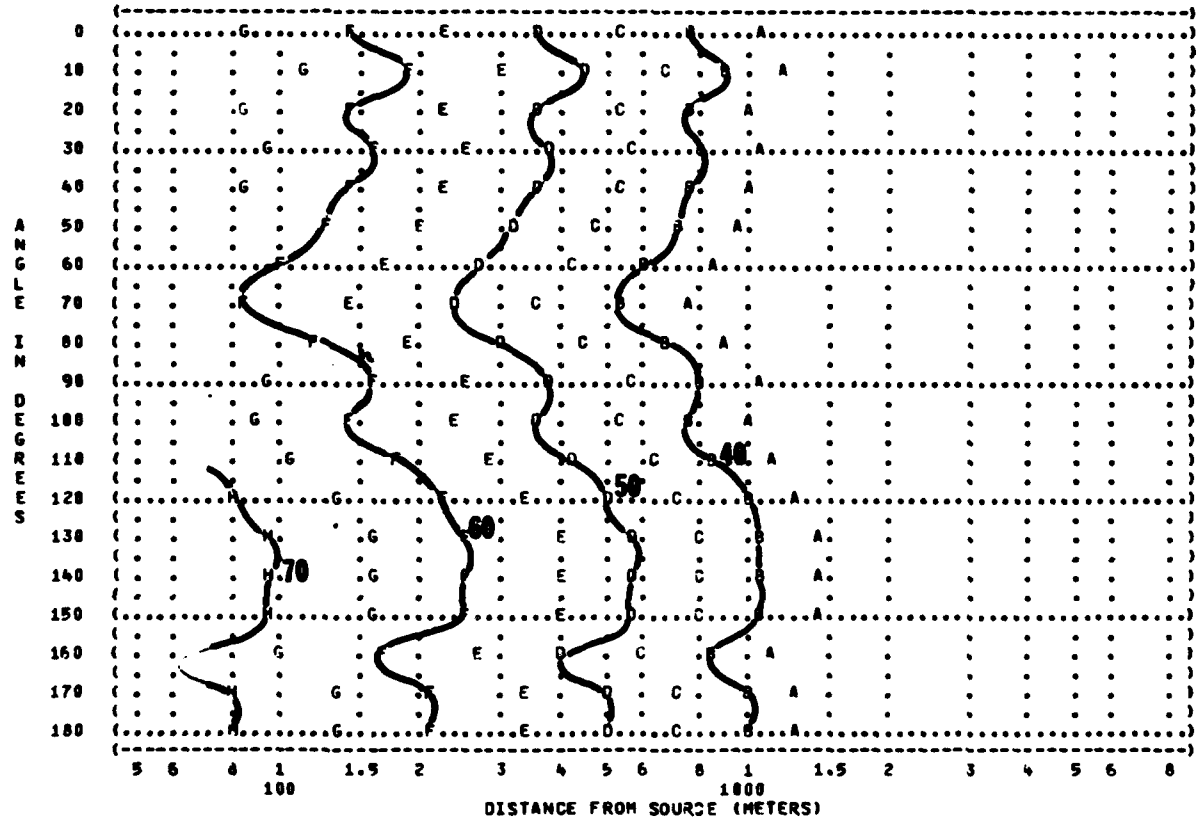
FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE *TF30-P-100 ENGINE* FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-708-881 RUN 85 26 OCT 81 PAGE 25



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-001
RUN 05
26 OCT 81
PAGE 26

NOISE SOURCE/SUBJECT:
F-111F AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
TF30-P-100 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

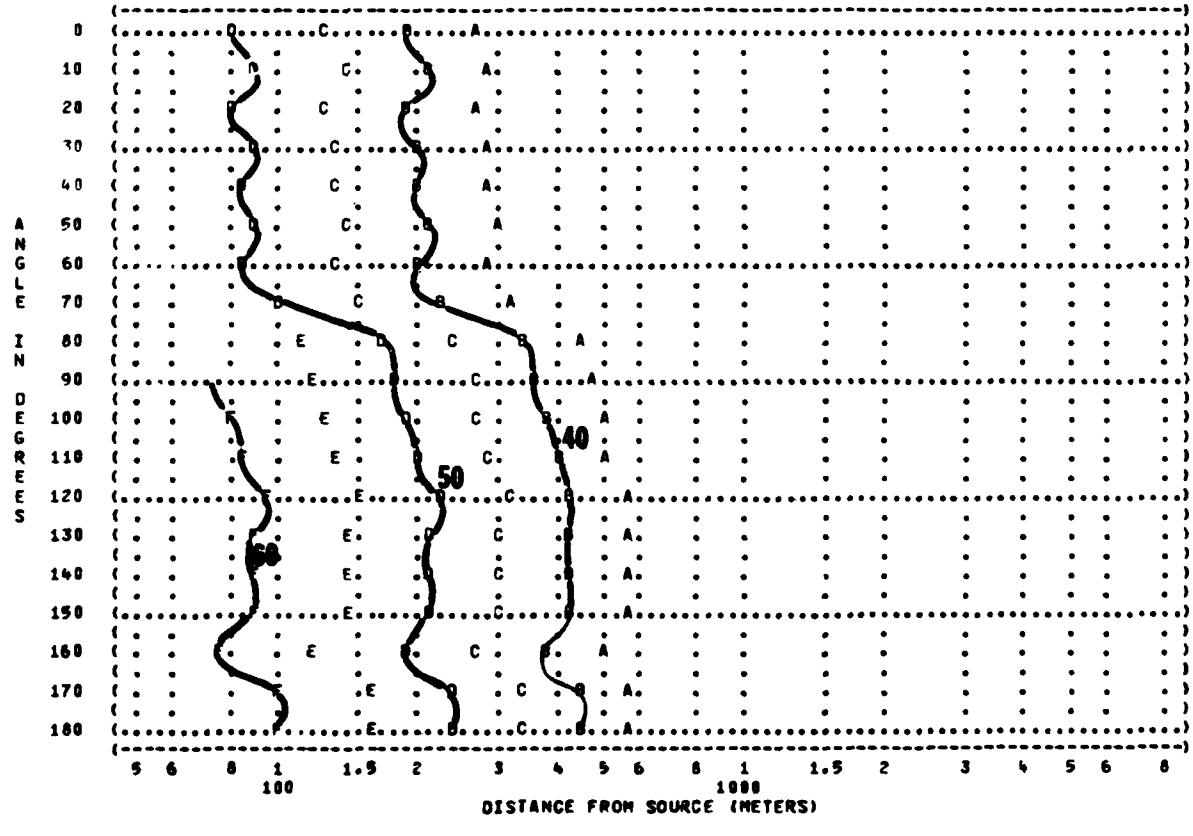


FIGURE: 7.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-788-001
RUN 05
26 OCT 81
PAGE 27

NOISE SOURCE/SUBJECT: F-111F AIRCRAFT IN THE TEXAS ASE HUSH HOUSE TF30-P-100 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

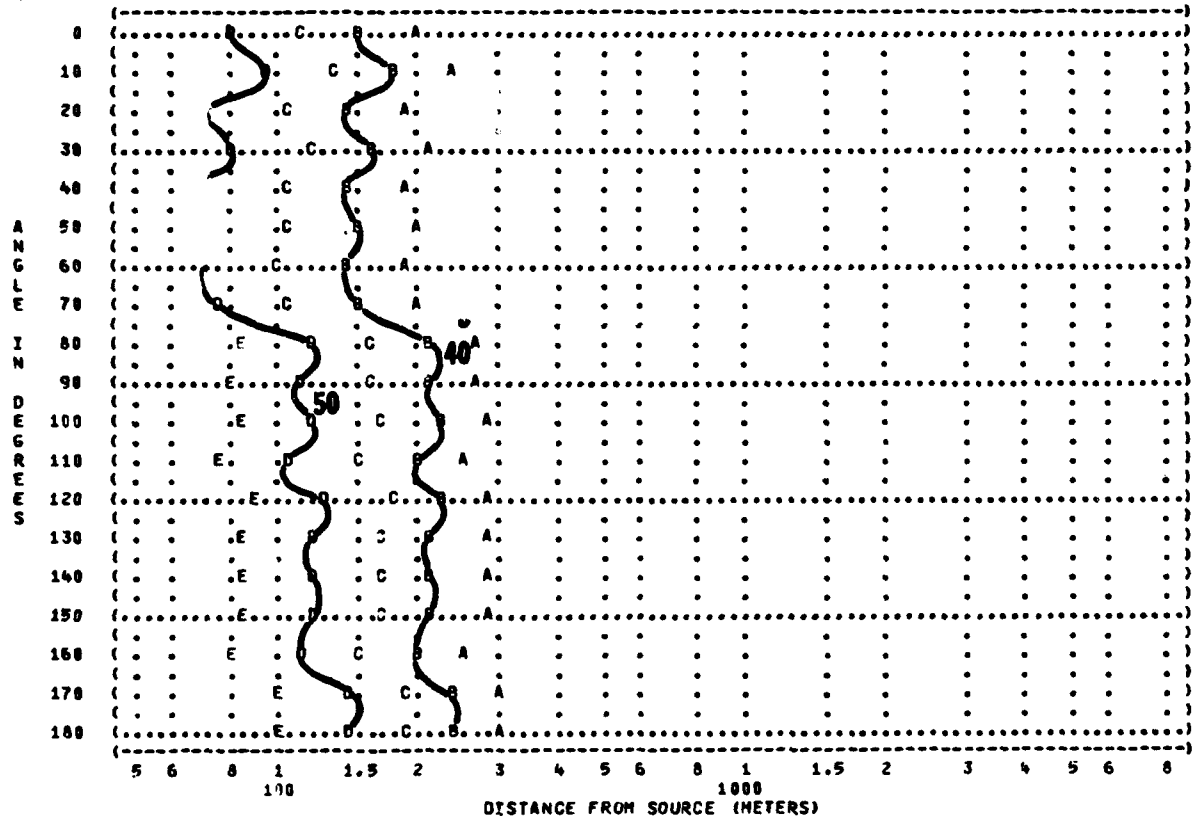


TABLE 8.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS
T-38 AIRCRAFT IN THE ASE-TEXAS INC. HUSH-HOUSE, GROUND RUNUP
KELLY AFB TEXAS, TEST #BF-709-001

Aircraft Engine Operation	Single Engine
80%	80 % RPM
	900 LBS/HR FF
	425 TIT
Military Power	100 % RPM
	2100 LBS/HR FF
	645 TIT
Afterburner Power	100.5 % RPM
	2100+ LBS/HR FF
	645 TIT
Meteorology	
Temperature	29 C
Bar Pressure	.743 M Hg
Rel Humidity	67 %
Wind - Speed	2 M/Sec (4 Kts)
- Direction	180 Deg

TABLE: 8.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST 9F-789-081
RUN 01
26 OCT 91
PAGE 2

NOISE SOURCE/SUBJECT:
T-33 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 29 C
BAR PRESS = .743 M HG
REL HUMID = 67 %

FREQ	ANGLE (DEGREES)																		
(HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	59	60	64	58	65	58	62	58	59	59	61	63	62	62	58	59	60	71	71
16	58	60	60	56	60	58	58	57	59	59	59	61	61	61	57	59	58	68	68
20	56	63	61	55	61	55	58	57	57	58	59	60	59	59	59	60	60	66	66
25	56	63	59	52	62	55	59	55	54	55	57	58	58	58	58	58	58	65	65
31.5	54	60	54	50	59	54	57	55	55	52	52	59	59	55	51	55	55	63	63
40	54	59	52	53	57	55	59	58	57	57	57	57	57	57	53	53	53	62	62
50	58	56	53	52	57	57	56	60	59	59	53	55	54	54	53	52	50	61	61
63	56	57	52	53	56	55	55	59	58	55	53	54	57	57	52	54	54	64	64
80	67	63	51	53	57	50	51	55	54	57	52	52	54	54	53	62	62	59	59
100	59	59	58	54	55	55	55	54	53	55	55	58	55	56	55	48	48	53	53
125	59	56	56	56	54	52	53	52	49	52	52	51	51	51	46	49	45	51	51
160	52	52	48	47	49	45	47	47	43	47	45	46	47	47	45	46	46	45	45
200	52	52	45	49	45	42	42	43	39	43	40	44	45	46	41	40	40	42	42
250	53	49	47	46	42	41	40	42	40	42	39	43	45	45	41	39	39	42	42
315	47	43	43	41	39	38	34	38	34	37	36	41	41	41	37	37	37	39	39
400	43	41	36	36	33	33	30	33	31	34	32	39	33	39	33	36	36	39	39
500	39	36	36	36	37	32	29	33	30	34	31	39	41	41	35	35	35	38	38
630	38	38	34	30	35	33	30	33	31	34	32	37	41	41	36	35	35	38	38
800	39	34	32	33	34	31	30	32	32	35	36	39	40	40	35	34	34	39	39
1000	36	33	32	34	36	32	29	31	31	33	33	37	33	39	36	34	34	39	39
1250	38	34	33	33	34	33	29	33	31	33	32	36	38	38	35	34	34	37	37
1600	40	37	37	36	36	35	30	32	34	34	32	35	37	37	36	33	33	40	40
2000	36	36	36	33	34	32	29	29	30	32	30	34	33	33	36	31	31	40	40
2500	31	29	28	30	32	28	23	23	24	29	28	30	30	30	34	31	31	38	38
3150	31	25	23	25	28	22	20	22	25	30	27	29	27	27	33	31	31	37	37
4000	31	25	25	25	26	22	20	24	23	31	28	29	27	27	35	33	33	39	39
5000	29	24	24	24	26	21	19	22	26	27	26	28	27	27	32	30	30	35	35
6300	30	28	27	25	27	24	22	23	29	28	24	27	25	25	31	29	29	34	34
8000	35	34	30	29	32	29	27	26	31	30	25	31	23	26	31	28	28	32	32
10000	26	23	22	23	25	19	19	18	23	27	21	29	27	27	27	23	23	27	27
OVERALL	70	72	69	65	70	66	68	67	67	67	66	69	69	68	65	68	68	75	75

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 8.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST 9F-709-001
RUN 02
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 29 C
BAR PRESS = .743 M HG
REL HUMID = 67 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	70	68	67	67	66	70	70	68	70	70	72	73	70	70	69	69	69	71	71
16	66	65	67	67	66	67	67	67	71	71	72	73	70	71	71	69	70	70	71
20	61	62	63	63	65	68	68	67	70	70	71	73	72	70	69	73	71	74	72
25	58	56	56	59	62	65	65	64	67	67	71	70	71	69	68	73	68	74	69
31.5	59	57	57	56	59	61	61	59	61	61	67	65	65	66	65	67	68	68	70
40	61	62	61	59	59	60	60	64	61	61	64	62	62	64	62	65	65	66	69
50	60	55	58	55	56	59	59	63	59	59	60	59	56	60	61	62	60	63	65
63	56	53	56	55	57	58	53	61	58	58	59	59	53	58	60	57	57	59	59
80	58	55	56	53	55	55	55	58	52	62	60	57	56	56	59	52	55	54	56
100	59	59	57	55	55	53	53	58	59	59	58	57	57	54	64	54	54	53	56
125	56	58	56	55	54	52	52	52	56	56	55	51	53	52	64	51	53	50	53
160	51	46	46	46	46	44	44	47	50	50	50	47	49	51	62	48	46	43	48
200	46	45	45	44	42	41	41	43	46	46	45	45	47	52	62	47	48	45	47
250	49	46	46	44	42	40	40	40	44	44	44	44	47	52	63	44	49	52	52
315	46	42	42	38	35	34	34	34	39	39	41	44	43	47	56	43	50	56	57
400	44	41	40	35	36	35	35	33	39	39	41	43	45	50	51	52	58	63	63
500	47	46	44	39	40	42	42	39	41	41	42	43	49	51	49	57	62	64	71
630	45	44	44	38	40	43	43	39	43	43	43	44	43	51	49	56	62	64	70
800	43	41	43	38	40	41	41	39	44	44	43	45	50	52	49	56	58	65	68
1000	44	42	43	40	42	42	42	39	41	41	42	45	48	52	48	55	59	63	64
1250	47	45	45	43	46	44	44	41	42	42	41	45	47	50	49	55	57	60	63
1600	51	49	49	45	48	45	45	41	41	41	40	45	47	49	48	52	55	57	62
2000	44	46	47	42	44	41	41	38	39	39	39	44	44	47	47	50	52	55	58
2500	36	37	41	37	41	36	36	31	38	38	35	40	42	43	42	45	47	51	53
3150	32	28	30	26	29	29	29	29	39	39	33	38	38	42	40	43	45	48	51
4000	32	27	29	24	25	27	27	28	37	37	31	35	34	40	38	41	40	44	46
5000	31	28	28	24	26	28	28	26	37	37	30	35	32	38	35	39	38	41	44
6300	31	30	29	24	27	26	28	25	35	35	29	31	29	36	33	37	36	39	42
8000	35	35	32	27	31	31	30	25	35	35	30	30	28	34	31	34	31	36	41
10000	27	26	25	21	24	25	26	21	31	31	31	29	25	31	25	28	25	30	33
OVERALL	73	72	72	72	72	74	74	74	76	76	79	79	77	77	77	78	77	80	81

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 8.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST AF-709-001
RUN 03
26 OCT 91
PAGE 2

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 29 C
BAR PRESS = .743 M HG
REL HUMID = 67 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	74	73	73	73	75	71	73	73	72	77	77	77	77	76	77	78	75	73	78
16	73	73	72	73	72	74	71	76	74	77	77	76	76	78	77	78	76	74	79
20	69	68	72	70	72	72	73	75	76	78	78	81	81	80	79	78	79	75	80
25	63	65	67	65	69	70	71	74	72	73	73	77	77	79	80	80	78	74	79
31.5	64	62	67	65	68	65	66	68	67	68	68	74	74	76	75	76	77	73	79
40	63	63	65	64	65	65	67	68	67	66	66	71	71	71	73	74	76	69	76
50	64	60	63	60	62	63	65	67	67	62	62	65	65	69	68	72	72	66	73
63	59	58	61	60	59	62	61	64	63	61	61	61	61	65	61	65	67	62	67
80	59	57	59	58	60	59	59	62	62	59	59	61	61	64	58	62	61	59	61
100	63	57	58	55	58	56	56	58	57	60	60	64	64	59	57	56	56	58	59
125	63	56	56	55	60	58	57	59	58	64	64	61	61	56	55	56	54	53	60
160	57	50	51	50	50	51	50	51	49	58	58	57	57	55	53	53	51	55	57
200	52	47	48	46	46	47	46	47	44	52	52	55	55	57	55	53	55	55	58
250	55	50	50	50	47	45	44	44	43	52	52	55	55	59	59	53	57	55	61
315	51	46	44	41	40	37	39	41	38	50	50	49	49	55	52	48	56	58	65
400	47	44	44	40	40	42	36	39	38	51	51	50	50	54	51	52	58	58	69
500	51	50	48	44	49	47	43	44	40	51	51	52	52	57	51	57	60	64	72
630	47	46	46	41	43	43	40	43	40	50	50	51	51	55	52	59	61	66	72
800	45	43	43	40	43	42	41	43	40	49	49	51	51	55	51	57	59	63	70
1000	45	44	44	43	43	43	40	41	39	47	47	51	51	56	51	56	59	60	67
1250	48	47	48	45	47	45	43	42	41	47	47	51	51	54	52	56	56	55	62
1600	51	51	50	47	49	46	44	43	42	46	46	51	51	57	52	53	54	54	60
2000	47	46	49	45	47	43	40	40	41	43	43	49	49	54	50	51	52	51	58
2500	37	38	43	42	44	39	34	34	36	41	41	47	47	49	46	46	49	46	53
3150	31	29	31	30	32	31	30	32	36	41	41	42	42	47	44	44	47	44	51
4000	30	26	32	27	28	27	27	31	36	39	39	37	37	42	42	41	44	42	47
5000	31	31	34	26	27	28	26	30	35	38	38	36	36	39	40	39	43	40	44
6300	32	31	30	26	28	27	26	28	33	38	38	32	32	36	36	36	41	37	39
8000	35	34	32	28	31	28	28	28	33	37	37	34	34	34	33	33	38	38	37
10000	27	27	28	23	28	23	22	23	30	32	32	27	27	31	27	27	37	31	30
OVERALL	78	78	79	78	80	79	79	81	81	83	83	85	85	86	85	86	85	82	87

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

FIGURE: NORMALIZED FARFIELD NOISE LEVELS

81

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:	IDENTIFICATION:
T-38 AIRCRAFT IN THE	80% RPM	TEMP = 15 C	OMEGA 1.4
TEXAS ASE HUSH HOUSE	SINGLE ENGINE	BAR PRESS = .760 M HG	TEST BF-789-001
J85-GE-5 ENGINE	GROUND RUNUP IN THE	REL HUMID = 70 %	RUN 01
FAR FIELD NOISE	TEXAS ASE HUSH HOUSE		26 OCT 81
			PAGE 6

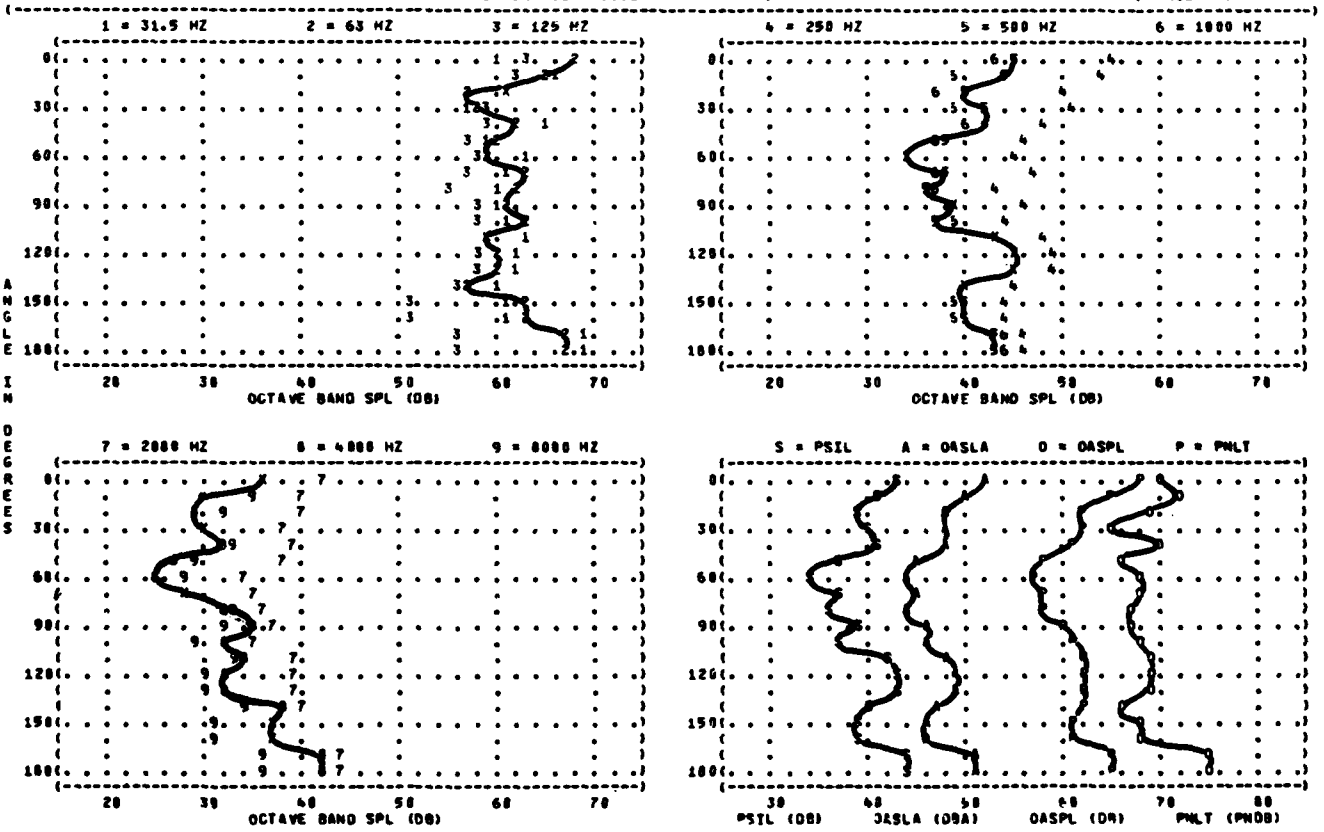


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

81

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 H HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-789-801
RUN 02

26 OCT 81

PAGE 6

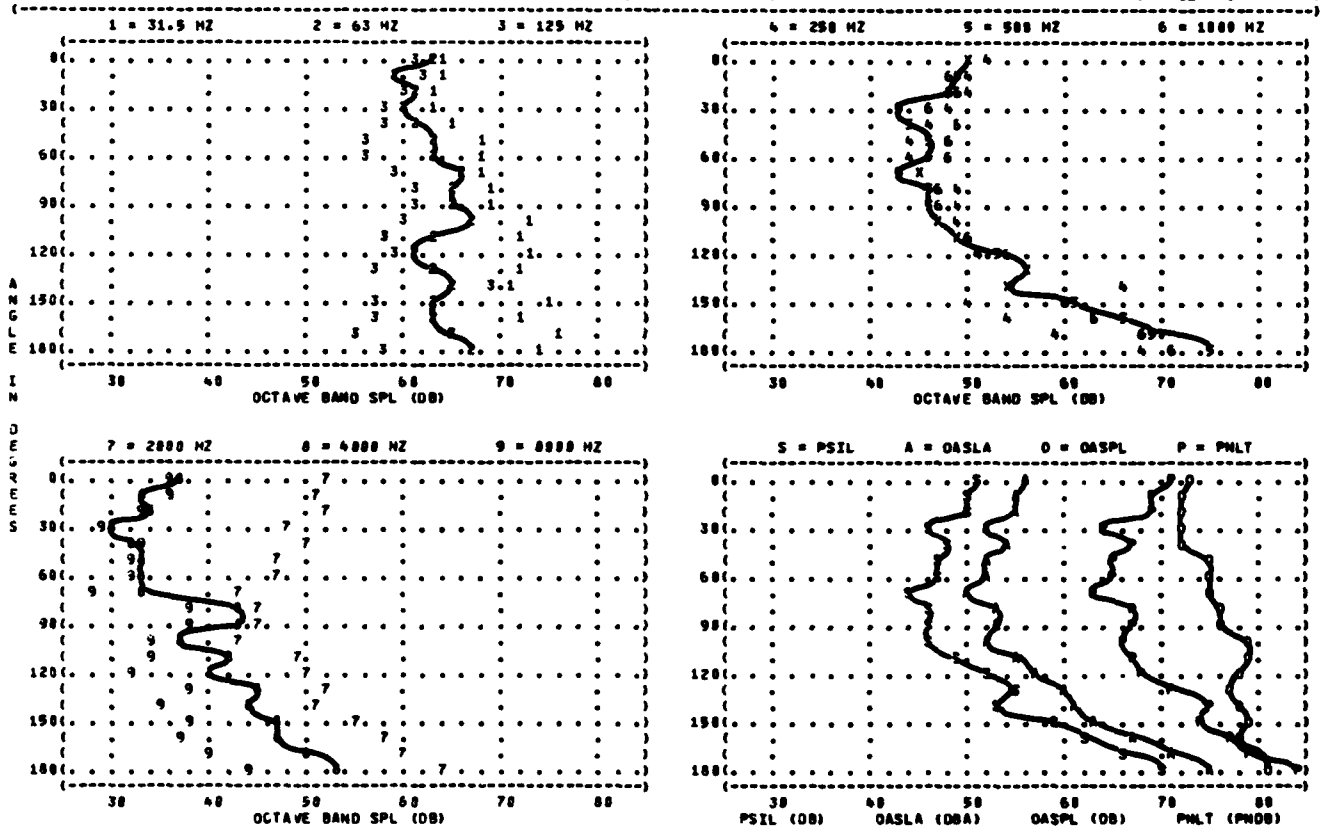


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

81

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-081
RUN 03
26 OCT 81
PAGE 6

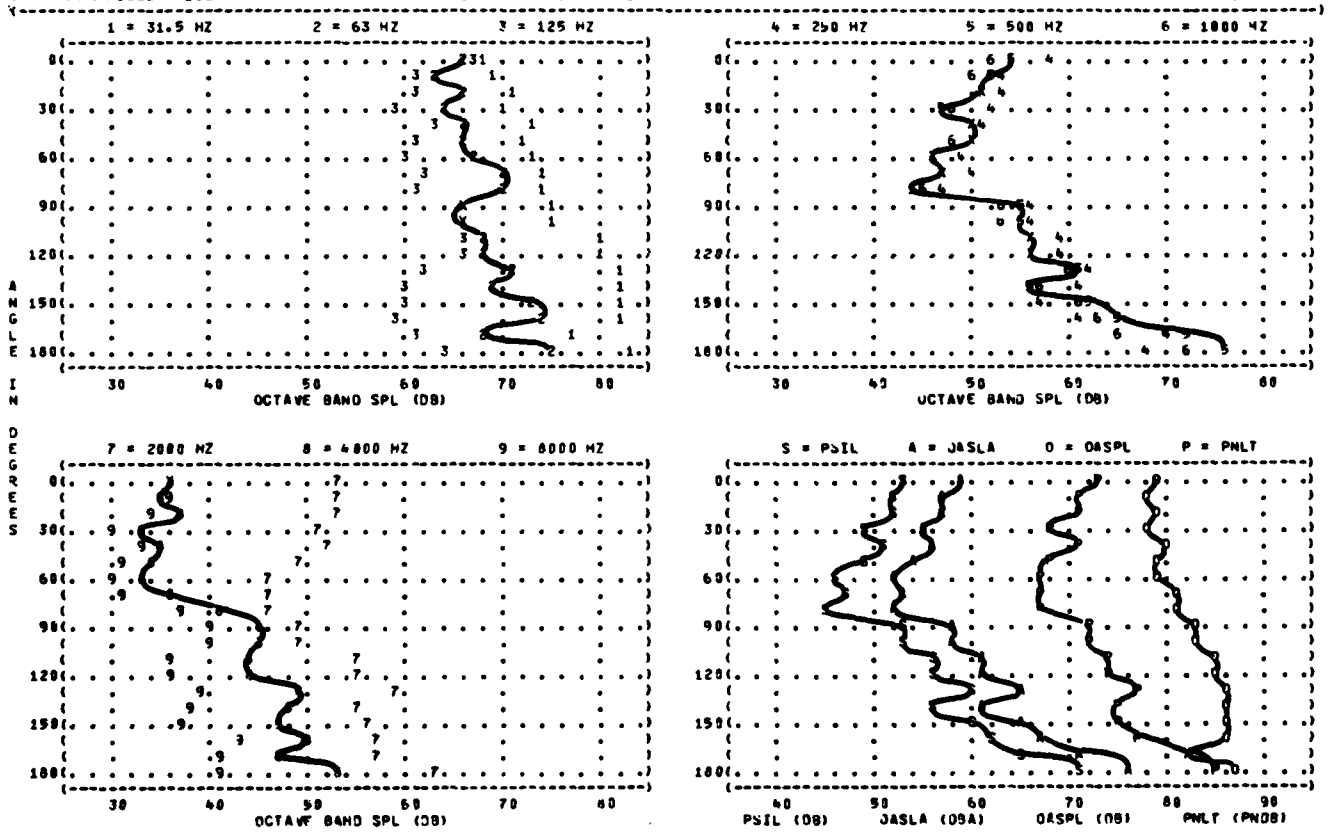


FIGURE: 8.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST OF-709-001
RUN 01
26 OCT 91
PAGE 13

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75

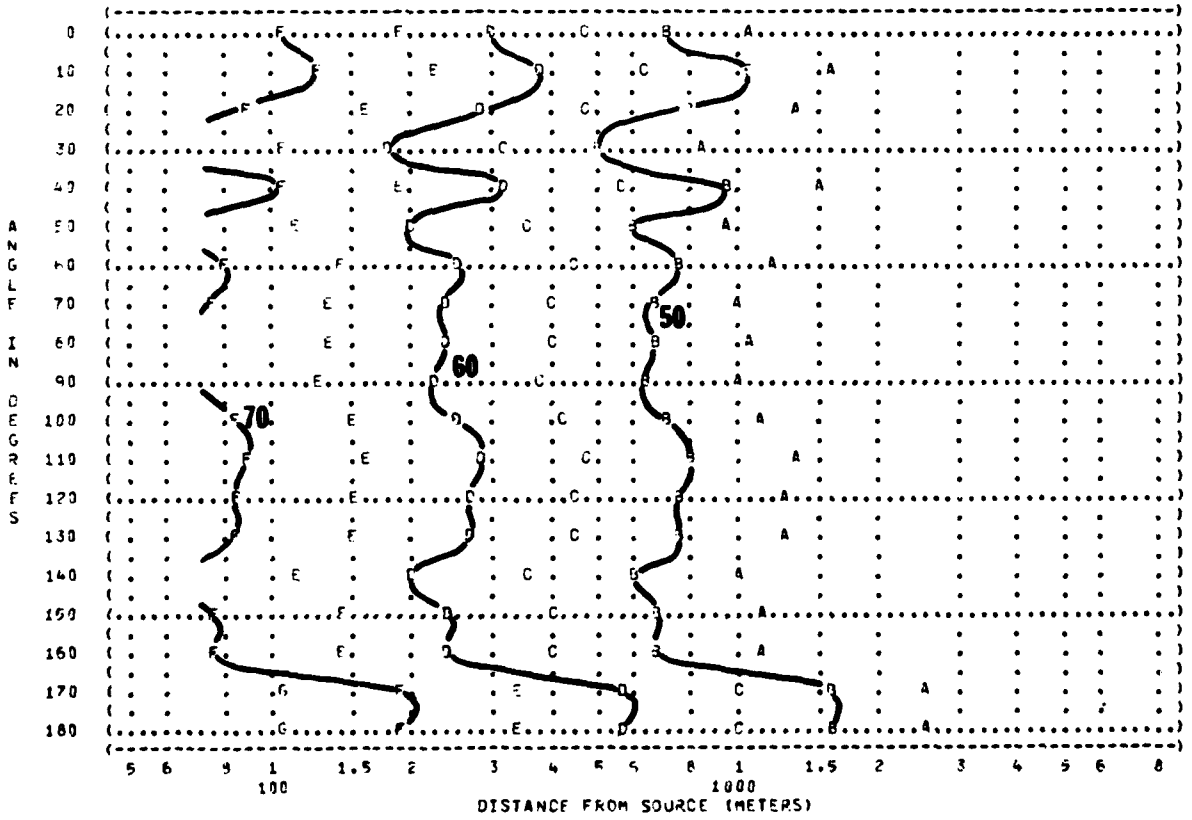


FIGURE: 8.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST 9F-709-001
RUN 02
26 OCT 81
PAGE 13

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

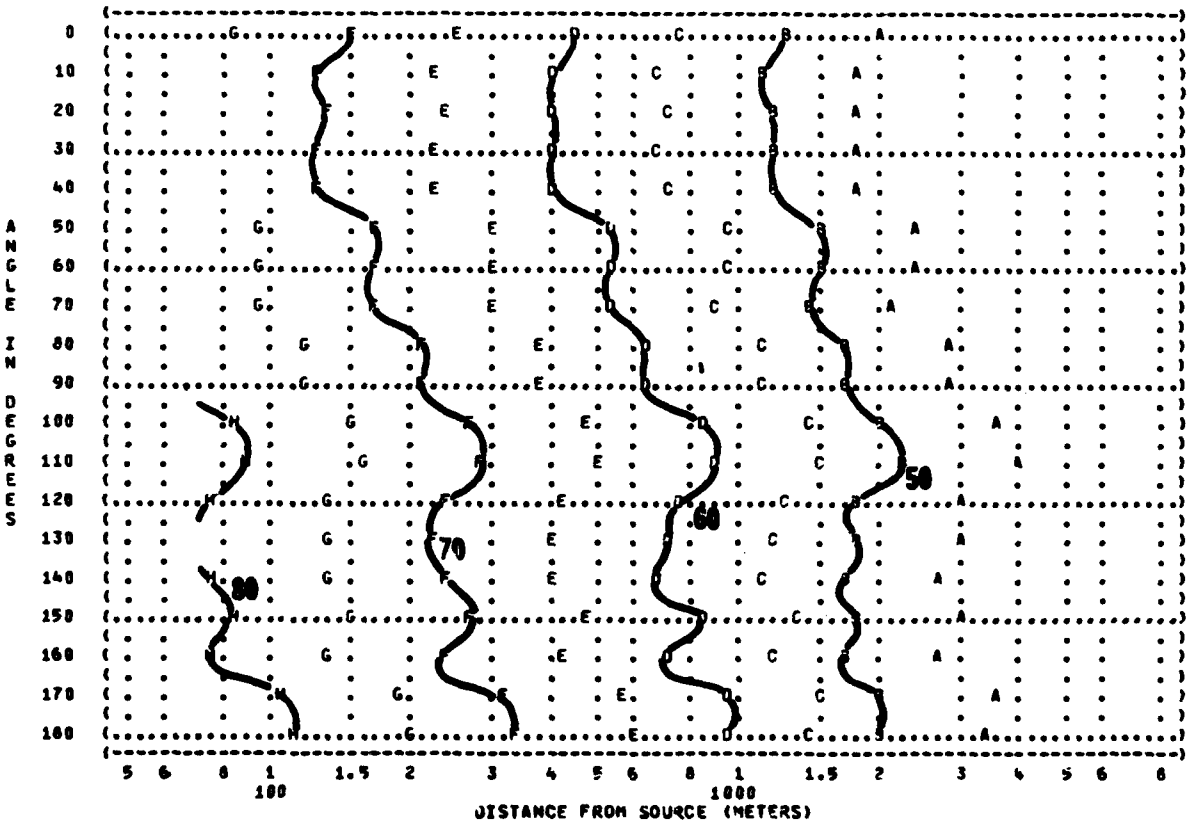


FIGURE: 8.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 03
26 OCT 81
PAGE 13

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

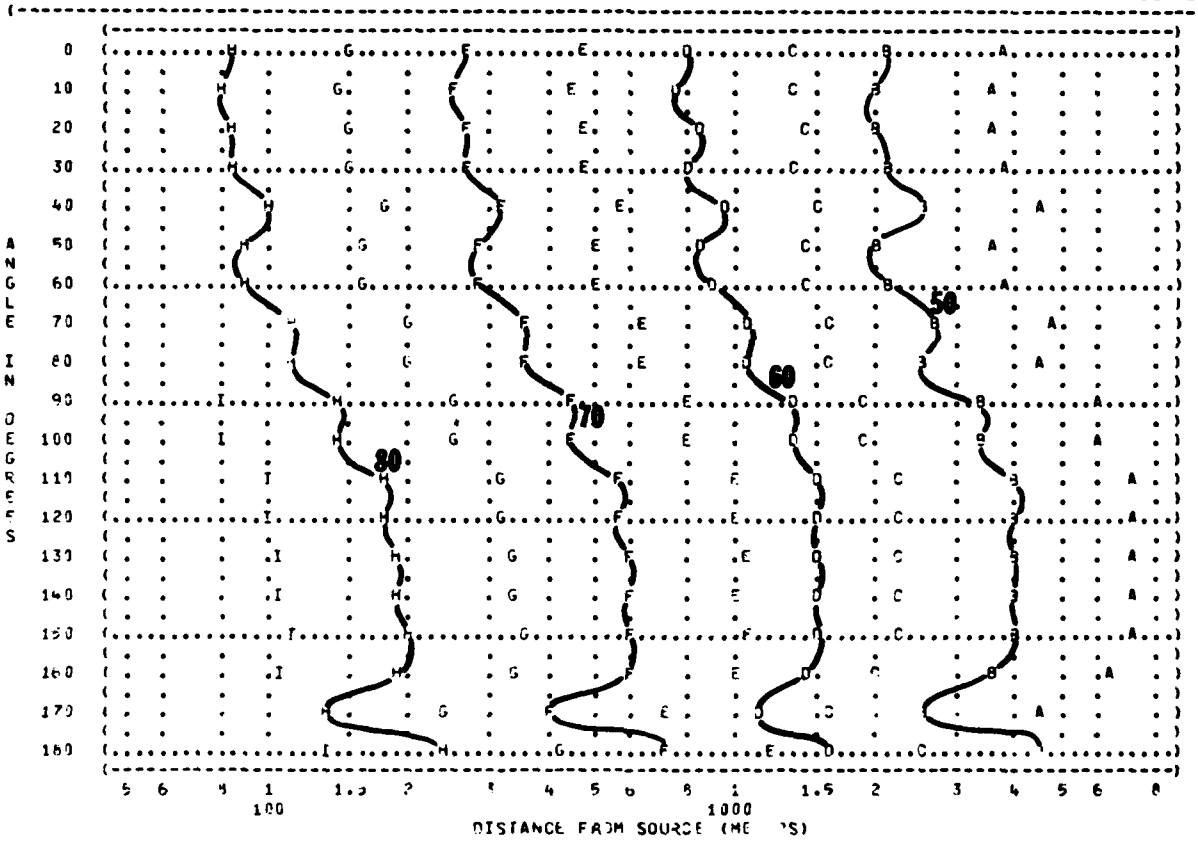


FIGURE 8.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 19 C
BAR PRESS = .760 M MB
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST RF-709-001
RUN 01
26 OCT 81
PAGE 14

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70

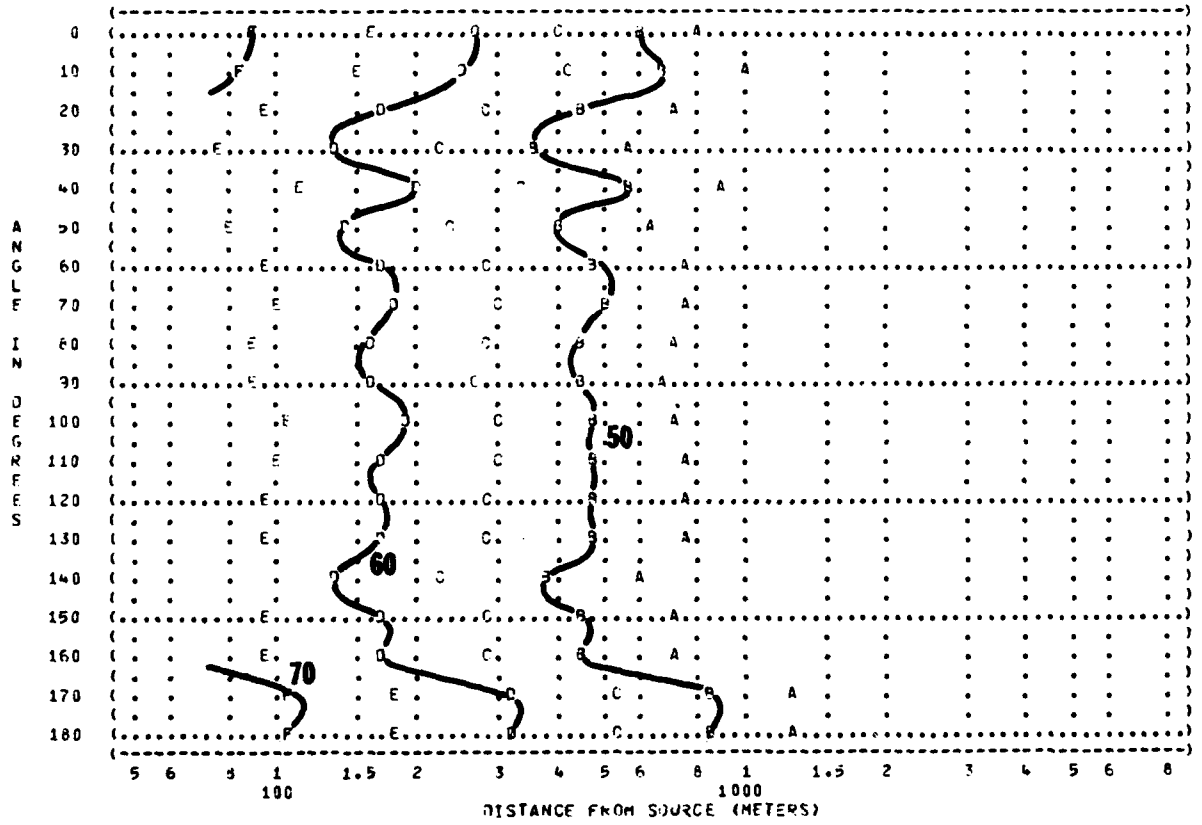


FIGURE: 83 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J65-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 02
26 OCT 81
PAGE 14

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

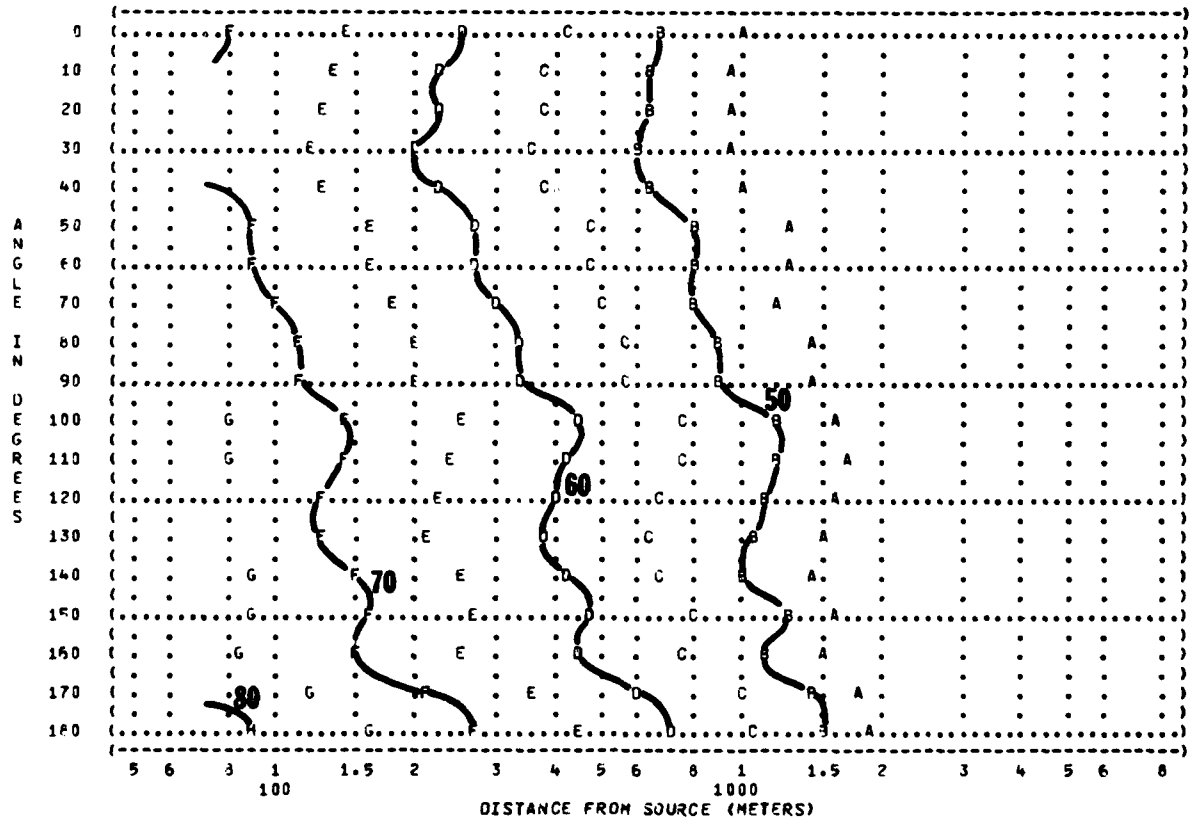


FIGURE 8.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 03
26 OCT 81
PAGE 14

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

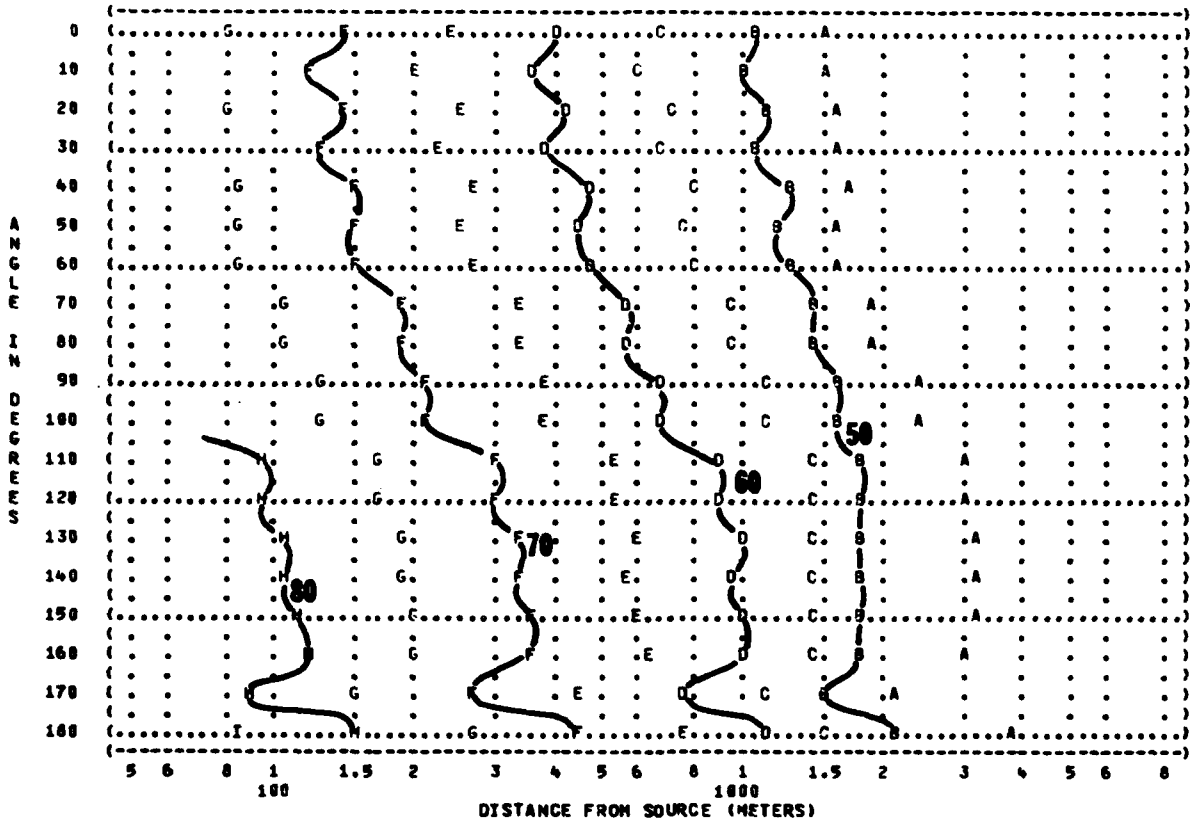


FIGURE 84: A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-789-881
RUN 81
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50

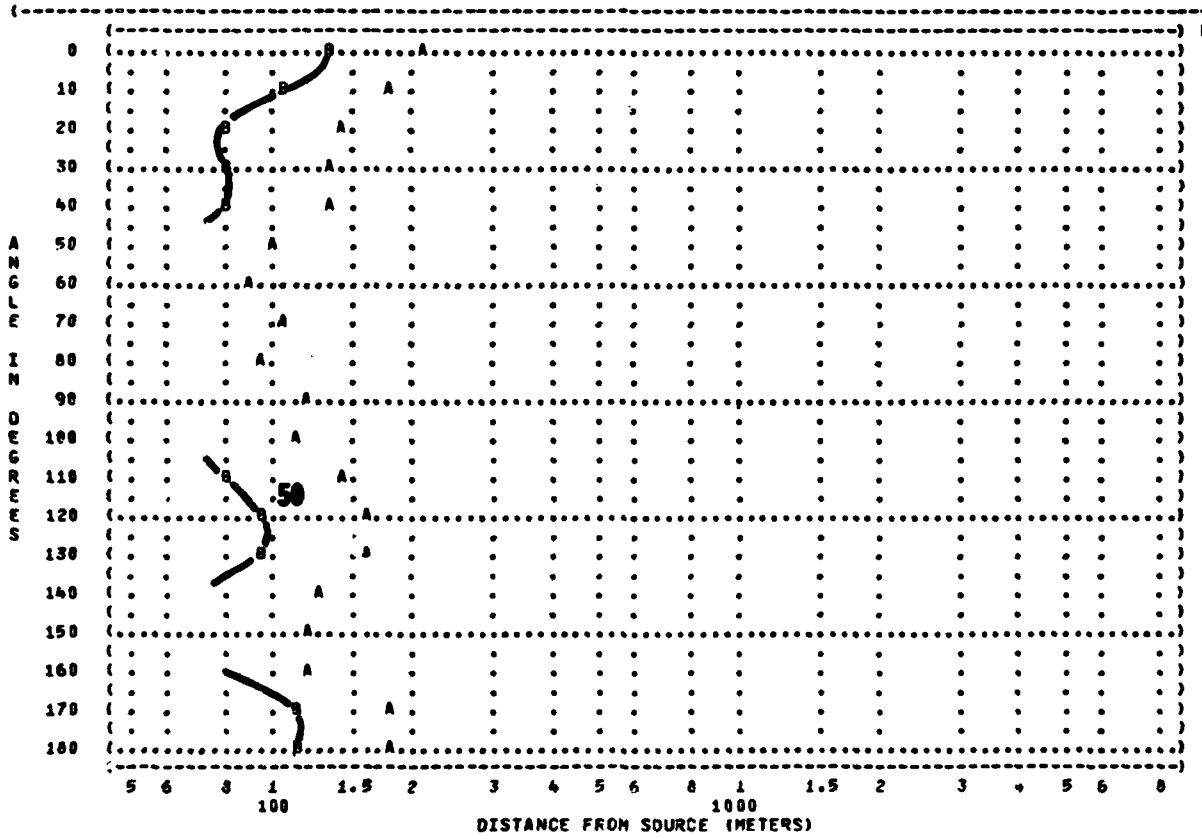


FIGURE 8.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-709-001
RUN 02
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70
G	75

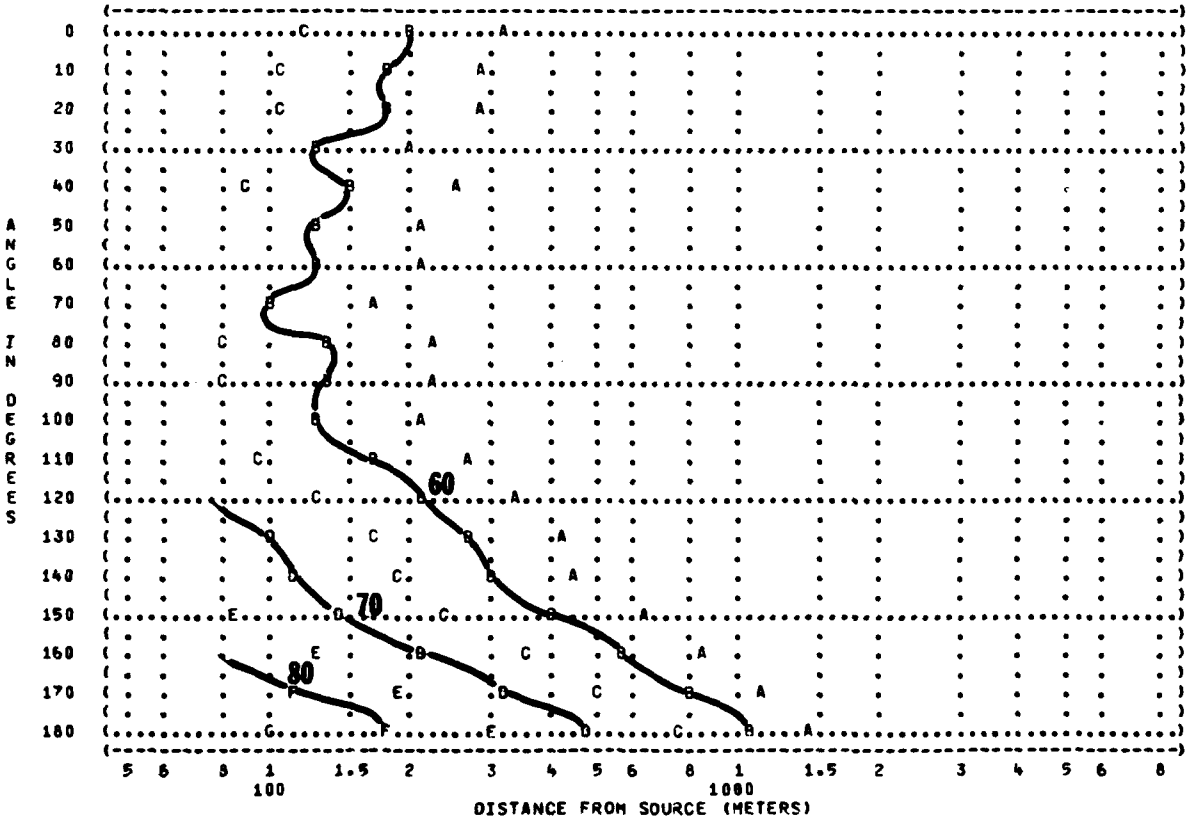


FIGURE 8.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-081
RUN 03
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70
G	75

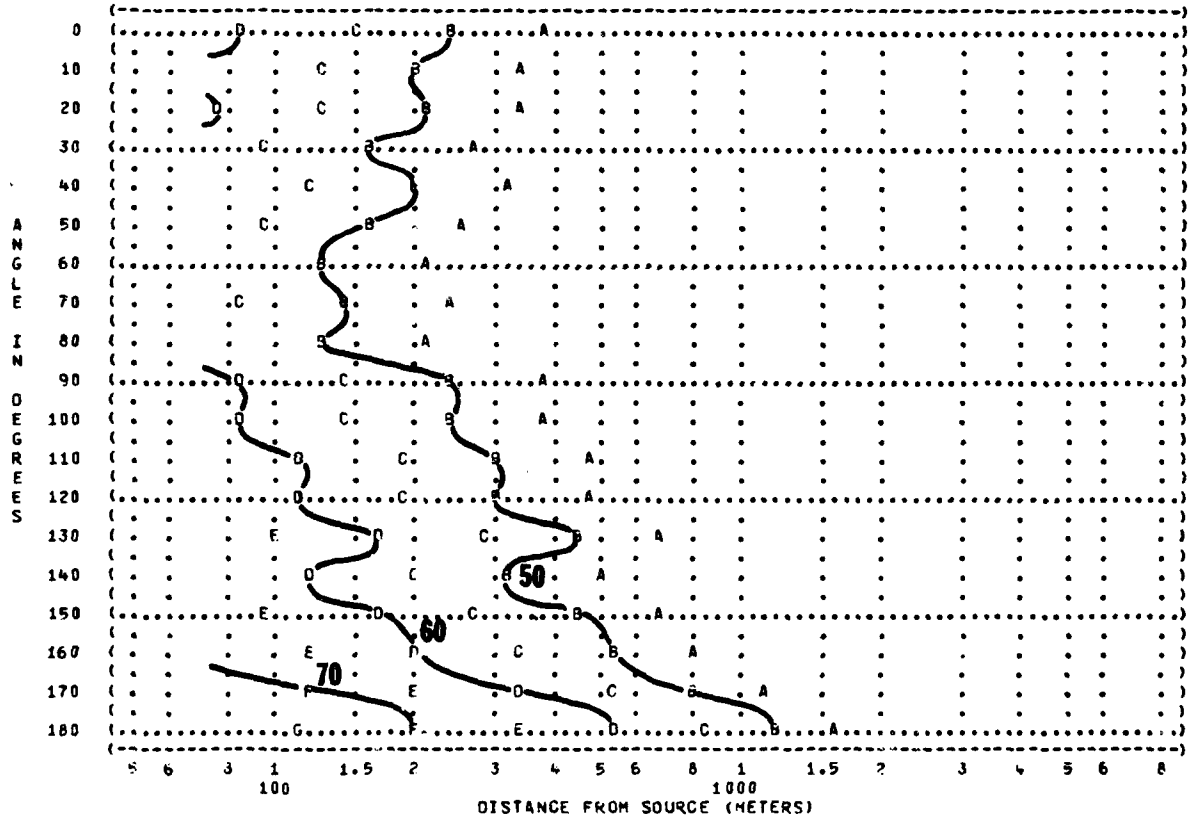


FIGURE: 8.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMFGA 1.4
TEST BF-709-001
RUN 01
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70

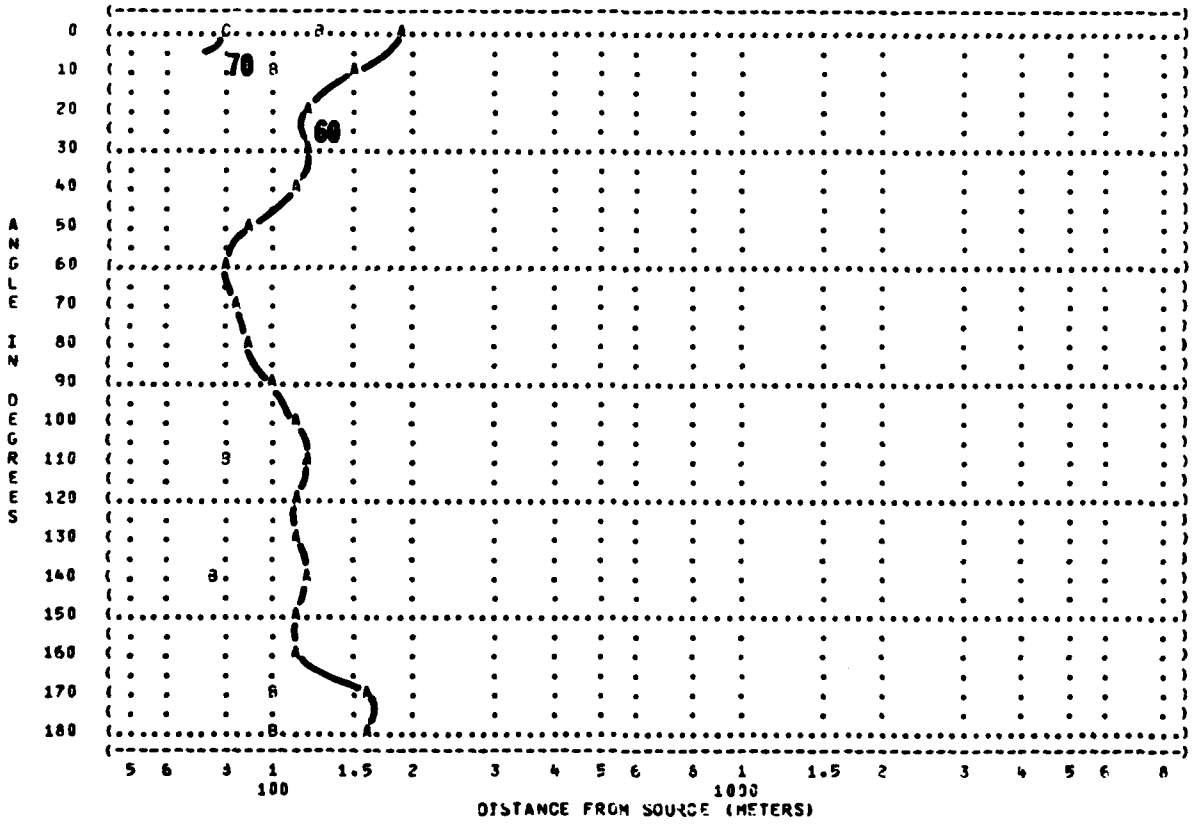


FIGURE: 85 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 02
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85

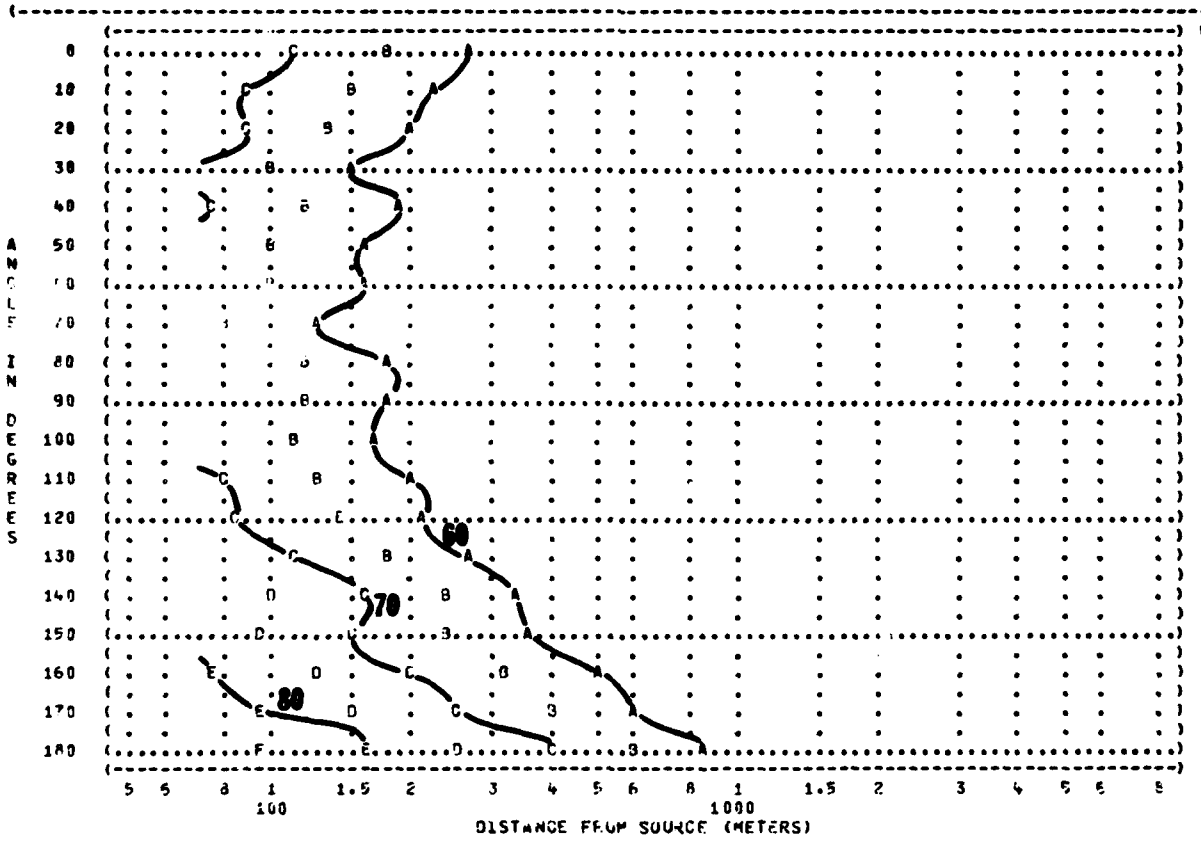


FIGURE: 8.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-F ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 03
26 OCT 81
PAGE 16

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85

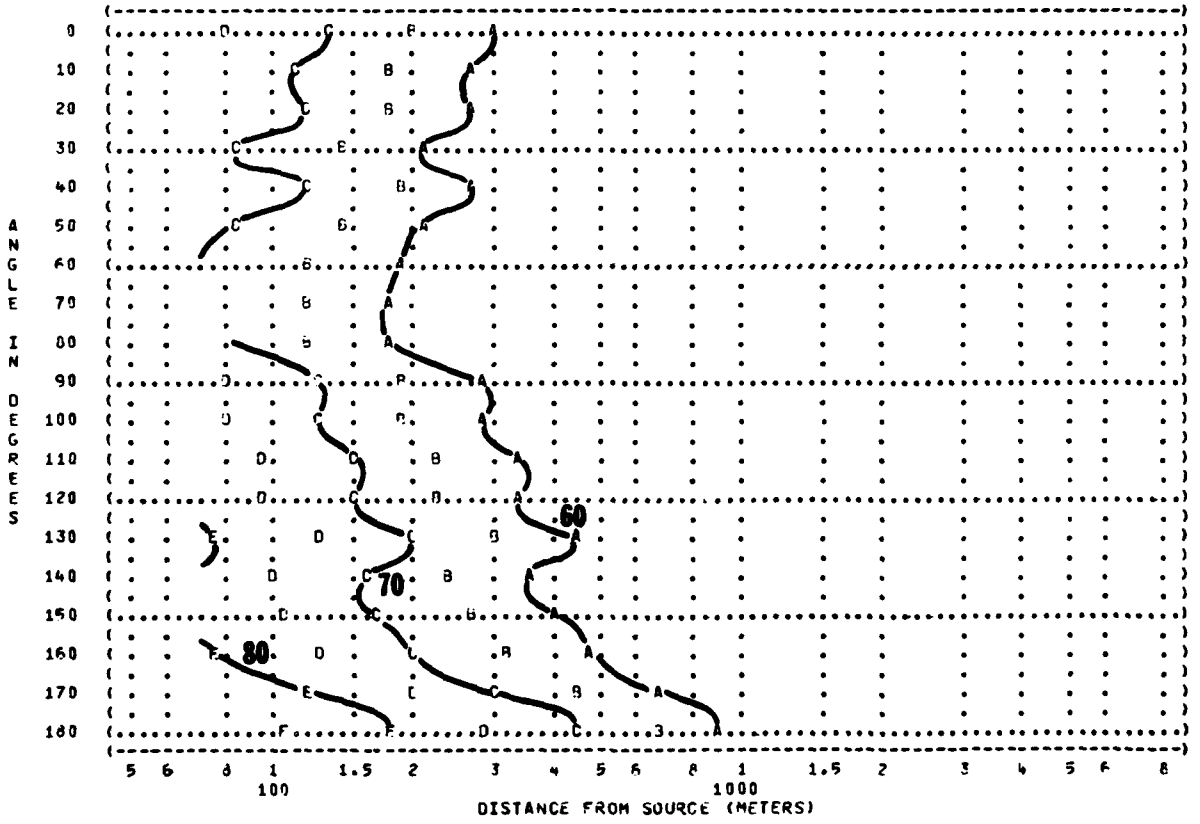


FIGURE 8.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 01
26 OCT 91
PAGE 17

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

OPERATION:
60% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45

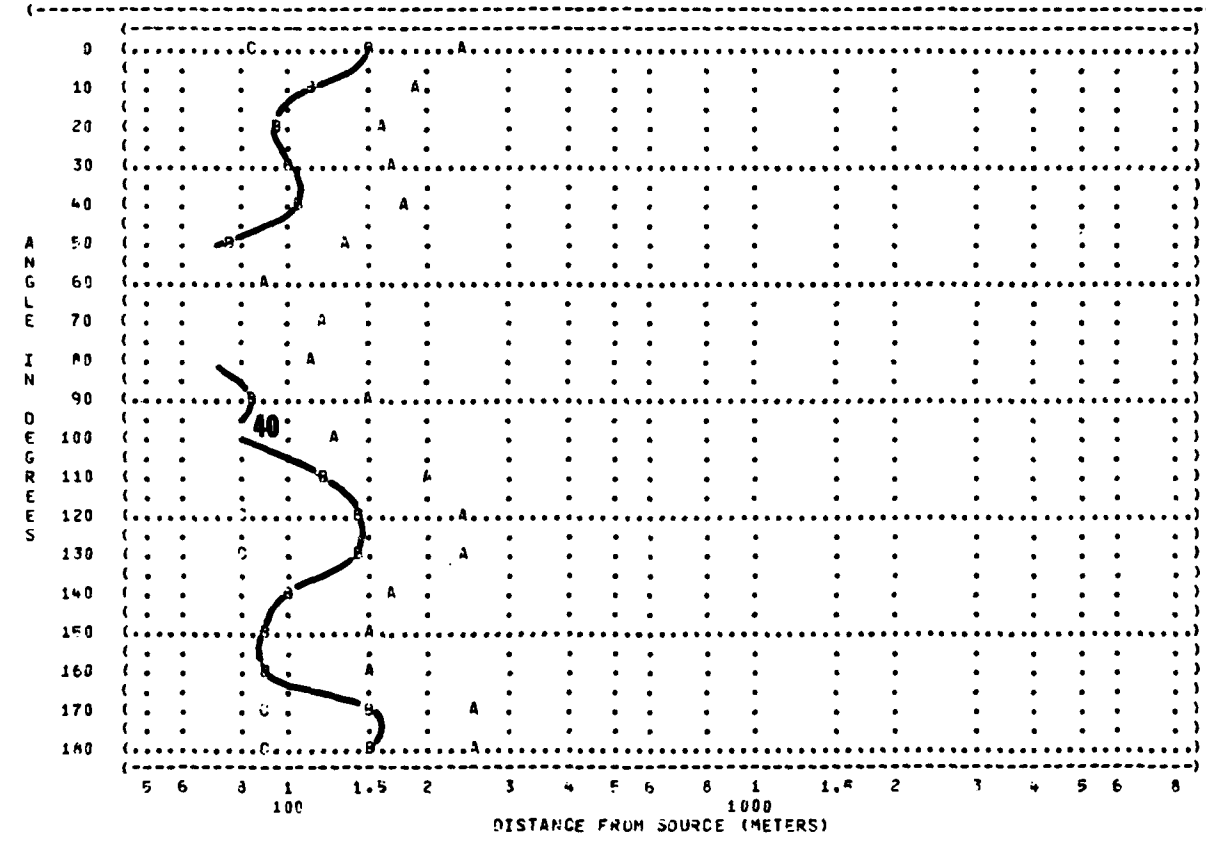


FIGURE: 8.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-709-001
RUN 02
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

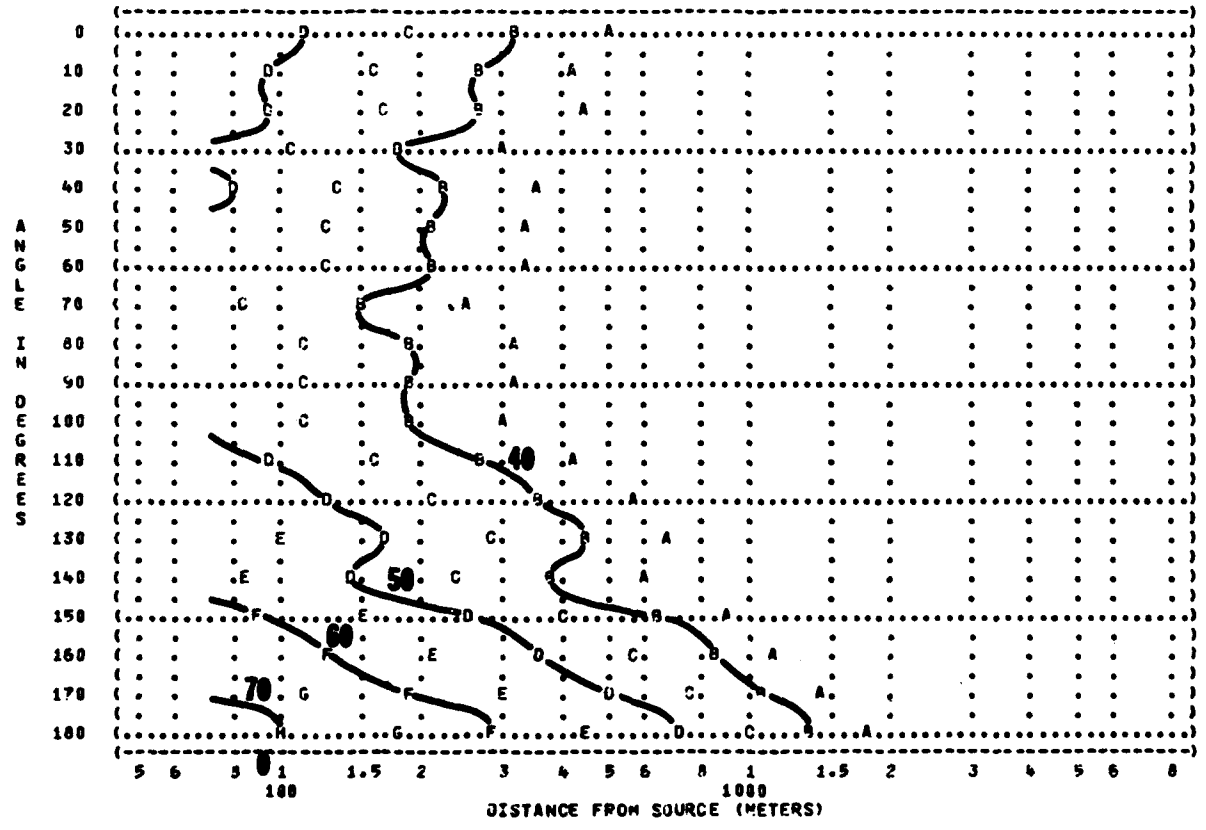


FIGURE 8.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAP PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 03
26 OCT 81
PAGE 17

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

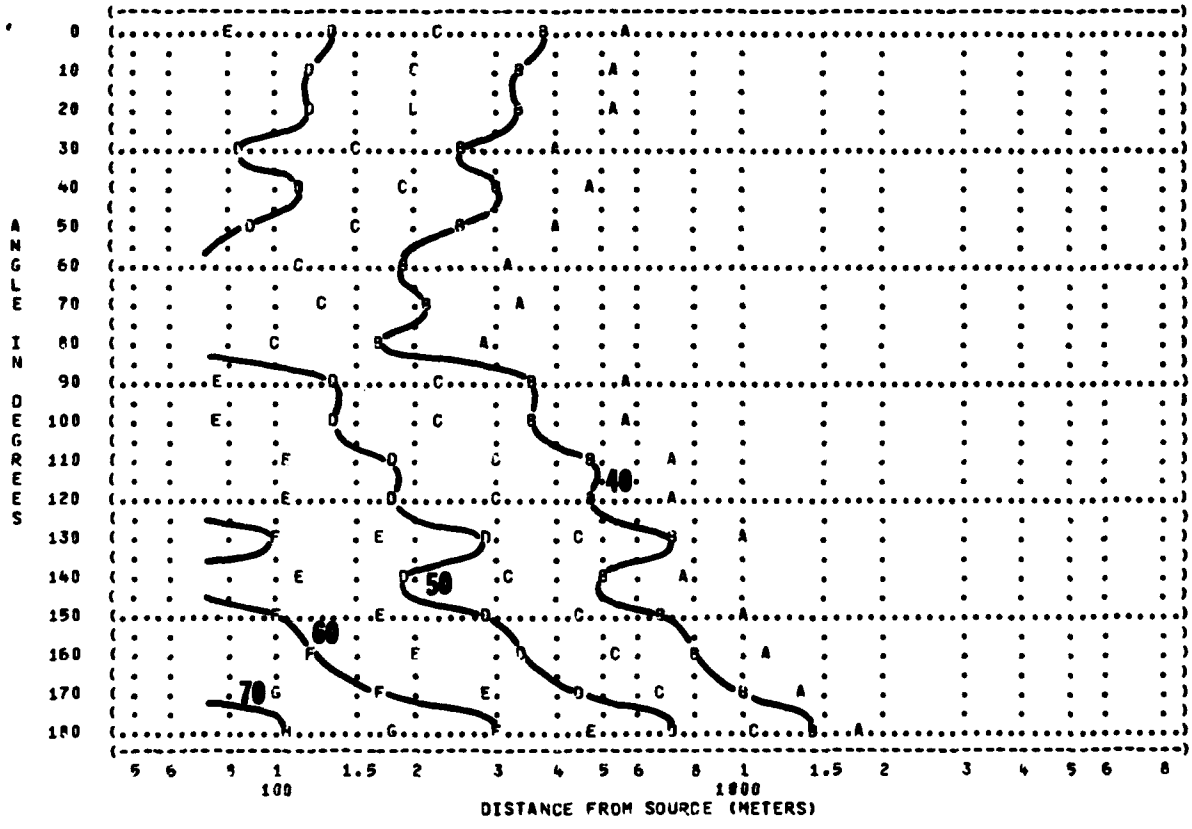


FIGURE 8.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION: OMEGA 1.4 TEST BF-709-001 RUN 01 26 OCT 81 PAGE 7

NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

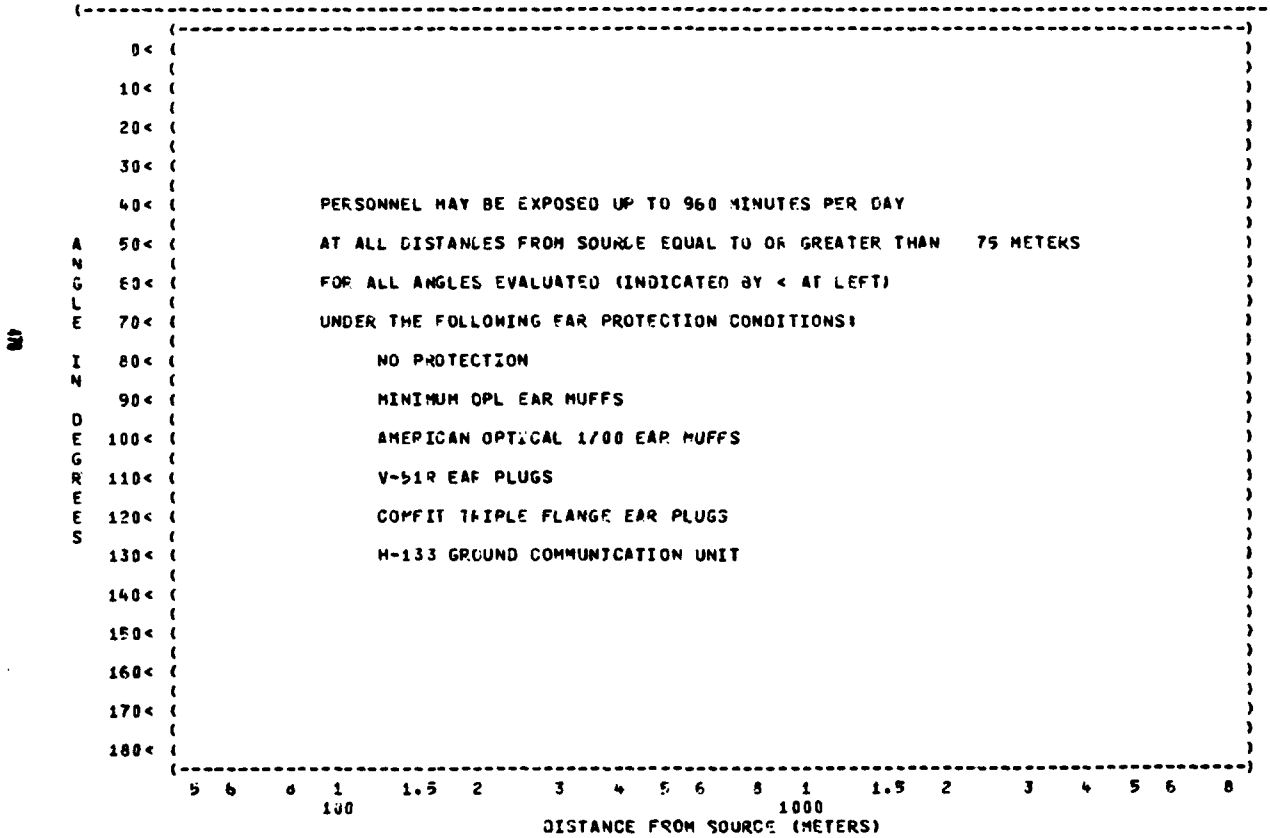


FIGURE 8.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 02
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
T-2 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

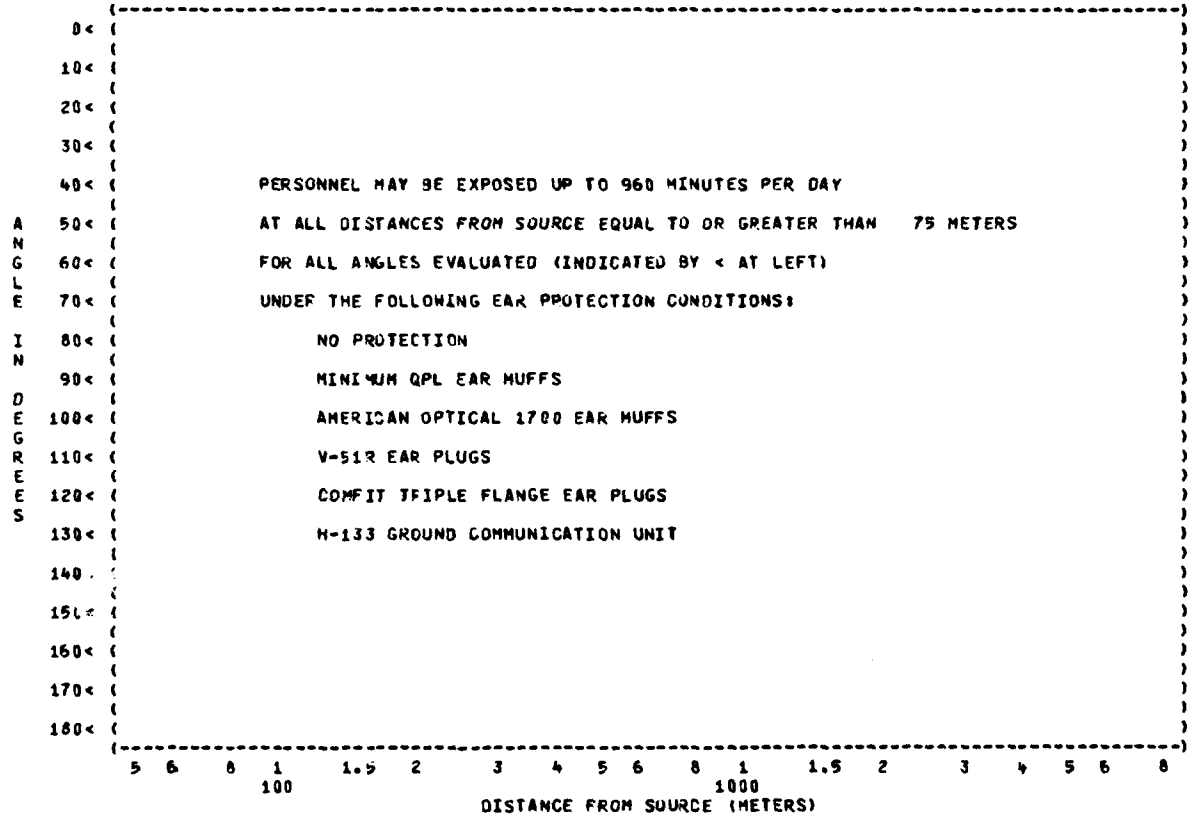


FIGURE 8.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST AF-709-001
RUN 03
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

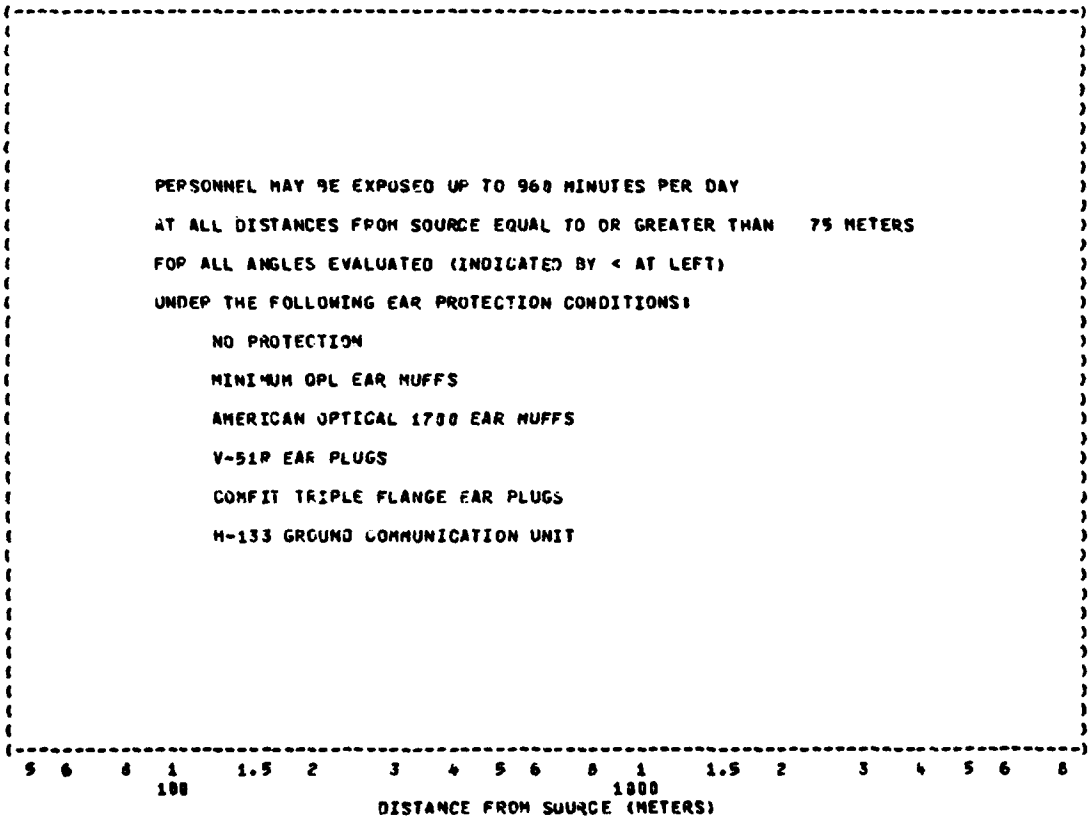


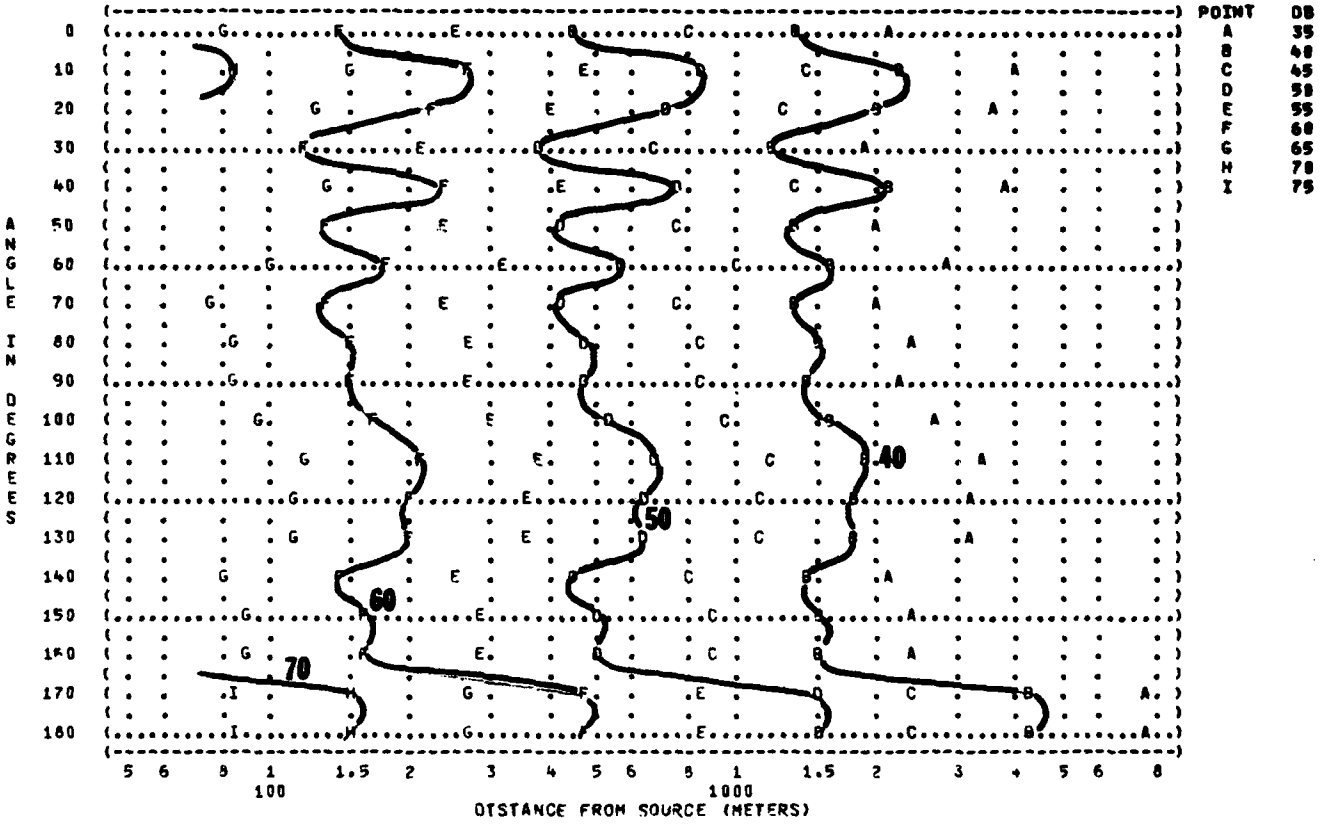
FIGURE: 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-789-881 RUN 01 26 OCT 81 PAGE 18

NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 78 %



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

FIGURE: 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 01
26 OCT 81
PAGE 19

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

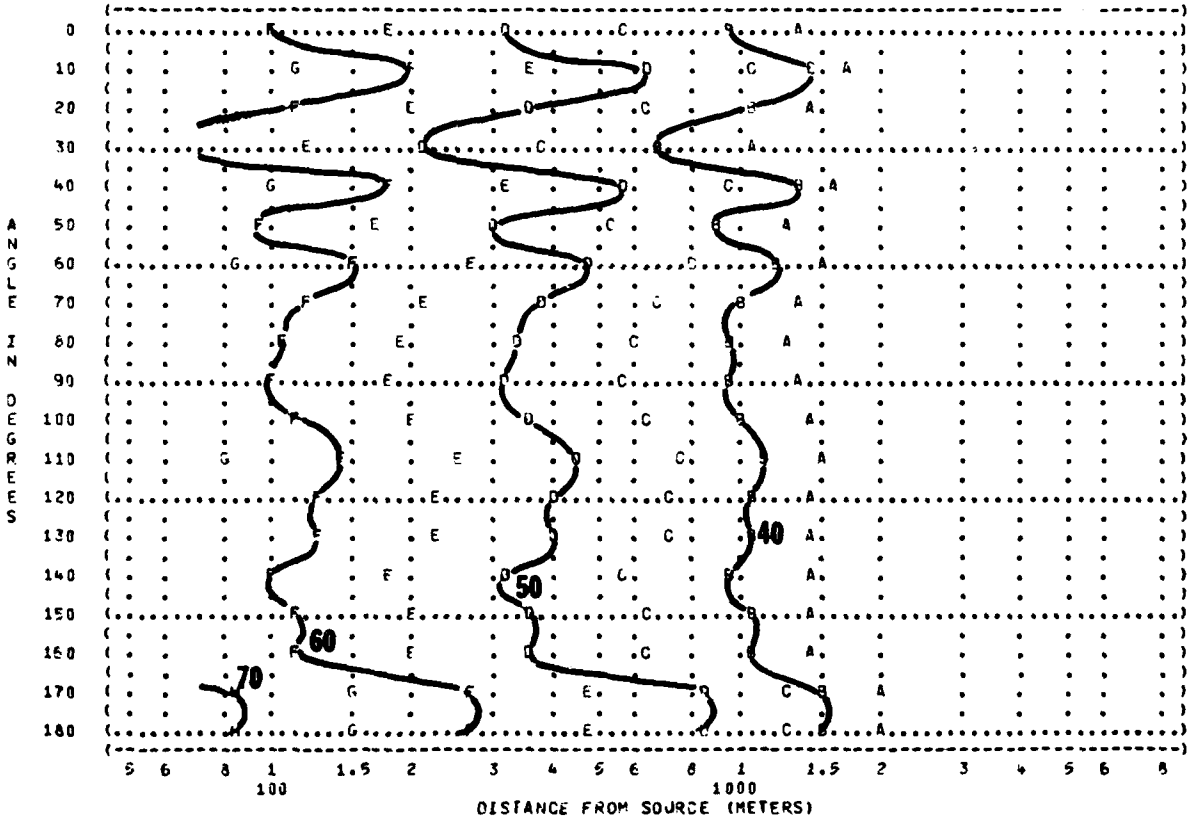


FIGURE: 8.8

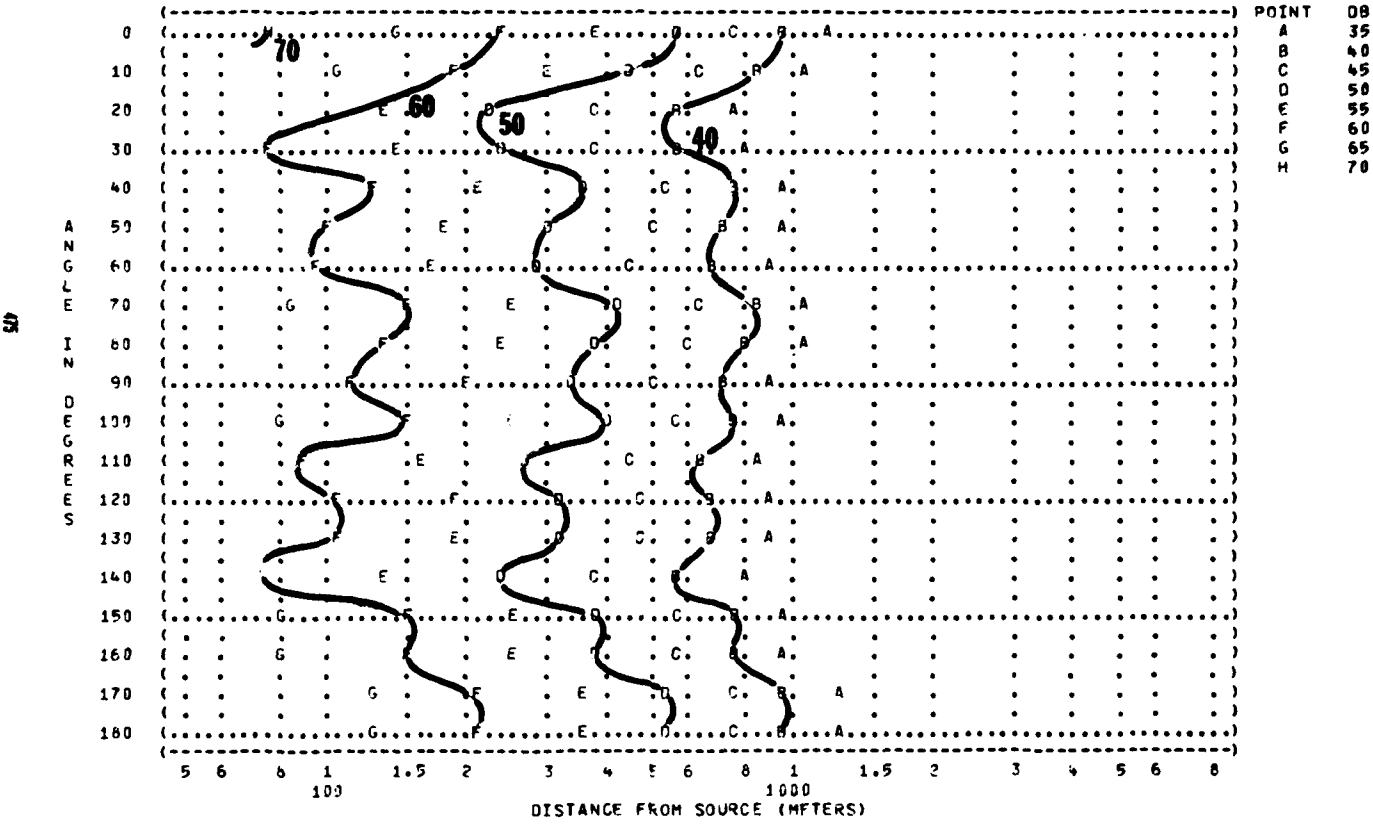
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
63 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 01
26 OCT 81
PAGE 20

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE: 8.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
125 HZ OCTAVE BAND

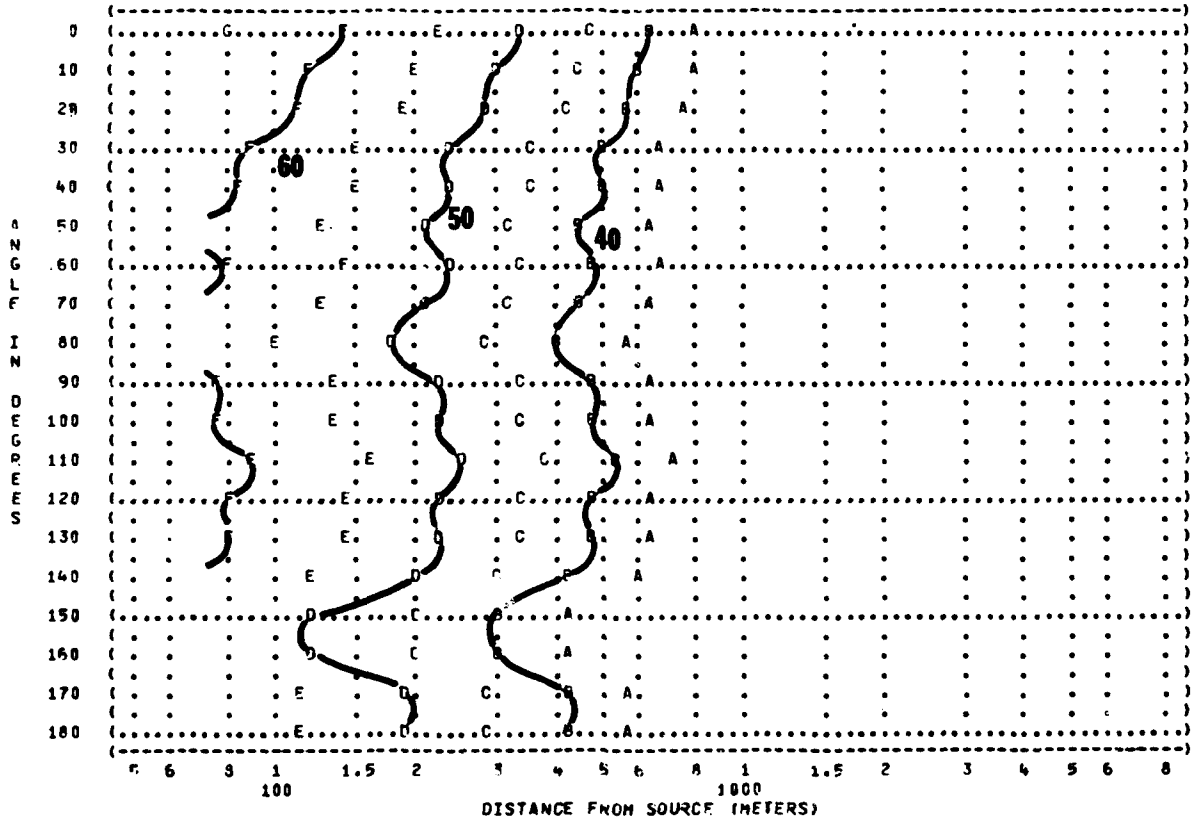
NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 01
26 OCT 81
PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65



AD-A118 773 AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATT--ETC F/G 20/1
USAF BIOENVIRONMENTAL NOISE DATA HANDBOOK, VOLUME 172, HUSH-HOU--ETC(U)
JUL 82 R A LEE, T H RAU, C JONES
UNCLASSIFIED AMRL-TR-75-50-VOL-172 NL

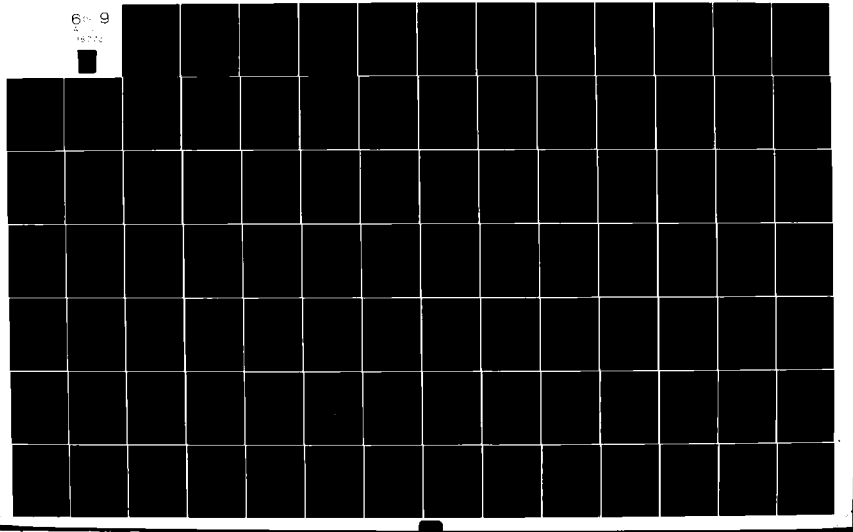


FIGURE: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

8.8

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 01
26 OCT 81
PAGE 22

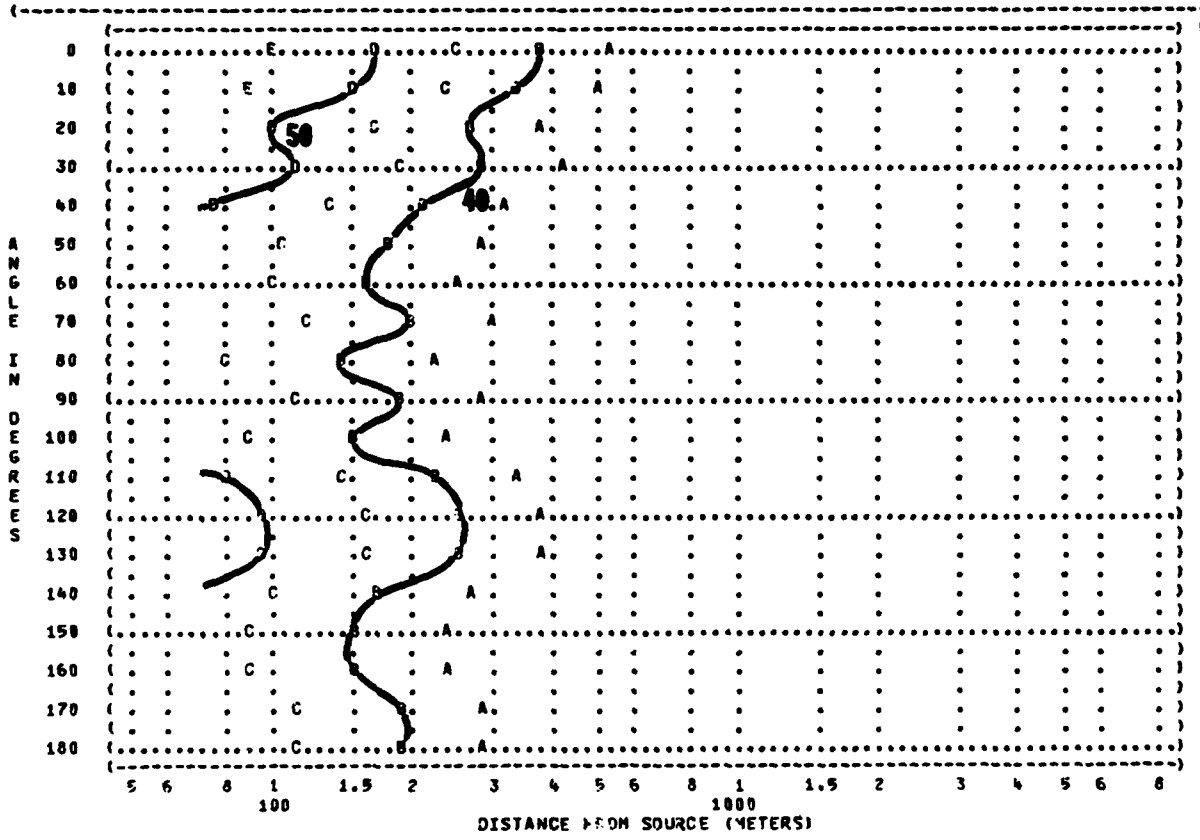


FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-709-001 RUN 01 26 OCT 81 PAGE 23

POINT	DB
A	35
B	40
C	45

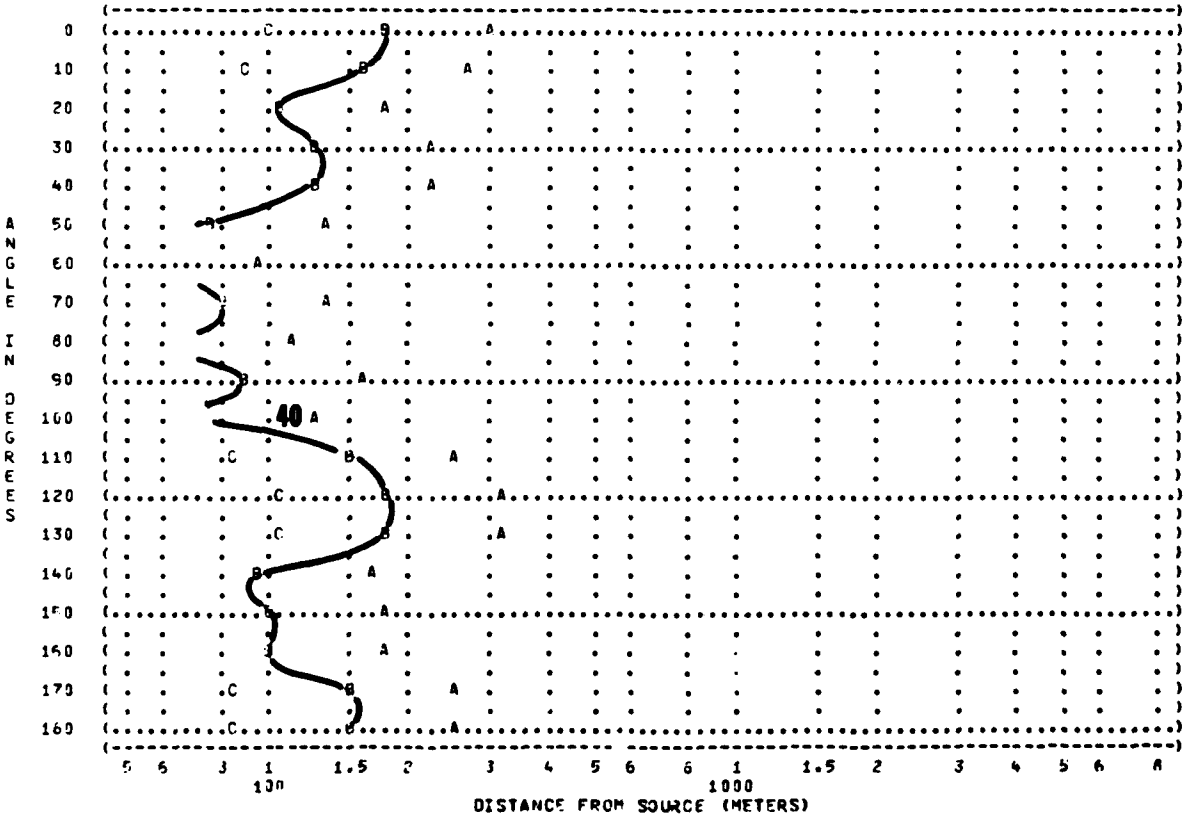


FIGURE: 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

OPERATION: 50% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST 8F-709-801 RUN 01 26 OCT 81 PAGE 24

POINT	DB
A	35
B	48
C	45

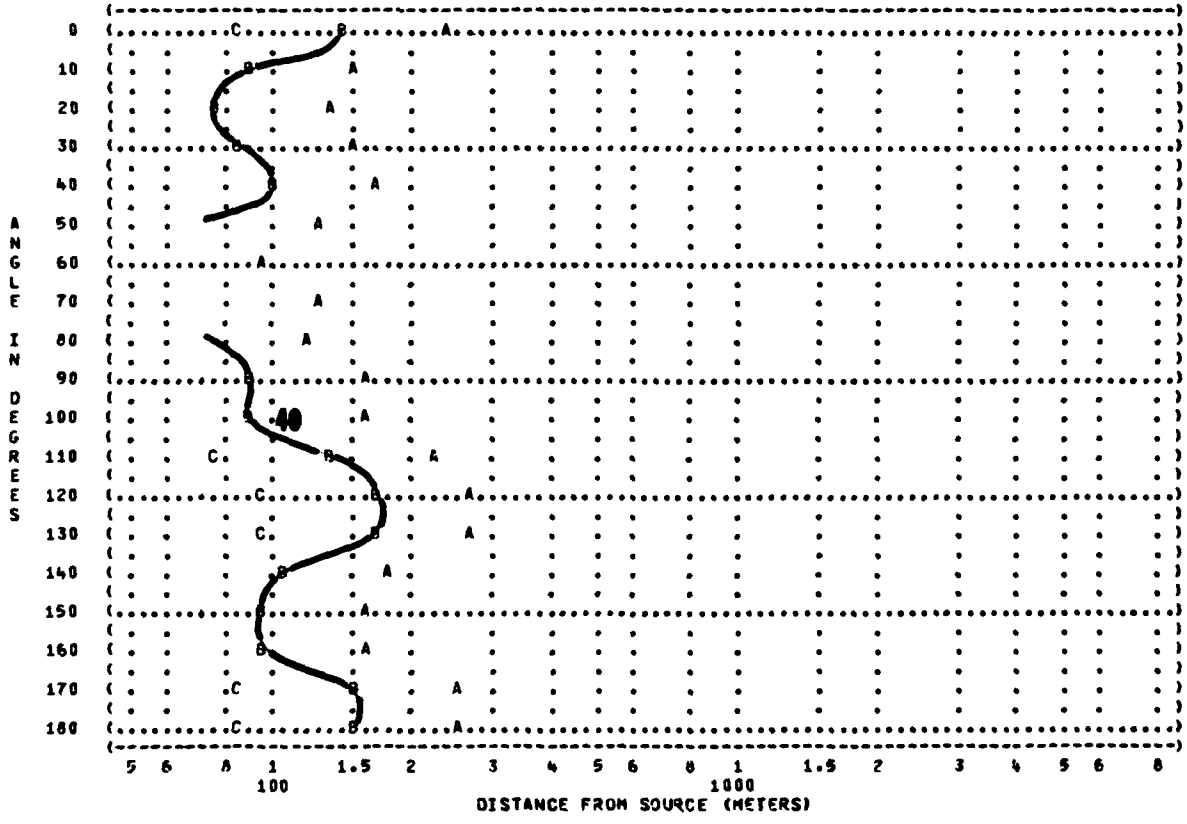


FIGURE 8.8: SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
2000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 01
26 OCT 81
PAGE 25

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	48
C	45

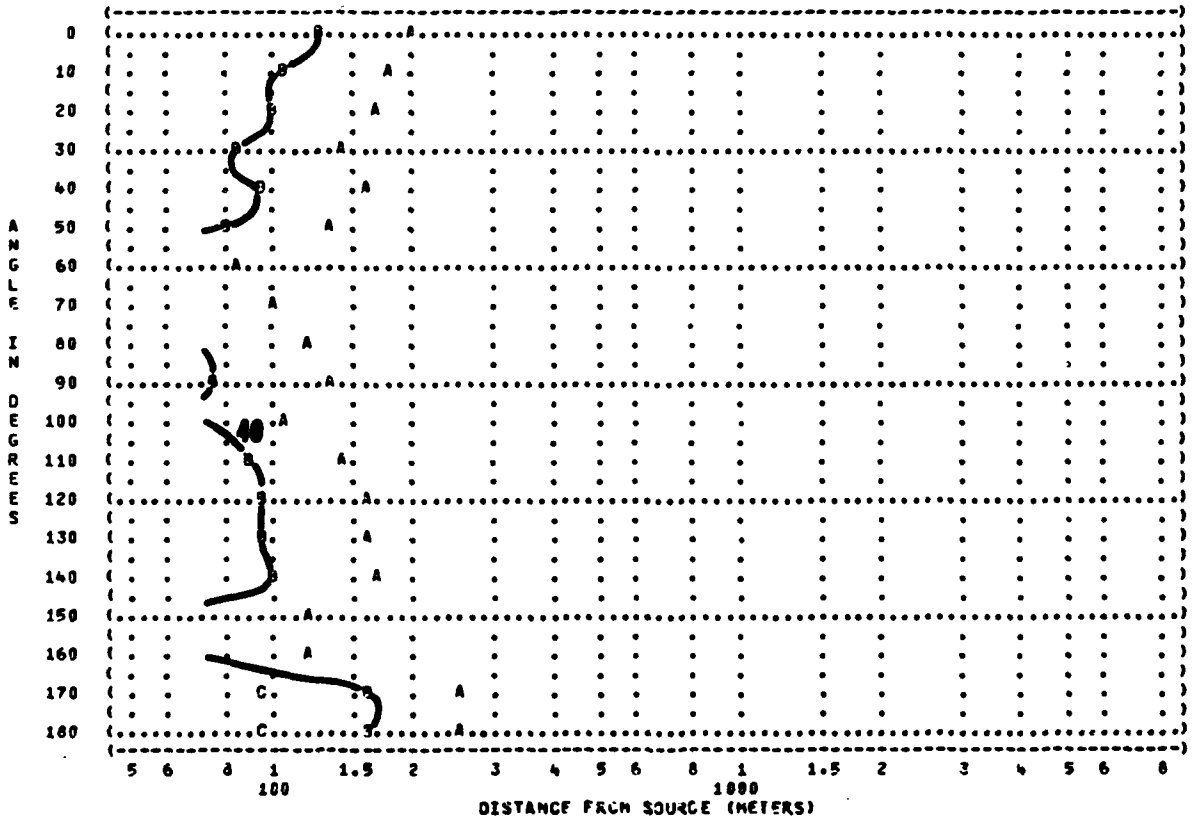


FIGURE 88 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-881
RUN 01
26 OCT 81
PAGE 26

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45

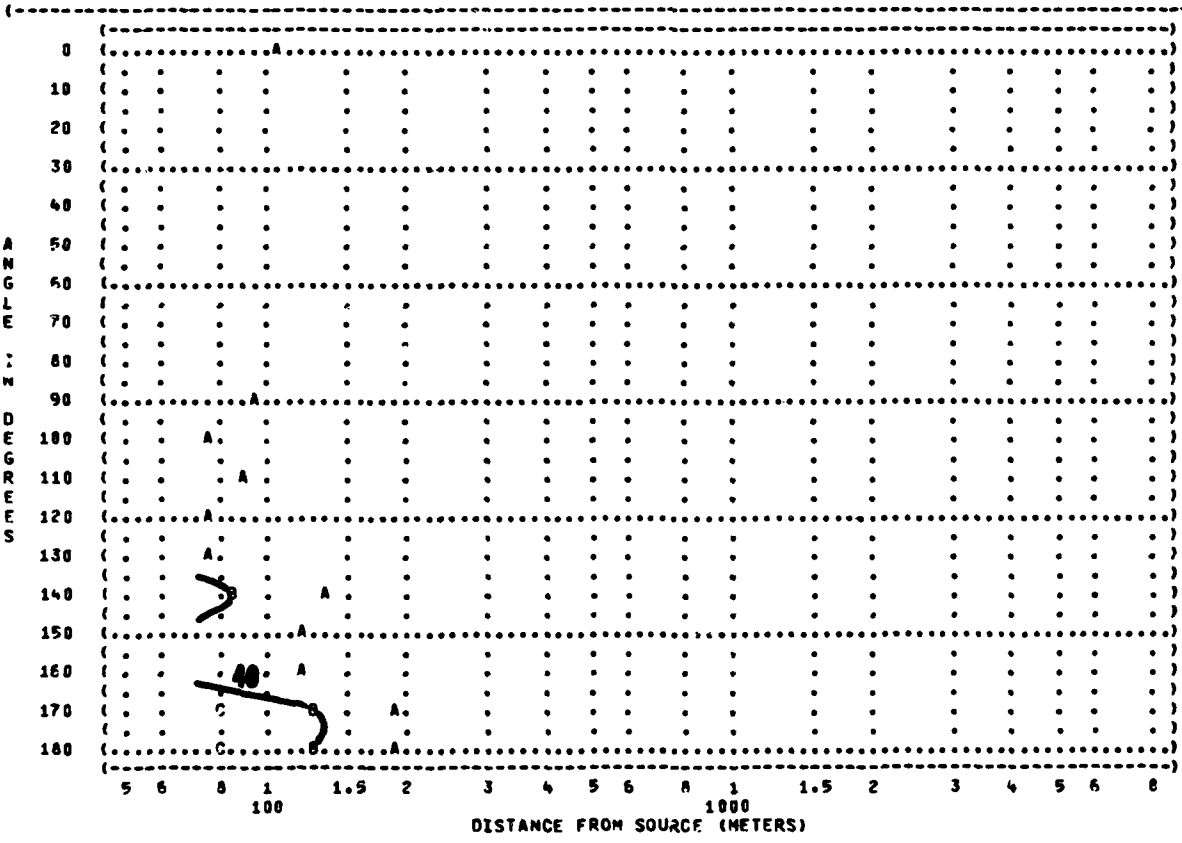


FIGURE: 8.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (dB)
8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST AF-709-001
RUN 01
26 OCT 81
PAGE 27

POINT DB
A 35

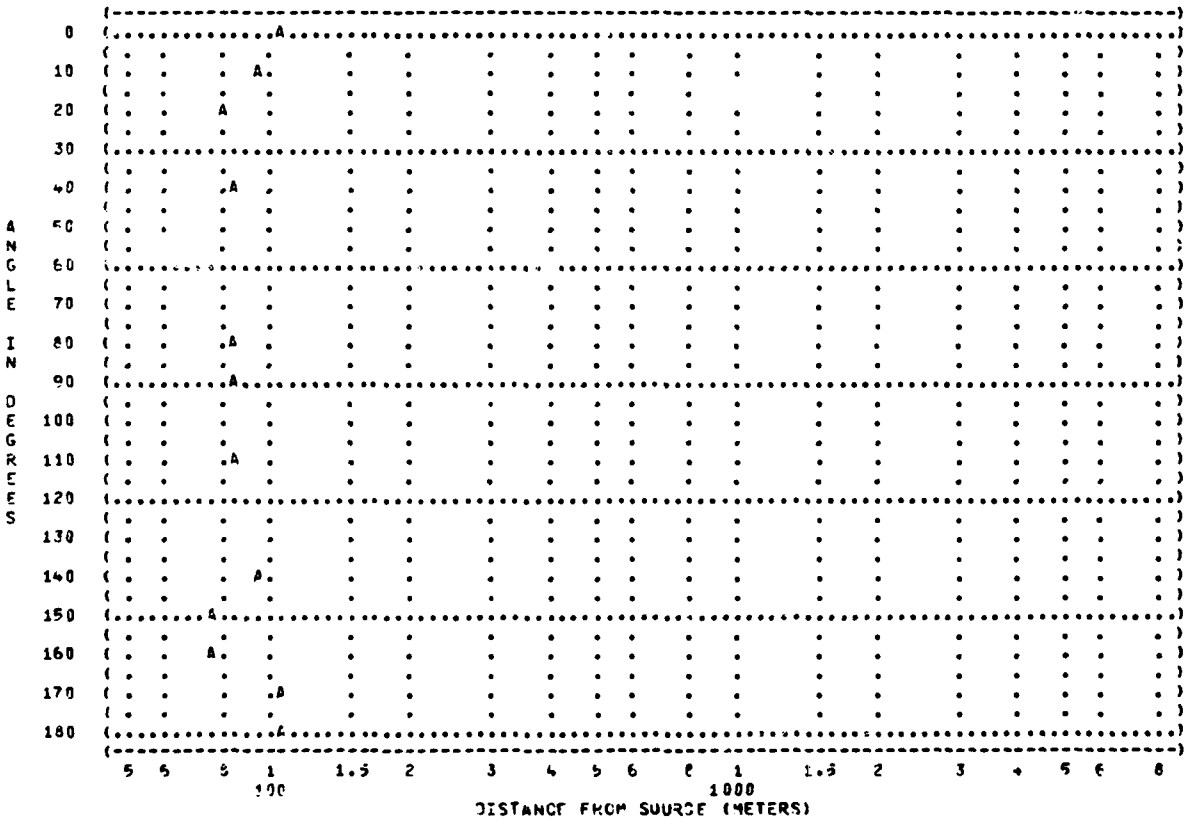


FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST AF-709-001 RUN 02 26 OCT 81 PAGE 18

NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

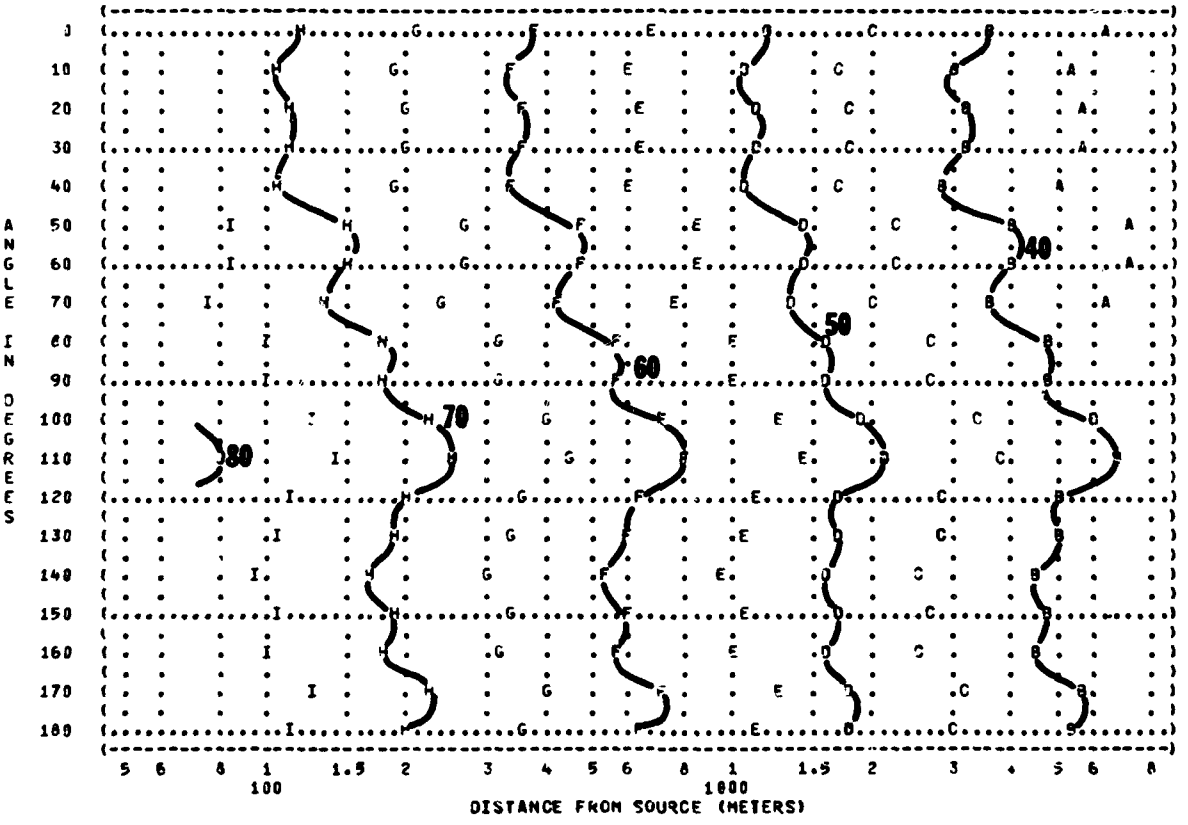


FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 02
26 OCT 81
PAGE 19

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

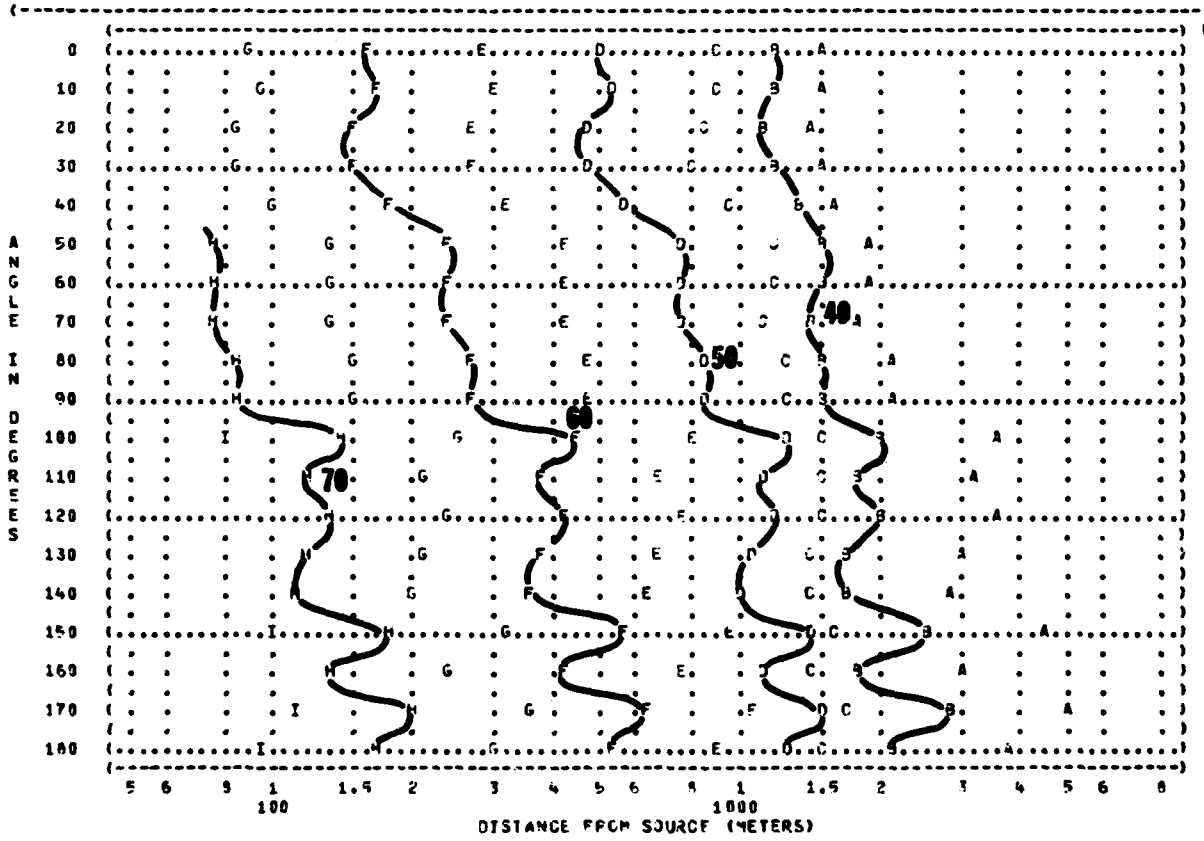


FIGURE: 8.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-801
RUN 02
26 OCT 81
PAGE 28

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

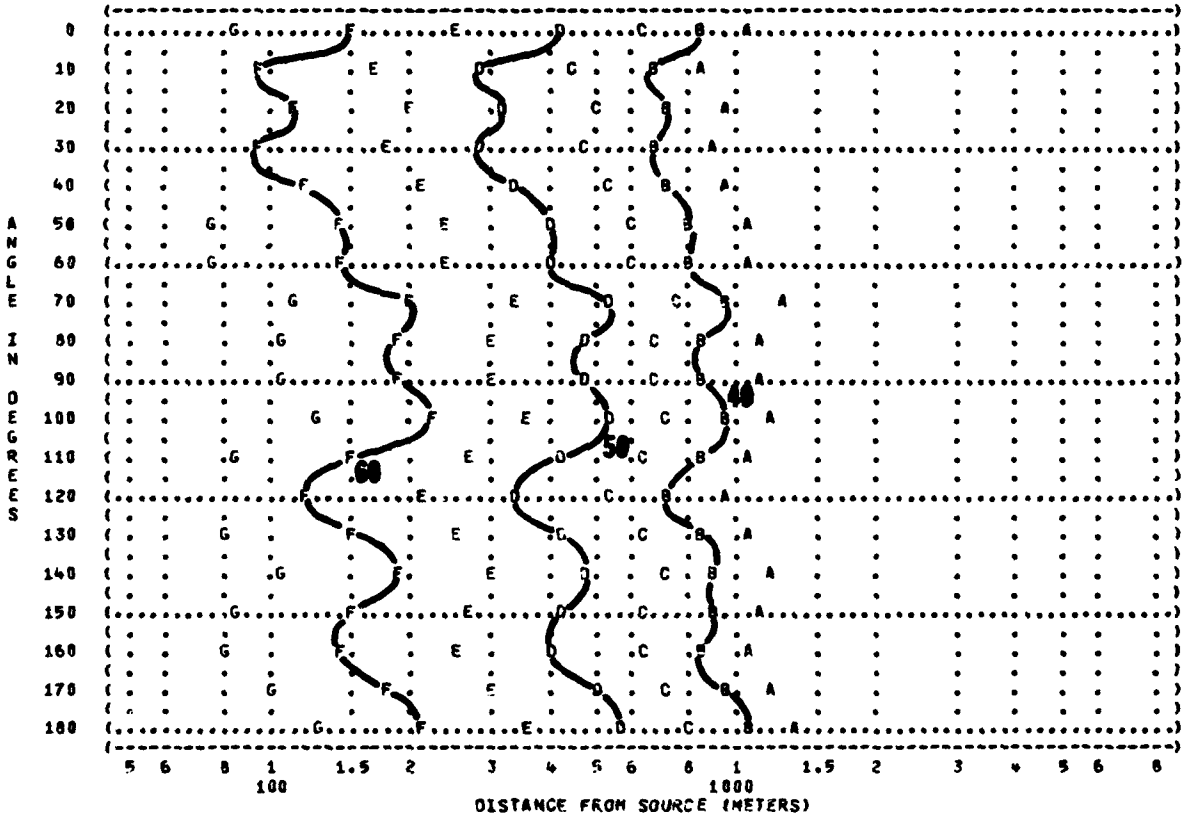


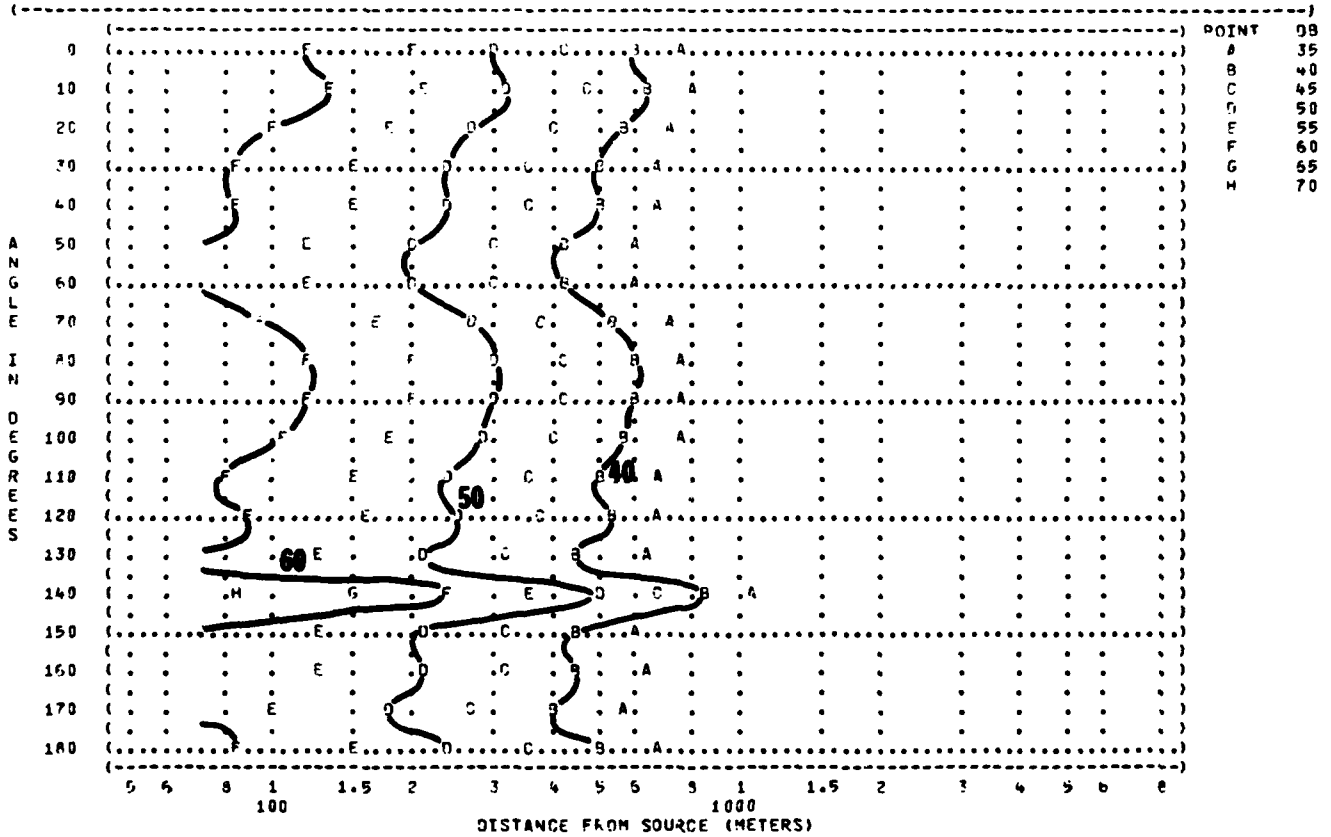
FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GC-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-709-001 RUN 02 26 OCT 81 PAGE 21



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-709-001 RUN 02 26 OCT 91 PAGE 22

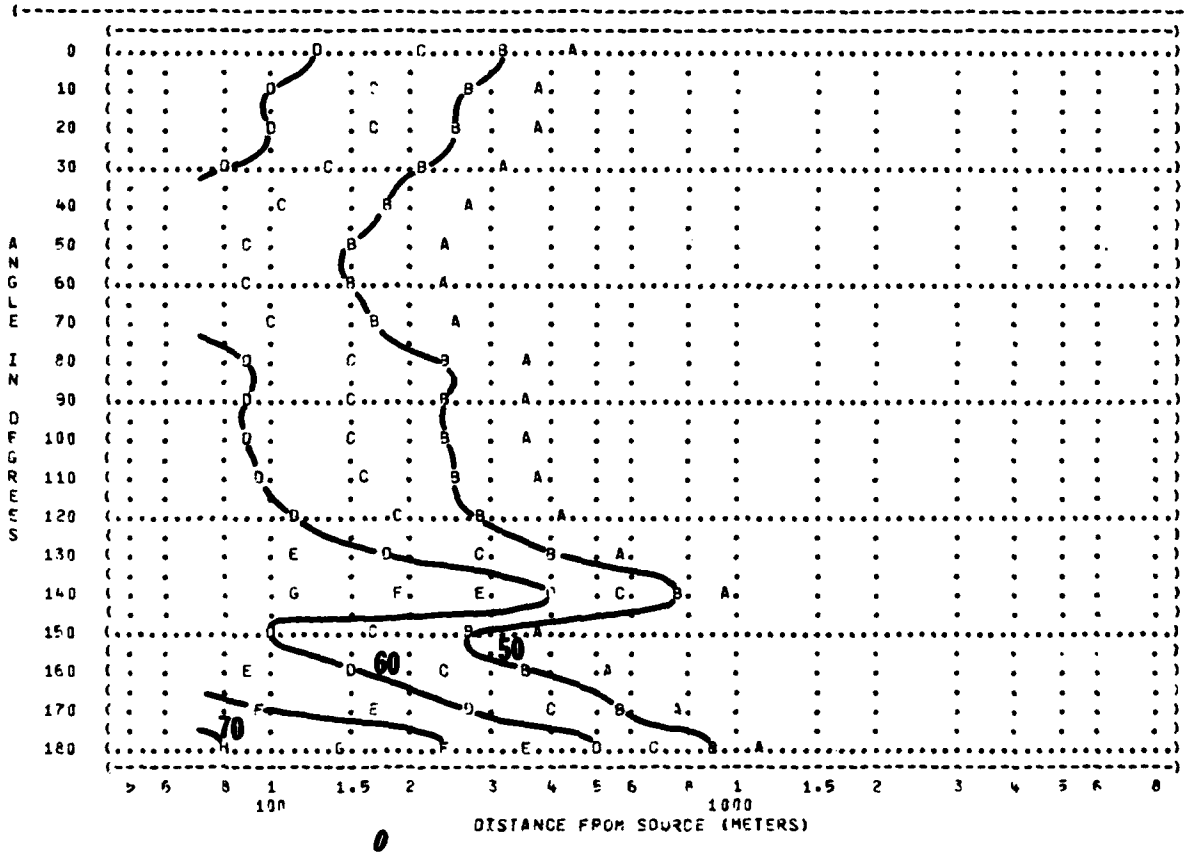


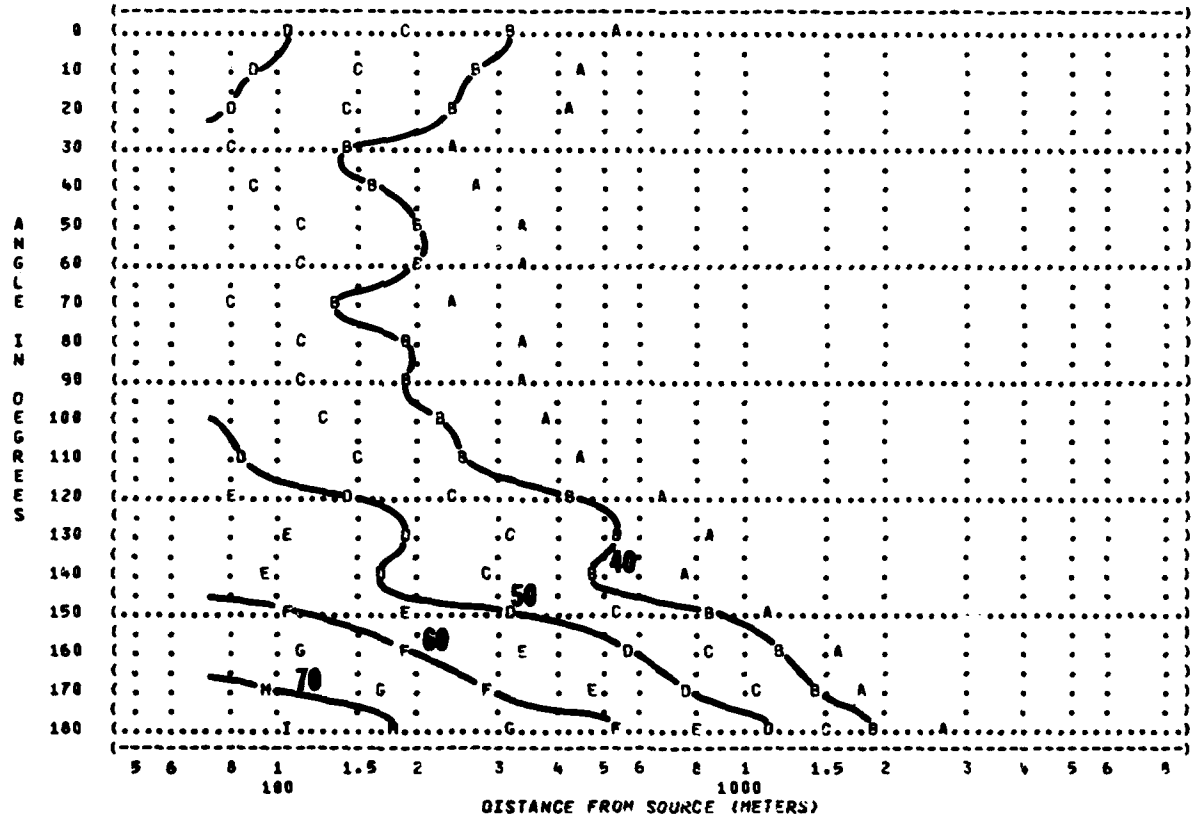
FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-709-001 RUN 02 26 OCT 81



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

FIGURE: 8.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAP PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-789-881
RUN 02
26 OCT 81
PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

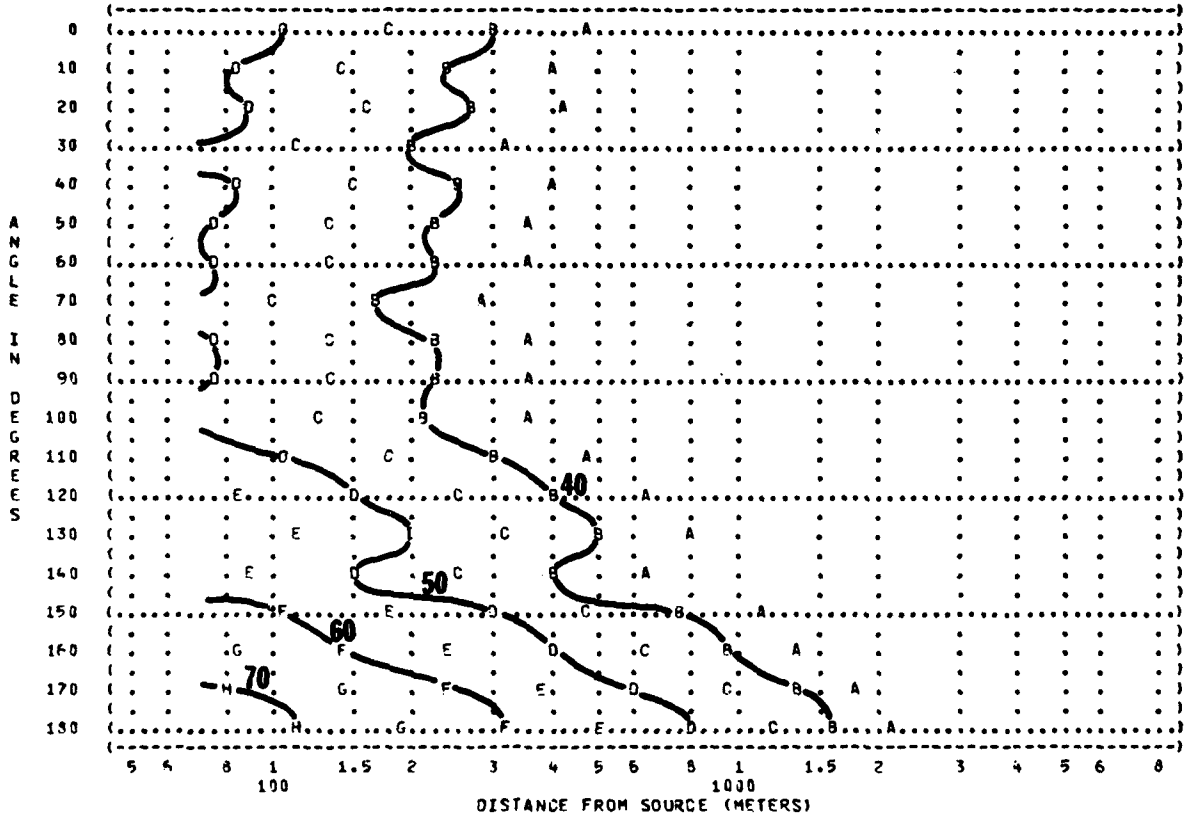


FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 02
26 OCT 81
PAGE 25

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

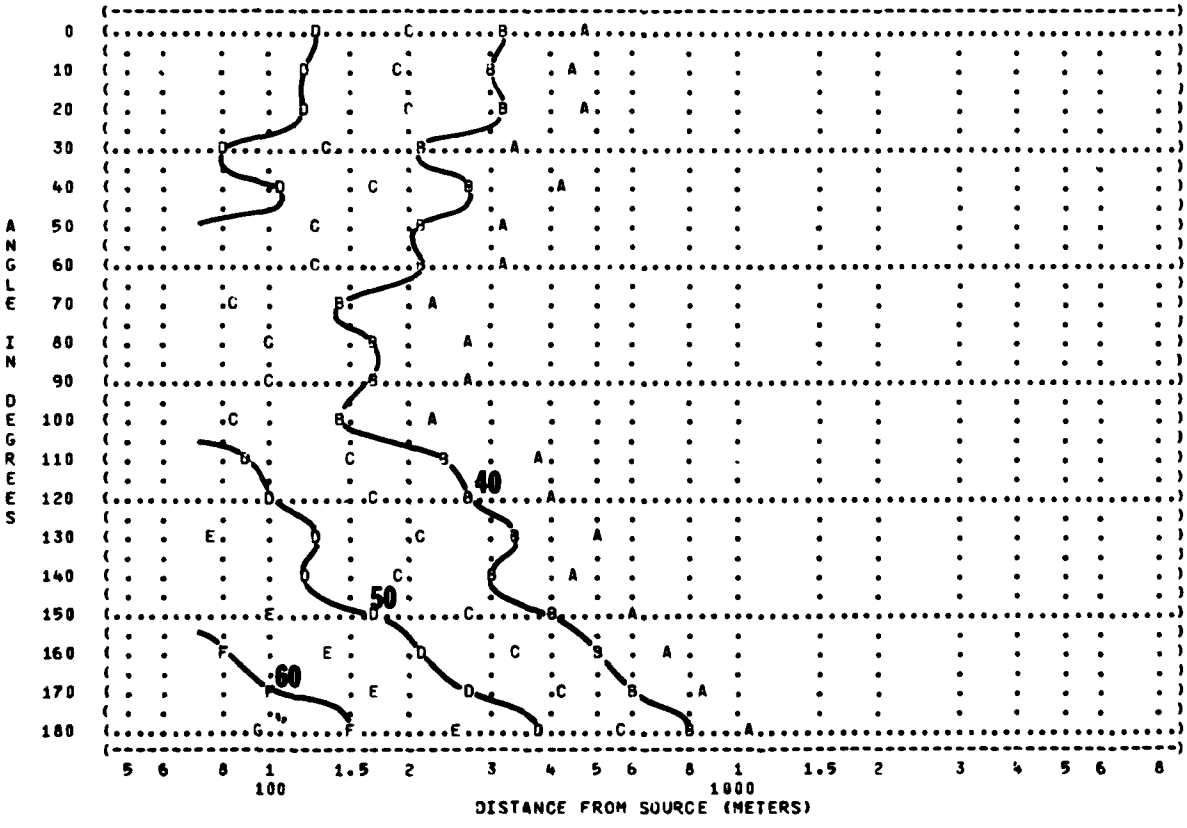


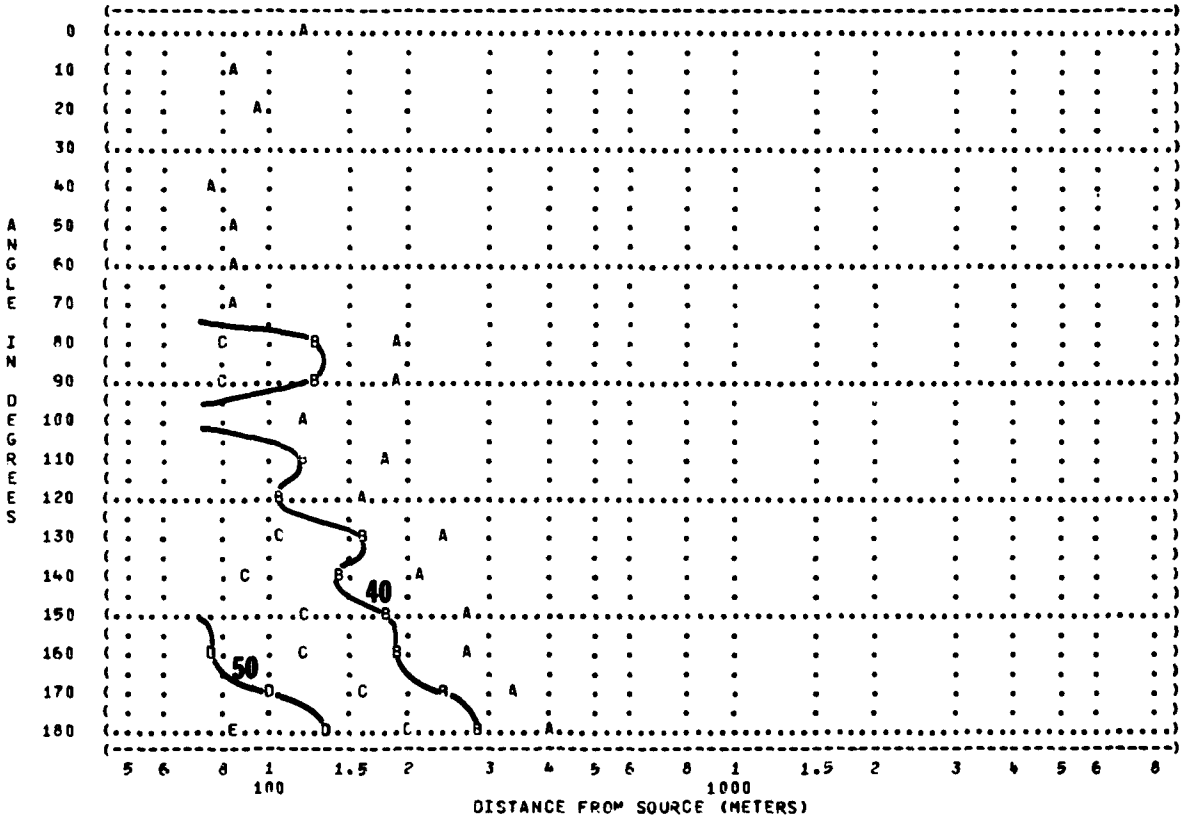
FIGURE 8.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-709-081 RUN 02 26 OCT 81



POINT	DB
A	35
B	40
C	45
D	50
E	55

FIGURE: 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (Da) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 02
26 OCT 81
PAGE 27

POINT	DB
A	35
B	40
C	45

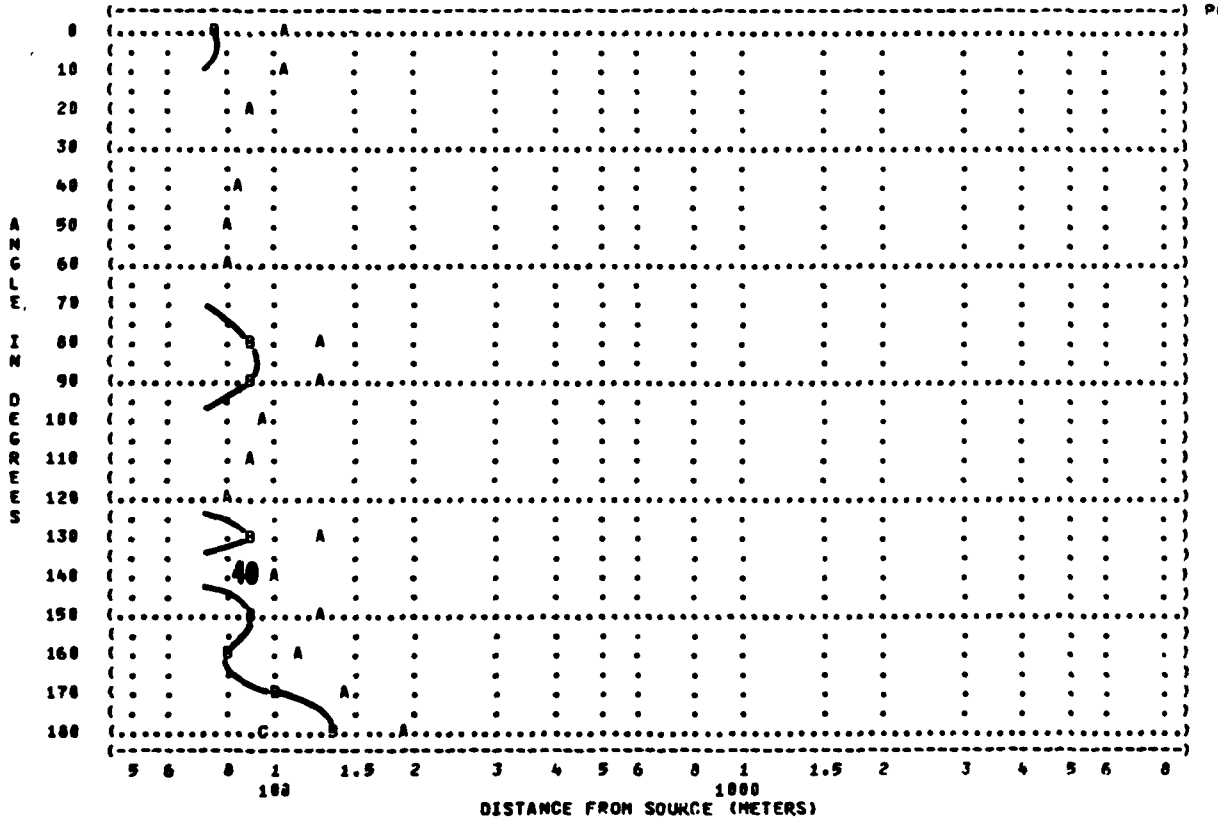


FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-881
RUN 03
26 OCT 81
PAGE 18

POINT	DB
A	40
B	45
C	50
D	55
E	60
F	65
G	70
H	75
I	80
J	85

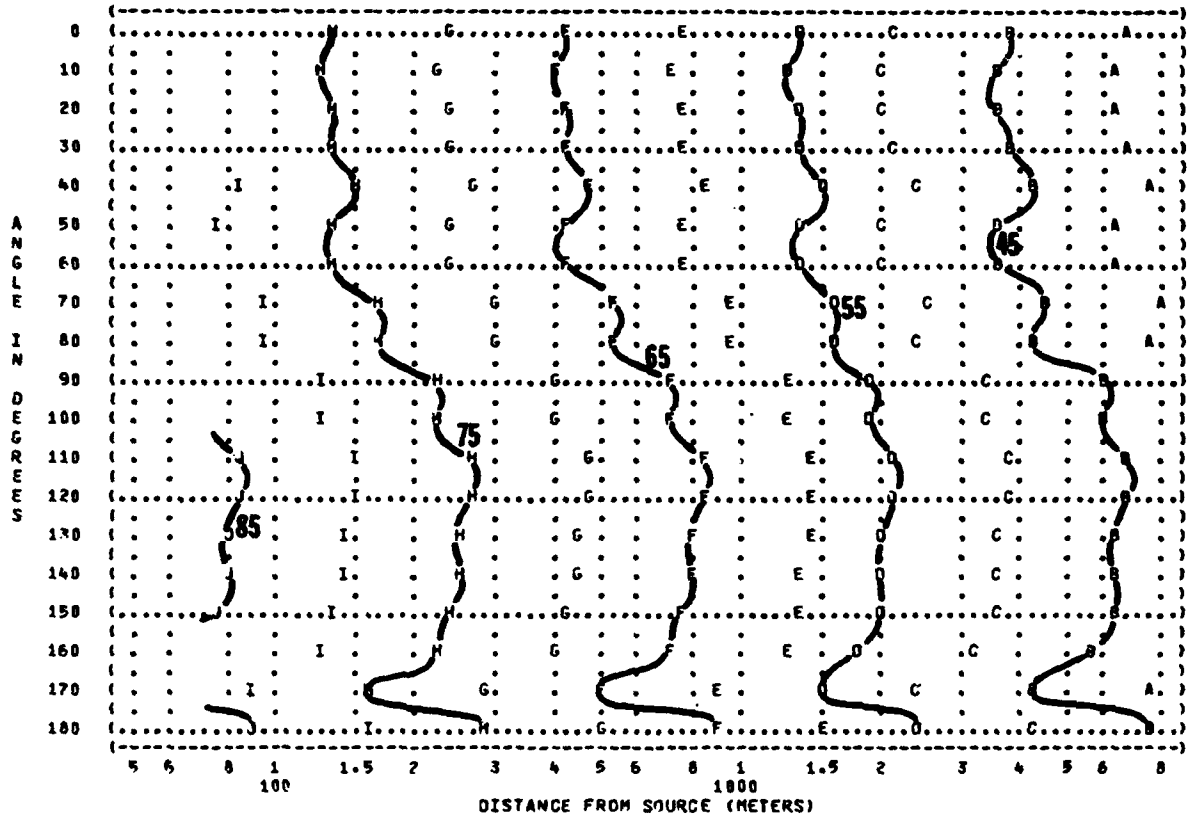


FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (OB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 03
26 OCT 81
PAGE 19

POINT	OB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

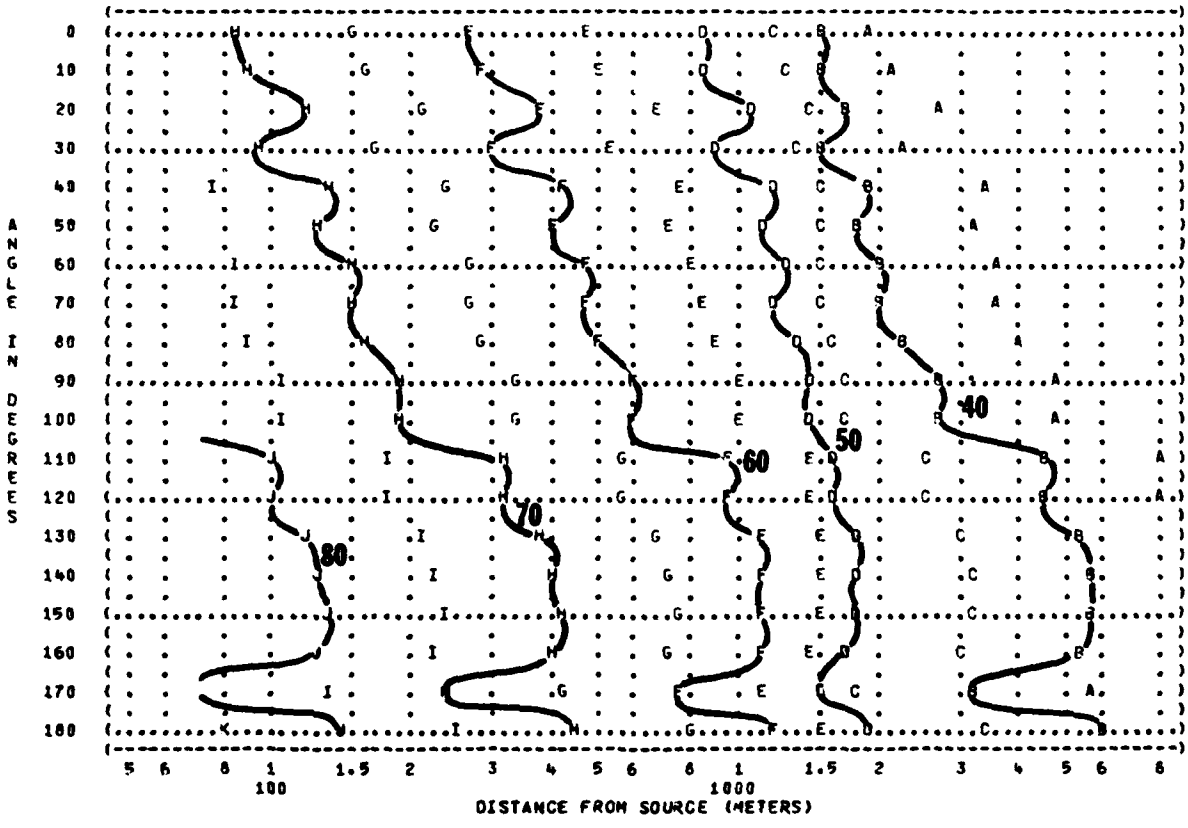


FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-709-001 RUN 03 26 OCT 81 PAGE 29

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

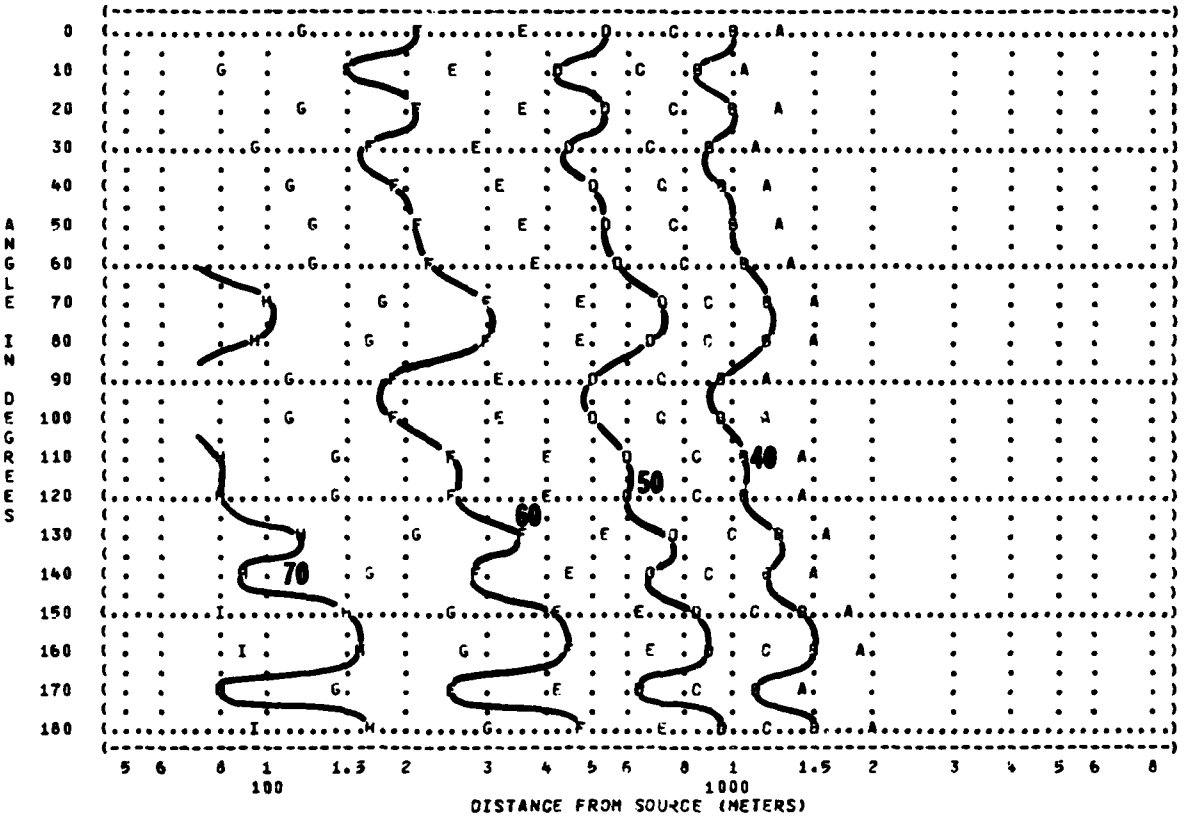


FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 03
26 OCT 81
PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

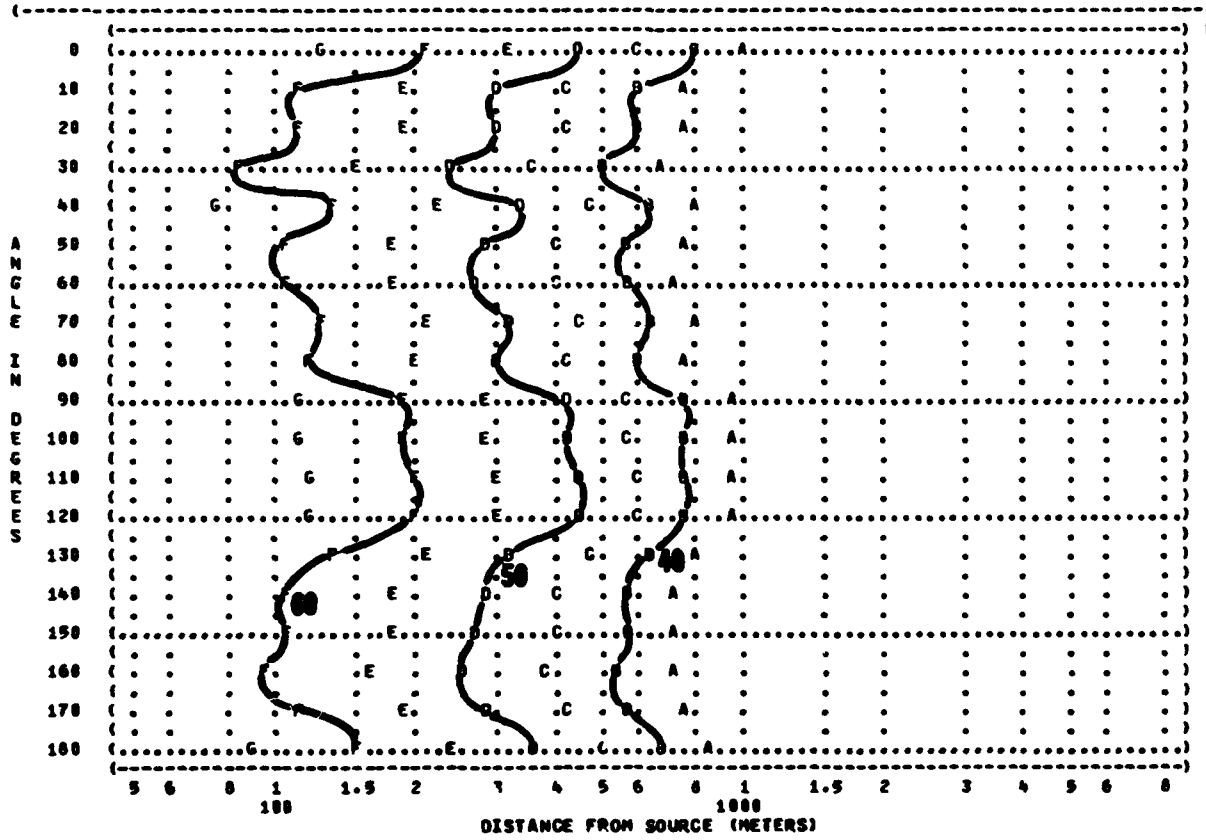


FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-789-081 RUN 03 26 OCT 81 PAGE 22

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

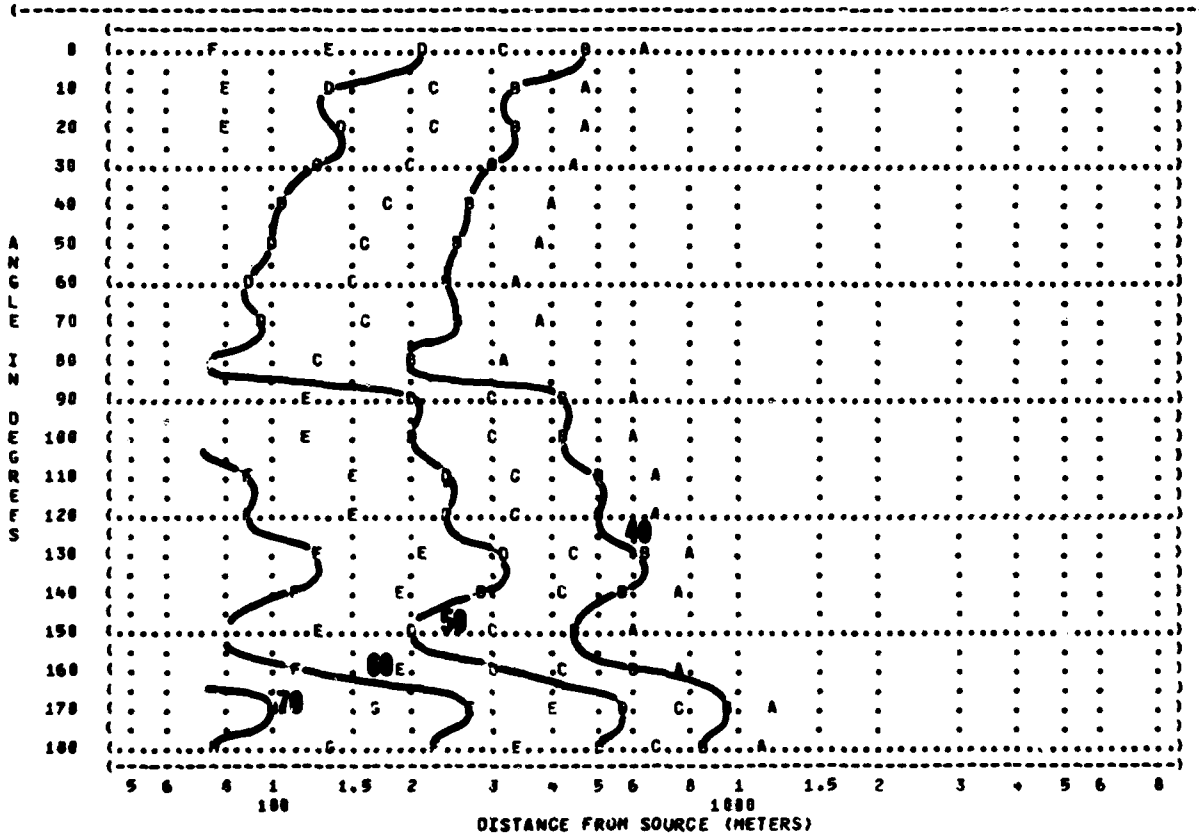


FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-789-001
RUN 83
26 OCT 81
PAGE 23

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .768 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

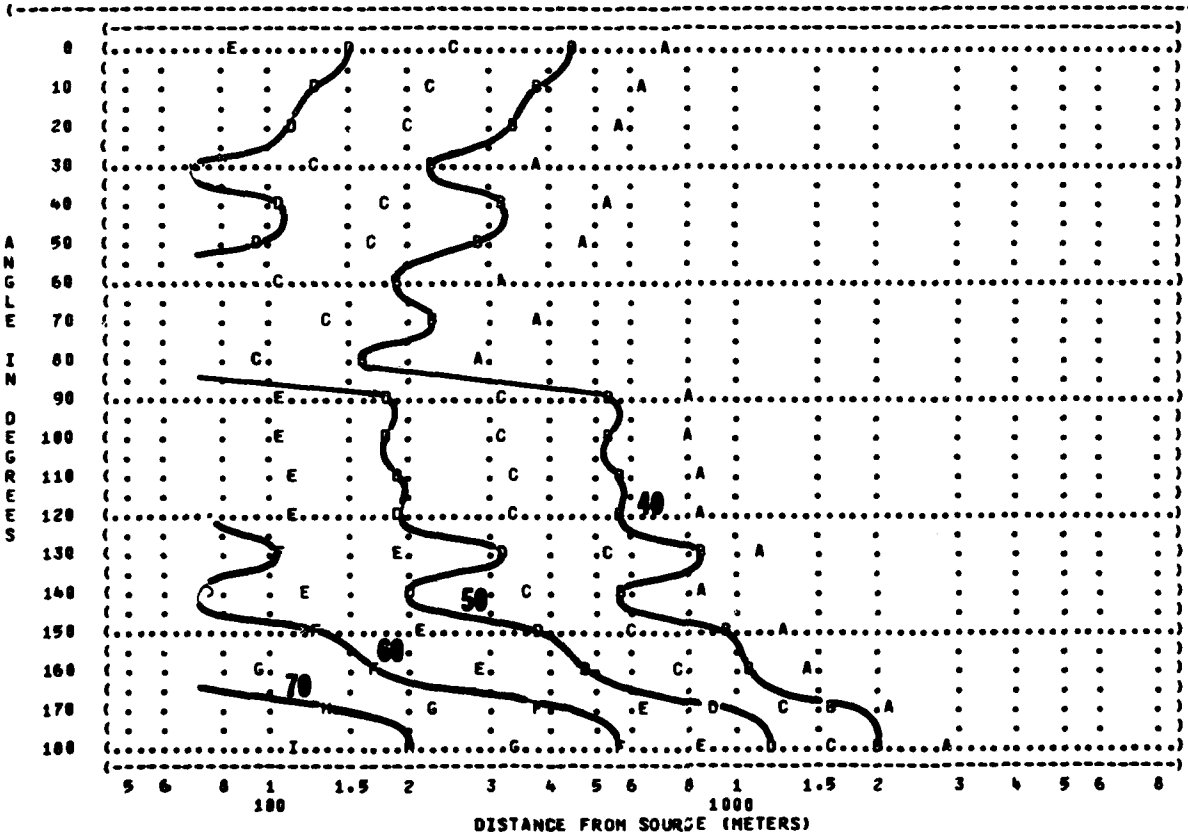


FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-789-001 RUN 03 26 OCT 81 PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

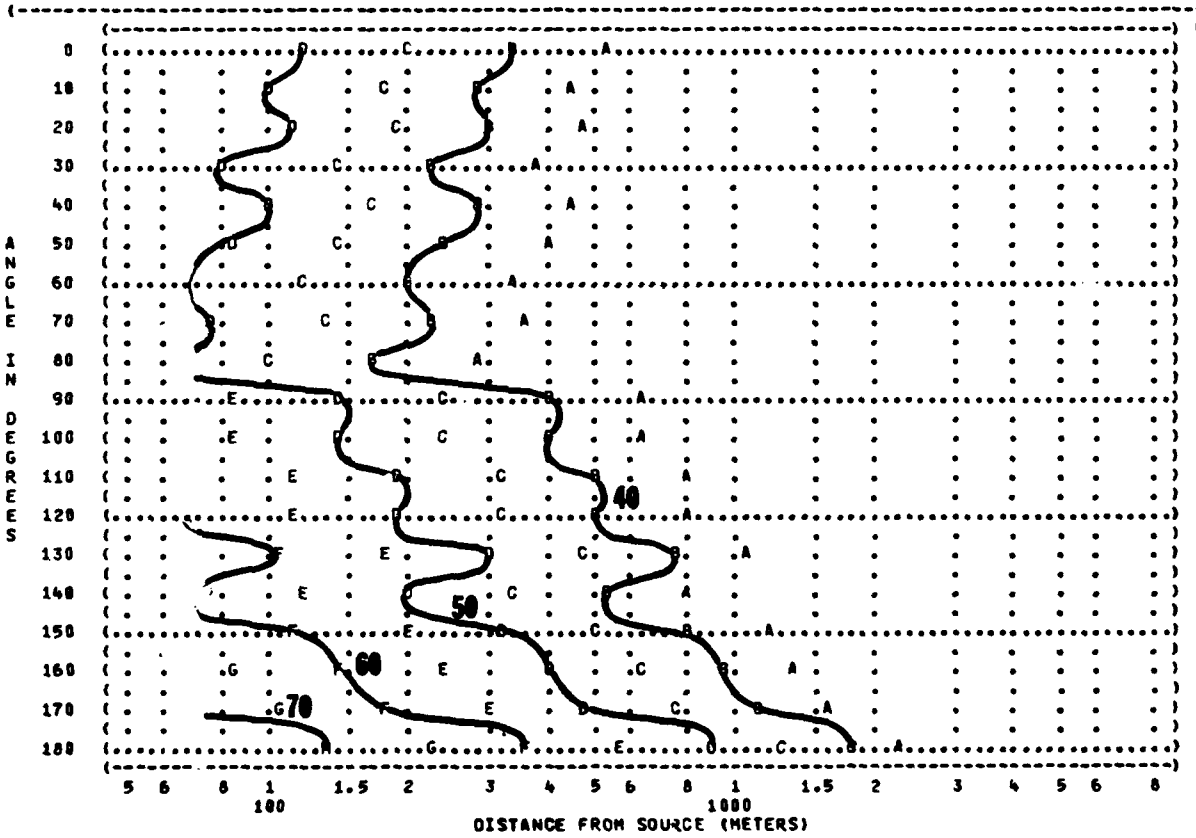


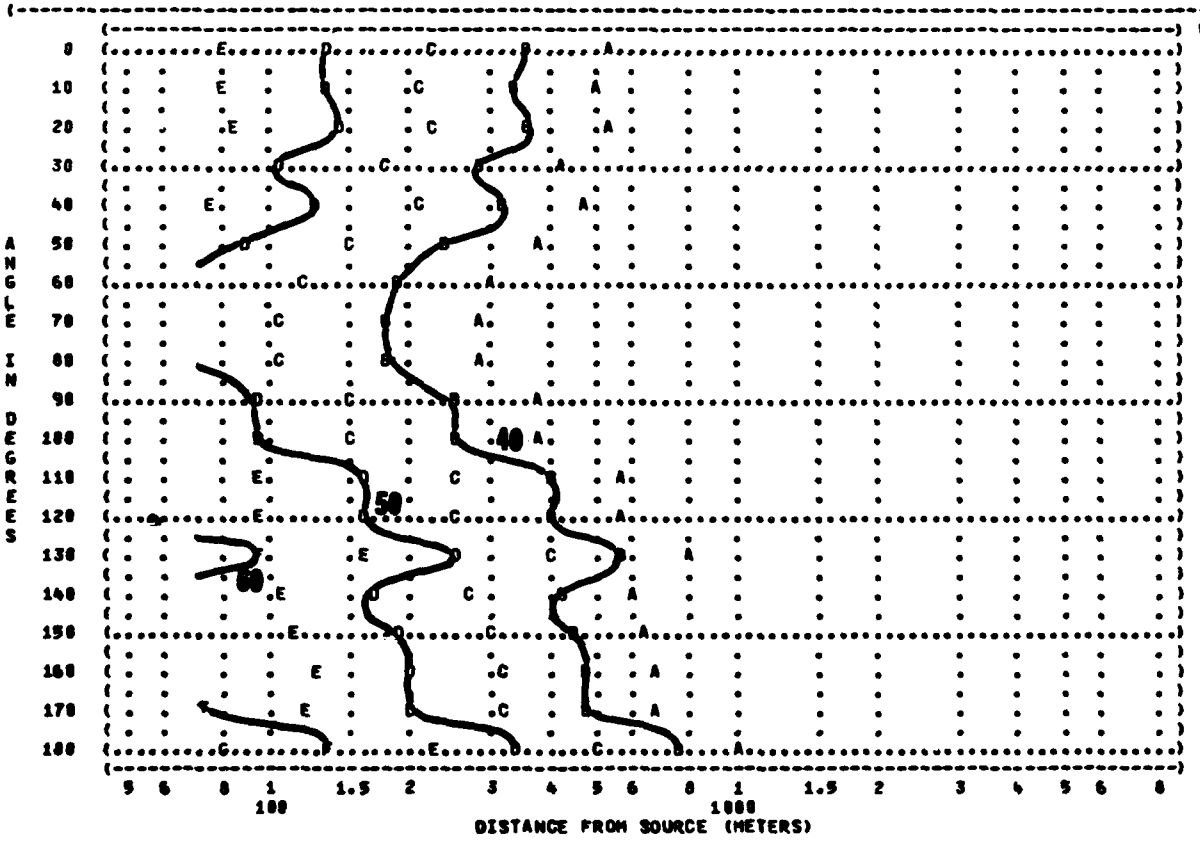
FIGURE 8.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-789-001 RUN 03 26 OCT 81 PAGE 25



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

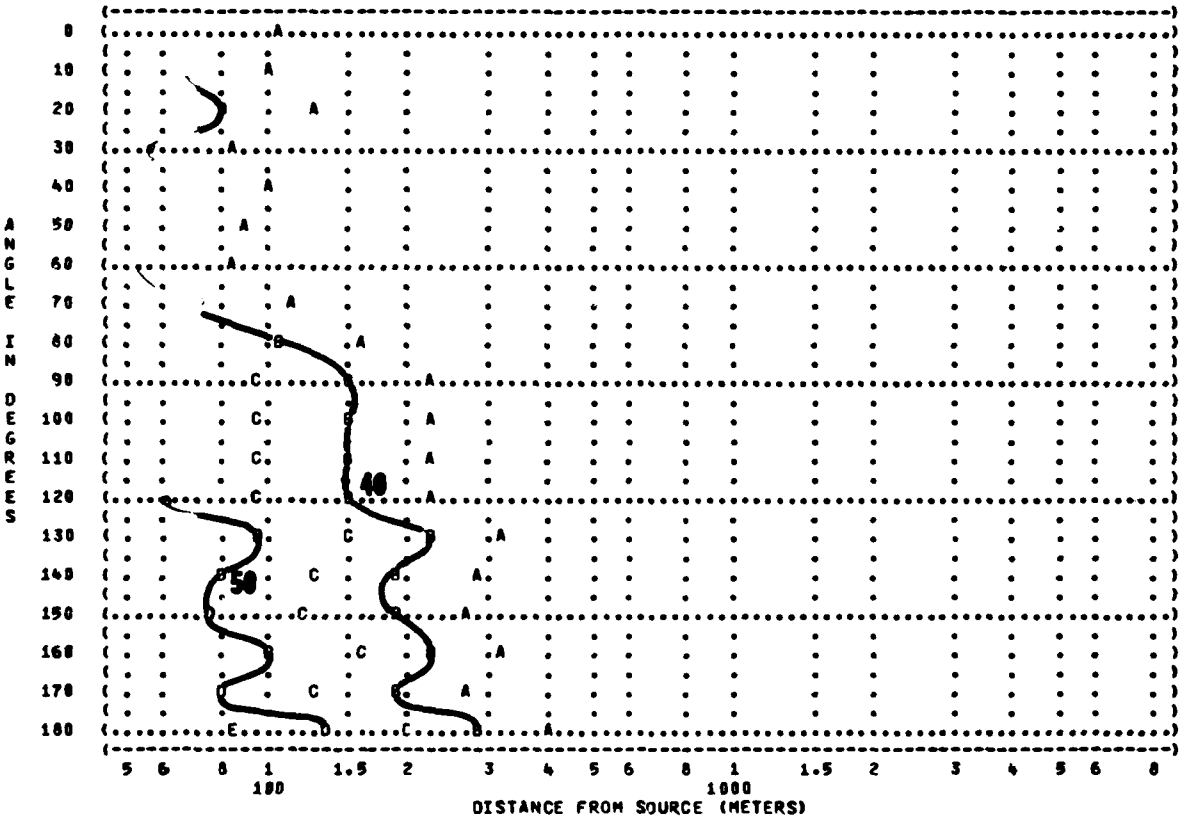
FIGURE 8.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
T-38 AIRCRAFT IN THE
TEXAS ASE HUSH HOUSE
J85-GE-5 ENGINE
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-709-001
RUN 03
26 OCT 81
PAGE 26



POINT	DB
A	35
B	40
C	45
D	50
E	55

FIGURE 88: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: T-38 AIRCRAFT IN THE TEXAS ASE HUSH HOUSE J85-GE-5 ENGINE FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C, BAR PRESS = .760 M HG, REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4, TEST BF-709-001, RUN 03, 26 OCT 81, PAGE 27

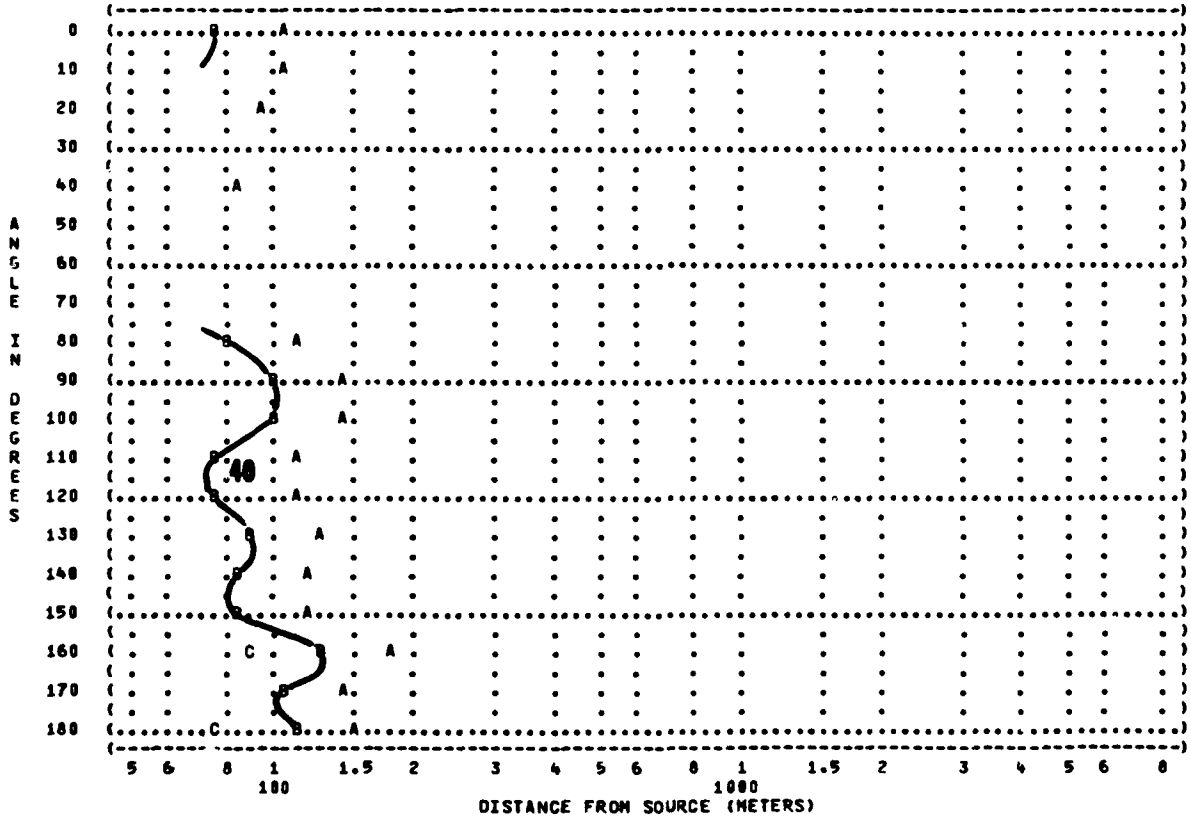


TABLE 9.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS TF41-A-1 ENGINE IN THE ASE-TEXAS INC. HUSH-HOUSE, GROUND RUNUP KELLY AFB TEXAS, TEST #BF-711-001 (Engine For The A-7 Aircraft)

Engine Operation	Single Engine	
85%	85	% RPM
	3401	LBS/HR FF
	5118	LBS THRUST
95%	95	% RPM
	7409	LBS/HR FF
	10992	LBS THRUST
Military Power	98.5	% RPM
	8903	LBS/HR FF
	12854	LBS THRUST
Meteorology		
Temperature	28	C
Bar Pressure	.747	M Hg
Rel Humidity	79	%
Wind - Speed	Calm	
- Direction		

TABLE: 9.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-001
RUN 01
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 28 C
BAR PRESS = .747 M HG
REL HUMID = 79 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	80	77	77	77	76	76	76	77	79	78	77	78	79	78	78	78	78	78	78
16	77	75	74	76	75	75	78	80	77	79	81	79	80	80	80	80	80	80	80
20	73	72	72	75	73	76	77	78	78	79	79	78	78	79	79	79	79	79	79
25	63	62	64	64	68	70	70	71	73	72	74	74	74	74	74	74	74	74	74
31.5	63	56	60	63	63	65	65	66	66	66	68	71	72	72	72	72	72	72	72
40	62	65	64	64	66	64	67	69	67	65	65	66	69	69	69	69	69	69	69
50	64	63	63	62	63	64	64	68	66	63	61	63	64	66	66	66	66	66	66
63	61	63	60	60	60	62	61	67	65	61	59	61	61	62	62	62	62	62	62
80	61	62	62	59	59	59	56	64	62	63	62	62	60	59	59	59	59	59	59
100	63	62	62	63	59	60	56	61	59	63	61	60	62	59	59	59	59	59	59
125	62	60	58	61	58	59	55	59	57	60	62	60	62	56	56	58	58	58	58
160	56	56	54	54	56	52	53	54	51	55	54	52	54	52	52	52	52	52	52
200	52	51	51	49	47	45	44	45	45	51	45	47	48	49	49	49	49	49	49
250	51	52	53	50	46	44	43	43	44	47	44	45	47	47	47	47	47	47	47
315	49	48	49	47	42	40	41	41	41	40	38	41	43	40	40	40	40	40	40
400	46	44	43	43	39	37	37	38	39	37	35	40	35	36	36	36	36	36	36
500	45	45	45	45	41	42	40	41	38	34	33	38	37	34	34	34	34	34	34
630	46	44	42	44	41	43	39	41	39	35	34	38	35	34	34	34	34	34	34
800	43	42	41	42	40	40	40	39	37	35	35	37	35	33	33	33	33	33	33
1000	43	43	42	42	41	40	38	39	36	34	34	42	36	33	33	33	33	33	33
1250	48	48	44	44	44	43	41	41	37	37	34	38	35	34	34	34	34	34	34
1600	49	50	46	47	46	44	43	40	39	37	33	37	35	34	34	34	34	34	34
2000	45	46	44	44	43	41	39	36	37	35	33	38	35	34	34	34	34	34	34
2500	47	47	45	46	46	45	44	42	42	42	36	42	39	34	34	34	34	34	34
3150	40	38	37	38	37	36	35	36	38	35	30	35	32	34	34	34	34	34	34
4000	35	34	33	32	31	30	30	32	35	32	27	31	24	30	30	30	30	30	30
5000	43	45	43	41	39	35	36	37	40	37	29	30	29	30	30	30	30	30	30
6300	41	44	42	40	39	35	36	36	40	36	27	28	25	29	29	29	29	29	29
8000	42	44	39	38	39	35	39	39	42	36	27	28	23	28	28	28	28	28	28
10000	41	42	37	36	36	34	41	35	40	33	25	25	25	25	25	25	25	25	25
OVERALL	83	81	80	81	80	82	82	84	84	84	85	84	85	85	85	85	85	85	85

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: MEASURED SOUND PRESSURE LEVEL (DB)
92 1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-001
RUN 02
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
95% RPM (MILITARY PWR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 28 C
BAR PRESS = .747 M HG
REL HUMID = 79 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	85	83	83	84	84	84	79	85	87	86	85	86	87	86	87	87	87	85	84
16	84	84	84	82	82	83	84	84	88	88	89	89	89	91	91	91	89	87	87
20	80	81	82	83	84	85	86	85	87	89	86	89	90	89	89	90	89	86	88
25	69	71	72	75	77	79	80	81	83	83	85	84	87	87	88	88	89	86	87
31.5	70	67	68	71	73	73	73	75	76	77	79	82	84	83	85	87	89	85	85
40	69	72	71	73	74	74	73	75	73	73	73	76	79	81	83	85	87	83	84
50	67	68	68	67	70	68	70	74	74	71	70	70	74	77	80	82	83	81	82
63	61	62	62	63	64	64	63	66	67	67	68	70	74	71	73	75	78	75	76
80	65	61	60	62	61	60	60	63	64	67	66	65	69	68	69	70	72	69	69
100	68	63	64	65	61	60	59	63	61	64	65	65	65	64	65	67	69	64	63
125	66	61	62	63	60	59	57	60	58	61	63	61	63	62	63	64	64	61	61
160	61	59	59	60	57	56	57	56	54	57	59	59	61	62	62	61	62	60	57
200	56	55	56	54	53	51	54	52	51	52	57	56	60	61	60	58	58	59	55
250	56	54	56	55	55	50	58	50	49	51	54	54	59	61	61	61	58	55	54
315	53	53	52	51	55	46	58	48	44	45	49	49	51	54	55	56	55	53	53
400	56	52	53	51	55	47	57	47	43	43	46	45	47	50	52	55	55	50	53
500	63	60	59	58	59	57	61	54	49	45	45	45	47	49	53	57	55	50	52
630	59	57	58	56	58	57	59	53	50	48	45	46	47	48	52	56	55	51	52
800	56	53	52	53	58	54	58	51	49	49	47	47	48	47	51	54	54	50	50
1000	55	54	52	53	55	53	57	49	46	48	49	49	50	48	51	54	54	50	50
1250	58	57	55	55	56	54	57	51	47	48	47	50	50	49	52	56	55	50	48
1600	59	57	56	56	56	54	56	49	46	48	47	49	50	50	51	52	51	48	48
2000	53	54	52	52	51	49	59	46	45	45	45	49	49	48	49	49	51	47	49
2500	45	49	46	49	55	45	53	42	42	43	43	45	48	44	46	48	48	45	44
3150	48	46	45	46	52	44	57	46	49	47	42	44	43	42	45	48	48	45	47
4000	42	42	39	40	44	37	47	39	44	43	40	42	39	40	43	45	45	43	44
5000	46	46	45	43	43	38	43	39	45	43	40	41	39	40	42	44	45	43	41
6300	48	47	46	44	43	39	42	39	45	42	39	44	39	38	40	42	42	41	39
8000	47	45	42	42	41	38	42	41	44	42	38	48	37	38	41	44	43	41	38
10000	46	44	40	39	44	37	42	37	43	39	46	40	35	35	38	41	40	37	35
OVERALL	89	88	88	88	89	90	89	91	93	93	93	94	95	95	96	96	96	94	94

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 9.2

MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST AF-711-001
RUN 03
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
100 % RPM (MAX MIL PWR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 28 C
BAR PRESS = .747 M HG
REL HUMID = 79 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	87	86	82	86	86	84	87	87	87	88	90	91	88	89	88	90	91	87	89
16	85	86	86	83	85	84	88	89	88	90	88	90	90	88	91	94	91	88	87
20	83	80	84	84	85	87	87	89	89	89	89	91	91	92	90	93	93	92	90
25	73	72	75	77	80	79	82	84	85	85	86	89	90	89	89	89	92	90	90
31.5	72	70	70	74	77	76	75	79	78	80	82	84	85	87	86	90	91	87	88
40	72	73	75	74	77	77	77	77	75	76	78	80	83	84	86	89	89	86	88
50	70	66	71	70	71	73	73	75	74	75	74	75	79	81	82	85	85	83	86
63	65	64	63	64	64	66	66	69	69	70	72	74	77	76	73	76	80	78	79
80	65	62	62	62	63	61	62	66	67	69	69	68	73	73	71	70	72	71	72
100	69	64	63	65	62	62	61	64	63	66	67	67	69	69	68	65	66	64	62
125	67	63	63	63	60	61	59	62	60	63	64	64	65	67	66	62	64	62	58
160	63	60	59	60	54	58	57	56	56	58	60	60	63	65	63	59	62	59	56
200	58	54	56	56	52	52	52	51	50	54	55	58	61	64	63	57	60	58	56
250	58	55	58	55	52	50	51	50	49	52	52	55	61	62	64	62	62	55	56
315	60	58	58	54	50	47	48	47	46	47	47	51	53	54	56	56	62	52	53
400	66	62	61	62	58	56	55	53	47	49	46	50	49	52	57	54	52	50	51
500	67	64	63	64	61	62	58	59	53	52	49	48	49	52	56	54	53	52	50
630	67	62	62	62	62	64	58	59	55	55	50	49	50	52	55	55	53	52	51
800	63	58	58	59	59	61	57	56	53	54	52	50	51	51	57	55	49	52	51
1000	61	59	57	58	58	58	53	54	49	51	49	51	52	51	56	55	48	53	51
1250	65	64	60	60	61	59	56	56	51	53	50	53	53	52	58	59	46	53	50
1600	64	64	60	61	61	58	55	54	52	52	48	52	55	52	57	58	46	49	48
2000	57	59	56	57	55	52	51	50	48	48	47	51	52	49	54	50	44	48	48
2500	49	51	50	53	52	48	45	43	44	46	46	47	50	48	50	47	44	46	46
3150	45	46	44	45	44	42	42	43	47	46	42	46	46	44	49	47	51	46	46
4000	45	46	44	44	44	41	42	44	48	46	41	44	42	43	46	46	52	44	44
5000	47	49	48	48	44	39	39	41	47	45	40	42	42	43	45	48	48	44	43
6300	46	48	44	44	43	39	41	40	46	43	38	40	41	40	43	44	44	42	41
8000	47	49	43	44	44	40	42	41	47	42	37	38	39	39	44	44	43	41	41
10000	45	46	40	41	45	36	39	39	44	39	39	36	36	36	42	42	41	38	38
OVERALL	91	90	89	90	91	91	93	94	94	95	95	97	97	97	97	98	99	97	97

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

FIGURE: NORMALIZED FARFIELD NOISE LEVELS

9.1

DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-001
RUN 01
26 OCT 81
PAGE 6

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(A-7 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

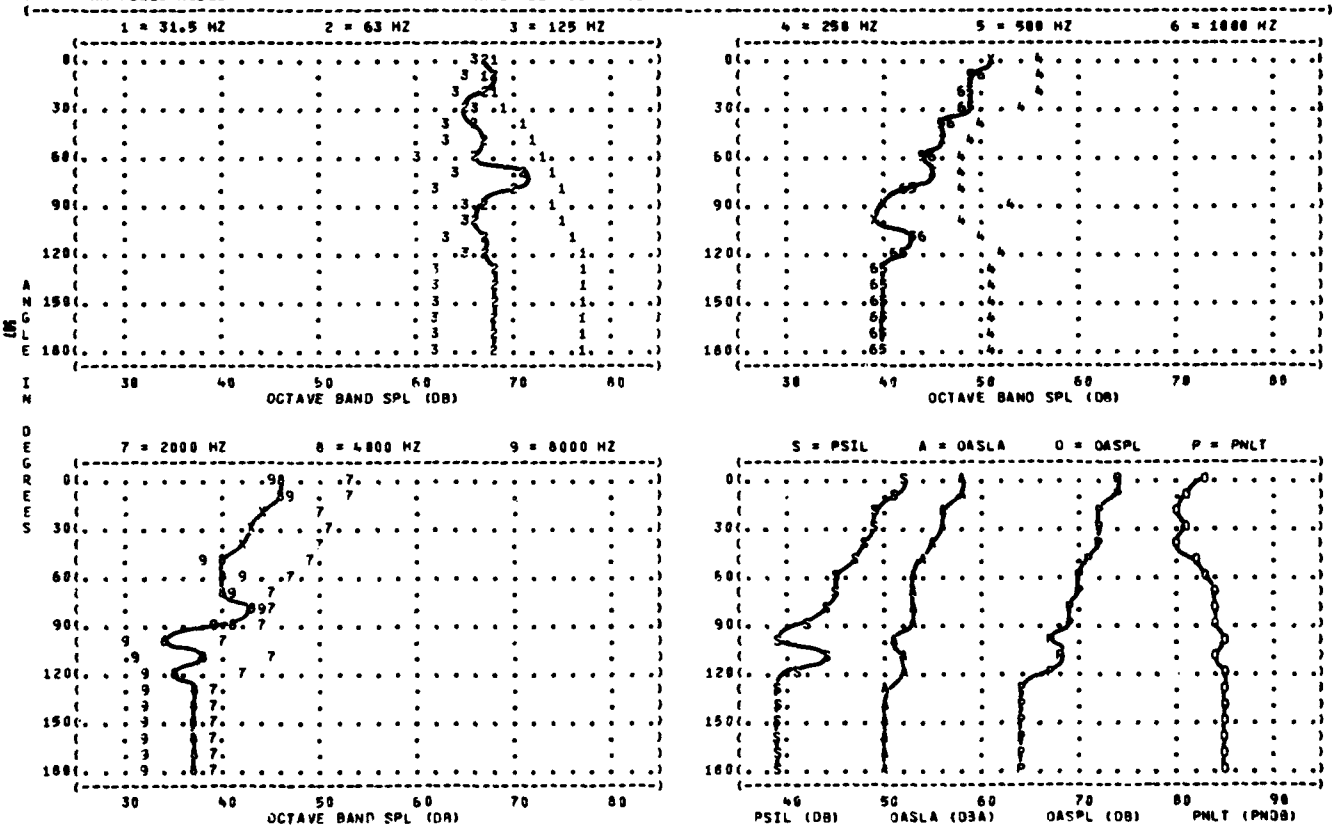


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

9.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
95% RPM (MILITARY PWR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-881
RUN 82
26 OCT 81
PAGE 6

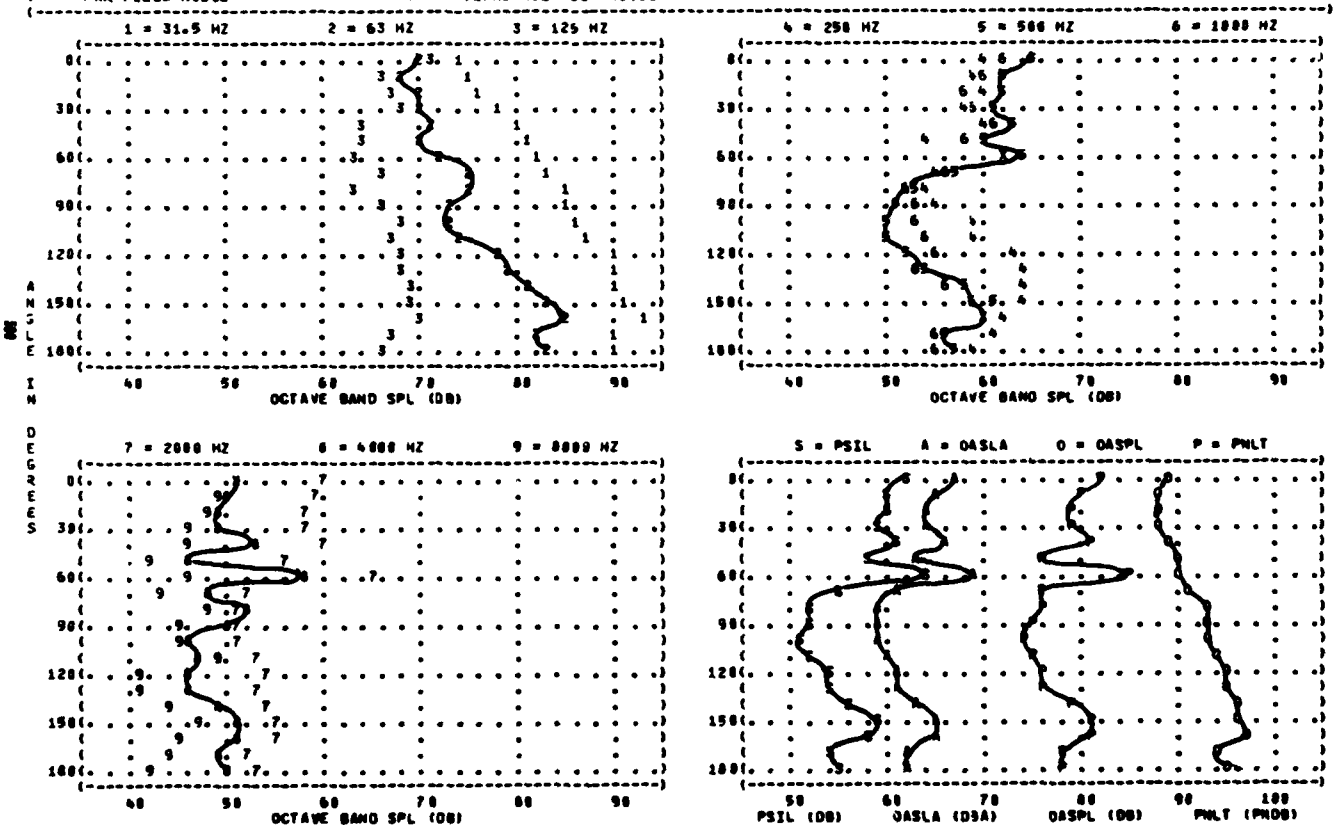


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

9.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:	IDENTIFICATION:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE	100 % RPM (MAX MIL PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %	OMEGA 1.4 TEST DF-711-001 RUN 03 26 OCT 81 PAGE 6

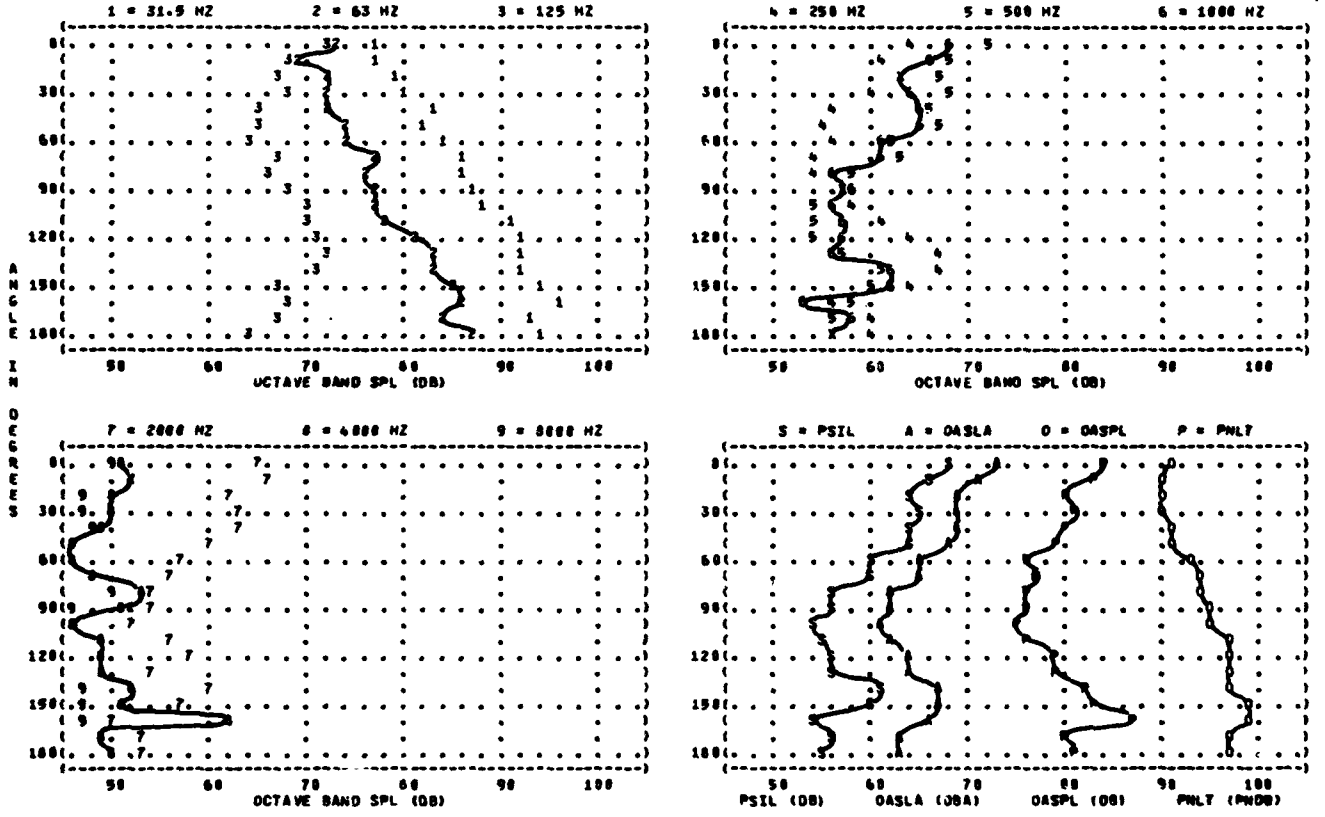


FIGURE: 9.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-001
RUN 01
26 OCT 81
PAGE 13

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

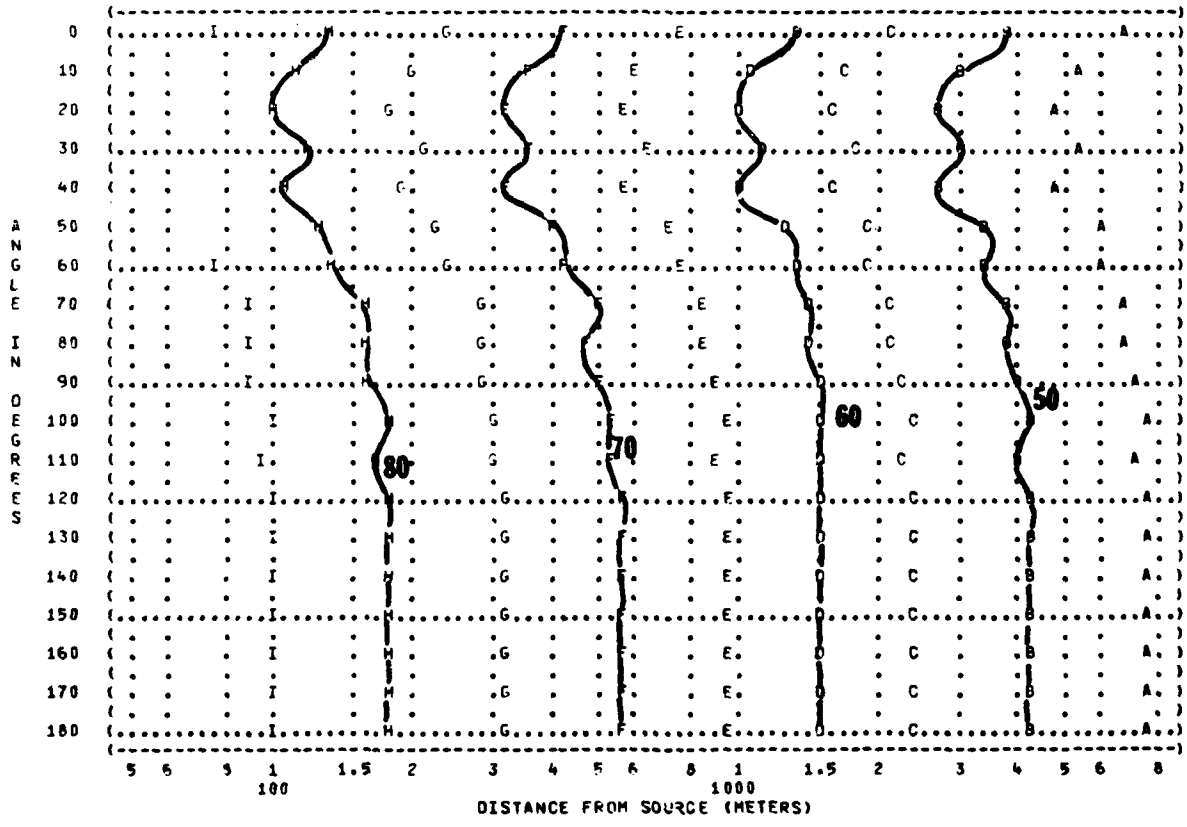


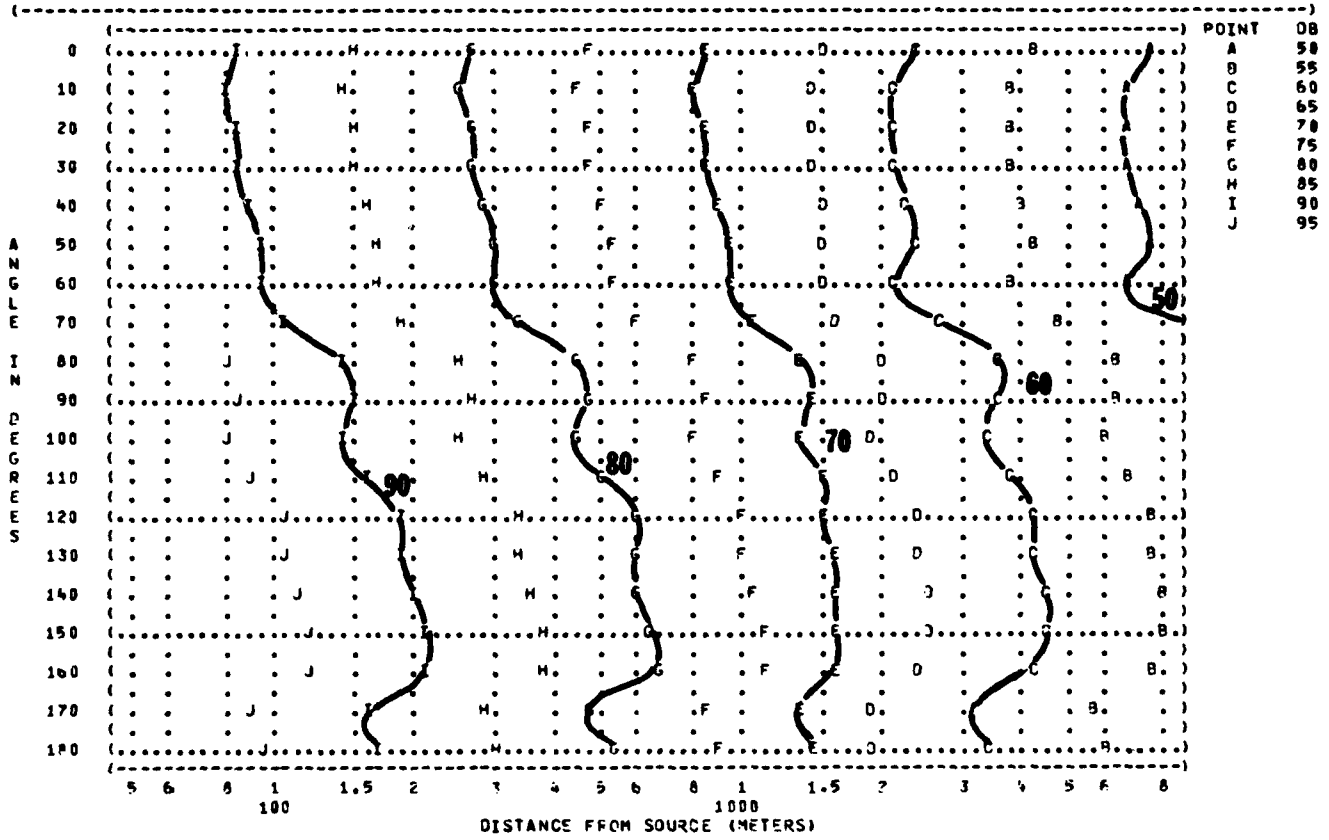
FIGURE: 9.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
95% RPM (MILITARY PWR) SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-001
RUN 02
26 OCT 81
PAGE 13



POINT	DB
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95

FIGURE: 9.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-081
RUN 03
26 OCT 81
PAGE 13

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
100 % RPM (MAX MIL PWR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95
K	100

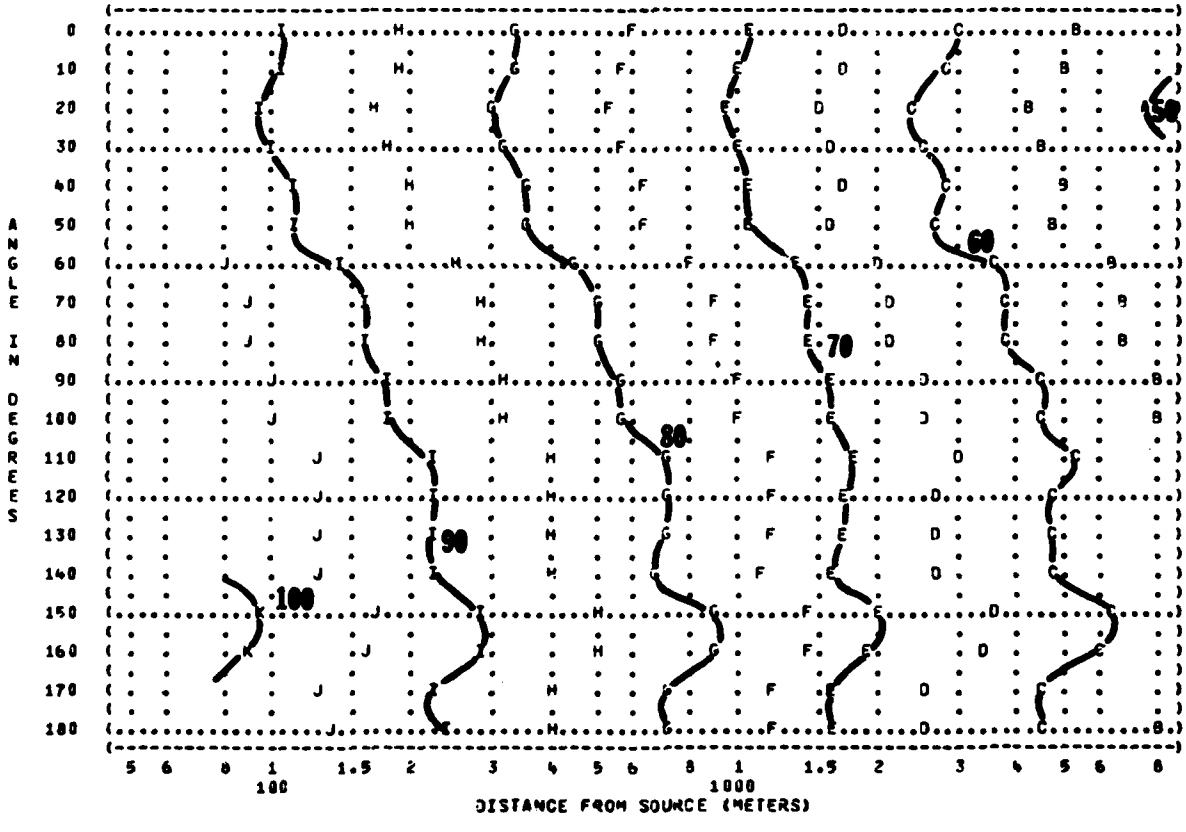


FIGURE 9.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (EBC)

IDENTIFICATION:
OMEGA 1.4
TEST AF-711-001
RUN 01
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

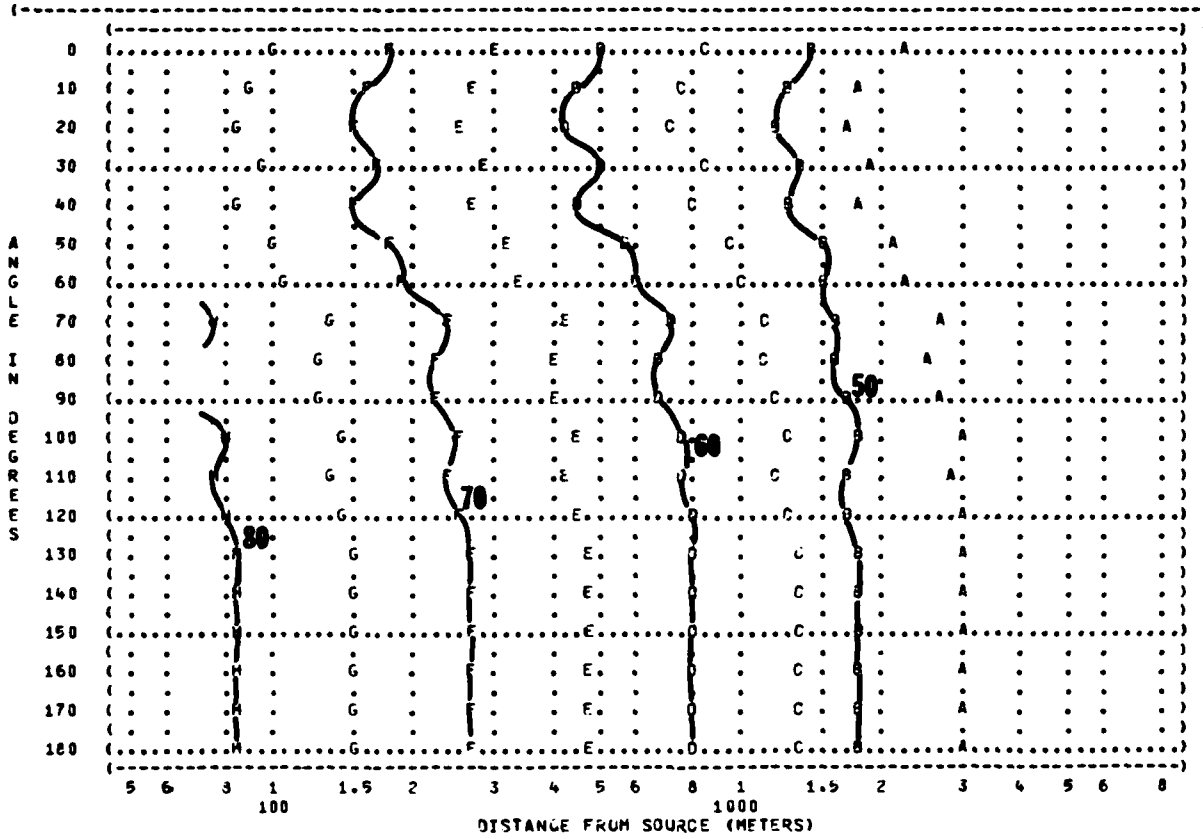


FIGURE 9.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST AF-711-001
RUN 02
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION:
95% RPM (MILITARY PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90

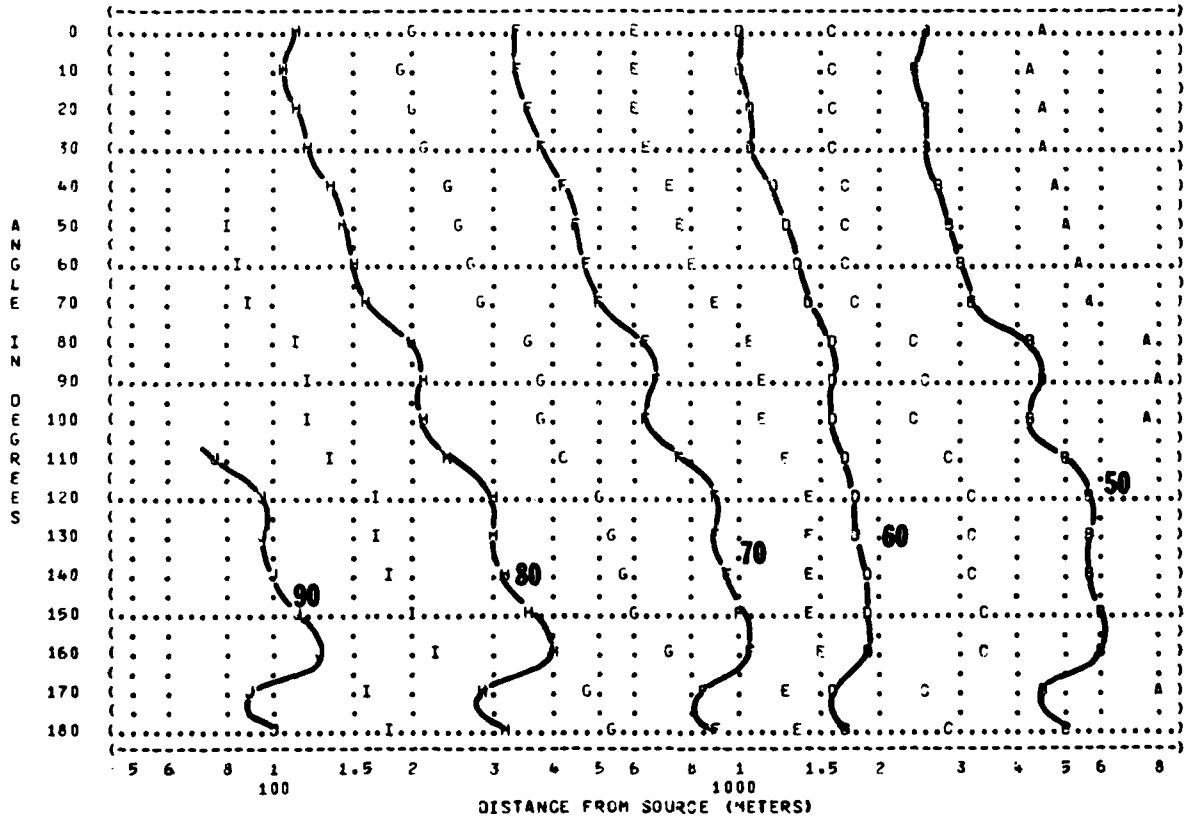


FIGURE 9.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST AF-711-001
RUN 03
26 OCT 91
PAGE 14

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
100 % RPM (MAX MIL PWR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95

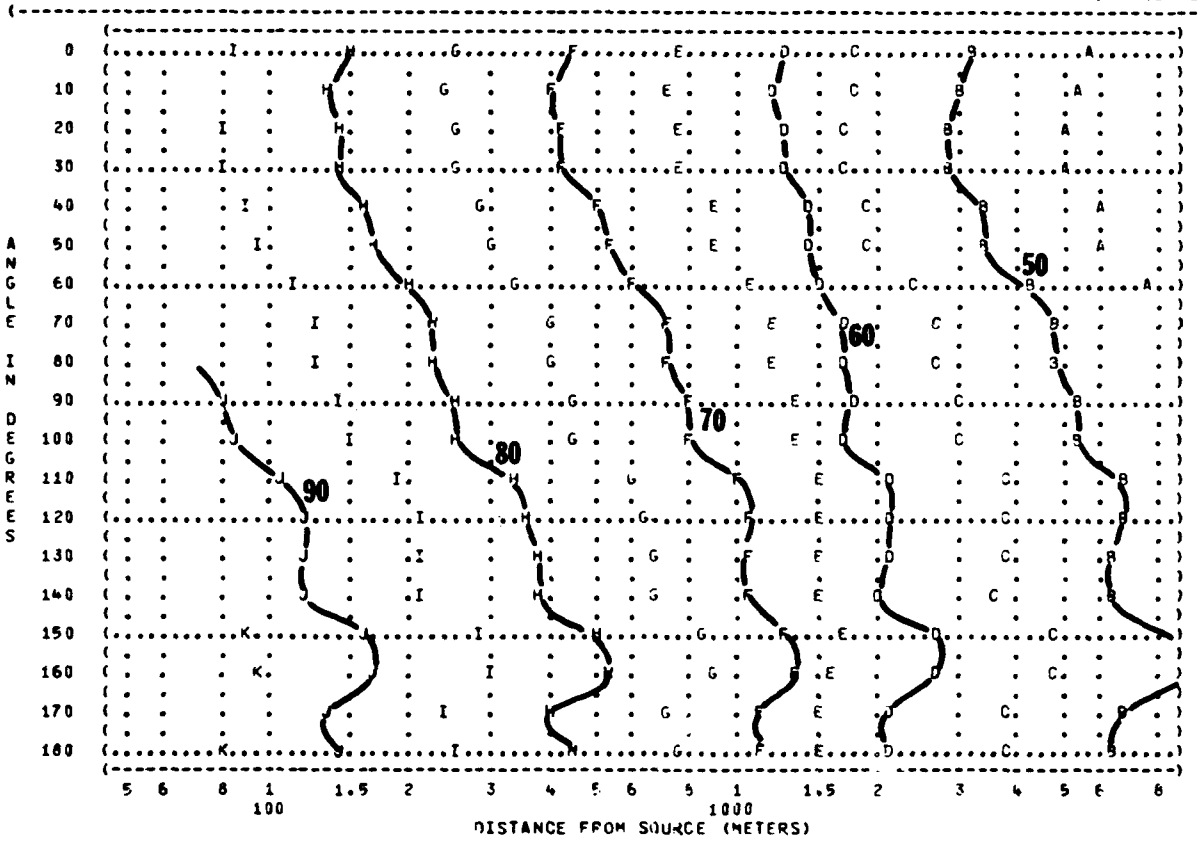


FIGURE 9.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (OBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-881
RUN 01
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 78 %

POINT	OBA
A	45
B	50
C	55
D	60

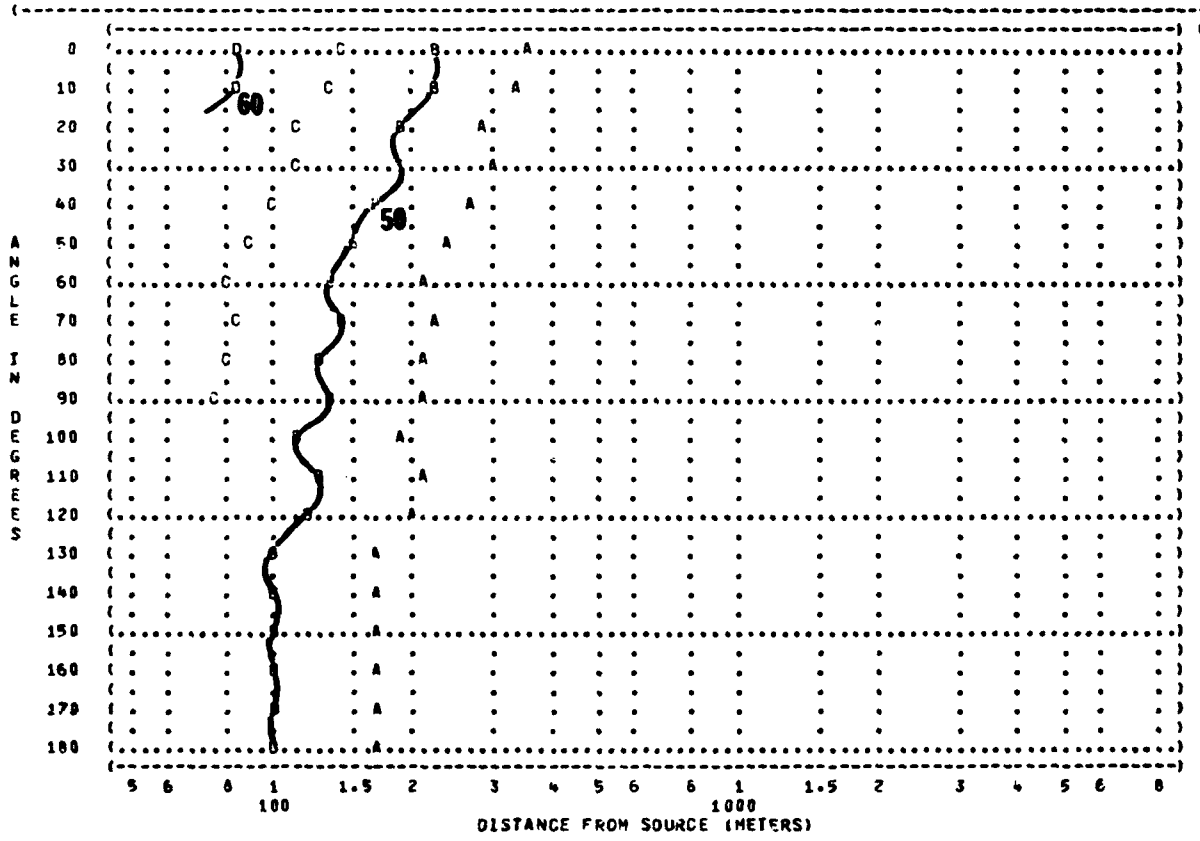


FIGURE: 9.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-711-001
RUN 02
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
95% RPM (MILITARY PWR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70

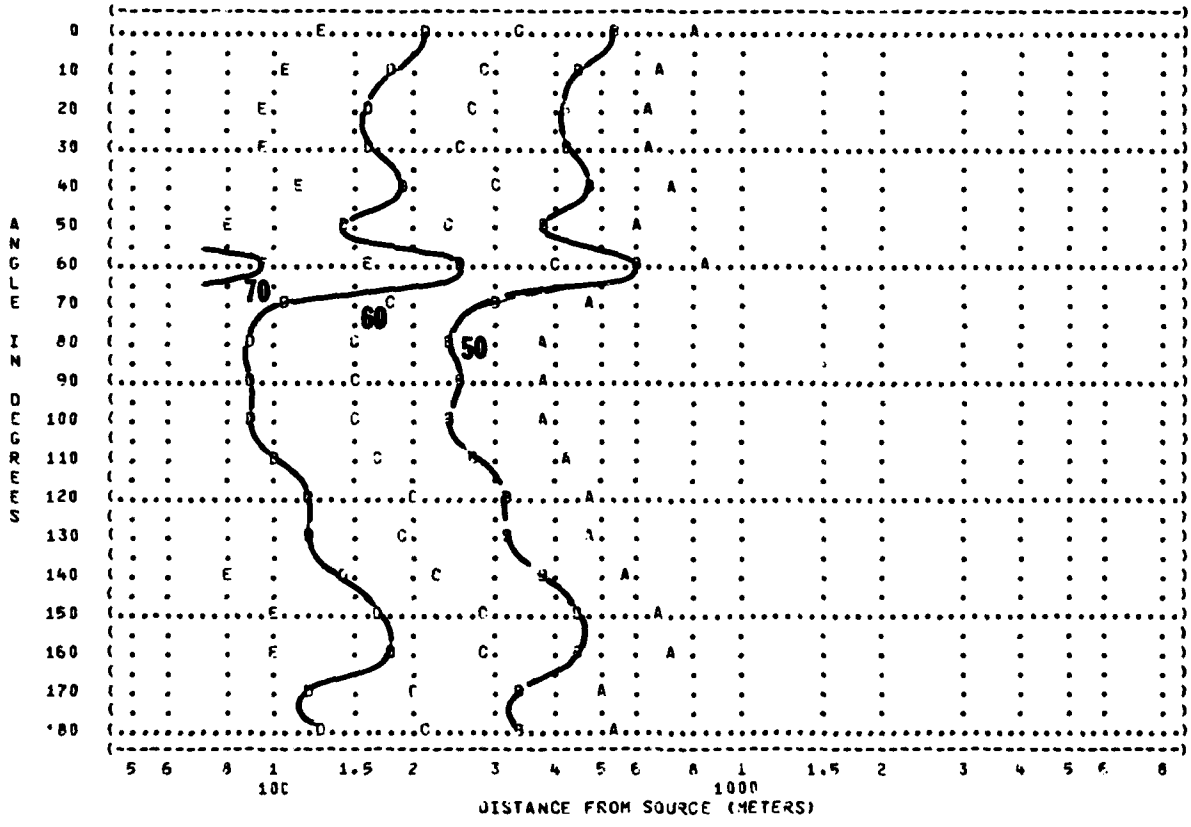


FIGURE 9.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (OBA)

IDENTIFICATION:
OMEGA 1.4
TEST RF-711-001
RUN 03
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION:
100 % RPM (MAX MIL PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70
G	75

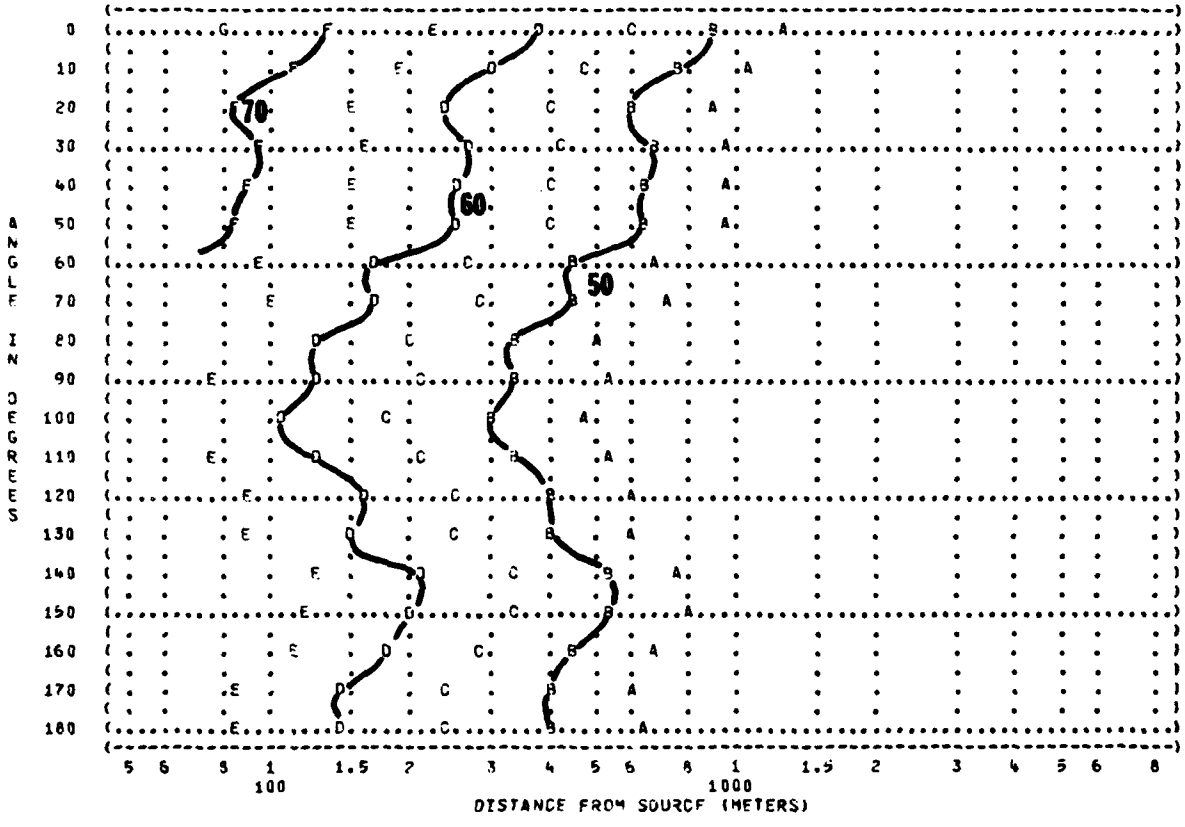


FIGURE: 9.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-001
RUN 01
26 OCT 81
PAGE 16

POINT	PNDB
A	60
B	65
C	70
D	75

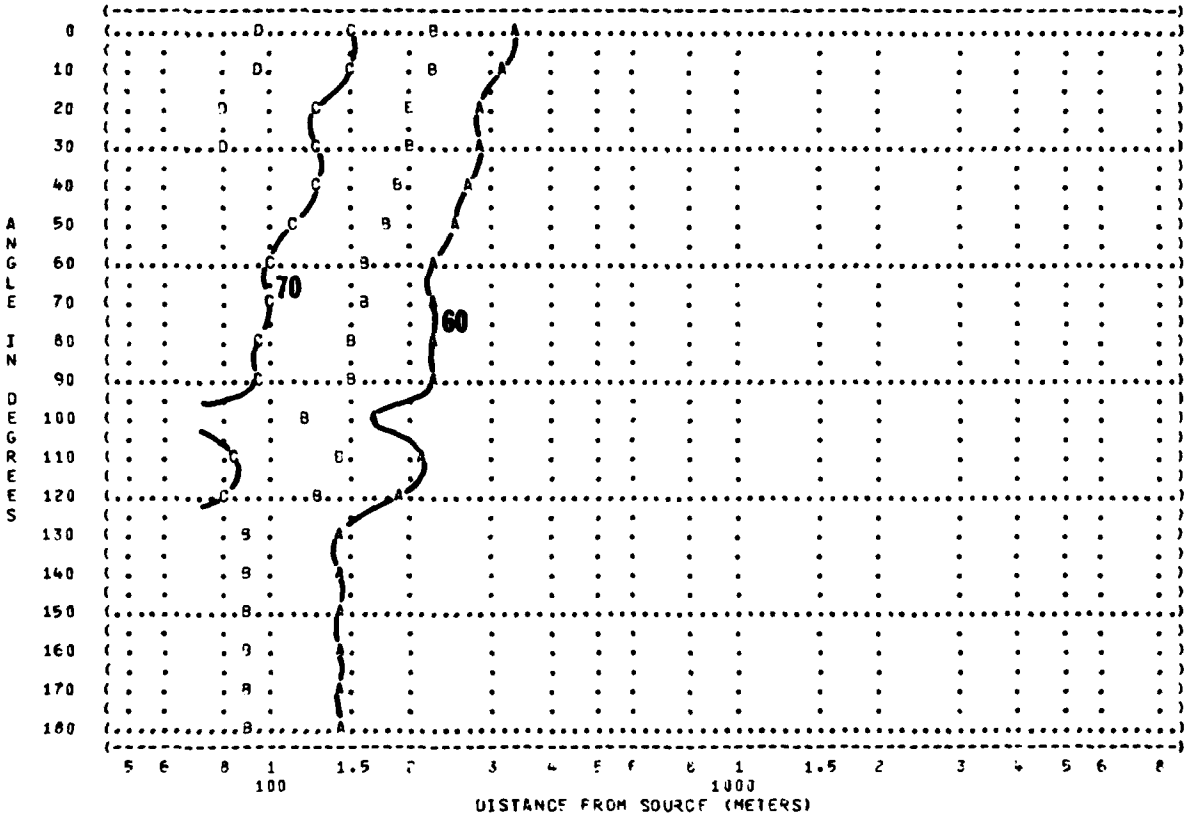


FIGURE 9.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION: OMEGA 1.4 / TEST BF-711-881 / RUN 02 / 26 OCT 81 / PAGE 16

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION: 95% RPM (MILITARY PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C; BAR PRESS = .768 M HG; REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85

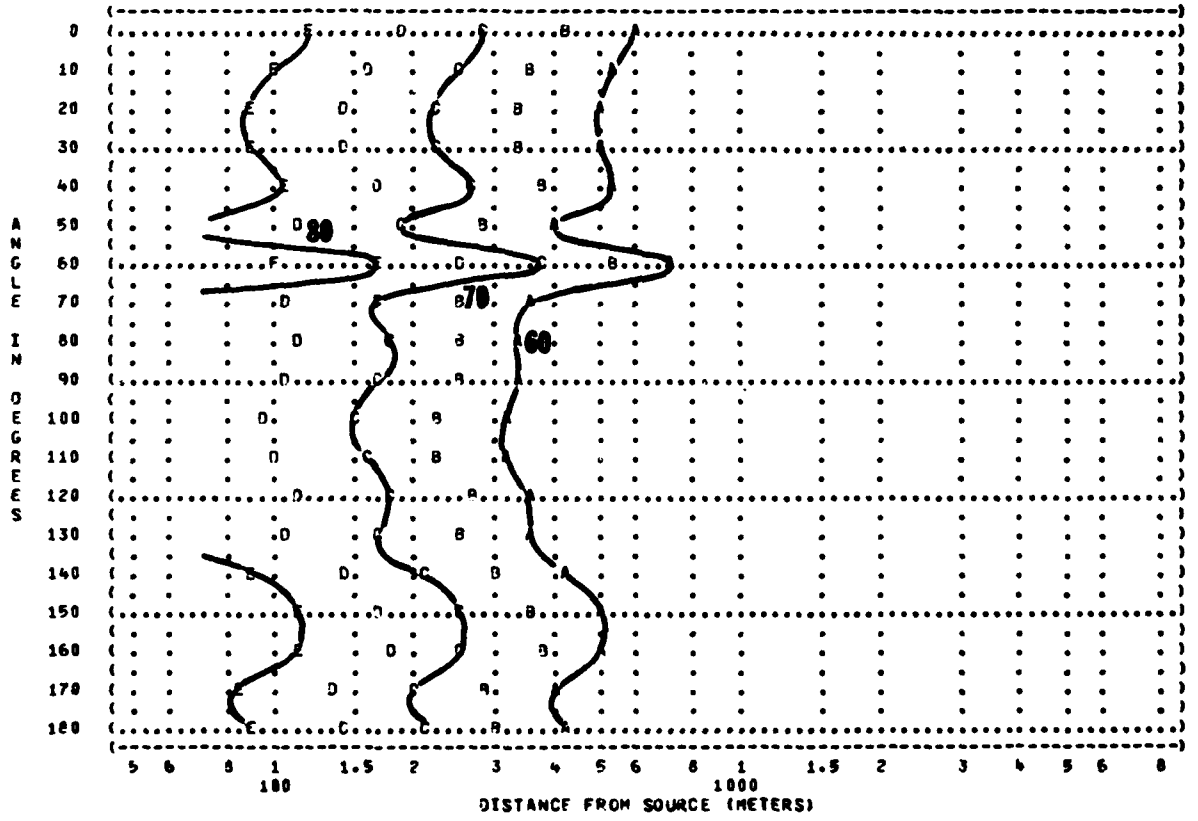


FIGURE: 9.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION: OMEGA 1.4 TEST BF-711-001 RUN 03 26 OCT 81 PAGE 15

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION: 100 % RPM (MAX MIL PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85

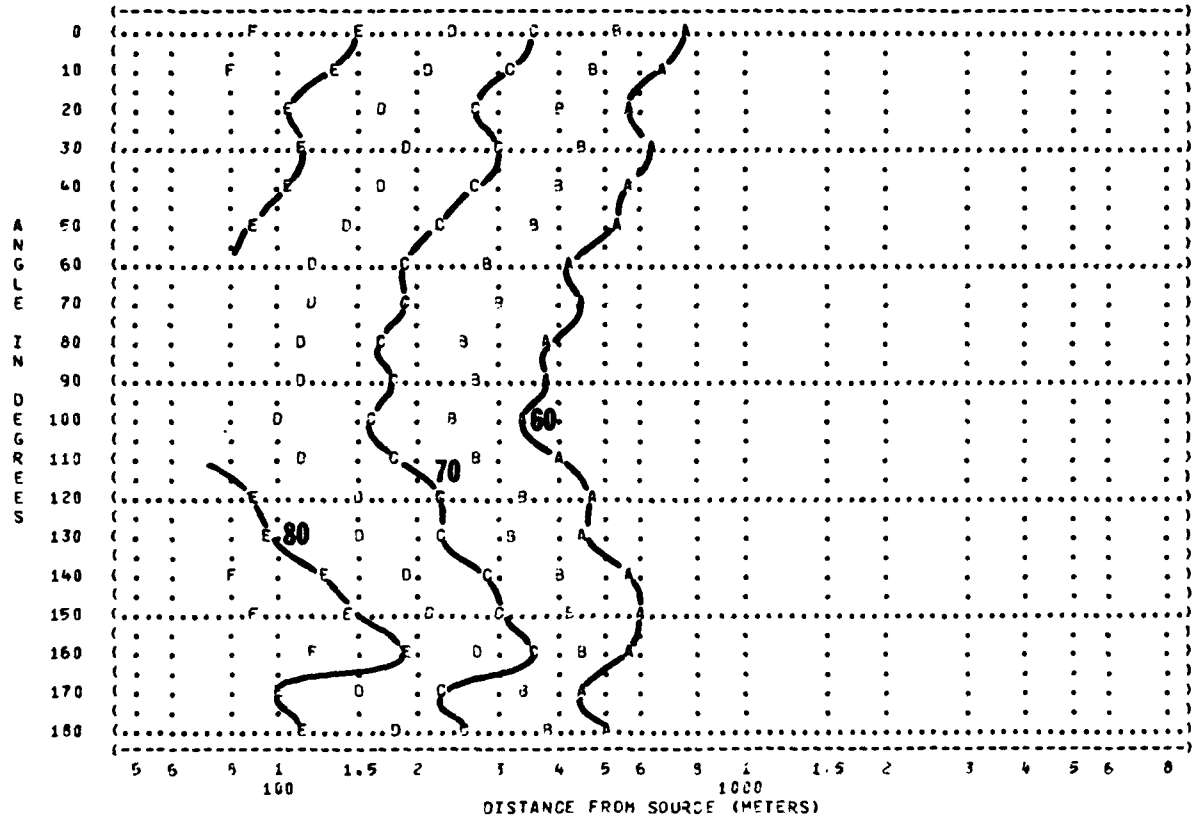


FIGURE 9.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATIONS:
OMEGA 1.4
TEST BF-711-001
RUN 01
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

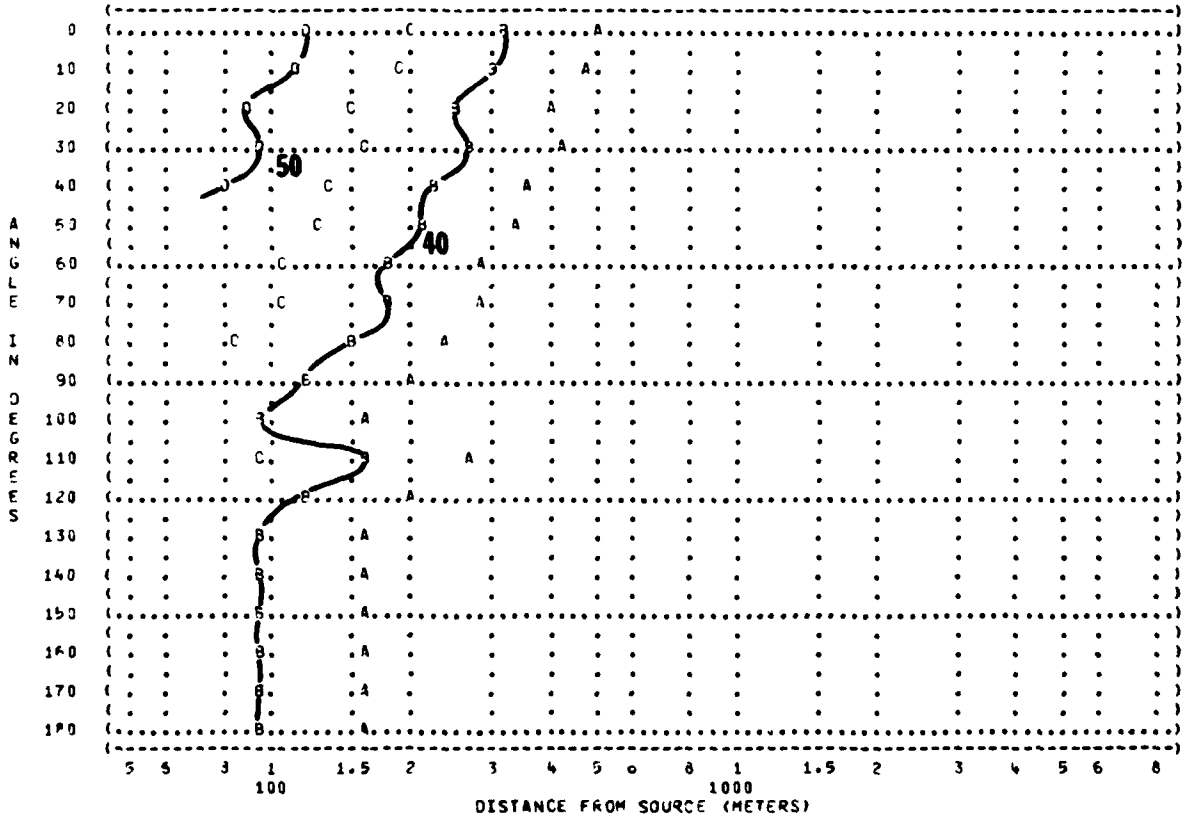


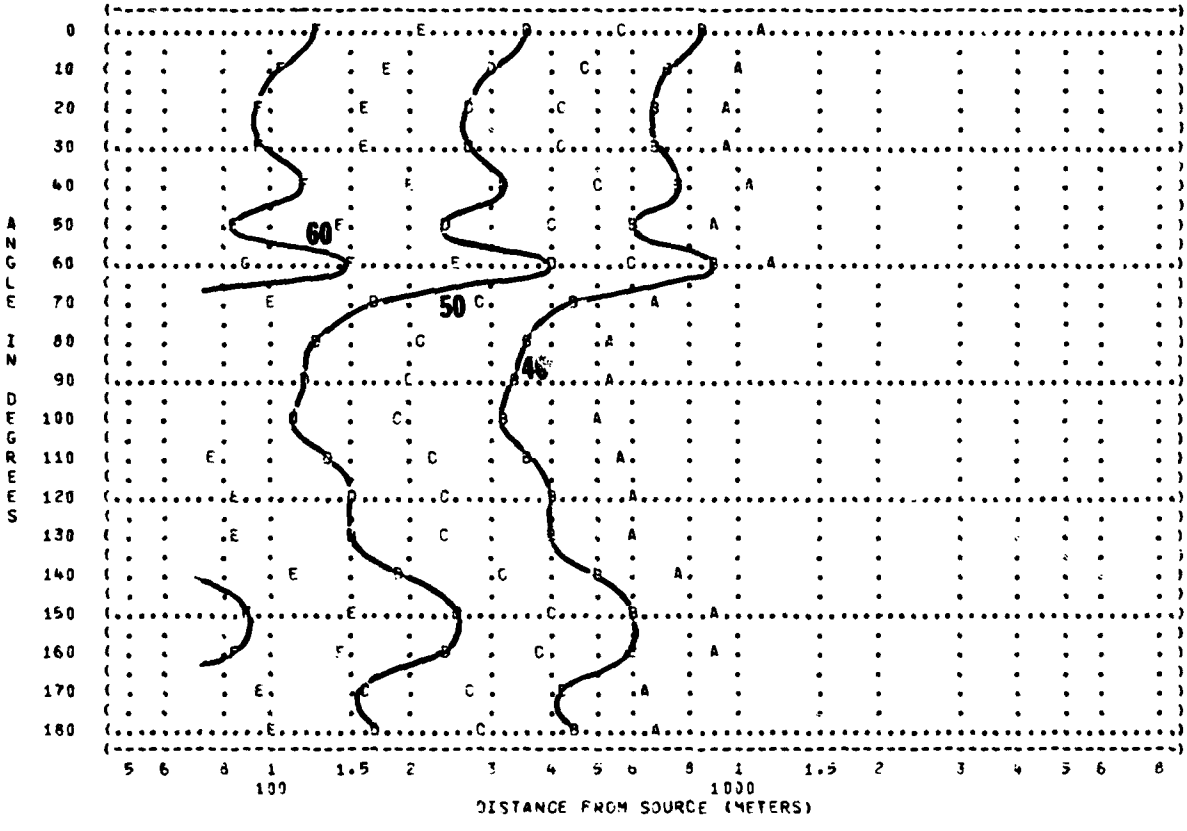
FIGURE 9.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
95% RPM (MILITARY PWR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST AF-711-001
RUN 02
26 OCT 81
PAGE 17



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

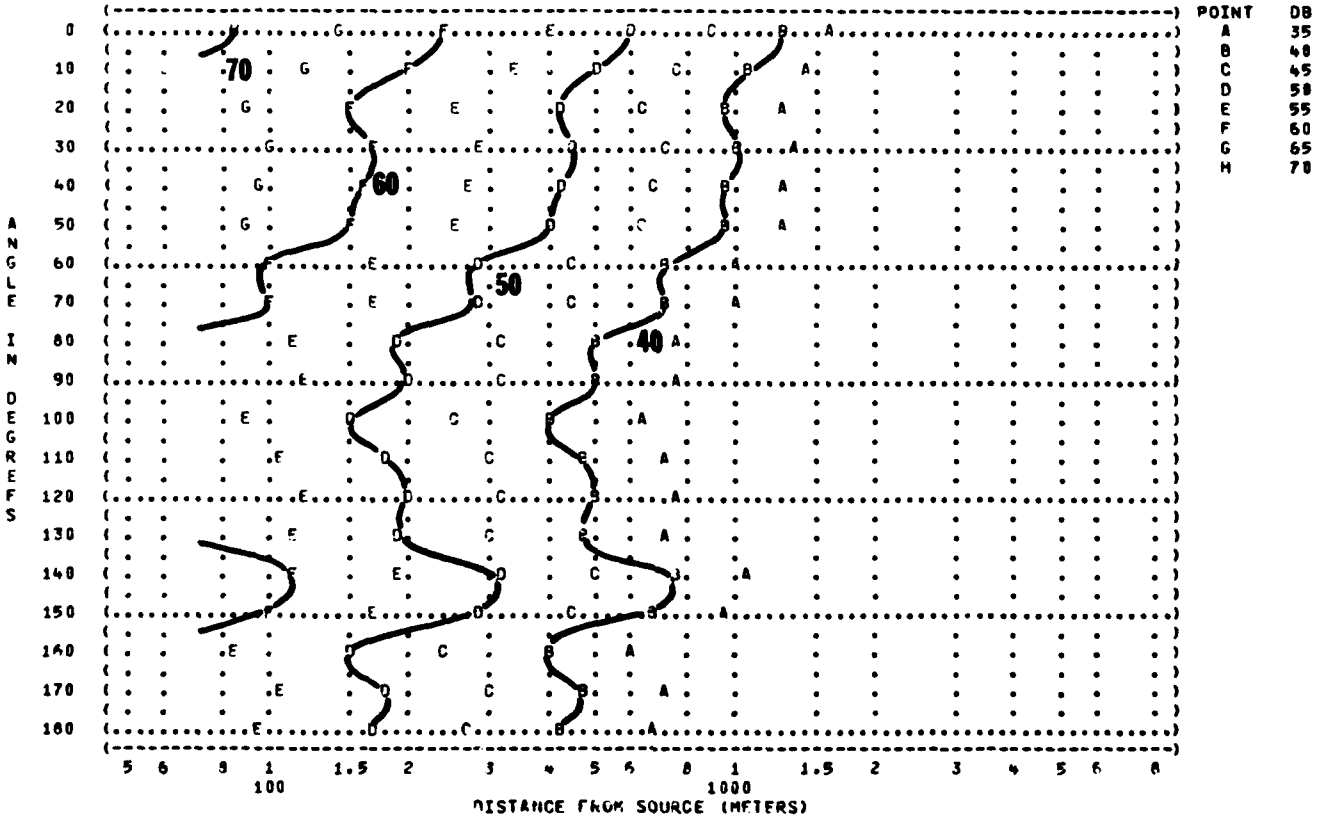
FIGURE: 9.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATIONS:
OMEGA 1.4
TEST BF-711-001
RUN 03
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION:
100 % RPM (MAX MIL PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE 9.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST RF-711-001
RUN 01
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(A-7 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

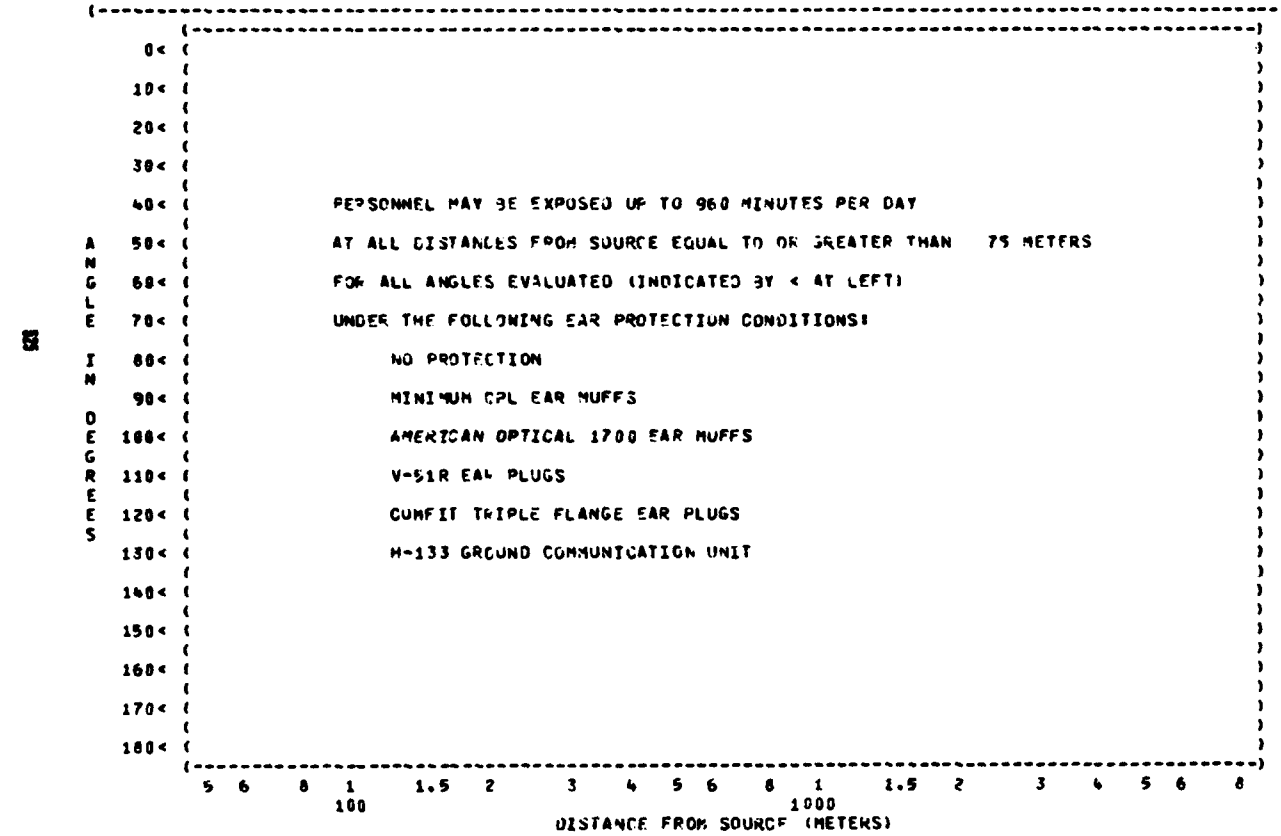


FIGURE: 9.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-001
RUN 02
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION: 95% RPM (MILITARY PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C, BAR PRESS = .760 M HG, REL HUMID = 70 %

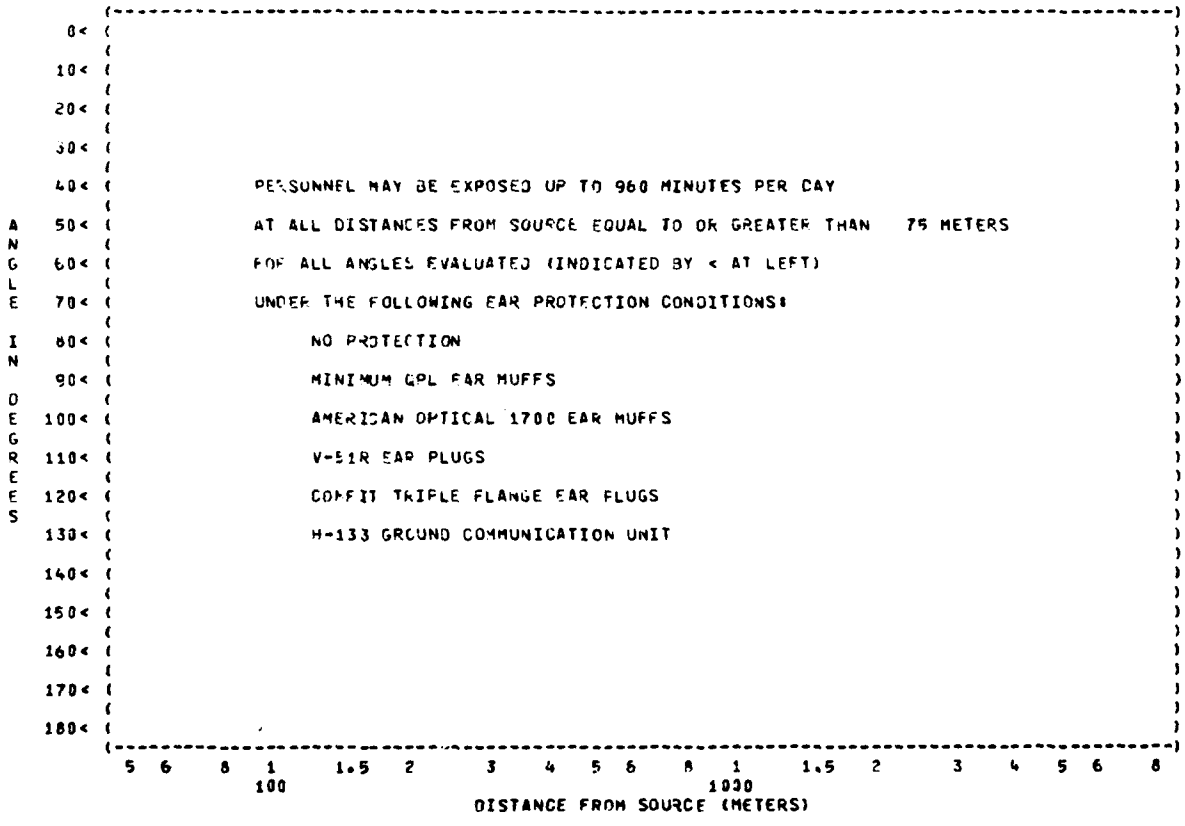


FIGURE 9.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION: 100 % RPM (MAX MIL PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C, BAR PRESS = .760 M HG, REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4, TEST AF-711-001, RUN 03, 26 OCT 81, PAGE 7

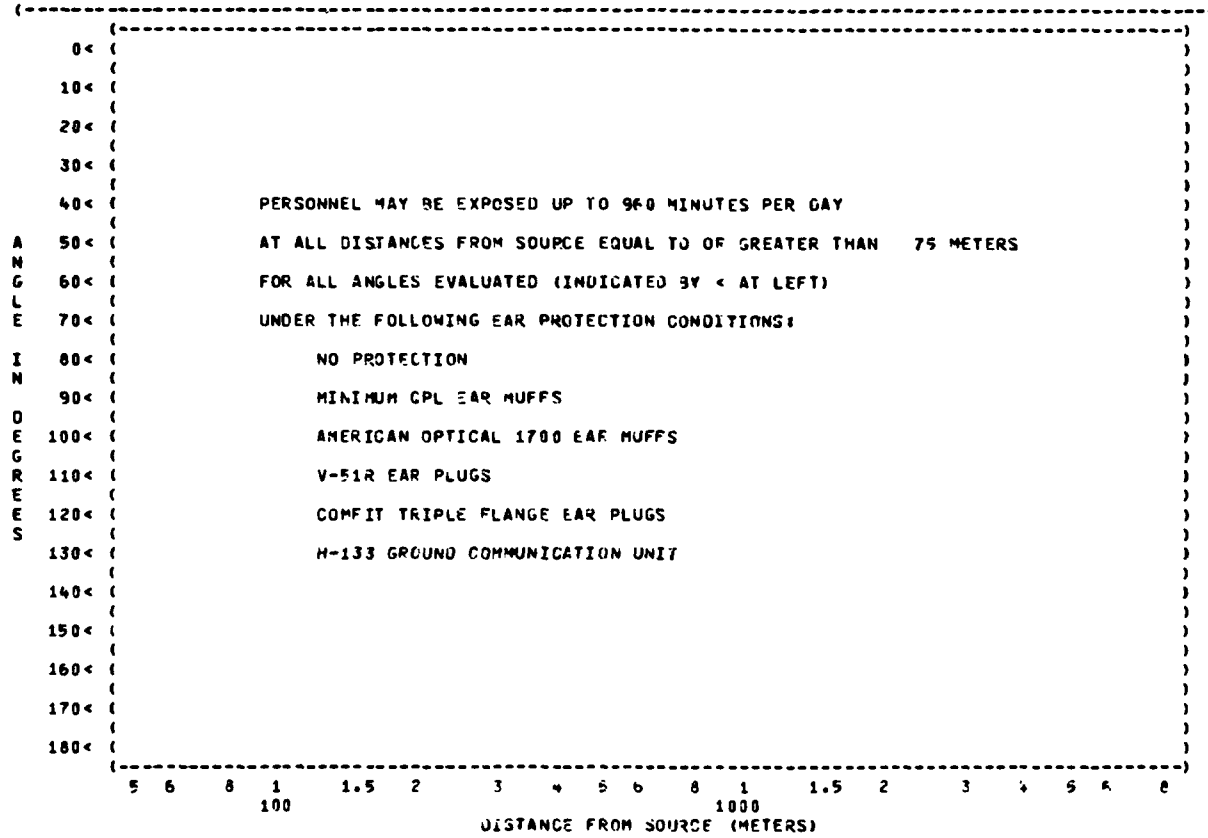


FIGURE: 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 78 %

IDENTIFICATION: OMEGA 1.4 TEST BF-711-001 RUN 01 26 OCT 81 PAGE 18

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

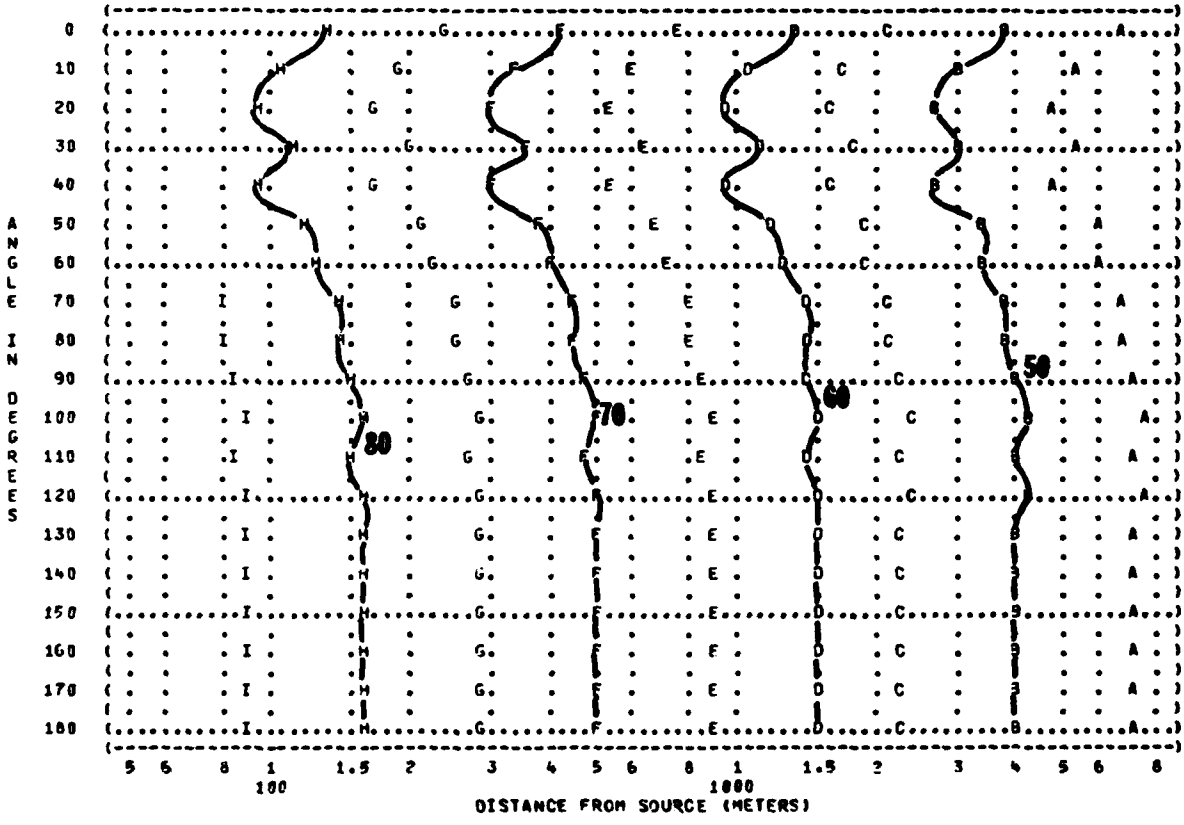
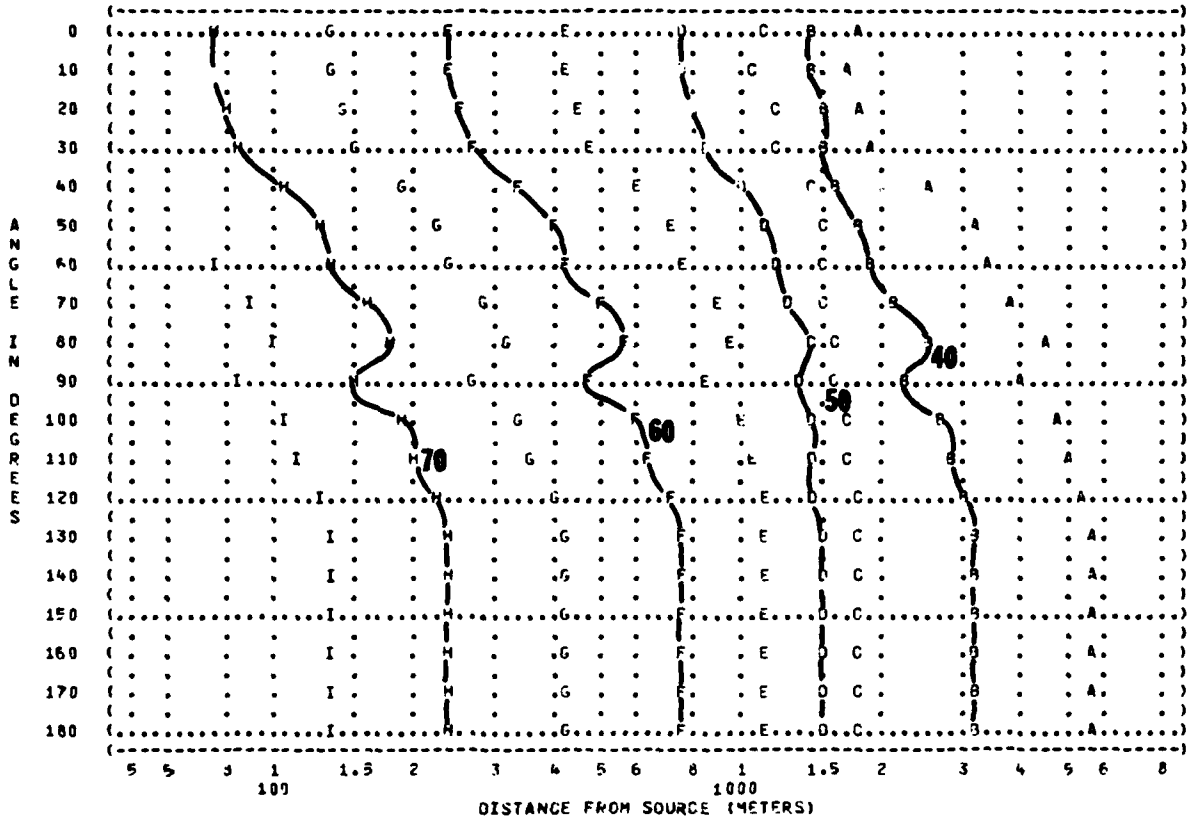


FIGURE 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:	IDENTIFICATION:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE	85% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	TEMP = 15 C BAR PRESS = .750 M HG REL HUMID = 70 %	OMEGA 1.4 TEST 8F-711-001 RUN 01 26 OCT 81 PAGE 19



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

FIGURE: SOUND PRESSURE LEVEL (SPL)
9.8 EQUAL LEVEL CONTOURS (DB)
63 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST 8F-711-001
RUN 01
26 OCT 81
PAGE 20

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(A-7 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

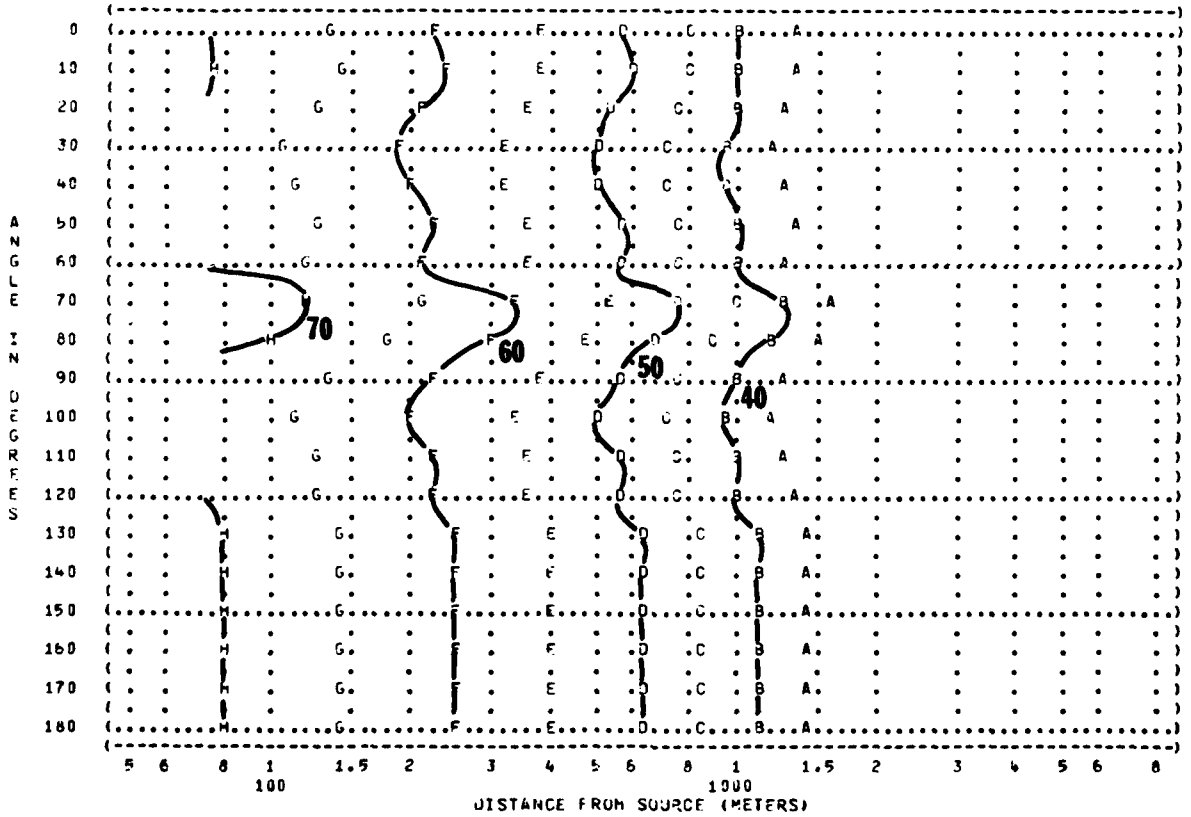


FIGURE 9.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-001
RUN 01
26 OCT 81
PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

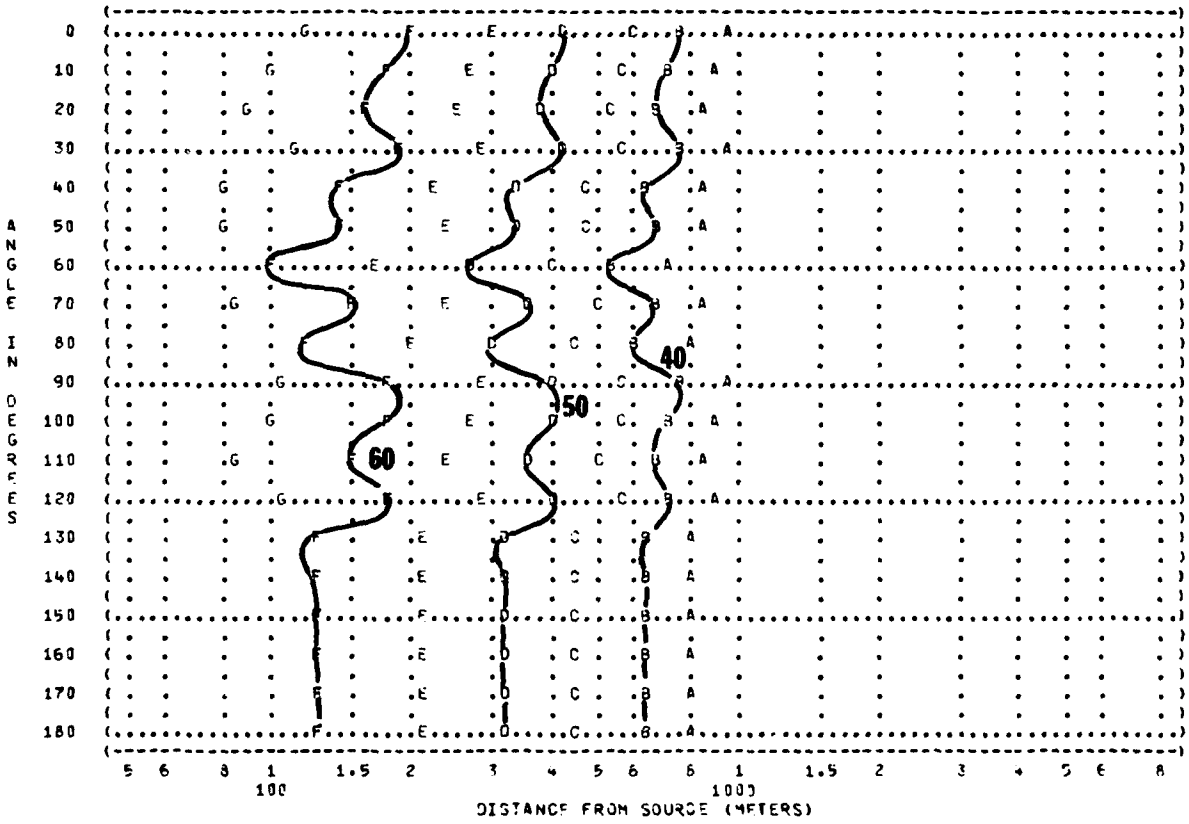


FIGURE 9.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-081
RUN 01
26 OCT 81
PAGE 22

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C; BAR PRESS = .760 M HG; REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

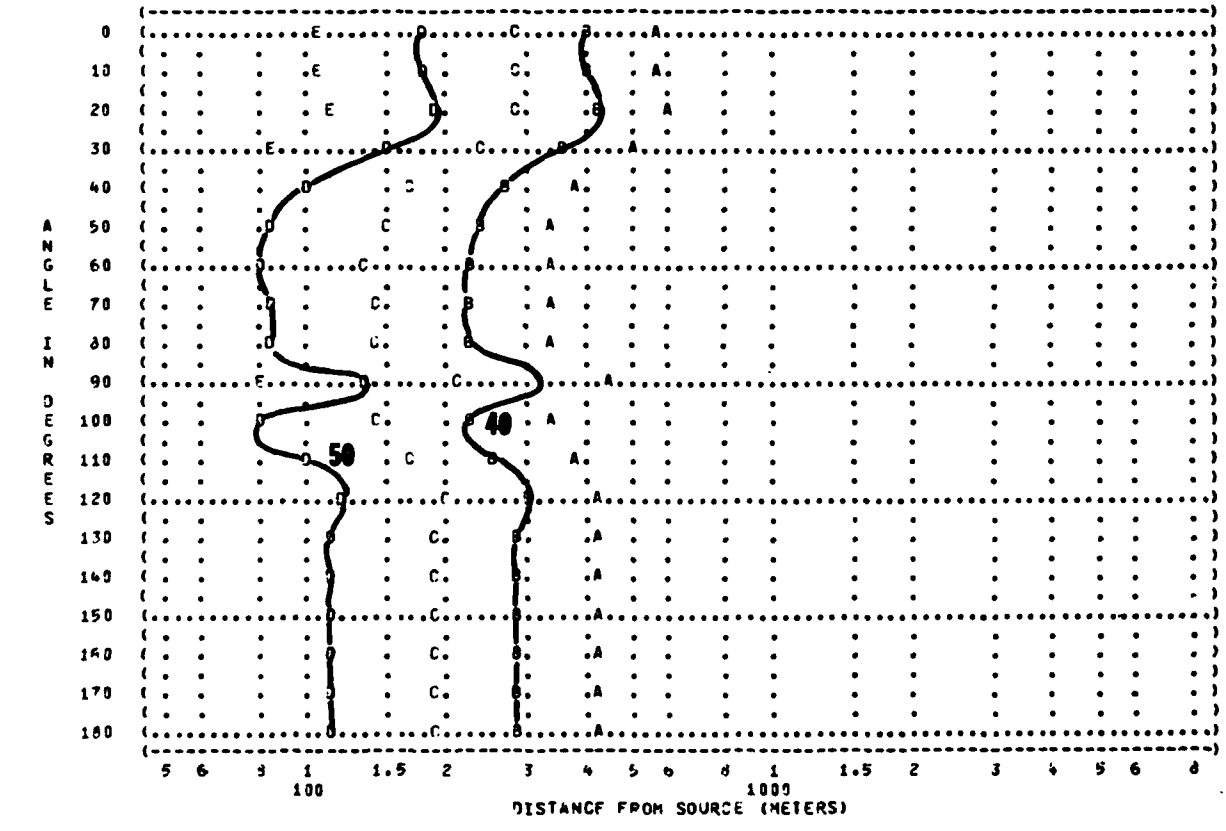


FIGURE: 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (CB) 500 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-711-001 RUN 01 26 OCT 81 PAGE 23

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASF HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

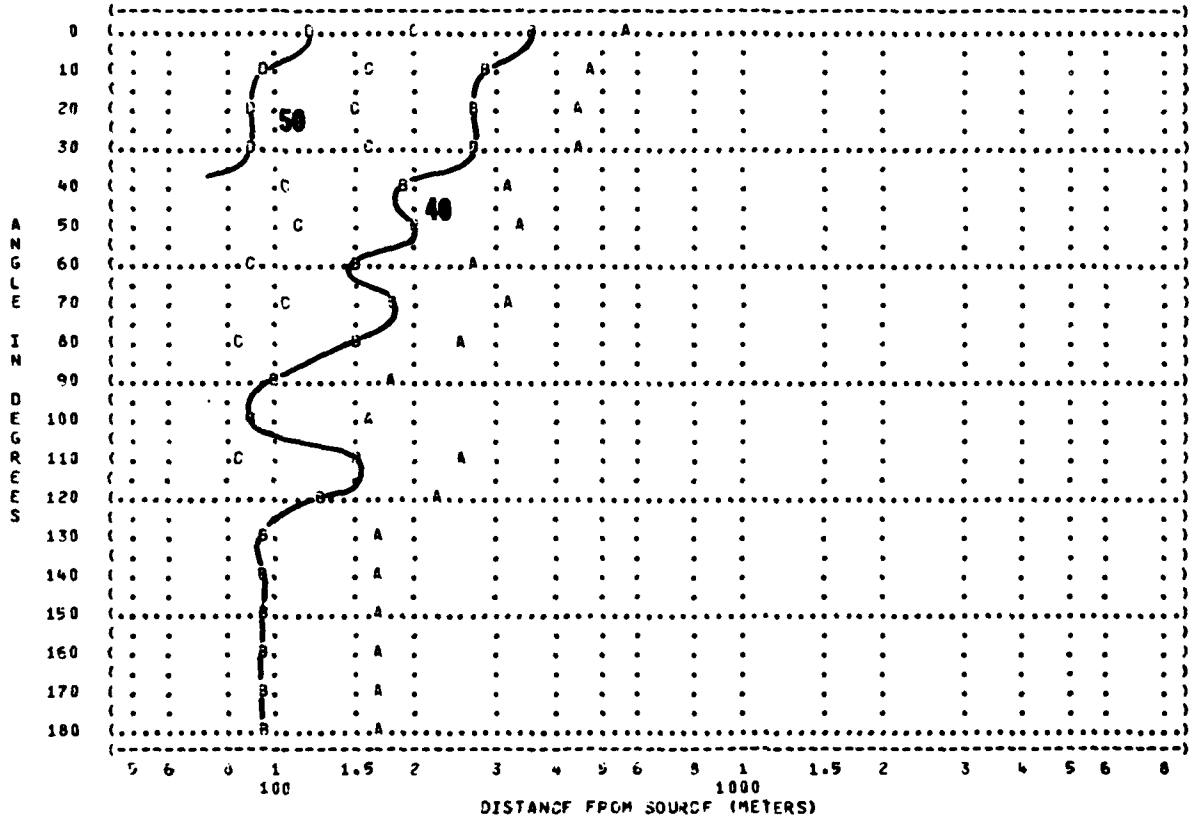


FIGURE 9.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-001
RUN 01
26 OCT 81
PAGE 24

POINT	DB
A	35
B	40
C	45
D	50

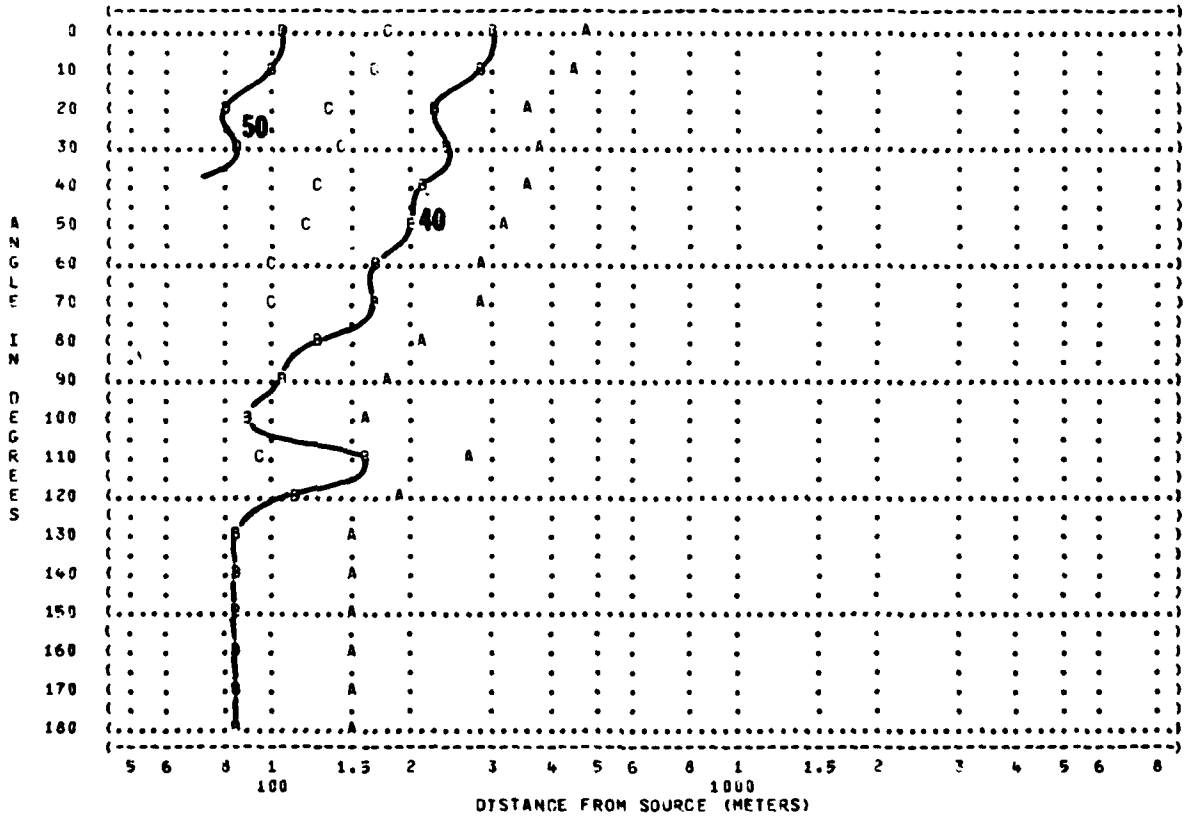


FIGURE 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-711-001 RUN 01 26 OCT 81 PAGE 25

POINT	DB
A	35
B	40
C	45
D	50
E	55

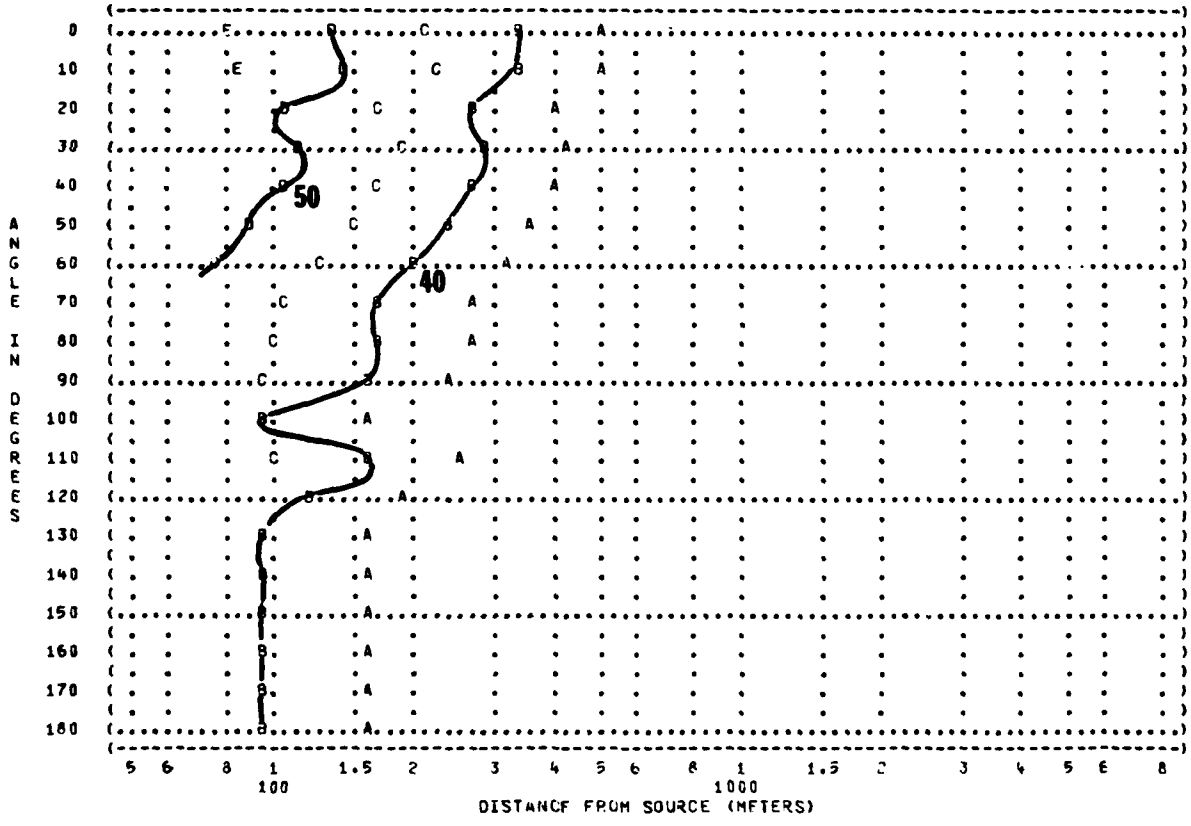


FIGURE 9.8: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C; BAR PRESS = .760 M MG; REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4; TEST BF-711-881; RUN 01; 26 OCT 81; PAGE 26

POINT	DB
A	35
B	40
C	45

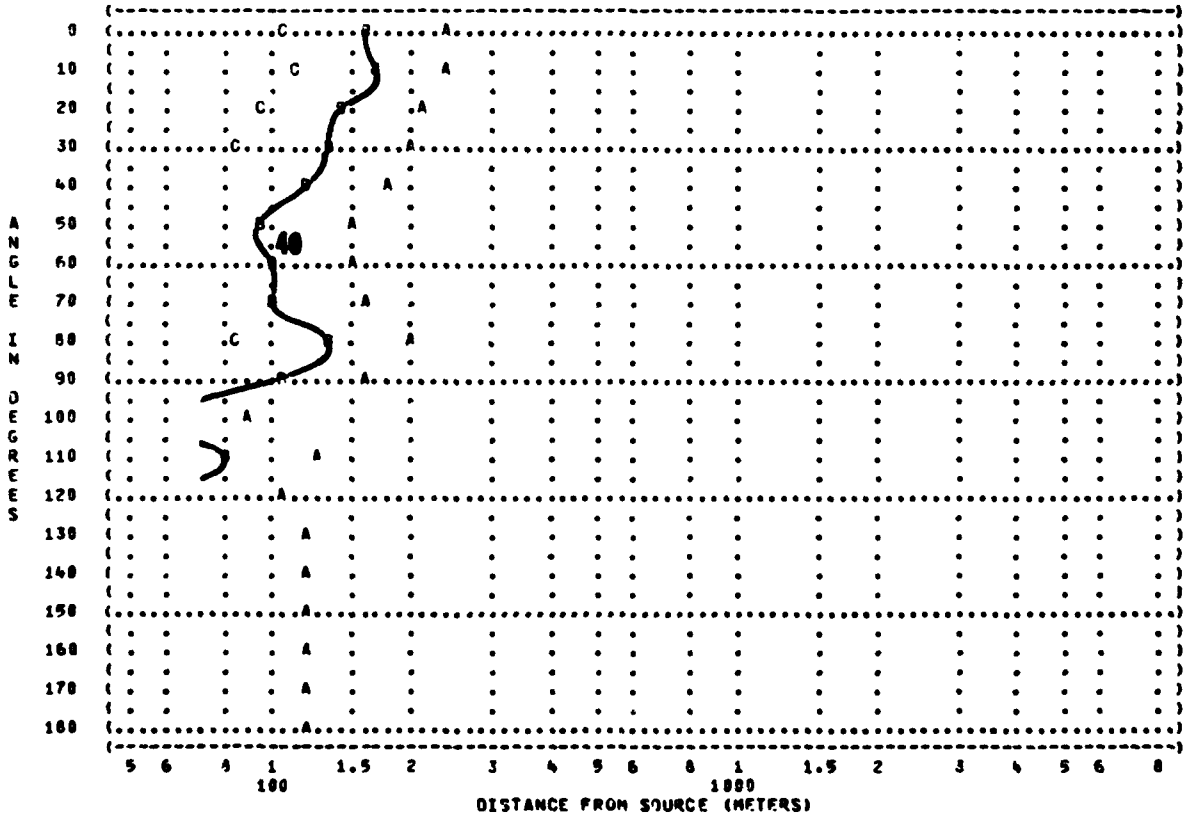


FIGURE: 9.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(A-7 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-001
RUN 01
26 OCT 81
PAGE 27

POINT	DB
A	35
B	40
C	45
D	50

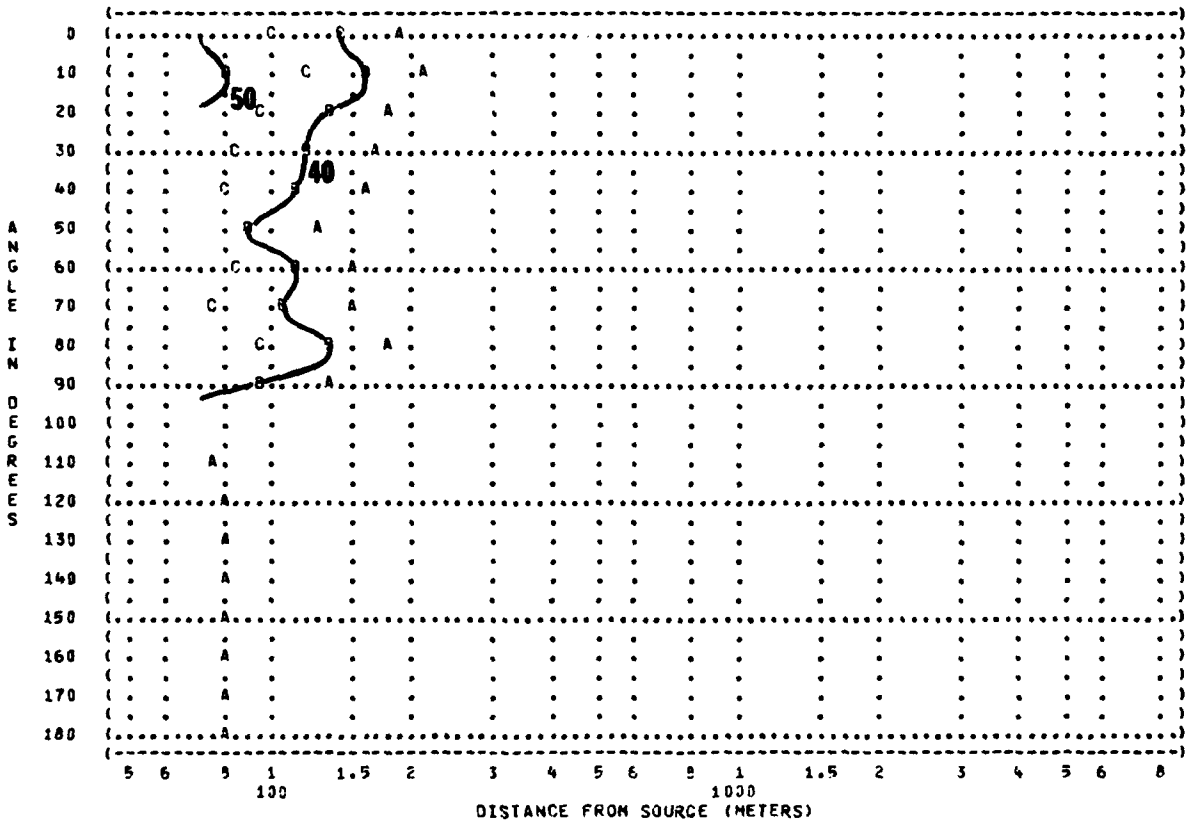


FIGURE 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
95% PPM (MILITARY PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TFST BF-711-001
RUN 02
26 OCT 81
PAGE 18

POINT	DB
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95

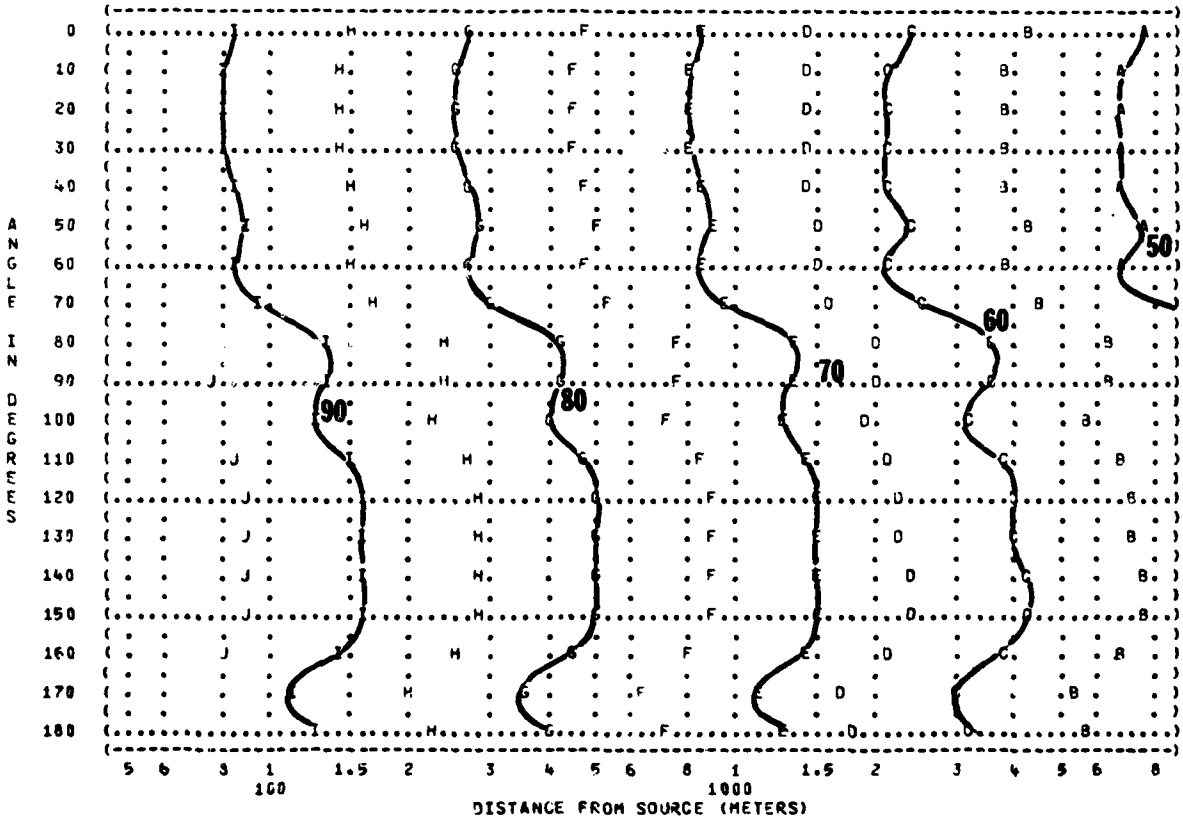


FIGURE 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
95% RPM (MILITARY PWR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATIONS:
OMEGA 1.4
TEST BF-711-001
RUN 02
26 OCT 81
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POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95

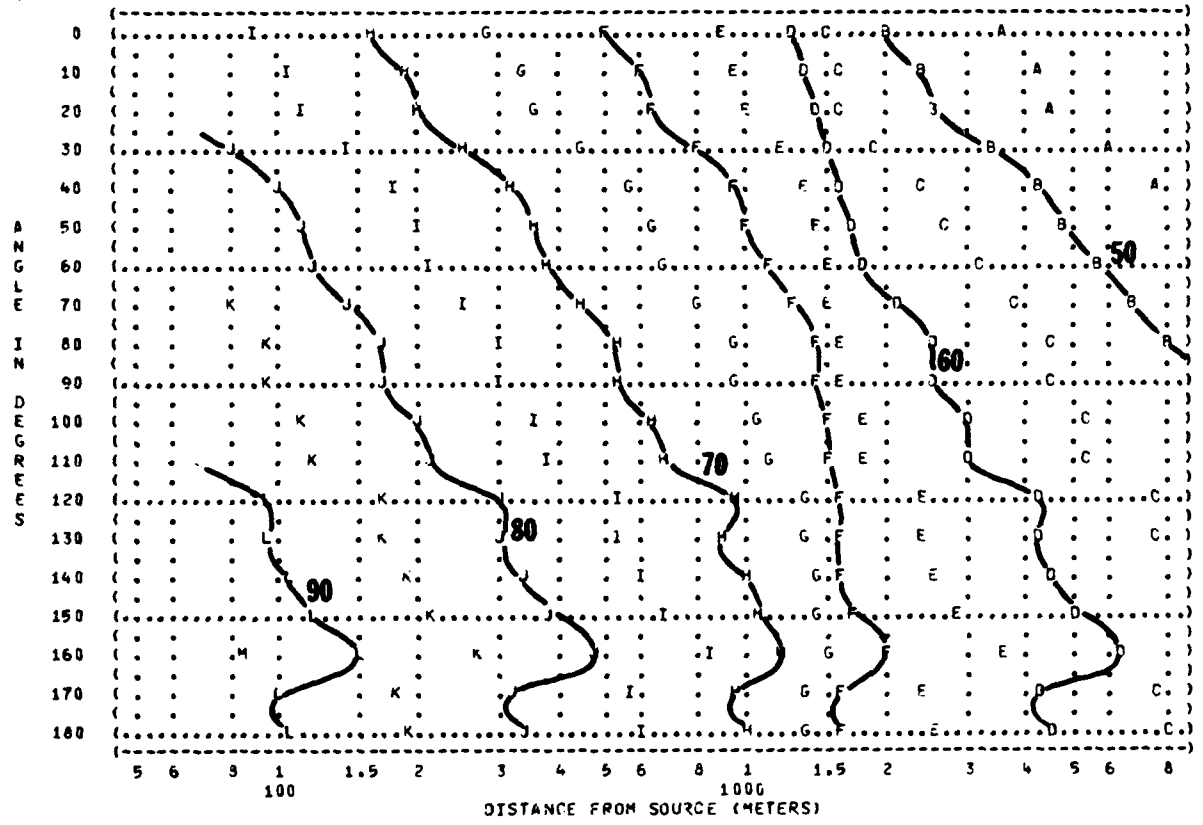

FIGURE 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-001
RUN 02
26 OCT 81
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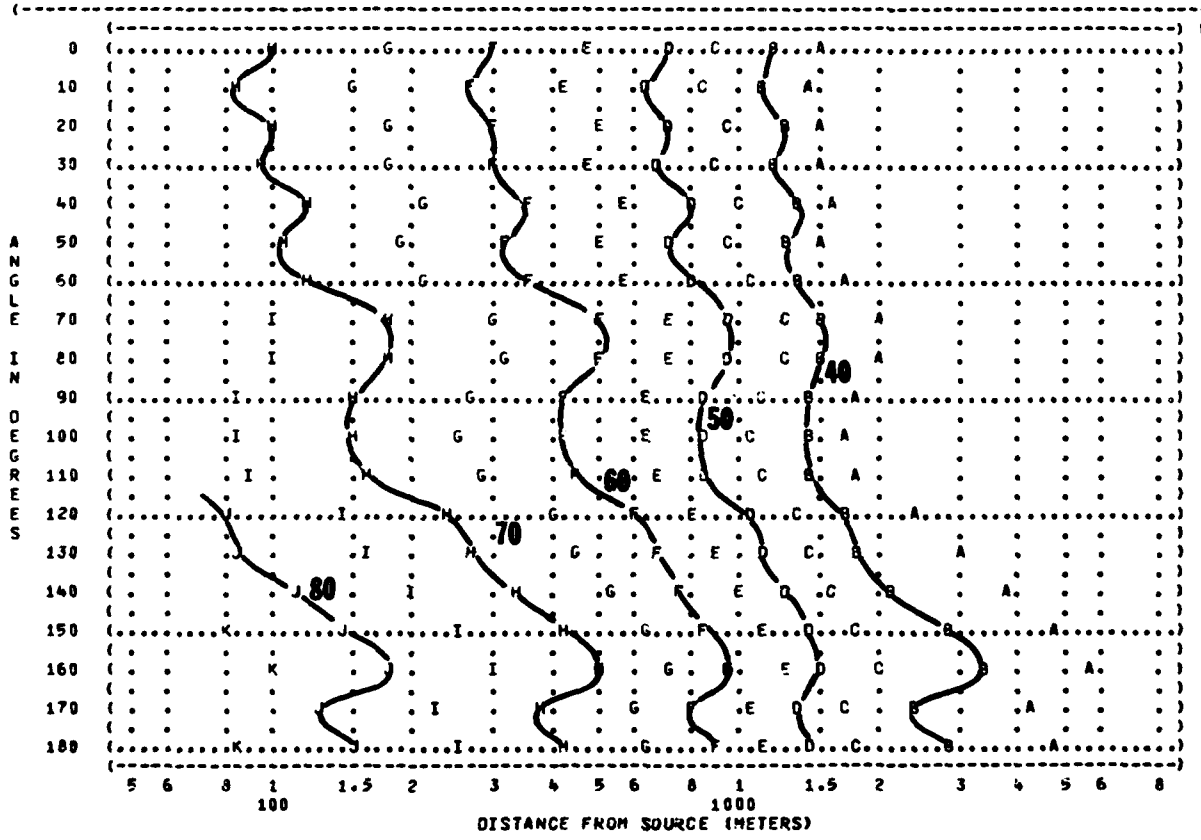
NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
95% RPM (MILITARY PWR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

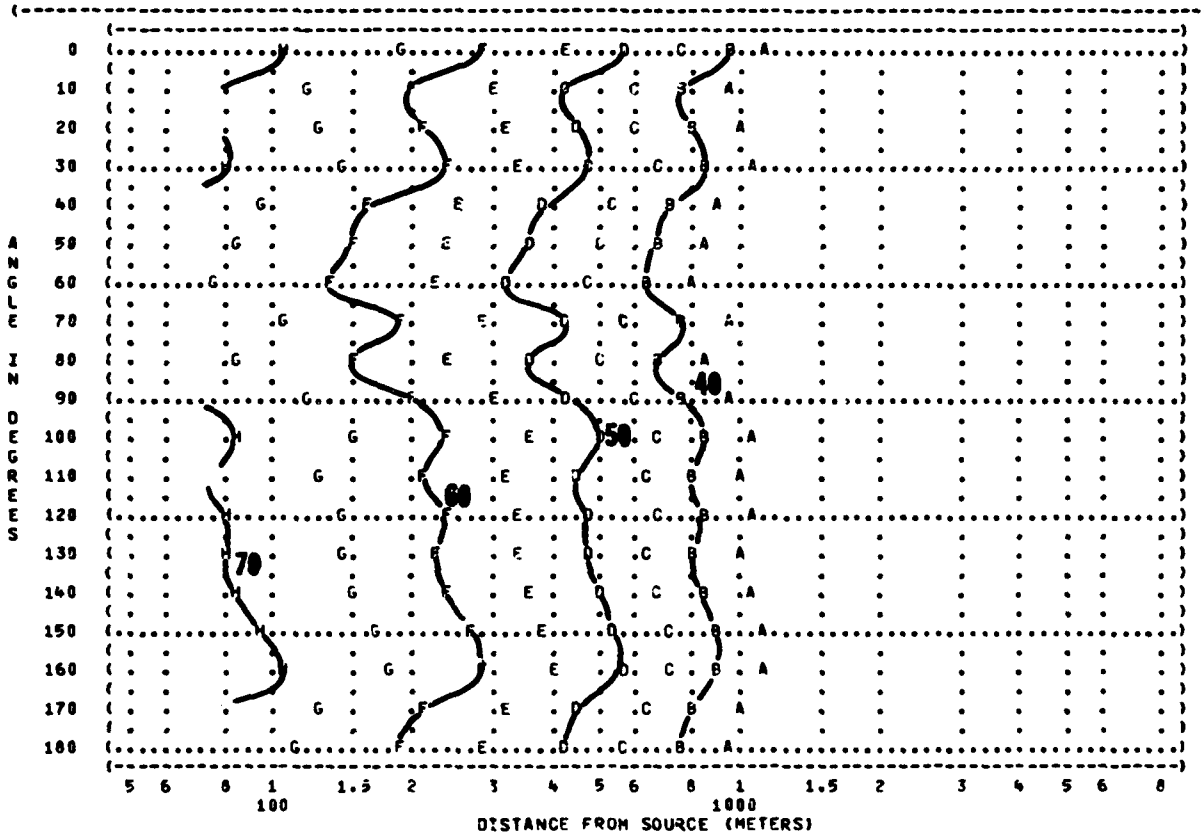
FIGURE 38: SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION: 95% RPM (MILITARY PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C; BAR PRESS = .760 M HG; REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4; TEST SF-711-001; RUN 02; 26 OCT 81; PAGE 21



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE: 9.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASF HUSH HOUSE
(A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
95% RPM (MILITARY PWR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 9F-711-001
RUN 02
26 OCT 81
PAGE 22

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

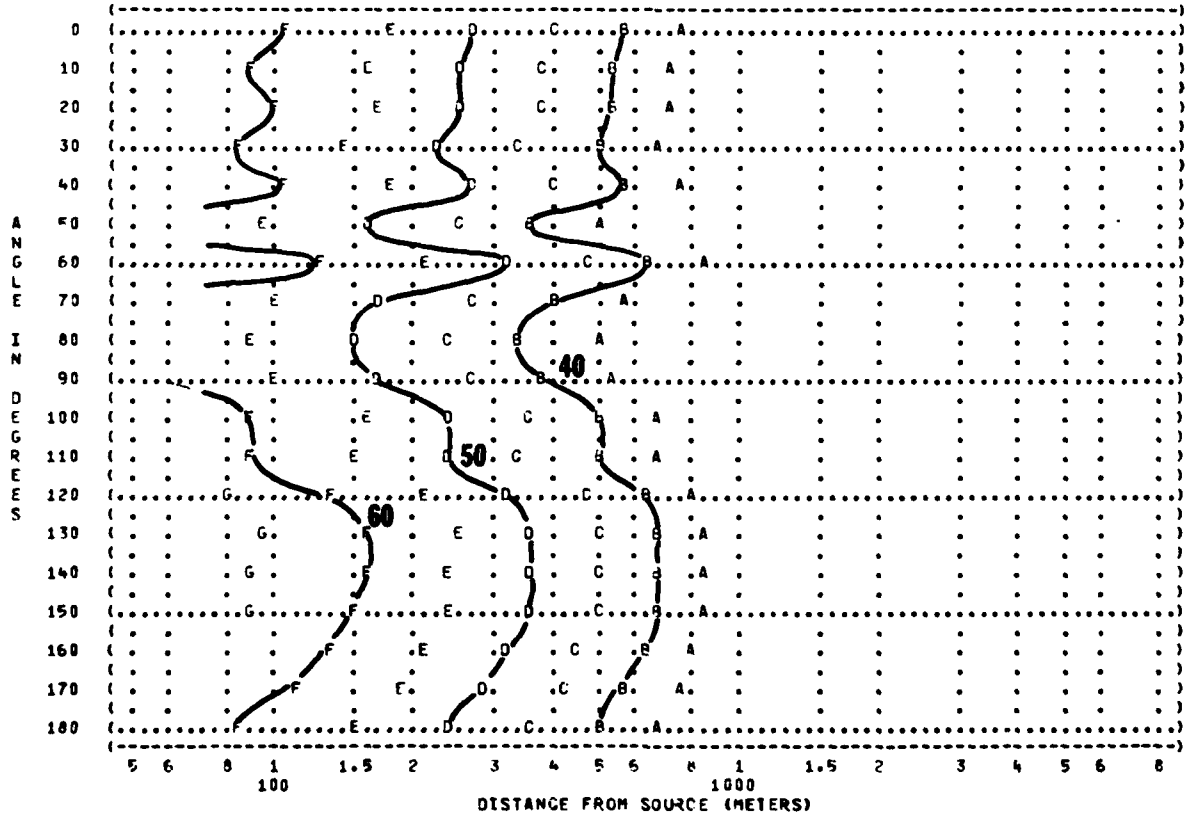


FIGURE: 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST AF-711-081 RUN 02 26 OCT 81 PAGE 23

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION: 95% PPM (MILITARY PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXA ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

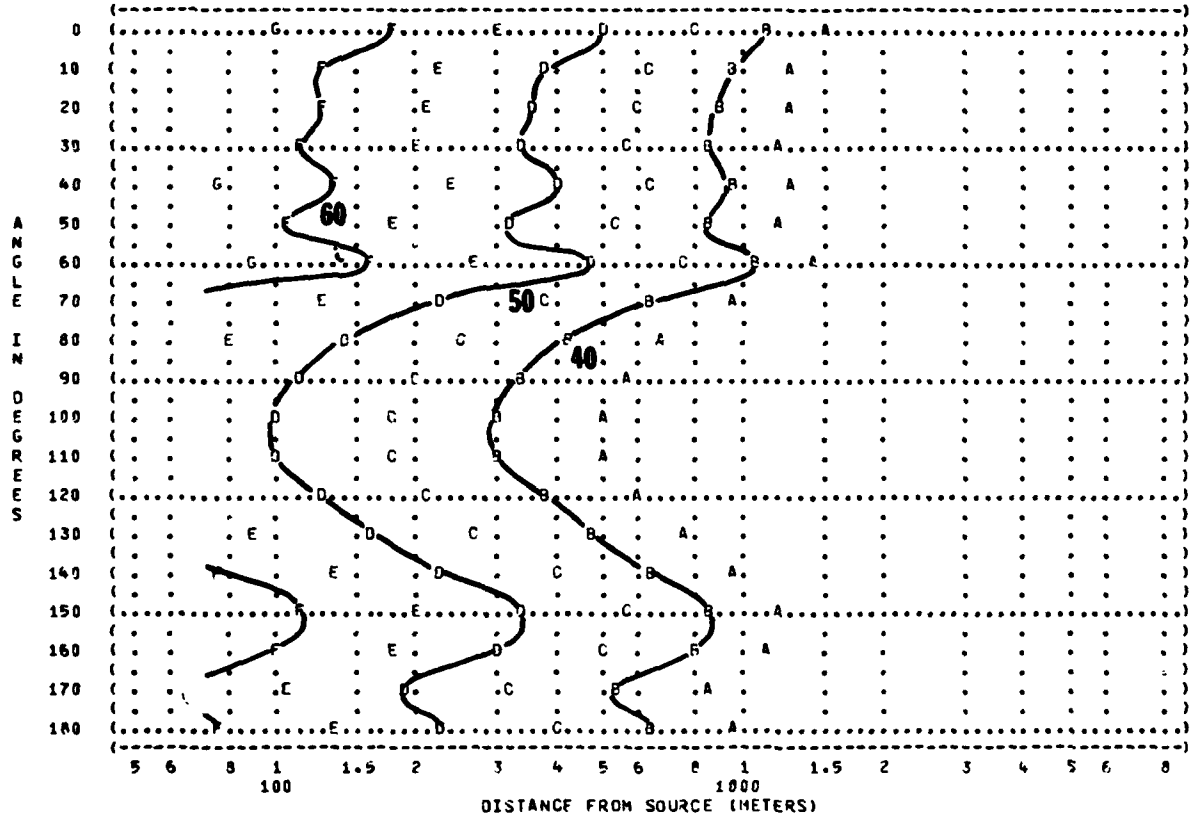


FIGURE 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION: 95% RPM (MILITARY PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-711-001 RUN 02 26 OCT 81 PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

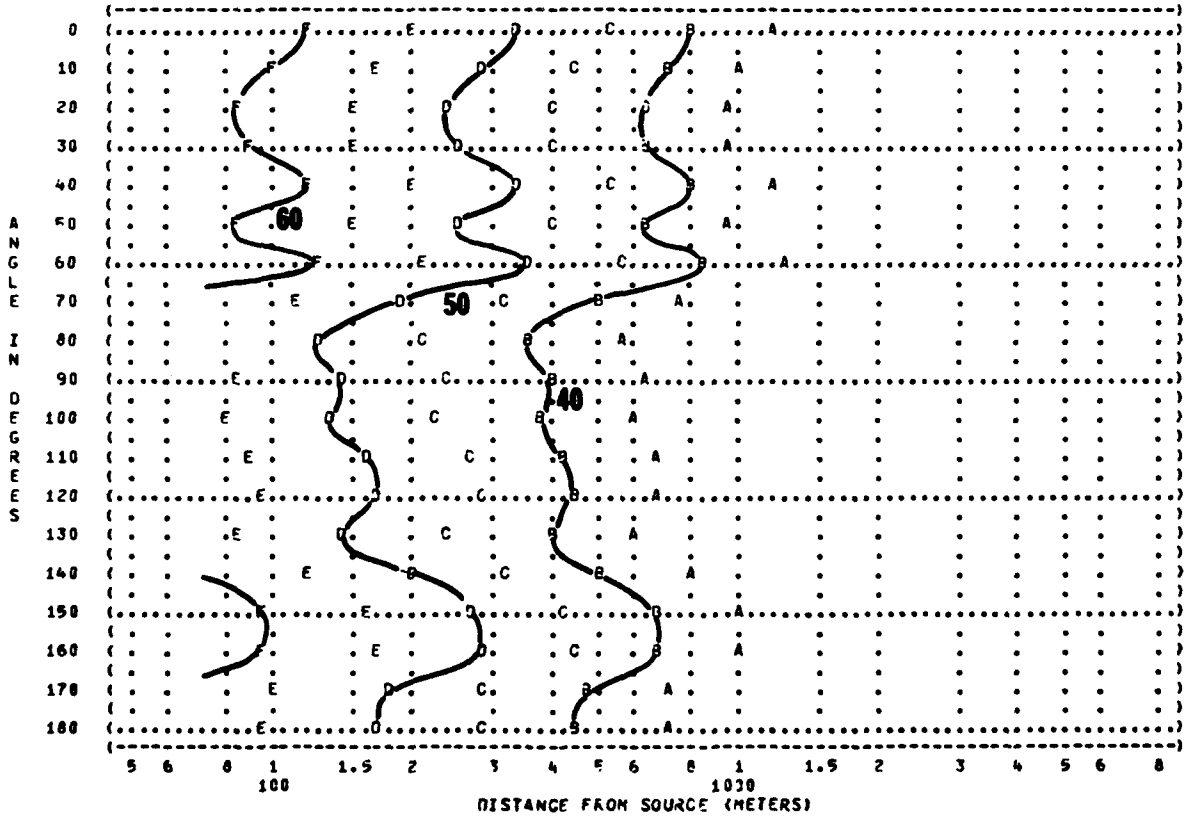


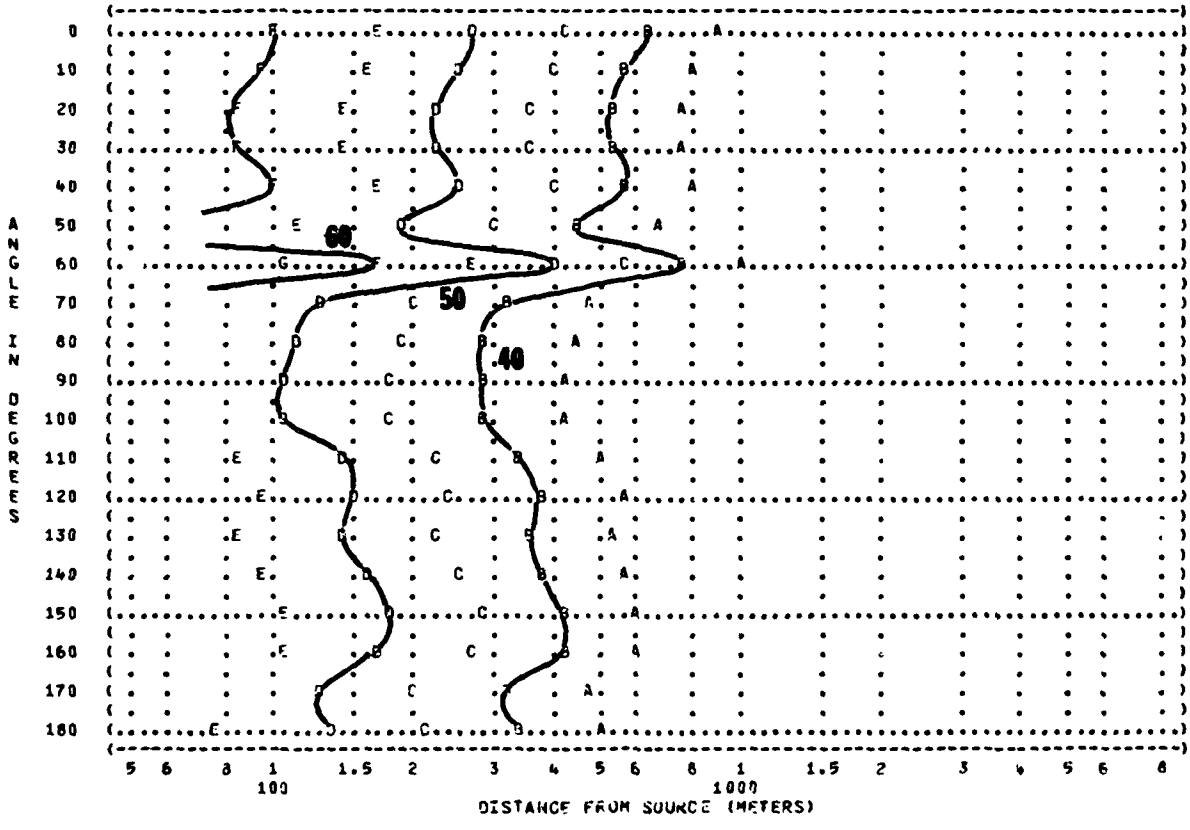
FIGURE 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION: 95% RPM (MILITARY PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-711-001 RUN 02 26 OCT 81 PAGE 25



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

FIGURE 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (C3) 4000 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-711-001 RUN 02 26 OCT 81 PAGE 26

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASF HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION: 95% RPM (MILITARY PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

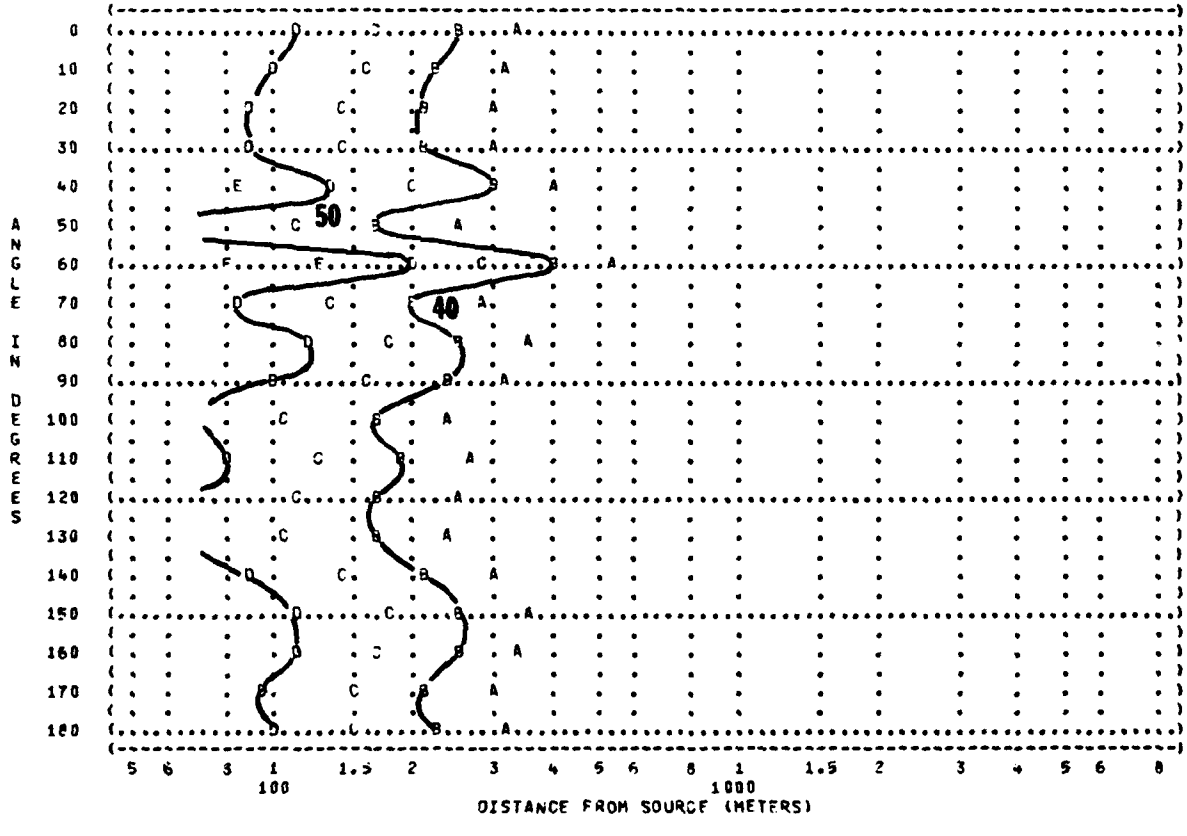
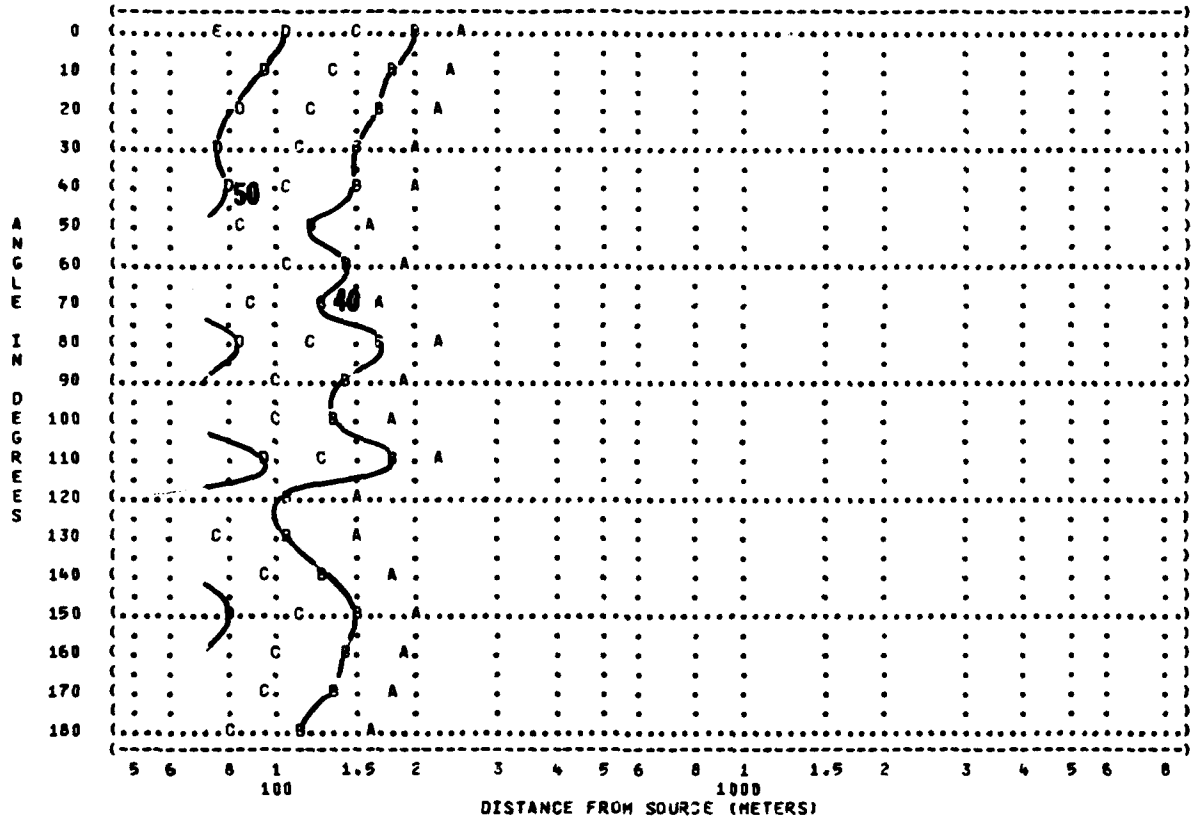


FIGURE	SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (D3) 8000 HZ OCTAVE BAND			IDENTIFICATION
9.8				OMEGA 1.4 TEST BF-711-001 RUN 02 26 OCT 81 PAGE 27
NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE	OPERATION: 95% RPM (MILITARY PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %		



POINT	DB
A	35
B	40
C	45
D	50
E	55

FIGURE: 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION: 100 % RPM (MAX MIL PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-711-001 RUN 03 26 OCT 81 PAGE 18

POINT	DB
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95

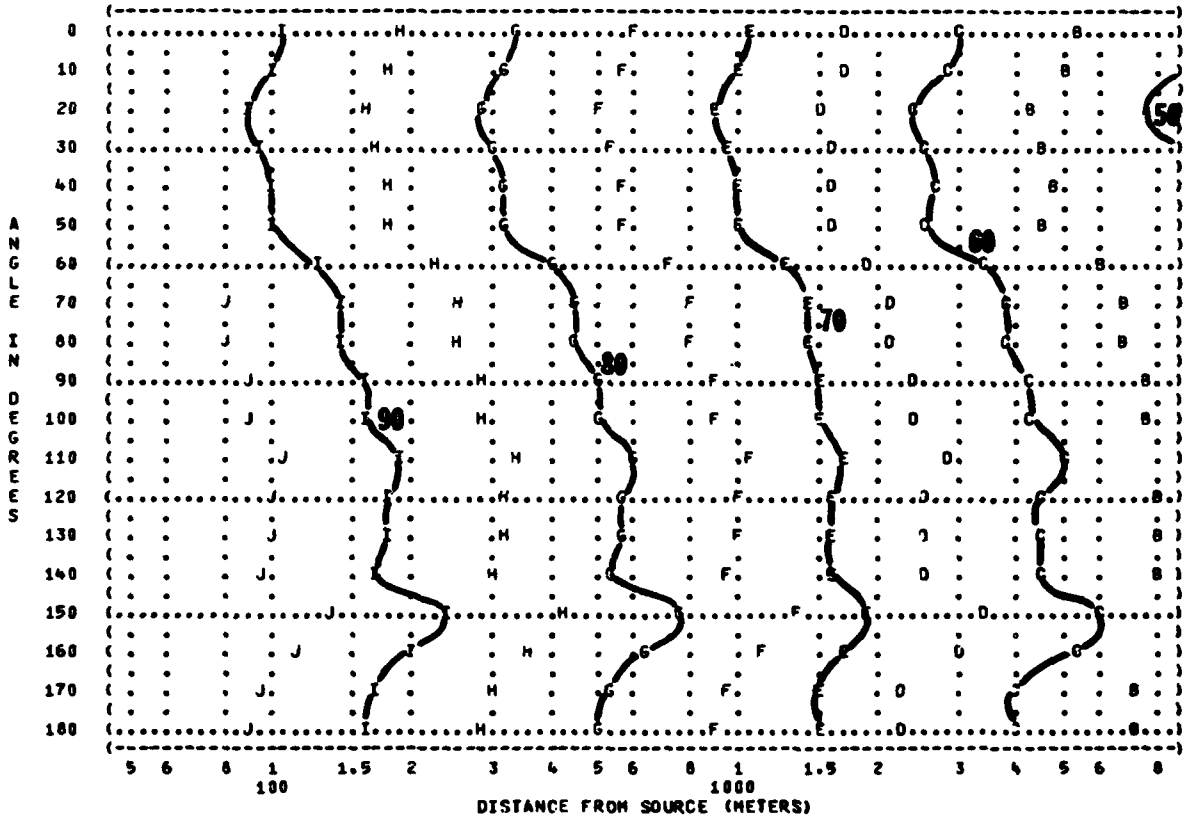


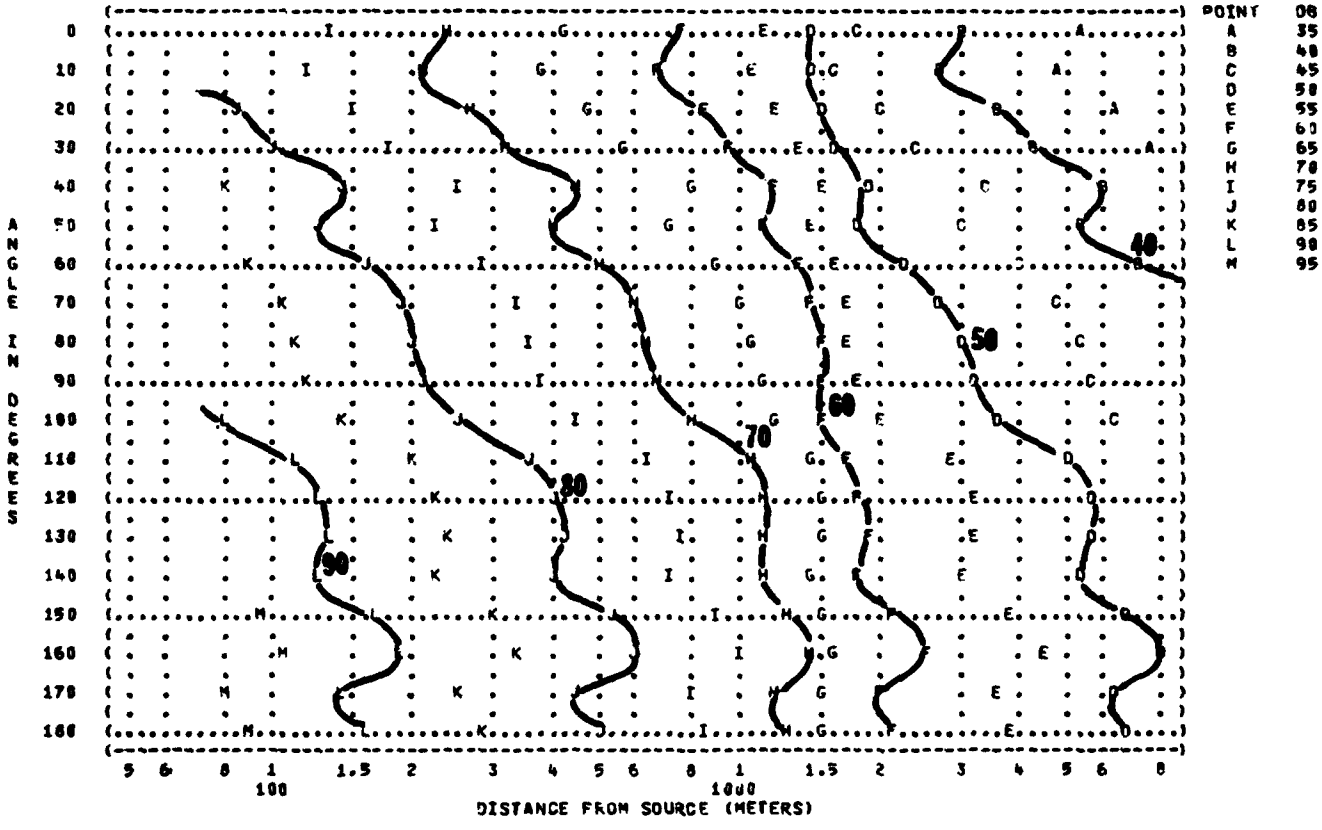
FIGURE 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
100 % RPM (MAX MIL PWR) SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-711-081
RUN 03
26 OCT 81
PAGE 19



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95

FIGURE 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST 8F-711-881
RUN 03
26 OCT 81
PAGE 20

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
100 % RPM (MAX MIL PWR) SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

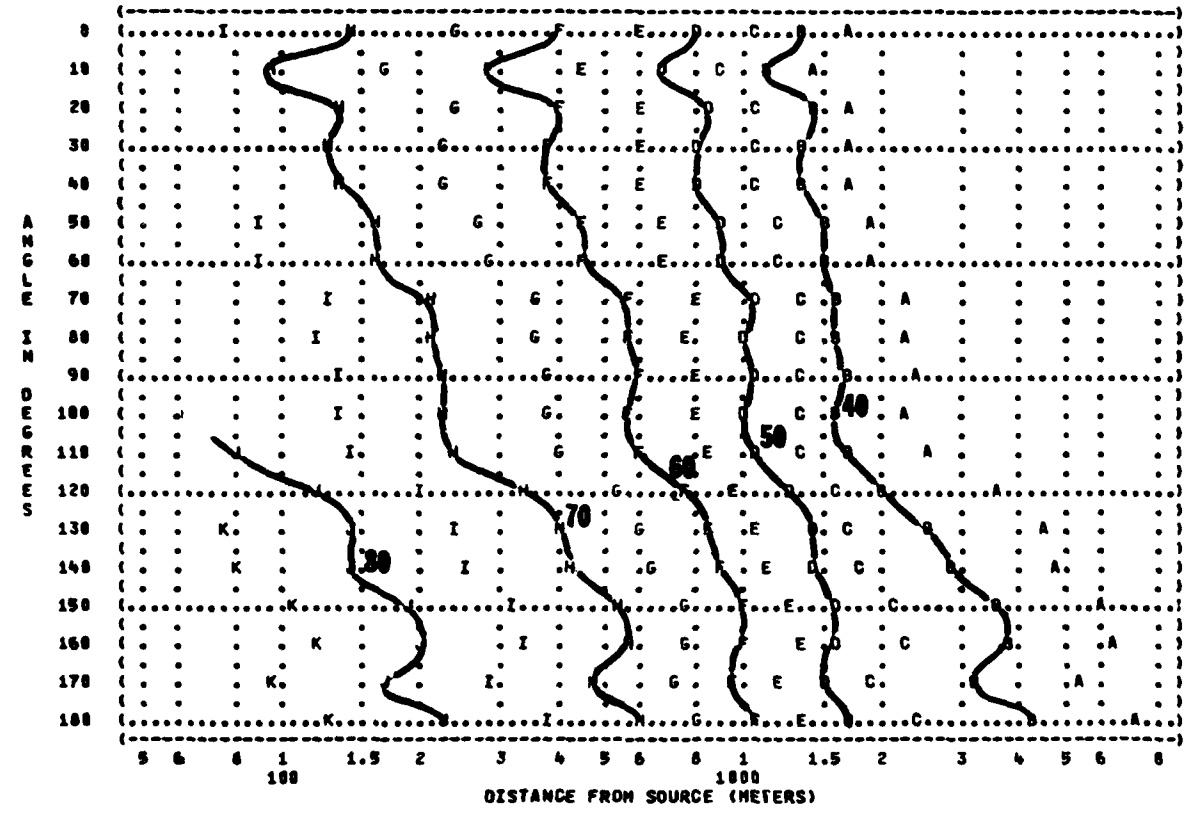


FIGURE 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION: 100 % RPM (MAX MIL PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .750 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-711-081 RUN 03 26 OCT 81 PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

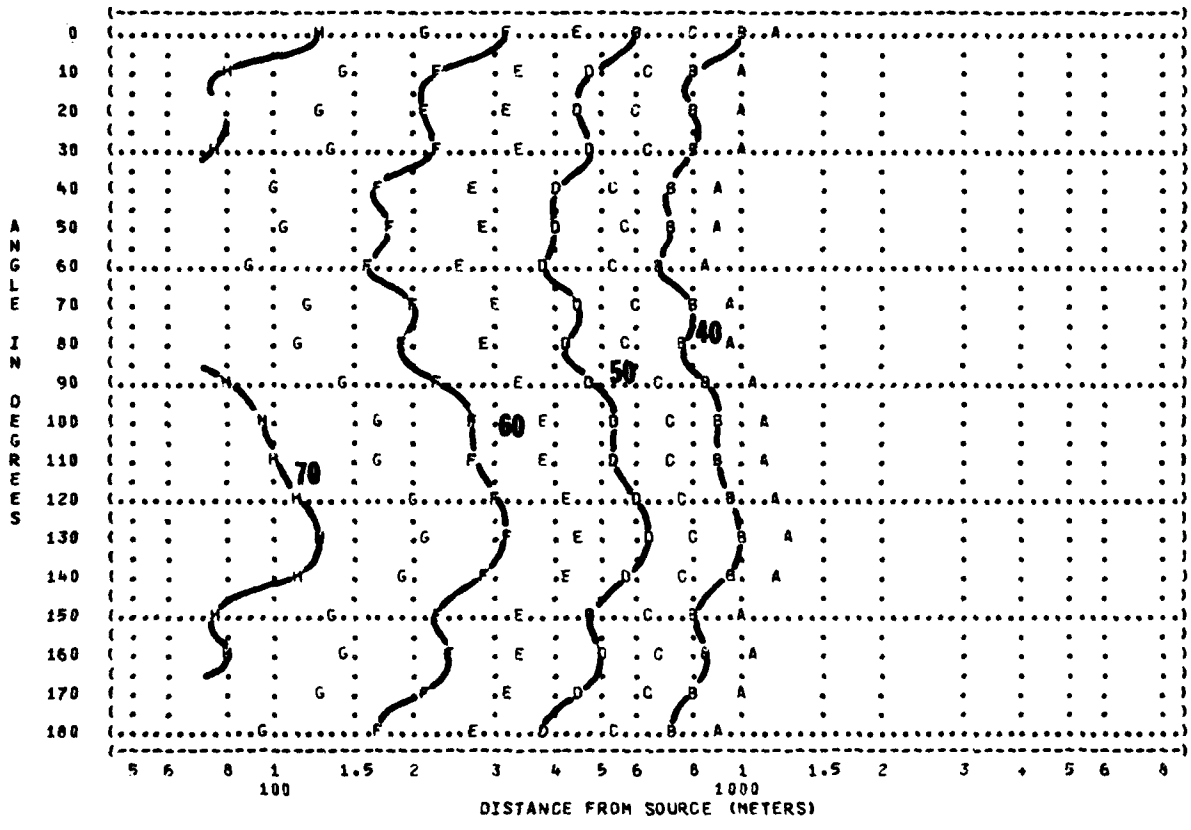


FIGURE: 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
100 % RPM (MAX MIL PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-081
RUN 03
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PAGE 22

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

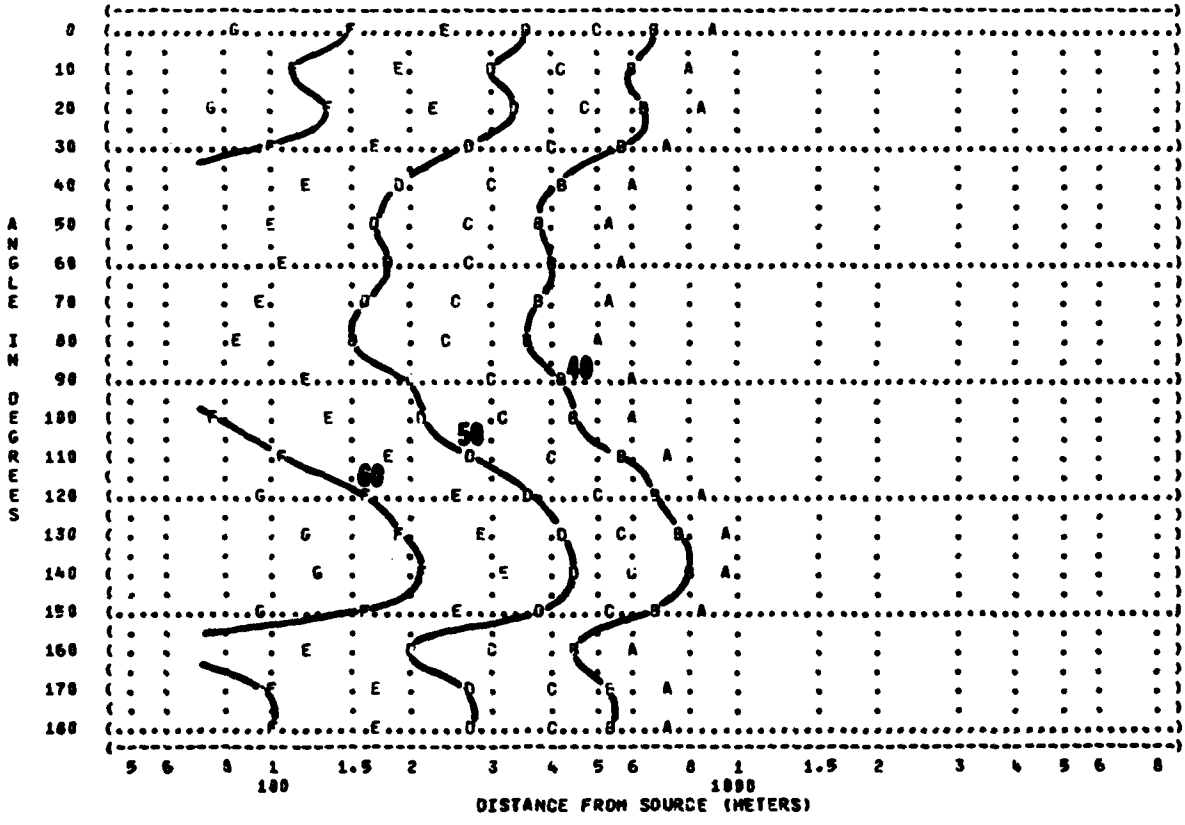


FIGURE: 9.8

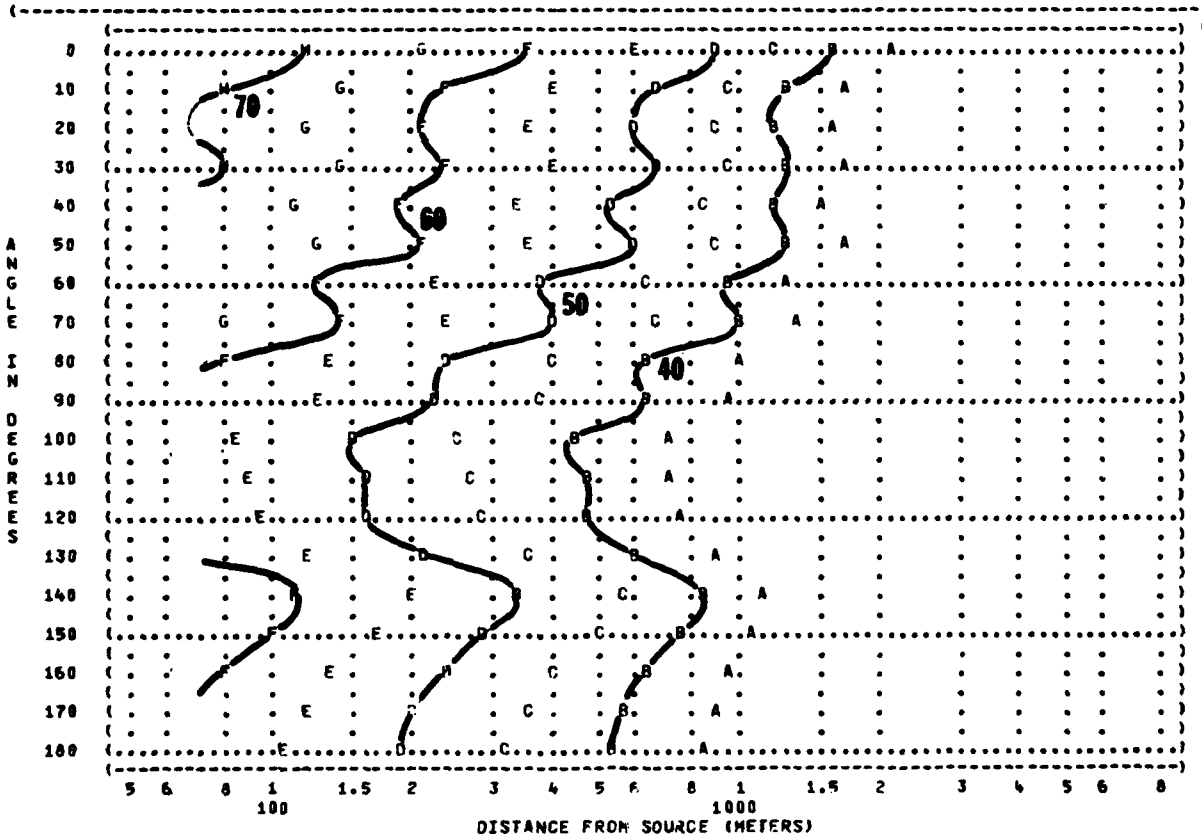
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
100 % RPM (MAX MIL PWR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-001
RUN 03
26 OCT 81
PAGE 23



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE 9.8 SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF41-A-1 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(A-7 ENGINE)
FAR FIELD NOISE

OPERATION:
100 % RPM (MAX MIL PWR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-711-081
RUN 03
26 OCT 81
PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

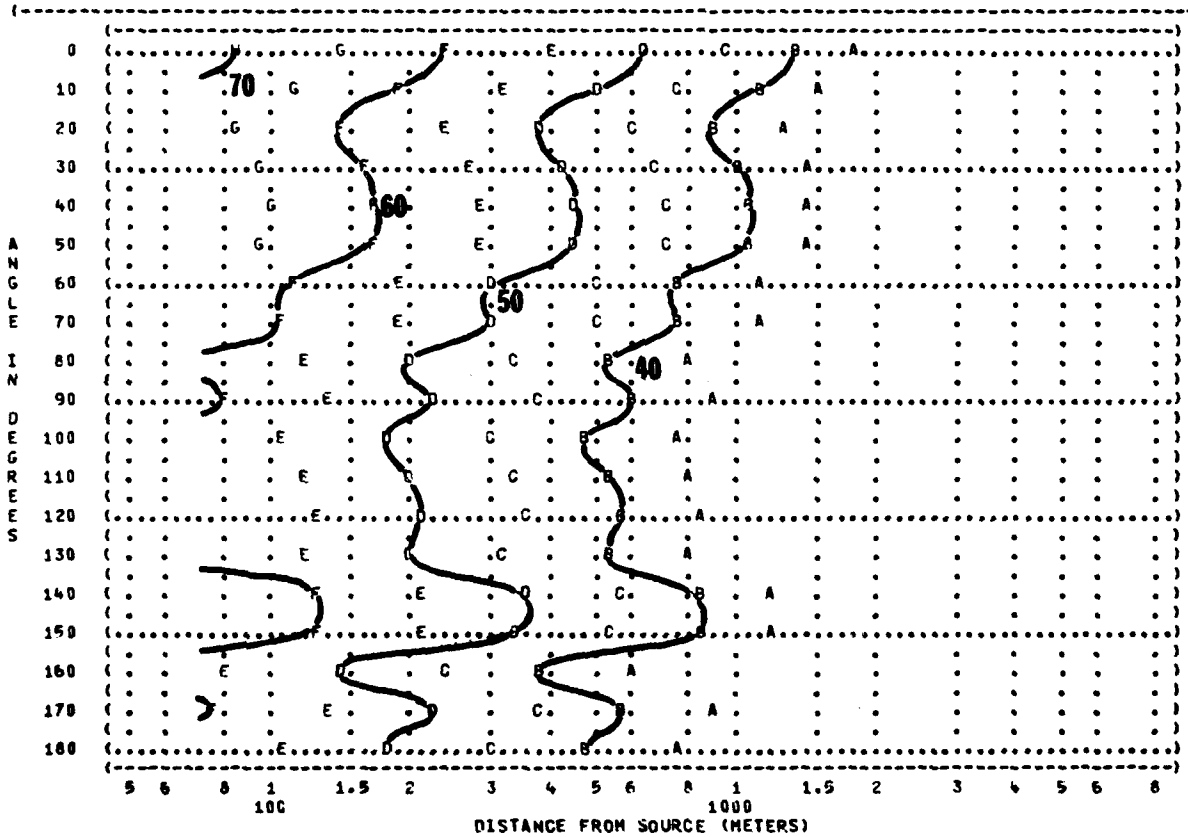


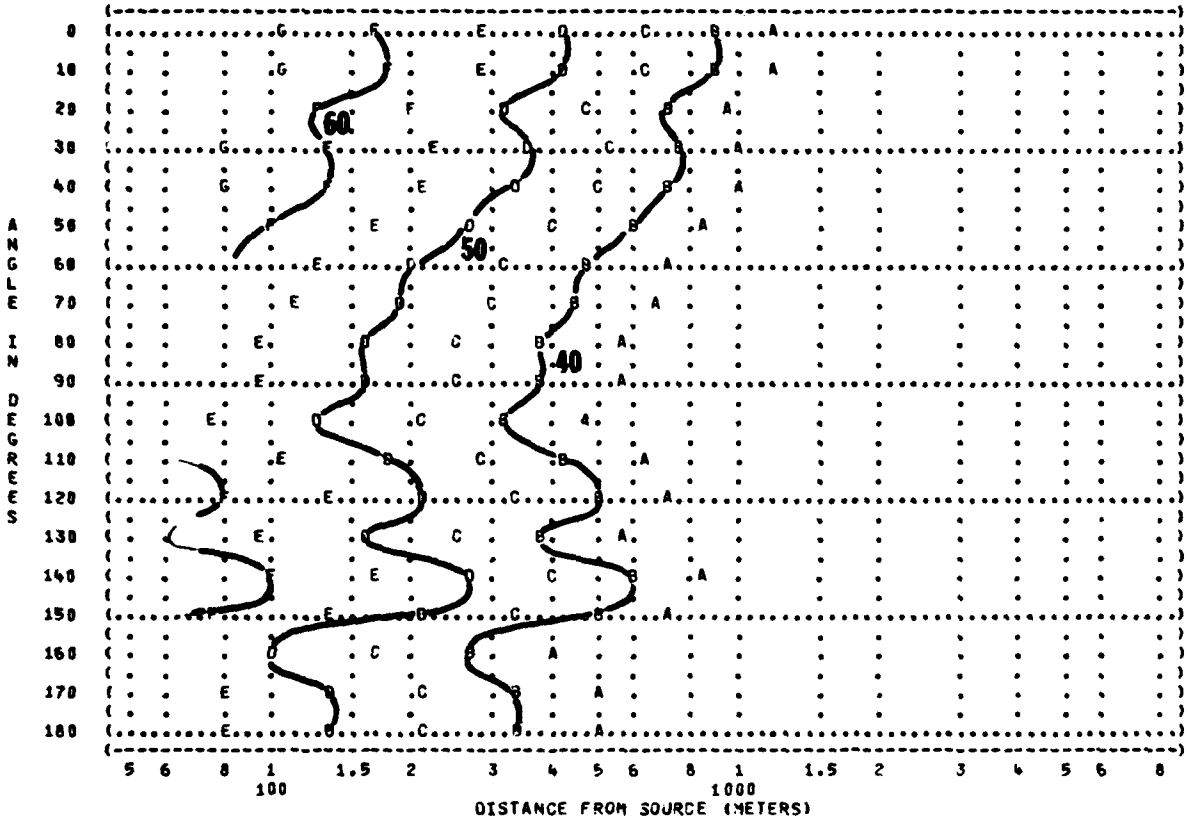
FIGURE 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION: 100 % RPM (MAX MIL PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C, BAR PRESS = .760 M HG, REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4, TEST BF-711-001, RUN 03, 26 OCT 81, PAGE 25



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

FIGURE: 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION: 100 % RPM (MAX MIL PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-711-081 RUN 03 26 OCT 81 PAGE 26

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

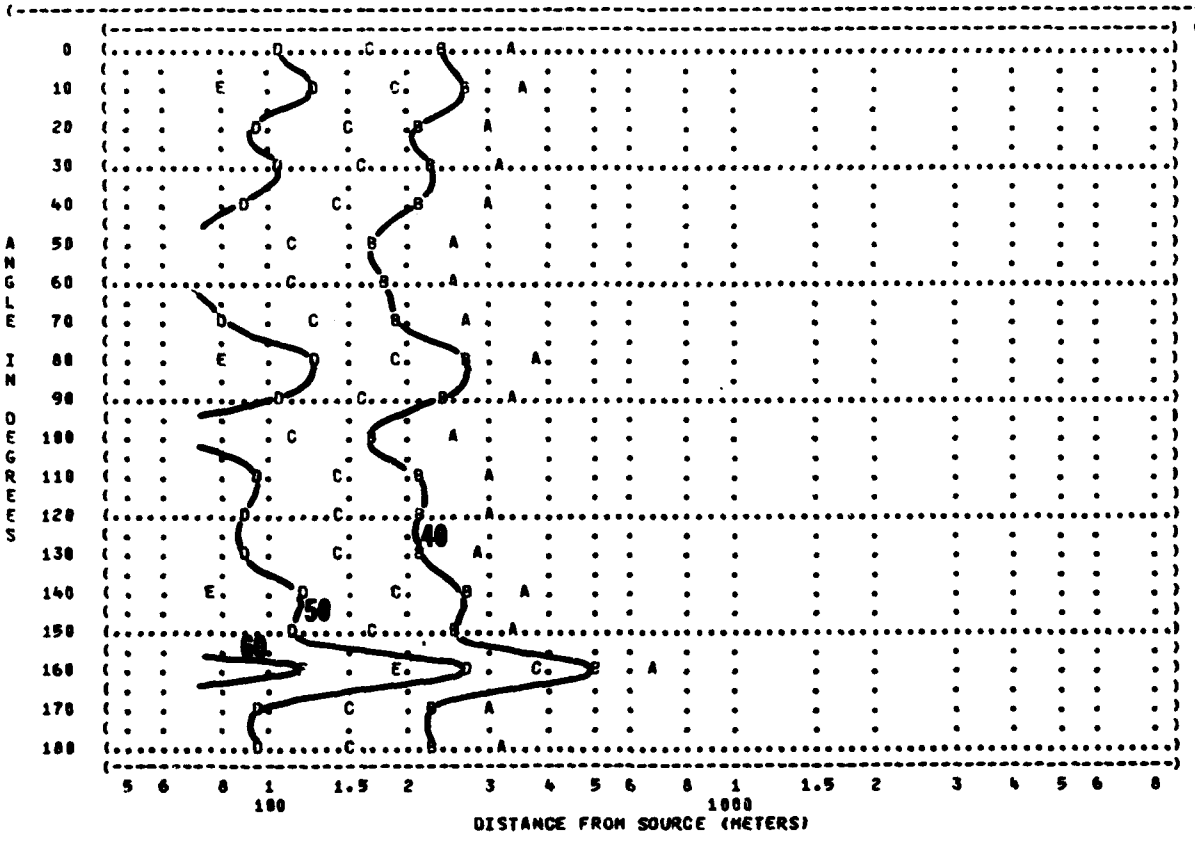


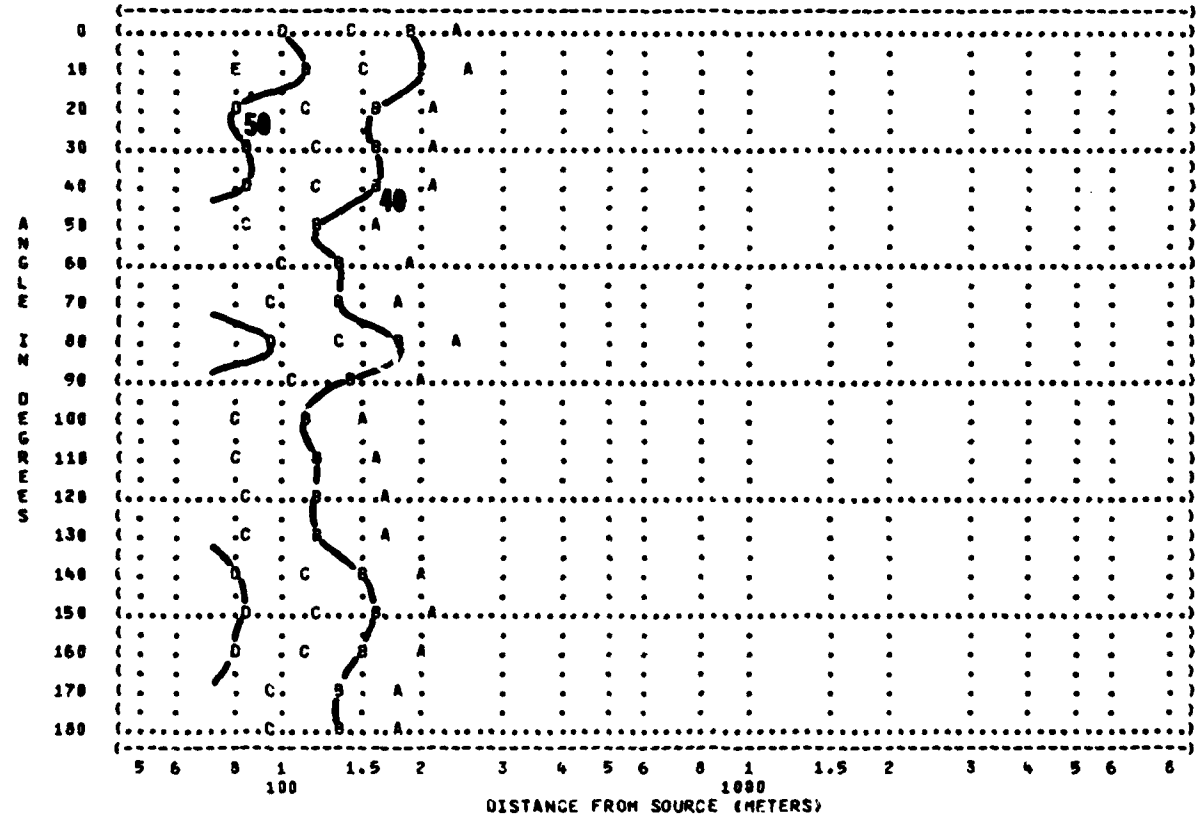
FIGURE 9.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF41-A-1 ENGINE IN THE TEXAS ASE HUSH HOUSE (A-7 ENGINE) FAR FIELD NOISE

OPERATION: 100 % RPM (MAX MIL PWR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-711-081 RUN 03 26 OCT 81 PAGE 27



POINT	DB
A	35
B	40
C	45
D	50
E	55

TABLE 10.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS J79-GE-15 ENGINE IN THE ASE-TEXAS INC. HUSH-HOUSE, GROUND RUNUP KELLY AFB TEXAS, TEST #BF-712-001 (Engine For The F-4 Aircraft)

Engine Operation	Single Engine	
85%	85	% RPM
	2980	LBS/HR FF
	669	EGT
Military Power	100	% RPM
	8349	LBS/HR FF
	1121	EGT
Meteorology		
Temperature	31	C
Bar Pressure	.745	M Hg
Rel Humidity	53	%
Wind - Speed	4	M/Sec (8 Kts)
- Direction	190	Deg

TABLE: **10.2**

MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 01
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PAGE 2

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 31 C
BAR PRESS = .745 M HG
REL HUMID = 53 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	67<	67<	65<	67<	64<	68<	65<	67<	74	75	73	74	75	73	74	74	74	74	74
16	65<	62<	63<	65<	62<	65<	66<	68	75	76	75	76	75	74	75	76	76	76	76
20	62<	60<	61<	64	63<	66	65	67	71	75	76	75	76	75	75	75	75	75	75
25	55<	53<	57<	56<	59<	60<	62<	64	69	71	73	70	74	73	75	76	76	76	76
31.5	53<	52<	49<	54<	54<	56<	56<	58	64	64	65	66	67	71	71	71	71	71	71
40	53<	51<		53<	53<	50<	54<	56<	63	62	59<	62	63	64	67	70	70	70	70
50	51<		48<	50<		54<	53<	57<	63	60	56<	57<	59<	62	64	65	65	65	65
63	51<	46<	49<	51<	50<	53<	50<	54<	59	59	55<	57	55<	57	63	69	69	69	69
80	53	51<	46<	50<	49<	52<	50<	50<	57	57	58	58	61	56	57	59	59	59	59
100	54<	53<	50<	51<	53<	53<	55	49<	55	60	57	55	55	55	57	60	60	60	60
125	55<	51<		50<	51<	52<	53<	49<	52<	59<	56<	53<	55<	60	60	61	61	61	61
160	55	51	47<	49	52	53	52	48<	51	54	51	52	52	51	58	65	65	65	65
200	51	50	50	49	46	51	46	42<	44<	48	48	49	51	51	54	56	56	56	56
250	52	51	53	49	50	51	44<	43<	44<	47	47	45<	48	51	51	51	51	51	51
315	49	44	45	46	43	47	38<	40<	42	41<	41<	41<	44	45	47	48	48	48	48
400	45	45	40	49	38<	44	36<	40	43	38<	39<	37<	45	46	48	49	49	49	49
500	42	38<	40	50	37<	49	35<	43	45	37<	38<	34<	44	44	45	47	47	47	47
630	41	36<	37<	50	36<	53	35<	45	39<	39	37<	35<	41	42	44	46	46	46	46
800	41	38<	36<	53	36<	49	36<	47	40<	43	39<	38<	42	43	45	47	47	47	47
1000	37<	36<	34<	48	37<	46	39	51	42	39	37<	37<	42	43	45	47	47	47	47
1250	34<	33<	34<	44	35<	44	35<	46	39	36	33<	34<	39	40	42	43	43	43	43
1600	39<	38<	38<	40<	39<	46	36<	46	39<	37<	32<	33<	39<	43	42	42	42	42	42
2000	51	51	50	51	51	47	44	46	44	42	38<	38<	40<	45	43	41	41	41	41
2500	53	53	52	53	52	49	45	43	47	45	40	41	41	43	42	41	41	41	41
3150									38	36	31	32	34	40	41	42	42	42	42
4000									37	35	31	31	33	36	38	40	40	40	40
5000									40	39	31	31	32	36	38	40	40	40	40
6300									36	35	30	30	31	34	36	37	37	37	37
8000									36	34	31	31	30	33	35	36	36	36	36
10000									34	32	29	30	28	32	32	33	33	33	33
OVERALL	71	70	69	71	69	72	71	73	79	81	81	81	82	81	82	83	83	83	83

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 10.2

MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATIONS:
OMEGA 1.4
TEST BF-712-801
RUN 02
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT: J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 31 C, BAR PRESS = .745 M HG, REL HUMID = 53 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	78	74	76	74	77	77	74	76	78	84	83	87	83	84	85	86	86	86	86
16	76	73	73	76	76	77	76	80	80	88	87	89	88	87	89	90	90	90	90
20	72	71	73	74	75	77	75	79	79	88	87	88	90	88	88	88	88	88	88
25	64	63	66	67	71	72	72	76	77	85	88	85	87			88	88	88	88
31.5	63	59	60	64	65	67	63	68	70	78	82	81	84	84	86	87	87	87	87
40	60	64	64	63	66	65	64	67	67	72	76	77	80	83	85	86	86	86	86
50	61	56<	59	56<	62	62	62	65	65	69	70	71	74	77	79	82	82	82	82
63	55<	54<	53<	55<	54<	56	54<	59	59	66	70	71	73	72	74	76	76	76	76
80	56	54	51<	52<	53	53	52<	55	58	66	67	66	69	69	69	69	69	69	69
100	50	56	54<	56	56	55	53<	55	55	63	67	65	66	65	66	66	66	66	66
125	57<	54<	53<	52<	53<	54<	50<	53<	51<	61	62	63	63	62	62	61	61	61	61
160	57	53	50	53	53	53	50	50	48<	56	60	60	62	66	63	59	59	59	59
200	53	50	49	49	49	50	46	46	46	55	61	59	65	66	63	60	60	60	60
250	53	50	52	50	51	51	45<	46	45<	53	59	56	62	66	65	64	64	64	64
315	50	48	48	45	45	47	40<	40<	40<	49	53	51	55	56	56	56	56	56	56
400	50	48	46	46	44	44	42	42	38<	48	50	48	55	53	53	53	53	53	53
500	54	55	53	53	52	53	50	54	45	51	51	50	54	52	53	54	54	54	54
630	54	52	50	51	51	54	50	49	46	54	52	52	55	53	54	56	56	56	56
800	54	53	49	52	50	52	52	49	48	56	55	52	56	53	54	56	56	56	56
1000	51	52	48	50	50	50	47	48	43	51	54	50	54	52	54	56	56	56	56
1250	51	51	49	50	49	49	49	46	43	51	51	52	54	54	56	58	58	58	58
1600	51	51	50	50	49	49	48	46	44	50	49	51	55	54	55	57	57	57	57
2000	47	47	45	46	45	42	41	41	41<	46	48	51	55	54	54	53	53	53	53
2500	44	42	40	42	41	39	37	36	38	45	47	47	53	50	50	51	51	51	51
3150	47	43	39	37	39	36	35	34	38	44	45	46	50	48	50	51	51	51	51
4000	48	45	39	36	37	35	32	33	37	42	42	43	43	46	48	49	49	49	49
5000	43	42	36	36	38	36	33	33	37	43	41	44	48	45	47	48	48	48	48
6300	47	40	36	35	38	35	32	33	36	41	40	43	48	44	45	47	47	47	47
8000	50	43	36	37	38	37	35	38	39	41	39	39	46	43	44	45	45	45	45
10000	50	42	37	35	36	34	31	32	34	38	36	42	45	39	40	41	41	41	41
OVERALL	81	78	80	80	81	82	81	84	85	93	93	94	95	93	94	96	96	96	96

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

FIGURE: NORMALIZED FARFIELD NOISE LEVELS

10.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.6
TEST 8F-712-881
RUN 01
26 OCT 81
PAGE 6

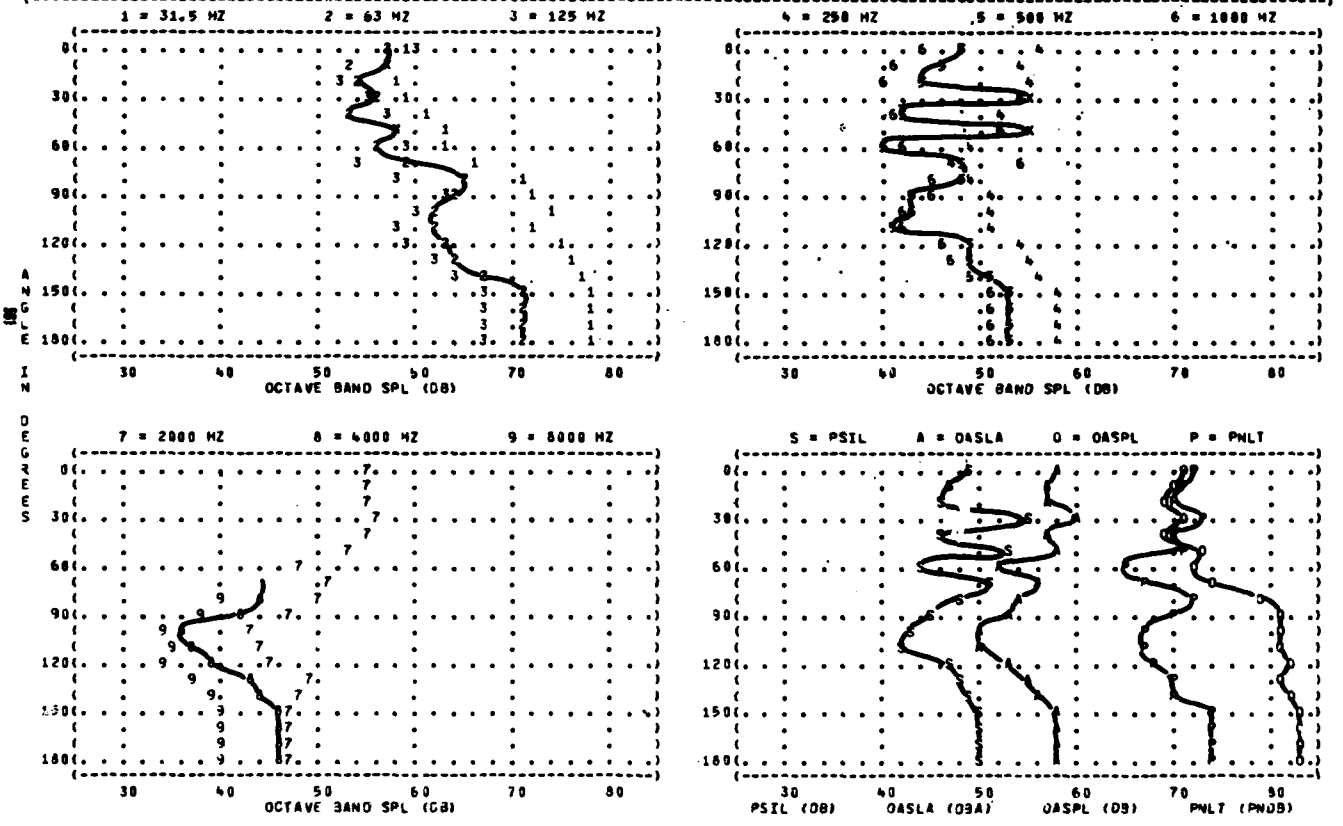


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

10.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-881
RUN 02
26 OCT 81
PAGE 6

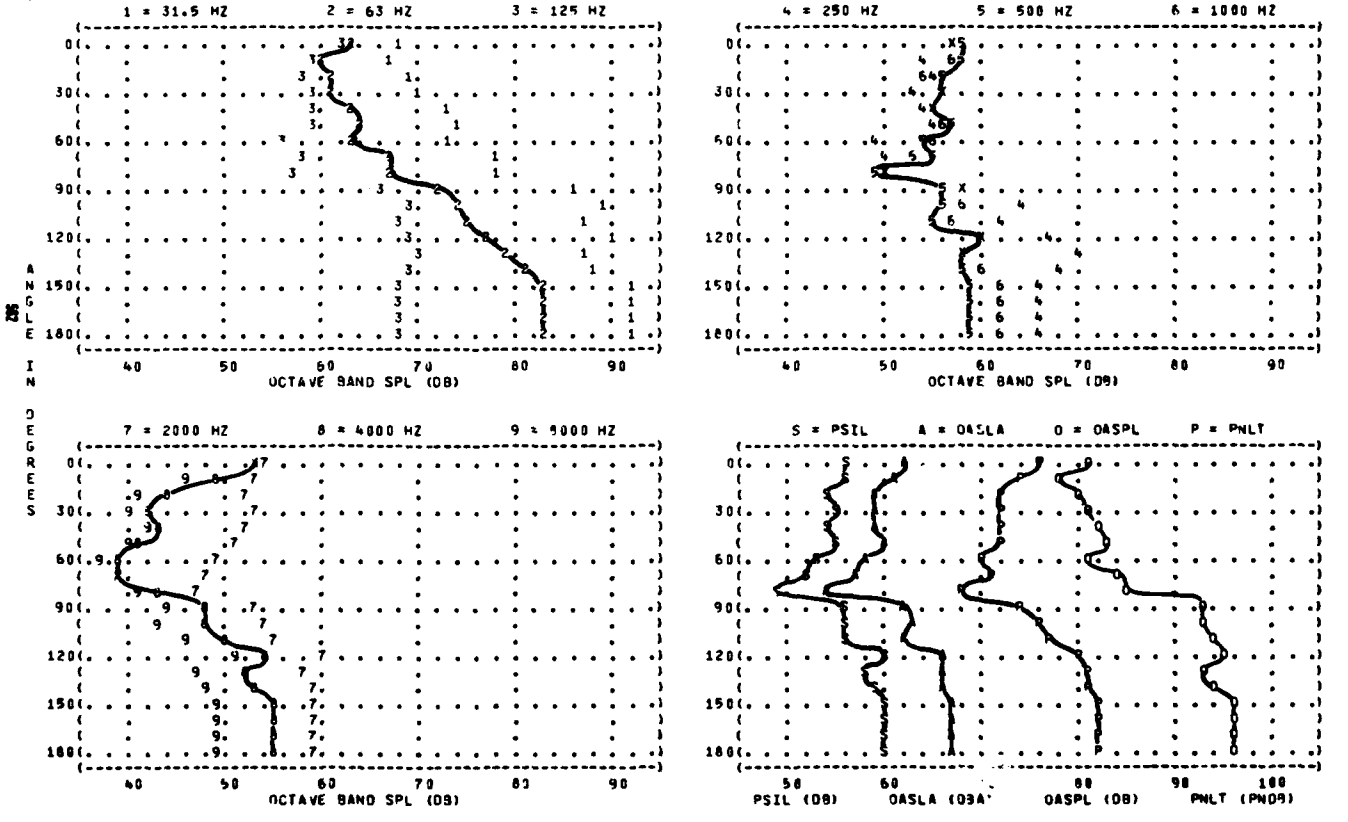


FIGURE: 10.2 OVERALL SOUND PRESSURE LEVEL (OASPL)
EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 01
26 OCT 81
PAGE 13

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

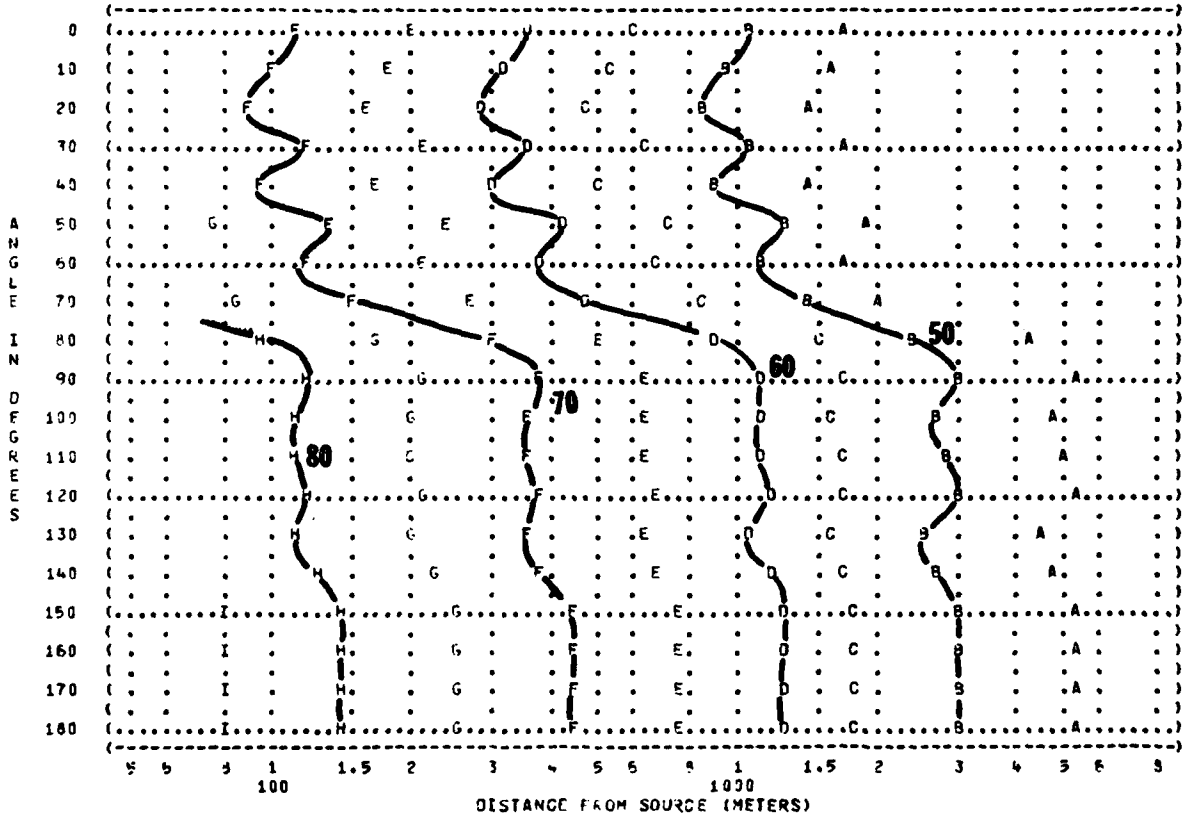


FIGURE: 10.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (D3)

IDENTIFICATION:
OMEGA 1.4
TEST SF-712-001
RUN 02
26 OCT 81
PAGE 13

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95

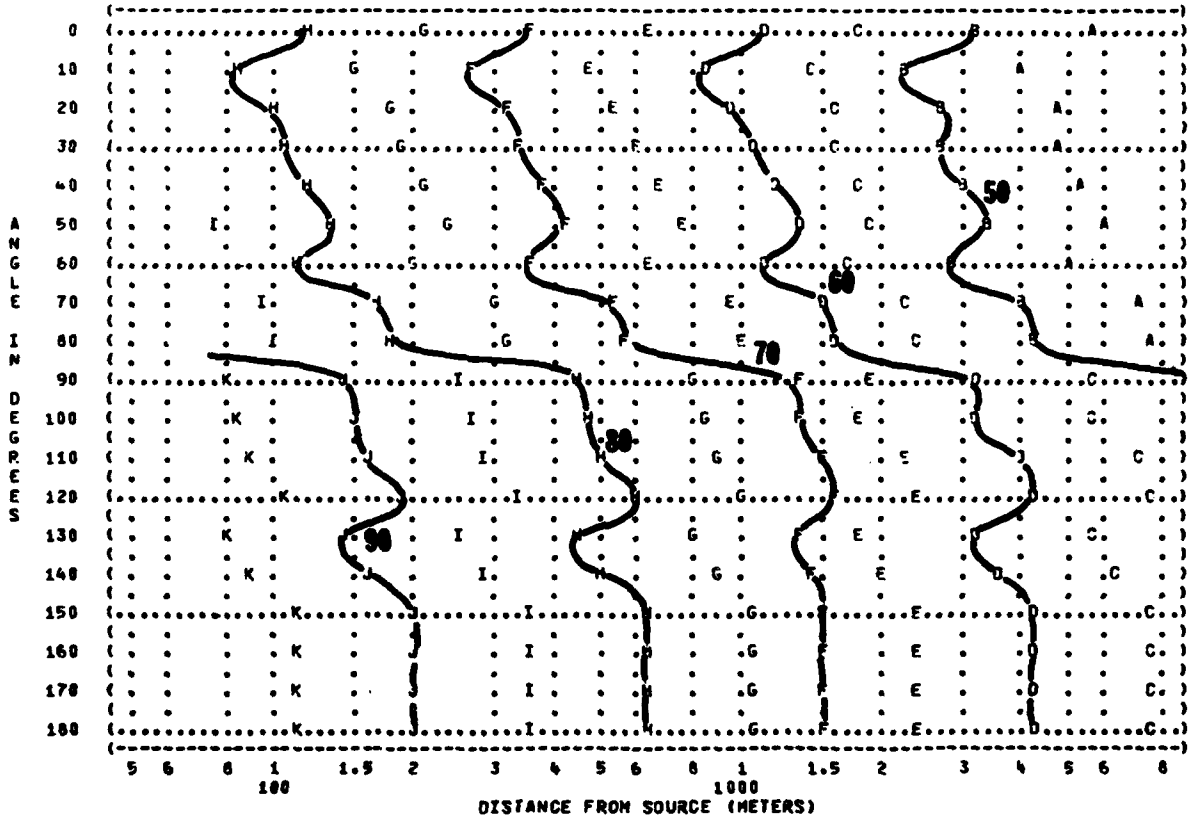


FIGURE 10.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-881
RUN 01
26 OCT 81
PAGE 14

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

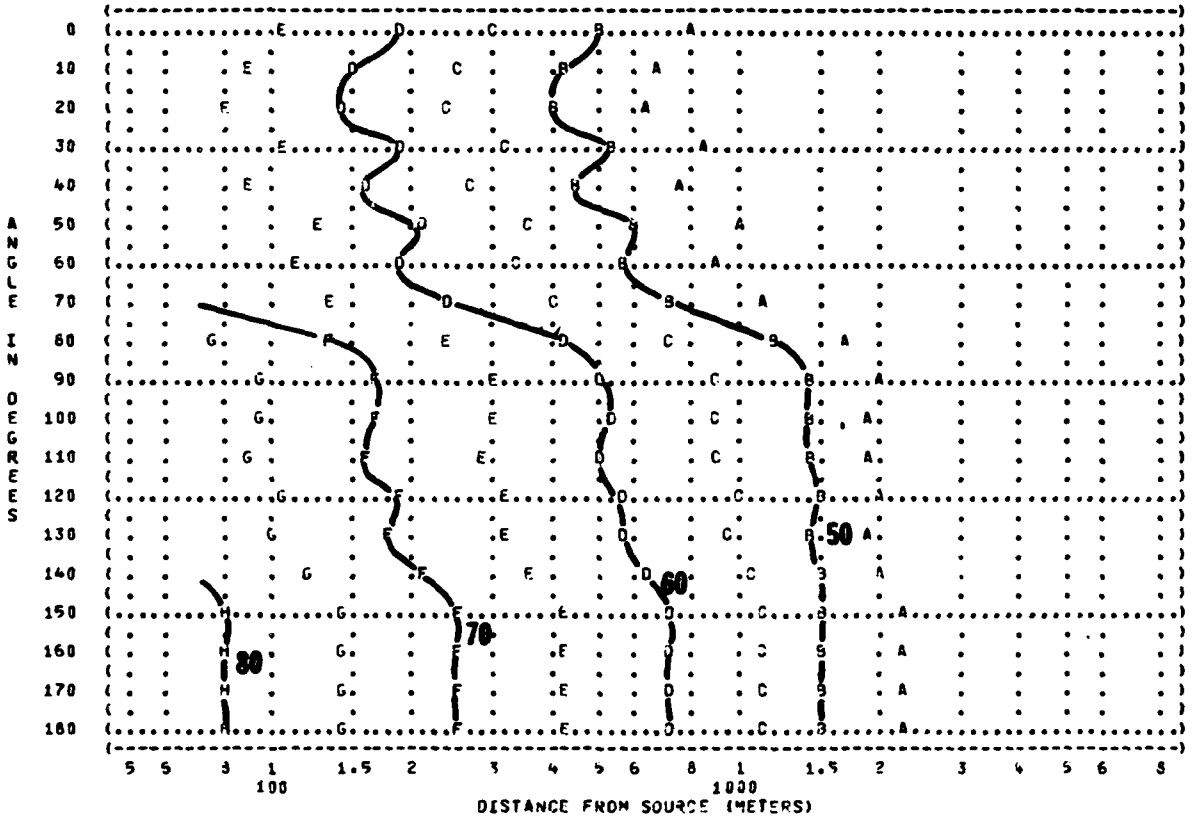


FIGURE: 10.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 02
26 OCT 81
PAGE 14

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90

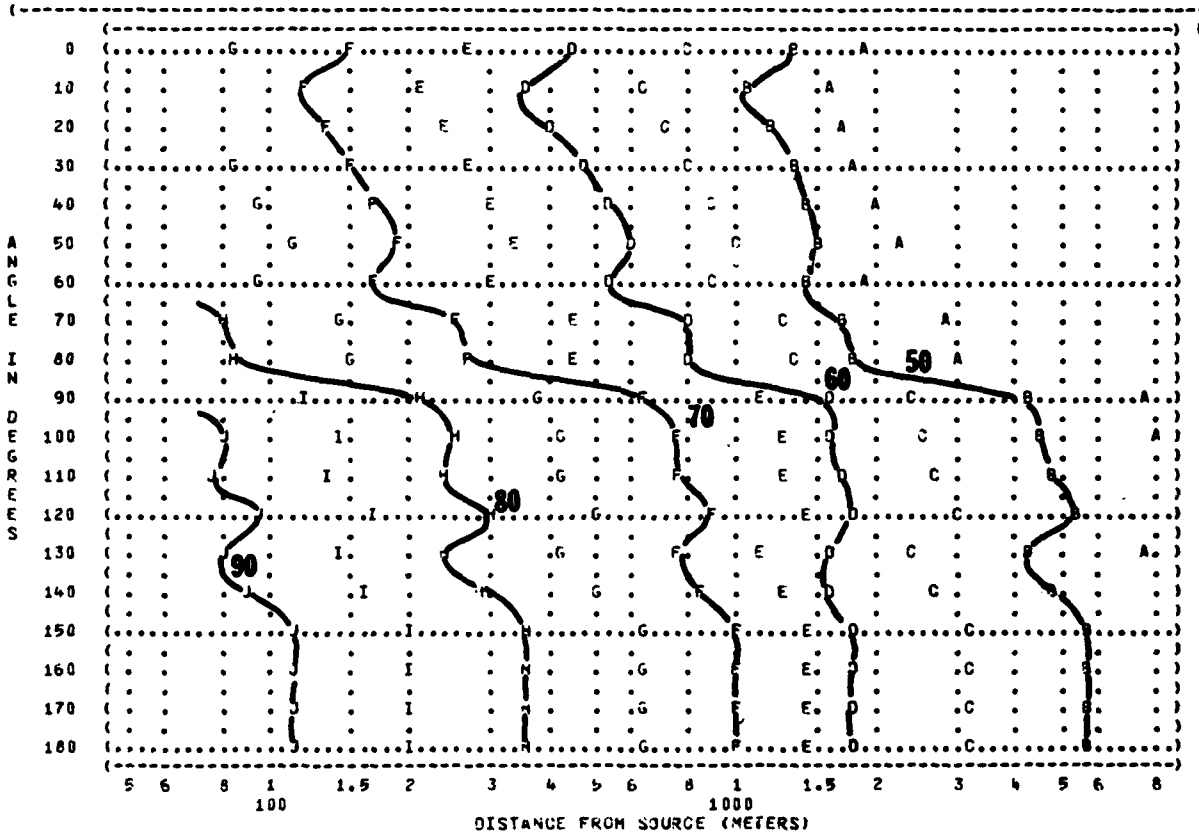


FIGURE: 10.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.44
TEST AF-712-001
RUN 01
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE)
FAR FIE D NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60

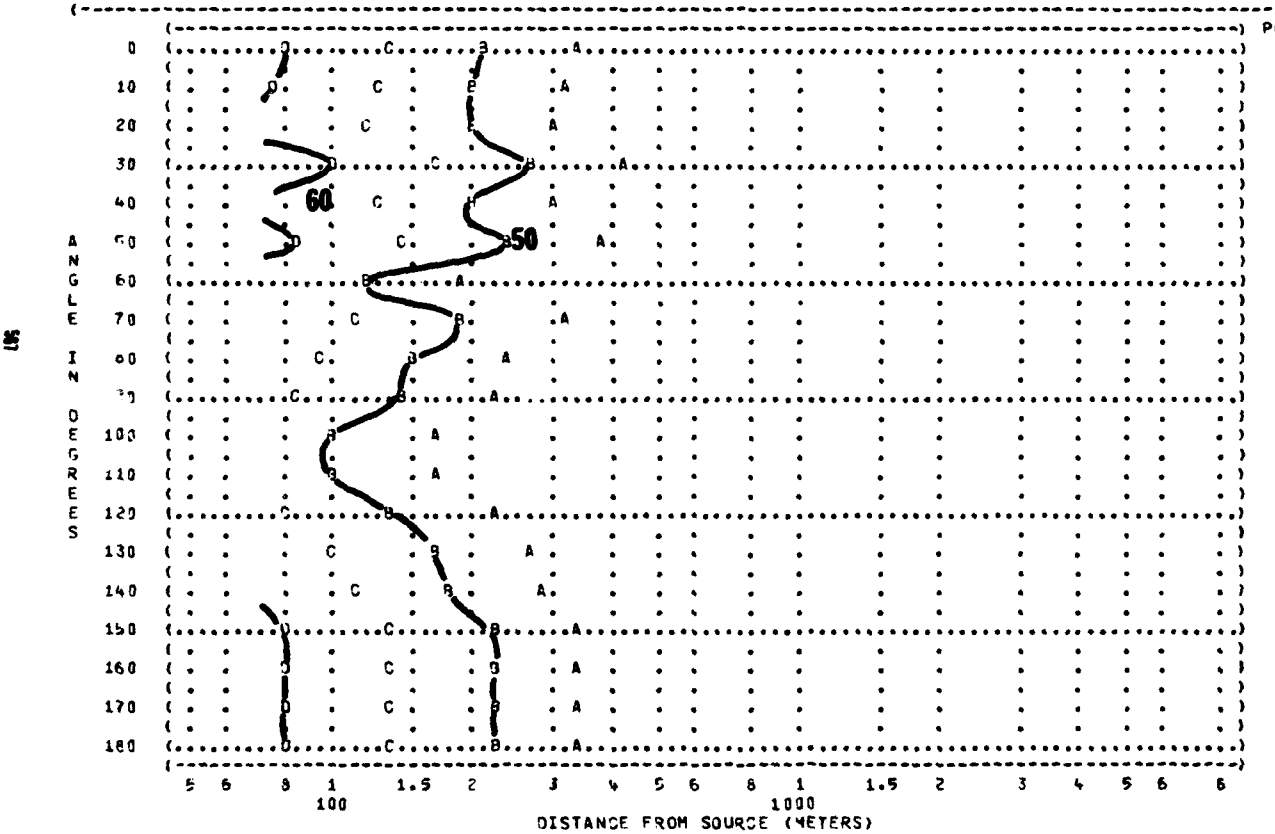


FIGURE: 10.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (EdA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 02
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT: J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	OBA
A	45
B	50
C	55
D	60
E	65

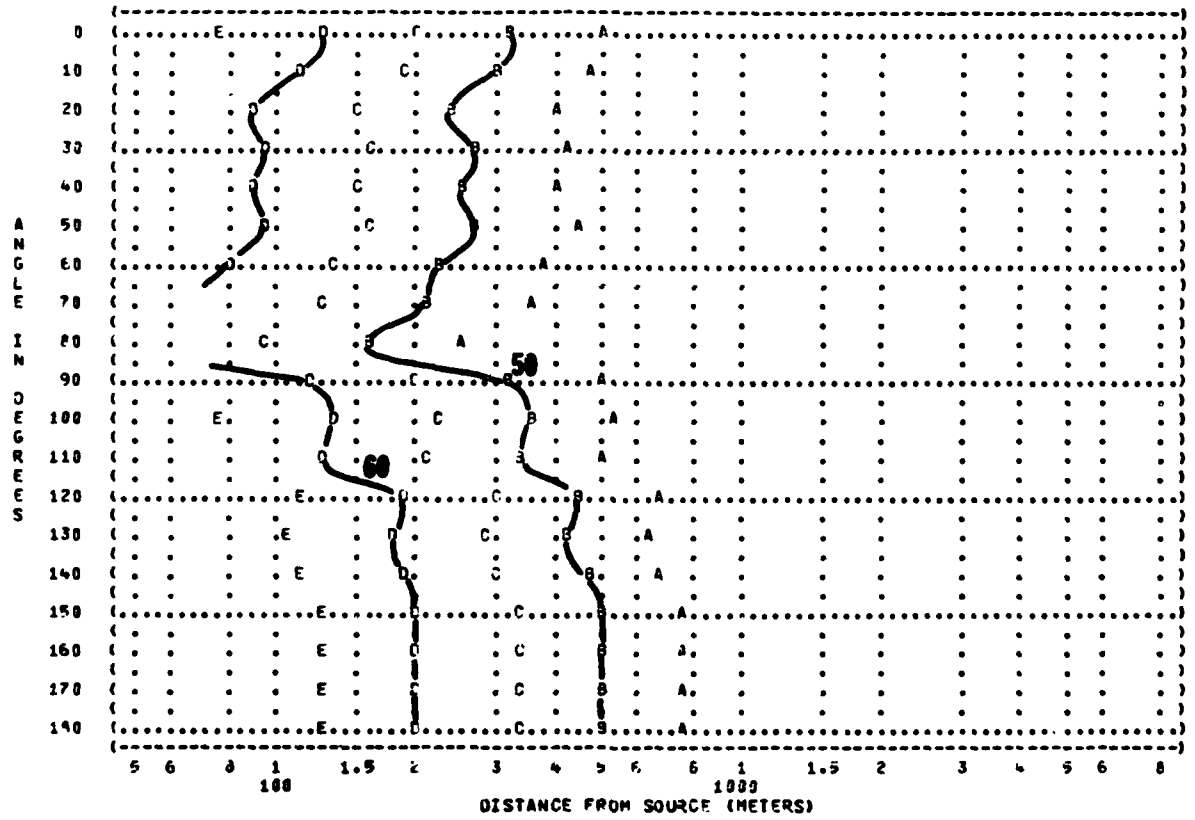


FIGURE: 10.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 01
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75

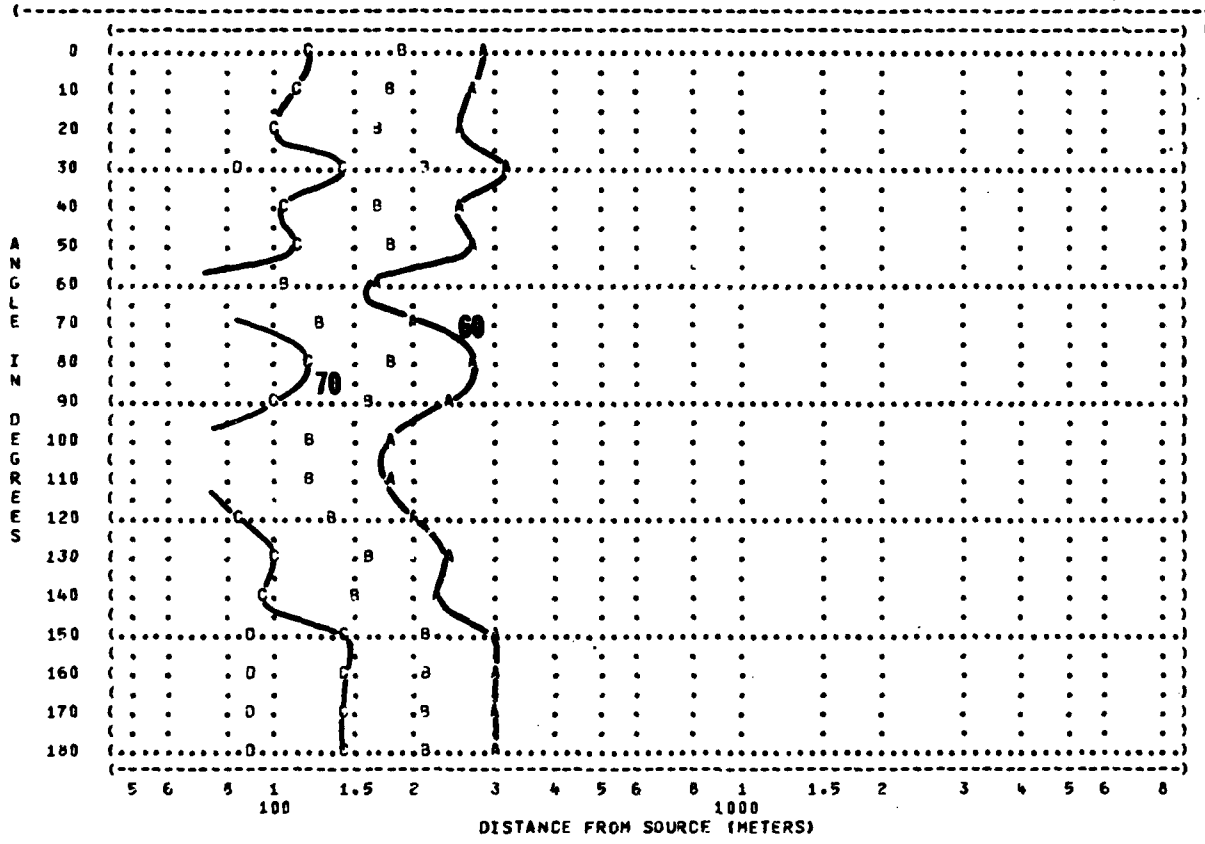


FIGURE: PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT)
EQUAL LEVEL CONTOURS (PNDB)

10.5

IDENTIFICATION:
OMEGA 1.4
TEST 8F-712-001
RUN 02
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAP PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85

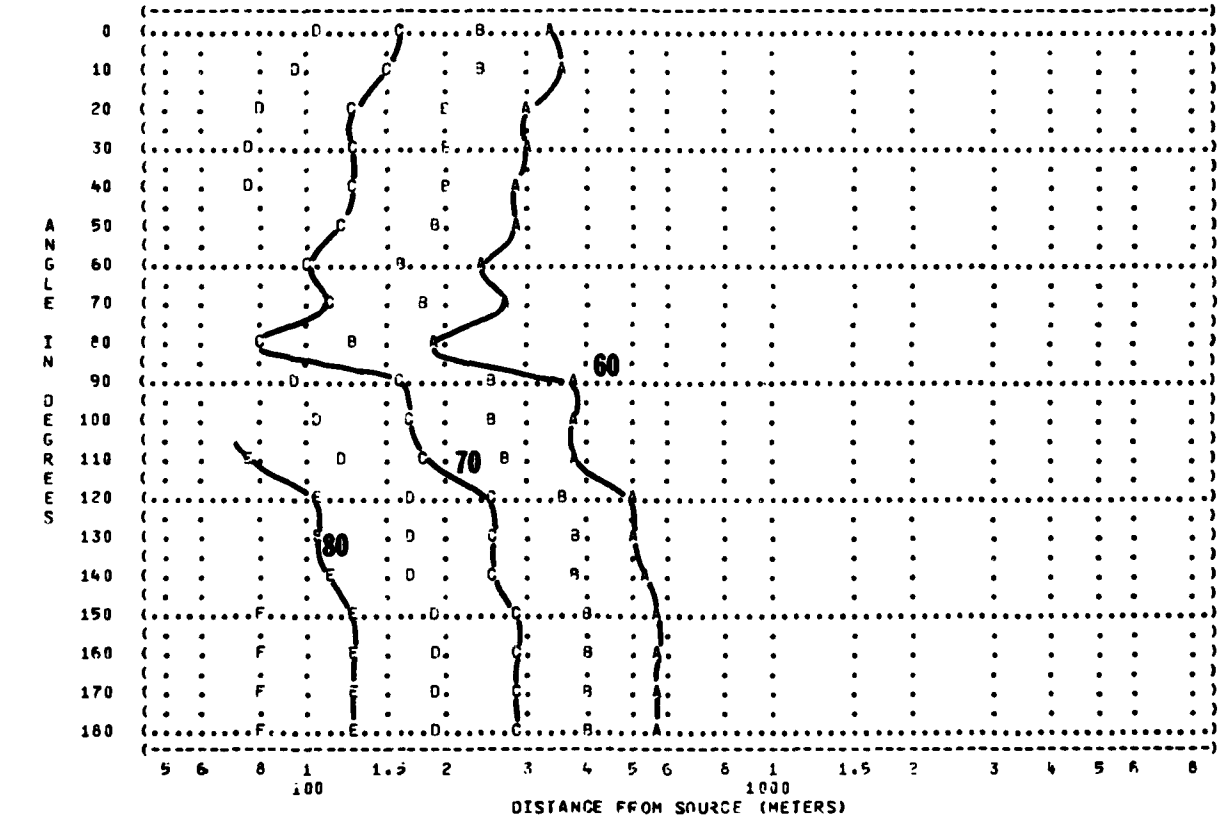


FIGURE: 10.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (C3)

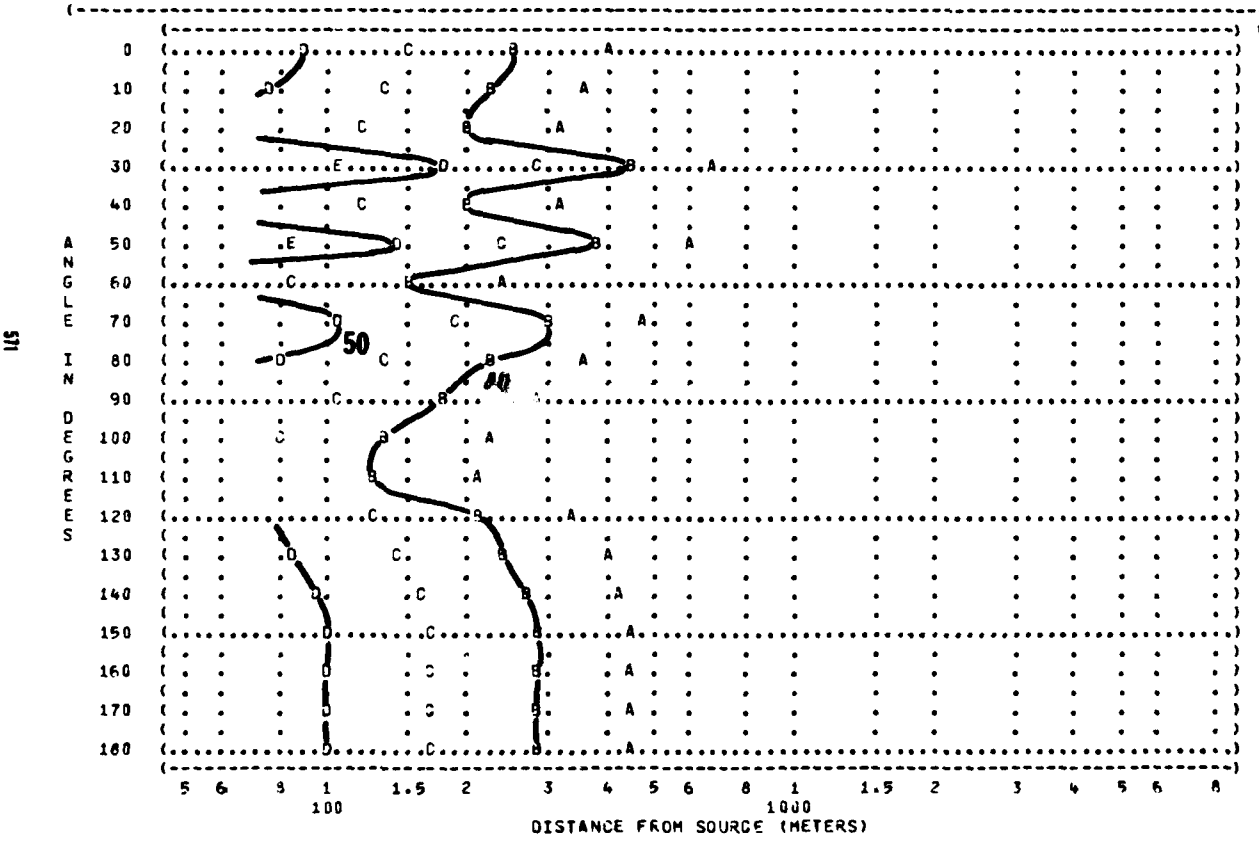
IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 01
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT: J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55



511

FIGURE: 10.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

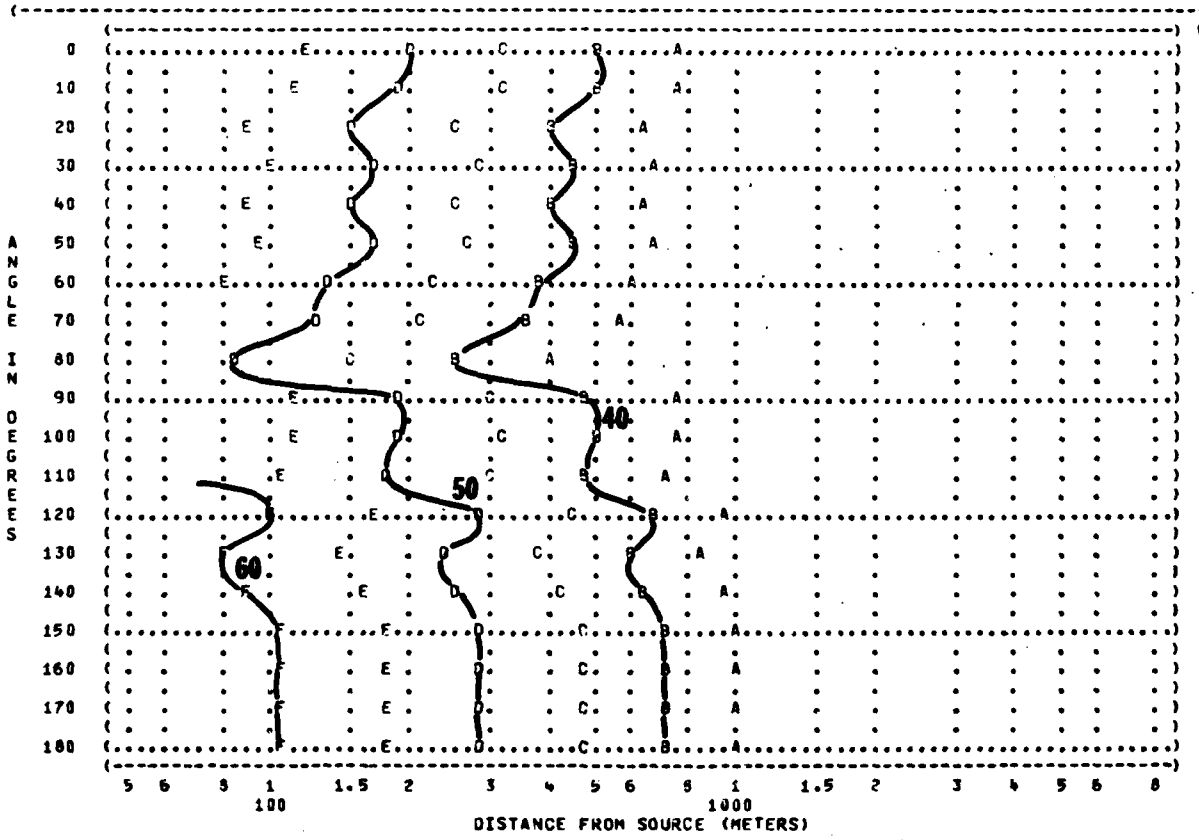
IDENTIFICATION:
OMEGA 1.4
TEST BF-717-001
RUN 02
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60



AD-A118 773 AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATT--ETC F/G 20/1
USAF BIOENVIRONMENTAL NOISE DATA HANDBOOK, VOLUME 172, HUSH-HOU--ETC(U)
JUL 82 R A LEE, T H RAU, C JONES
UNCLASSIFIED AMRL-TR-75-50-VOL-172 NL

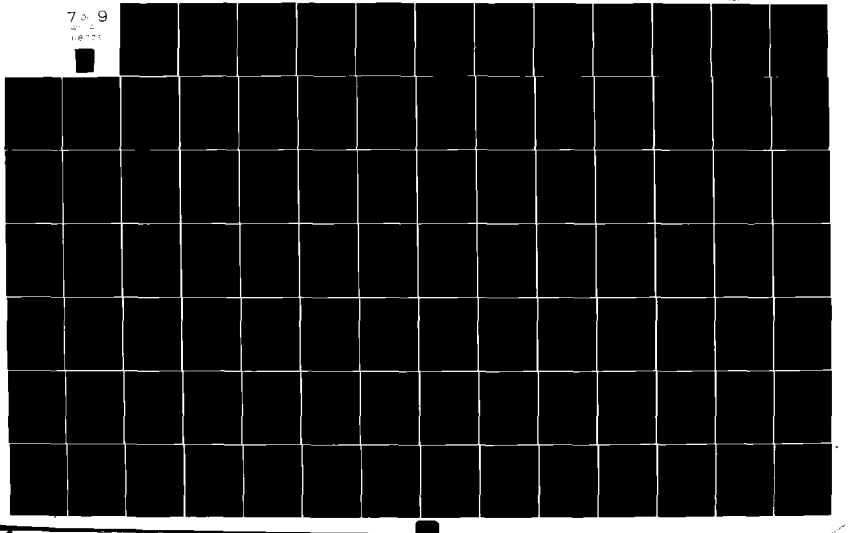


FIGURE: 10.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-881
RUN 81
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

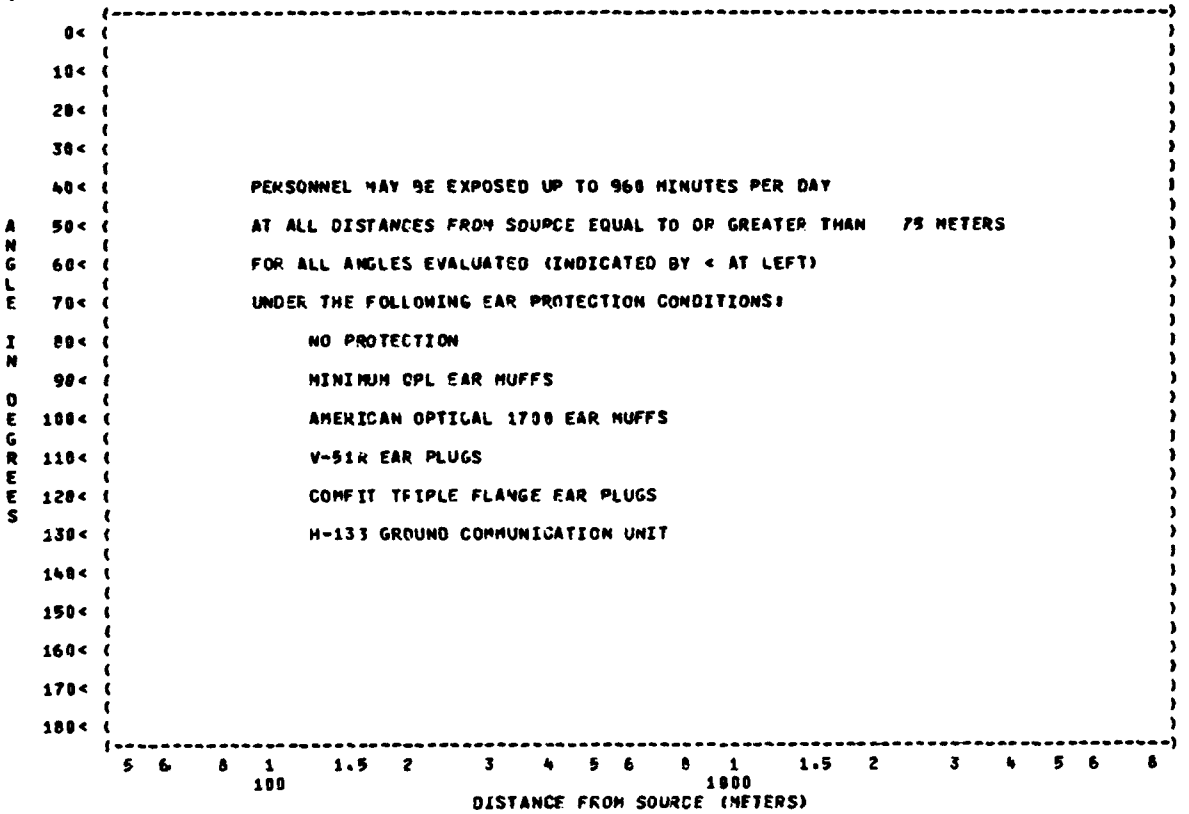


FIGURE: 10.7	MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)		IDENTIFICATION: OMEGA 1.4 TEST BF-712-001 RUN 02 26 OCT 81 PAGE 7
NOISE SOURCE/SUBJECT: J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE	OPERATION: MILITARY POWER (100%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %	

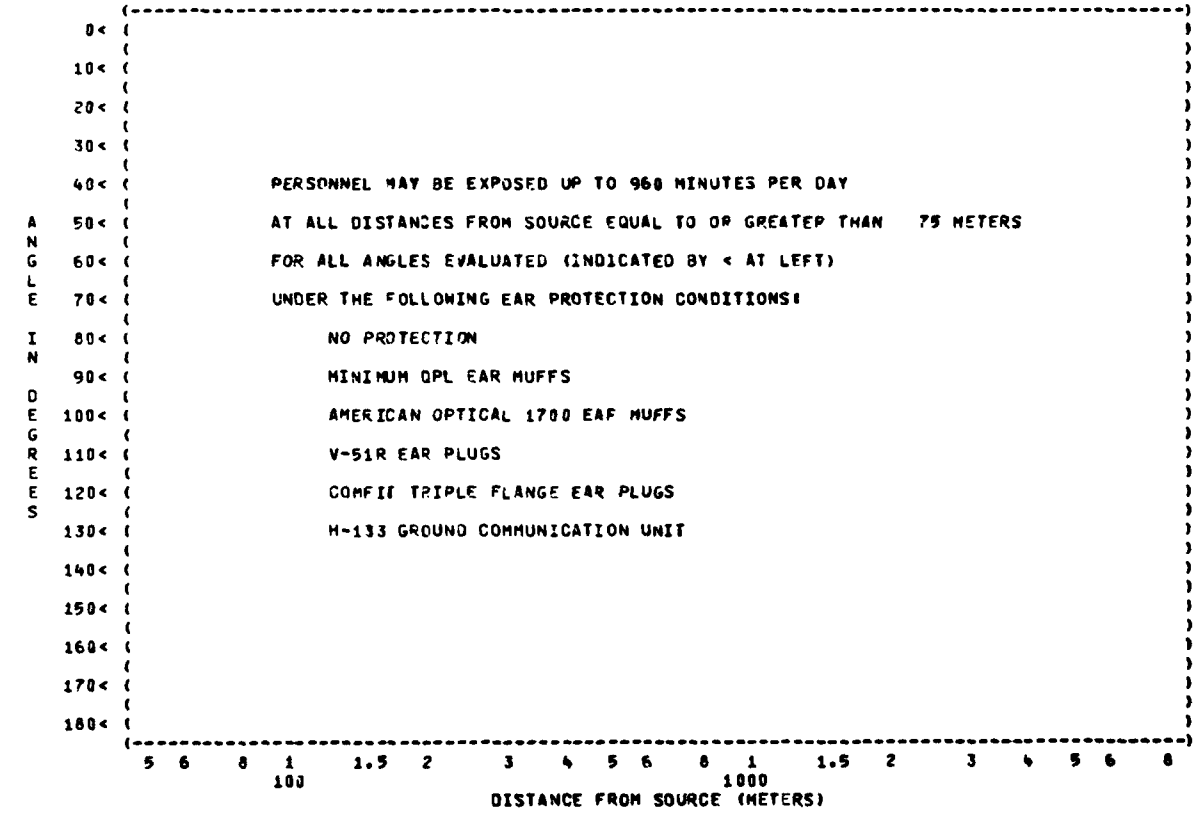


FIGURE: **10.8** SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 01
26 OCT 81
PAGE 19

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

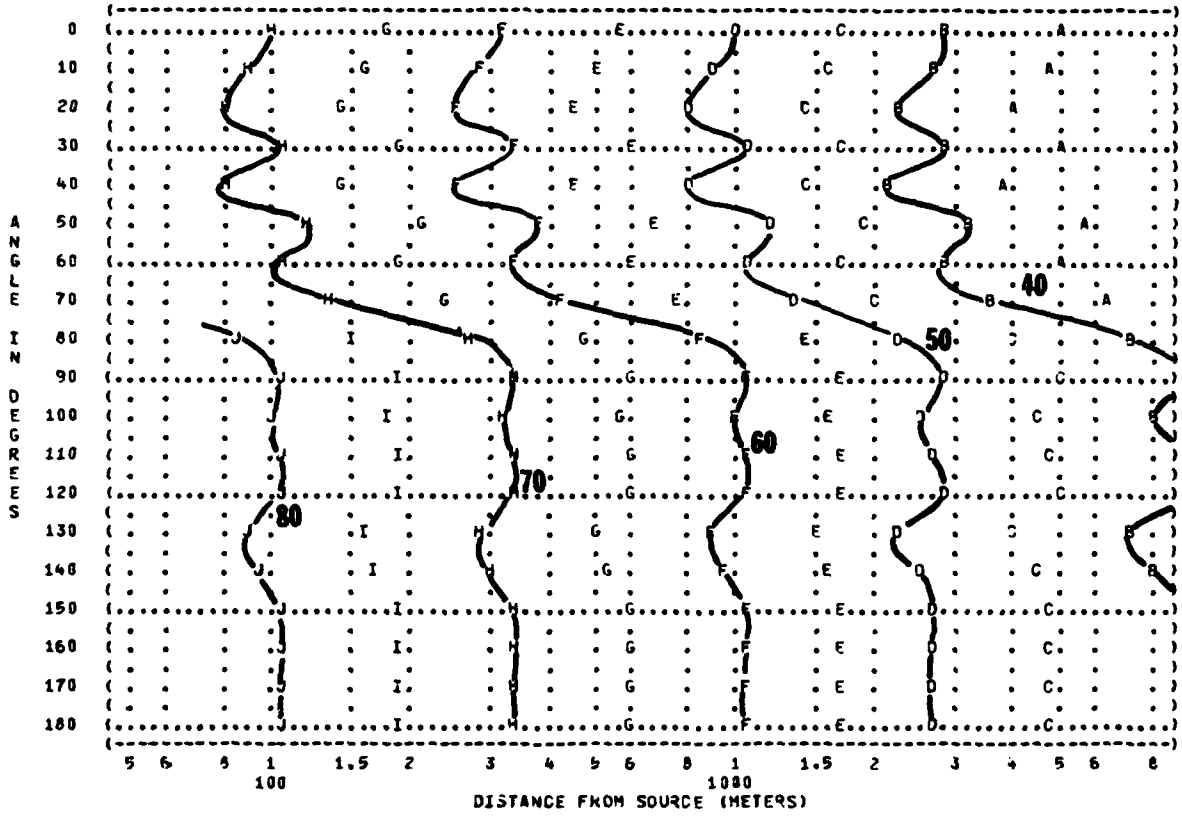


FIGURE 10.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 01
26 OCT 81
PAGE 19

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

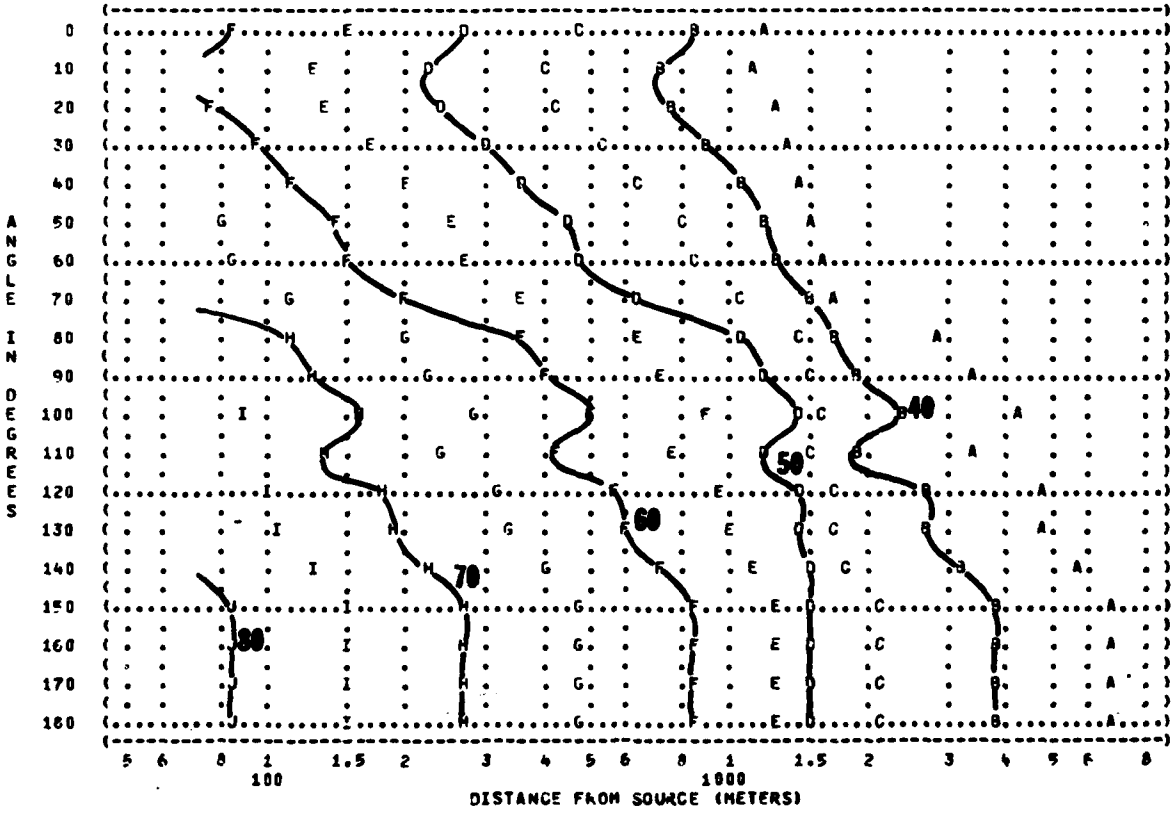


FIGURE 10.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M MG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-712-881 RUN 01 26 OCT 81 PAGE 28

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

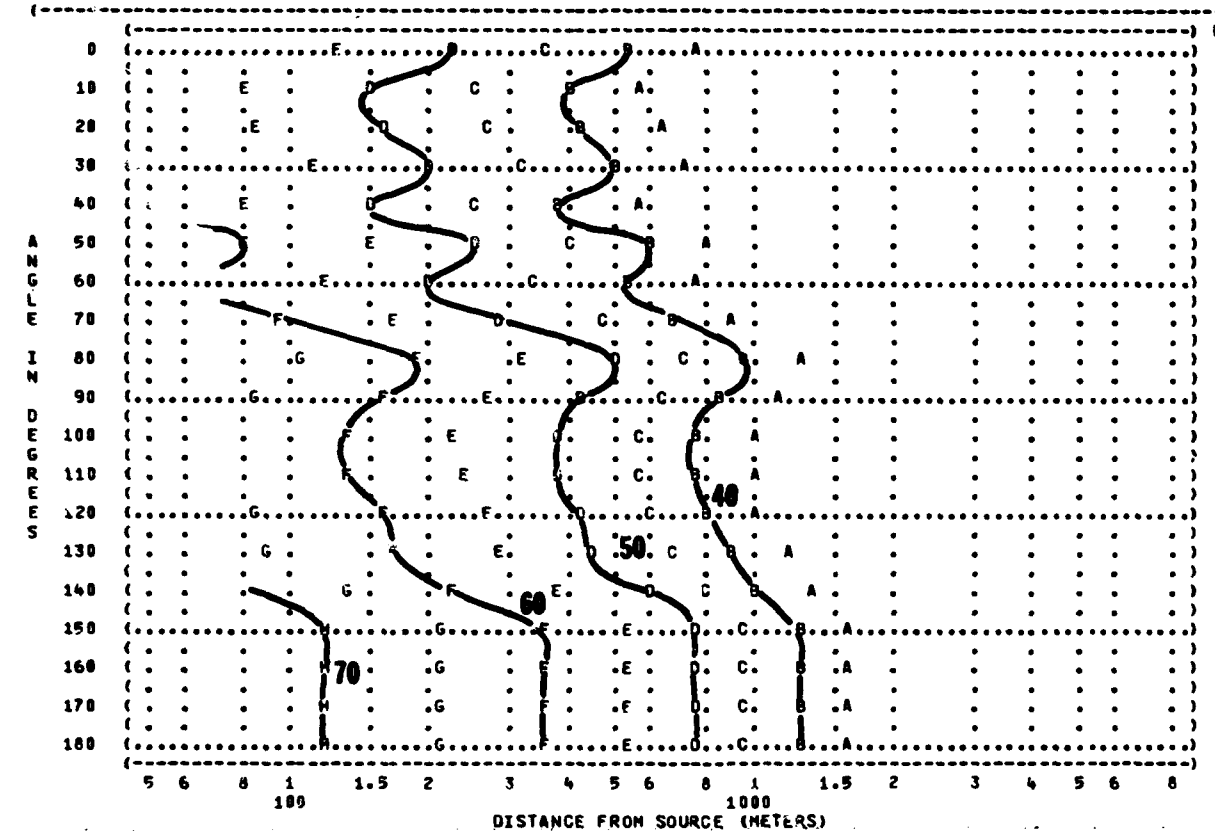


FIGURE 10.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-712-001 RUN 01 26 OCT 81 PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

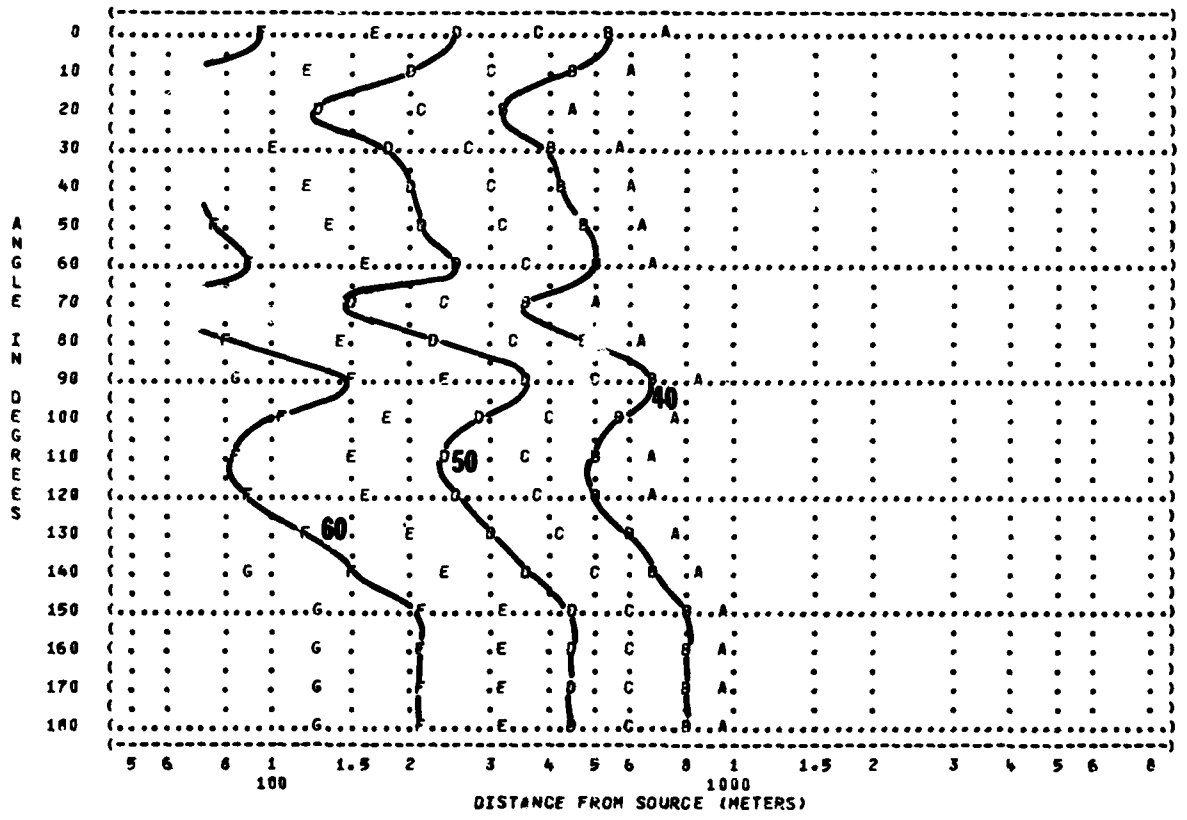


FIGURE: 10.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (C8)
250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 01
26 OCT 81
PAGE 22

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

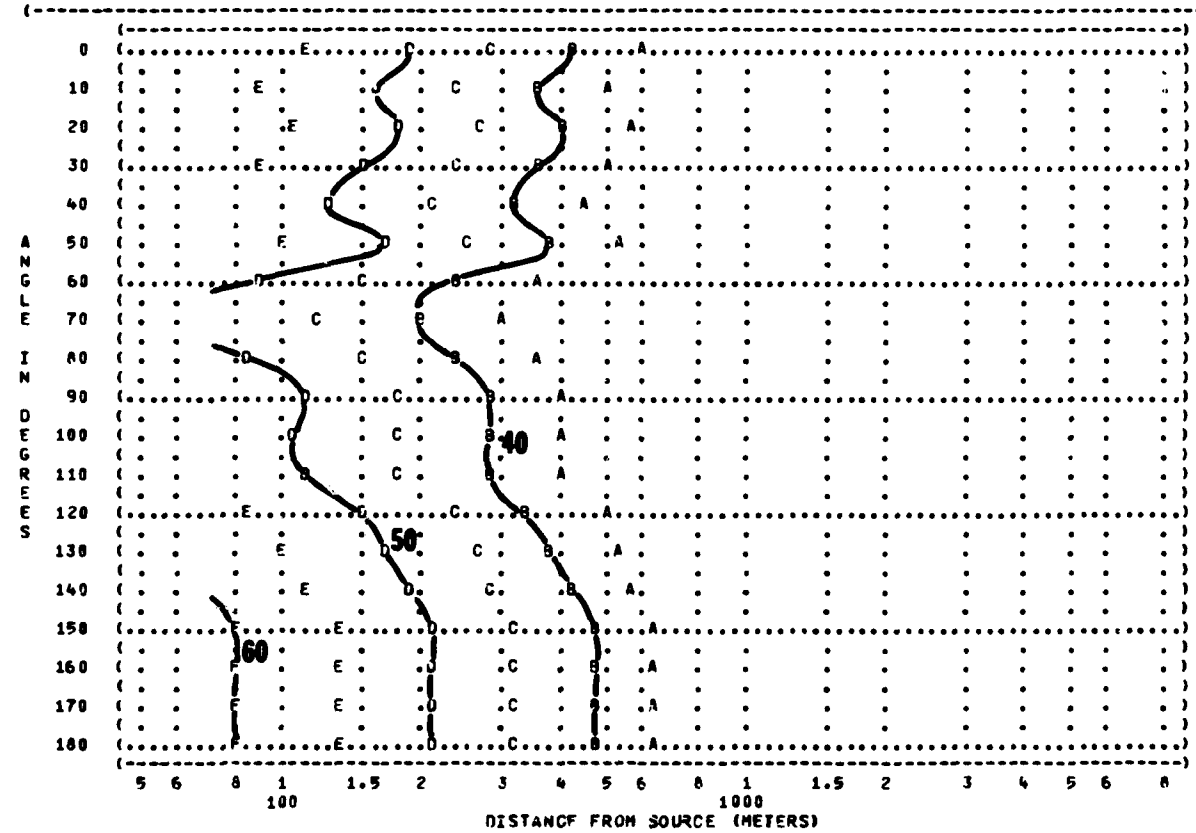


FIGURE: **10.8** SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 01
26 OCT 81
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NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

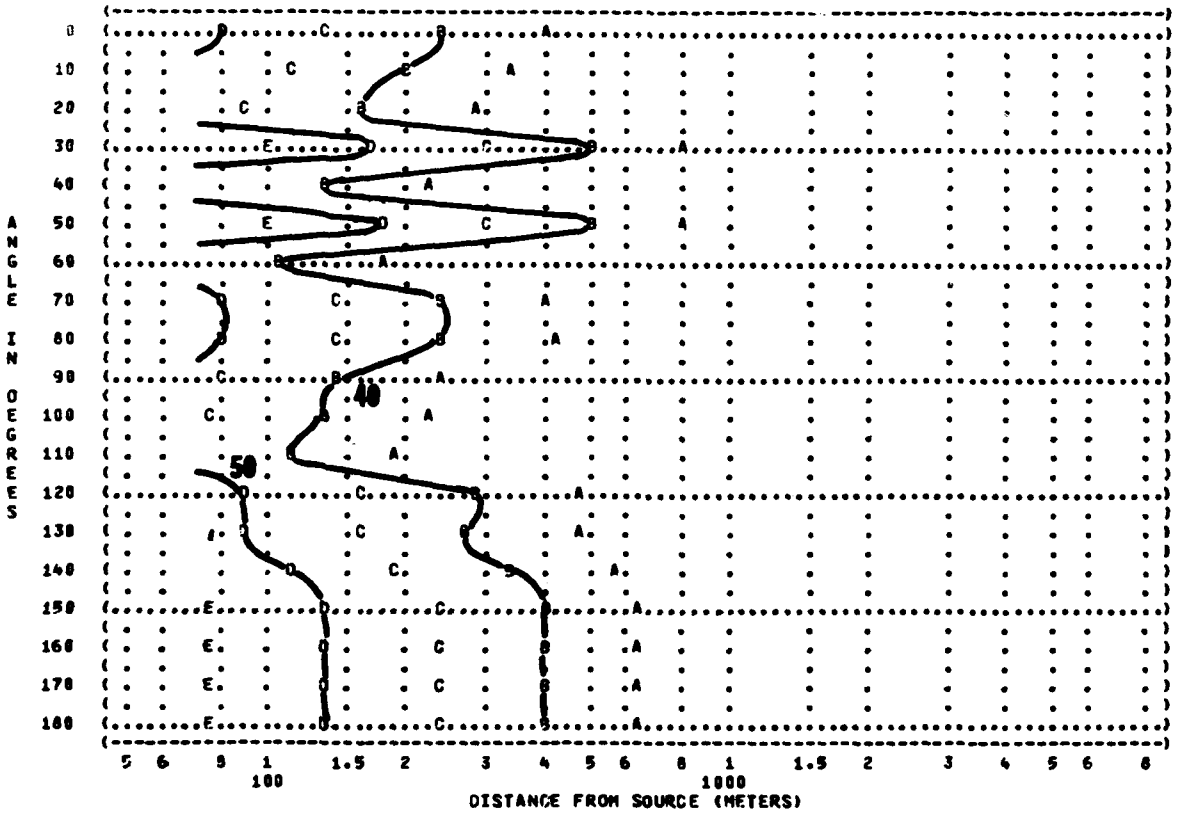

FIGURE: 10.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 01
26 OCT 81
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NOISE SOURCE/SUBJECT: J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

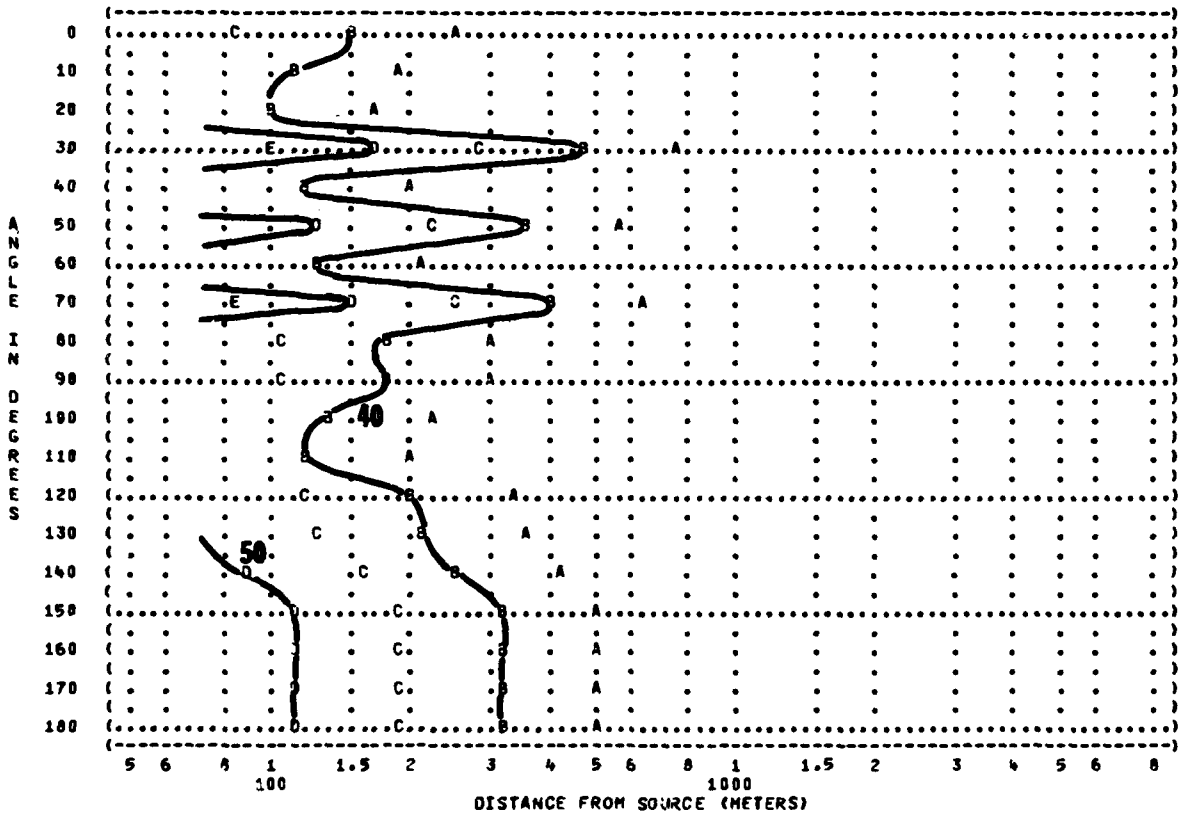

FIGURE 10.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-712-001 RUN 01 26 OCT 81 PAGE 25

NOISE SOURCE/SUBJECT: J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

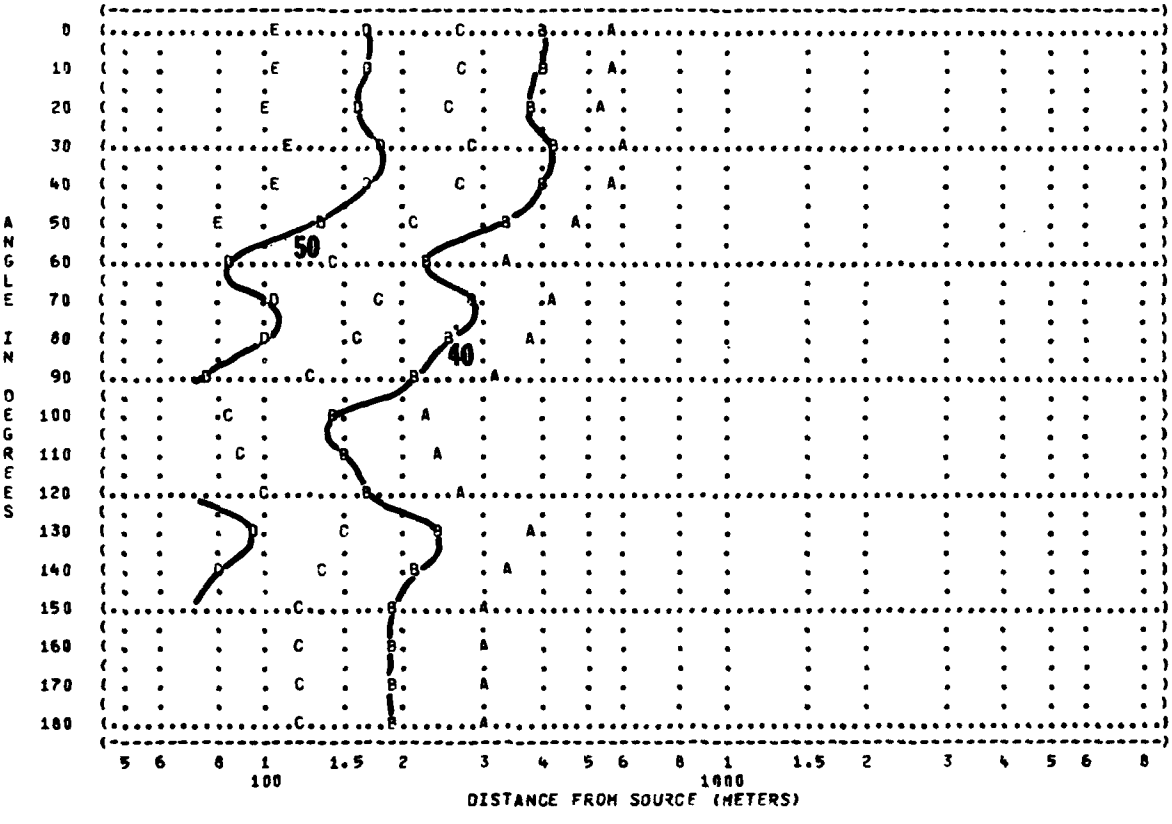

FIGURE: 10.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 01
26 OCT 81
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POINT
A
B
C

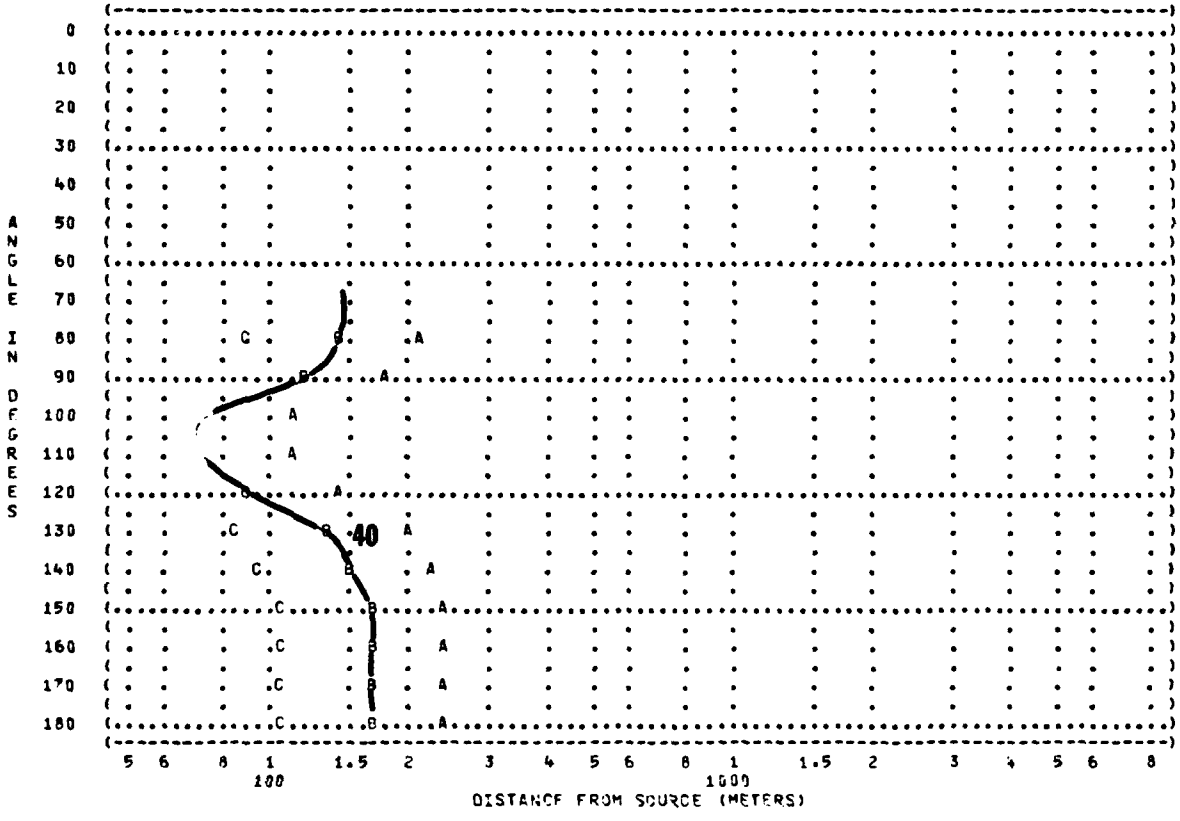

FIGURE: 10.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST 8F-712-001
RUN 01
26 OCT 81
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NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40

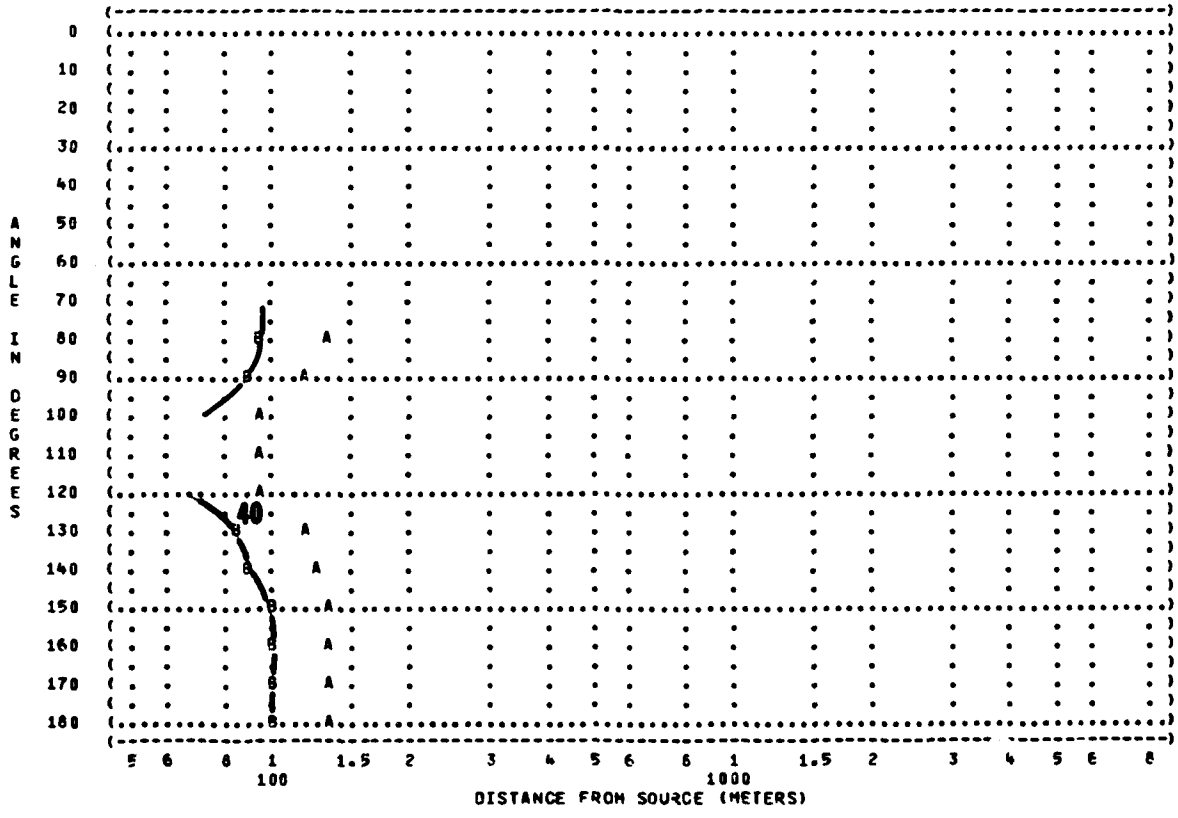


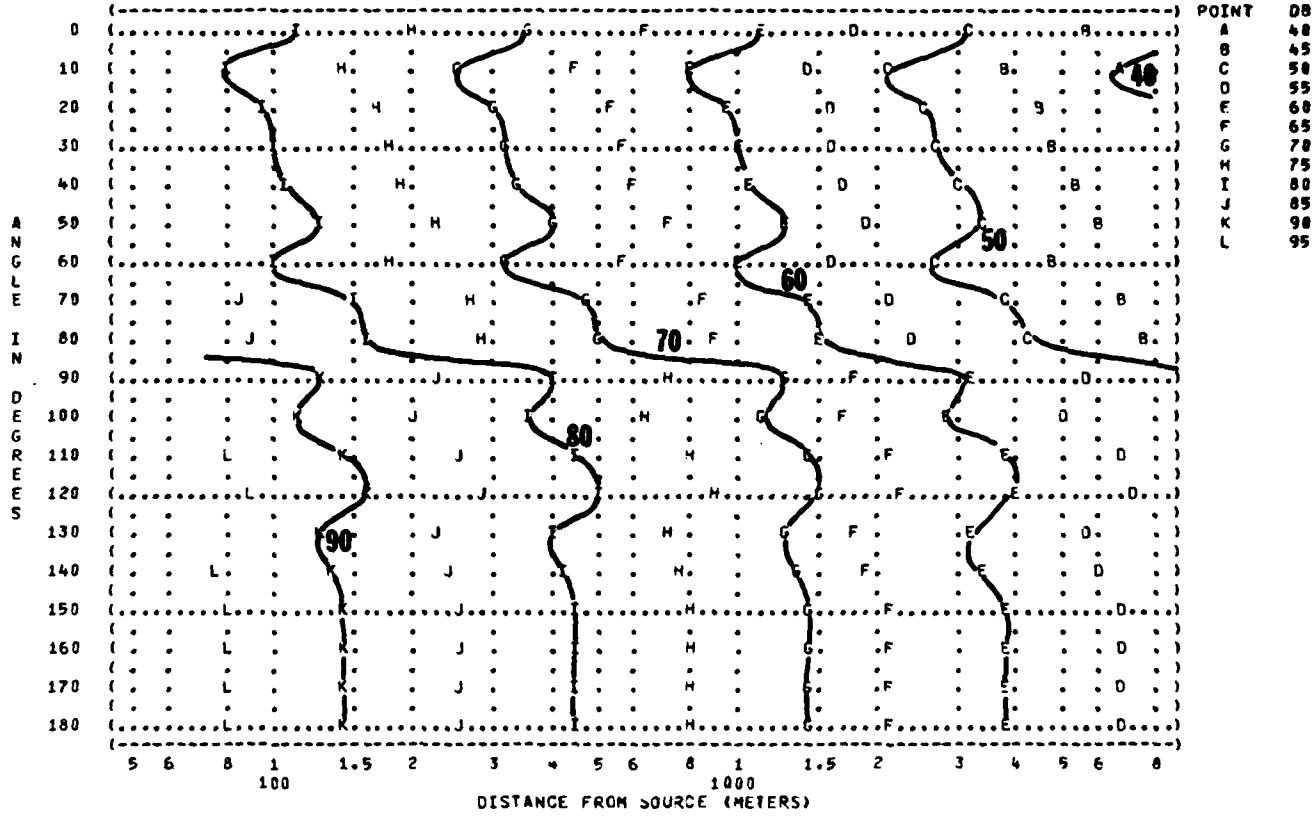
FIGURE 10.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-081
RUN 02
26 OCT 81
PAGE 16



POINT	DB
A	40
B	45
C	50
D	55
E	60
F	65
G	70
H	75
I	80
J	85
K	90
L	95

FIGURE: 10,8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 02
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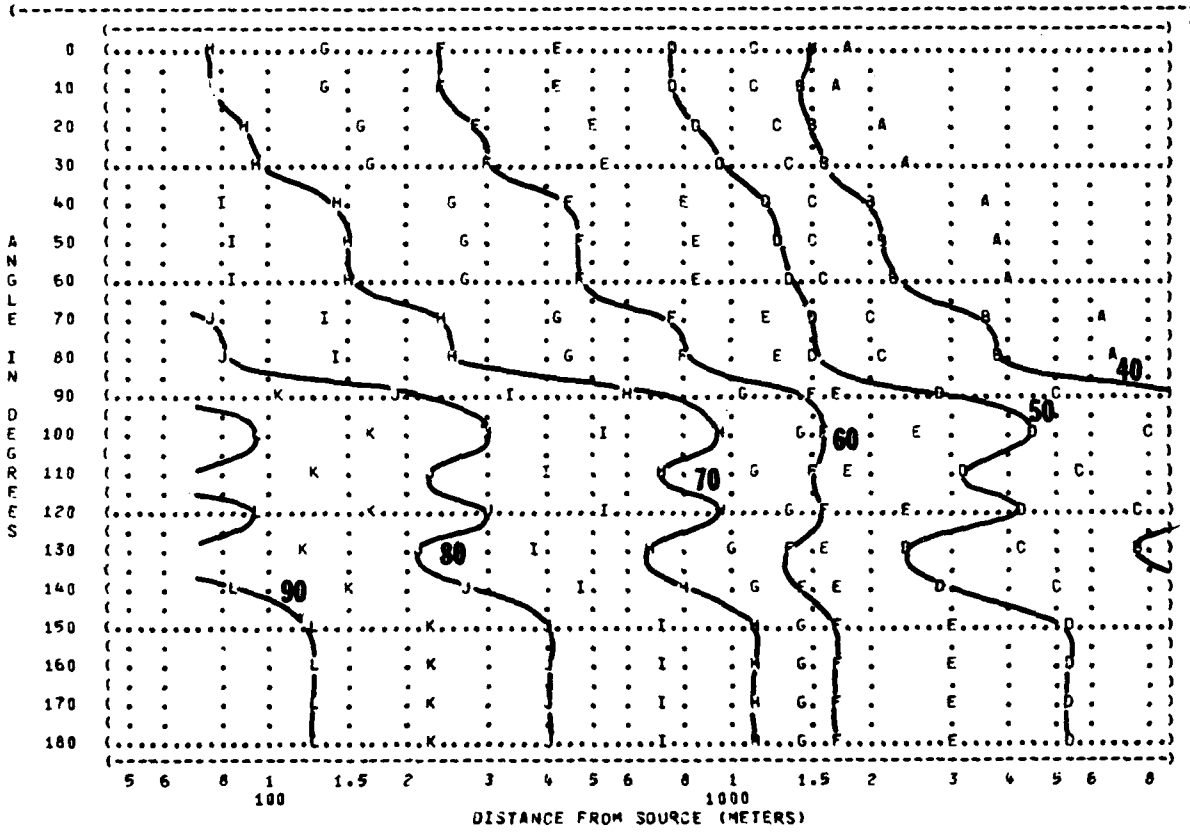
PAGE 19



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90

FIGURE 10.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-712-001 RUN 02 26 OCT 81 PAGE 20

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

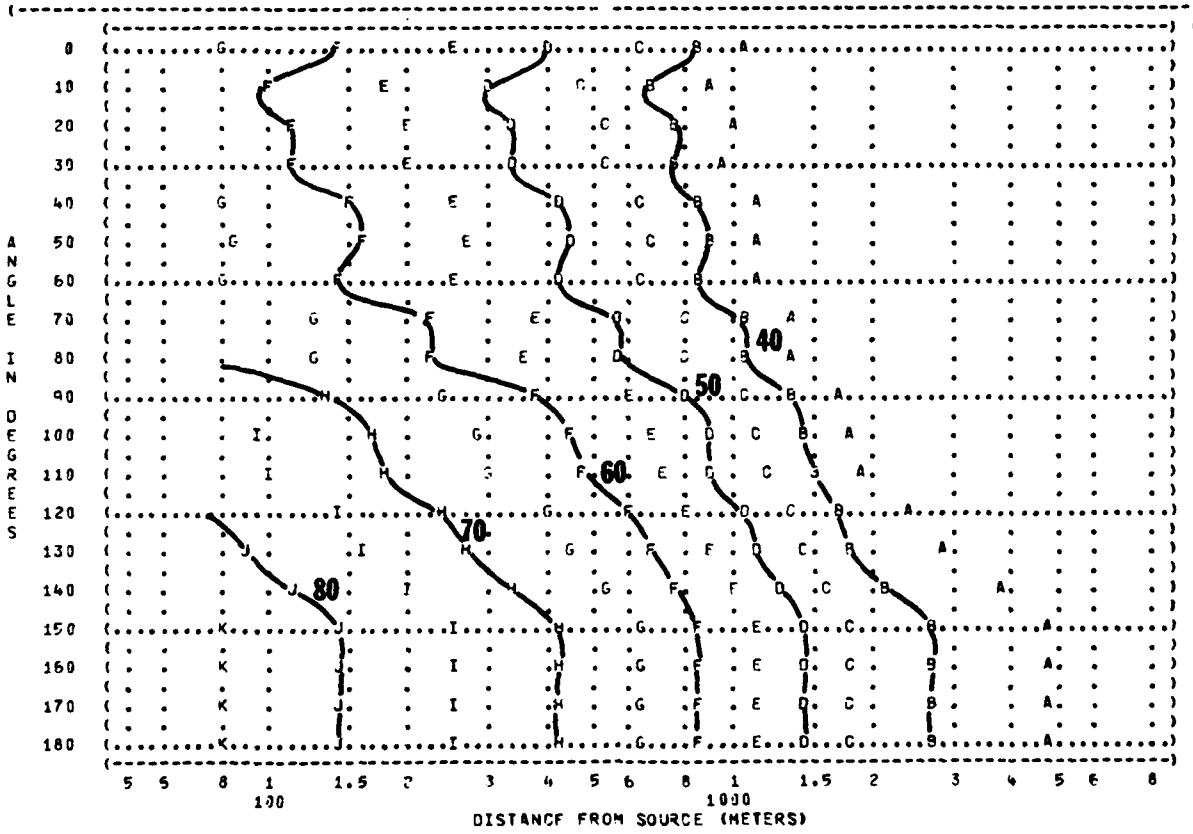


FIGURE 10.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-081
RUN 02
26 OCT 81
PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

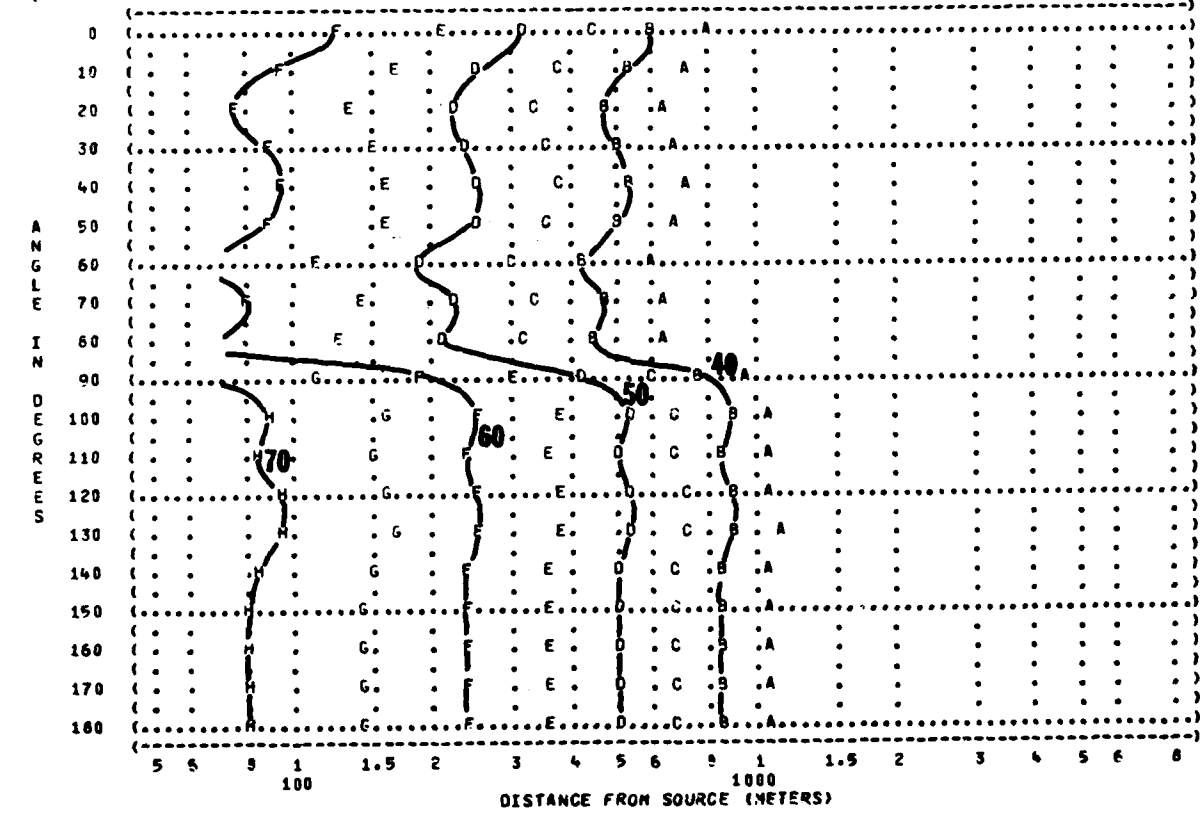


FIGURE: 10.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 02
26 OCT 81
PAGE 22

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

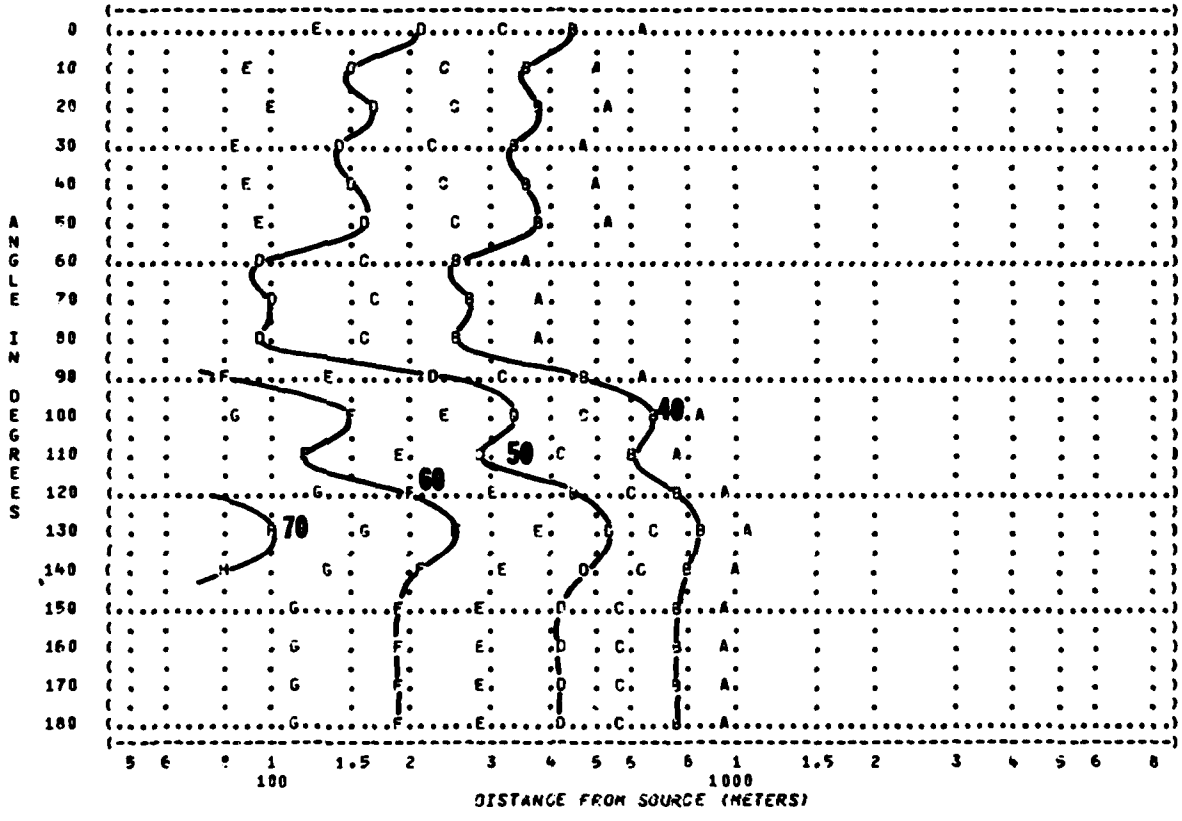


FIGURE: 10.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-712-001
RUN 02
26 OCT 81
PAGE 23

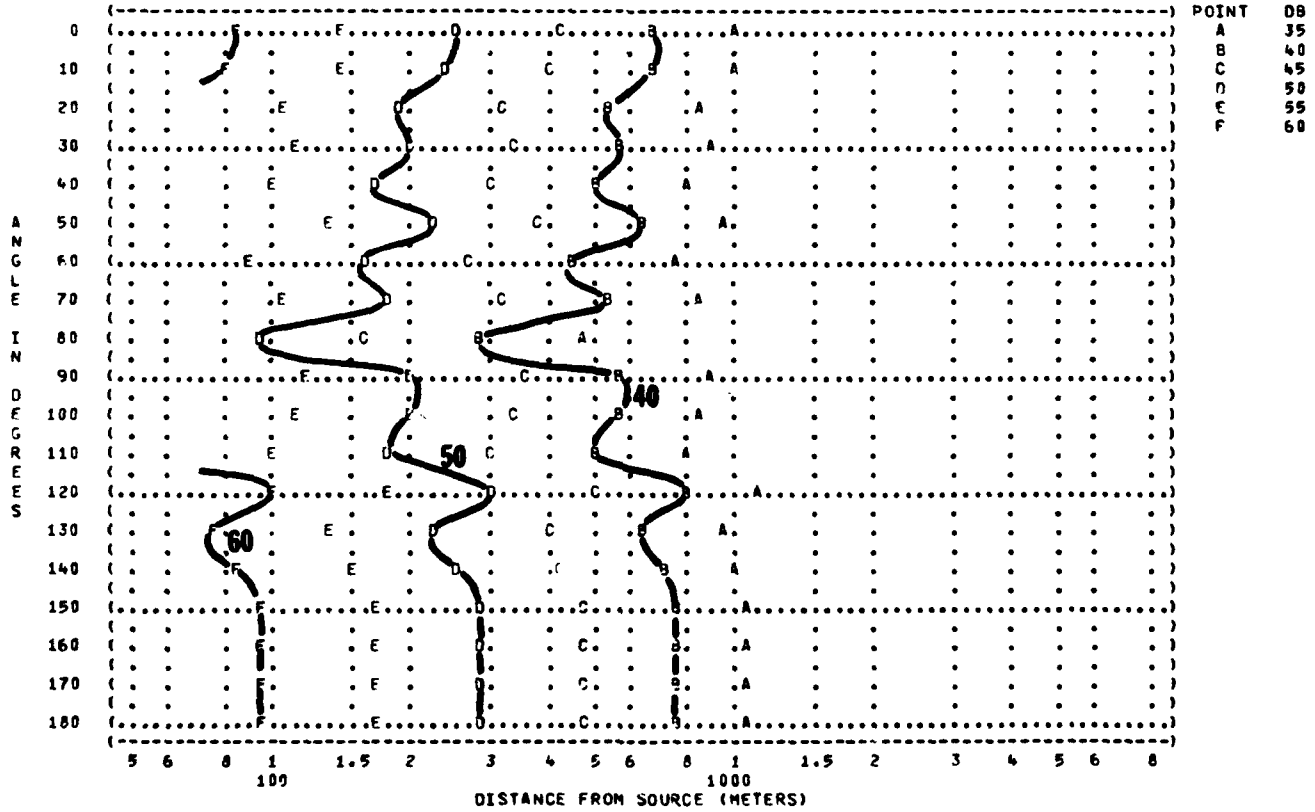


FIGURE 10.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST 8F-712-001 RUN 02 26 OCT 81 PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

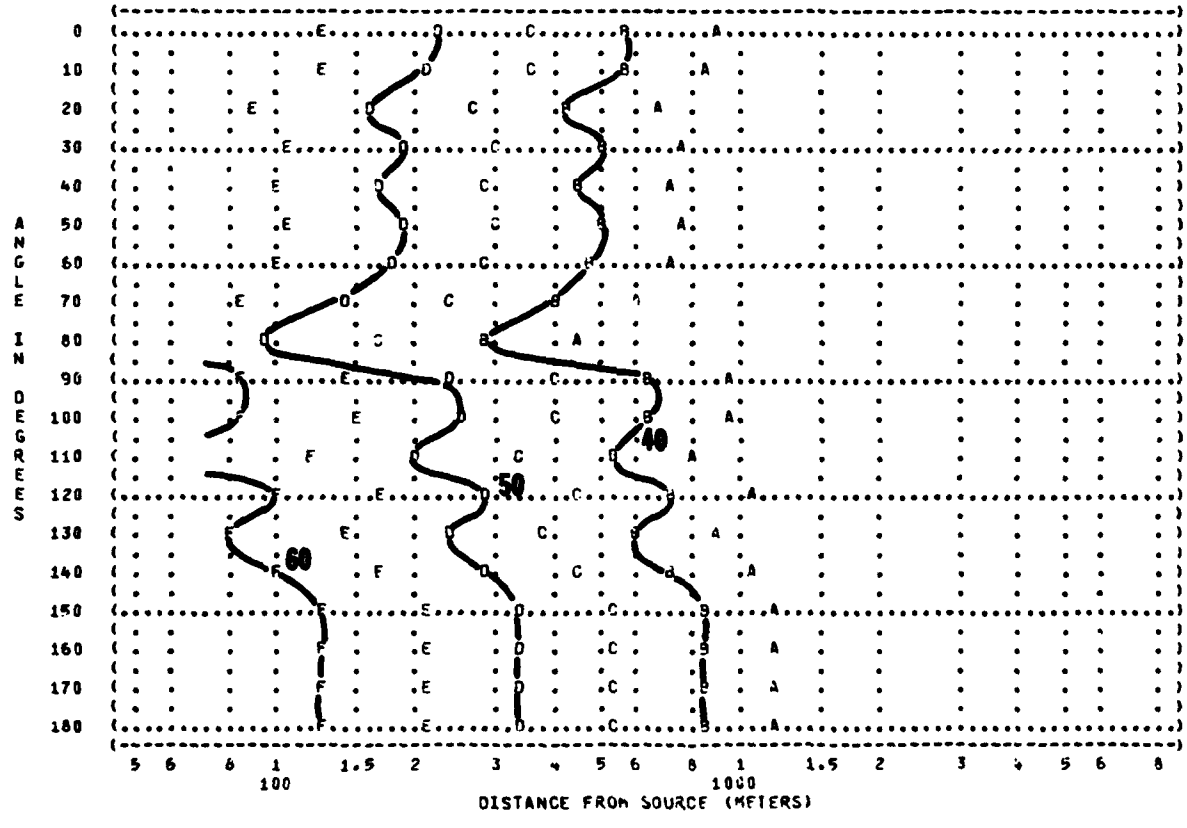


FIGURE 10.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

IDENTIFICATION
OMEGA 1.4
TEST AF-712-001
RUN 02
26 OCT 81
PAGE 25

NOISE SOURCE/SUBJECT: J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 73 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

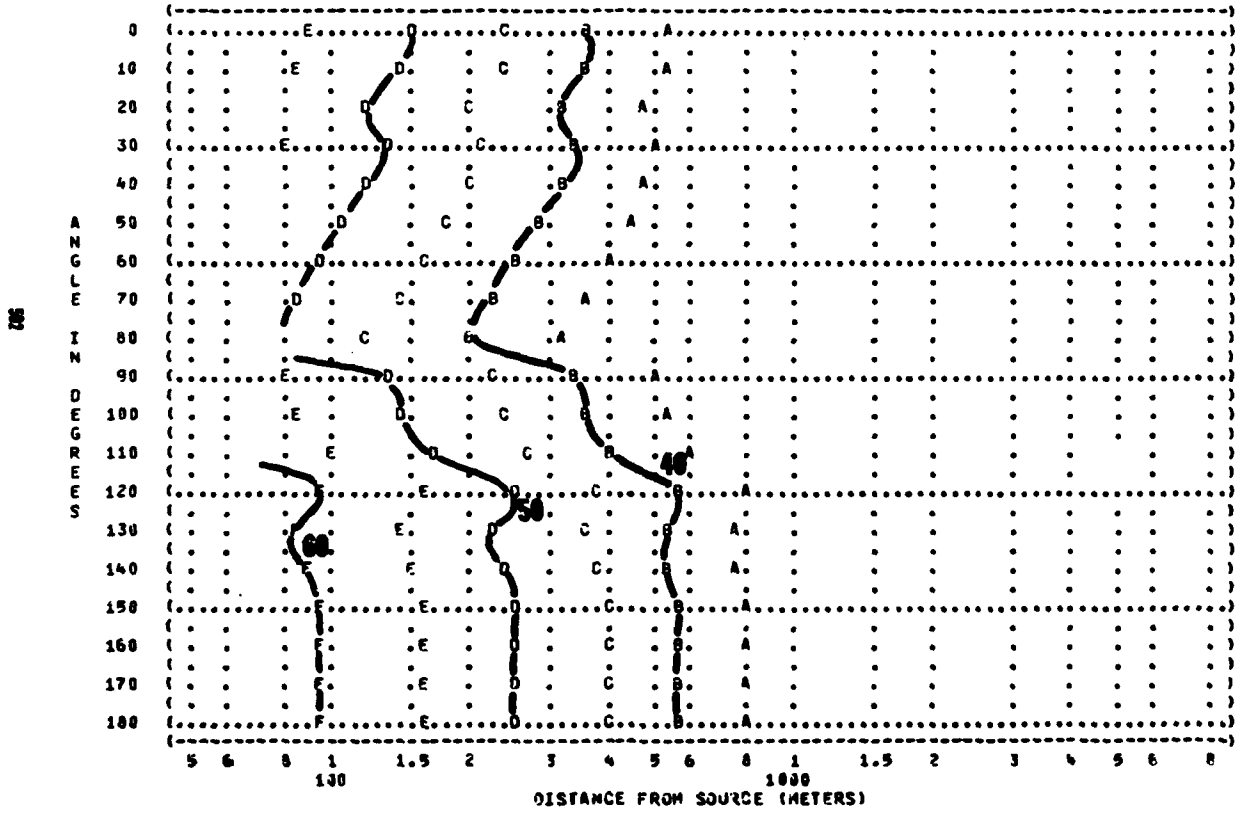


FIGURE 10.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST 8F-712-081 RUN 02 26 OCT 81 PAGE 26

POINT	DB
A	35
B	40
C	45
D	50
E	55

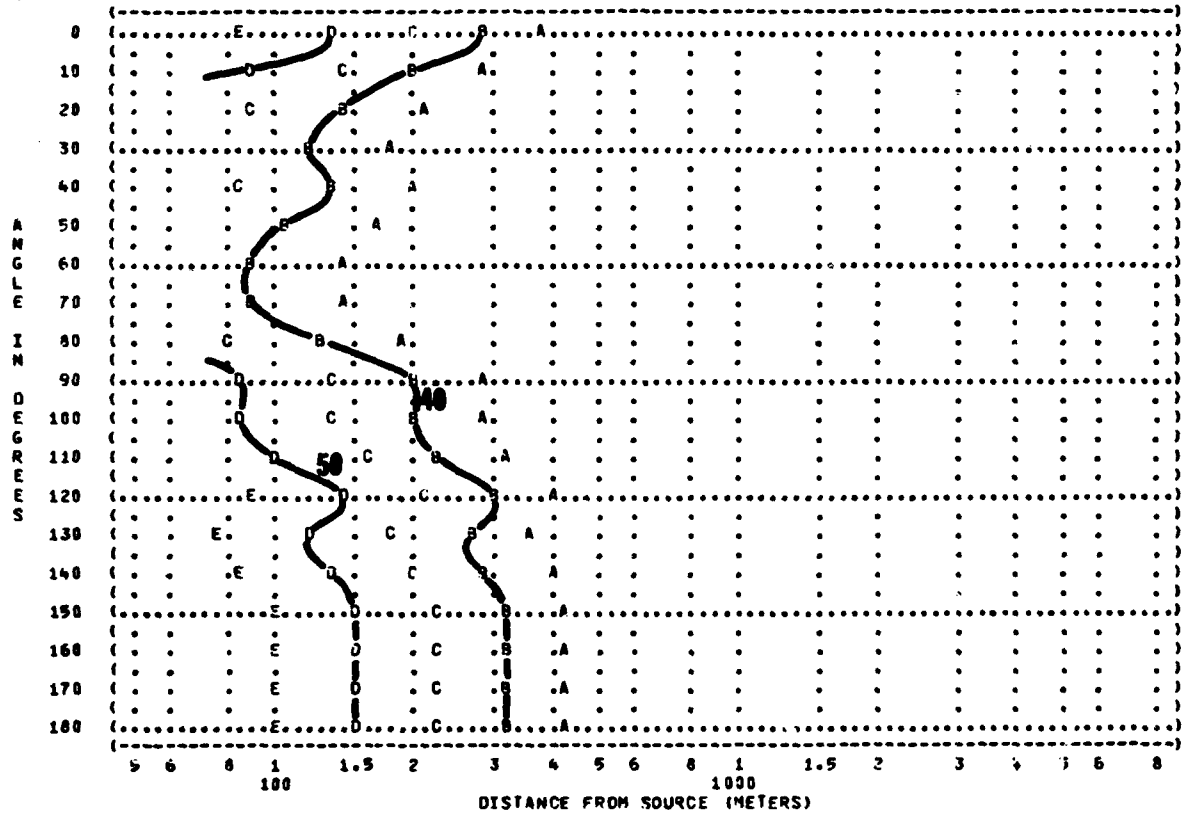


FIGURE: 10.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J79-GE-15 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-4 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-712-001 RUN 02 26 OCT 81 PAGE 27

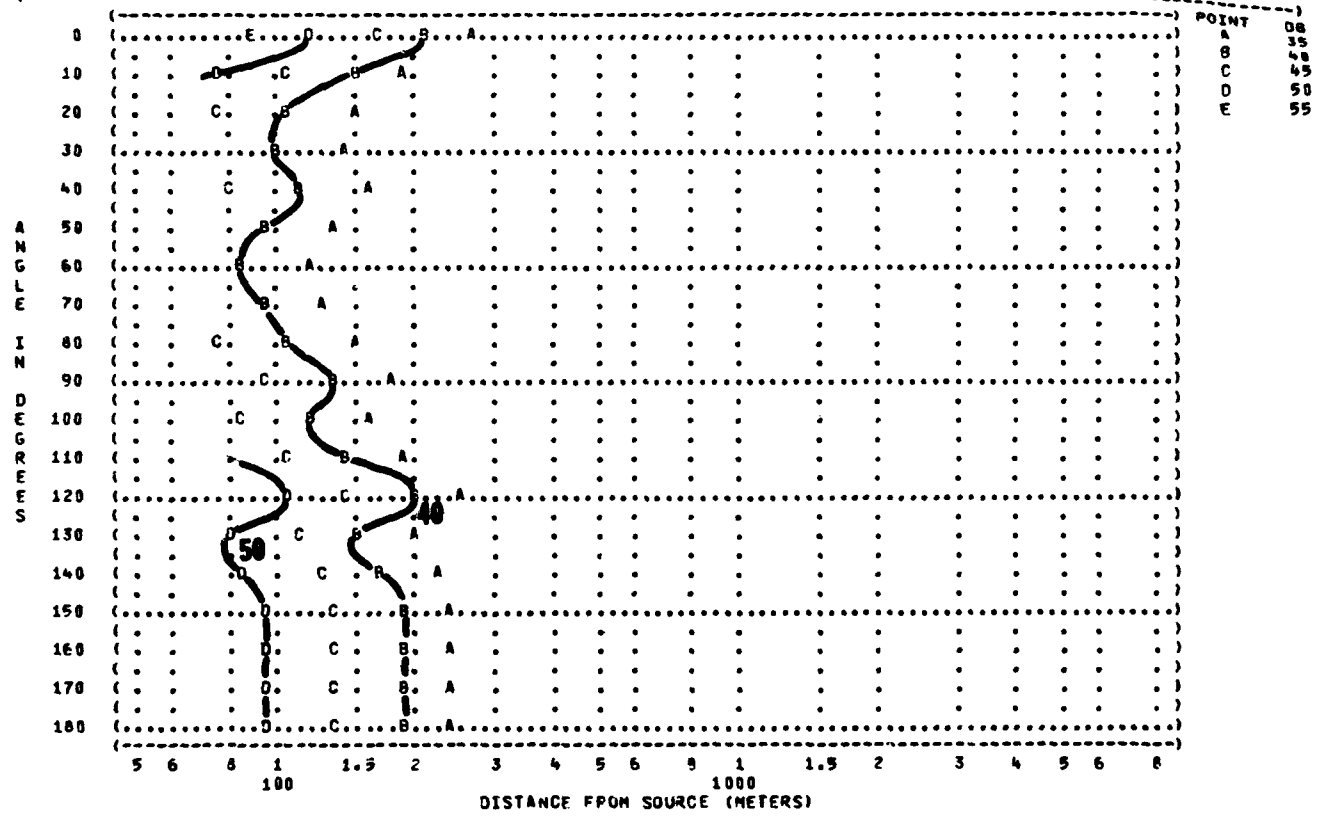


TABLE 11.1
TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS
F100-PW-100 ENGINE IN THE ASE-TEXAS INC. HUSH-HOUSE, GROUND RUNUP
KELLY AFB TEXAS, TEST #BF-714-001
(Engine For The F-15 and F-16 Aircraft)

Engine Operation	Single Engine	
80%	80	% RPM
	2774	LBS/HR FF
	1.07	EPR
Military Power	92	% RPM
	8582	LBS/HR FF
	2.40	EPR
Afterburner Operation	92	% RPM
	41,593	LBS/HR FF
	2.40	EPR
Meteorology		
Temperature	25	C
Bar Pressure	.760	M Hg
Rel Humidity	73	%
Wind - Speed	3	M/Sec (6 Kts)
- Direction	170	Deg

TABLE: MEASURED SOUND PRESSURE LEVEL (DB)
11.2 1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 01
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
80% RPM (1.07 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 25 C
BAR PRESS = .761 M HG
REL HUMID = 73 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	74	72	70	69	70	71	68	70	69	73	75	73	72	73	71	73	73	72	70
16	69	70	68	67	69	69	72	69	73	75	73	75	74	73	72	75	71	74	72
20	67	64	67	66	67	69	70	71	70	74	74	75	75	72	75	76	73	74	73
25	57	57	59	61	63	61	61	66	66	68	71	71	71	70	69	71	69	70	72
31.5	55	55	60	59	60	59	57	59	60	61	63	66	65	67	68	71	70	68	69
40	57	57	62	56	58	59	58	62	58	57	57	58	62	64	68	69	67	66	66
50	60	56	61	57	58	57	56	60	59	56	57	58	60	58	67	67	67	63	63
63	59	58	60	58	57	58	57	56	58	58	55	58	69	58	66	65	65	63	64
80	57	56	56	56	55	56	55	58	55	55	56	58	57	57	63	63	68	60	60
100	60	60	61	60	59	58	59	59	58	57	56	57	58	57	71	71	69	67	66
125	62	60	60	59	59	60	59	60	58	57	56	58	59	56	67	67	65	65	64
160	63	62	57	56	56	57	55	56	53	52	51	53	54	53	60	58	57	57	60
200	58	60	59	55	53	55	50	50	48	48	48	49	50	52	54	50	53	50	56
250	63	59	62	55	55	58	48	52	47	46	44	48	52	52	53	51	50	50	57
315	59	55	52	50	46	48	42	45	41	40	41	46	45	49	51	47	49	50	50
400	53	52	50	46	48	43	39	39	36	37	40	42	44	47	48	46	49	50	47
500	50	45	47	43	40	41	37	34	34	36	40	42	43	41	46	46	48	50	47
630	48	45	45	42	40	42	39	36	36	39	42	45	43	41	48	46	47	46	46
800	48	46	43	39	40	41	39	37	37	40	40	44	43	41	49	45	45	46	45
1000	44	43	43	39	39	41	38	36	35	41	38	43	42	41	48	45	45	44	44
1250	44	43	43	42	42	42	40	38	34	37	36	40	41	38	47	42	42	42	42
1600	45	45	44	44	43	43	40	37	37	38	36	38	40	40	45	41	42	42	43
2000	44	45	45	44	42	42	39	37	36	37	37	39	40	40	44	40	41	44	48
2500	45	46	45	44	42	41	40	38	38	43	39	41	42	41	45	41	42	44	47
3150	58	51	49	49	44	44	42	43	41	42	42	45	43	44	49	44	47	49	53
4000	46	48	44	44	40	40	38	39	39	42	37	40	39	40	45	40	43	47	48
5000	51	56	51	51	49	48	50	53	53	53	41	53	41	42	44	39	41	43	45
6300	46	46	42	42	33	39	39	40	40	41	33	42	35	37	42	37	40	42	47
8000	47	48	44	43	39	40	39	40	40	44	34	36	34	37	42	36	39	41	46
10000	49	50	45	44	43	42	42	45	45	41	34	37	34	36	41	35	38	41	46
OVERALL	77	76	75	74	75	76	76	76	77	79	80	80	80	79	80	82	80	80	80

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 112

MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-881
RUN 02
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 25 C
BAR PRESS = .761 M HG
REL HUMID = 73 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	84	87	82	84	84	83	83	84	85	85	87	89	86	88	86	88	86	87	88
16	84	83	82	82	84	83	86	86	88	88	90	90	91	89	89	92	87	90	90
20	81	78	81	82	82	84	85		88	88	90	90	91	90	89	90	91	93	92
25	71	71	73	75	77	78	79	82	83	83	87	86	90	88	89	88	90	91	90
31.5	69<	71	68<	72	73	75	73	78	75	75	82	83	85	86	86	88	89	91	89
40	70	72	72	72	73	74	74	76	74	74	77	80	83	82	83	86	89	88	91
50	66<	63<	67<	67<	69<	71<	70<	73<	73<	73<	73<	75	77	77	81	83	85	85	86
63											71<	71<	75<	71<	71<	76<	79	80	78
80													71<				78<	72<	
100													71<	68<	67<		67<	68<	
125																			
160																			
200												67<	67<	67<	67<				
250																			
315	65<																		
400	66	60<	58<	59<	55<	52<	54<	54<			55<	59<	58<	57<	56<	52<	57<	55<	60<
500	69	66<	63<	64<	60<	63<	63<	61<				57<	56<	57<					
630	69	64<	62<	63<	61<	63<	62<	58<			57<	57<		57<					
800	65<	58<	58<	57<	59<	59<	60<	55<			58<	57<	55<	57<	57<	55<			
1000	62<										57<			57<	57<				
1250	64	57<	58<	58<	57<	58<	59<	57<			58<	56<	56<	58<	59<	58<	57<	54<	53<
1600	63	58<	58<	56<	56<	57<	57<	53<	52<	52<	57<	55<	55<	59<	58<	55<	52<		
2000	57<	54<									54<	54<	54<	58<	52<				
2500													53<						53<
3150																			59<
4000																			
5000																			
6300																			52<
8000	51<																		52<
10000	51<	45<	45<						45<	45<							53<	44<	51<
OVERALL	89	89	87	88	89	89	90	89	93	93	95	95	97	95	95	97	97	99	98

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 11.2

MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 03
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
AFTERBURNER PWR(2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 25 C
BAR PRESS = .761 M HG
REL HUMID = 73 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	94	89	92	93	92	93	92	91	92	93	97	98	97	97	95	96	96	96	96
16	89	92	90	89	91	92	92	93	96	96	97	97	98	97	98	98	96	98	99
20	89	89	90	92	92	94	95	95	98	97	98	99	100	99	98	100	100	101	99
25	82	83	85	88	89	91	93	95	95	96	98	98	100	100	100	100	99	100	102
31.5	76	78	77	81	83	86	87	89	89	92	94	97	96	99	96	100	100	100	101
40	77	80	79	82	83	84	84	87	85	89	92	96	95	96	97	100	101	100	101
50	79	78	80	80	83	85	83	87	86	84	86	90	93	94	96	98	99	98	101
63	75<	74<	75<	77<	75<	79	78<	83	82	84	82	86	87	89	90	94	96	96	96
80	74<	69<	71<	72<	72<	72<	70<	7o<	78<	81	82	85	85	84	80	84	89	88	88
100	78<	72<	71<	70<	67<	70<	69<	70<	73<	78	77<	80	81	81	78<	79	79	81	78<
125	73<	68<	66<			68<			69<	74<	73<	75<	76<	75<	75<	74<	75<	75<	73<
160											71<	73<	73<	73<	73<		71<	71<	
200											69<	74<	73<	73<	72<	68<	70<	70<	
250											69<	72<	75<	73<	74<	71<	71<		
315												67<	67<	67<	69<	66<			
400	65	62<	60<	60<	52<	51<		52<	54<	56<	59<	64	64	65	64	63	61<	61<	61<
500	70	67	65<	68	60<	62<	58<	60<	58<			60<	61<	64<	62<	63<	58<	61<	59<
630	68	66<	63<	65<	61<	64<	58<	58<	60<	56<	57<	59<	61<	66	64<	64<	60<	63<	59<
800	67	64<	61<	62<	61<	61<	60<	59<	59<	58<	60<	52<	66	69	67	66	61<	62<	59<
1000	67	63<	61<	62<	60<	60<	57<	58<	57<	56<	58<	61<	64<	69	68	66<	53<	62<	59<
1250	71	68	65	66	64	64	62<	60<	59<	59<	60<	64	66	67	67	70	66	63<	59<
1600	71	67	66	65	63	63	62<	58<	60<	58<	59<	63	65	68	69	71	63	59<	57<
2000	64	62<	62<	60<	58<	57<	56<	54<	56<	55<	56<	62<	63	67	64	67	59<	56<	54<
2500	56<	54<	56<	55<	54<	51<			53<	53<	54<	60<	62	60<	60<	62	57<	54<	53<
3150												58<	57<	56<	57<	60<			56<
4000	54<											54<				56<			
5000	55<	53<							54<	51<		56<			52<	55<			
6300	56<	54<		51<					53<	51<						53<			
8000	56<	53<	49<	50<					53<	52<				50<	51<	53<	48<	8	49<
10000	56	52<	49<	47<	46<	45<	44<	46<	52<	49<		44<		46<	48<	52<	47<	47<	49<
OVERALL	97	95	96	96	98	99	100	101	102	102	104	106	106	106	106	108	108	108	109

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

FIGURE: NORMALIZED FARFIELD NOISE LEVELS

11.1 DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
80% RPM (1.07 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 78 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-714-881
RUN 81
26 OCT 81
PAGE 6

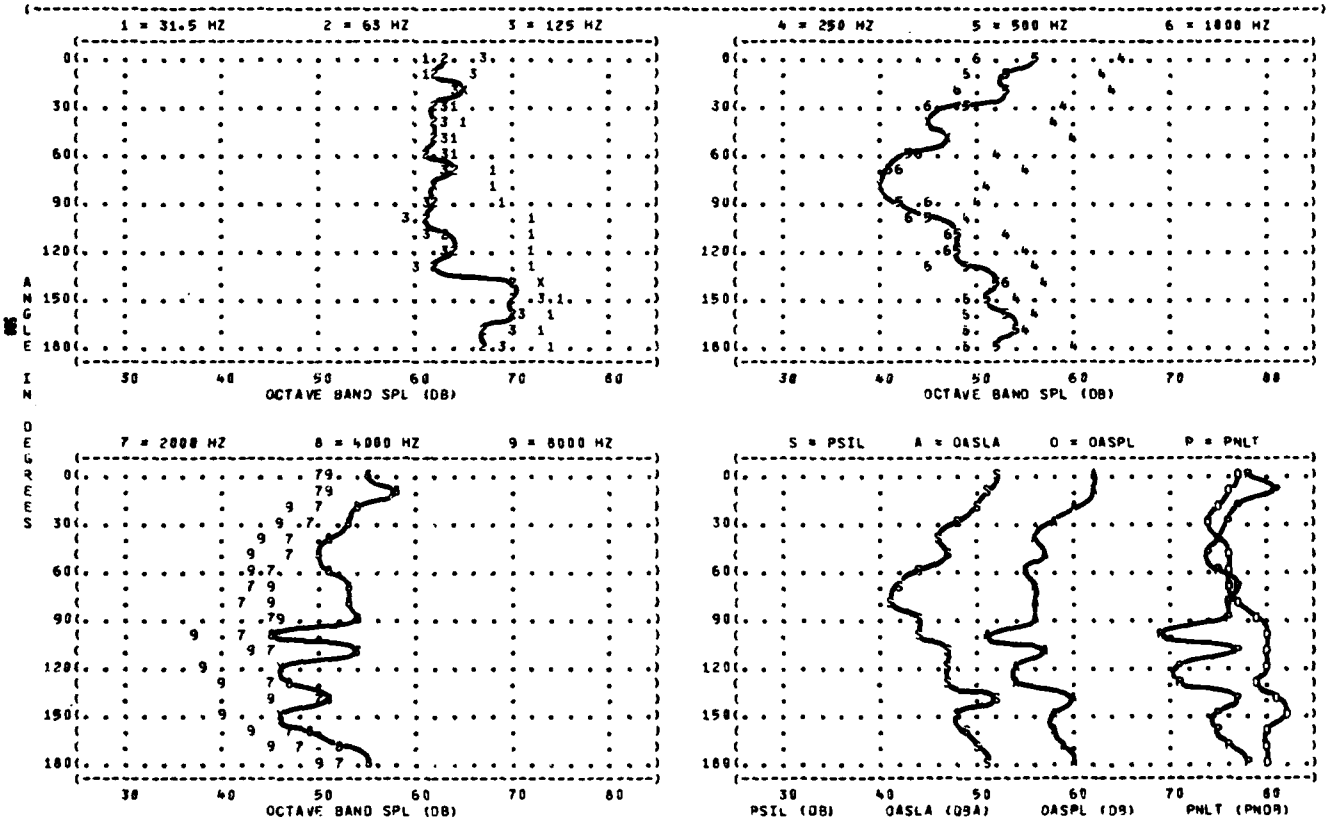


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

11.1

DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-881
RUN 02

26 OCT 81

PAGE 6

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

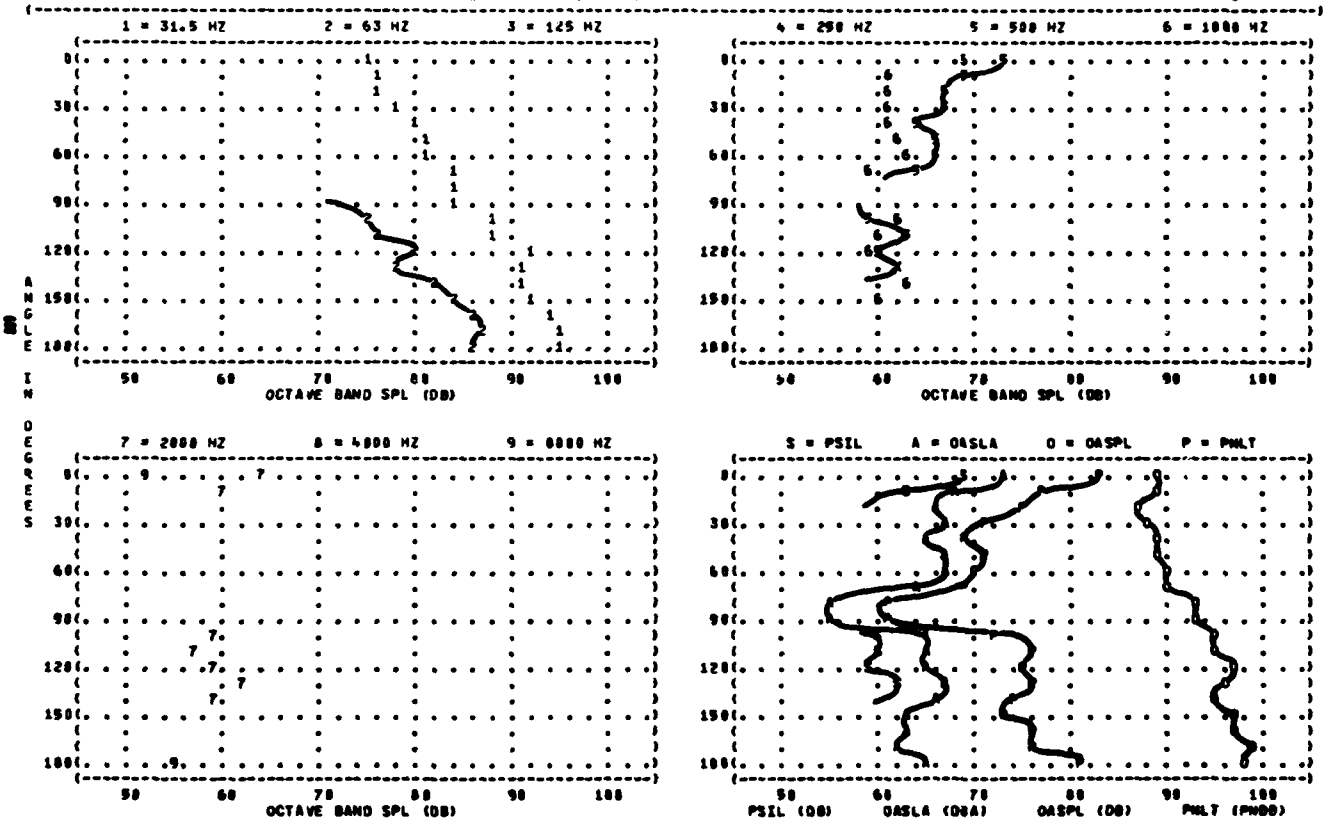


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

11.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE	AFTERBURNER PWR(2.4 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST SF-714-001
RUN 03
26 OCT 81
PAGE 6

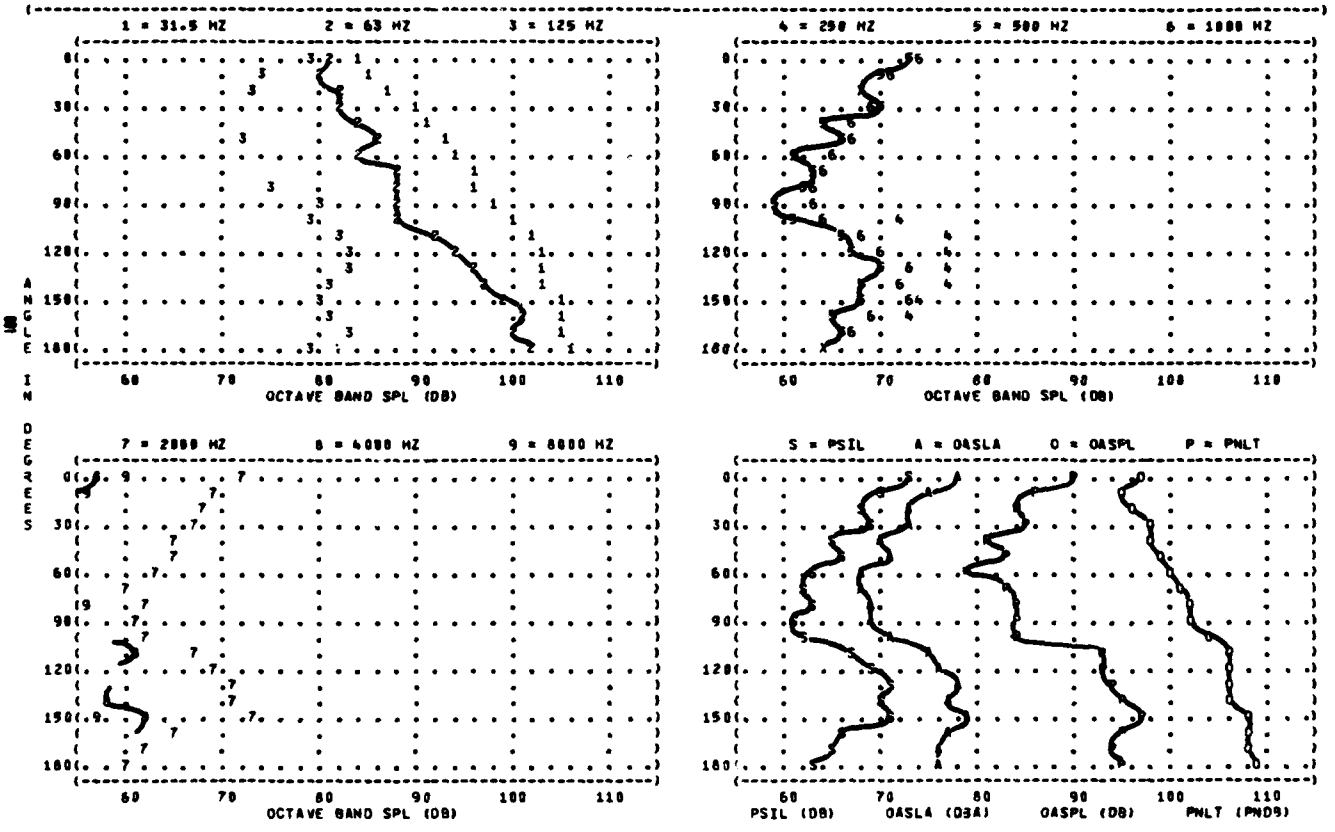


FIGURE: 11.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION:
80% RPM (1.07 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M MG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 01
26 OCT 81
PAGE 13

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

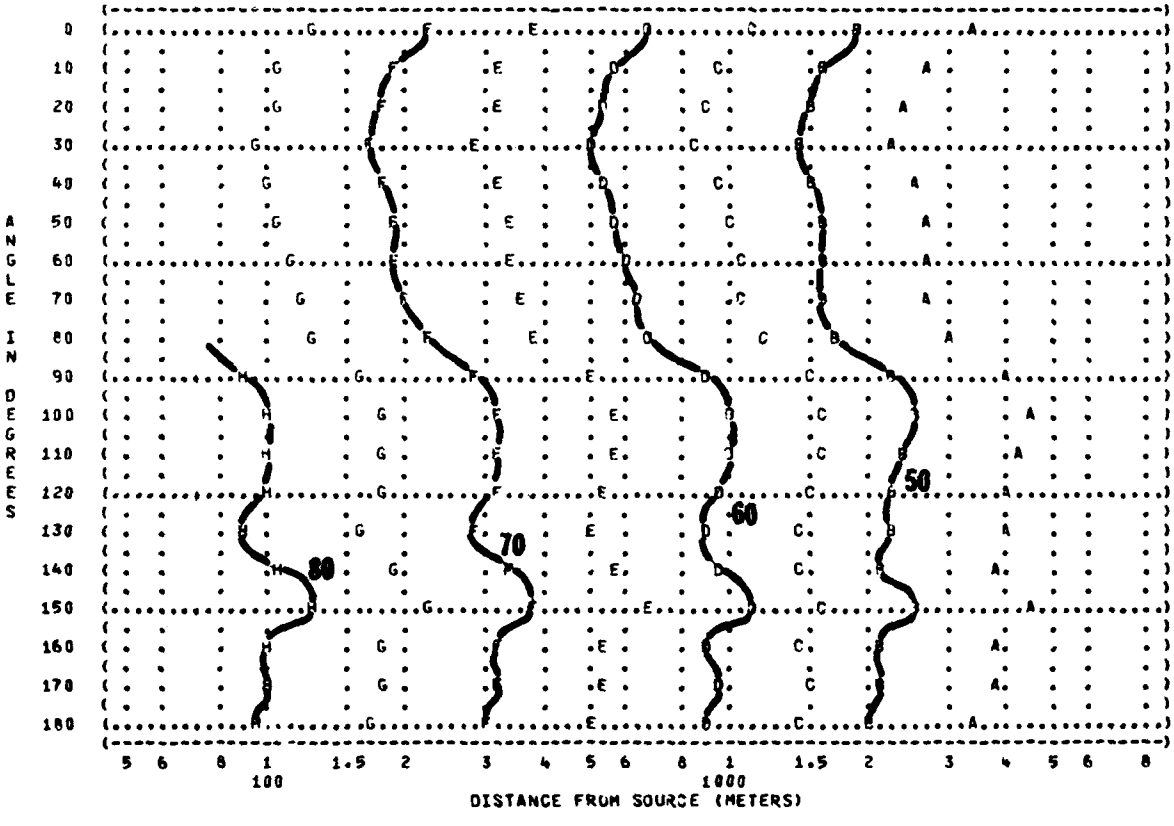


FIGURE 11.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (OB)

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 02
26 OCT 81

POINT	DB
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95
K	100

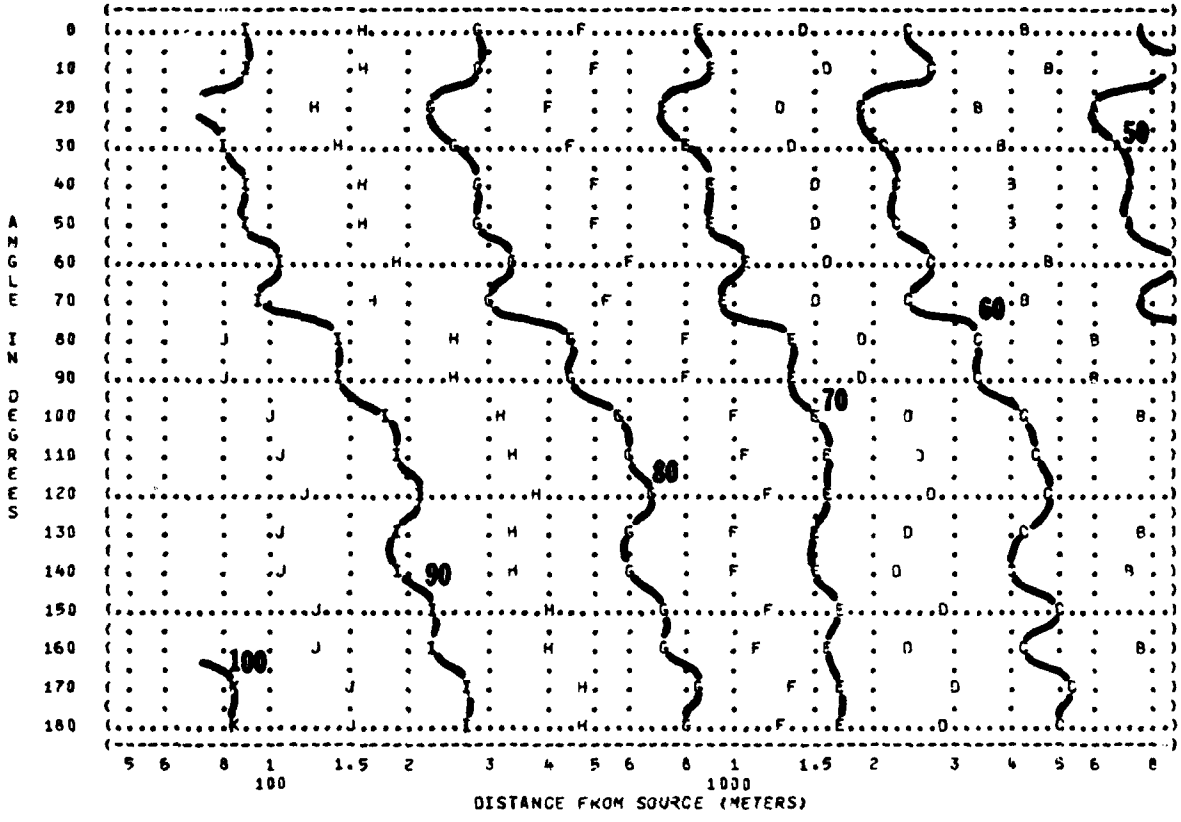


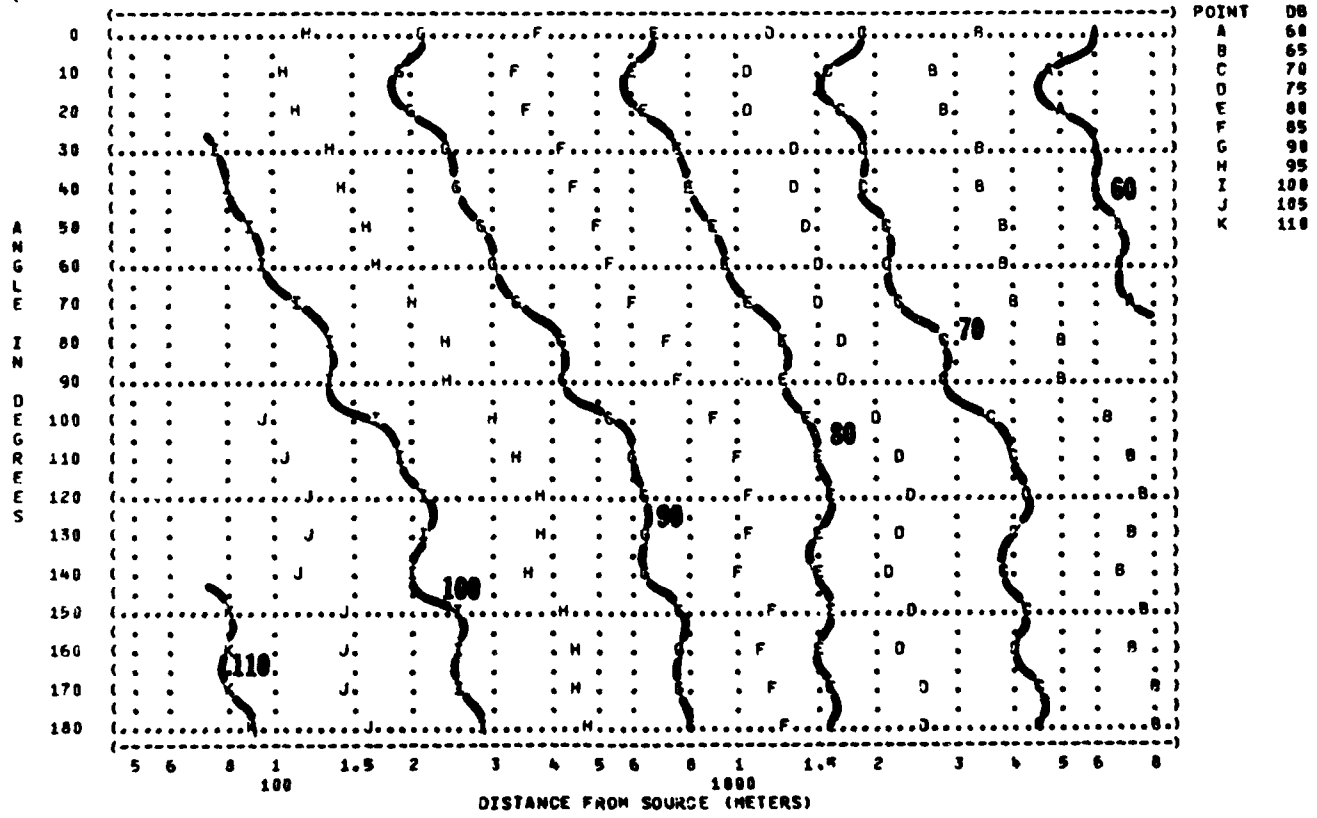
FIGURE: 11.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
AFTERBURNER PWR(2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 03
26 OCT 81
PAGE 13



POINT	DB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95
I	100
J	105
K	110

FIGURE: 11.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT: F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION: 80% RPM (1.07 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST 8F-714-081 RUN 01 26 OCT 81 PAGE 14

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

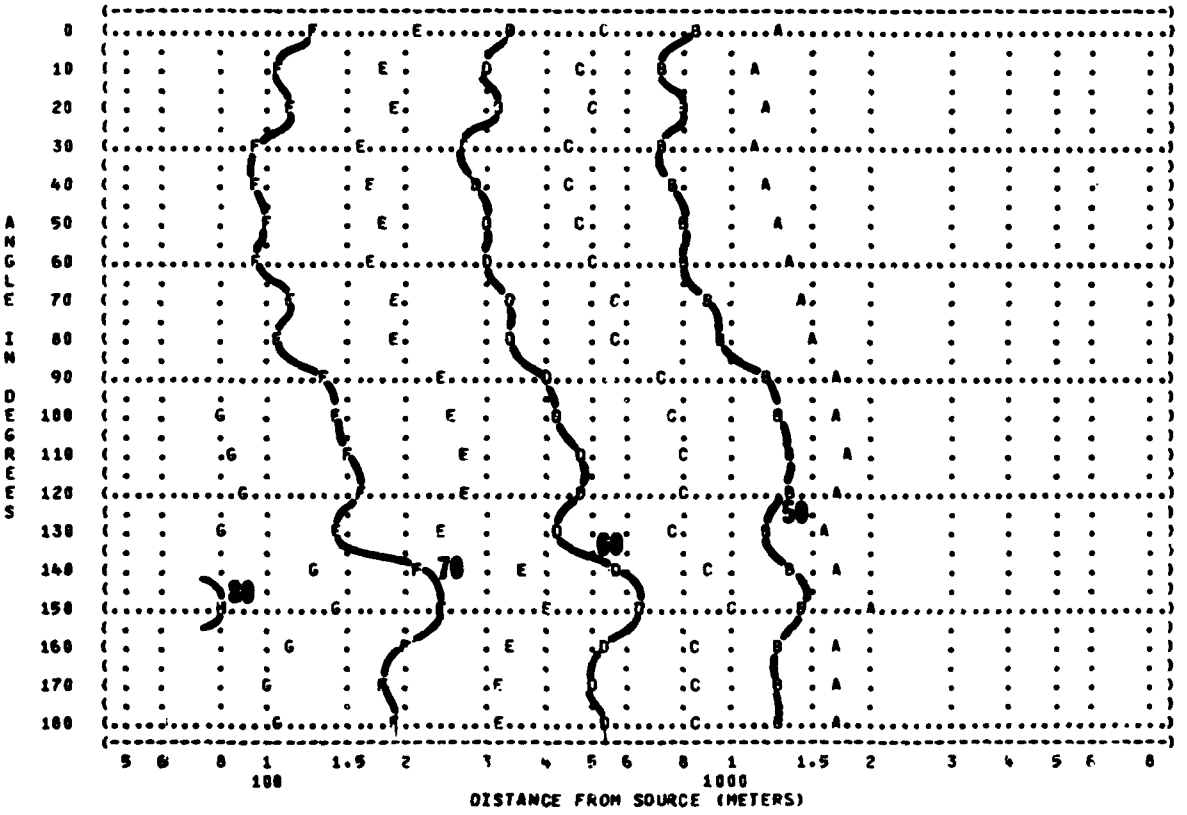


FIGURE: C-WEIGHTED OVERALL SOUND LEVEL (OASLC)
11.3 EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-714-001
RUN 02
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95

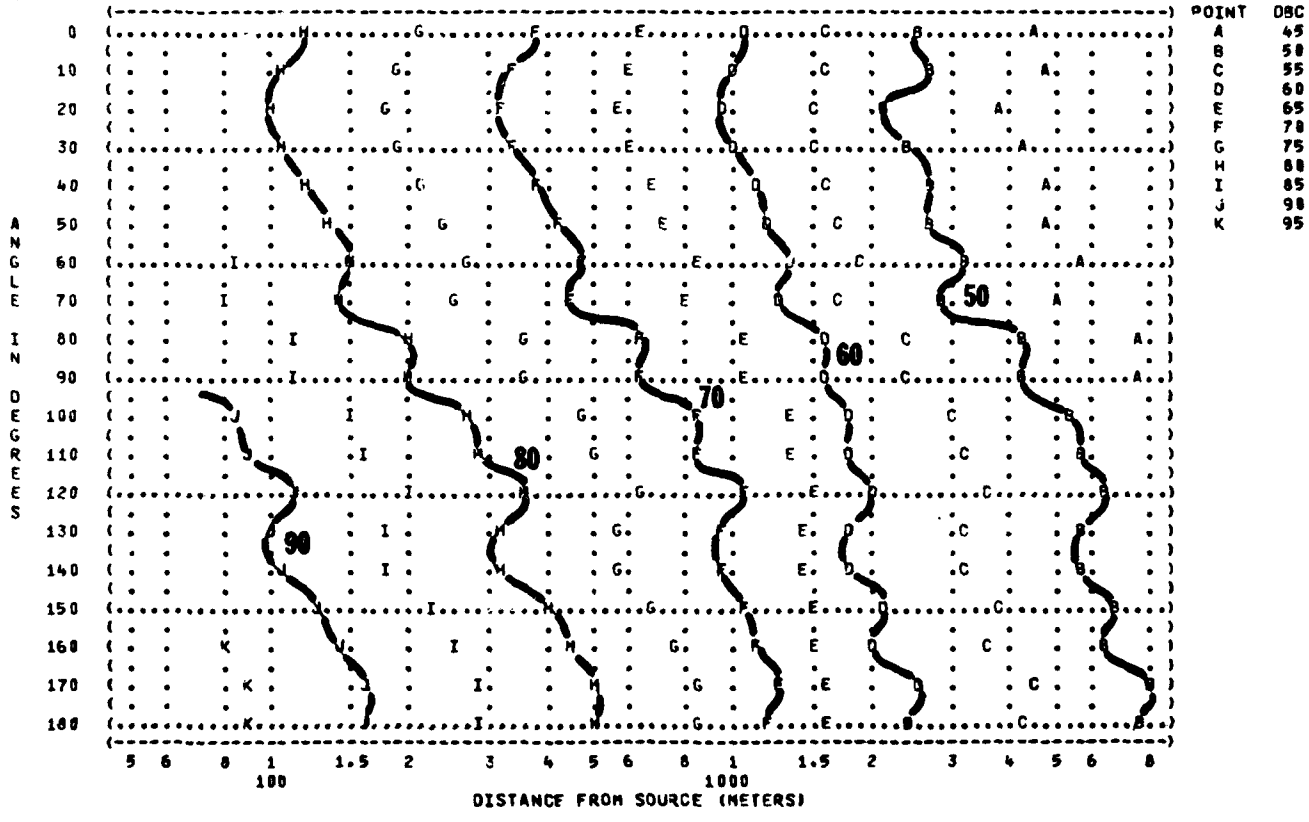


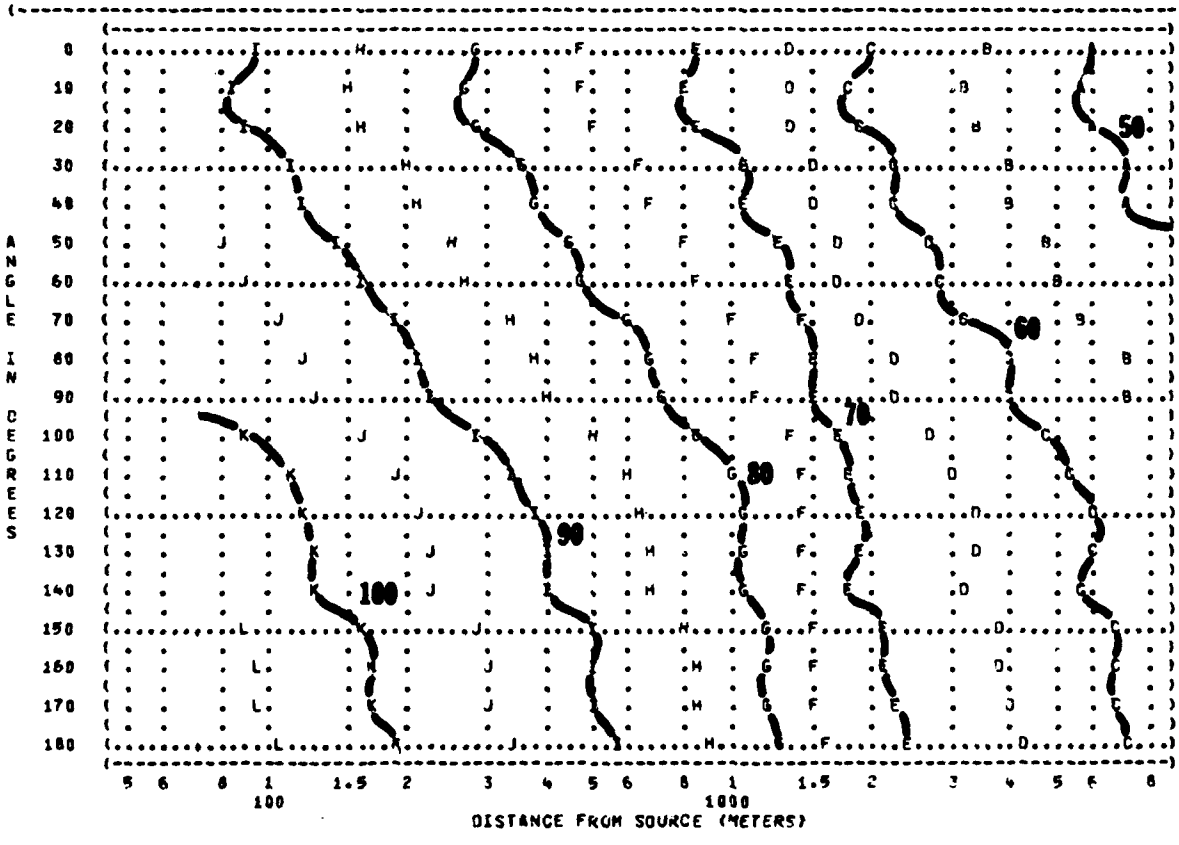
FIGURE 11.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
AFTERBURNER PWR (2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 03
26 OCT 81
PAGE 14



POINT	DBC
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95
K	100
L	105

FIGURE: A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

11.4

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION:
80% RPM (1.07 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-081
RUN 01
26 OCT 81
PAGE 15

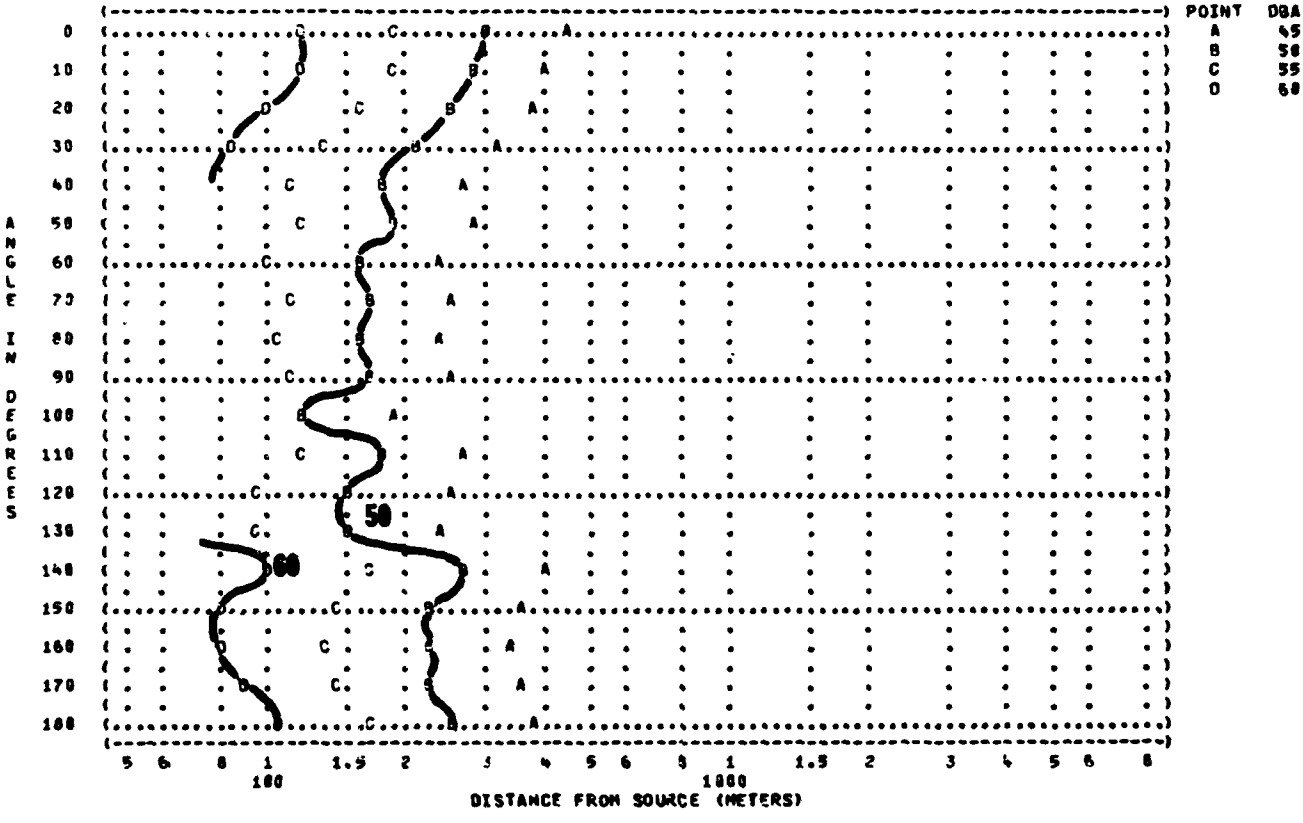


FIGURE: 11.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-881
RUN 02
26 OCT 91
PAGE 15

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70
G	75

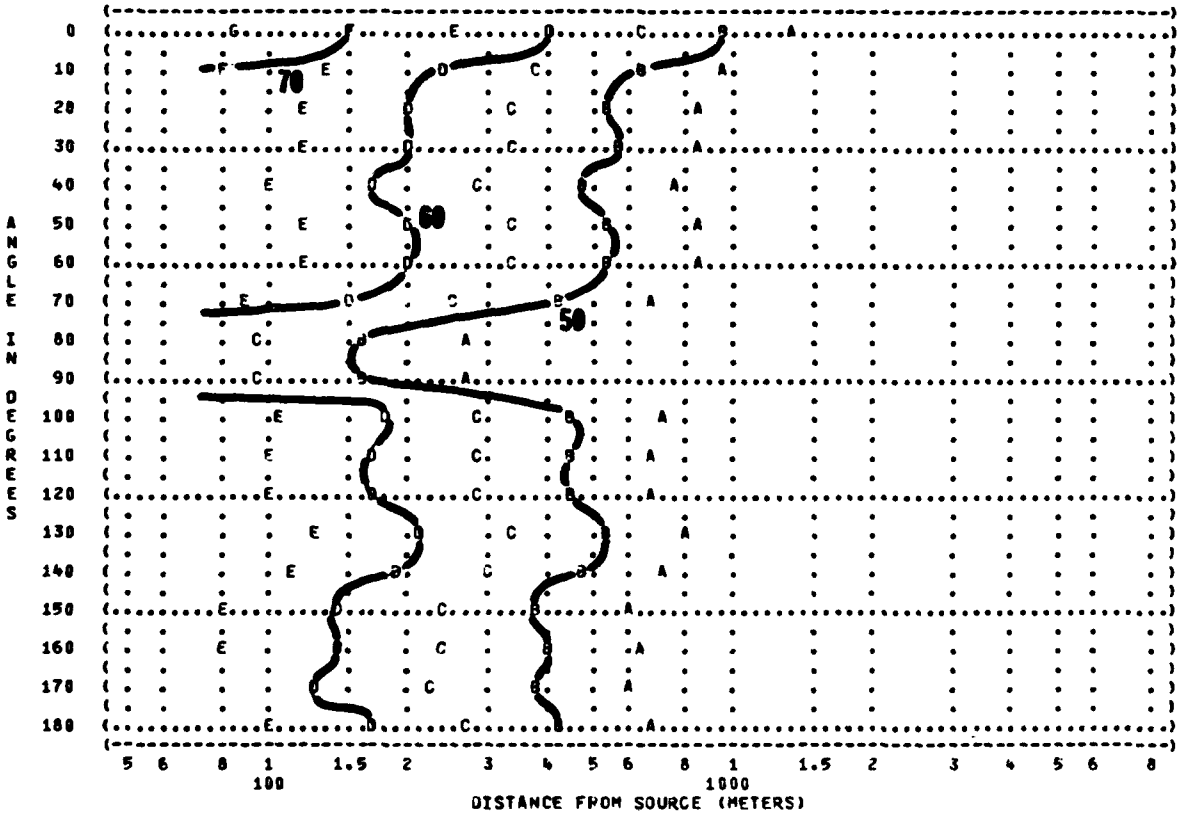


FIGURE: 11.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (OBA)

IDENTIFICATION:
OMEGA 1.4
TEST AF-714-001
RUN 08
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT: F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION: AFTERBURNER PWR(2.4 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C, BAR PRESS = .760 M HG, REL HUMID = 70 %

POINT	OBA
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

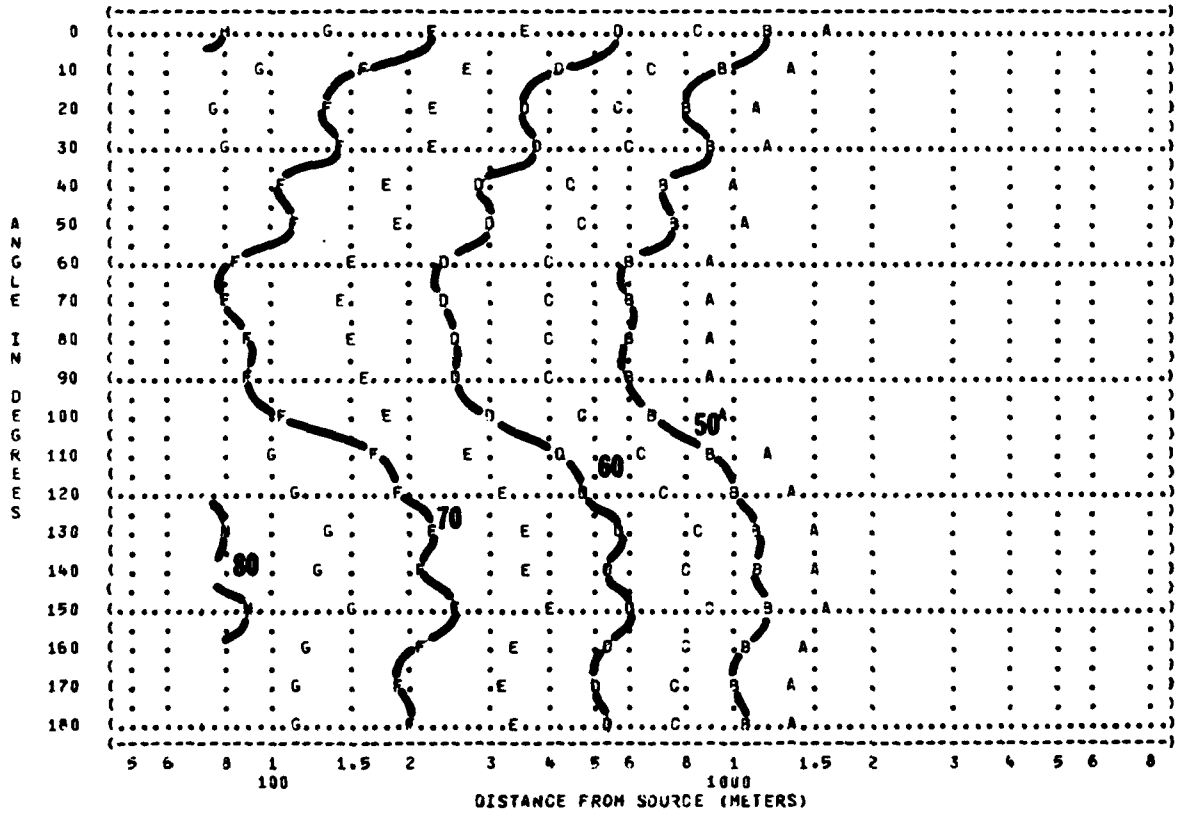


FIGURE: 11.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION:
80% RPM (1.07 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 01
26 OCT 81
PAGE 16

POINT	PNDB
A	60
B	65
C	70
D	75
E	80

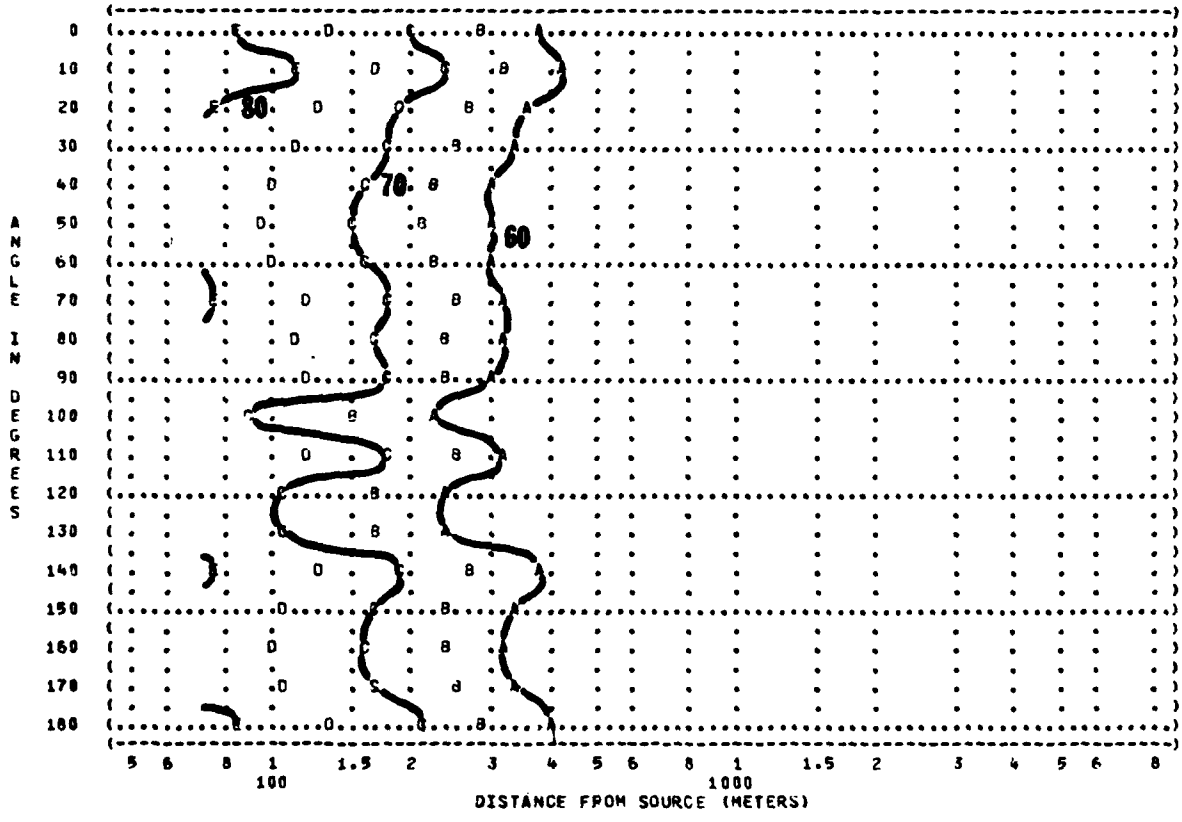


FIGURE: 11.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT: F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION: MILITARY POWER (2.4 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C, BAR PRESS = .760 M HG, REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4, TEST BF-714-081, RUN 02, 26 OCT 81, PAGE 16

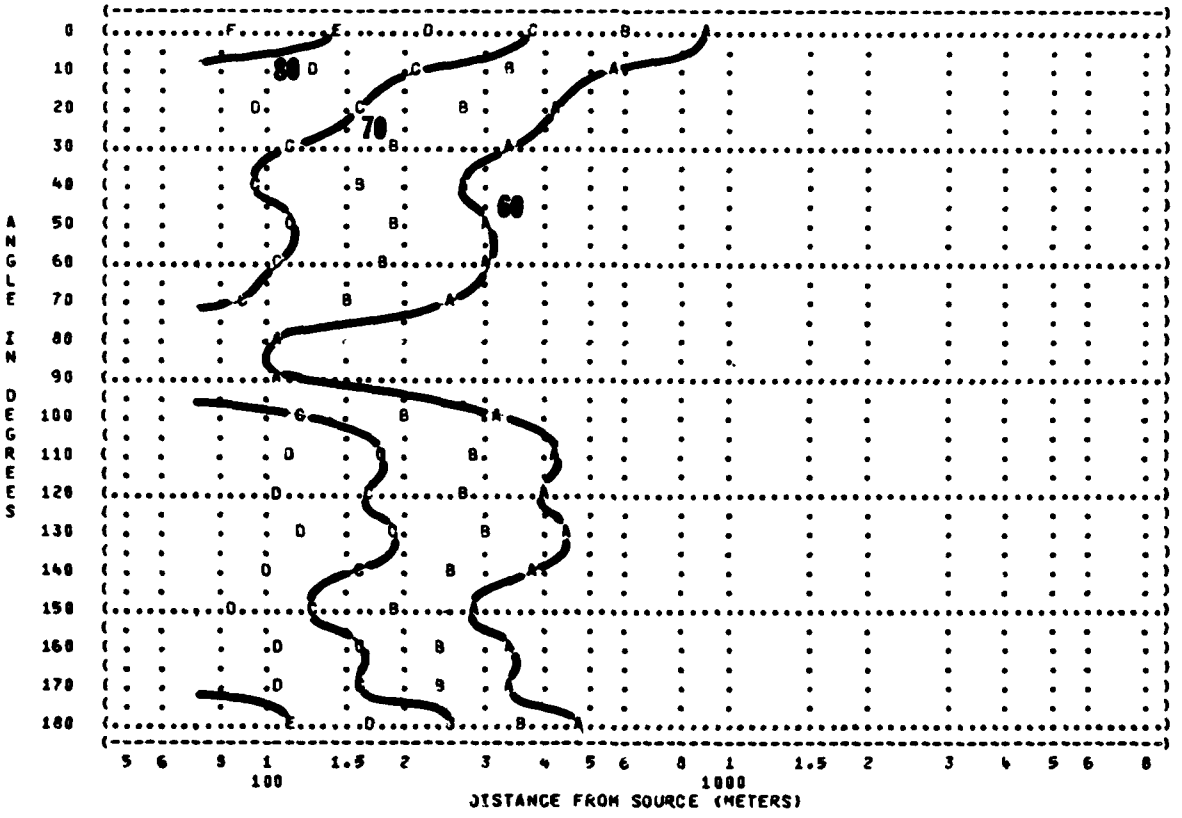


FIGURE: 11.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 03
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
AFTERBURNER PWR(2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95

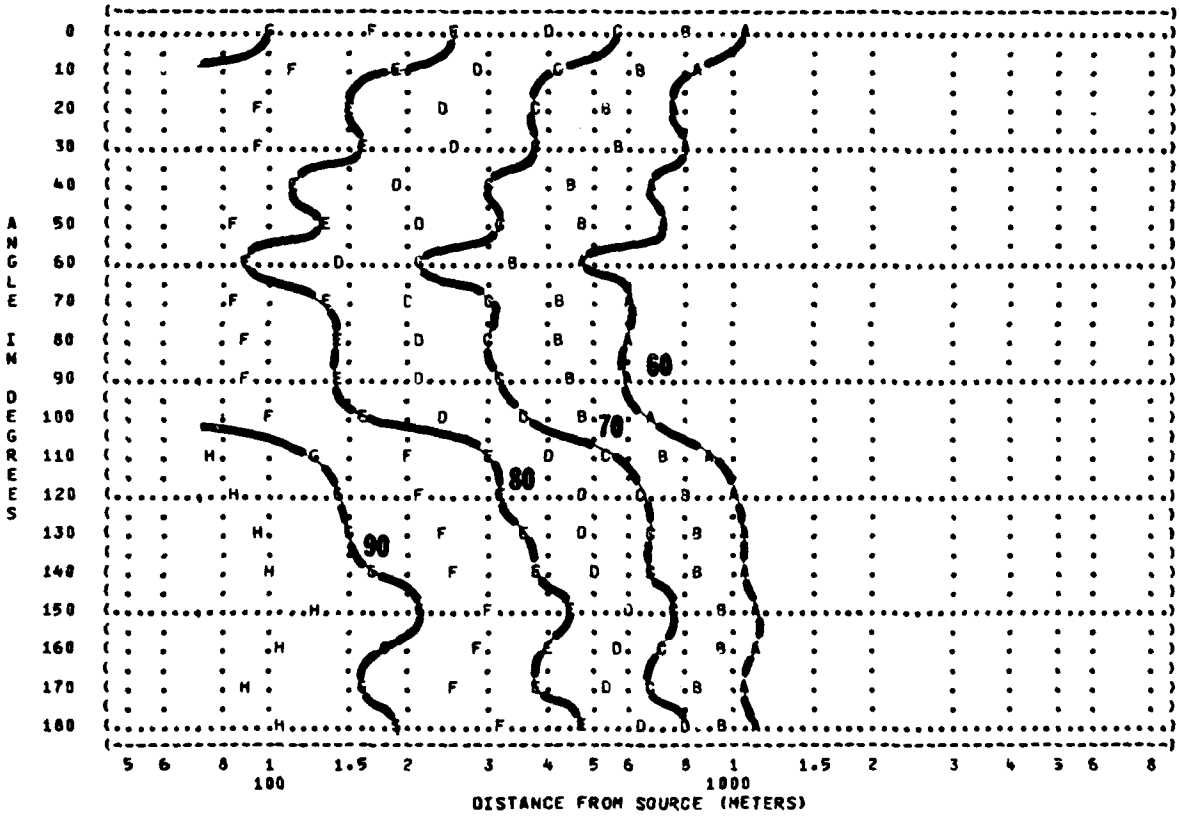


FIGURE 11.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (D9)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-714-001
RUN 01
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION:
80% RPM (1.07 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

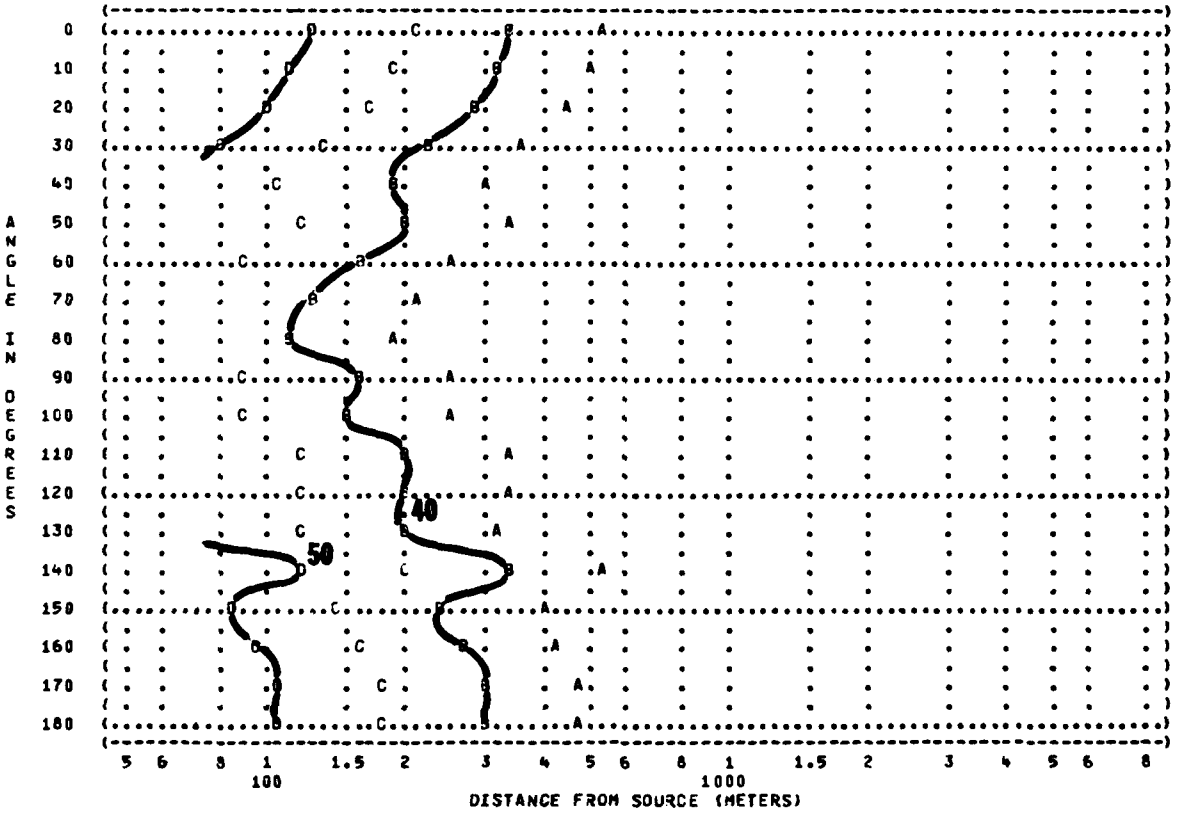


FIGURE 11.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 02
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

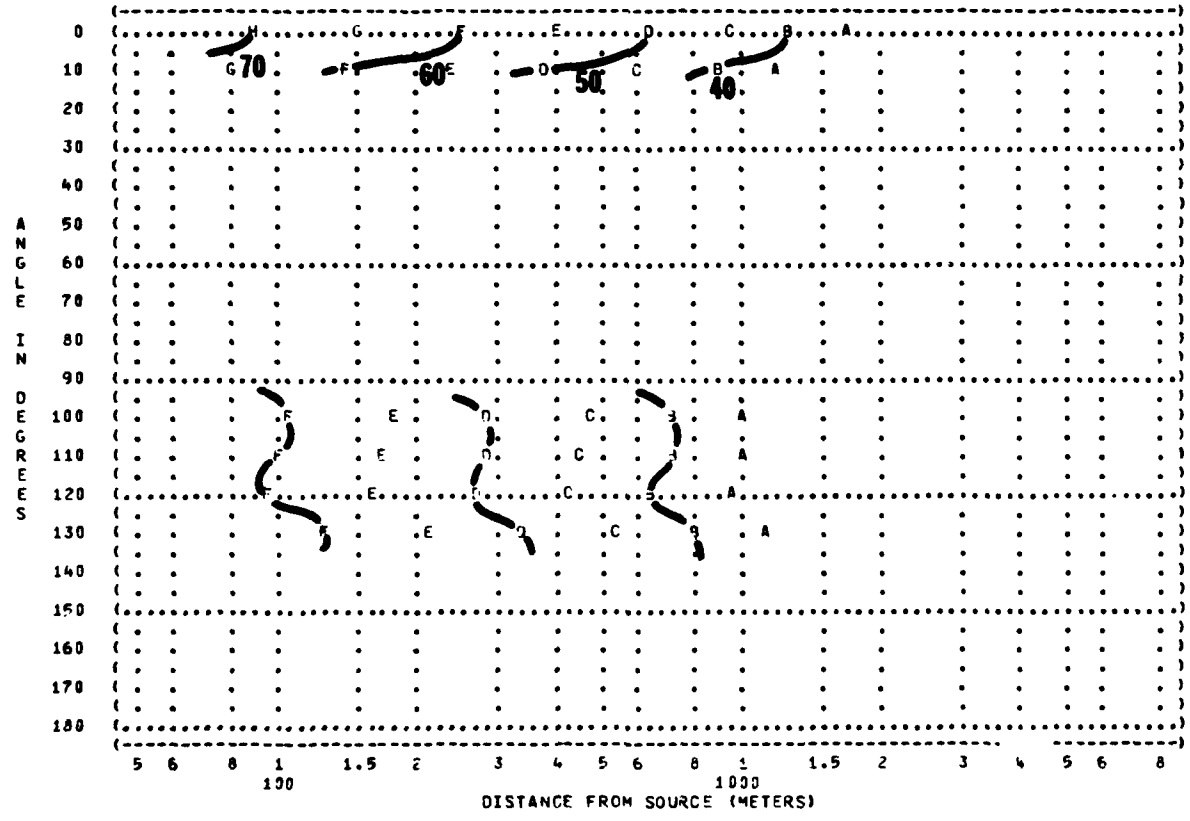


FIGURE: PREFERRED SPEECH INTERFERENCE LEVEL (PSIL)
11.6 EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-081
RUN 03
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
AFTERBURNER PWR(2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

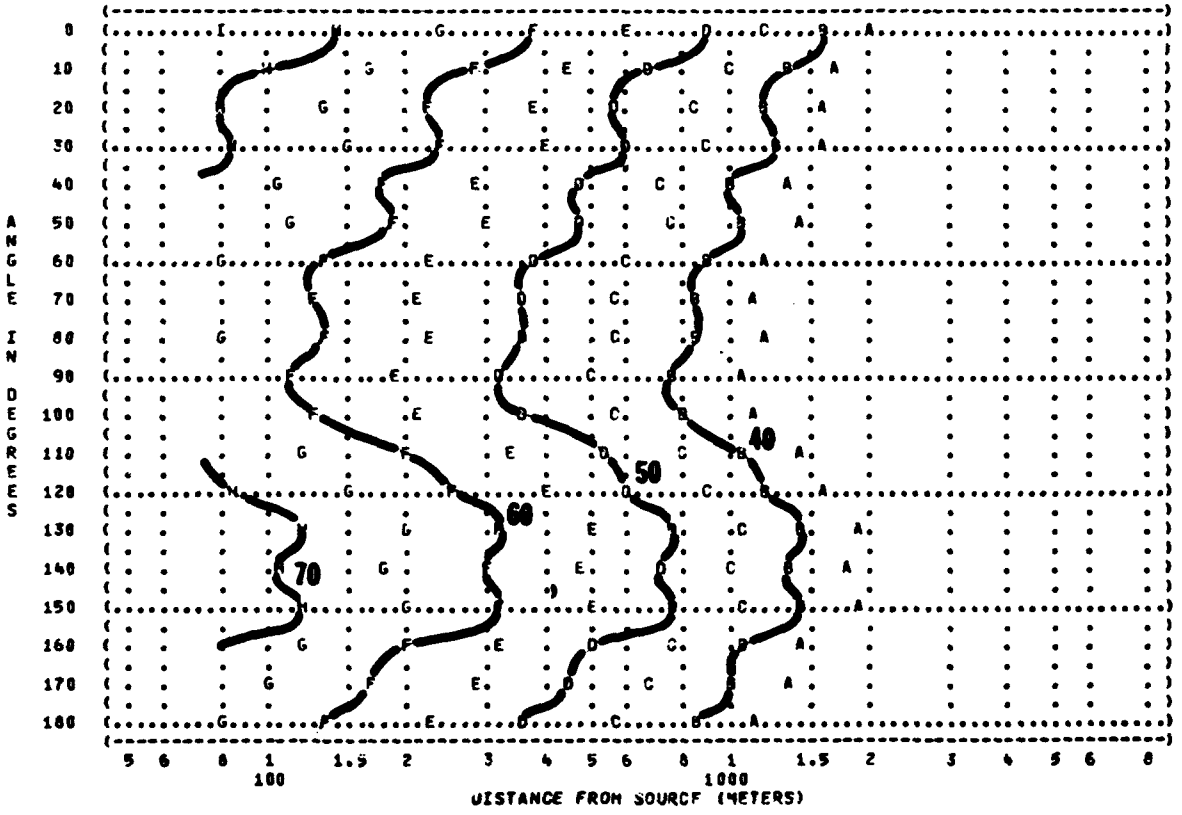


FIGURE 11.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-081
RUN 01
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
88% RPM (1.07 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

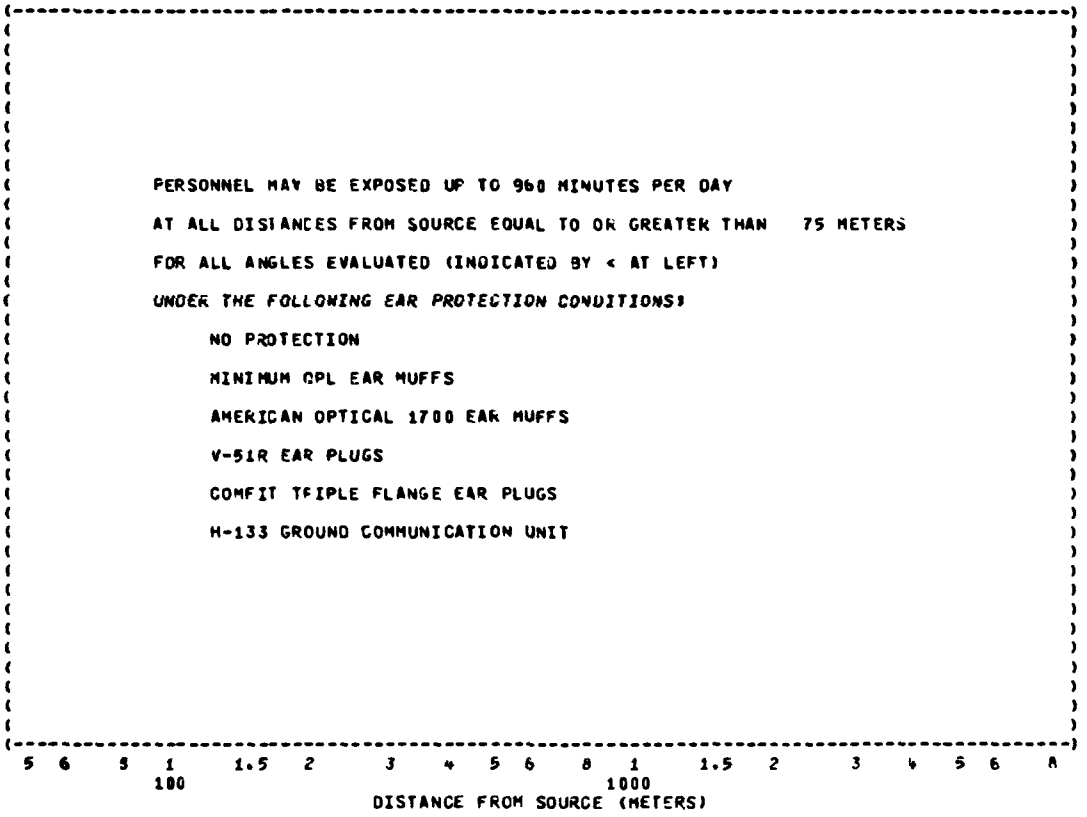


FIGURE 11.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 02
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

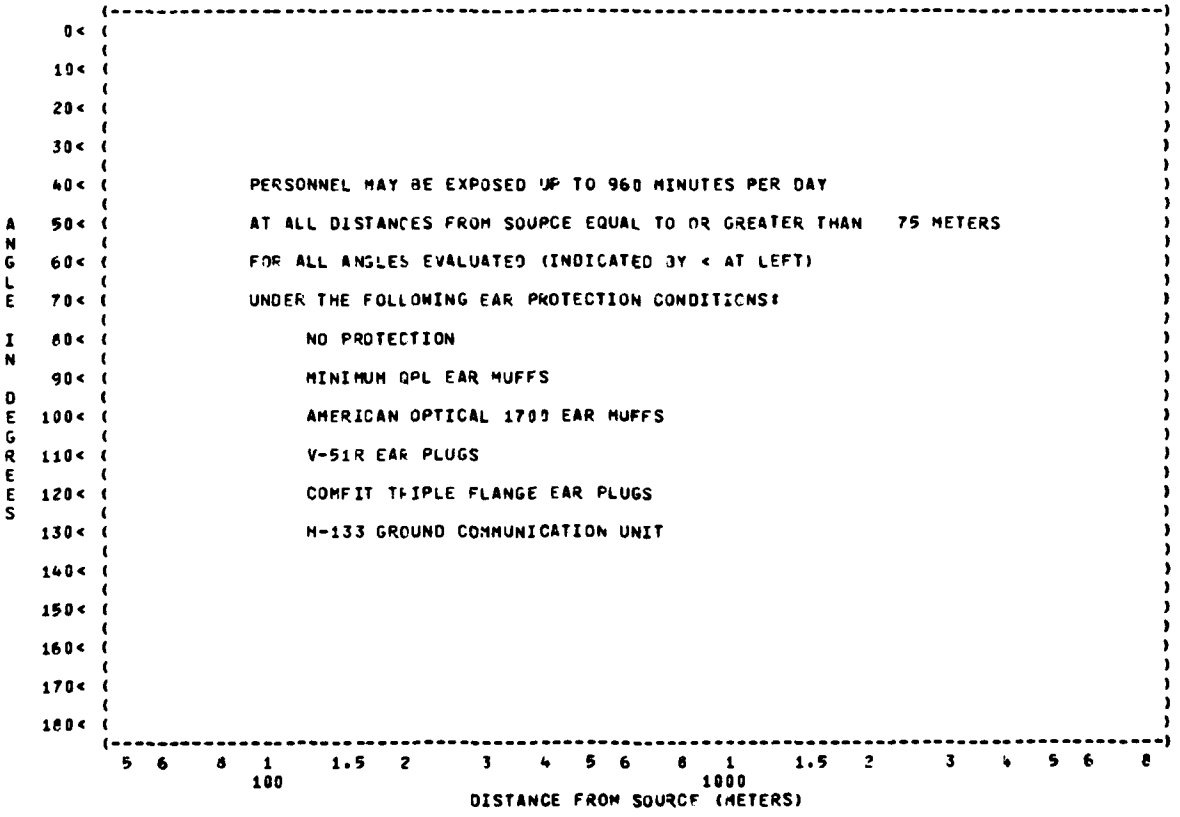


FIGURE: 11.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)
NO PROTECTION

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 03
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
AFTERBURNER PWR(2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT A MIN 960

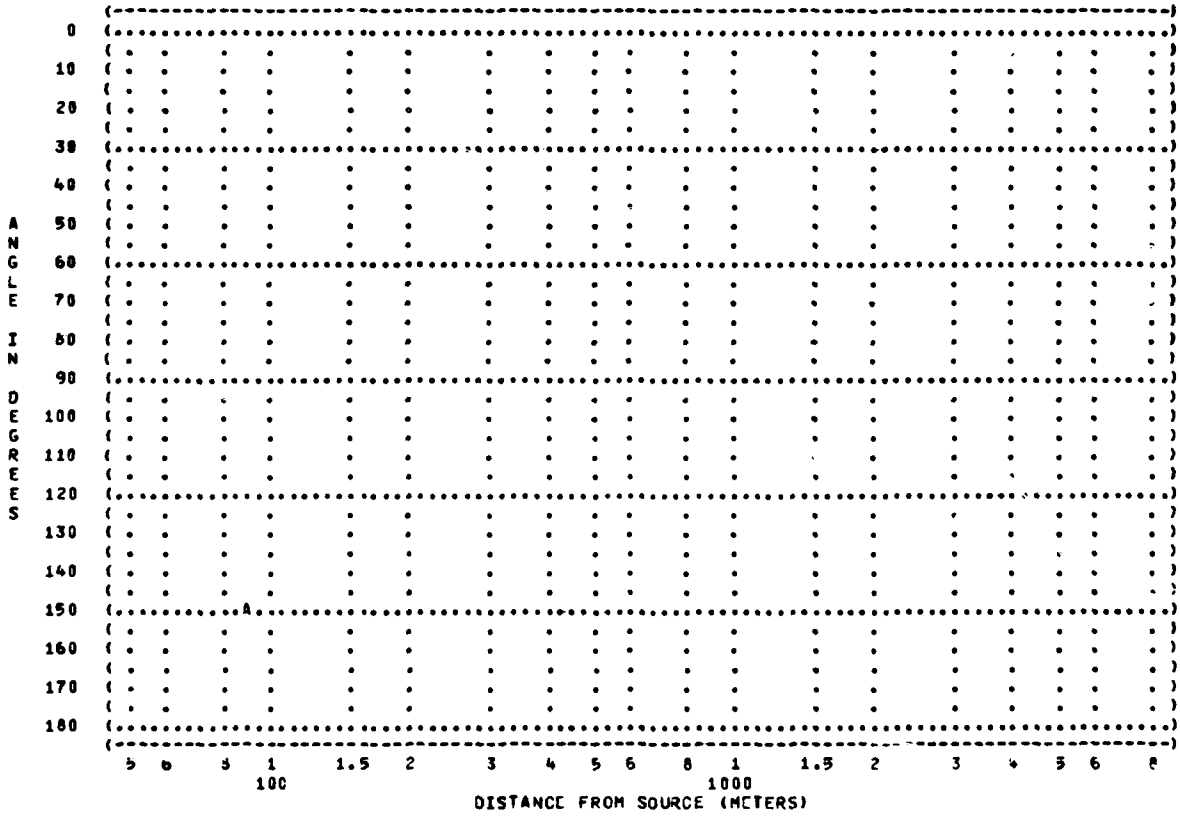


FIGURE 11.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 03
26 OCT 81
PAGE 8

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
AFTERBURNER PWR(2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

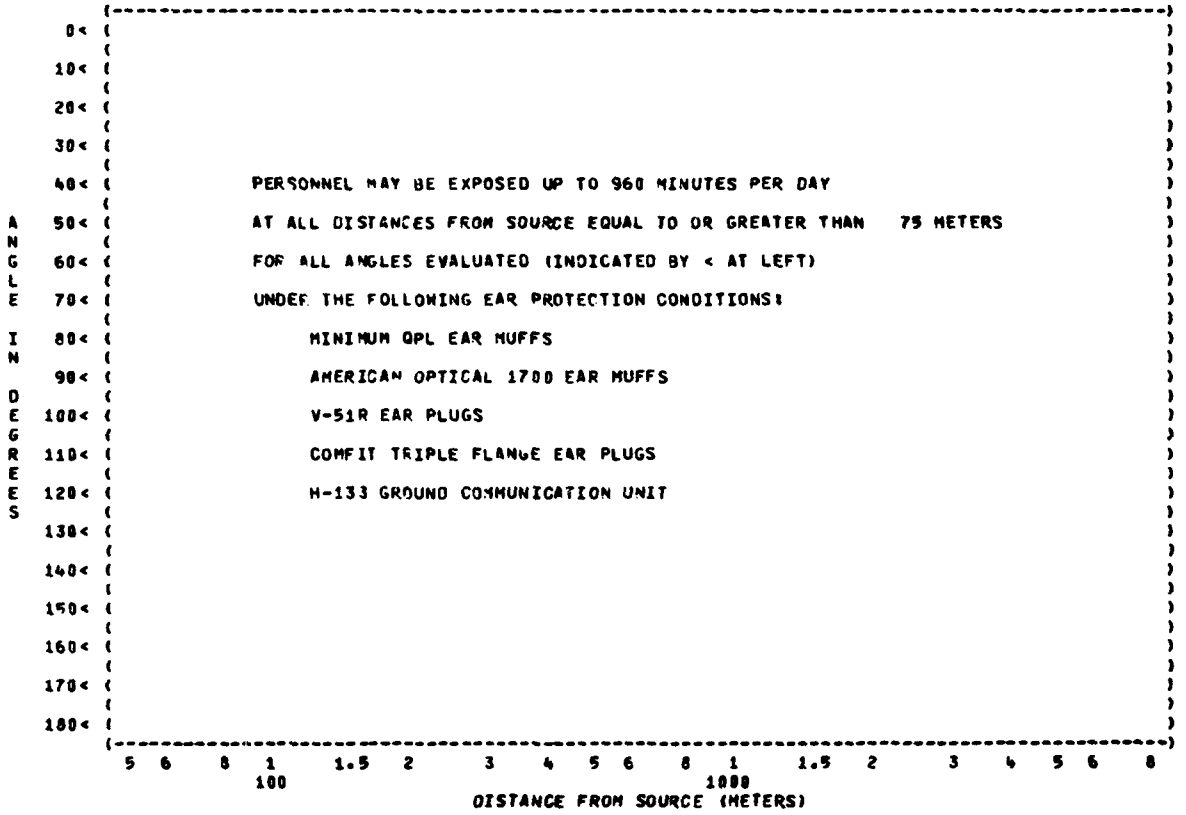


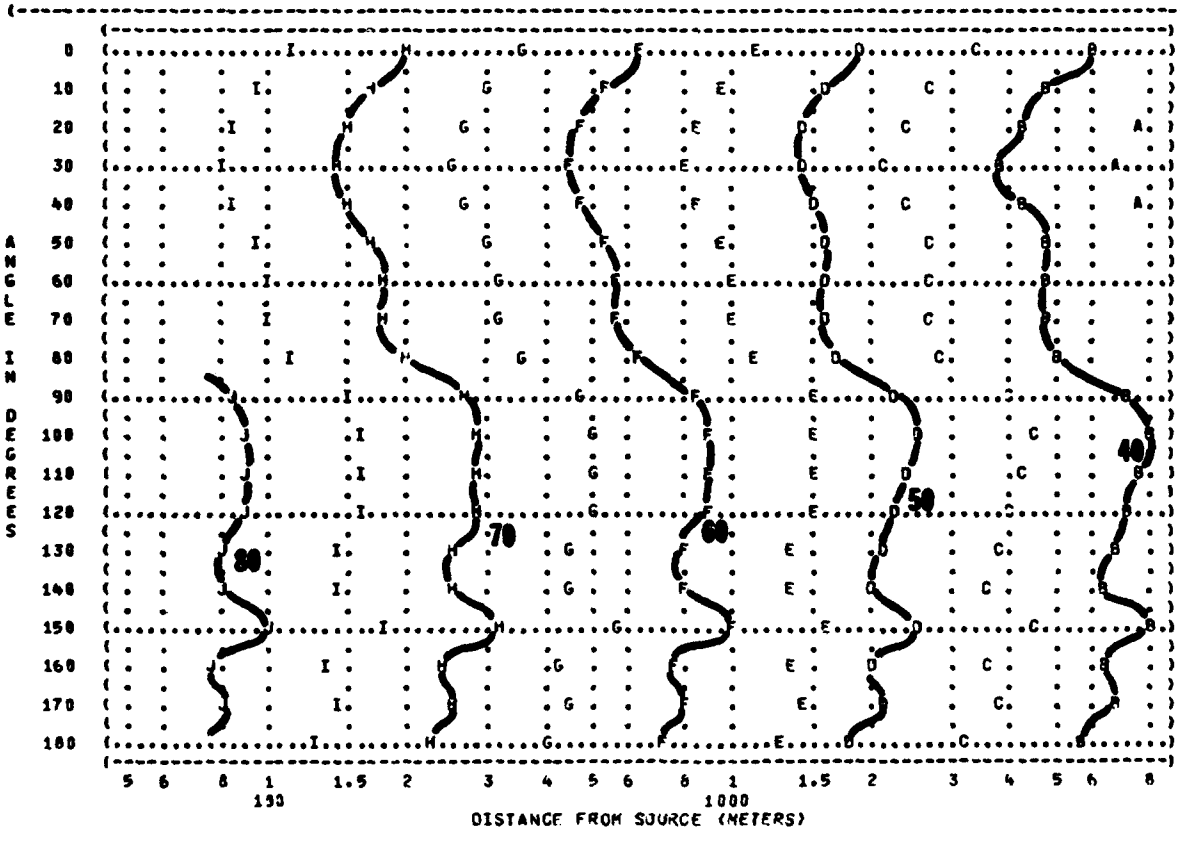
FIGURE: 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST AF-714-001
RUN 01
26 OCT 91
PAGE 19

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
80% RPM (1.07 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M MS
REL HUMID = 70 %



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

FIGURE 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/1E ENGINE) FAR FIELD NOISE

OPERATION: 80% RPM (1.07 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-714-001 RUN 01 26 OCT 81 PAGE 19

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

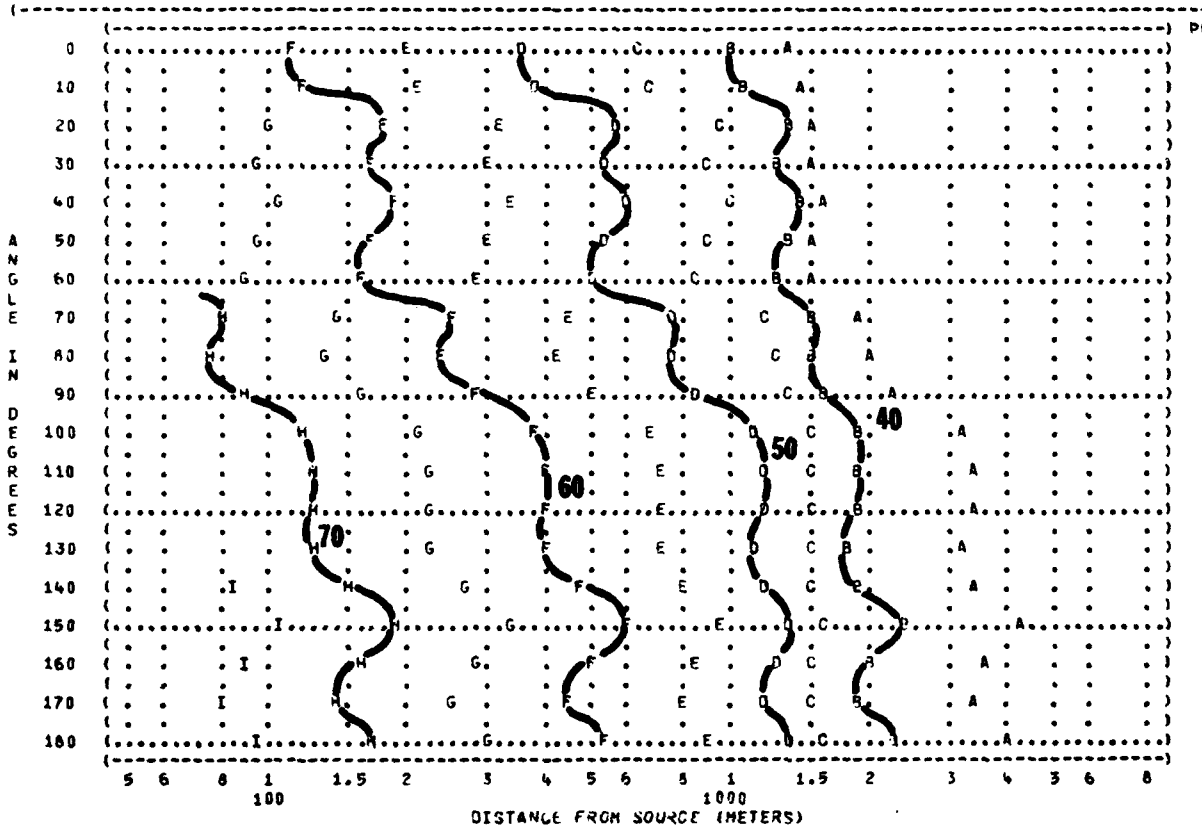


FIGURE: 11.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
63 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 01
26 OCT 81
PAGE 28

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
80% RPM (1.07 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

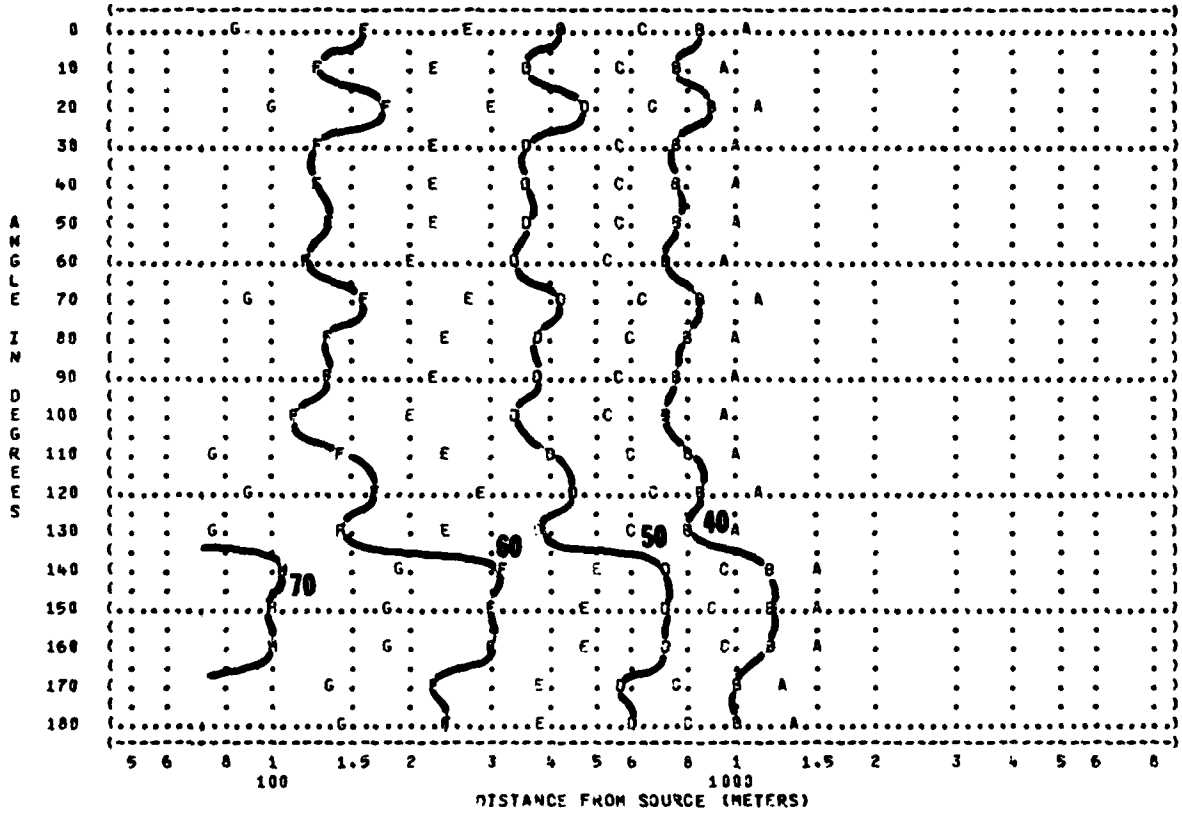


FIGURE: 11.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
125 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 01
26 OCT 81
PAGE 21

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
80% RPM (1.07 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

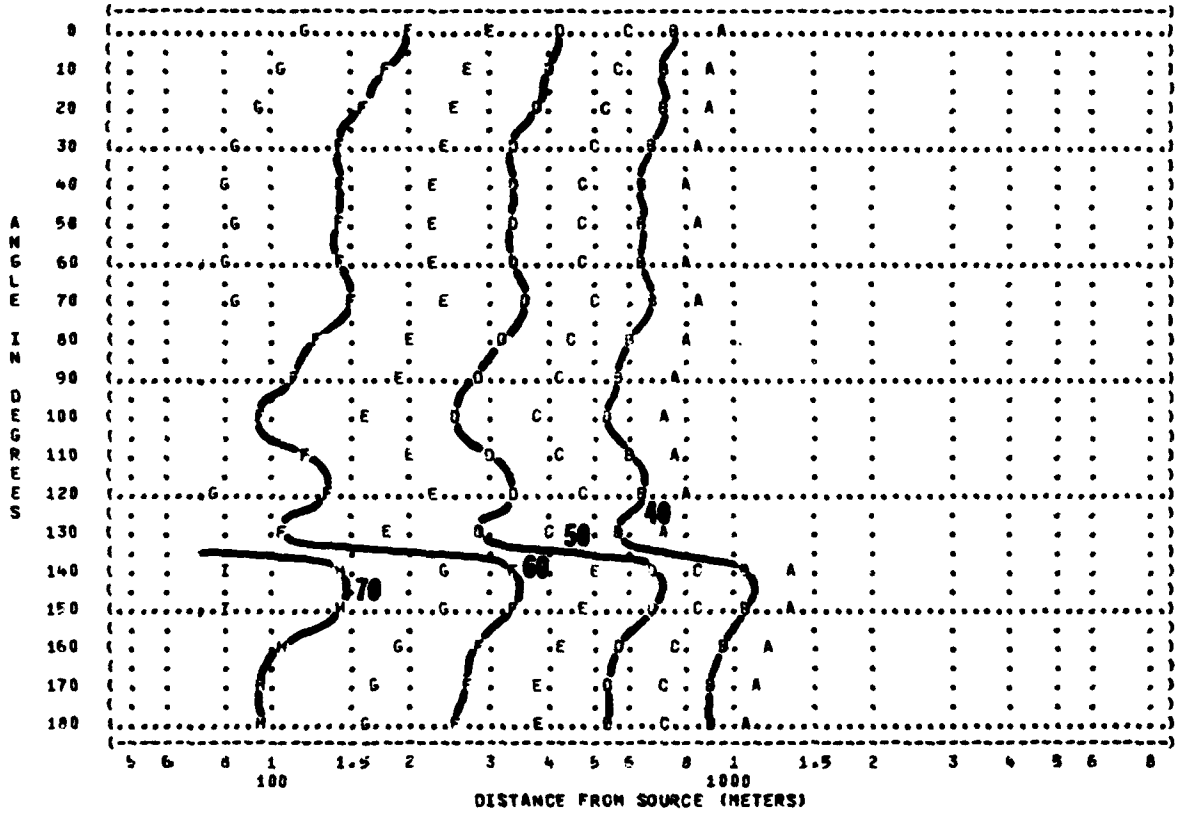


FIGURE 118 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION: 80% RPM (1.07 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST 8F-714-001 RUN 01 26 OCT 81 PAGE 22

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

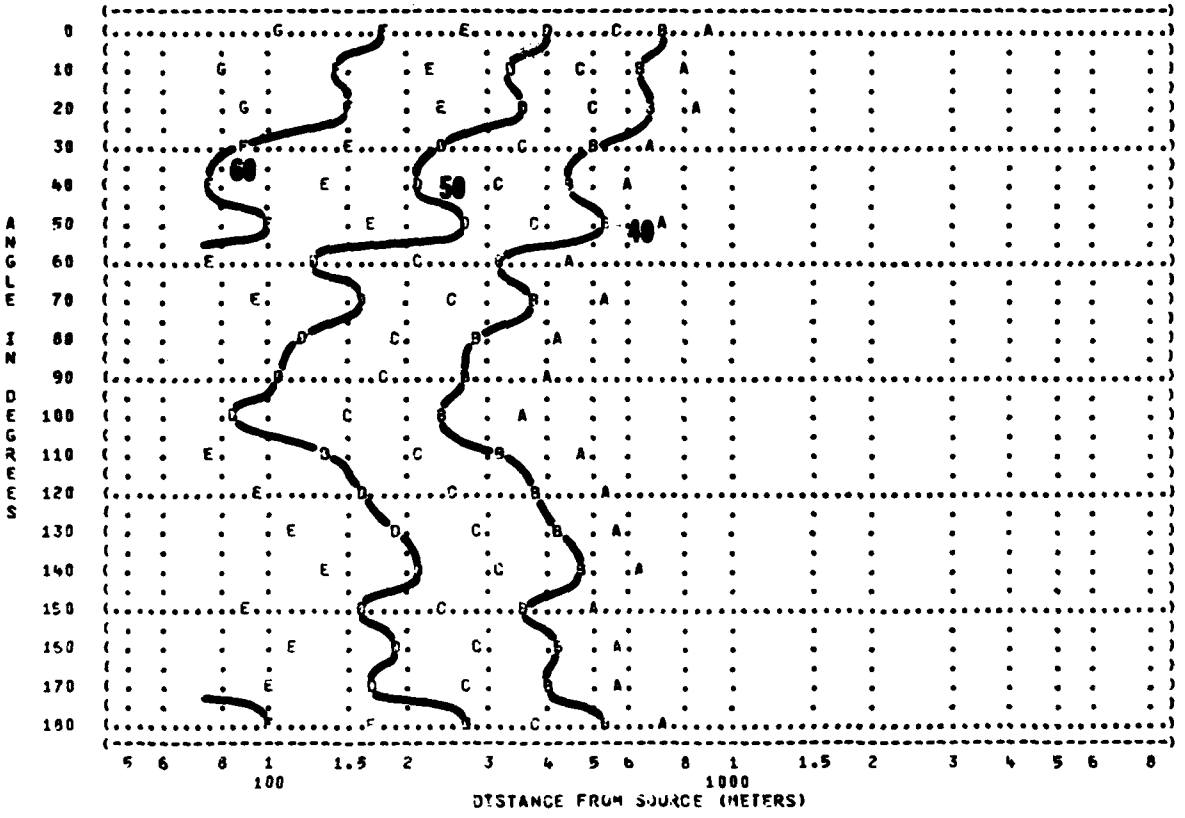


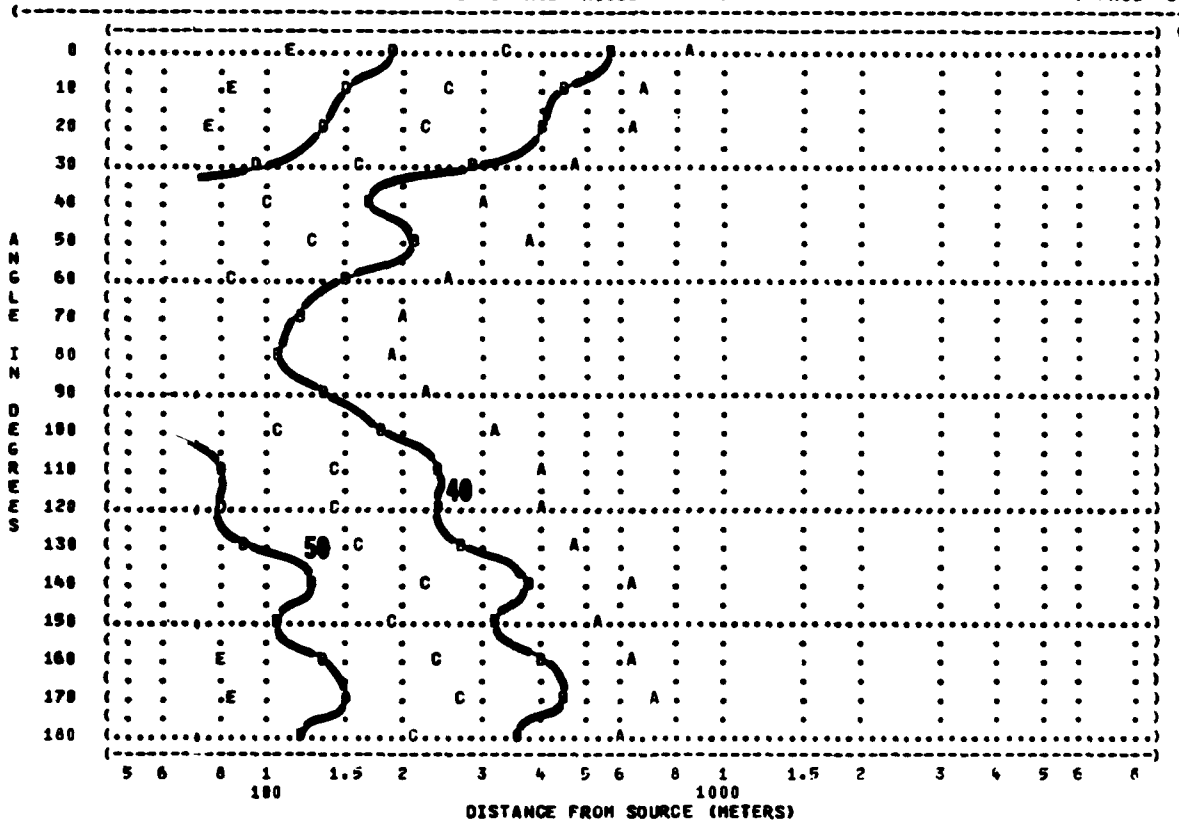
FIGURE: 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F108-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
80% RPM (1.07 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-801
RUN 01
26 OCT 81
PAGE 23



POINT	DB
A	35
B	40
C	45
D	50
E	55

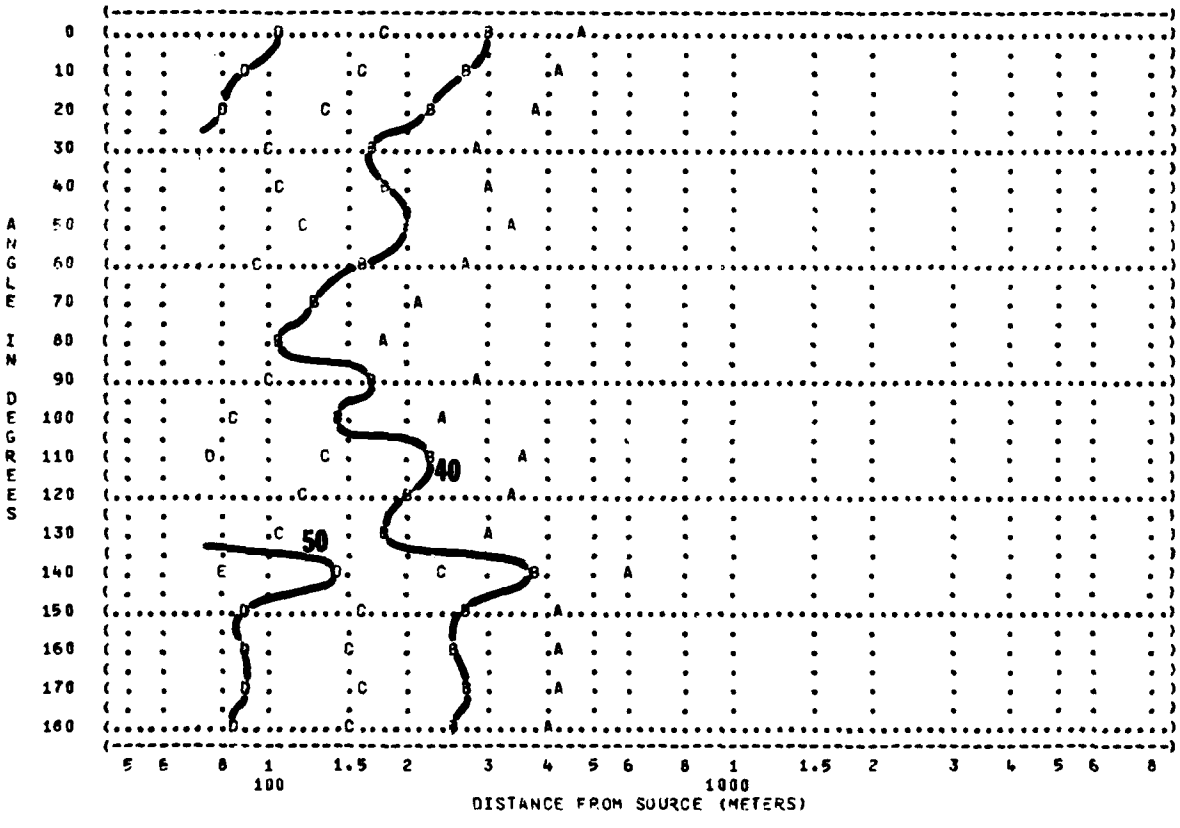
FIGURE: 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
80% RPM (1.07 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST AF-714-001
RUN 01
26 OCT 81
PAGE 24



POINT	DB
A	35
B	40
C	45
D	50
E	55

FIGURE: 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (dB) 2000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST 9F-714-081
RUN 01
26 OCT 81
PAGE 25

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION:
80% RPM (1.07 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

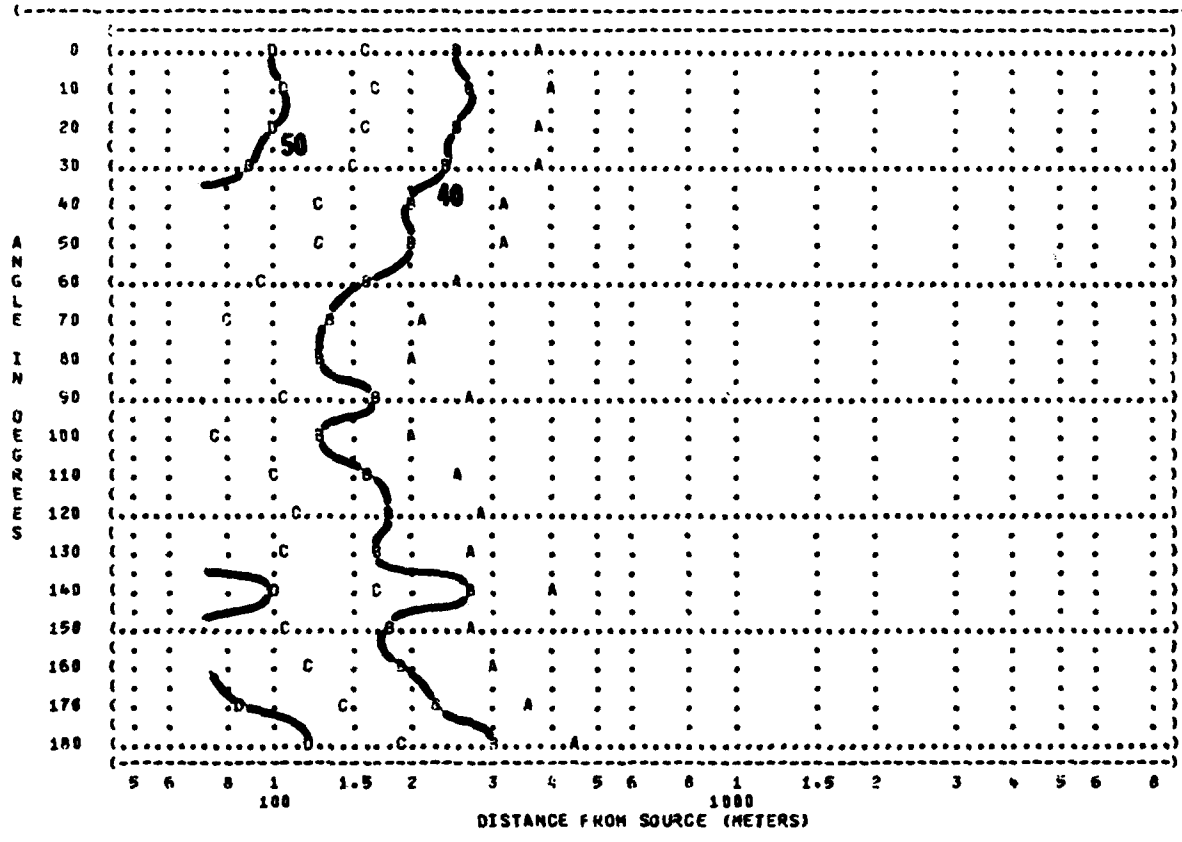


FIGURE 11.8 SOUND PRESSURE LEVEL (SEL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION: 80% RPM (1.07 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M MS REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST AF-714-001 RUN 01 26 OCT 81 PAGE 26

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

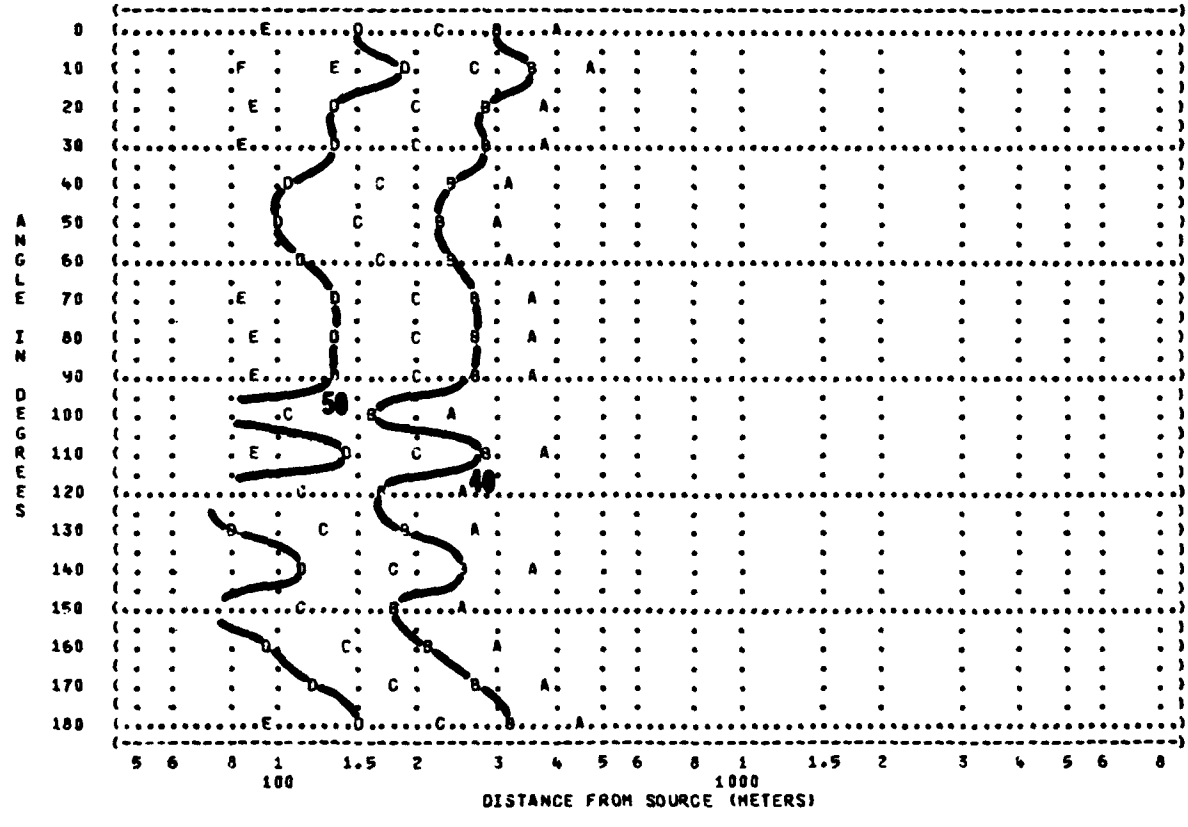


FIGURE: 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION: 80% RPM (1.07 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-714-001 RUN 01 26 OCT 81 PAGE 27

POINT	DB
A	35
B	40
C	45
D	50
E	55

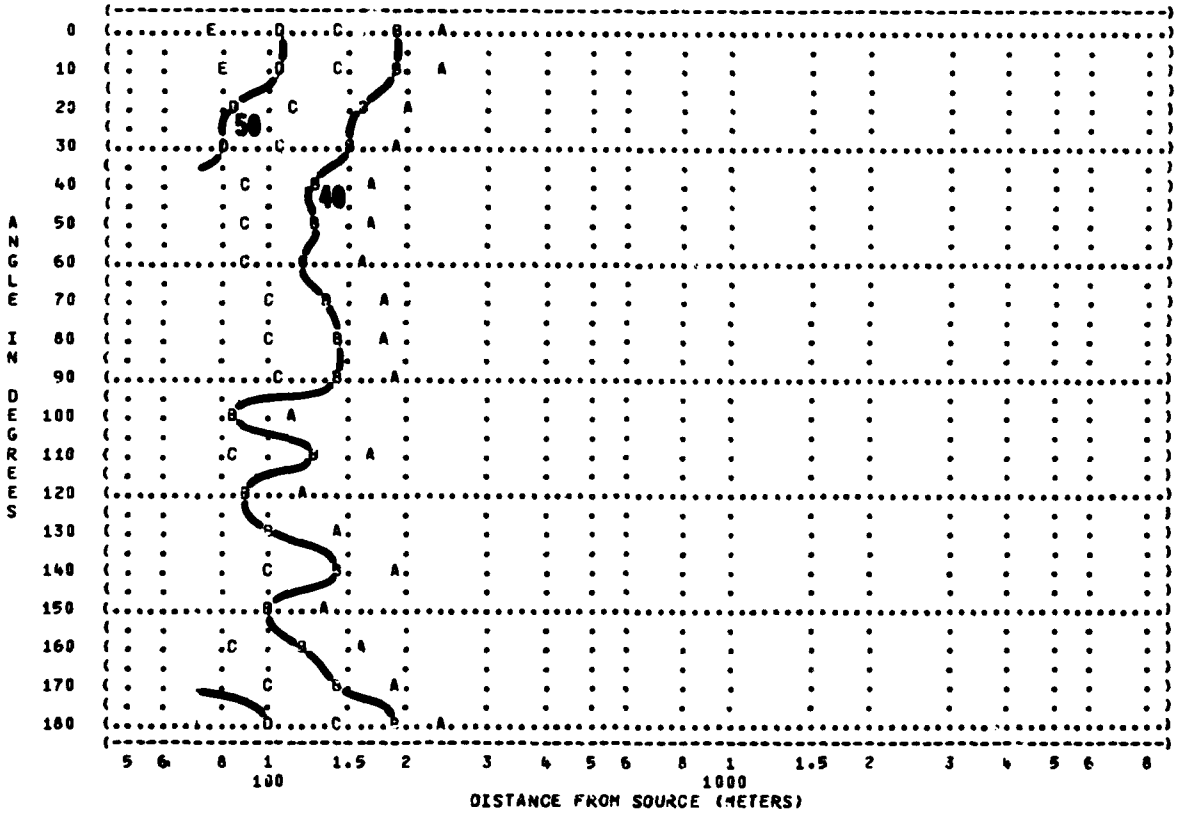


FIGURE: 11.8

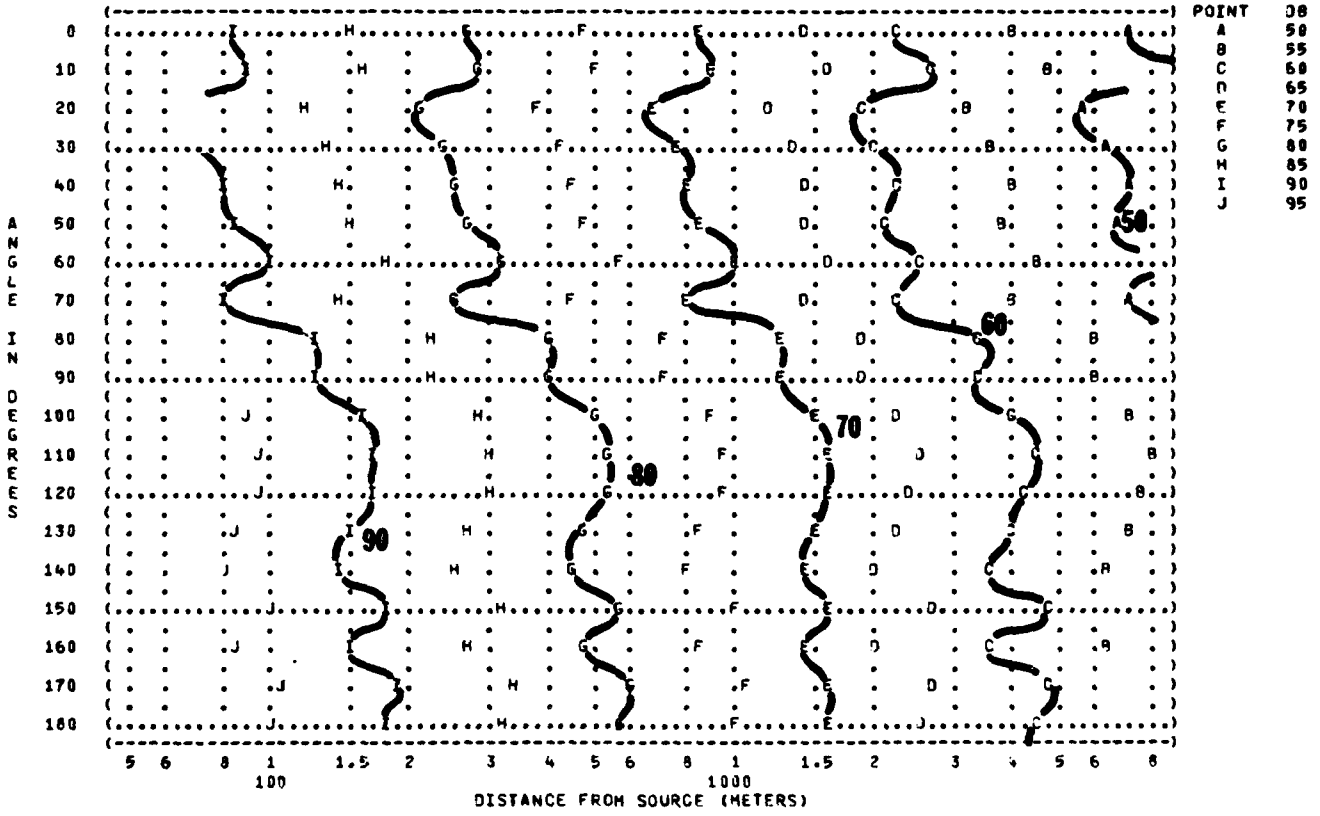
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST AF-714-001
RUN 02
26 OCT 81
PAGE 18



POINT	DB
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95

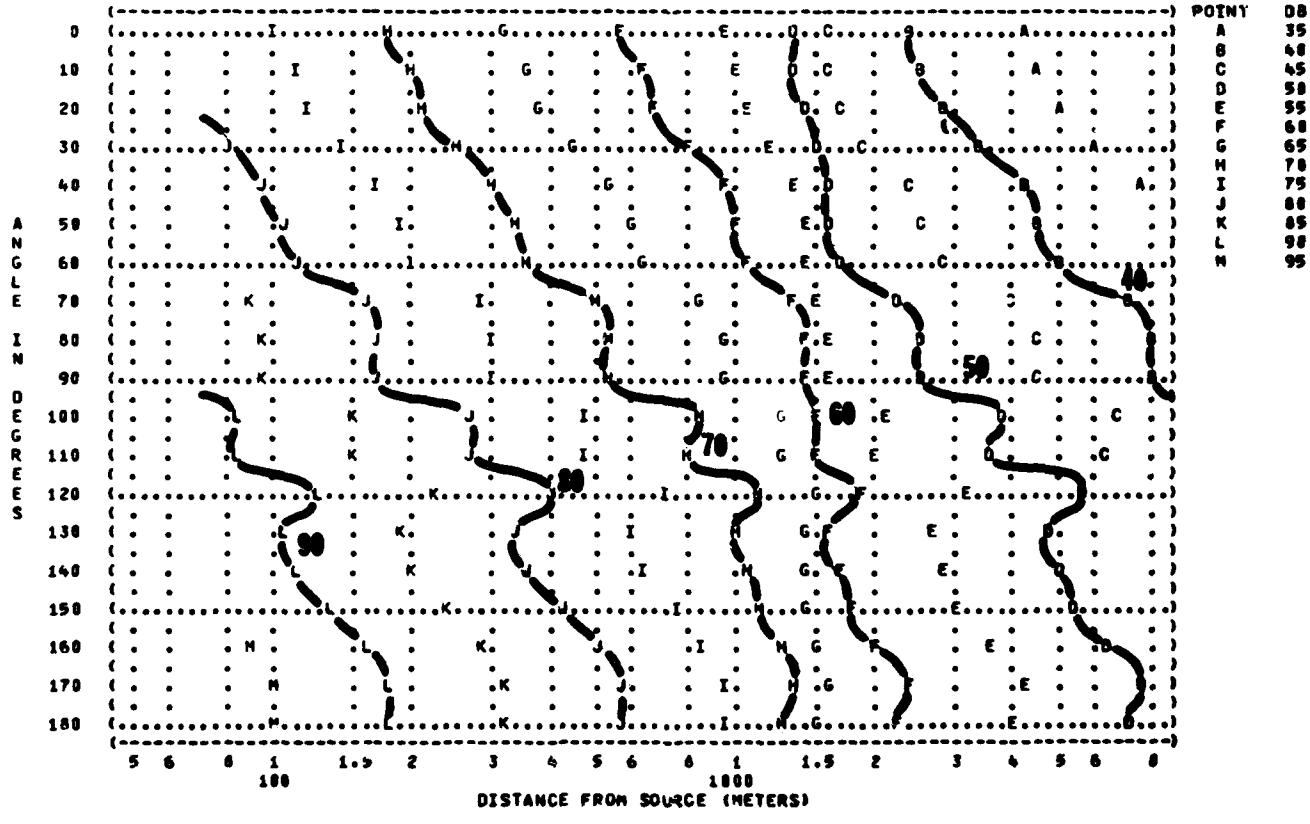
FIGURE: 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 02
26 OCT 81
PAGE 19

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95

FIGURE 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION: MILITARY POWER (2.4 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-714-001 RUN 02 26 OCT 81 PAGE 20

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

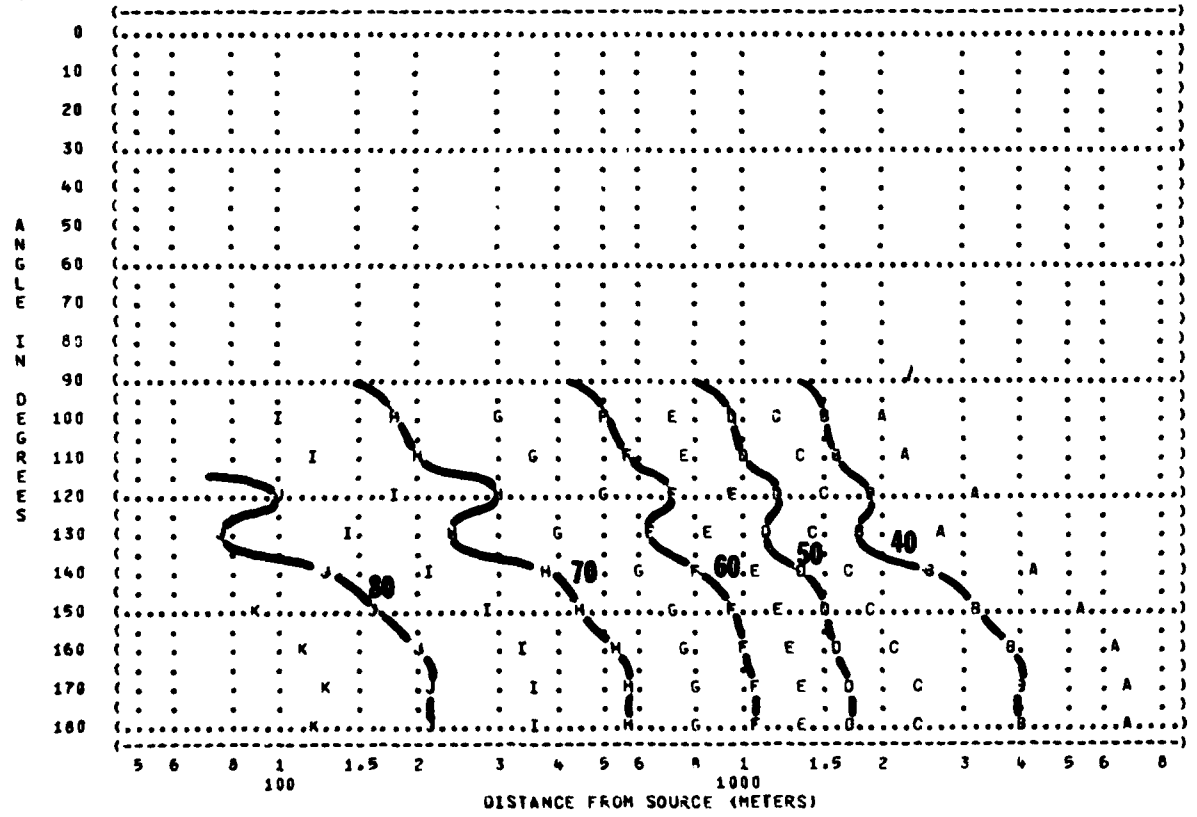


FIGURE:	SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB)	IDENTIFICATION:
11.8	125 HZ OCTAVE BAND	OMEGA 1.4 TEST 8F-714-881

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:	
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE	MILITARY POWER (2.4 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %	RUN 02 26 OCT 81 PAGE 21

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE:	SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND		IDENTIFICATION:
11.8			OMEGA 1.4
NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:	TEST BF-714-001
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE	MILITARY POWER (2.4 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %	RUN 02 26 OCT 81 PAGE 22

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

FIGURE: 11.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
500 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 02
26 OCT 81
PAGE 23

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

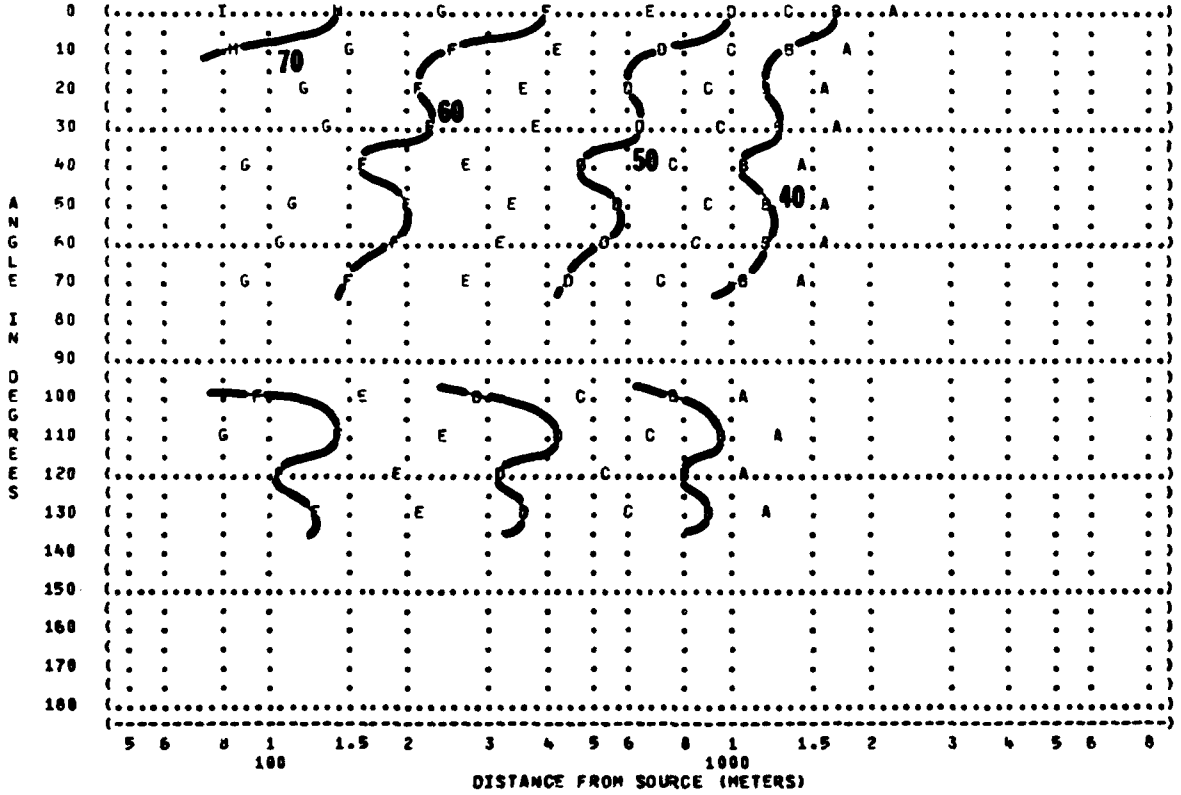


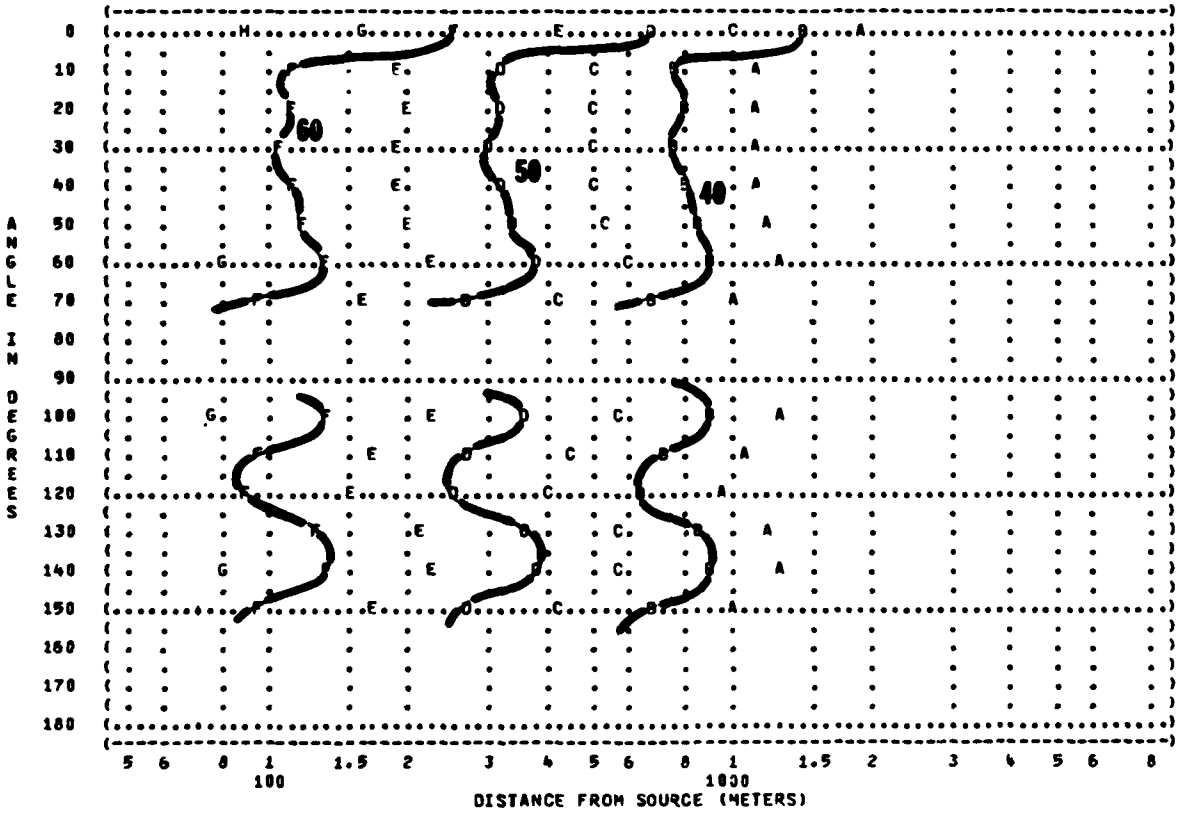
FIGURE 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION: MILITARY POWER (2.4 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-714-001 RUN 02 26 OCT 81 PAGE 24



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE: 11.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 02
26 OCT 81
PAGE 25

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

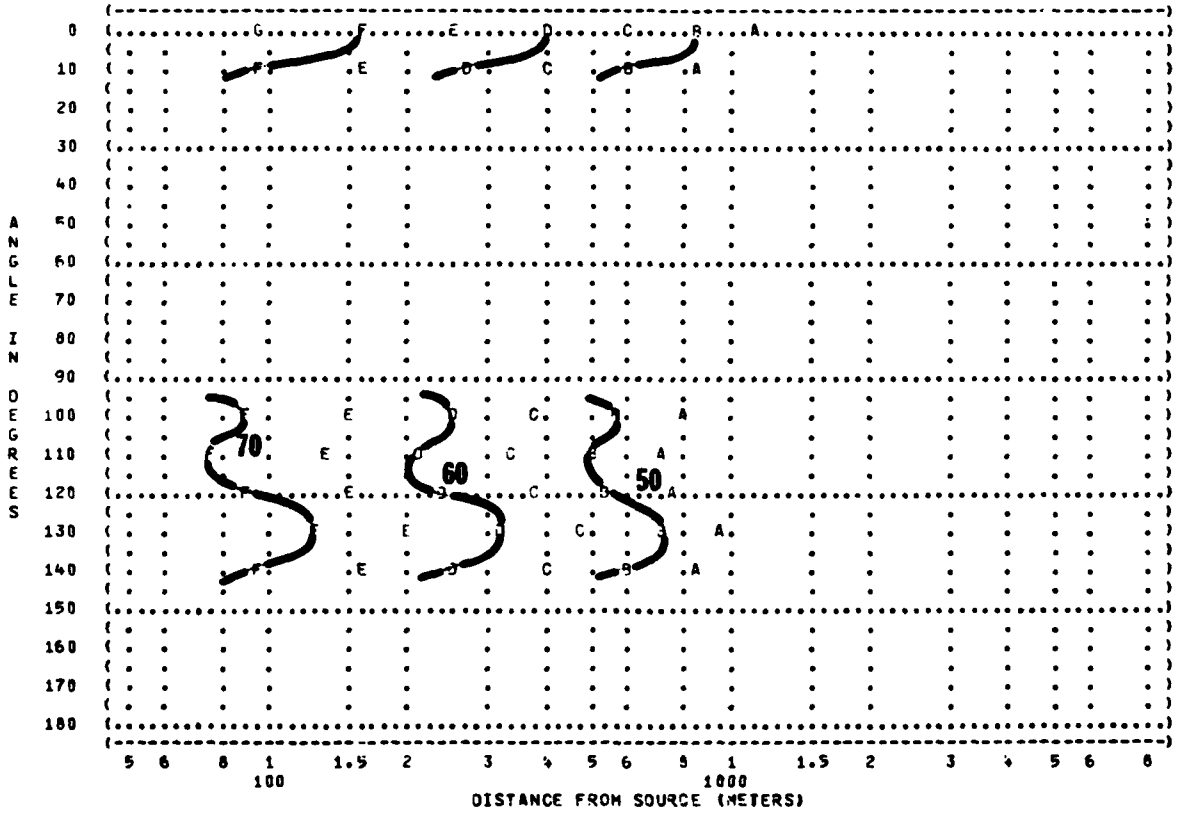


FIGURE:	SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND			IDENTIFICATION:
11.8				OMEGA 1.4
				TEST BF-714-001
NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:		RUN 02
F100-PW-100 ENGINE IN THE	MILITARY POWER (2.4 EPR)	TEMP = 15 C		
TEXAS ASE HUSH HOUSE	SINGLE ENGINE	BAR PRESS = .760 M HG		26 OCT 81
(F-15/16 ENGINE)	GROUND RUNUP IN THE	REL HUMID = 70 %		
FAR FIELD NOISE	TEXAS ASE HUSH HOUSE			PAGE 26

NO CONTOUR DATA---EITHER NO INPUT DATA WERE COMPUTED (=9999.0)
OR MINIMUM CONTOUR LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.

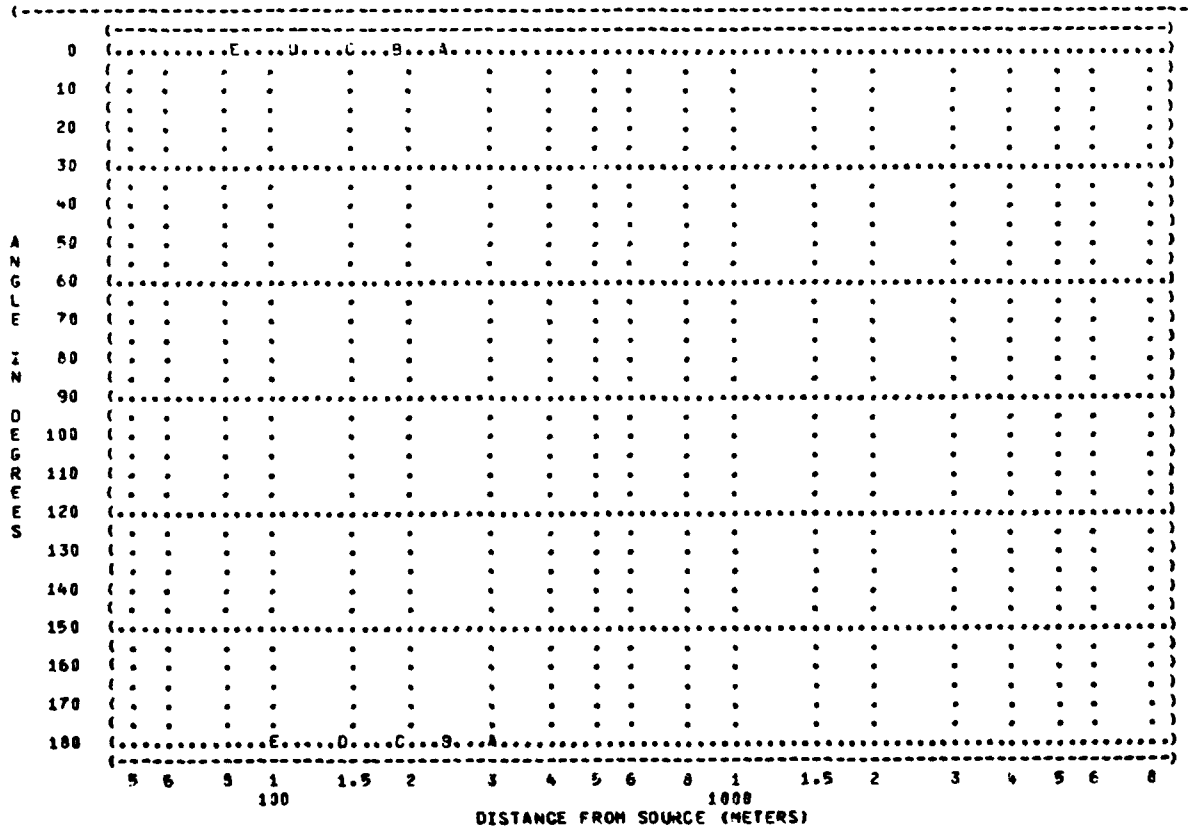
FIGURE 11.8 SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (D3)
8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATIONS:
OMEGA 1.4
TEST BF-714-001
RUN 02
26 OCT 81
PAGE 27



POINT	DB
A	35
B	40
C	45
D	50
E	55

FIGURE: 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-714-881 RUN 03 26 OCT 81 PAGE 18

NOISE SOURCE/SUBJECT: F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION: AFTERBURNER PWR(2.4 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 78 %

POINT	DB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95
I	100
J	105

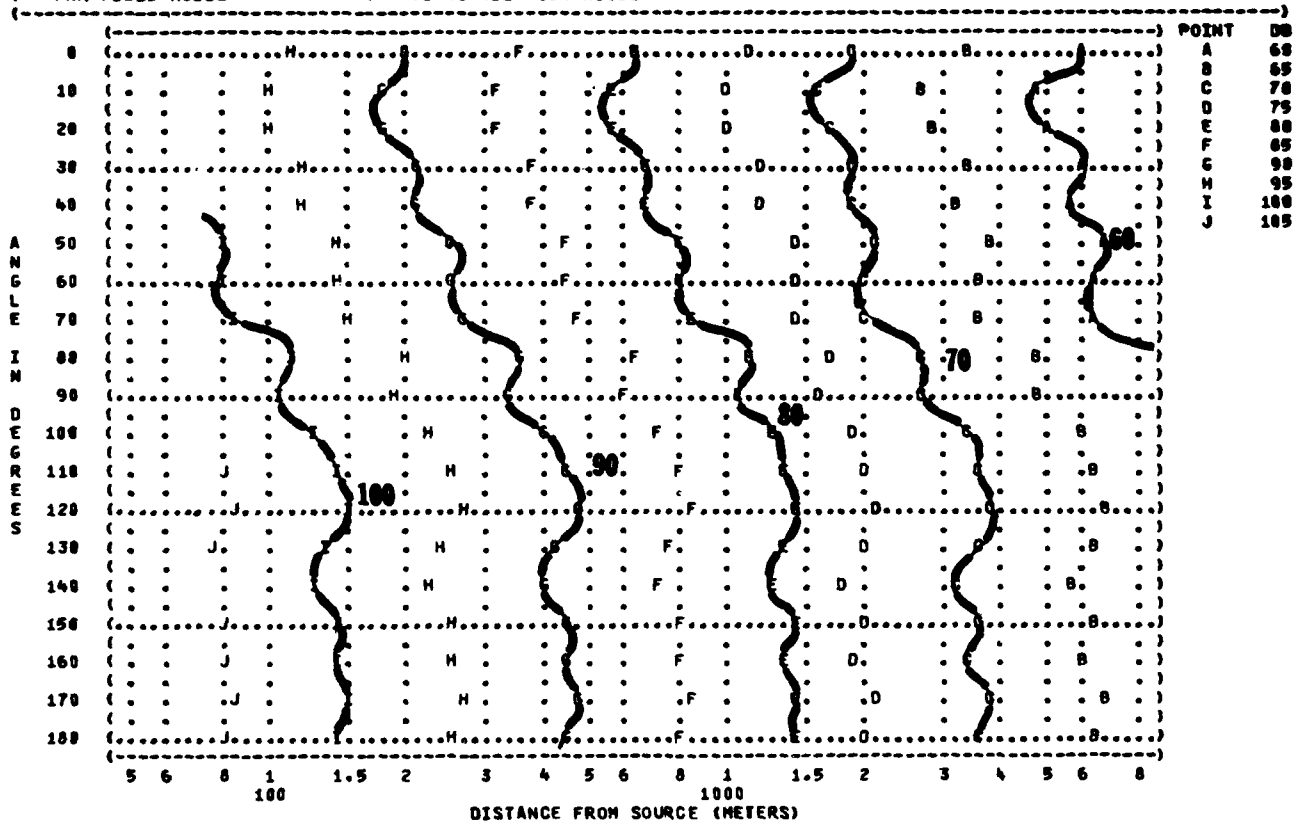


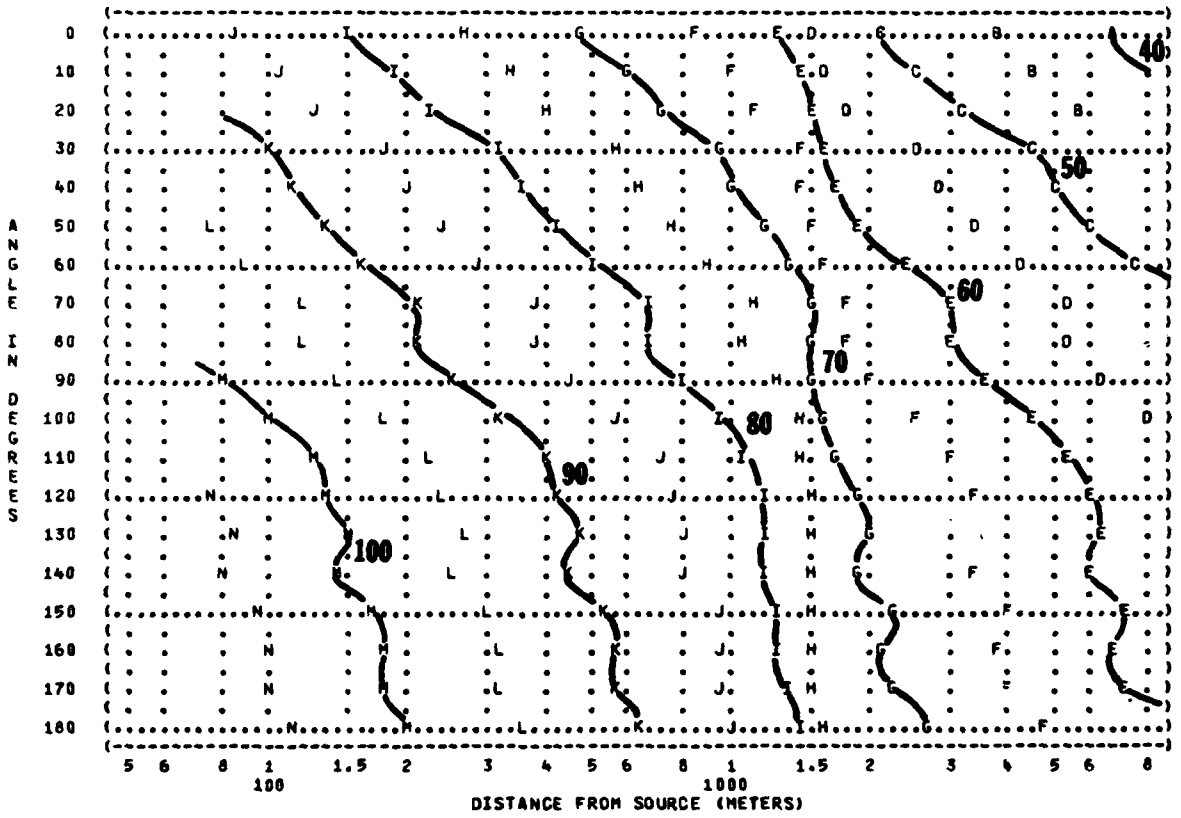
FIGURE 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION: AFTERBURNER PWR(2.4 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-714-001 RUN 03 26 OCT 81 PAGE 19



POINT	DB
A	40
B	45
C	50
D	55
E	60
F	65
G	70
H	75
I	80
J	85
K	90
L	95
M	100
N	105

FIGURE 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-714-001 RUN 03 26 OCT 81 PAGE 20

NOISE SOURCE/SUBJECT: F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION: AFTERBURNER PWR(2.4 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95
N	100

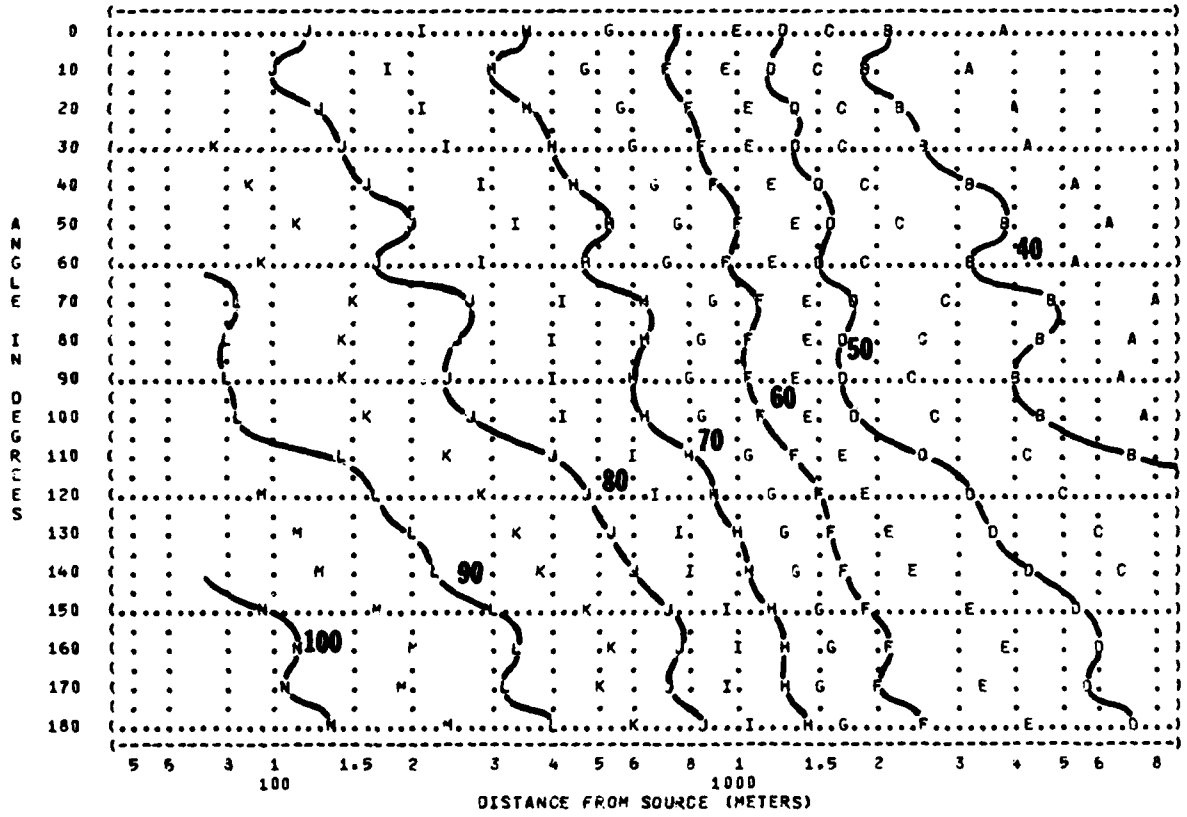


FIGURE: 11.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
AFTERBURNER PWR(2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-714-001
RUN 03
26 OCT 81
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POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

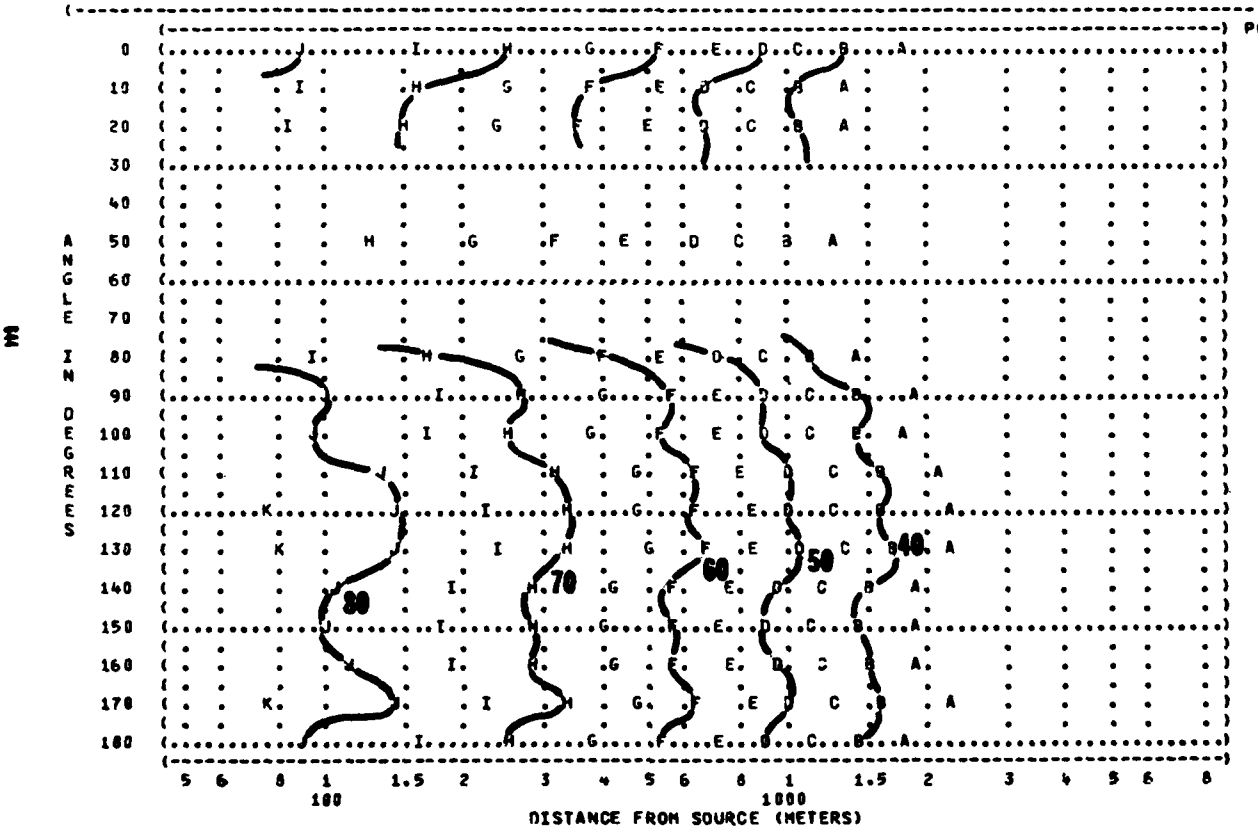

FIGURE: 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST 8F-714-881
RUN 83
26 OCT 81
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NOISE SOURCE/SUBJECT: F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION: AFTERBURNER PWR(2.4 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C, BAR PRESS = .760 M HG, REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

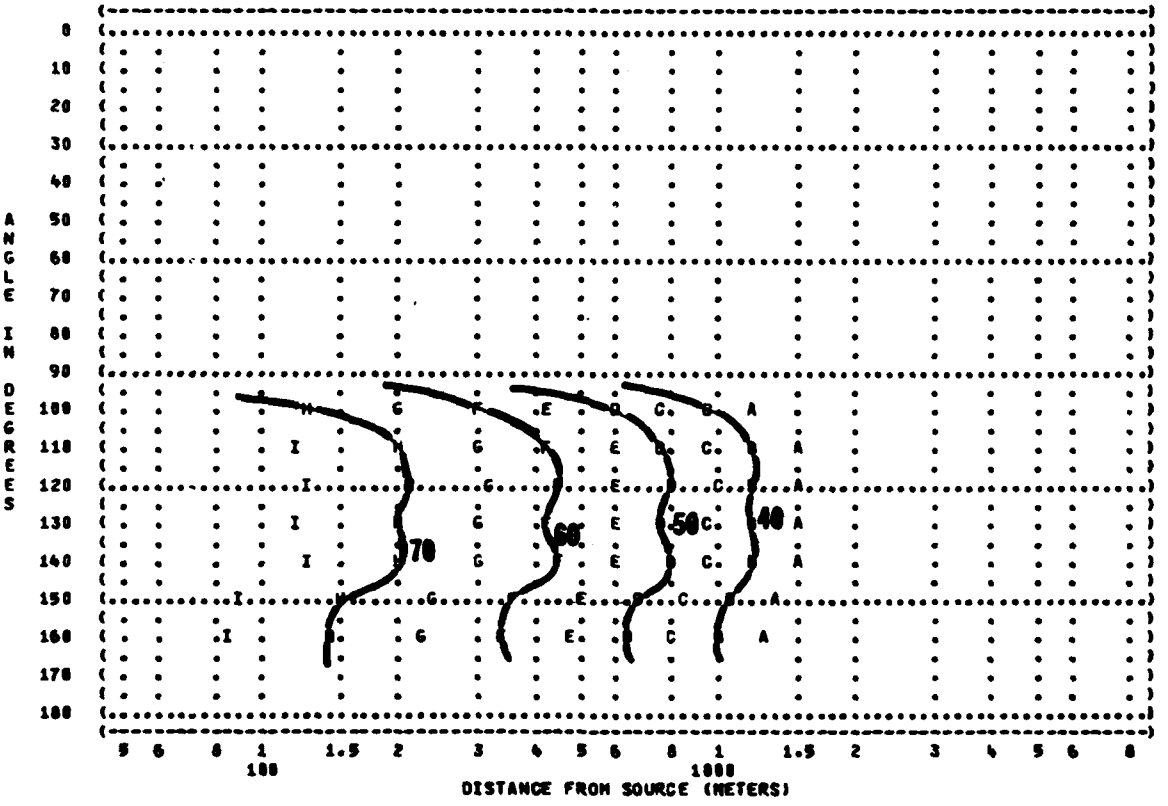


FIGURE: 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 03
26 OCT 81
PAGE 23

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
AFTERBURNER PWR(2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

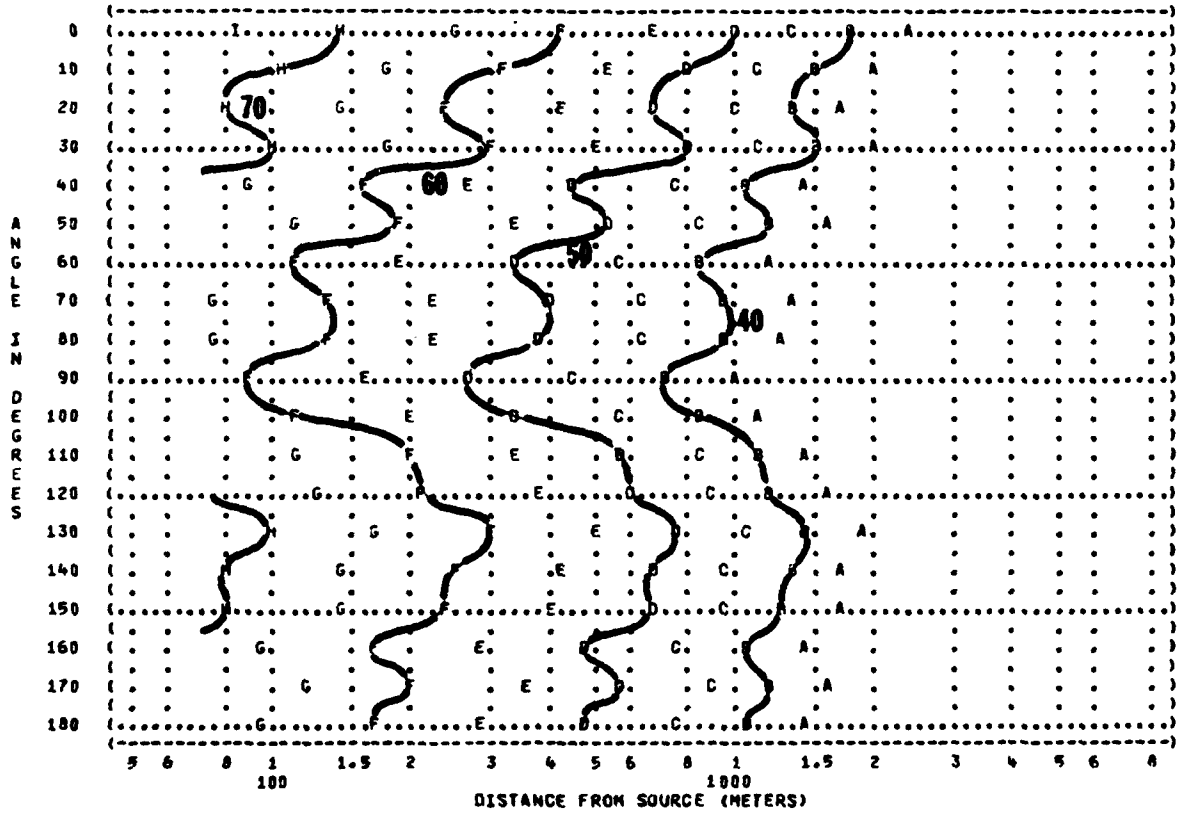
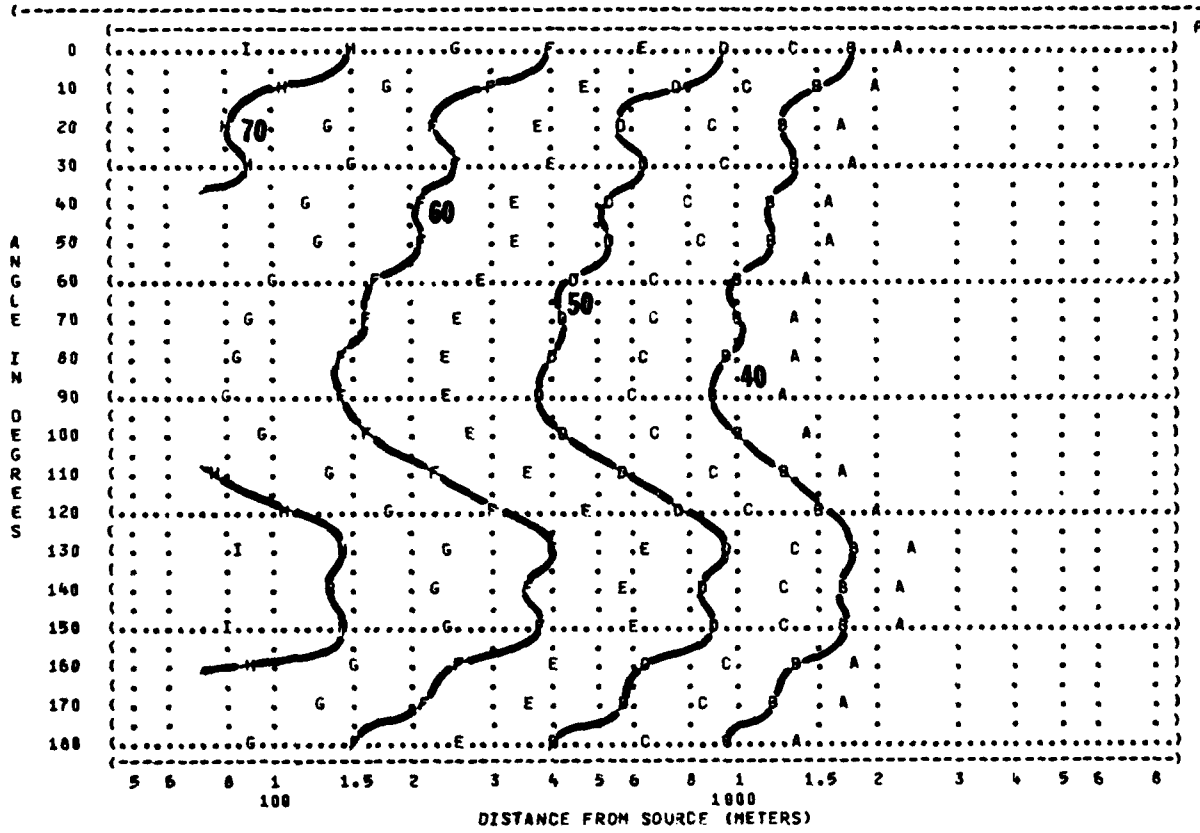


FIGURE 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT	OPERATION	METEOROLOGY
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE	AFTERBURNER PWR(2.4 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST 8F-714-801 RUN 03 26 OCT 81 PAGE 24



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

FIGURE: 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (OB) 2000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 03
26 OCT 81
PAGE 25

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE) FAR FIELD NOISE

OPERATION:
AFTERBURNER PWR(2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

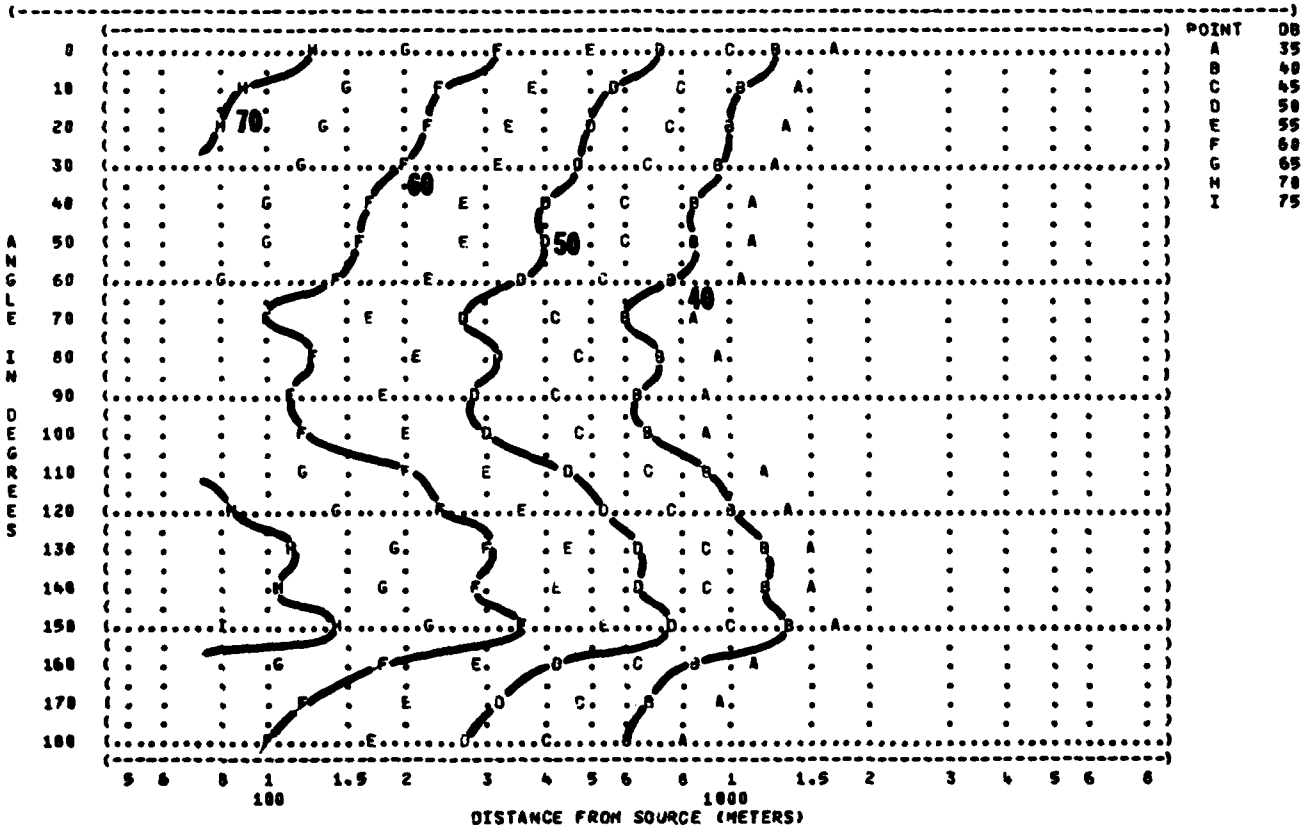


FIGURE 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-881
RUN 03
26 OCT 81
PAGE 26

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
AFTERBURNER PWR(2.4 EPR) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

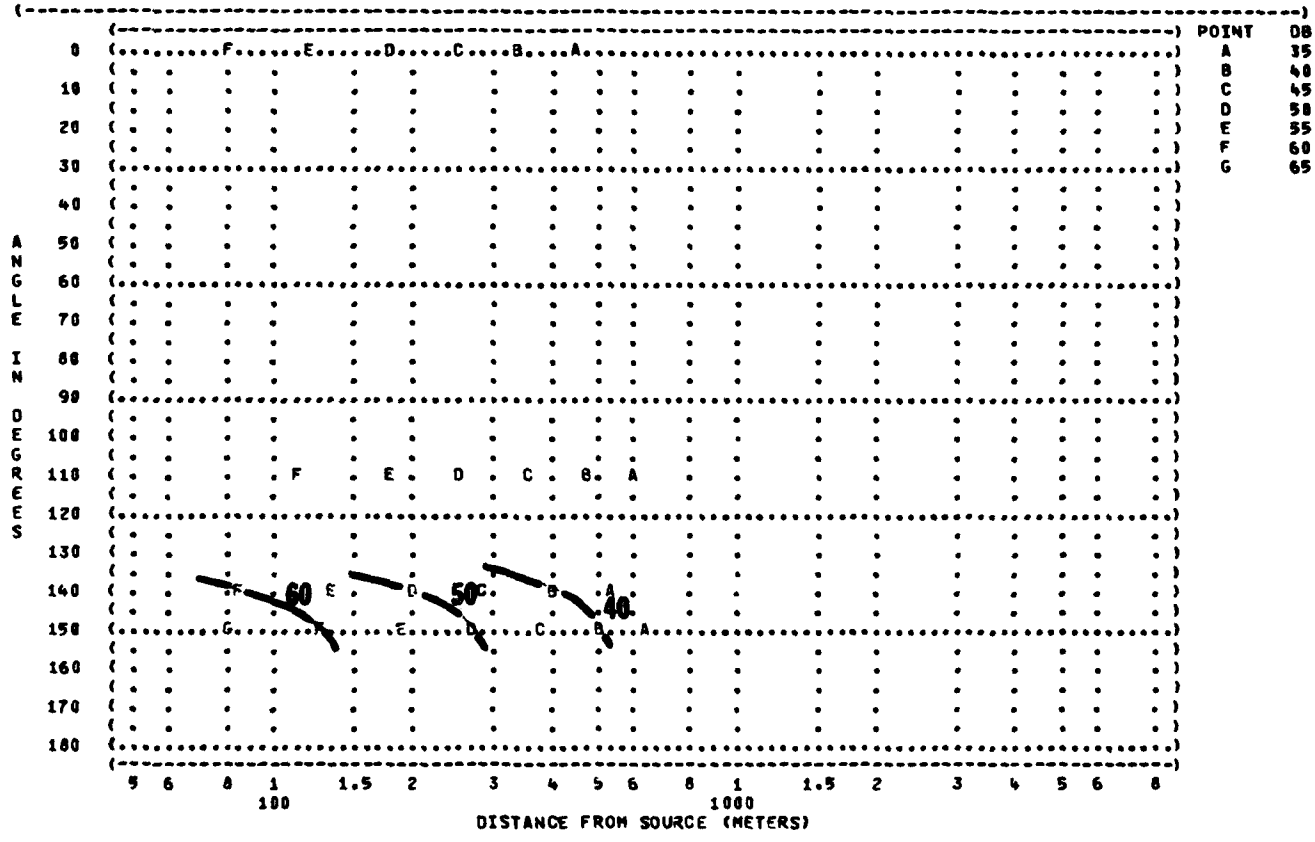


FIGURE: 11.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-714-001
RUN 03
26 OCT 81
PAGE 27

NOISE SOURCE/SUBJECT:
F100-PW-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-15/16 ENGINE)
FAR FIELD NOISE

OPERATION:
AFTERBURNER PWR(2.4 EPR)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

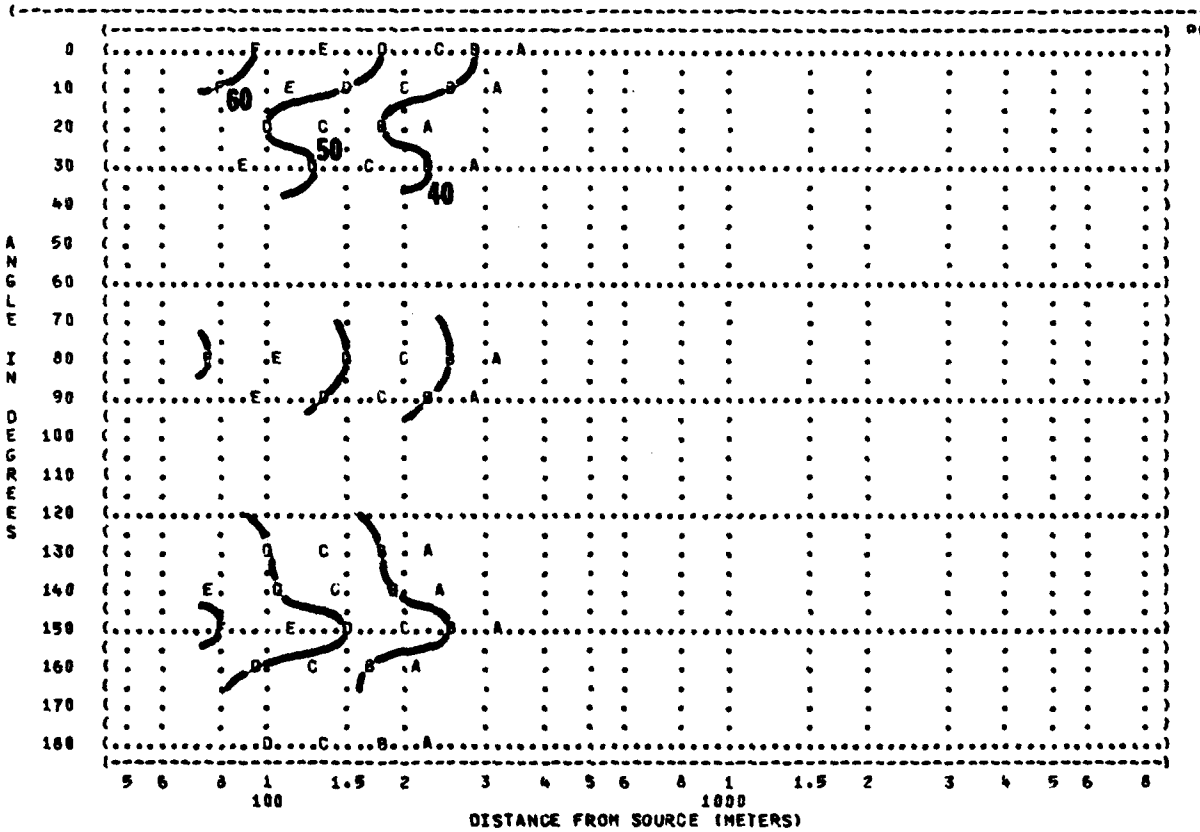


TABLE 12.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS J75-P-19 ENGINE IN THE ASE-TEXAS INC. HUSH-HOUSE, GROUND RUNUP KELLY AFB TEXAS, TEST #BF-716-001 (Engine For The F-105 Aircraft)

Engine Operation	Single Engine	
90%	90.8	% RPM
	6446	LBS THRUST
	738	EGT
Military Power	103	% RPM
	14550	LBS THRUST
	1133	EGT
Afterburner Power	103	% RPM
	21753	LBS THRUST
	1134	EGT
Meteorology		
Temperature	25	C
Bar Pressure	.741	M Hg
Rel Humidity	69	%
Wind - Speed	2	M/Sec (4 Kts)
- Direction	100	Deg

TABLE: 12.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 01
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

OPERATION:
91% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 25 C
BAR PRESS = .741 M HG
REL HUMID = 69 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	78	78	77	78	78	79	78	76	81	82	81	81	81	80	78	81	77	77	78
16	78	76	79	74	80	79	83	82	83	82	83	83	84	83	80	83	82	80	82
20	74	75	76	77	78	80	79	81	82	83	84	83	84	82	80	80	81	85	82
25	67	67	67	71	72	72	75	78	79	79	80	81	82	82	78	82	81	83	81
31.5	63	62	62	66	67	69	67	68	71	71	74	76	78	79	76	79	80	79	78
40	62	64	66	66	69	67	69	66	65	66	67	71	74	76	76	76	78	77	80
50	63	58	63	61	62	66	64	65	64	65	65	66	68	71	69	71	75	73	76
63	60	56	57	58	59	58	58	60	60	62	62	64	67	65	62	65	67	68	69
80	59	58	57	56	57	56	58	57	60	61	60	60	62	63	58	60	63	63	62
100	59	56	55	54	56	54	58	55	55	58	59	59	60	60	57	56	56	57	56
125	57	55	52	53	53	52	52	52	50	55	56	56	56	56	53	52	56	53	52
160	54	51	49	48	49	47	47	46	45	50	51	51	53	55	50	48	50	50	48
200	47	45	46	45	44	46	44	42	41	44	47	48	49	53	50	44	47	49	47
250	47	46	46	44	42	41	43	40	39	42	44	46	45	47	44	44	44	44	49
315	44	42	42	41	38	39	36	36	36	41	39	43	48	43	38	41	40	43	45
400	44	41	40	39	36	38	35	35	36	40	38	39	39	42	36	40	38	43	45
500	47	43	43	43	41	41	40	40	38	39	37	39	39	41	36	41	39	44	46
630	46	42	41	41	41	41	40	39	38	40	38	40	40	40	37	41	39	45	46
800	43	40	38	39	38	39	39	38	37	40	38	41	40	40	37	40	39	43	45
1000	46	41	39	39	38	40	38	38	36	37	37	40	39	40	38	40	40	43	44
1250	49	44	41	41	41	41	40	40	37	38	37	40	39	40	39	42	40	42	42
1600	53	46	45	45	46	45	43	40	40	39	37	39	39	41	40	39	38	41	41
2000	55	57	52	55	57	52	49	47	46	43	41	42	41	41	38	40	39	43	41
2500	48	48	46	48	50	45	41	40	39	41	39	40	40	38	34	37	36	41	39
3150	36	33	33	33	34	34	33	33	35	36	35	36	36	37	34	37	36	41	39
4000	45	37	36	37	35	33	34	38	41	37	35	36	34	36	33	36	35	41	37
5000	44	39	37	38	38	34	35	37	41	38	34	35	35	39	33	35	34	38	36
6300	44	43	39	39	38	37	38	35	41	38	33	33	33	36	31	33	32	34	34
8000	42	41	38	38	39	35	37	36	39	36	35	34	33	34	30	32	31	33	33
10000	40	38	37	36	44	35	35	35	37	39	42	36	32	32	33	36	31	31	31
OVERALL	82	82	83	82	84	84	85	86	87	86	88	88	89	89	86	89	88	89	89

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 12.2

MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 02
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 25 C
BAR PRESS = .741 M HG
REL HUMID = 69 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	89	92	88	89	88	91	91	92	90	90	89	92	92	93	93	93	91	89	91
16	83	89	88	90	86	88	91	93	95	92	92	91	92	92	91	94	92	91	92
20	88	86	81	88	88	90	90	92	93	93	93	92	94	94	94	95	94	96	95
25	76	76	80	82	84	87	89	88	91	90	92	92	94	94	95	96	93	96	95
31.5	73	74	73	77	79	81	82	83	84	84	87	90	91	92	91	93	95	92	95
40	75	77	78	79	82	81	83	81	79	79	83	85	88	90	91	94	94	92	95
50	75	72	76	74	77	78	79	80	80	77	76	77	82	84	87	90	90	94	93
63	69	67	68	70	68	70	70	74	75	74	77	79	80	78	79	85	86	88	87
80	67	63	64	65	66	65	65	69	71	73	73	72	77	77	76	74	76	82	79
100	68	65	64	66	65	64	64	66	67	70	72	72	72	73	70	70	70	73	72
125	66	63	62	62	61	60	60	63	61	66	68	68	68	69	69	68	67	67	67
160	62	58	57	60	59	57	59	59	58	60	62	65	66	67	67	63	63	63	69
200	55	54	53	56	55	53	54	55	54	54	59	60	65	69	67	59	57	63	69
250	58	58	57	57	55	53	54	54	51	51	54	57	61	64	64	60	59	62	68
315	63	55	58	57	54	50	51	51	49	49	49	52	54	58	61	57	57	68	67
400	70	63	63	63	63	59	59	60	54	52	49	51	53	57	56	55	57	68	67
500	73	71	69	68	70	70	66	66	61	57	55	53	55	56	57	58	57	61	65
630	69	67	65	65	68	69	62	62	60	56	53	54	55	57	58	57	56	60	73
800	62	60	59	61	62	62	60	59	56	55	54	54	56	56	57	55	56	59	65
1000	62	61	59	60	61	60	56	59	55	53	53	54	57	56	59	56	57	60	67
1250	64	63	60	61	63	59	58	59	55	53	52	54	56	57	60	59	59	59	67
1600	64	64	61	61	62	59	59	56	55	53	51	54	56	58	60	55	53	57	69
2000	58	58	56	56	56	53	52	51	51	49	50	54	57	59	63	52	51	55	64
2500	50	49	49	50	50	47	46	45	47	48	49	52	56	54	55	50	50	53	67
3150	47	45	44	46	46	45	45	45	47	47	46	51	51	51	52	49	49	51	62
4000	42	42	41	43	43	41	42	42	45	46	46	50	49	51	52	48	48	51	61
5000	44	44	42	47	46	41	41	41	44	46	56	48	47	49	49	48	47	49	61
6300	45	45	42	47	43	40	41	40	43	45	54	46	45	48	49	45	45	48	63
8000	48	45	43	43	43	40	42	41	44	44	43	44	45	47	53	44	44	46	63
10000	43	42	41	42	42	42	43	39	42	42	42	43	42	44	48	44	41	43	57
OVERALL	94	95	92	94	93	96	97	98	99	98	98	99	100	100	101	102	102	102	103

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 12.2

MEASURED SOUND PRESSURE LEVEL (dB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 03
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 25 C
BAR PRESS = .741 M HG
REL HUMID = 69 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	96	94	91	93	93	96	93	95	95	97	96	99	98	97	97	98	95	100	98
16	93	96	92	95	93	96	96	98	98	97	100	100	101	99	98	101	100	100	99
20	93	92	89	97	92	95	98	100	98	100	101	102	102	102	100	101	104	104	105
25	87	84	86	92	91	94	94	97	97	100	101	101	105	104	102	102	102	105	106
31.5	80	82	80	86	89	88	89	92	95	97	99	100	102	103	100	101	104	103	104
40	79	83	83	86	89	87	88	89	90	94	97	99	100	102	100	103	105	101	105
50	81	80	85	83	87	89	88	90	89	88	91	94	93	99	100	102	102	104	103
63	80	80	80	82	80	86	83	86	87	87	86	89	92	96	95	97	100	101	100
80	75	74	75	77	74	75	75	80	83	84	86	90	91	90	86	89	92	94	91
100	76	71	72	71	71	72	71	73	77	82	81	83	84	86	83	82	82	83	80
125	72	68	69	69	68	68	66	67	71	75	76	78	76	78	77	76	77	77	73
160	67	62	65	65	63	63	63	64	66	69	72	72	73	75	73	70	72	72	70
200	61	61	61	62	60	59	60	61	62	65	68	72	69	71	69	67	68	69	68
250	64	62	61	61	59	59	59	59	60	62	64	68	69	68	68	66	67	68	67
315	64	57	59	58	57	55	54	55	56	58	58	62	64	66	61	63	63	65	65
400	69	61	62	61	62	61	57	59	56	58	59	60	65	62	60	63	63	65	64
500	73	68	69	69	67	69	62	65	60	60	59	62	65	61	61	63	63	64	62
630	67	65	65	65	66	66	60	62	61	61	60	62	65	61	62	63	63	64	62
800	64	60	61	61	62	62	61	59	60	61	61	63	65	61	63	64	63	64	61
1000	66	64	62	63	63	62	59	59	60	61	61	63	64	61	63	64	65	65	61
1250	68	65	63	64	63	62	61	60	59	59	59	63	64	62	65	66	66	65	61
1600	69	67	65	65	64	62	61	59	60	59	58	62	63	63	66	64	62	63	59
2000	62	62	60	60	59	57	56	55	56	57	56	60	62	62	62	58	56	59	56
2500	53	52	53	55	54	51	50	50	53	54	55	58	61	56	57	55	56	56	53
3150	47	47	46	48	48	46	48	46	52	52	53	57	57	53	54	54	54	55	52
4000	46	46	44	45	45	44	48	48	51	51	53	56	54	54	54	53	54	54	53
5000	49	48	45	47	46	44	45	45	49	50	50	52	51	51	51	51	50	52	50
6300	49	47	44	45	44	43	45	44	48	49	49	50	50	50	50	50	49	50	49
8000	48	47	43	44	44	45	45	45	47	49	49	50	50	55	50	50	49	50	49
10000	46	45	43	44	43	42	44	44	45	46	48	49	49	50	48	49	48	49	49
OVERALL	100	99	97	101	100	103	102	104	104	106	107	108	110	110	109	110	111	112	112

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

FIGURE: NORMALIZED FARFIELD NOISE LEVELS

121

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
JT9-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-109 ENGINE)
FAR FIELD NOISE

OPERATION:
91% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST AF-716-001
RUN 01
26 OCT 81
PAGE 6

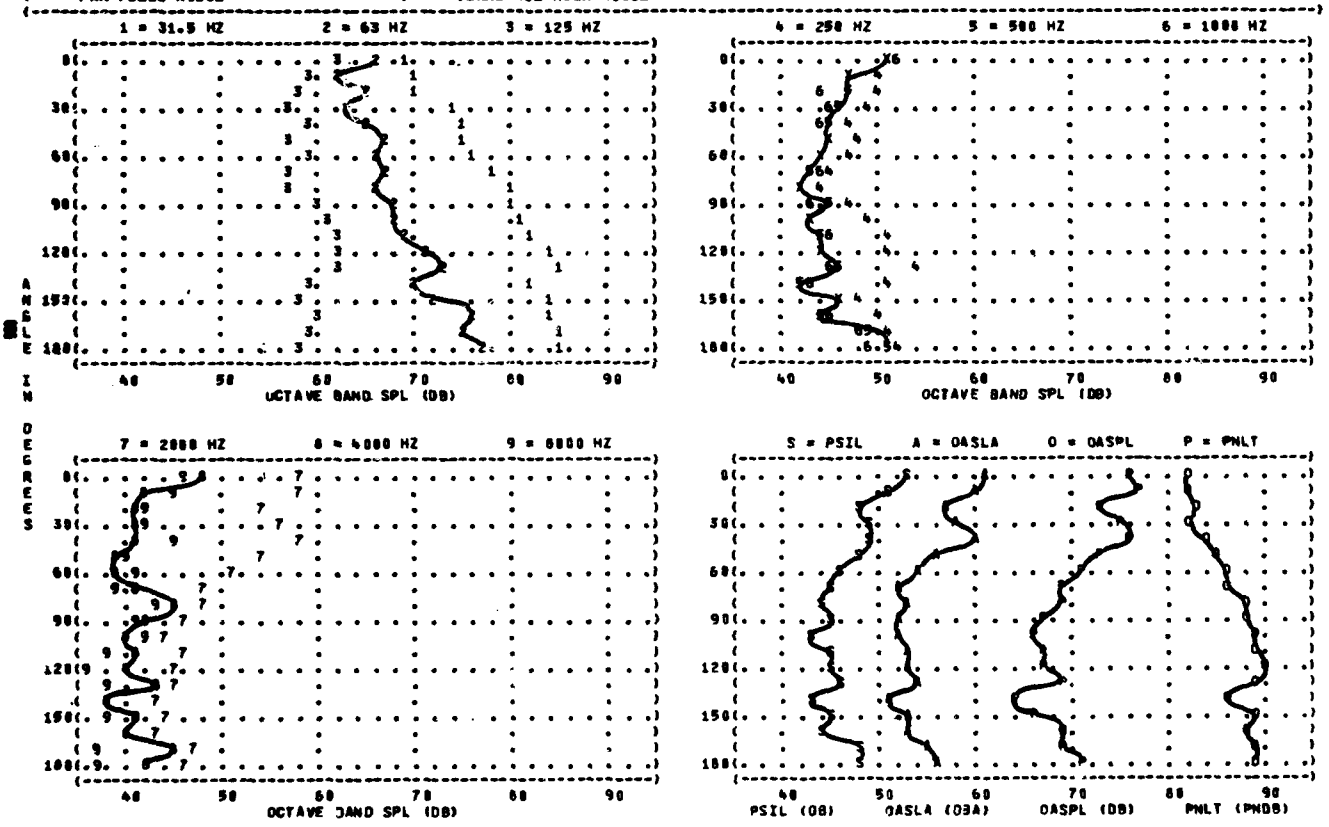


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

121

DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 02

26 OCT 81

NOISE SOURCE/SUBJECT:
J79-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

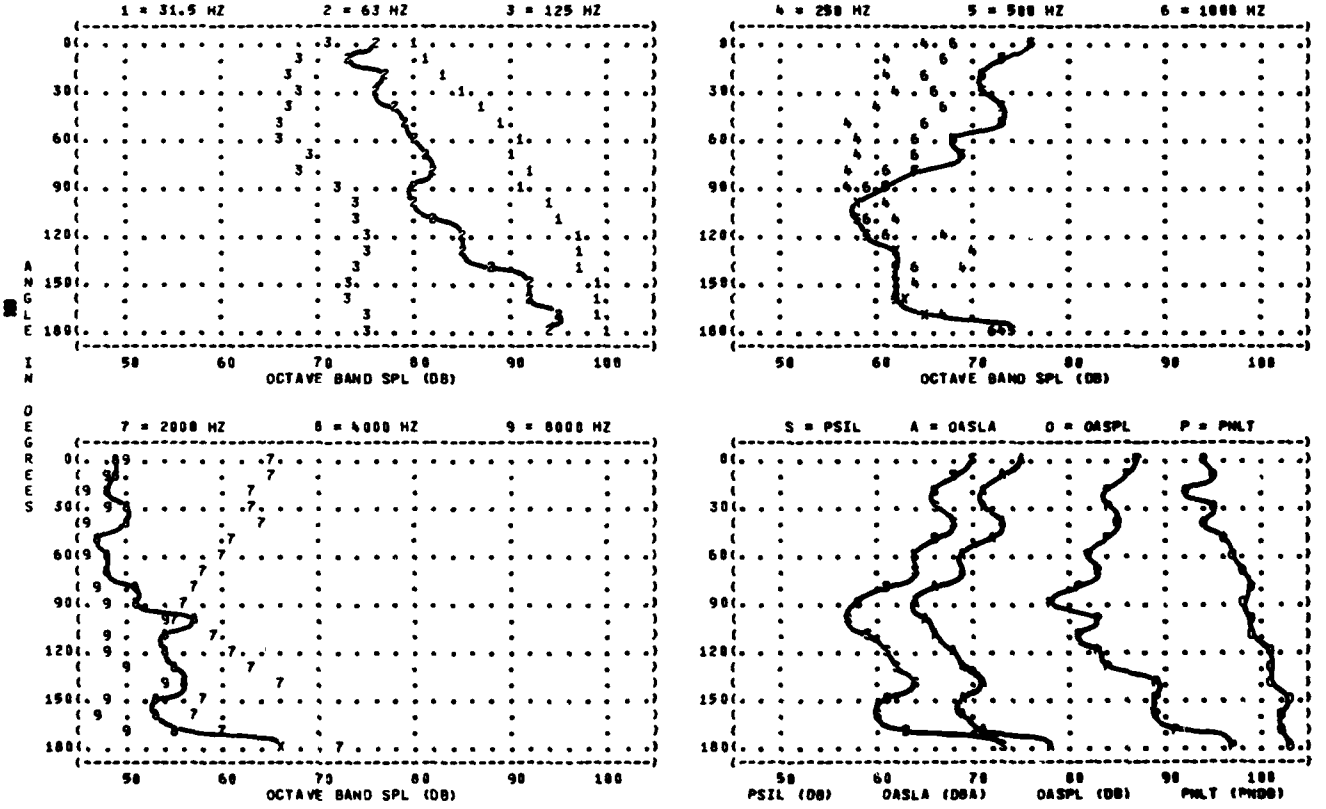


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

12.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 03
26 OCT 81
PAGE 6

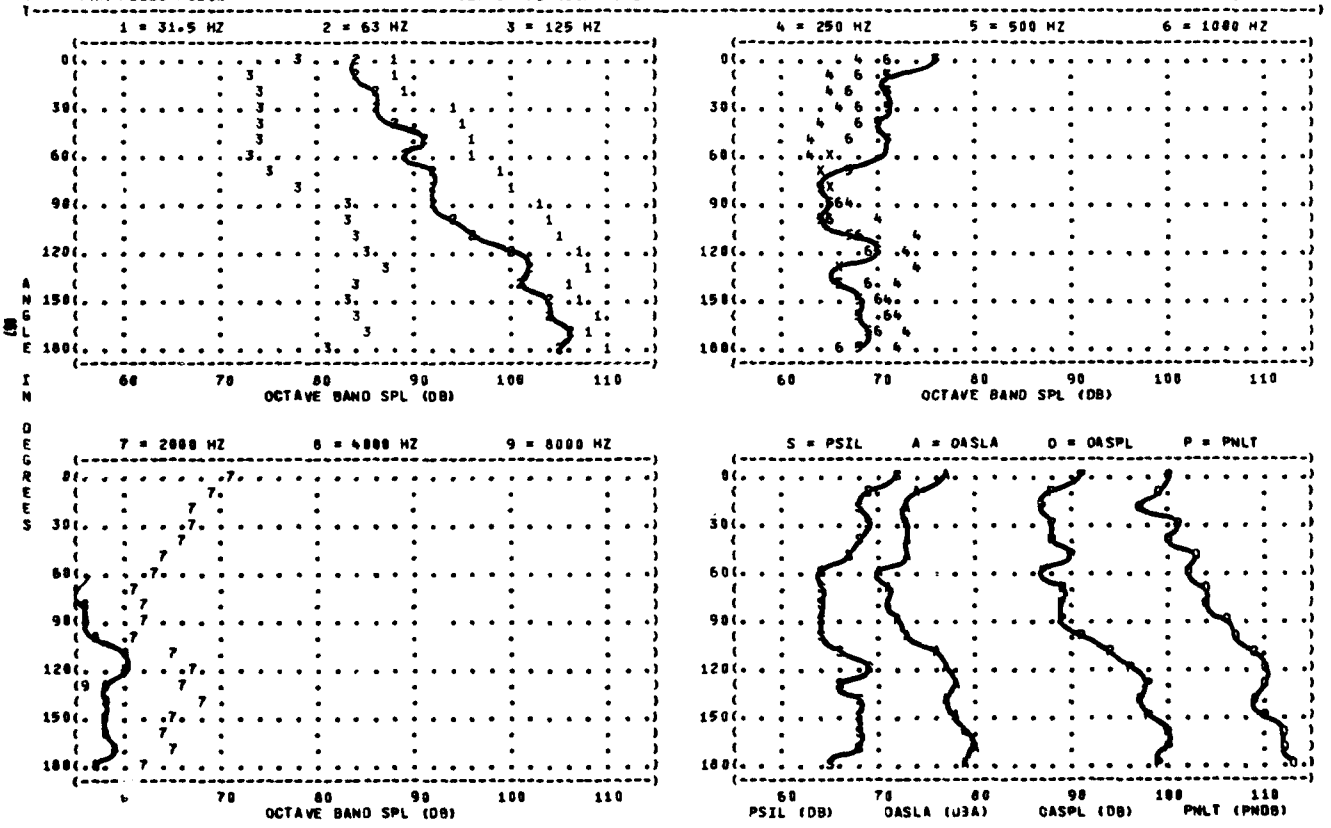


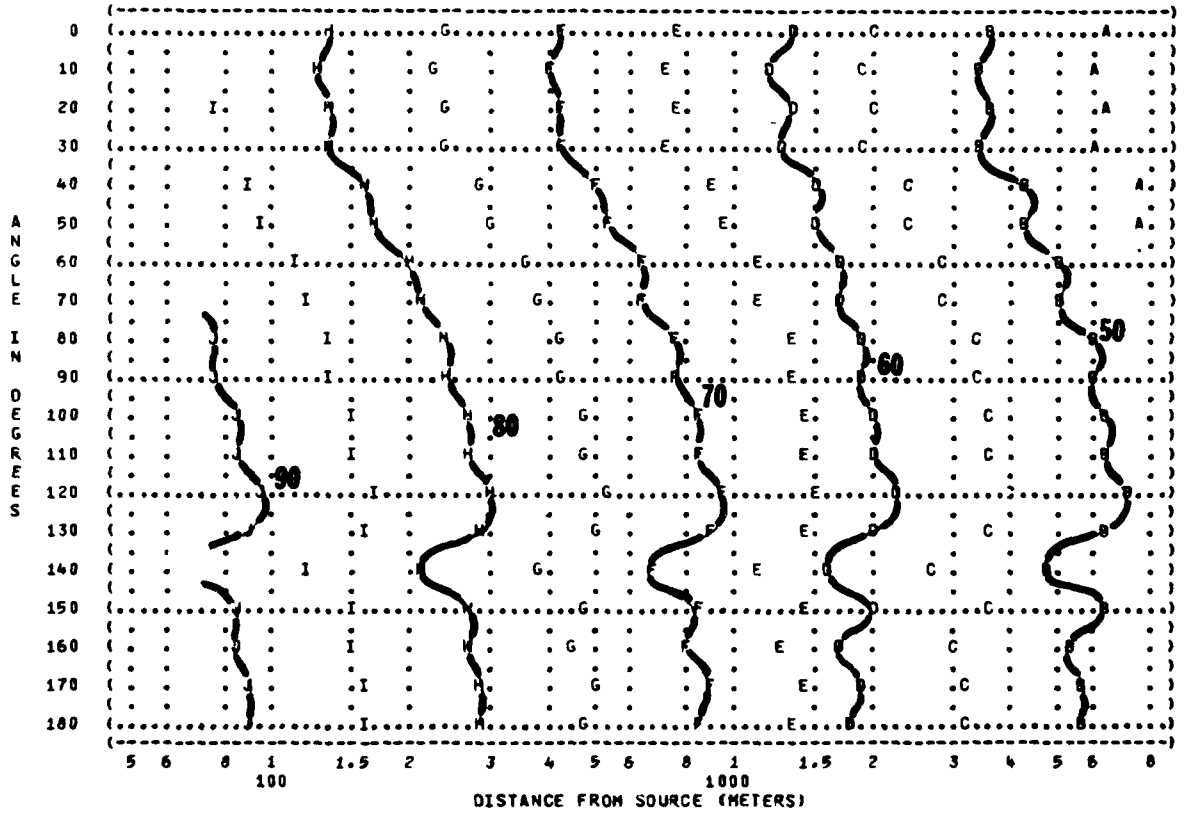
FIGURE 12.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

OPERATION:
91% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-081
RUN 01
26 OCT 81
PAGE 13



POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90

FIGURE: 12.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 02
26 OCT 81
PAGE 13

POINT	DB
A	55
B	60
C	65
D	70
E	75
F	80
G	85
H	90
I	95
J	100
K	105

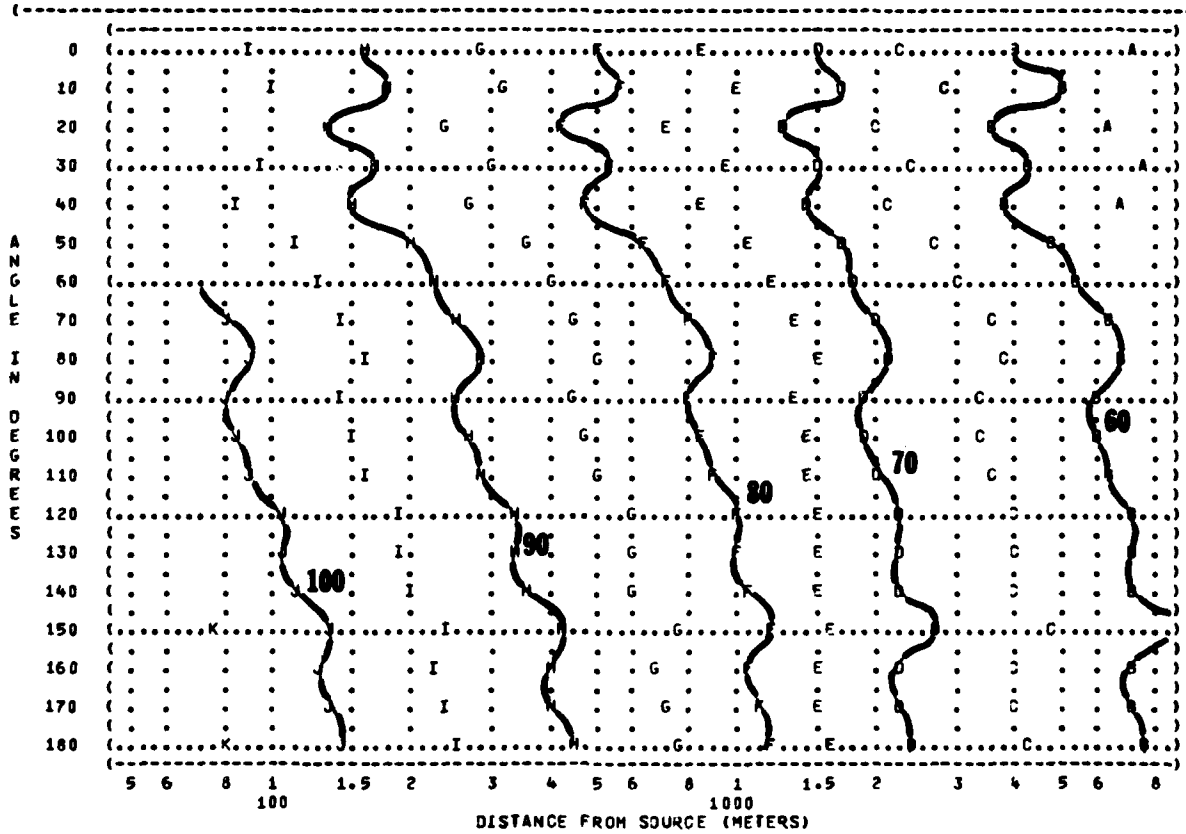


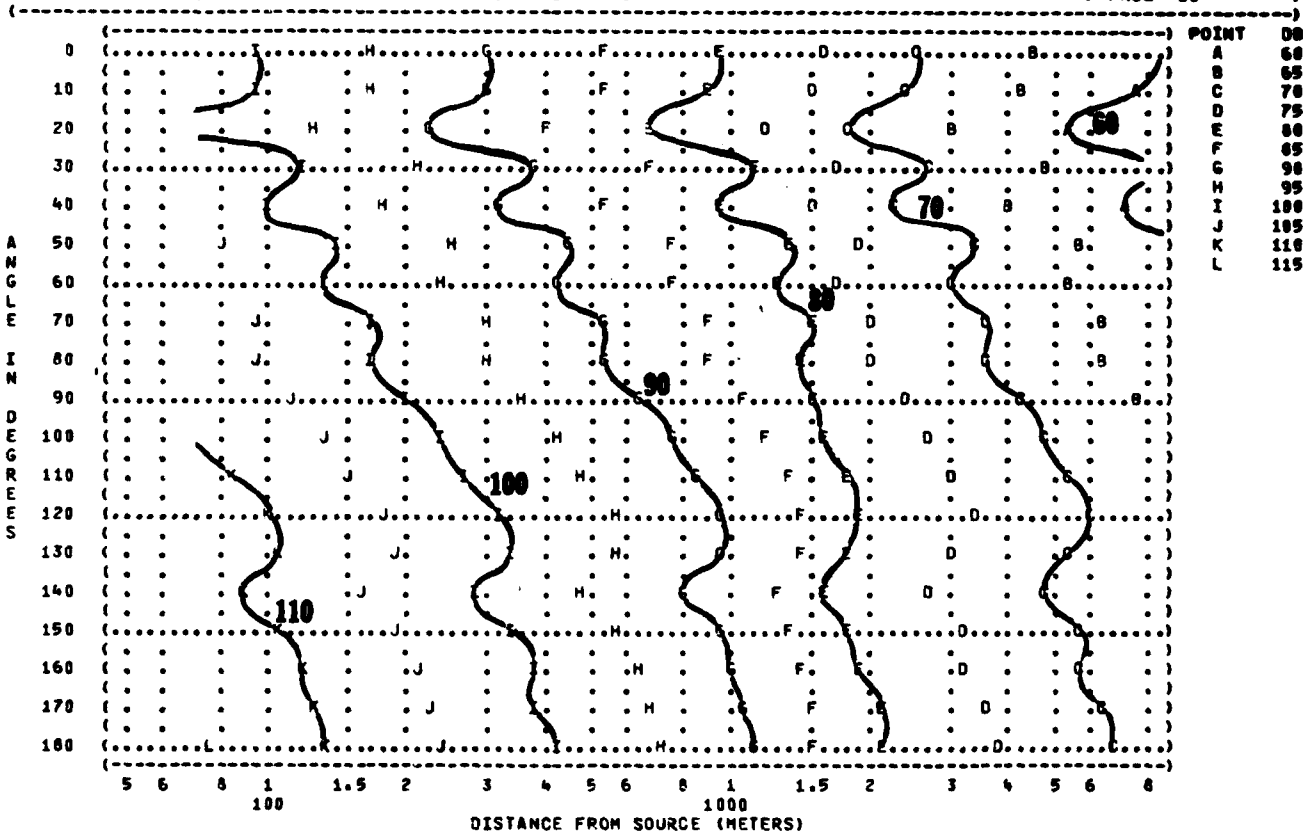
FIGURE 12.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-716-001 RUN 03 26 OCT 81 PAGE 13



POINT	DB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95
I	100
J	105
K	110
L	115

FIGURE 12.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 01
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE)
FAR FIELD NOISE

OPERATION:
91% RPM
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

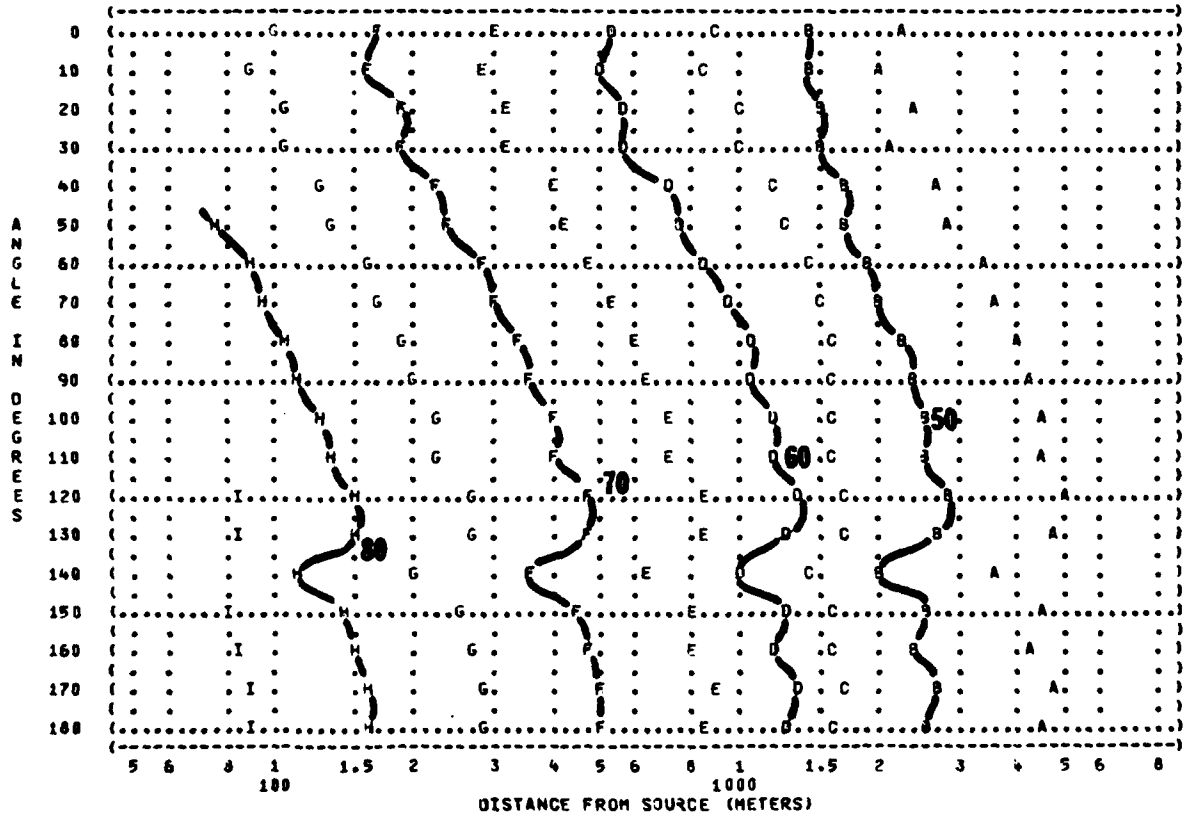


FIGURE 12.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC)
EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-081
RUN 02
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95
L	100

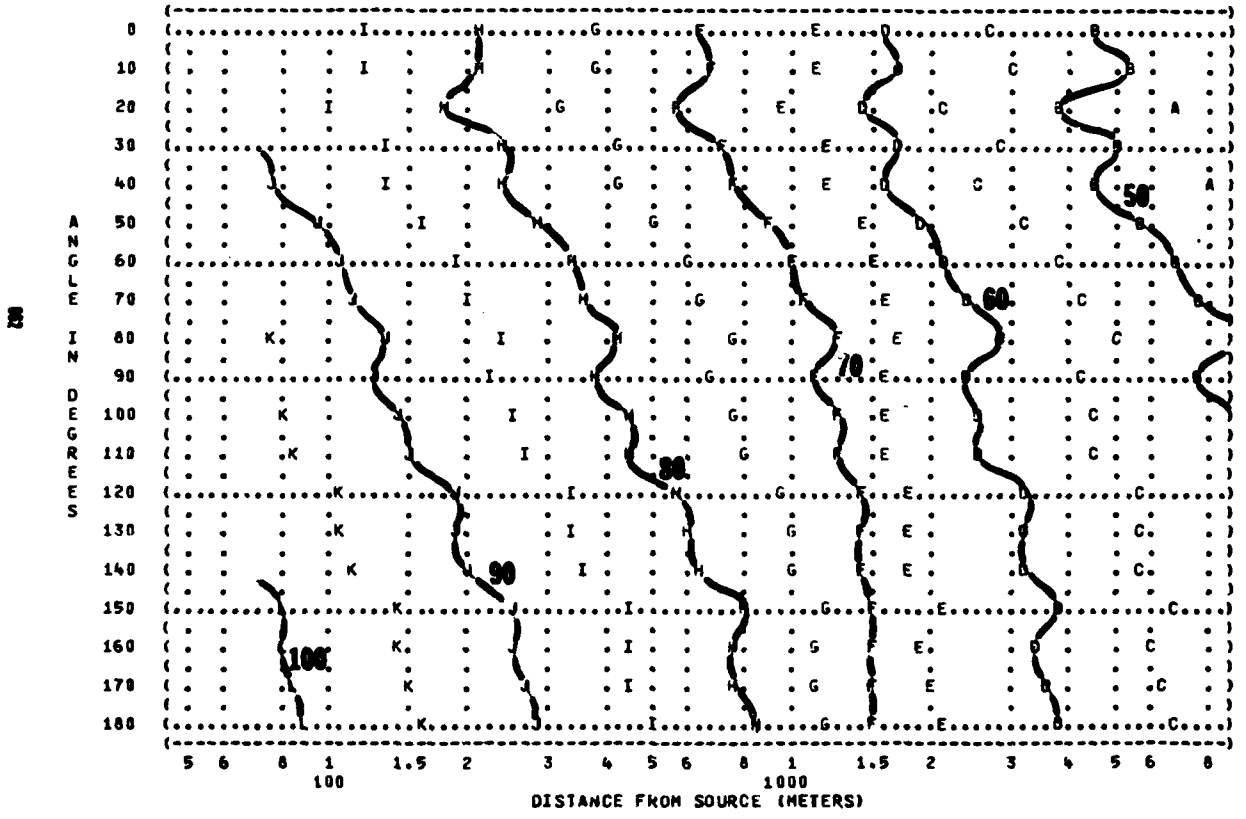


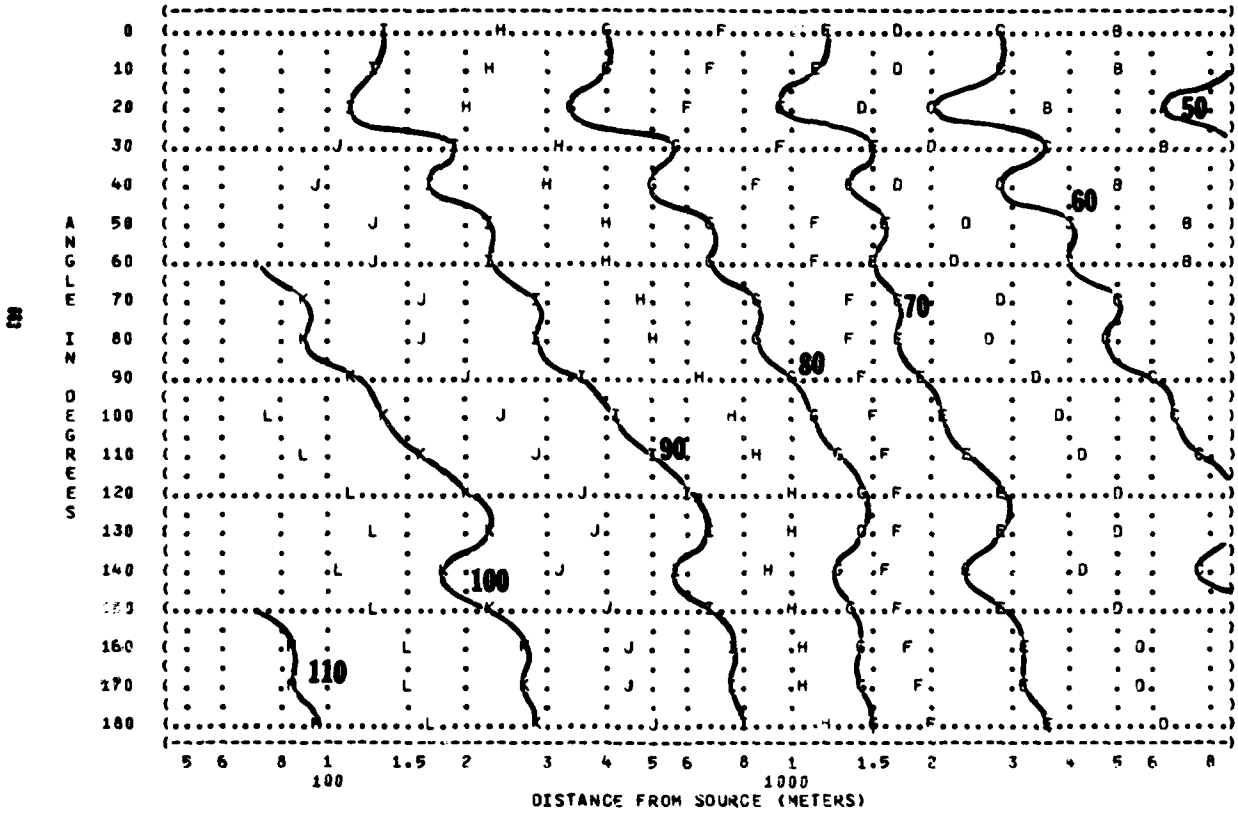
FIGURE: 12.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-881
RUN 03
26 OCT 81
PAGE 14



POINT	DBC
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95
K	100
L	105
M	110

FIGURE: A-WEIGHTED OVERALL SOUND LEVEL (OASLA)
12.4 EQUAL LEVEL CONTOURS (DBA)

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

OPERATION:
91% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATIONS:
OMEGA 1.4
TEST BF-716-881
RUN 01
26 OCT 81
PAGE 15

POINT	DBA
A	45
B	50
C	55
D	60

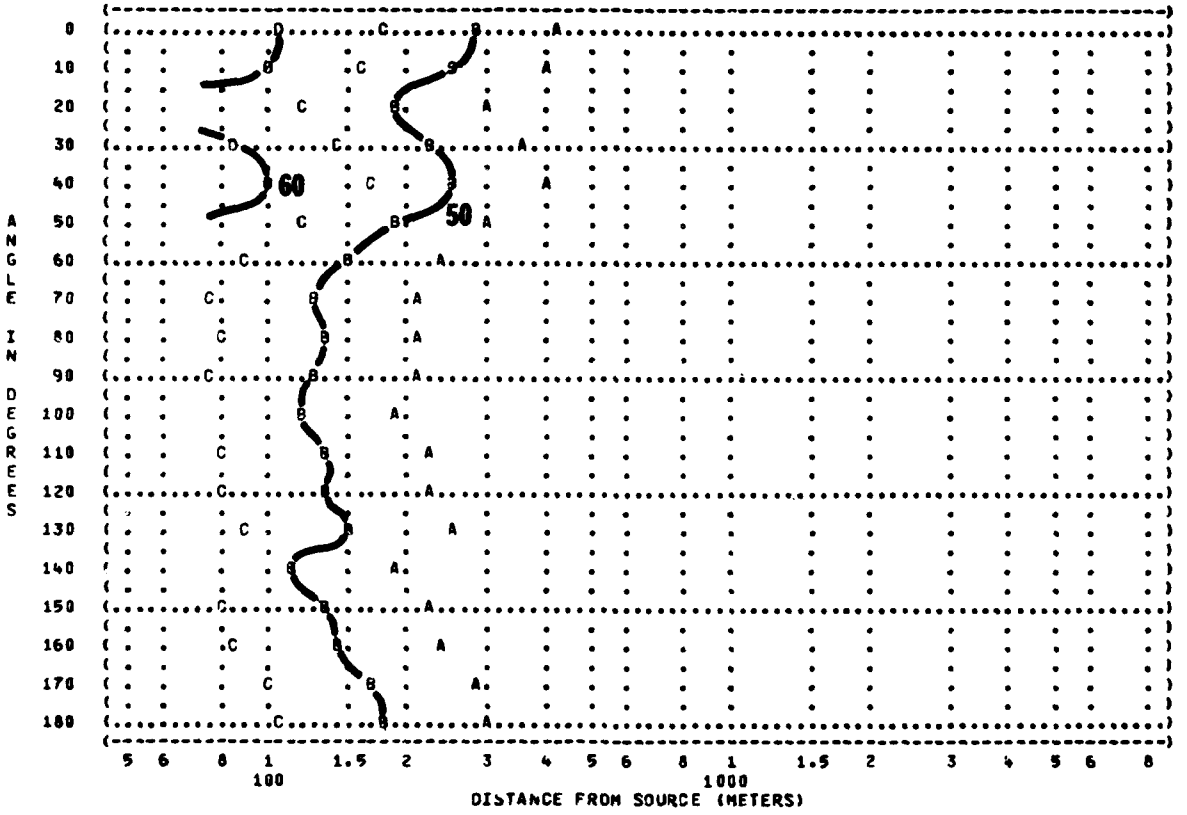


FIGURE: 12.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (OBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 02
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	OBA
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

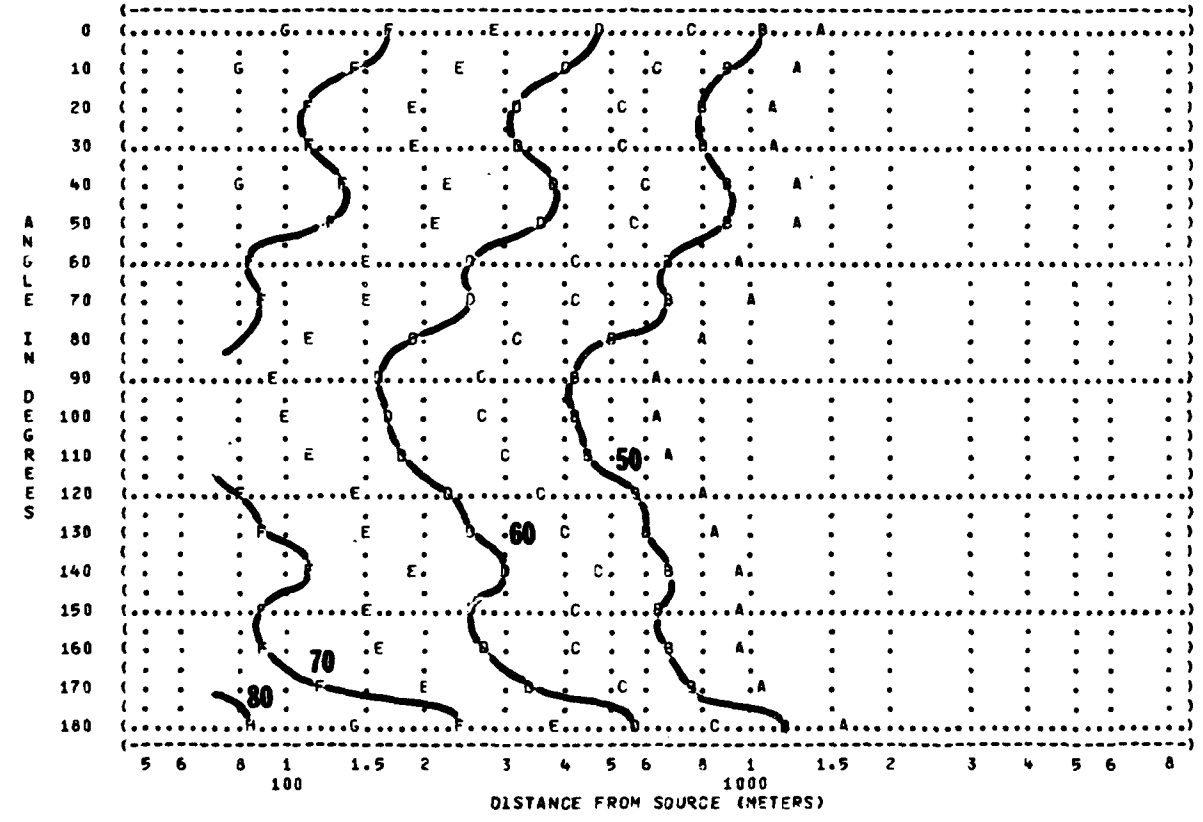


FIGURE: 12.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 03
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

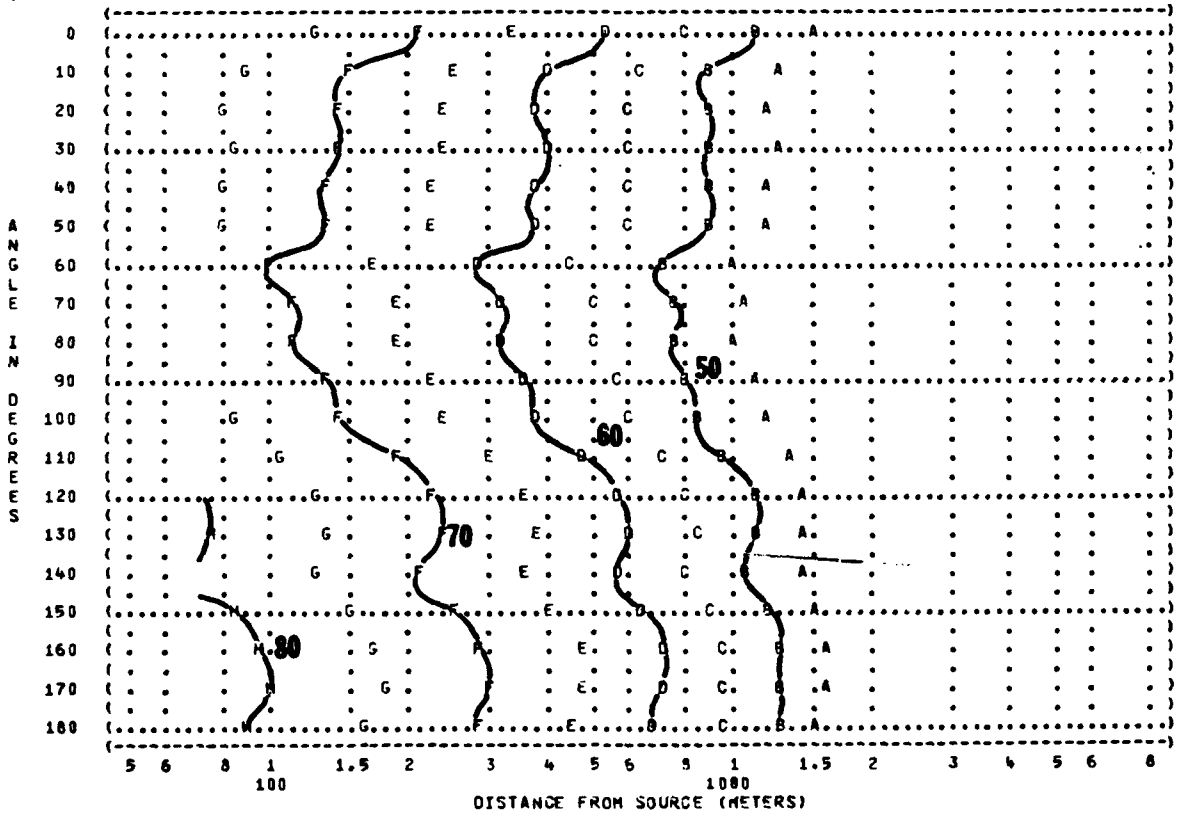


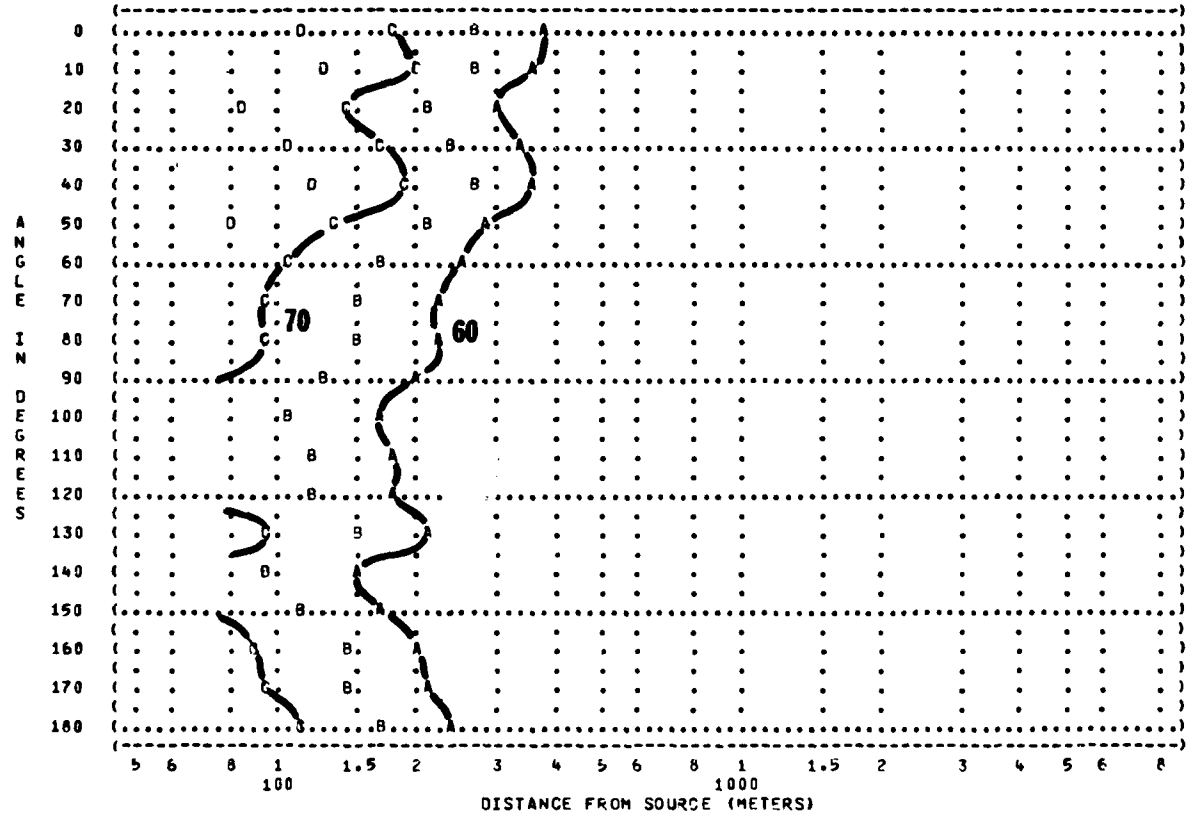
FIGURE: 12.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

OPERATION:
91% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-881
RUN 81
26 OCT 81
PAGE 16



POINT	PNDB
A	60
B	65
C	70
D	75

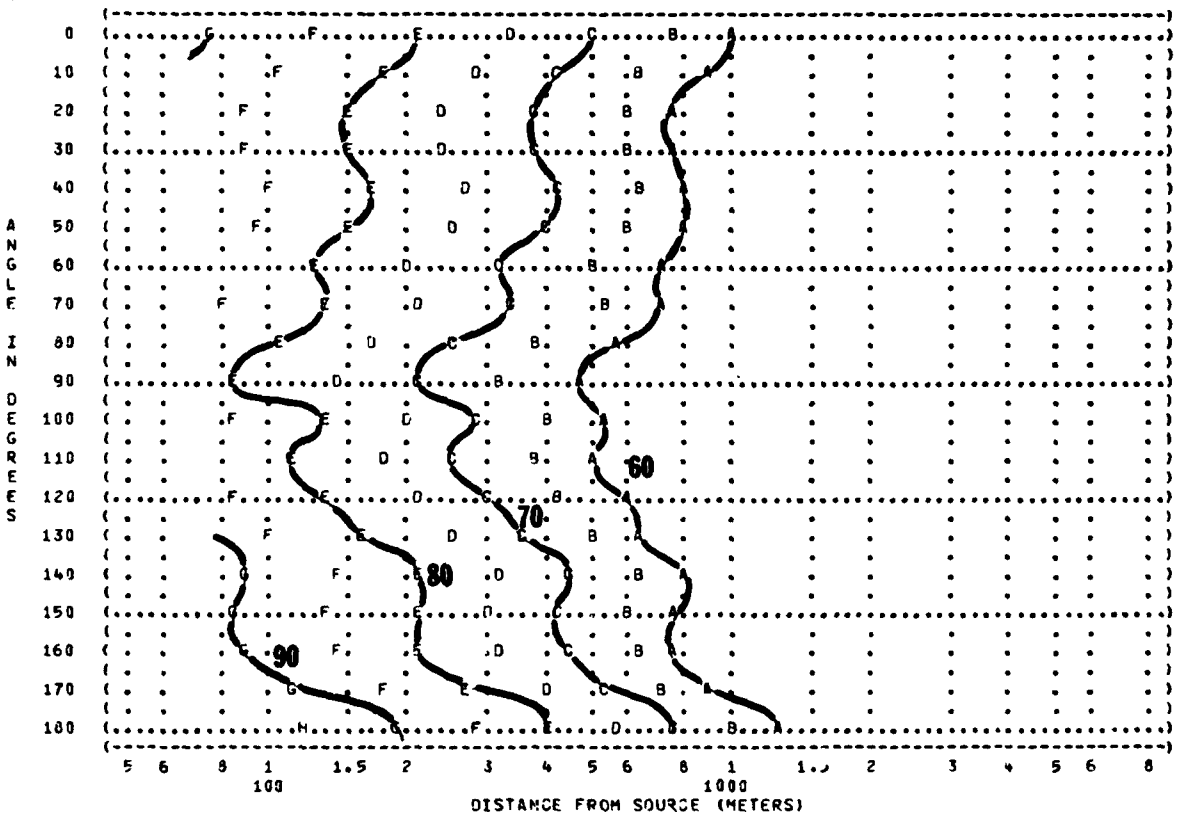
FIGURE: 12.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-881
RUN 02
26 OCT 81
PAGE 16



AD-A118 773 AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATT--ETC F/G 20/1
USAF BIOENVIRONMENTAL NOISE DATA HANDBOOK. VOLUME 172. HUSH-HOU--ETC(U)
JUL 82 R A LEE, T H RAU, C JONES
UNCLASSIFIED AMRL-TR-75-50-VOL-172 NL

8 OF 9
AD A118 773

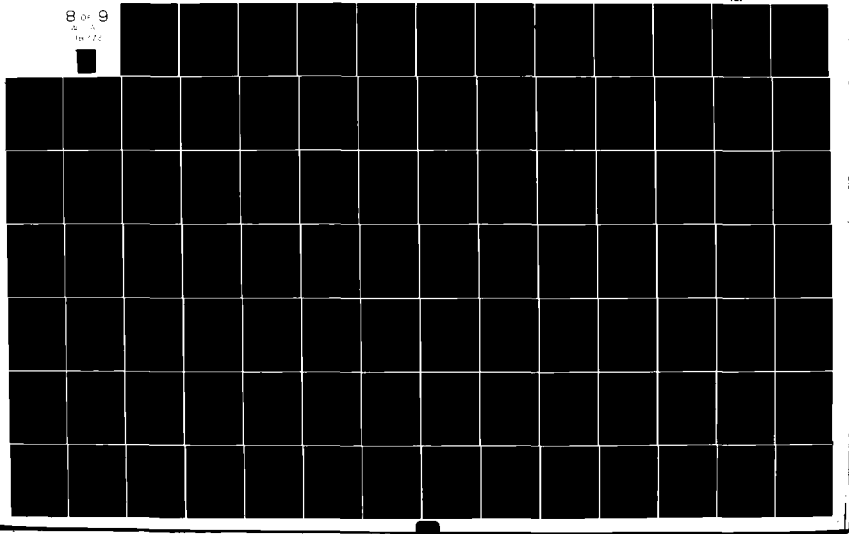


FIGURE: 12.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-716-001
RUN 03
26 OCT 81
PAGE 16

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95
I	108

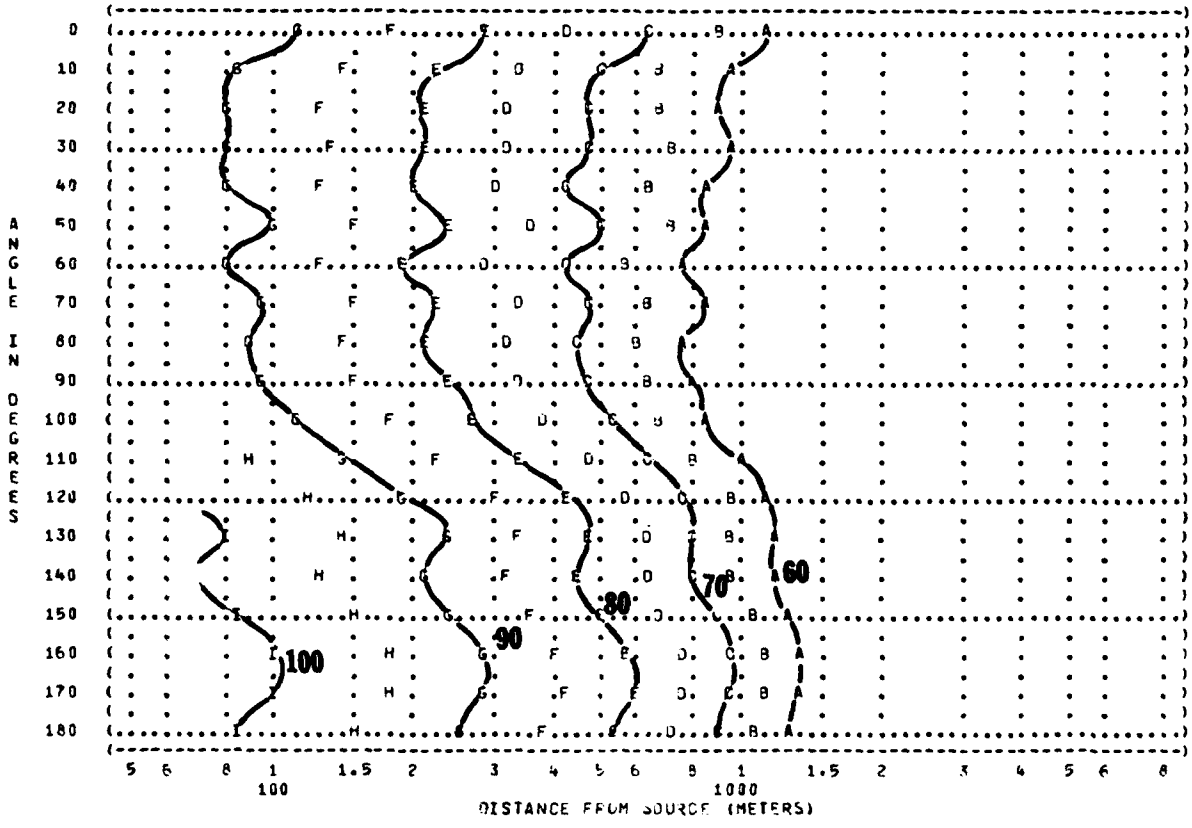


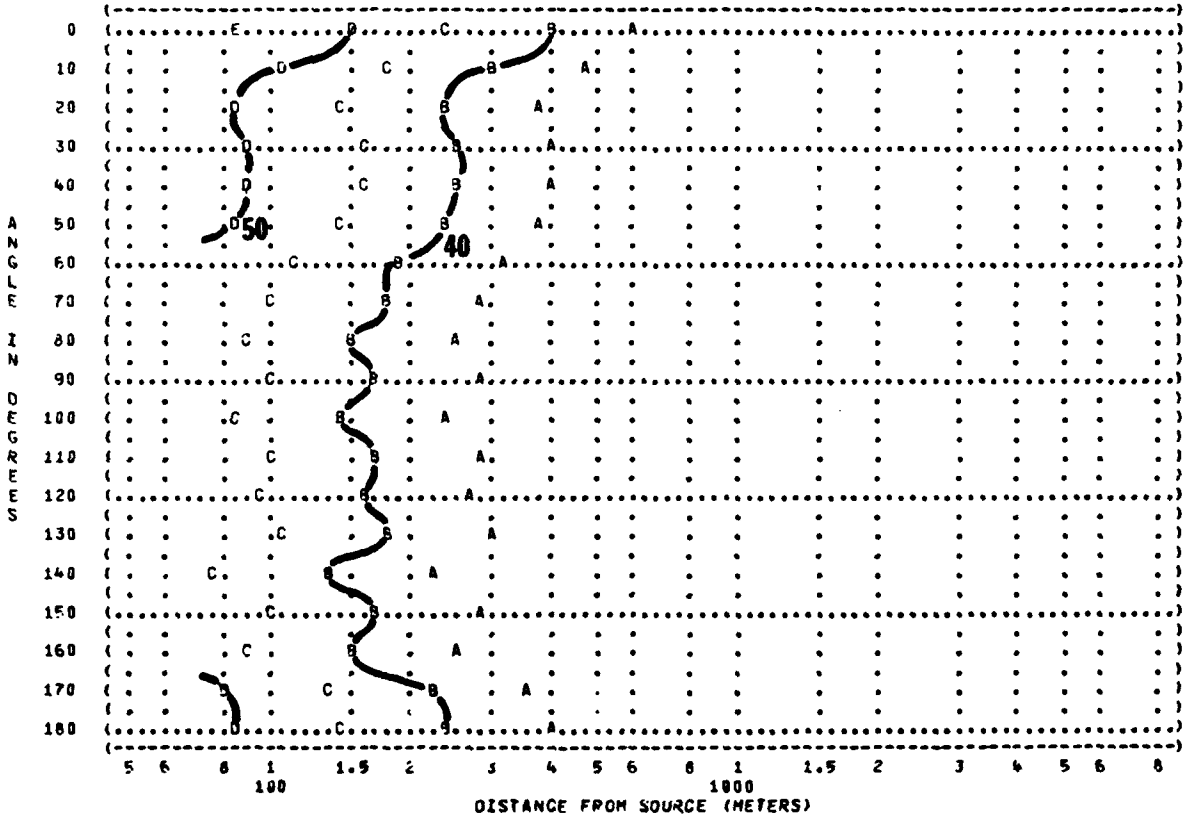
FIGURE 12.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

OPERATION:
91% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 9F-716-001
RUN 01
26 OCT 81
PAGE 17



POINT	DB
A	35
B	40
C	45
D	50
E	55

FIGURE 12.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION: OMEGA 1.4 TEST BF-716-001 RUN 02 26 OCT 81 PAGE 17

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

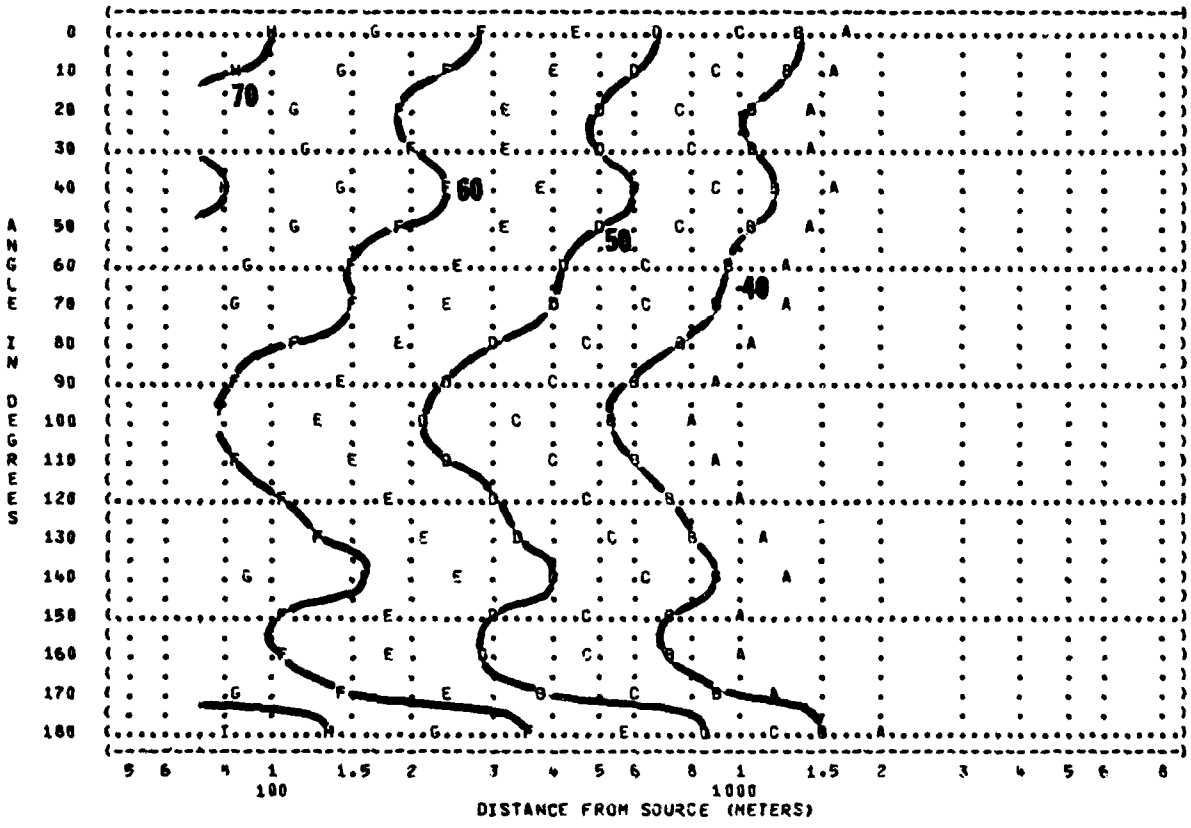


FIGURE: 12.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (D3)

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-801
RUN 03
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

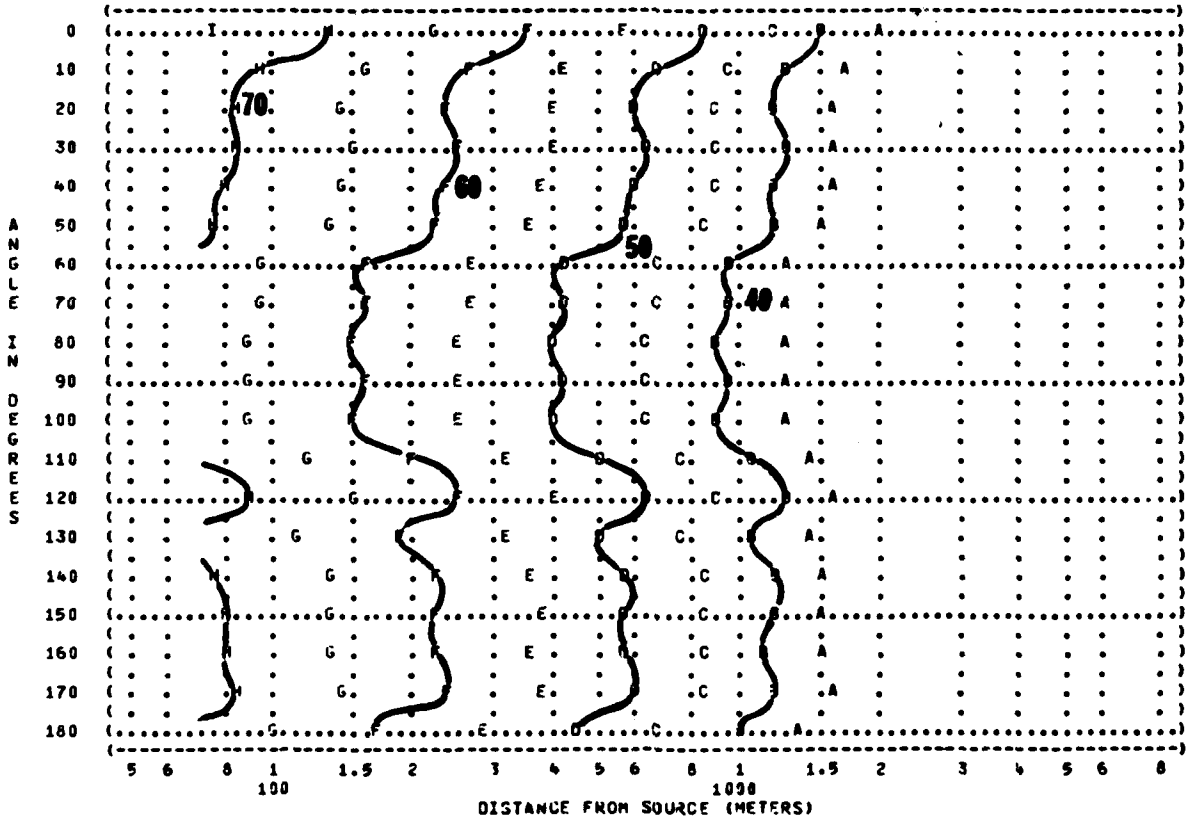


FIGURE: 12.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 01
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE)
FAR FIELD NOISE

OPERATION:
91% RPM
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

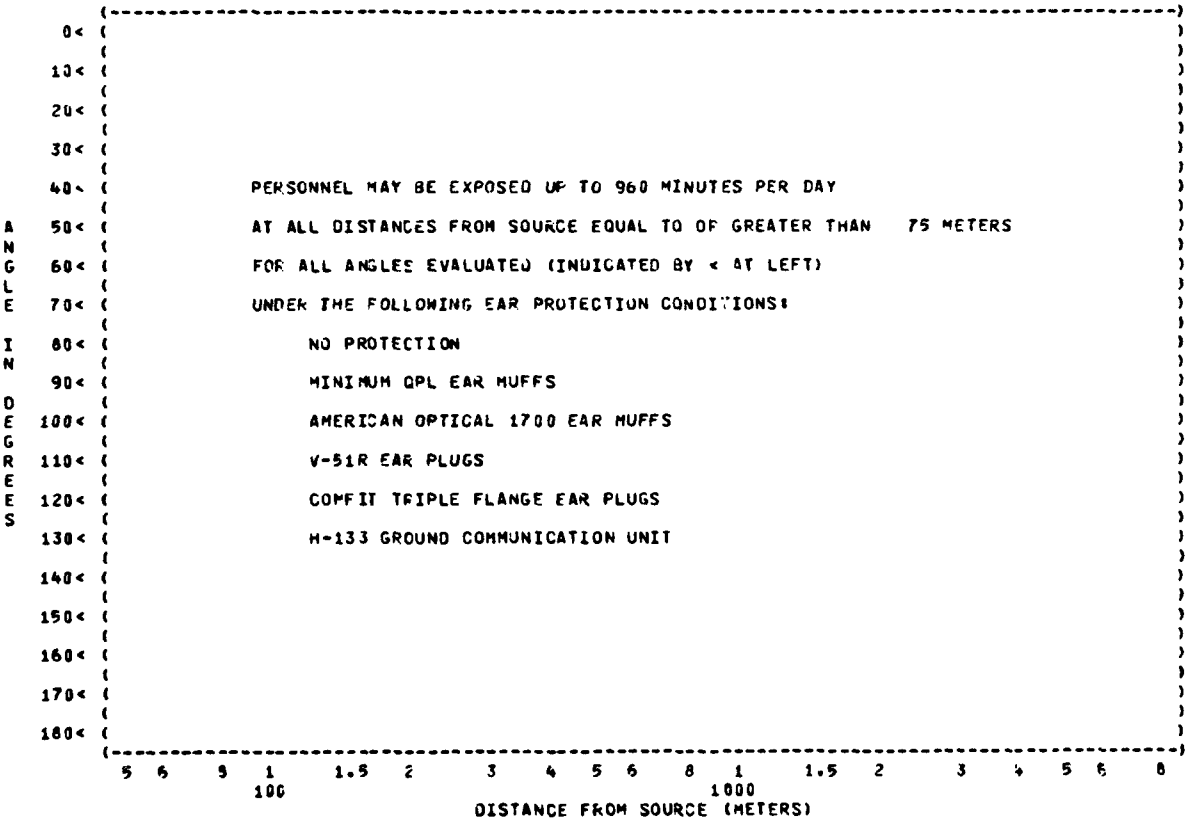


FIGURE 12.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)
NO PROTECTION

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 02
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	MIN
A	968

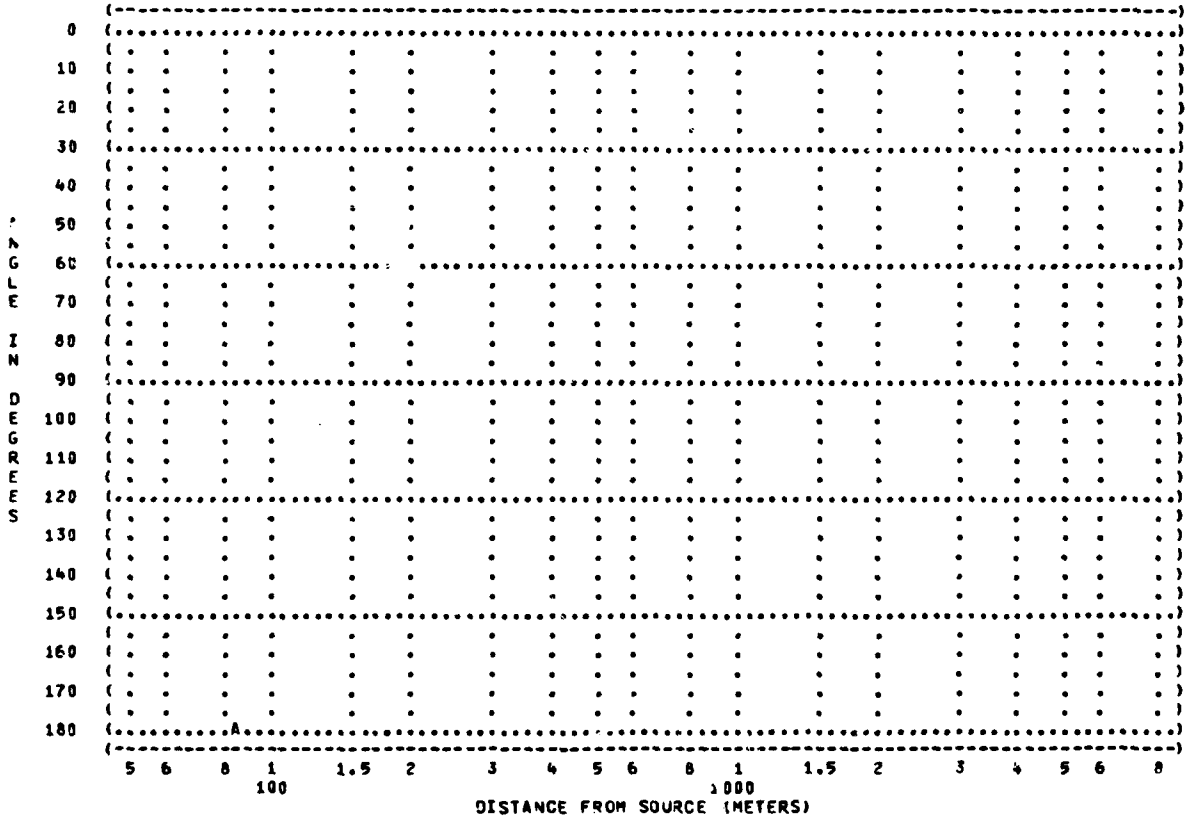


FIGURE 12.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION: OMEGA 1.4 TEST BF-716-081 RUN 02 26 OCT 81 PAGE 8

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

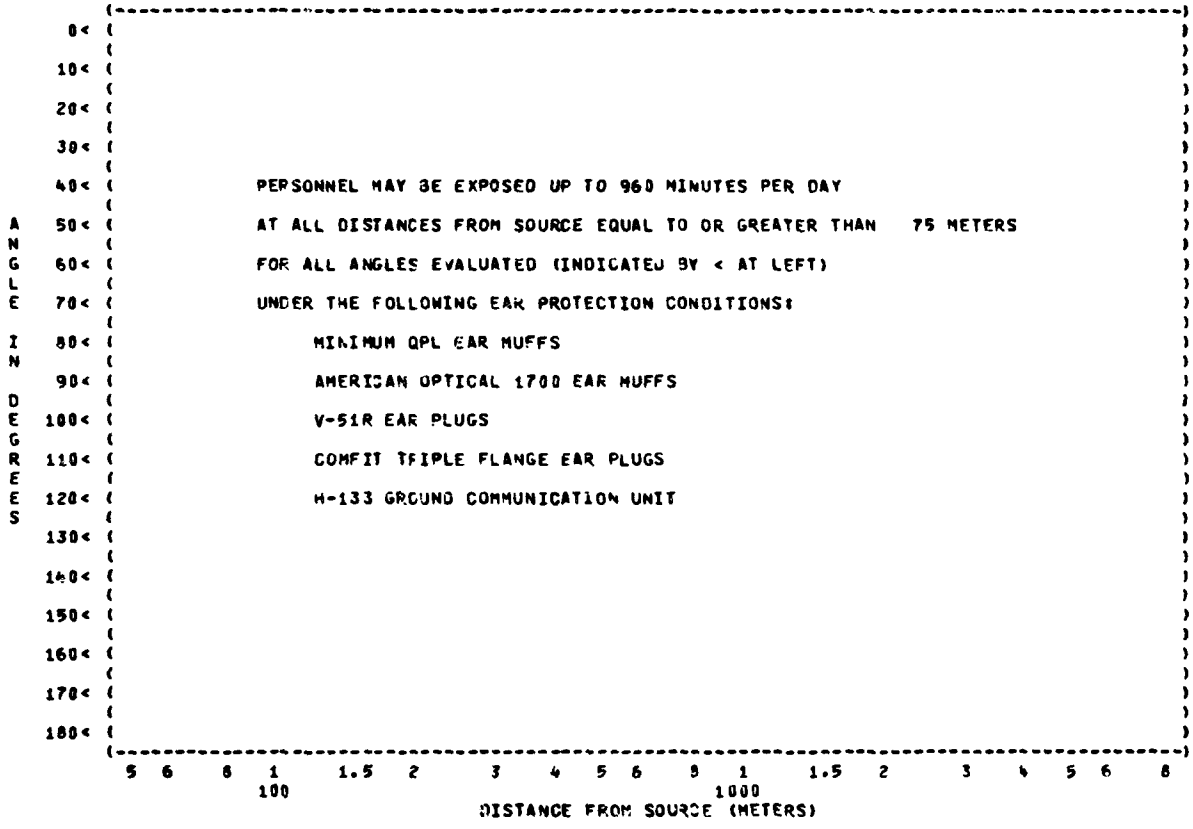


FIGURE: 12.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)
NO PROTECTION

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 03
26 OCT 91
PAGE 7

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT MIN
A 960

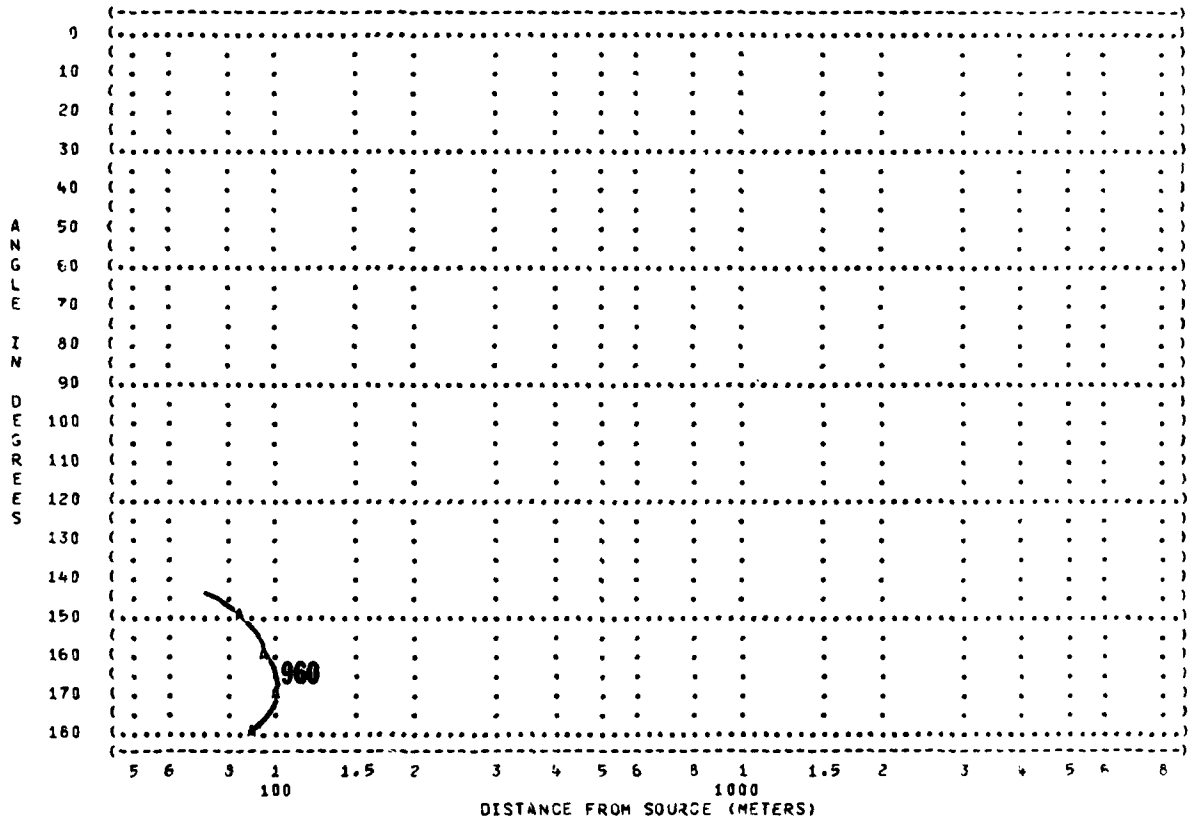


FIGURE 12.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)
MINIMUM QPL EAR MUFFS

IDENTIFICATION:
OMEGA 1.4
TEST AF-716-001
RUN 01
26 OCT 81
PAGE 8

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIEL) NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT A MIN 950

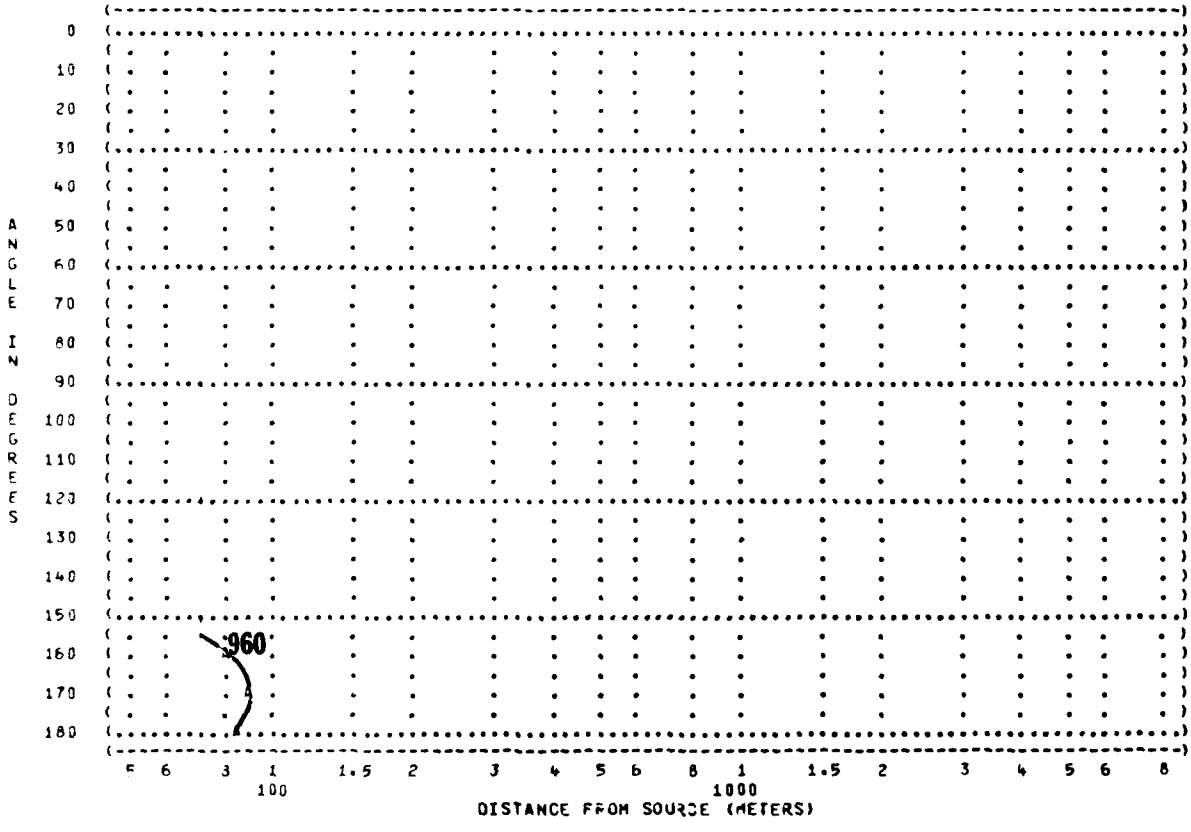


FIGURE: 12.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 03
26 OCT 81
PAGE 9

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

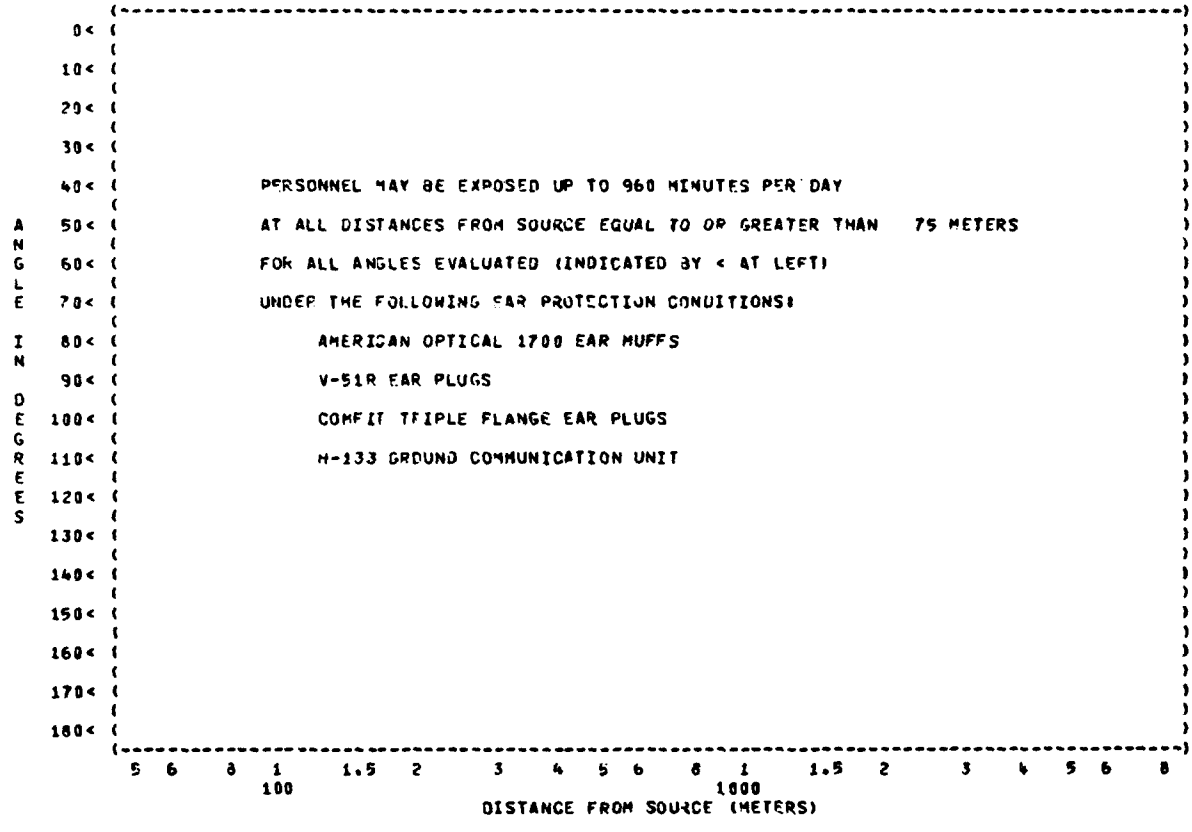


FIGURE: 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE)
FAR FIELD NOISE

OPERATION:
91% RPM
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEC 1.4
TES 7-716-001
RU 1
26 81
PA 8

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90

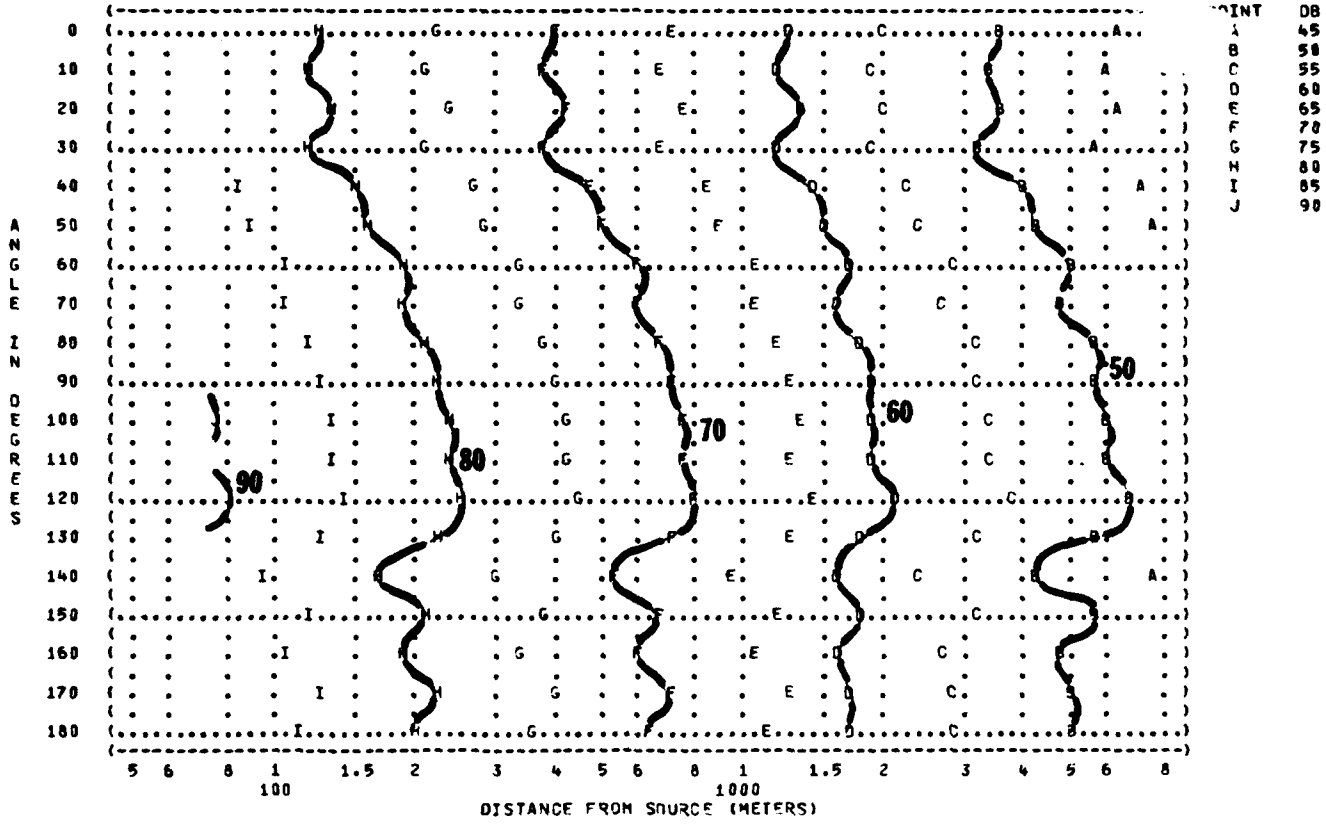


FIGURE 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

OPERATION: 91% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-716-001 RUN 01 26 OCT 81 PAGE 19

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

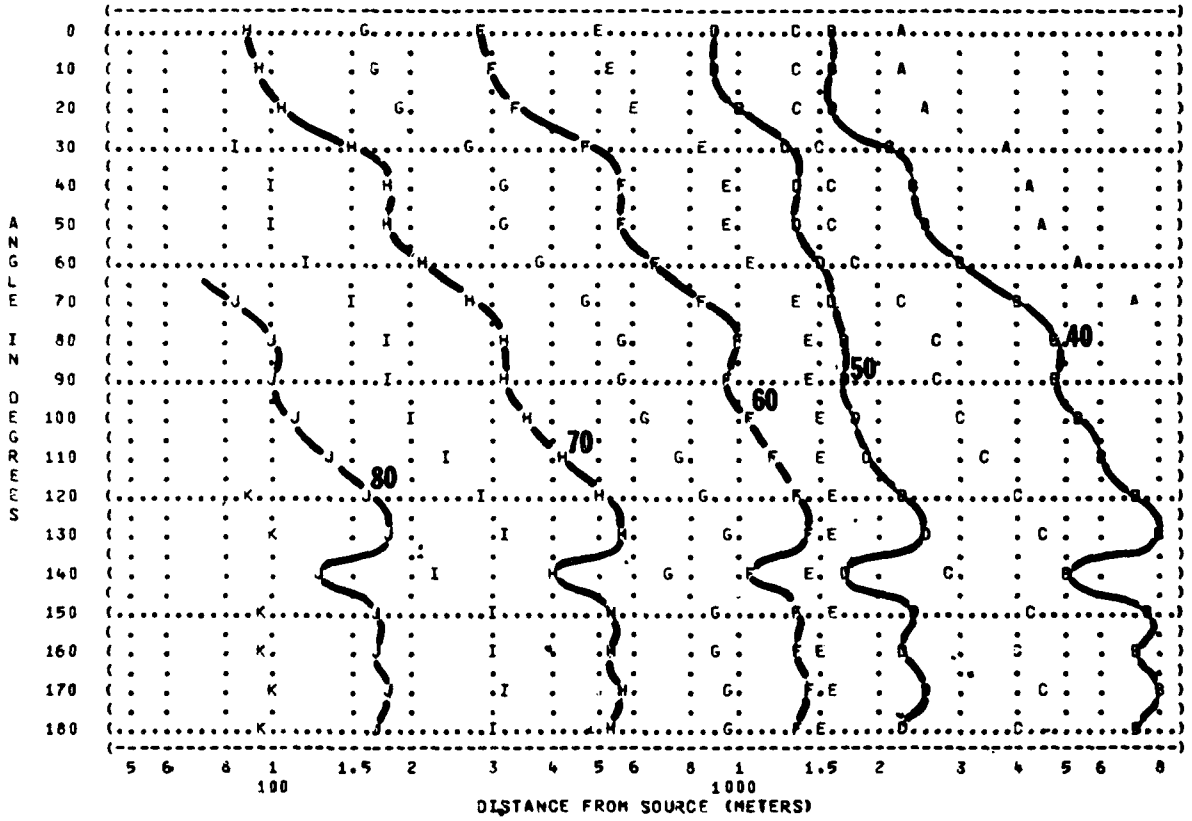


FIGURE: 12.8
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

OPERATION:
91% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 01
26 OCT 81
PAGE 20

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

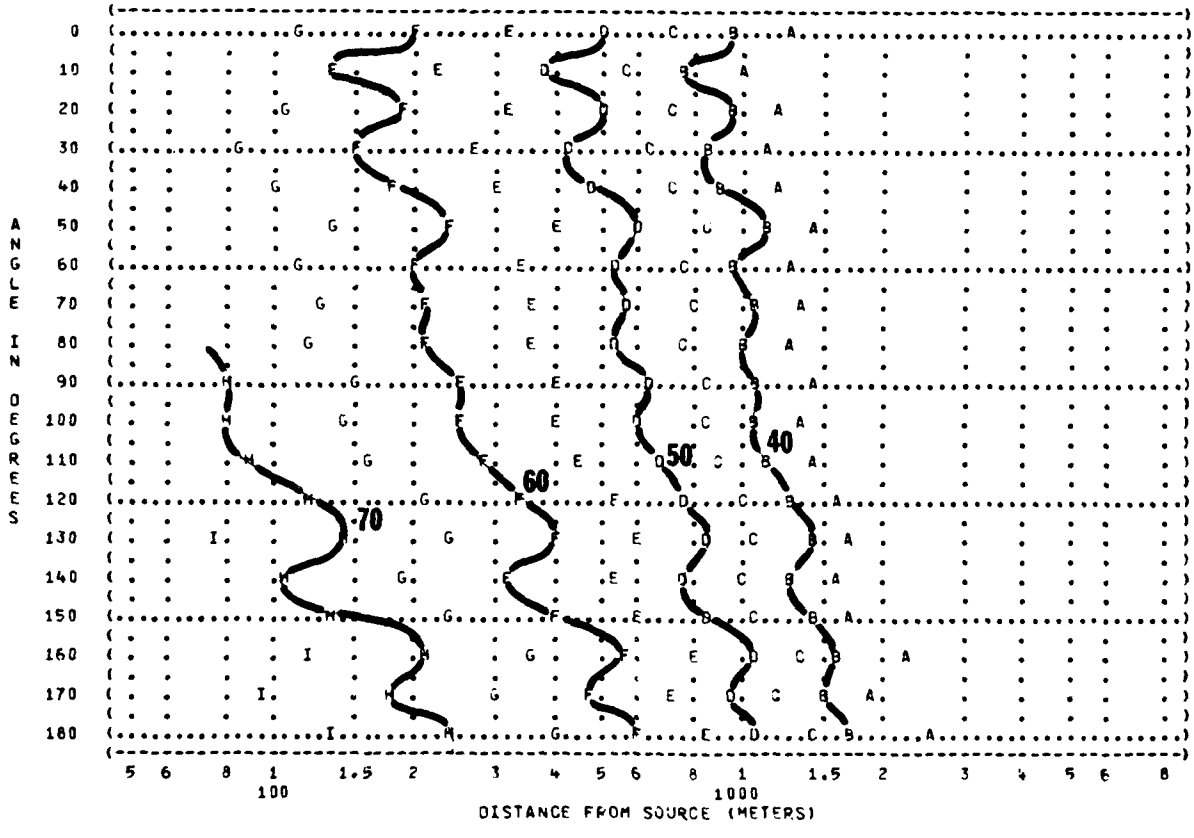


FIGURE: 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

OPERATION: 91% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = 760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-716-001 RUN #1 26 OCT 81

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

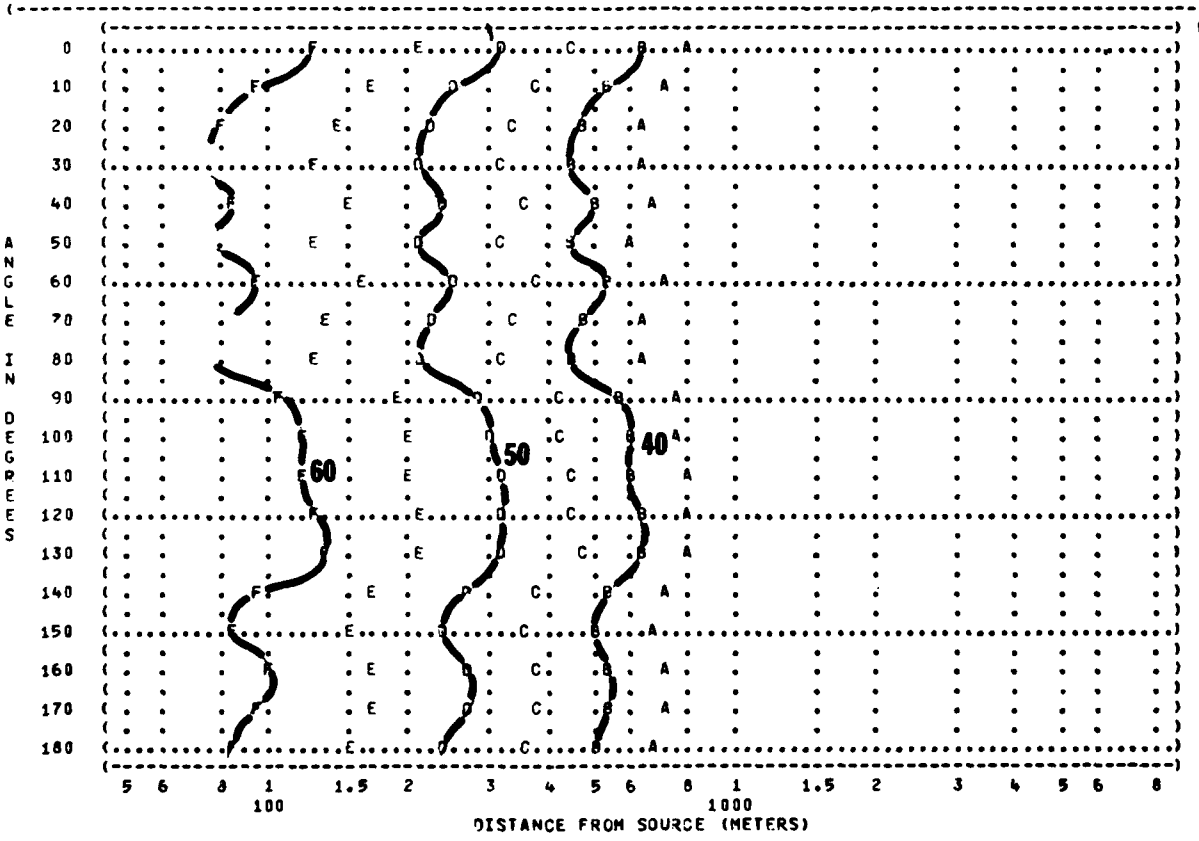


FIGURE: 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (D3) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

OPERATION:
91% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 01
26 OCT 81
PAGE 22

POINT	DB
A	35
B	40
C	45
D	50
E	55

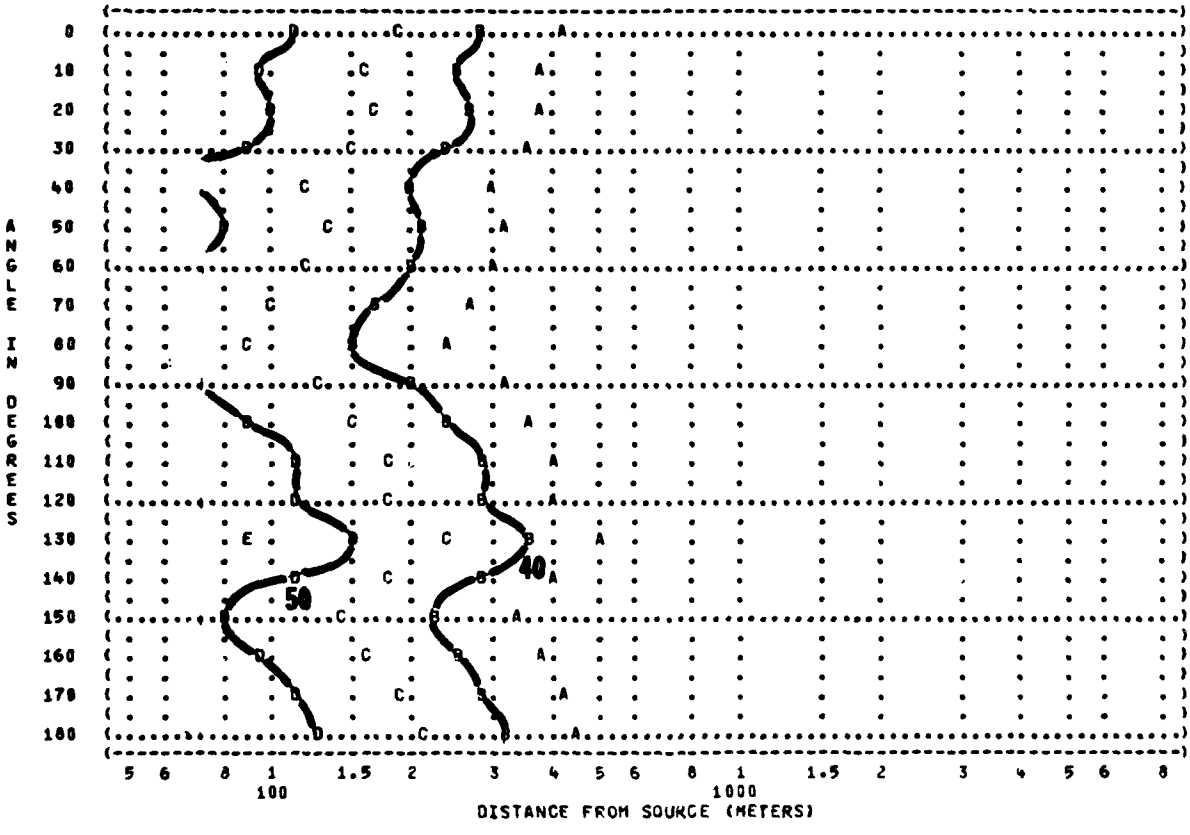


FIGURE: 12.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

OPERATION:
91% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-881
RUN 01
26 OCT 81
PAGE 23

POINT	DB
A	35
B	40
C	45
D	50

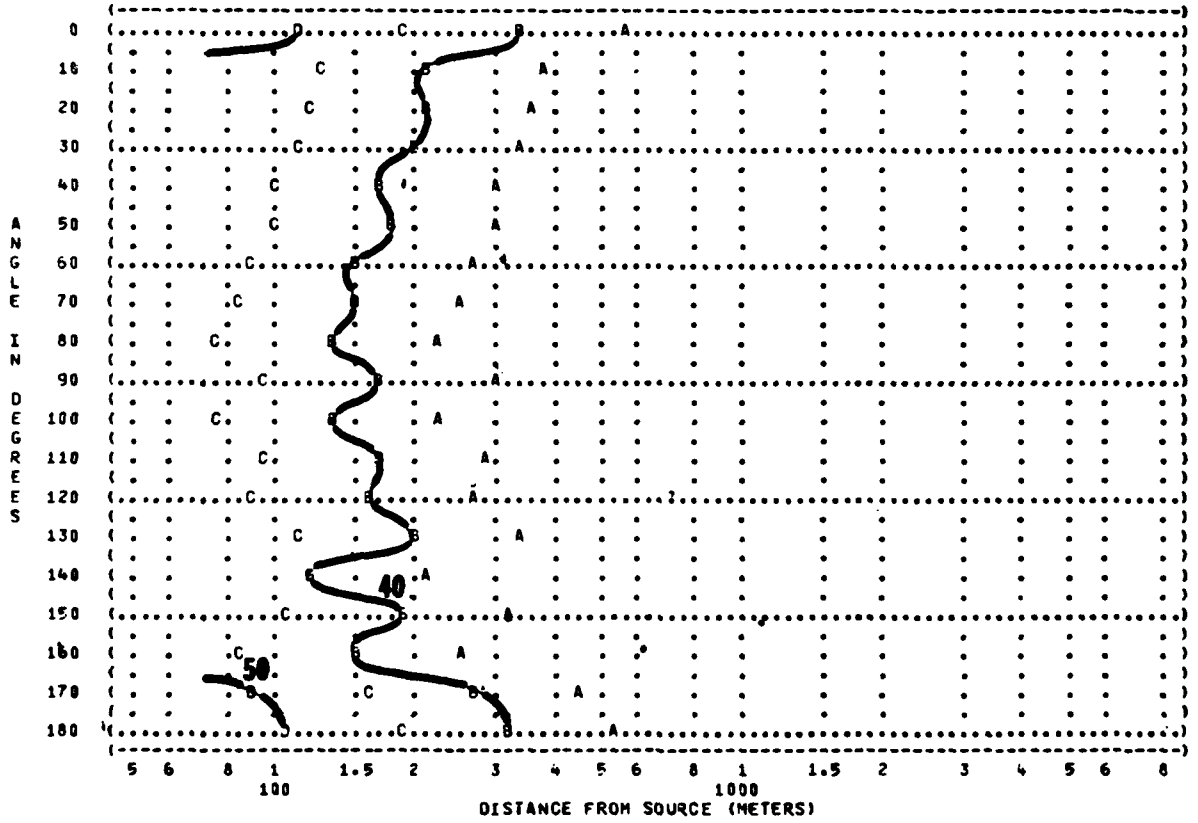


FIGURE 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

OPERATION: 91% RPM SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-716-001 RUN 01 26 OCT 81 PAGE 24

POINT	DB
A	35
B	40
C	45
D	50

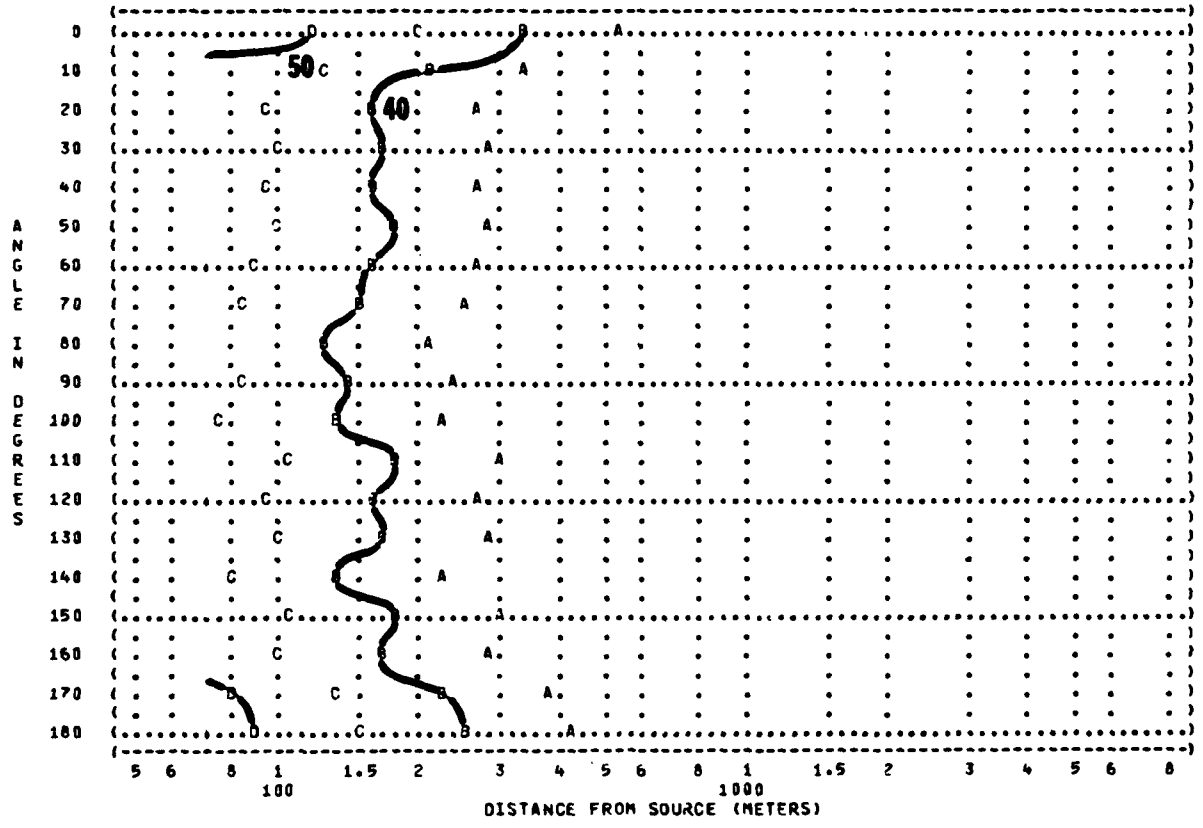


FIGURE: 12.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

OPERATION:
91% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-716-001
RUN 01
26 OCT 81
PAGE 25

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

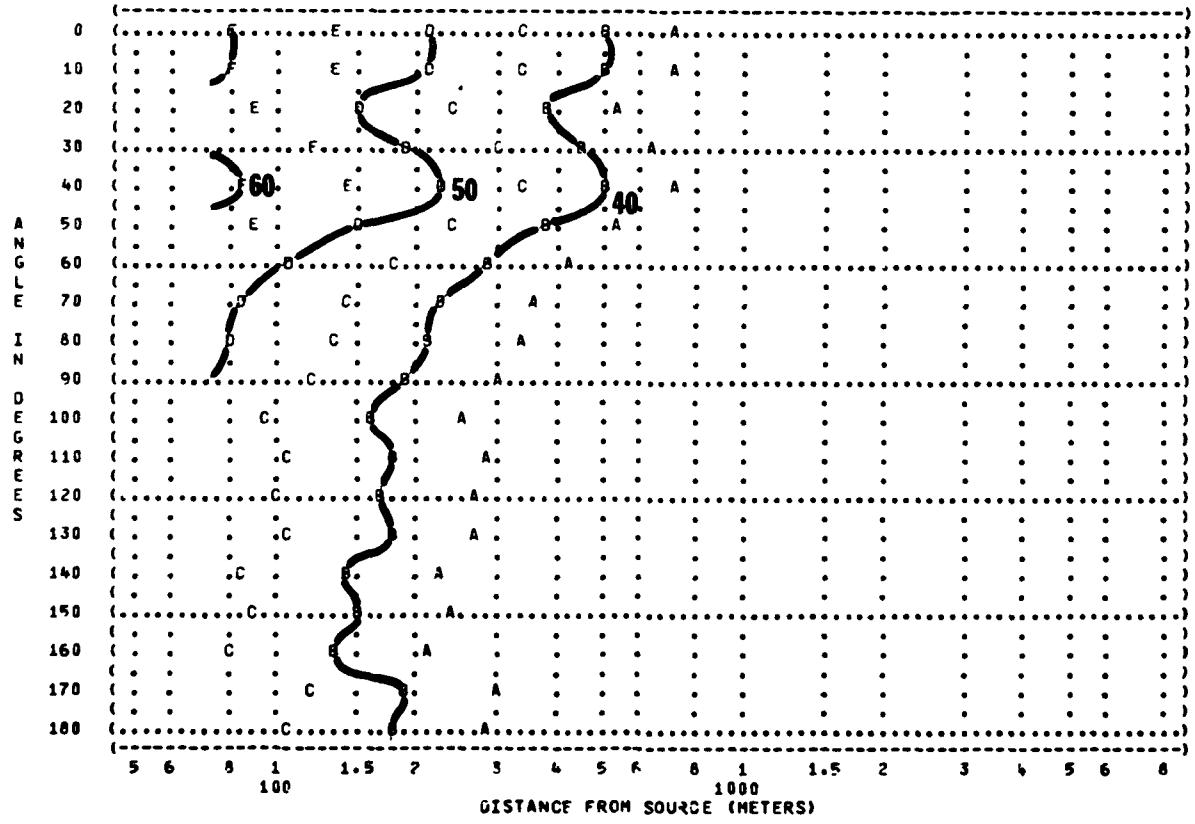


FIGURE: 12.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
4000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 01
26 OCT 81
PAGE 26

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

OPERATION:
91% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

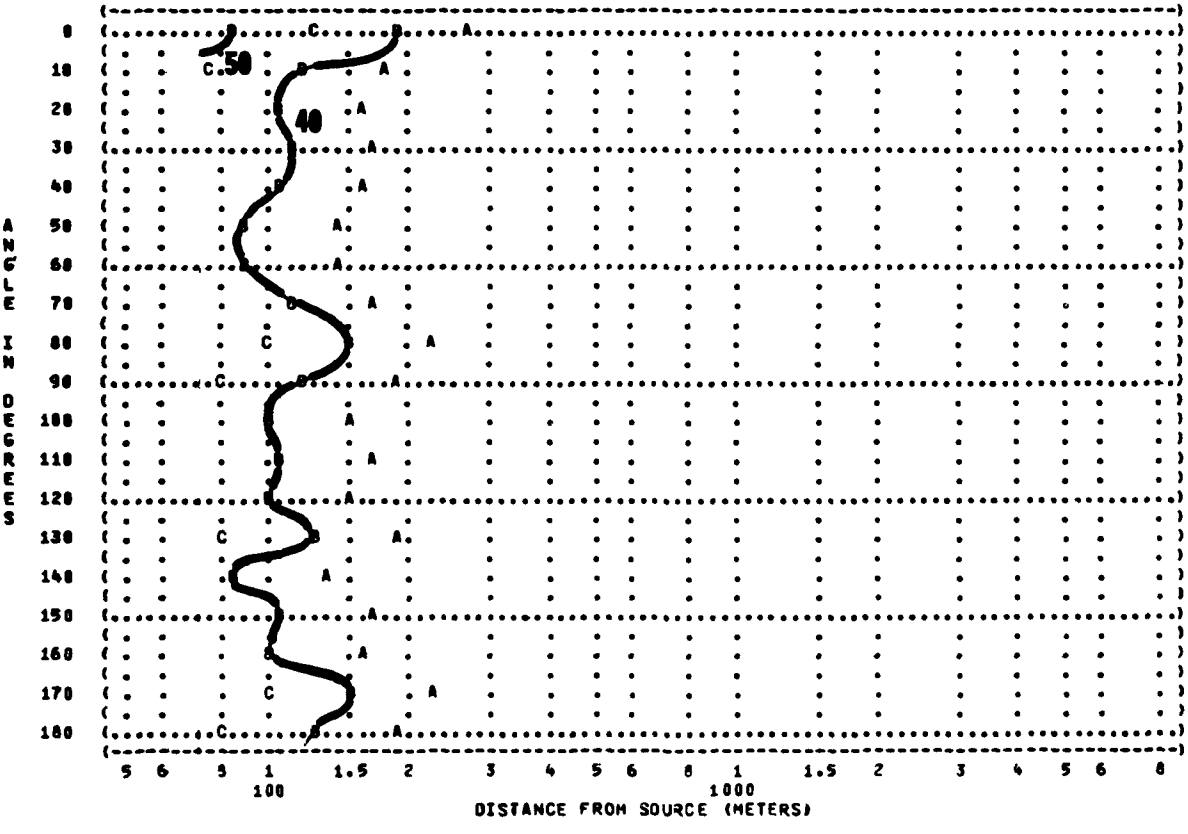


FIGURE 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE)
FAR FIELD NOISE

OPERATION:
91% RPM
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 01
26 OCT 81
PAGE 27

POINT	DB
A	35
B	40
C	45
D	50

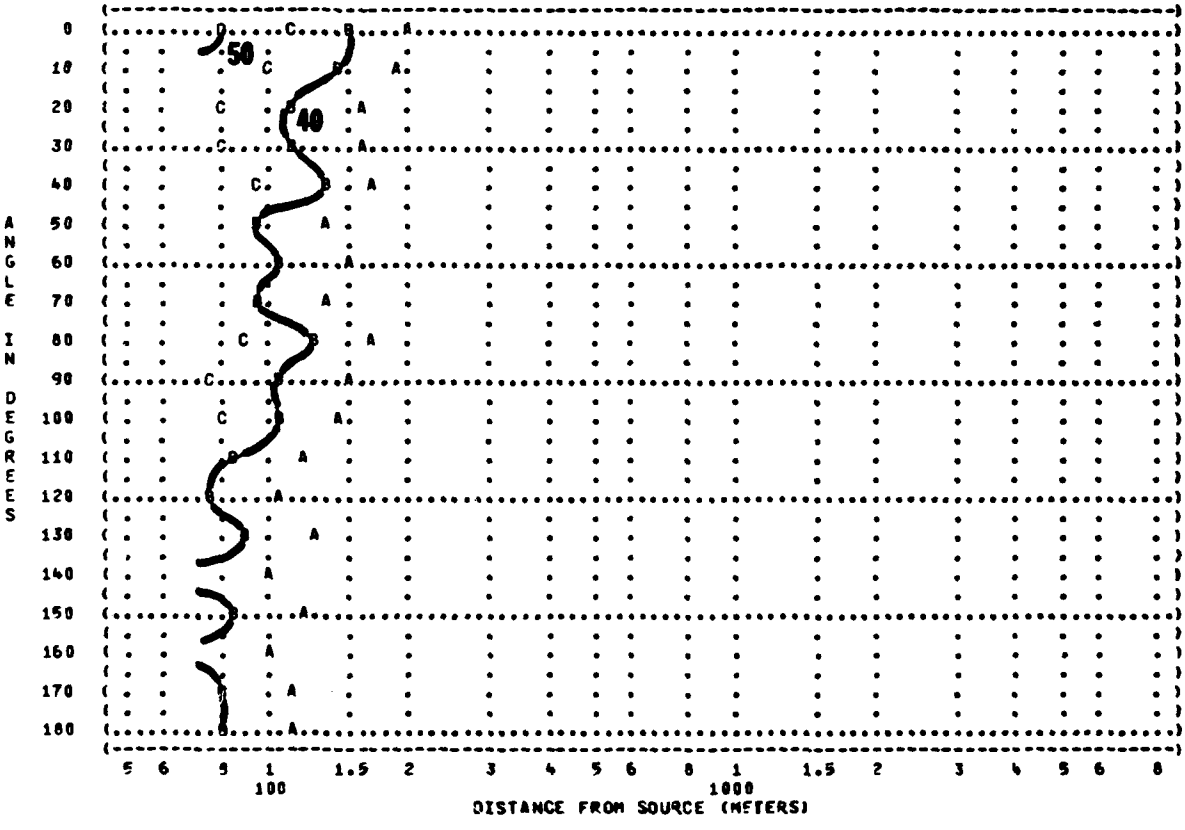


FIGURE 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 02
26 OCT 81
PAGE 18

POINT	DB
A	55
B	60
C	65
D	70
E	75
F	80
G	85
H	90
I	95
J	100

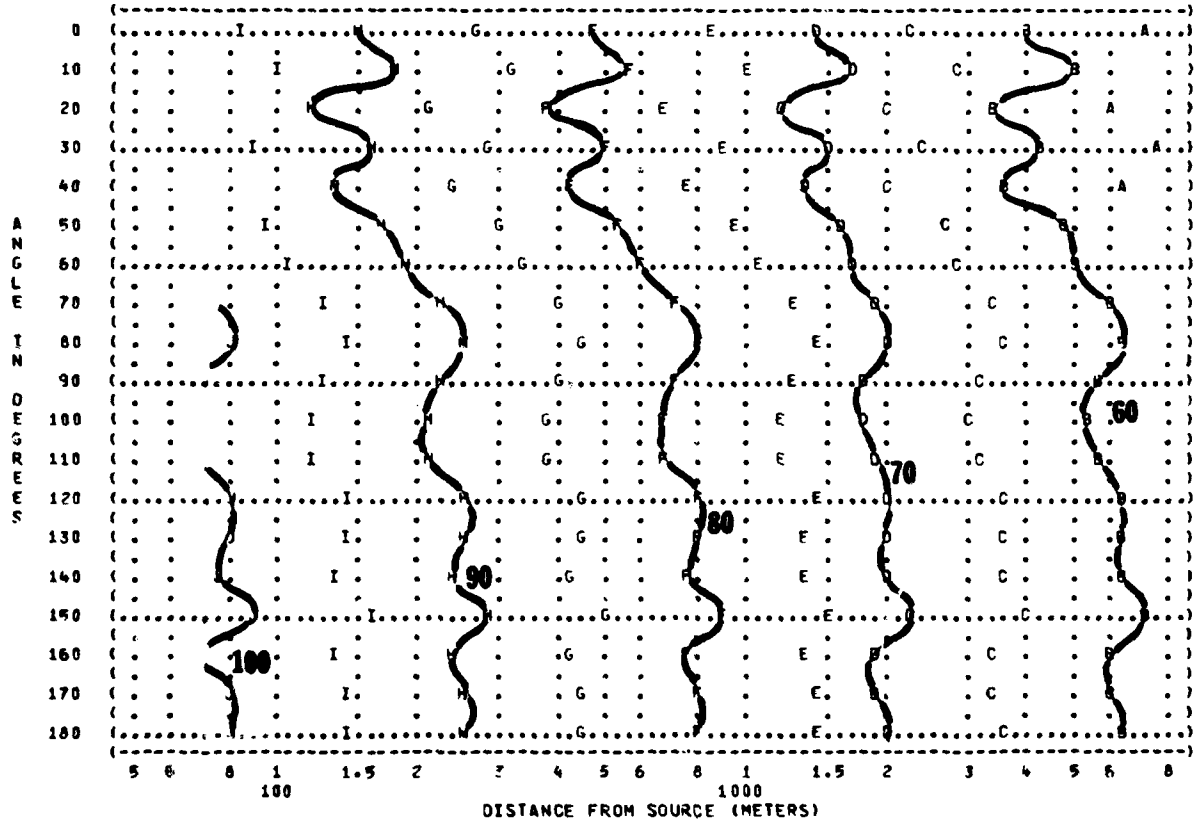


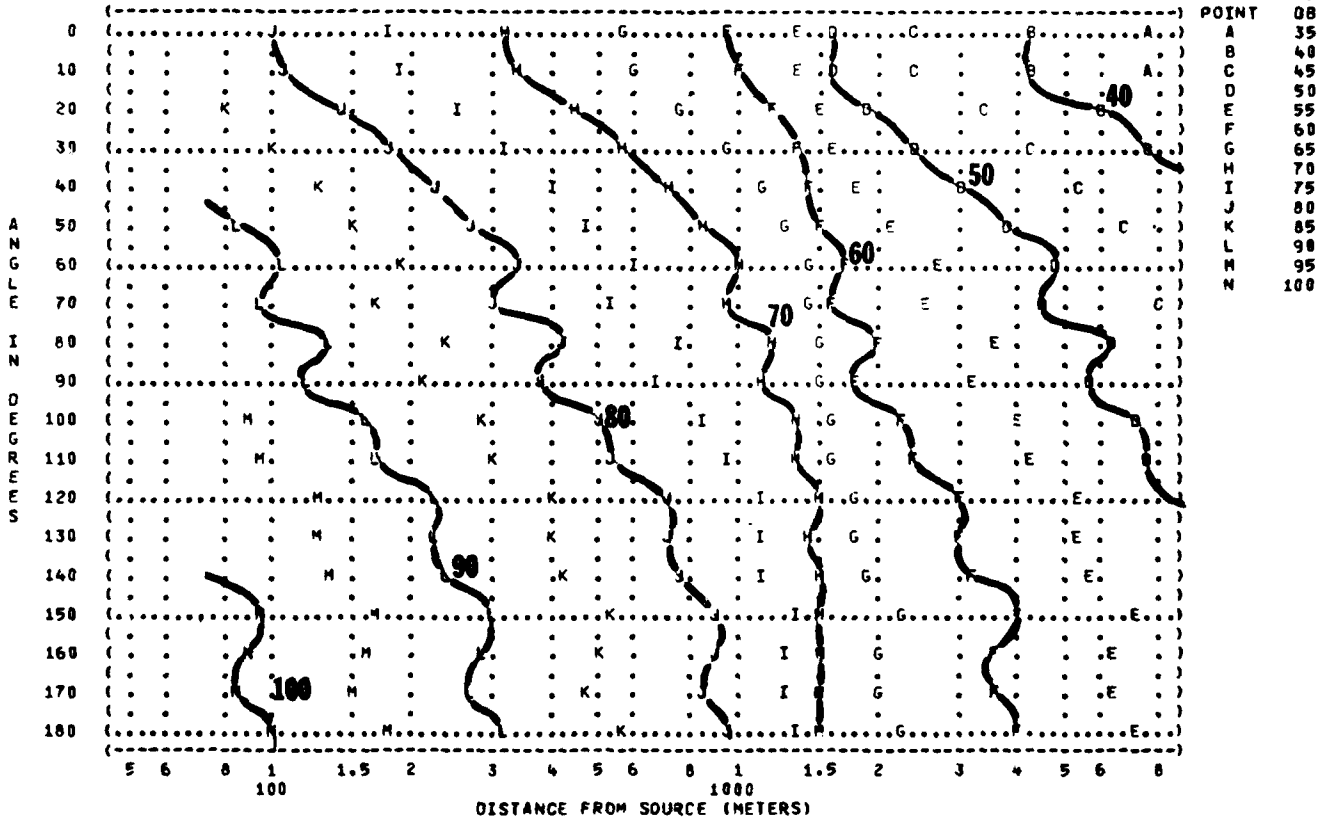
FIGURE 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 02
26 OCT 81
PAGE 19

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95
N	100

FIGURE 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-716-001 RUN 02 26 OCT 81 PAGE 20

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95

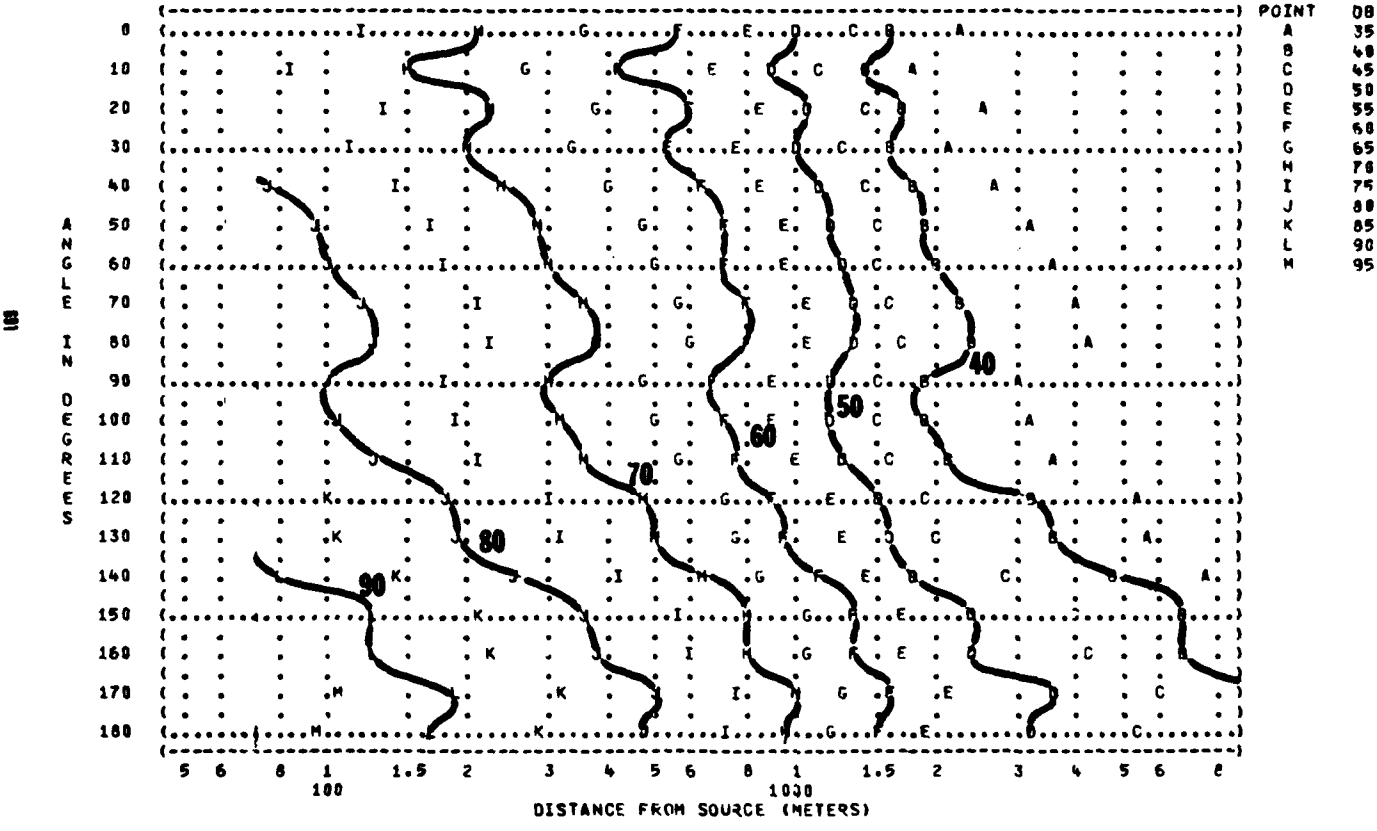


FIGURE: 12.8

SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 02
26 OCT 81
PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

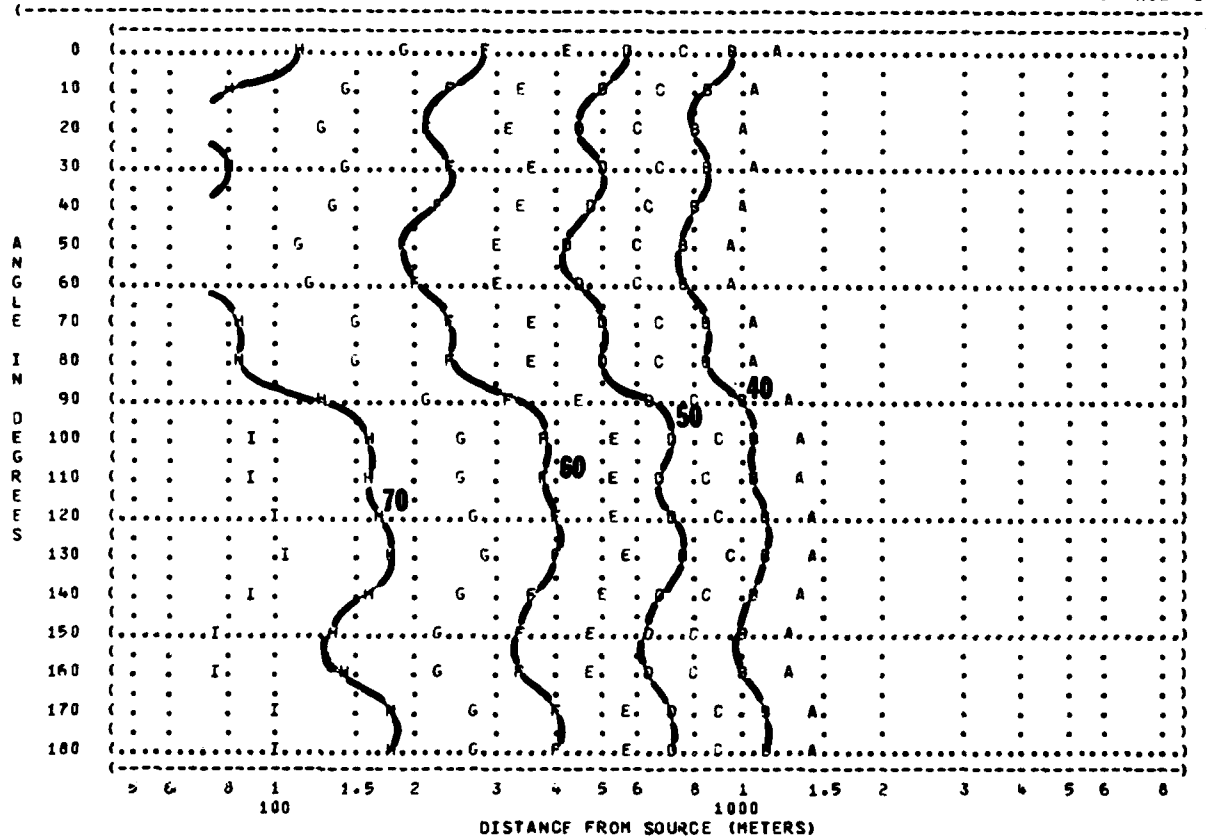


FIGURE 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-716-001 RUN 02 26 OCT 81 PAGE 22

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

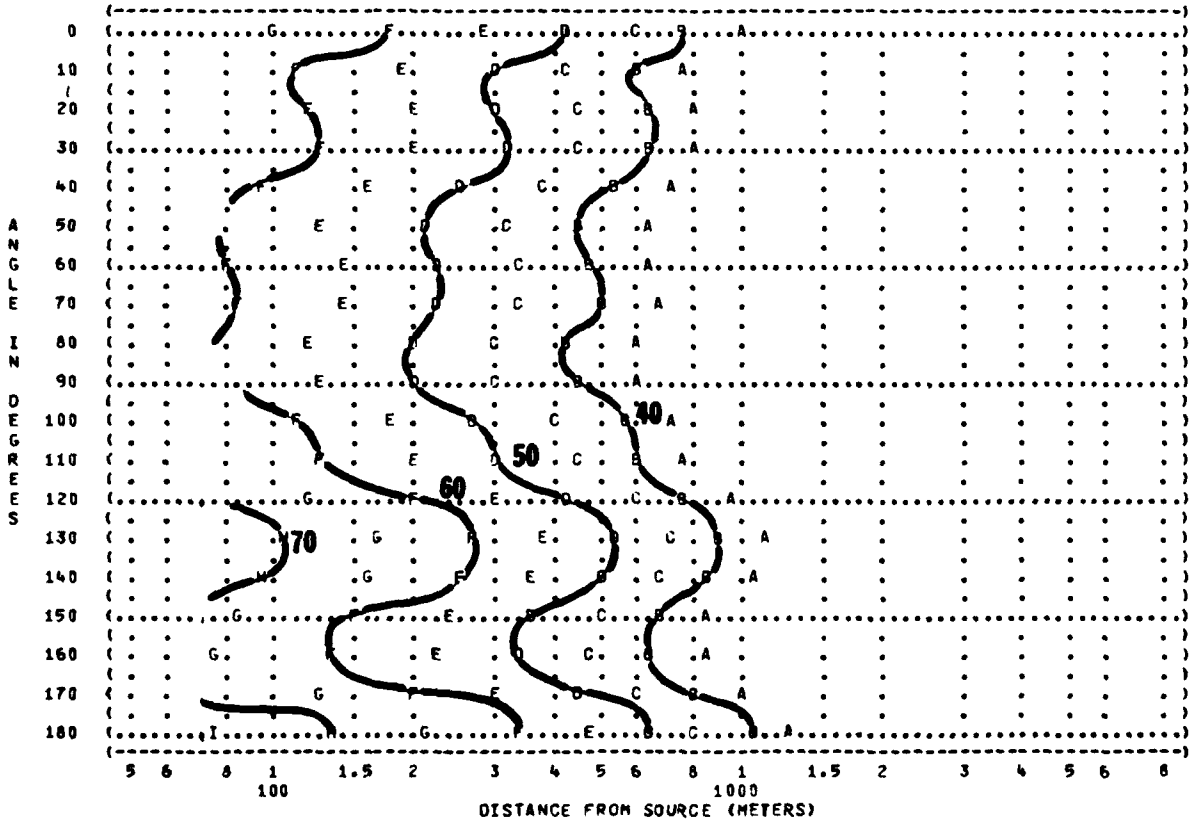


FIGURE: 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 02
26 OCT 81
PAGE 23

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

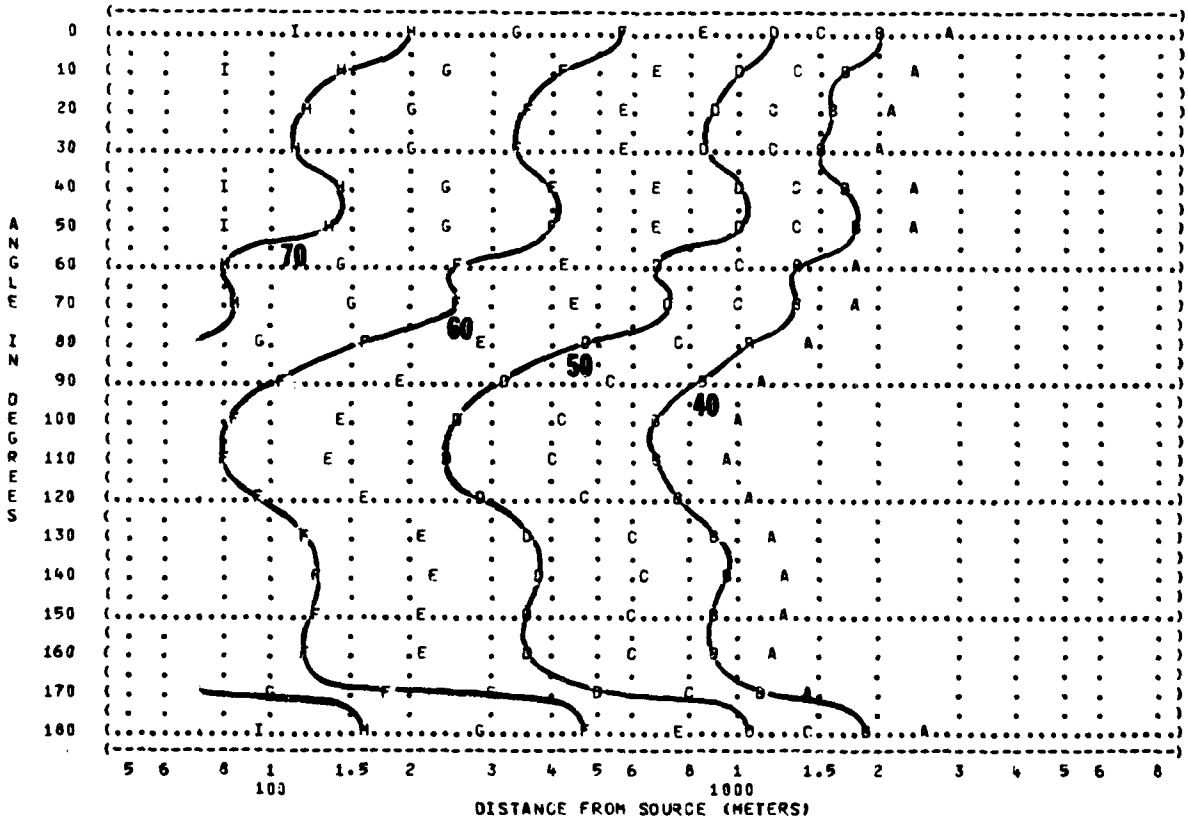


FIGURE 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-716-001 RUN 02 26 OCT 81 PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

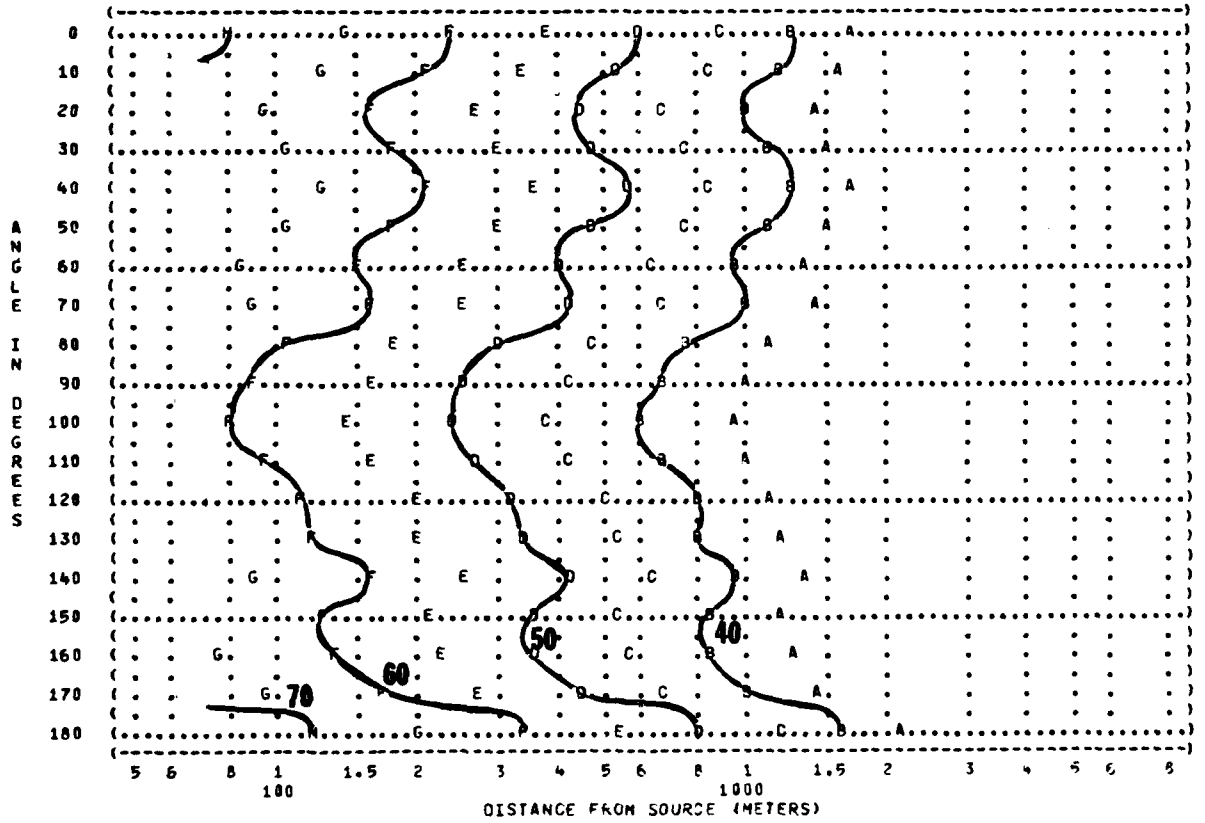


FIGURE: 12.8
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-881
RUN 02
26 OCT 81
PAGE 25

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

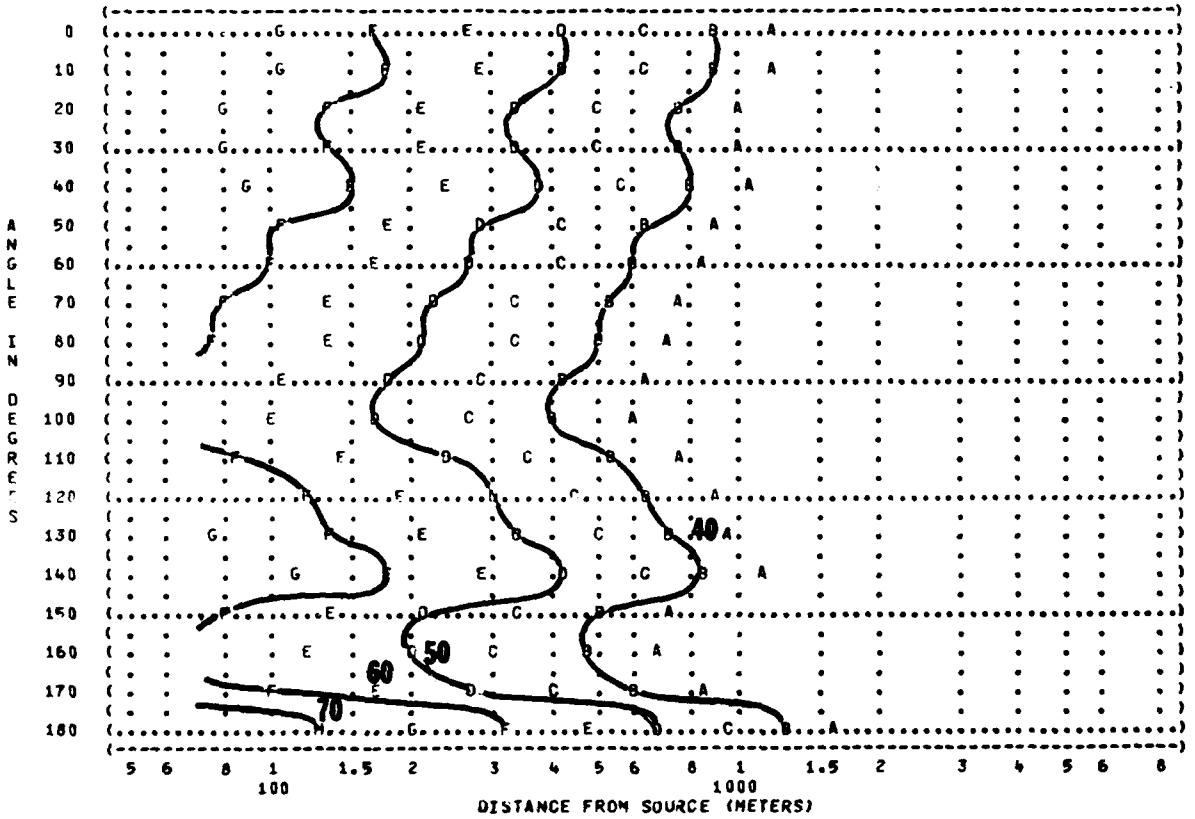


FIGURE 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

IDENTIFICATION: UNCLA 1.4 TEST RE-F10-001

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 5 C BAR PRESS = .760 M HG REL HUMID = 70 %

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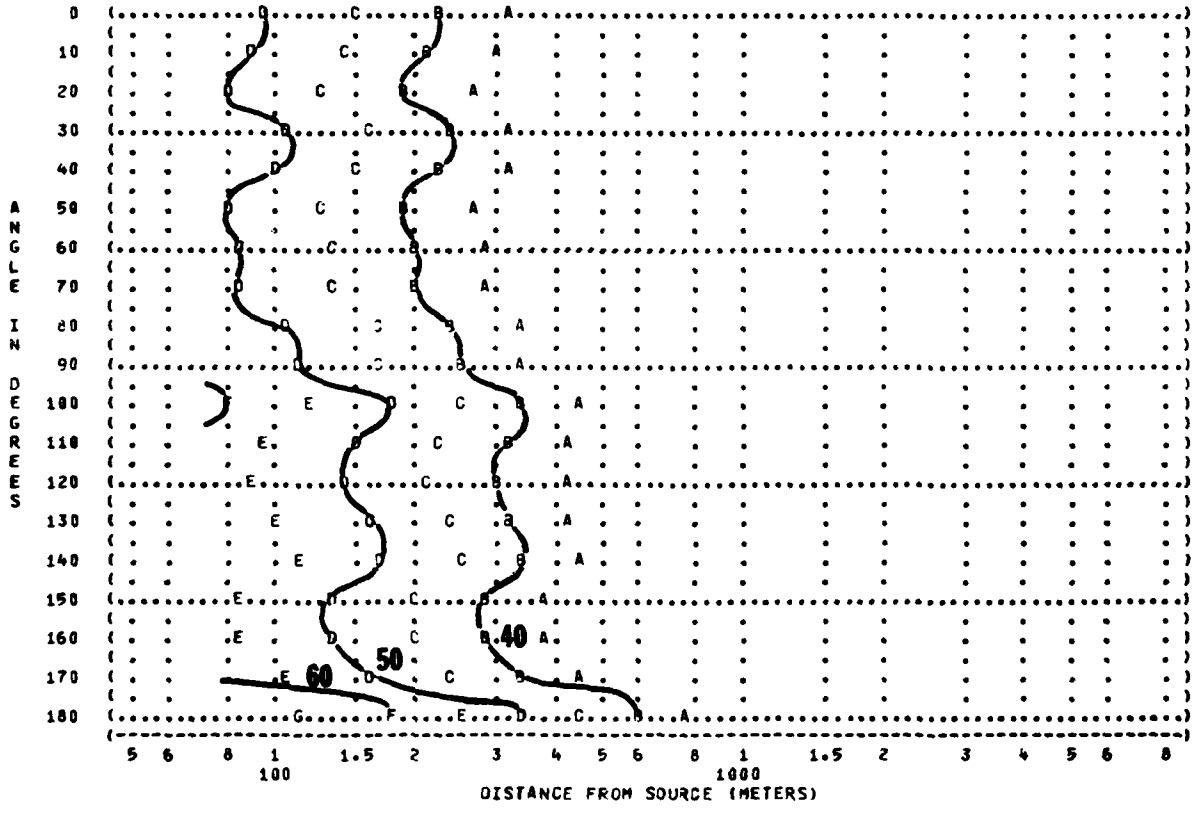


POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

FIGURE: 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8300 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 79 %

IDENTIFICATION: OMEGA 1.4 TEST BF-716-001 RUN 02 26 OCT 81 PAGE 27

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

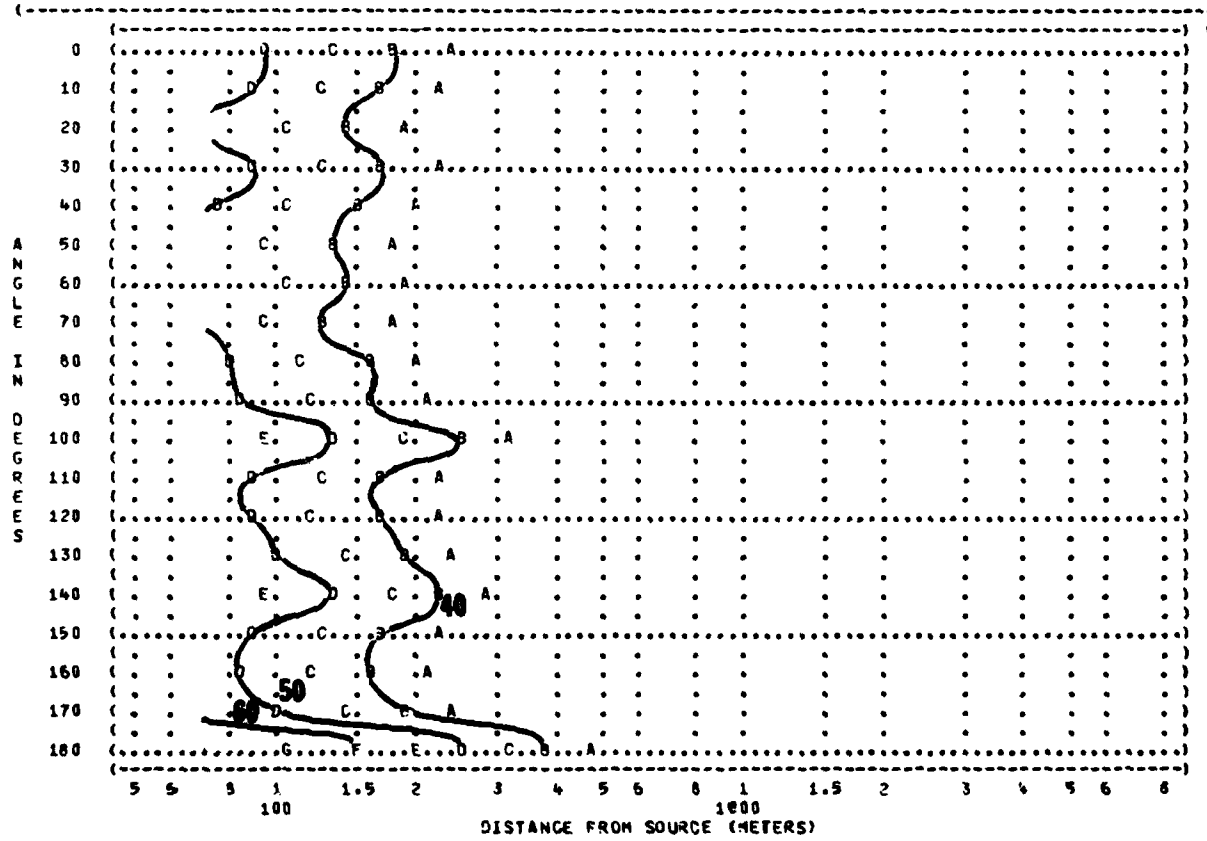


FIGURE: 12.8

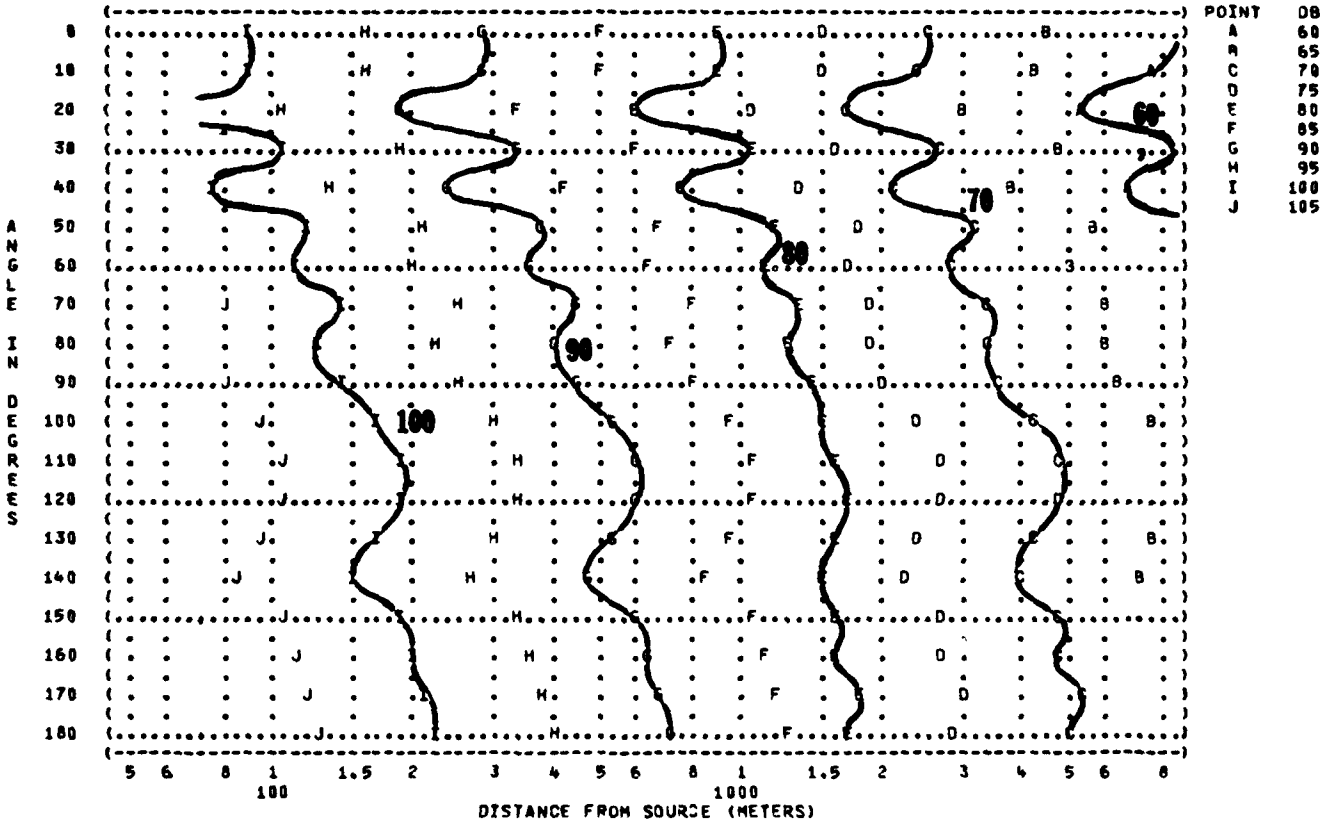
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-716-001
RUN 03
26 OCT 81
PAGE 18



POINT	DB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95
I	100
J	105

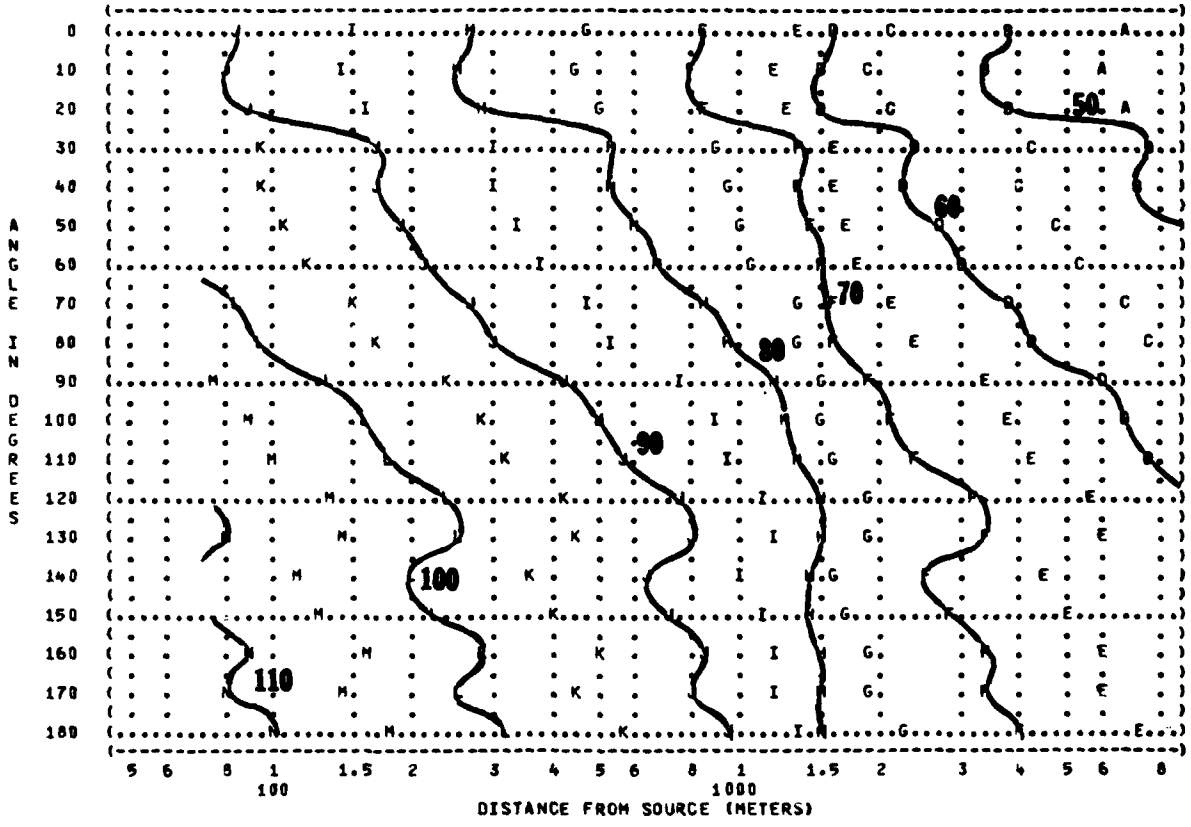
FIGURE: 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 03
26 OCT 81
PAGE 19



POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95
L	100
M	105
N	110

FIGURE: 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 03
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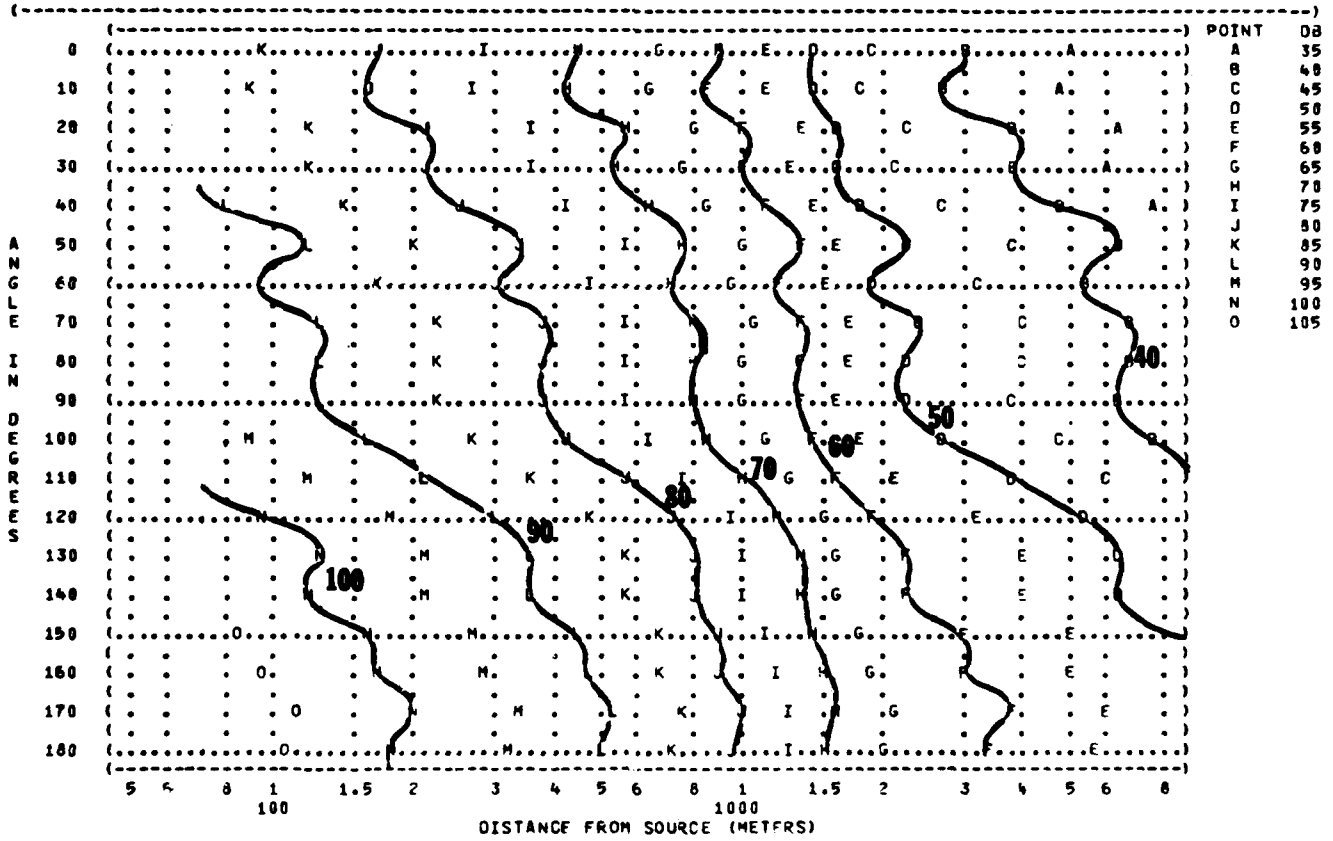
NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95
N	100
O	105

FIGURE 12a
SOUND PRESSURE LEVEL (SPL)
EQUAL LEVEL CONTOURS (DB)
125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J79-P-19 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 03
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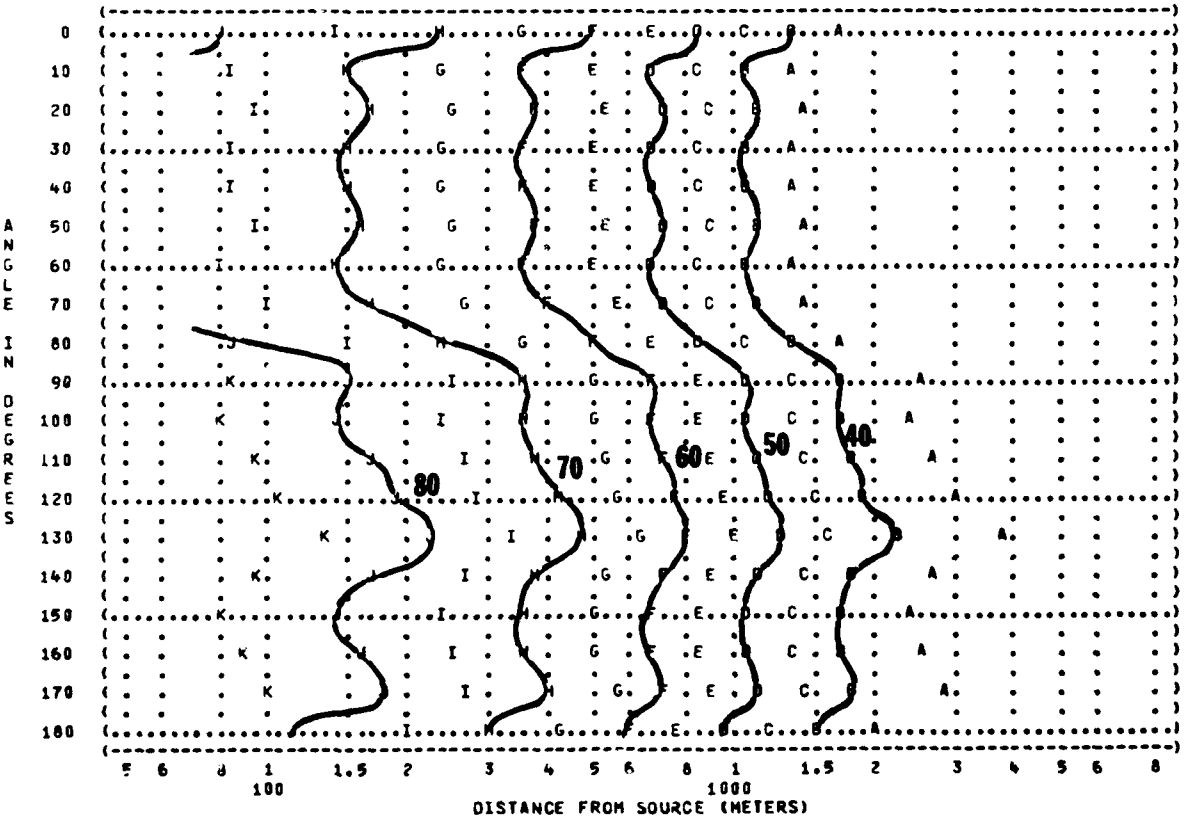
PAGE 21



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

FIGURE: 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-881
RUN 03
26 OCT 81
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NOISE SOURCE/SUBJECT:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

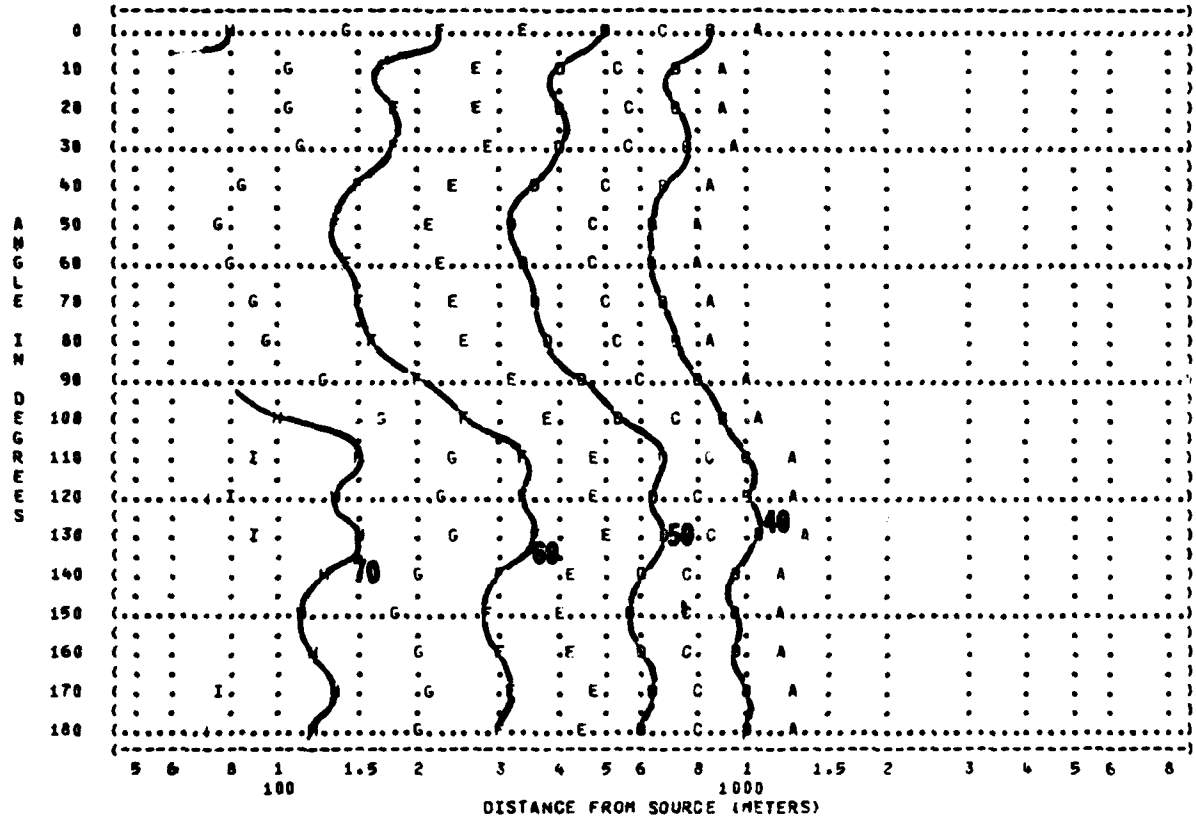


FIGURE: 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-716-081 RUN 03 26 OCT 81

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

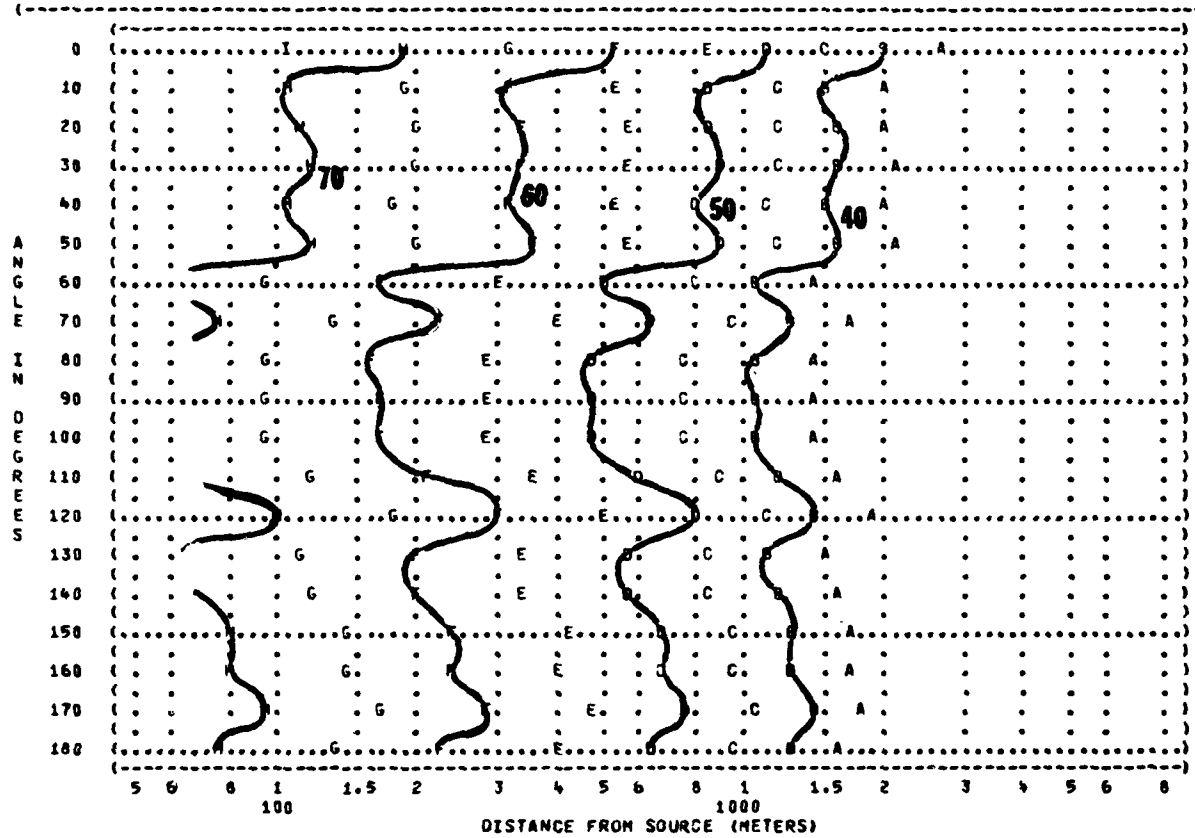
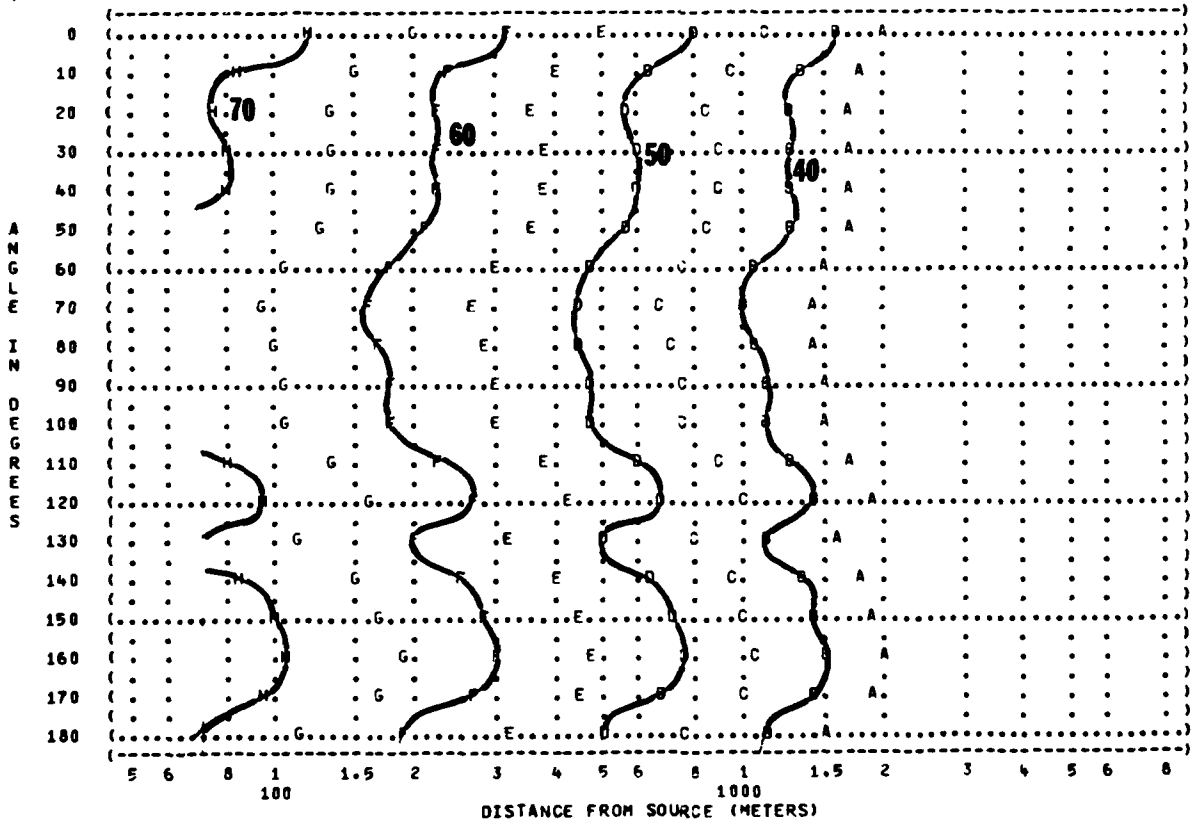


FIGURE 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:
J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE	AFTERBURNER POWER (103%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE	TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-001
RUN 03
26 OCT 81
PAGE 24



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE: 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (D3) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-716-081 RUN 03 26 OCT 81 PAGE 25

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

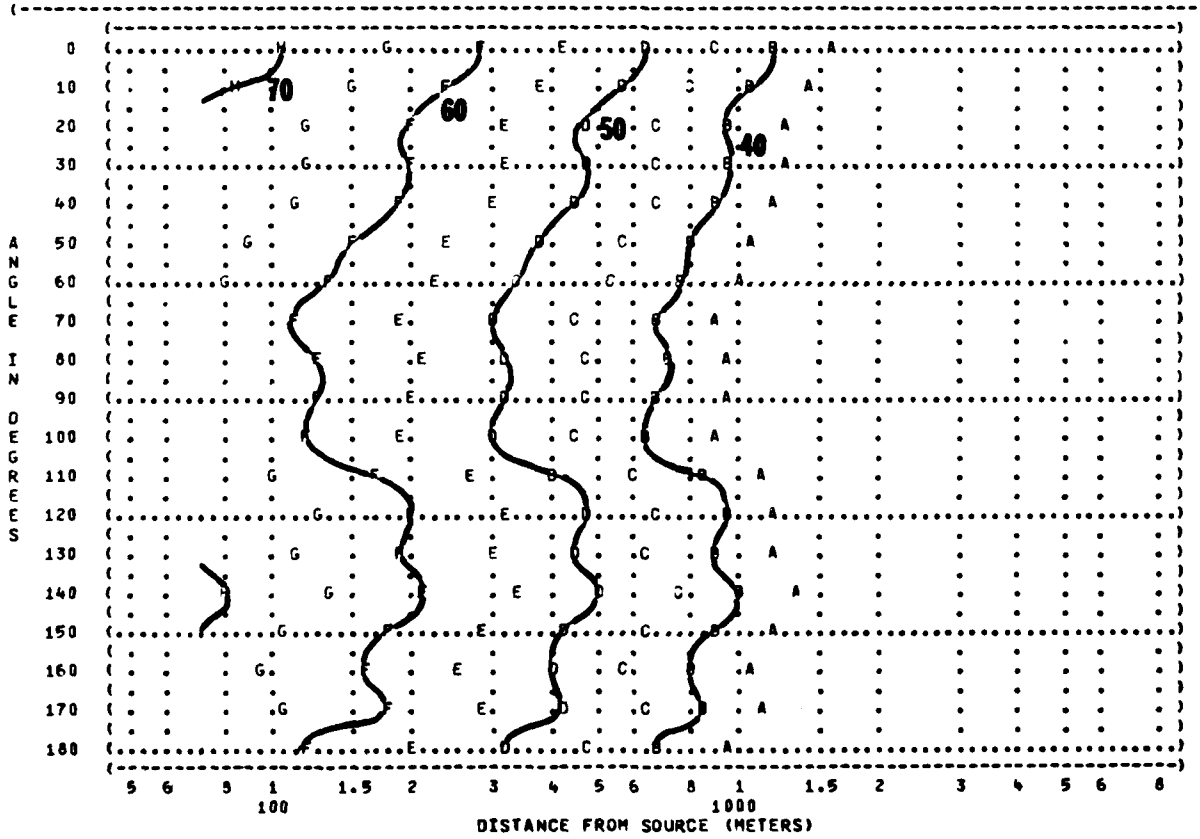


FIGURE: 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-716-081 RUN 03 26 OCT 81 PAGE 26

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

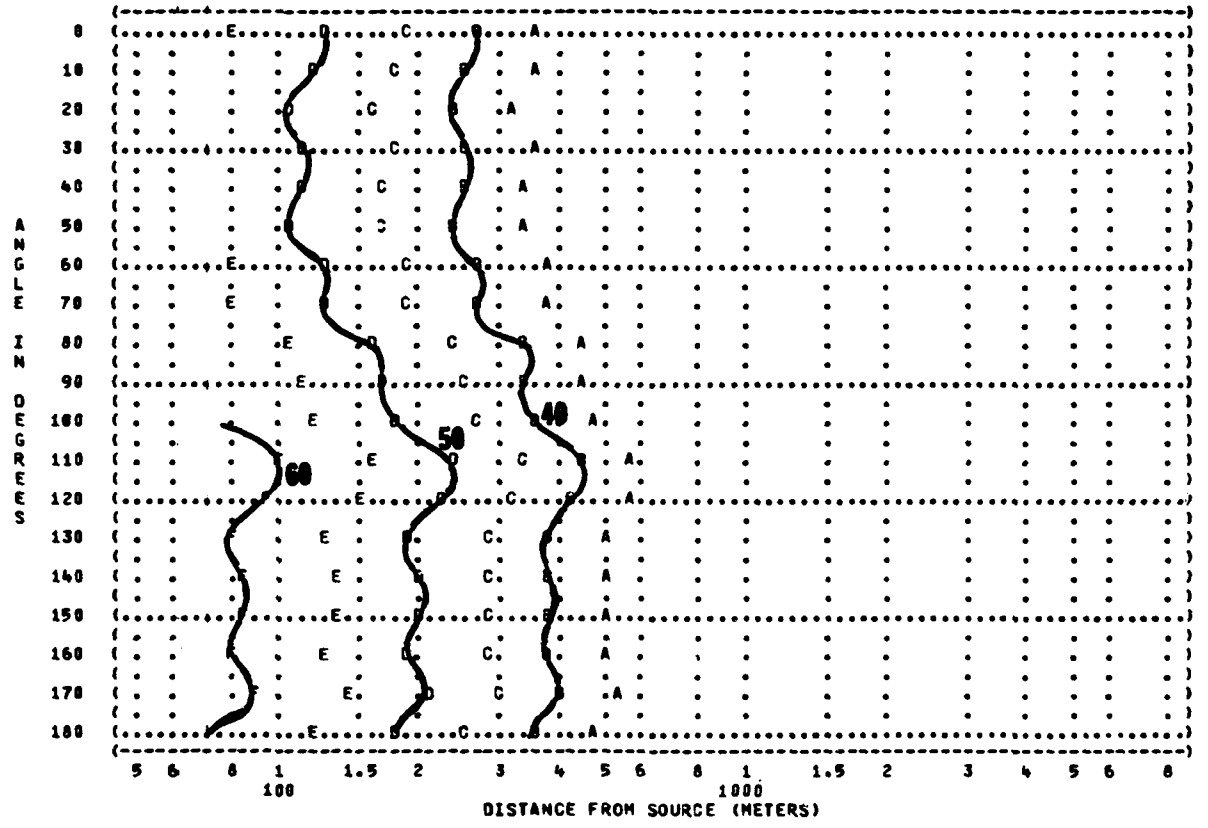


FIGURE: 12.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-19 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-716-001 RUN 03 26 OCT 81 PAGE 27

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

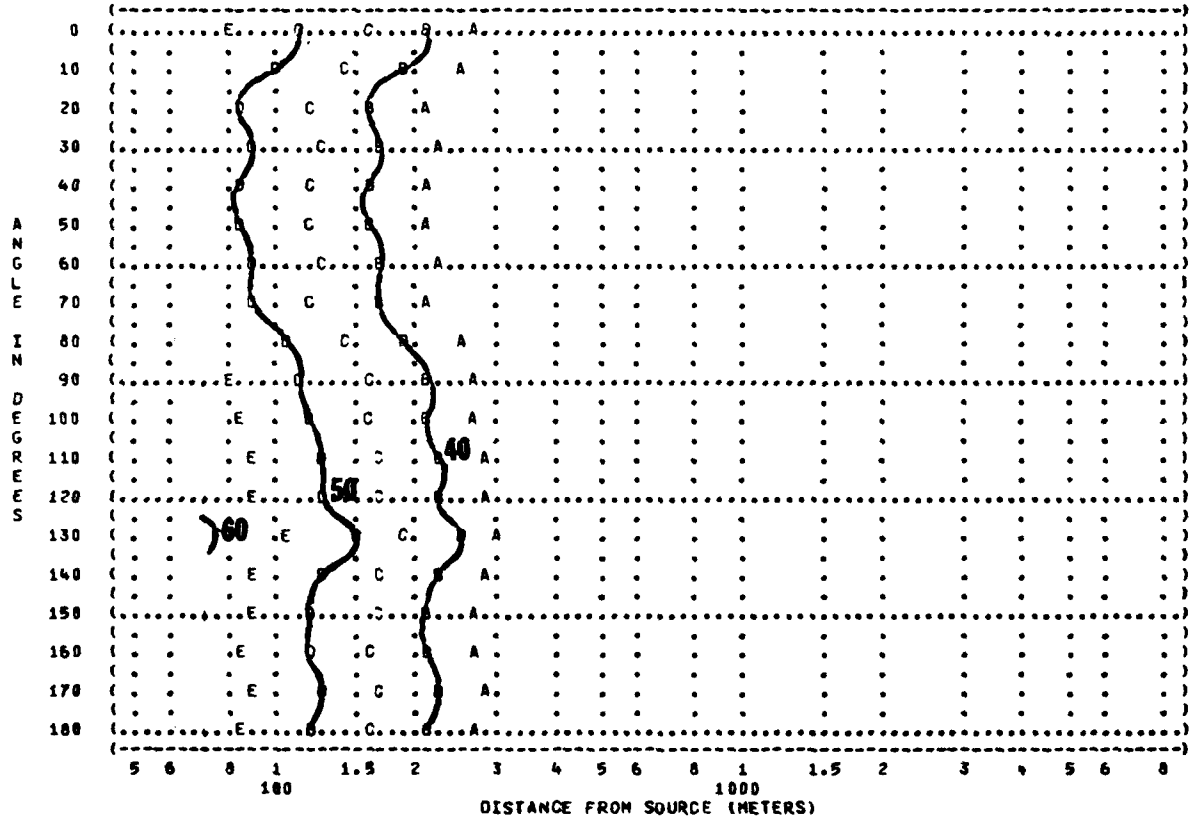


TABLE 13.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS J75-P-17 ENGINE IN THE ASE-TEXAS INC. HUSH-HOUSE, GROUND RUNUP KELLY AFB TEXAS, TEST #BF-717-001 (Engine For The F-106 Aircraft)

Engine Operation	Single Engine	
90%	90	% RPM
	4597	LBS/HR FF
	737	EGT
Military Power	103	% RPM
	11709	LBS/HR FF
	1117	EGT
Afterburner Power	103	% RPM
	1112	EGT
Meteorology		
Temperature	32	C
Bar Pressure	.741	M Hg
Rel Humidity	45	%
Wind - Speed	3	M/Sec (6 Kts)
- Direction	140	Deg

TABLE: MEASURED SOUND PRESSURE LEVEL (DB)
13.2 1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-001
RUN 01
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 32 C
BAR PRESS = .741 M HG
REL HUMID = 45 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	78	78	78	78	78	78	78	78	78	78	79	77	78	77	77	77	77	77	77
16	80	80	80	80	80	80	80	80	80	79	79	77	77	78	78	81	81	81	81
20	76	76	76	76	76	76	76	76	76	78	77	79	80	78	78	80	80	80	80
25	73	73	73	73	73	73	73	73	73	76	76	77	78	76	78	77	77	77	77
31.5	65	65	65	65	65	65	65	65	65	68	70	70	74	73	75	75	75	75	75
40	65	65	65	65	65	65	65	65	65	67	65	67	69	70	73	72	72	72	72
50	61	61	61	61	61	61	61	61	61	63	62	63	64	66	69	70	70	70	70
63	58	58	58	58	58	58	58	58	59	60	60	60	63	61	59	62	62	62	62
80	57	57	57	57	57	57	57	57	57	58	56	57	58	57	56	56	56	56	56
100	55	55	55	55	55	55	55	55	55	56	55	56	55	55	53	53	53	53	53
125	51	51	51	51	51	51	51	51	51	55	57	65	56	54	54	54	54	54	54
160	46	46	46	46	46	46	46	46	46	48	47	56	49	49	49	48	48	48	48
200	42	42	42	42	42	42	42	42	42	45	44	48	46	49	50	45	45	45	45
250	40	40	40	40	40	40	40	40	40	42	41	51	45	46	49	44	44	44	44
315	34	34	34	34	34	34	34	34	34	37	36	47	40	38	40	40	40	40	40
400	32	32	32	32	32	32	32	32	32	34	36	41	41	35	36	38	38	38	38
500	32	32	32	32	32	32	32	32	32	34	35	35	38	35	40	38	38	38	38
630	34	34	34	34	34	34	34	34	34	34	35	35	37	34	39	38	38	38	38
800	35	35	35	35	35	35	35	35	35	35	34	37	35	35	43	37	37	37	37
1000	37	37	37	37	37	37	37	37	37	34	35	36	35	36	39	40	40	40	40
1250	36	36	36	36	36	36	36	36	36	34	33	34	33	35	38	39	39	39	39
1600	36	36	36	36	36	36	36	36	36	34	31	34	35	37	40	38	38	38	38
2000	41	41	41	41	41	41	41	41	41	38	41	46	39	39	39	38	38	38	38
2500	36	36	36	36	36	36	36	36	36	33	32	34	33	33	35	34	34	34	34
3150	37	37	37	37	37	37	37	37	37	31	29	31	32	33	34	34	34	34	34
4000	41	41	41	41	41	41	41	41	41	34	30	32	37	32	40	33	33	33	33
5000	35	35	35	35	35	35	35	35	35	28	27	28	33	31	39	32	32	32	32
6300	38	38	38	38	38	38	38	38	38	29	27	27	32	29	37	30	30	30	30
8000	36	36	36	36	36	36	36	36	36	29	28	28	27	31	34	29	29	29	29
10000	38	38	38	38	38	38	38	38	38	30	35	27	26	37	35	33	33	33	33
OVERALL	84	84	84	84	84	84	84	84	84	84	84	84	85	84	85	86	86	86	86

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 13.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-081
RUN 02
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 32 C
BAR PRESS = .741 M HG
REL HUMID = 45 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	89	89	89	89	89	89	89	89	89	90	89	89	89	90	89	90	90	90	90
16	90	90	90	90	90	90	90	90	90	90	93	92	91	90	92	90	90	90	90
20	90	90	90	90	90	90	90	90	90	92	92	90	91	92	93	92	92	92	92
25	88	88	88	88	88	88	88	88	89	90	91	90	93	93	93	93	93	93	93
31.5	80	80	80	80	80	80	80	80	80	84	86	86	89	89	91	91	91	91	91
40	77	77	77	77	77	77	77	77	77	79	81	82	86	86	90	90	90	90	90
50	75	75	75	75	75	75	75	75	75	76	74	74	78	82	86	88	88	88	88
63	71	71	71	71	71	71	71	71	71	74	75	76	73	74	77	81	81	81	81
80	70	70	70	70	70	70	70	70	70	73	70	71	75	73	74	74	74	74	74
100	67	67	67	67	67	67	67	67	67	68	69	68	71	70	70	70	70	70	70
125	65	65	65	65	65	65	65	65	65	65	66	66	65	67	69	70	70	70	70
160	60	60	60	60	60	60	60	60	60	62	64	65	66	68	66	64	64	64	64
200	58	58	58	58	58	58	58	58	58	60	63	61	65	70	64	61	61	61	61
250	56	56	56	56	56	56	56	56	56	56	60	59	63	67	63	62	62	62	62
315	55	55	55	55	55	55	55	55	55	48	52	55	56	57	55	57	57	57	57
400	51	51	51	51	51	51	51	51	51	49	50	52	54	52	56	56	56	56	56
500	55	55	55	55	55	55	55	55	55	53	55	53	54	53	55	57	57	57	57
630	56	56	56	56	56	56	56	56	56	54	52	54	55	53	56	58	58	58	58
800	52	52	52	52	52	52	52	52	52	52	51	52	53	53	55	59	59	59	59
1000	52	52	52	52	52	52	52	52	52	50	51	51	52	55	55	59	59	59	59
1250	51	51	51	51	51	51	51	51	51	50	50	51	52	54	55	58	58	58	58
1600	49	49	49	49	49	49	49	49	49	48	52	50	52	55	55	55	55	55	55
2000	45	46	46	46	46	45	46	46	46	47	53	50	53	56	51	51	51	51	51
2500	44	44	44	44	44	44	44	44	44	45	50	48	52	50	47	49	49	49	49
3150	45	45	45	45	45	45	45	45	45	44	47	48	49	47	47	48	48	48	48
4000	46	46	46	46	46	46	46	46	46	45	46	46	46	46	47	47	47	47	47
5000	44	44	44	44	44	44	44	44	44	43	42	45	49	44	45	45	45	45	45
6300	43	43	43	43	43	43	43	43	43	42	41	42	44	42	44	43	43	43	43
8000	42	42	42	42	42	42	42	42	42	41	41	51	40	41	43	43	43	43	43
10000	39	39	39	39	39	39	39	39	39	38	38	52	37	39	41	41	41	41	41
OVERALL	96	96	96	96	95	96	96	96	96	97	[illegible]	97	98	96	99	99	99	99	99

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 13.2

MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-001
RUN 03
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 32 C
BAR PRESS = .741 M HG
REL HUMID = 45 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	94	94	94	94	94	94	94	94	94	94	94	95	96	95	97	96	96	96	96
16	96	96	96	96	96	96	96	96	95	96	96	98	98	97	98	99	99	99	99
20	97	97	97	97	97	97	97	97	97	99	99	98	97	96	99	101	101	101	101
25	96	96	96	96	96	96	96	96	96	98	98	99	100	99	100	100	100	100	100
31.5	93	93	93	93	93	93	93	93	93	96	96	96	93	98	98	100	100	100	100
40	90	90	90	90	90	90	90	90	90	93	93	94	93	96	99	101	101	101	101
50	85	85	85	85	85	85	85	85	85	85	85	87	95	96	97	99	99	99	99
63	84	84	84	84	84	84	84	84	84	85	85	84	87	91	92	94	94	94	94
80	82	82	82	82	82	82	82	82	82	82	82	86	85	87	82	86	86	86	86
100	78	78	78	78	78	78	78	78	78	79	79	80	80	82	79	79	79	79	79
125	71	71	71	71	71	71	71	71	71	74	74	74	77	76	79	75	75	75	75
160	66	66	66	66	66	66	66	66	66	70	70	71	72	73	72	71	71	71	71
200	63	63	63	63	63	63	63	63	63	67	67	69	70	72	70	69	69	69	69
250	60	60	60	60	60	60	60	60	60	64	64	66	68	71	70	68	68	68	68
315	56	56	56	56	56	56	56	56	56	57	57	59	63	62	63	63	63	63	63
400	58	58	58	58	58	58	58	58	58	57	57	59	62	59	59	61	61	61	61
500	60	60	60	60	60	60	60	60	60	59	59	60	63	59	62	61	61	61	61
630	60	60	60	60	60	60	60	60	60	60	60	60	62	60	61	61	61	61	61
800	59	59	59	59	59	59	59	59	59	60	60	60	61	60	61	61	61	61	61
1000	57	57	57	57	57	57	57	57	57	58	58	59	61	61	62	61	61	61	61
1250	57	57	57	57	57	57	57	57	57	57	57	58	60	61	63	64	64	64	64
1600	55	55	55	55	55	55	55	55	55	55	55	56	59	62	63	62	62	62	62
2000	54	54	54	54	54	54	54	54	54	54	54	55	59	63	59	57	57	57	57
2500	51	51	51	51	51	51	51	51	51	52	52	53	56	56	53	53	53	53	53
3150	50	50	50	50	50	50	50	50	50	50	50	51	55	52	52	51	51	51	51
4000	50	50	50	50	50	50	50	50	50	50	50	50	51	50	50	51	51	51	51
5000	48	48	48	48	48	48	48	48	48	47	47	47	47	47	47	47	47	47	47
6300	46	46	46	46	46	46	46	46	46	46	46	45	45	46	46	46	46	46	46
8000	46	46	46	46	46	46	46	46	46	45	45	45	44	45	46	46	46	46	46
10000	43	43	43	43	43	43	43	43	43	42	42	42	42	43	44	44	44	44	44
OVERALL	103	103	103	103	103	103	103	103	103	104	104	105	105	106	107	108	108	108	108

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

FIGURE: NORMALIZED FARFIELD NOISE LEVELS

13.1

DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST 9F-717-001
RUN 01
26 OCT 81
PAGE 6

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

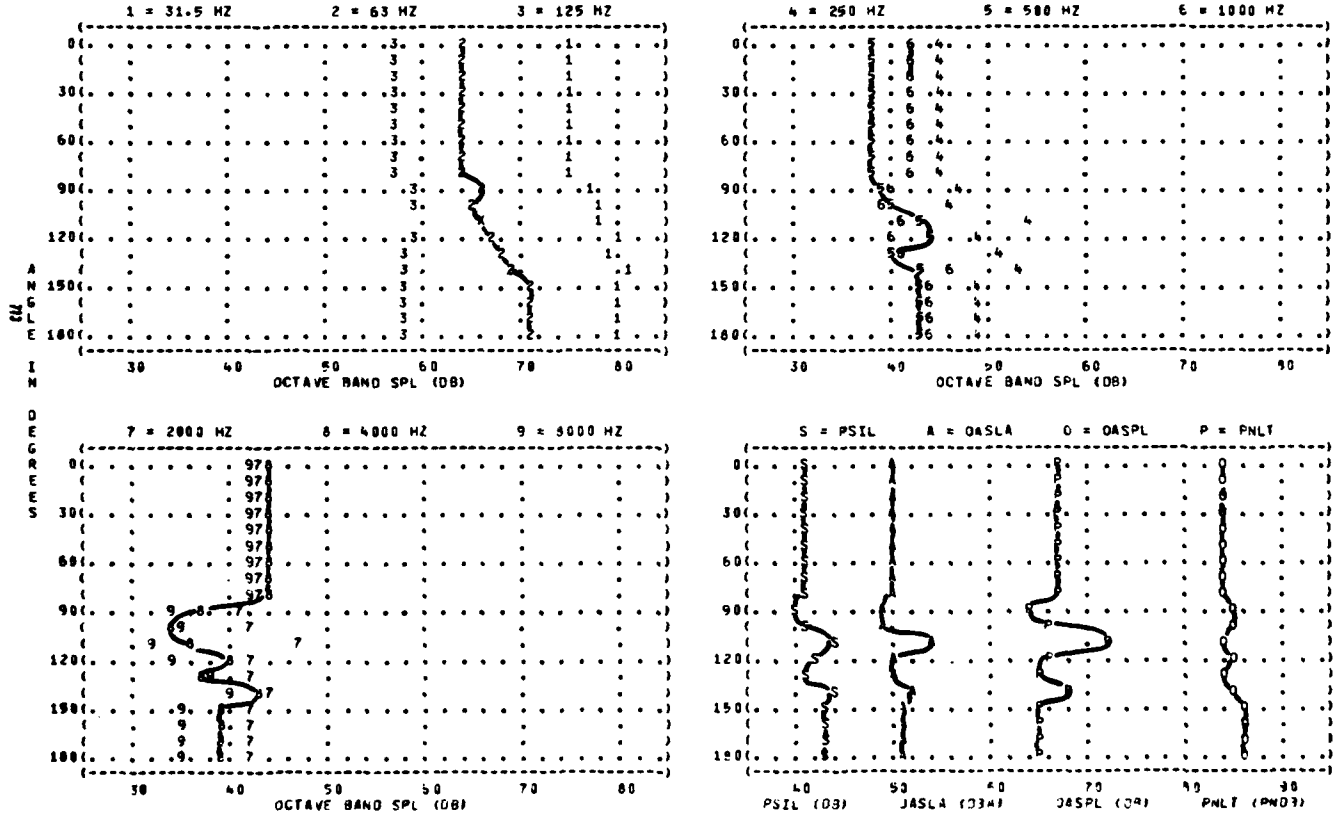


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

13.1

DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-001
RUN 02
26 OCT 81
PAGE 6

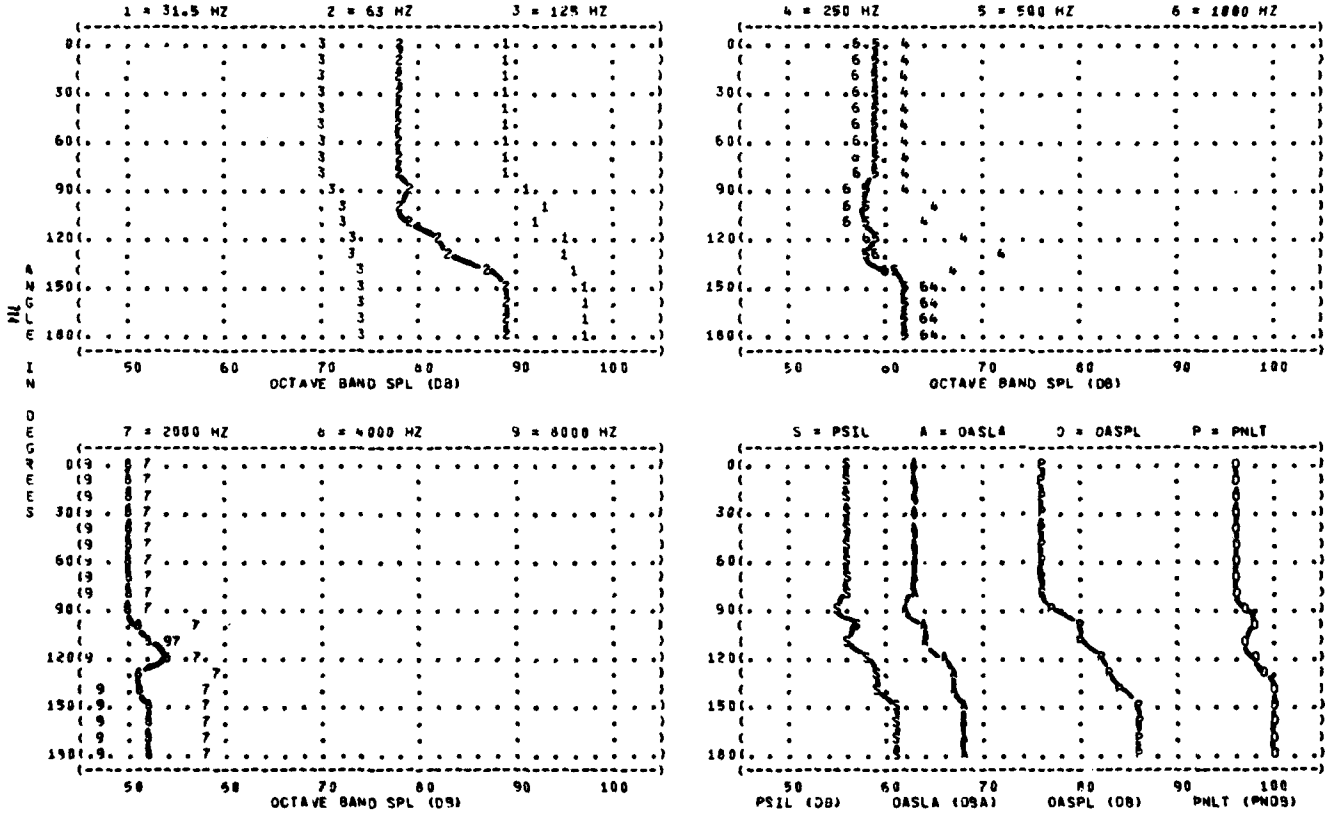


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

13.1

DISTANCE = 180 METERS

NOISE SOURCE/SUBJECT:
J79-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATIONS:
OMEGA 1.4
TEST AF-717-001
RUN 03
26 OCT 91
PAGE 6

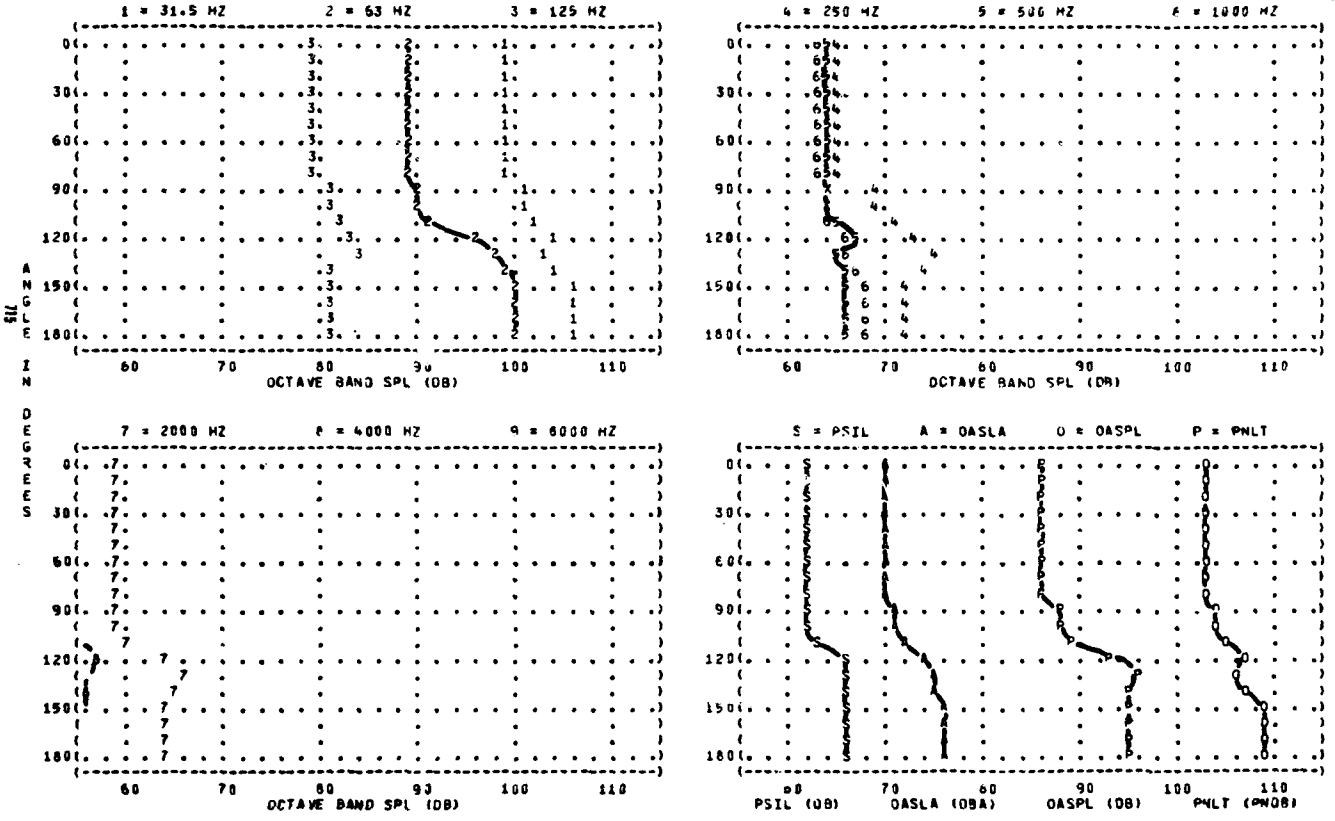


FIGURE: 13.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
J79-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST AF-717-001
RUN 01
26 OCT 81
PAGE 13

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

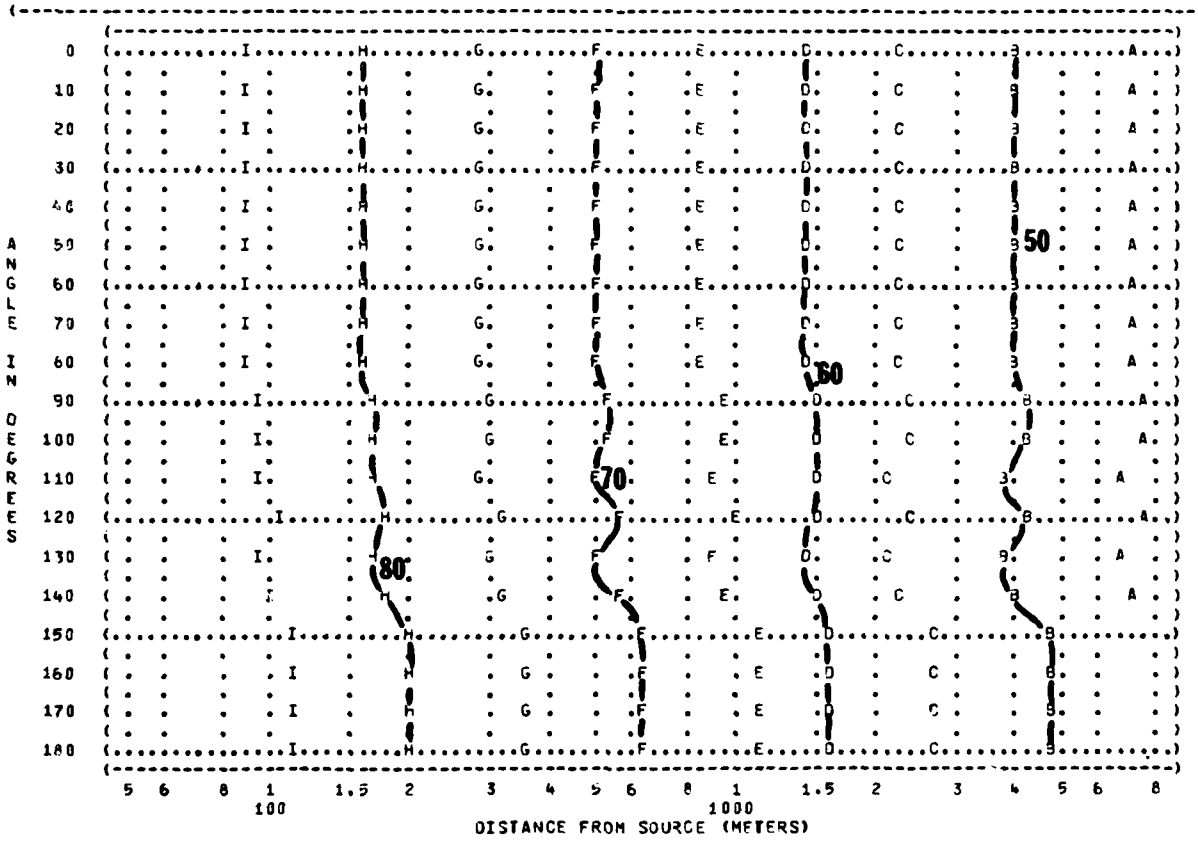


FIGURE: 13.2 OVERALL SOUND PRESSURE LEVEL (OASPL)
EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-001
RUN 02
26 OCT 81
PAGE 13

POINT	DB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95
I	100

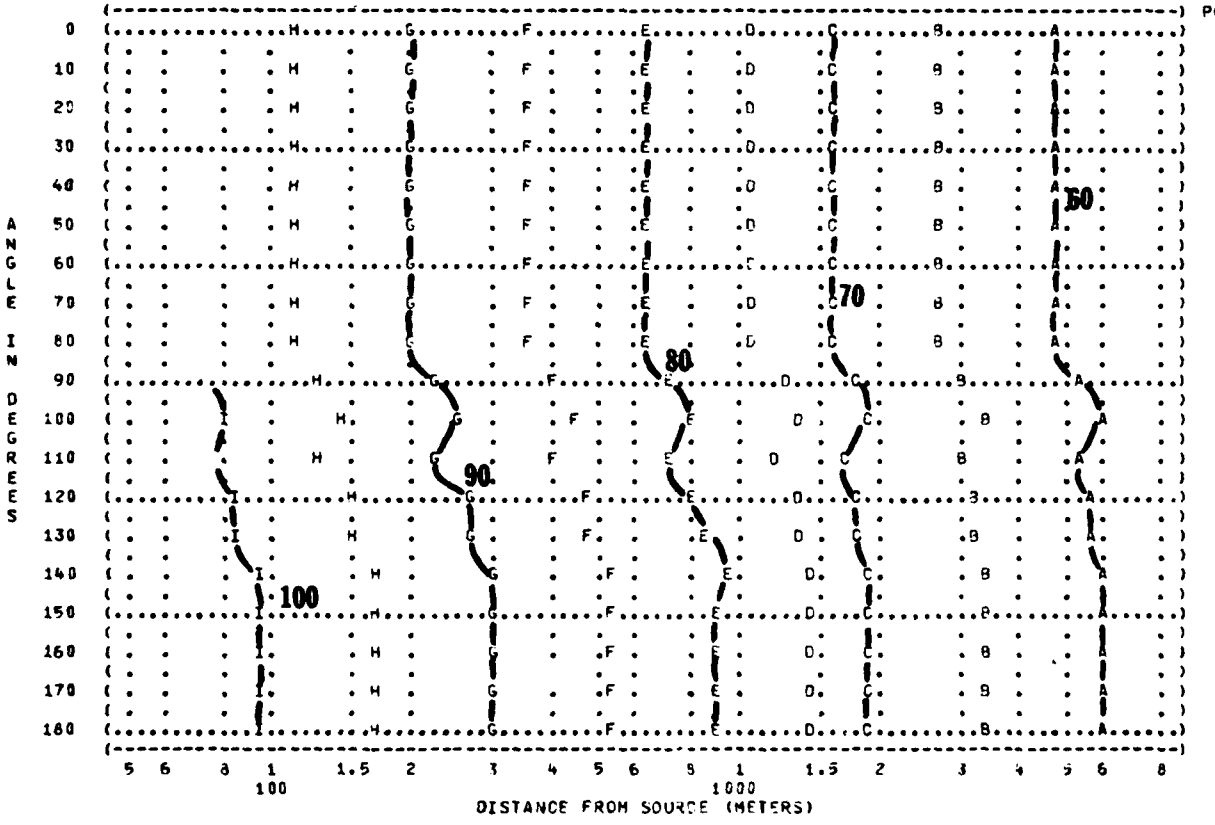


FIGURE: OVERALL SOUND PRESSURE LEVEL (OASPL)
13.2 EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-081
RUN 03
26 OCT 81
PAGE 13

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	65
B	70
C	75
D	80
E	85
F	90
G	95
H	100
I	105
J	110

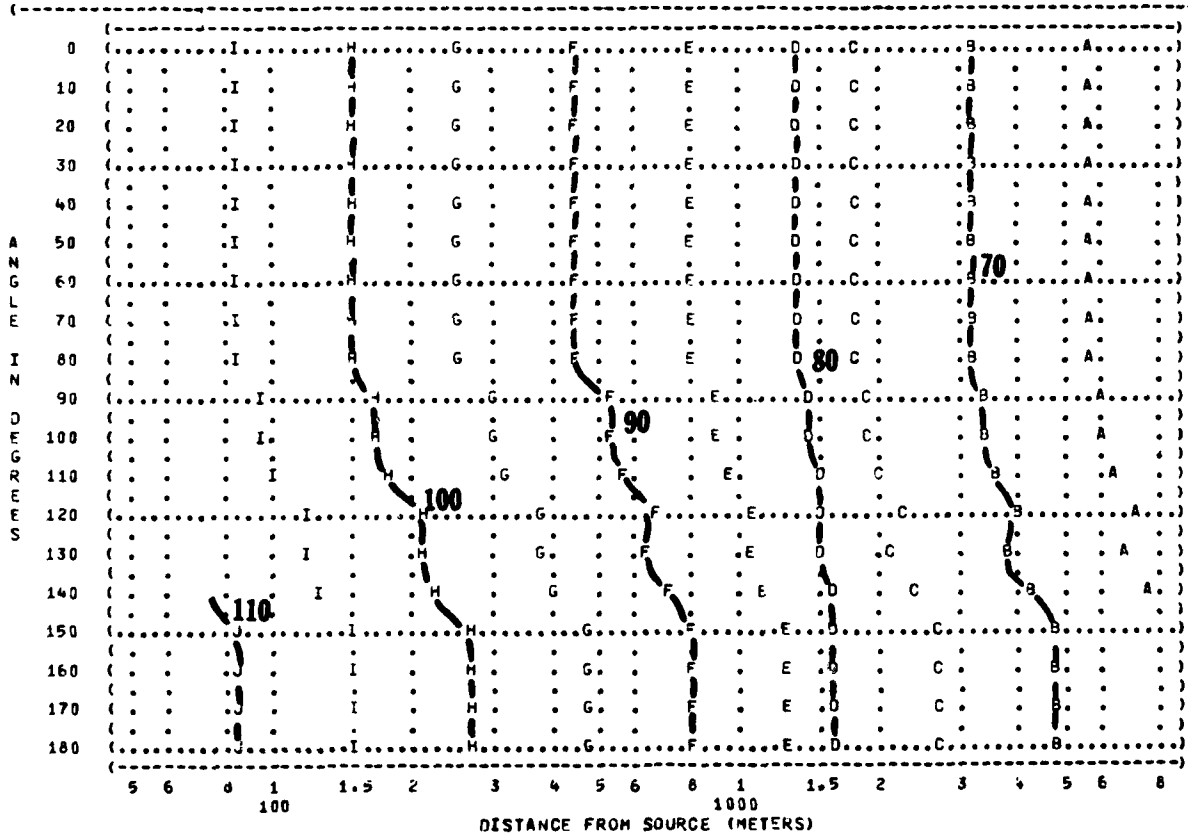


FIGURE: 13.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST AF-717-001
RUN 01
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

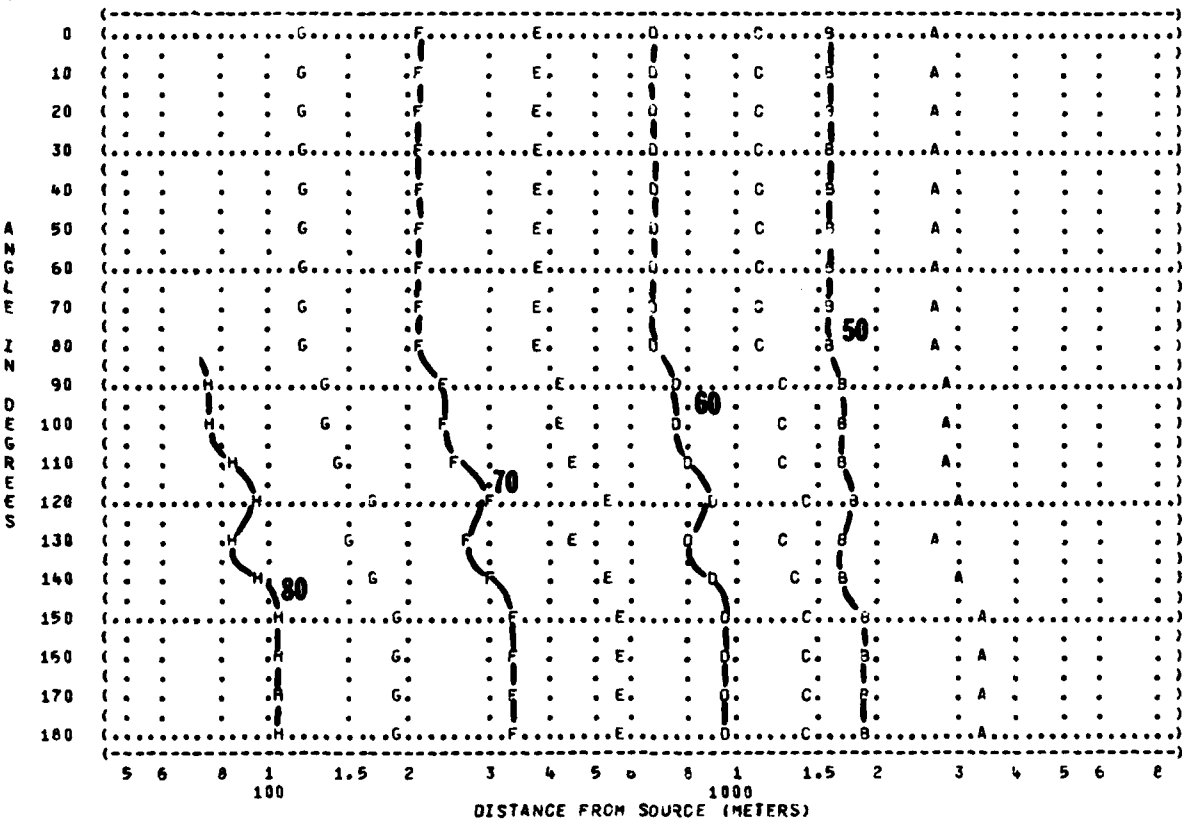


FIGURE: 13.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (OBC)

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 9F-717-001
RUN 02
26 OCT 81
PAGE 14

POINT	OBC
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90
J	95

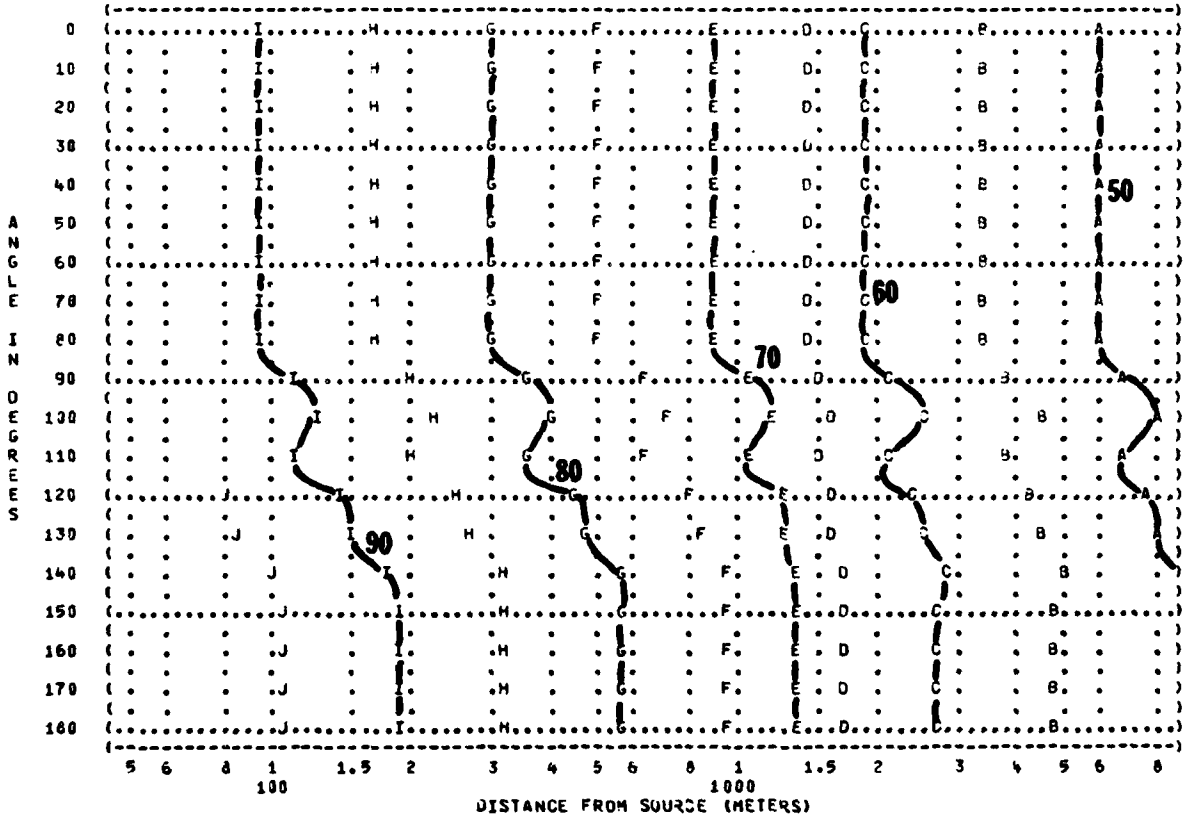


FIGURE: 13.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-717-001
RUN 03
26 OCT 81
PAGE 14

POINT	DBC
A	55
B	60
C	65
D	70
E	75
F	80
G	85
H	90
I	95
J	100
K	105

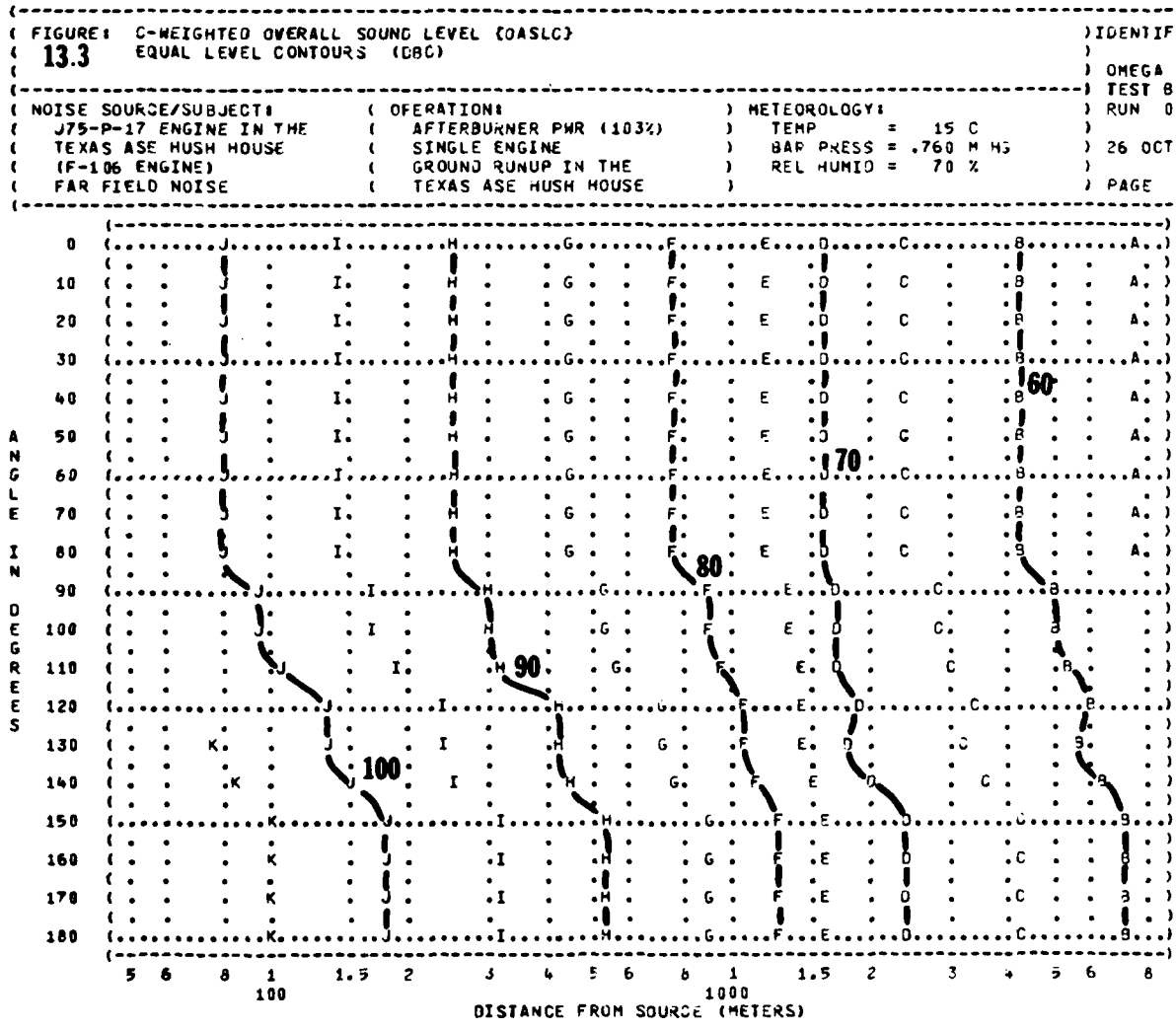


FIGURE 13.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (OBA)

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 01 26 OCT 81

POINT	OBA
A	45
B	50
C	55

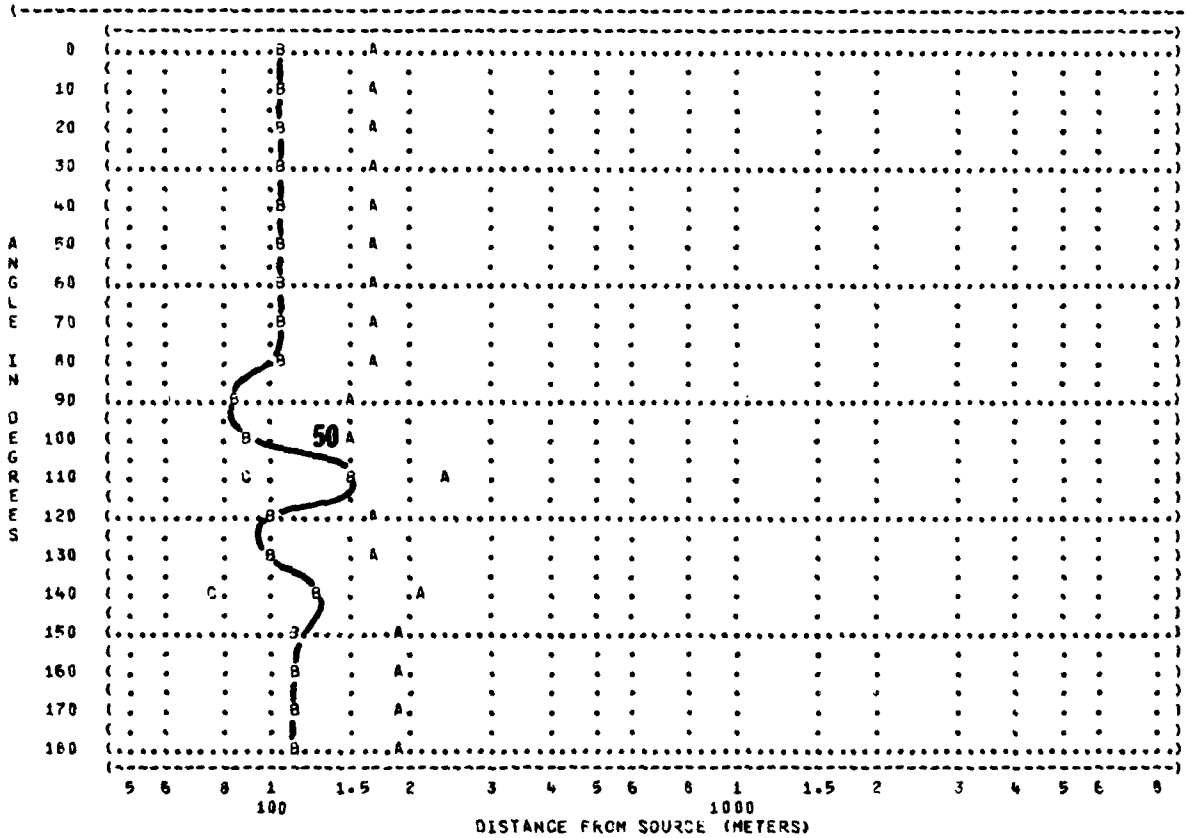


FIGURE: A-WEIGHTED OVERALL SOUND LEVEL (OASLA)
13.4 EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST 9F-717-001
RUN 02
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70

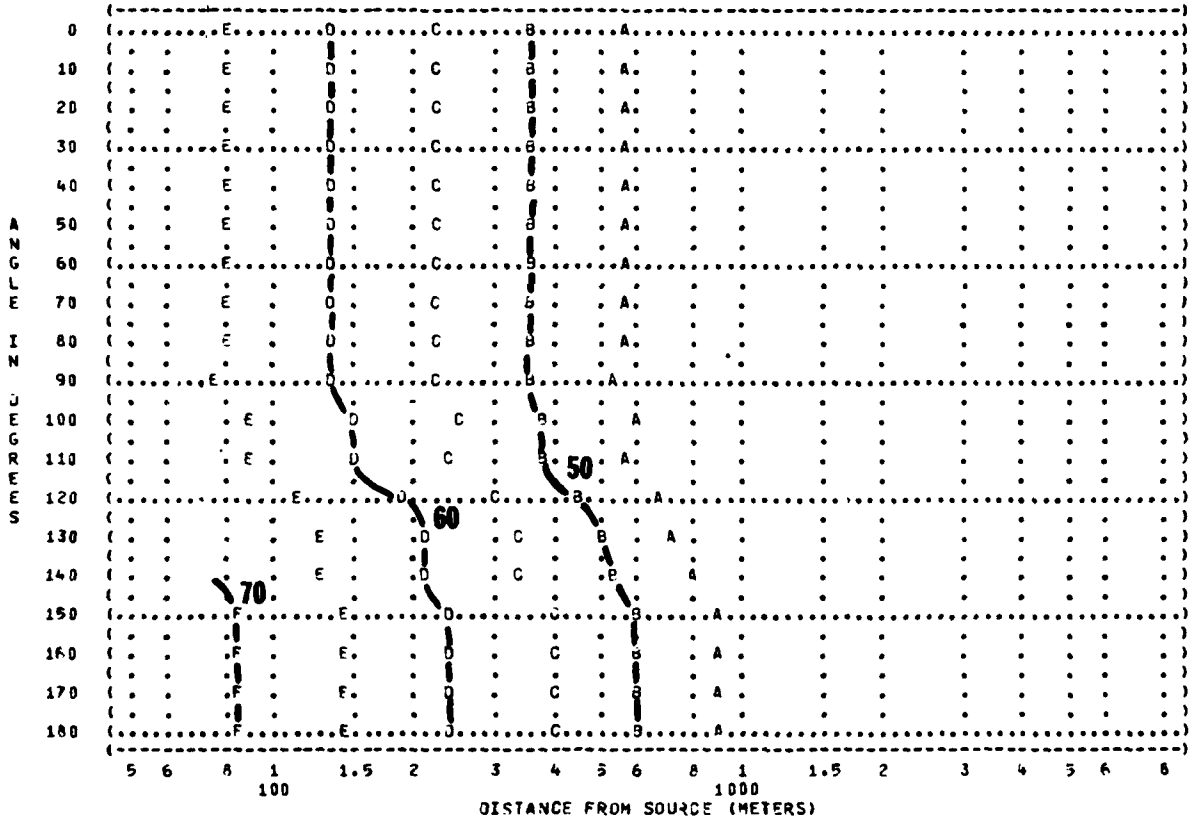


FIGURE: 13.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (EBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-001
RUN 03
26 OCT 91
PAGE 15

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-10b ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70
G	75

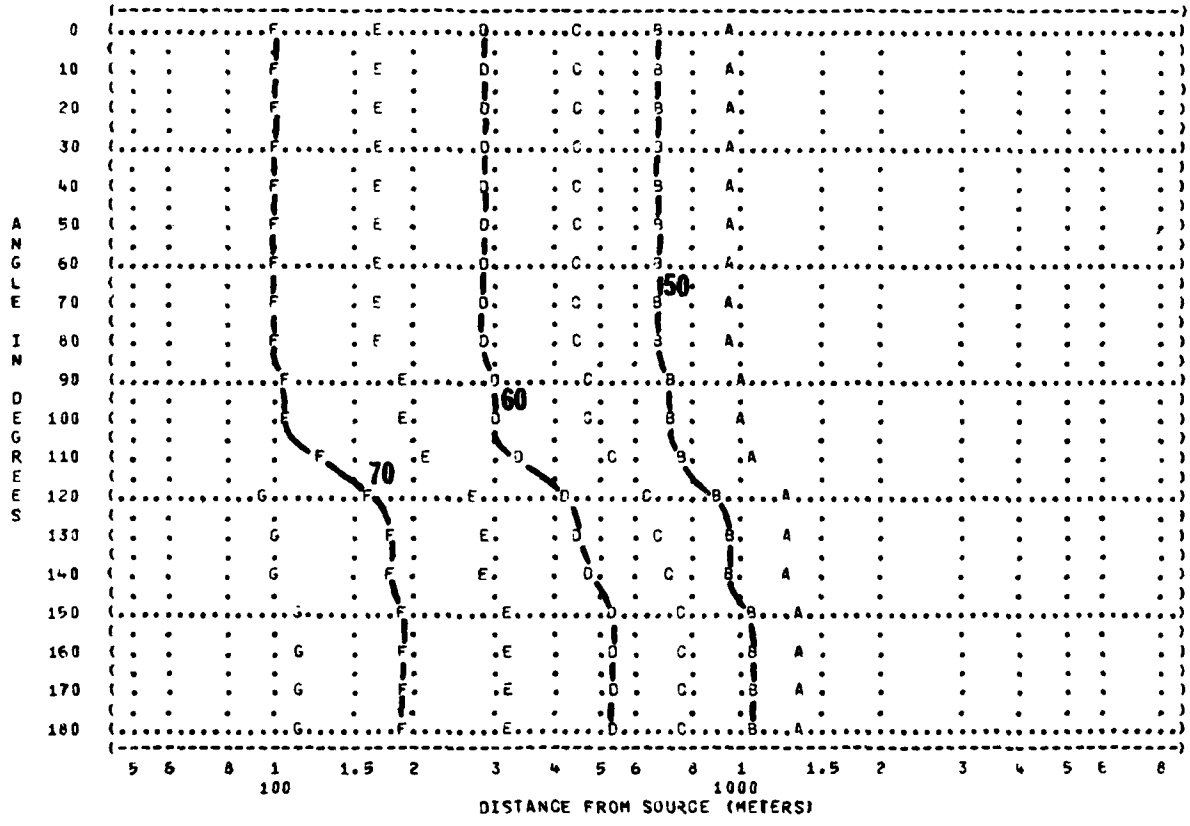


FIGURE: PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT)
13.5 EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-717-001
RUN 01
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70

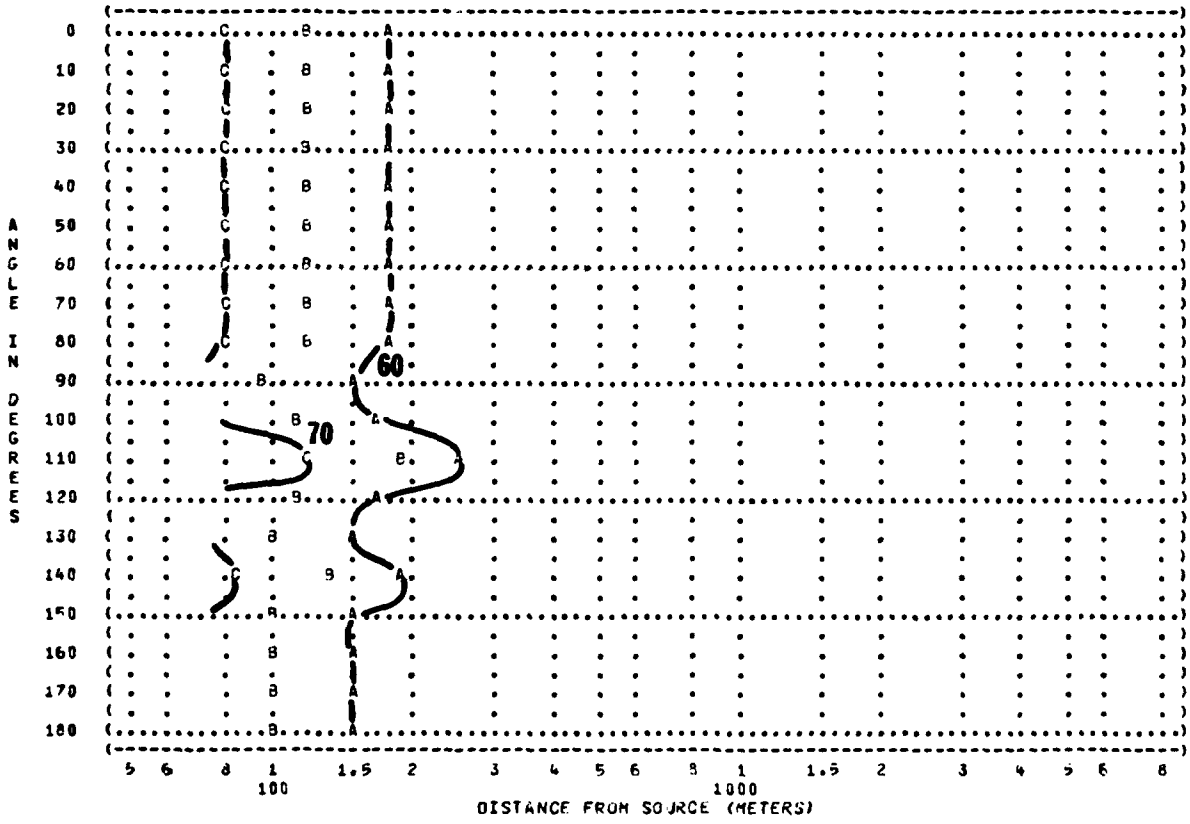


FIGURE: 13.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNOB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-001
RUN 02
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNOB
A	60
B	65
C	70
D	75
E	80
F	85

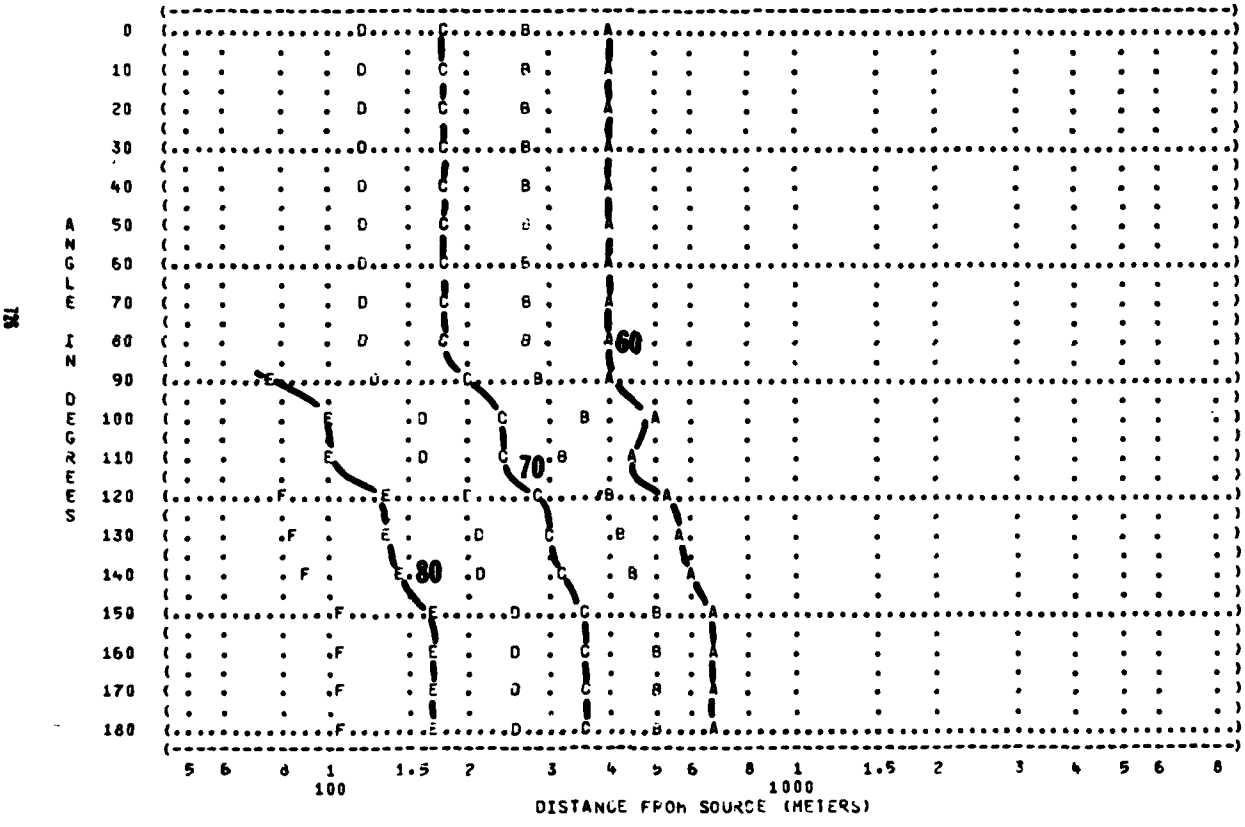


FIGURE 13.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 07 26 OCT 81 PAGE 15

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95

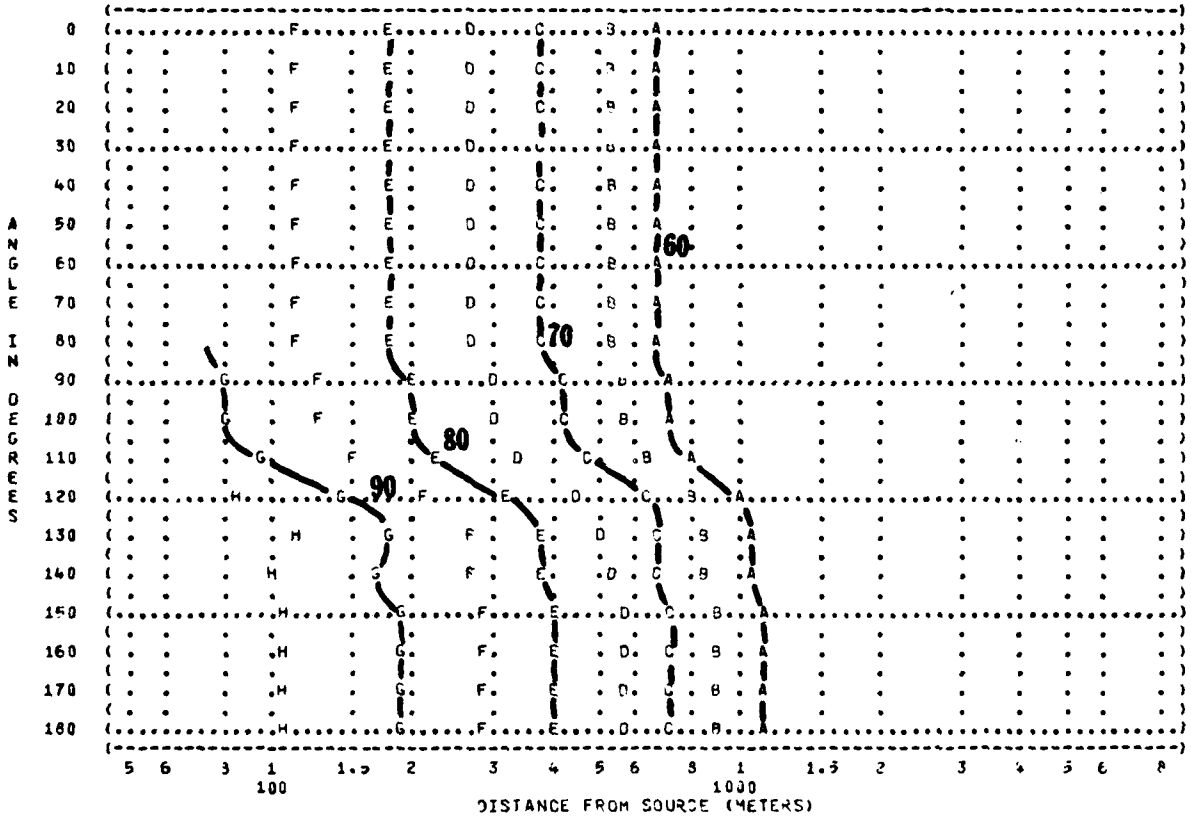


FIGURE: 13.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-10b ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 01 26 OCT 81 PAGE 17

POINT	DB
A	35
B	40
C	45

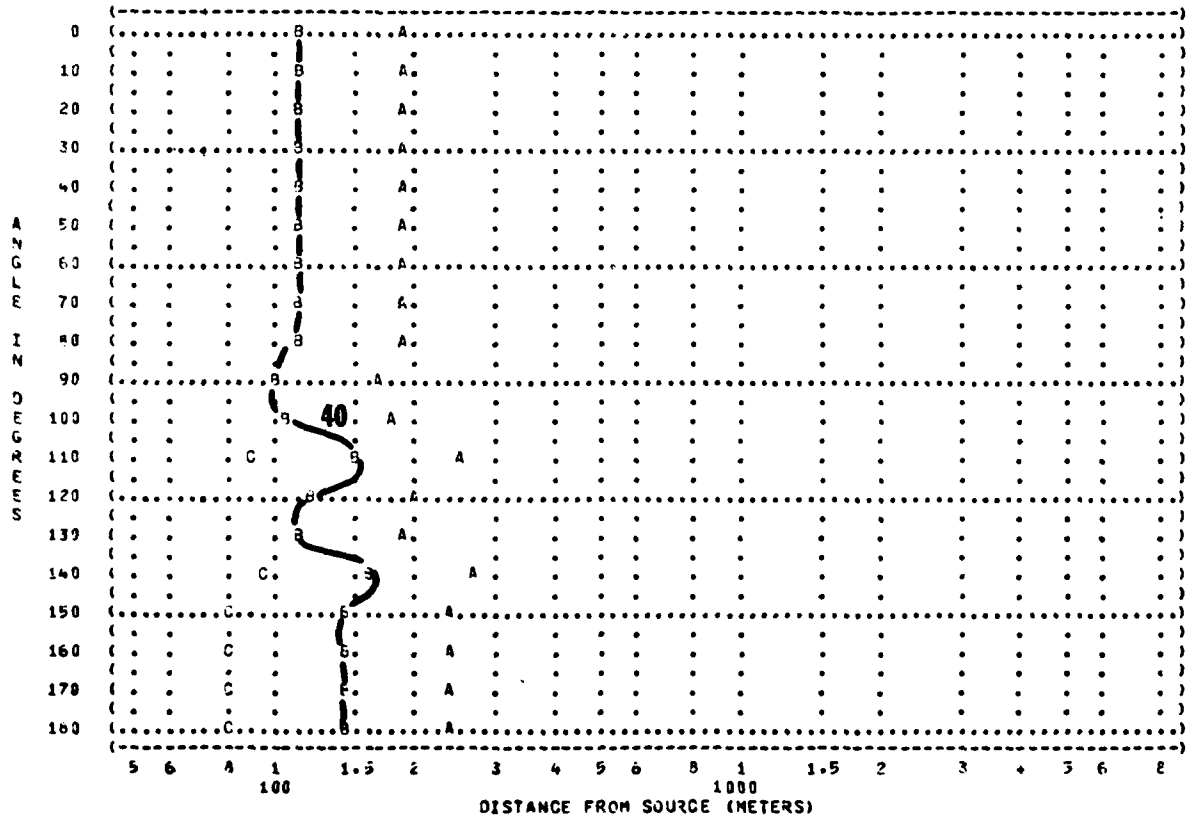


FIGURE: 13.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (C3)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-717-001
RUN 02
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

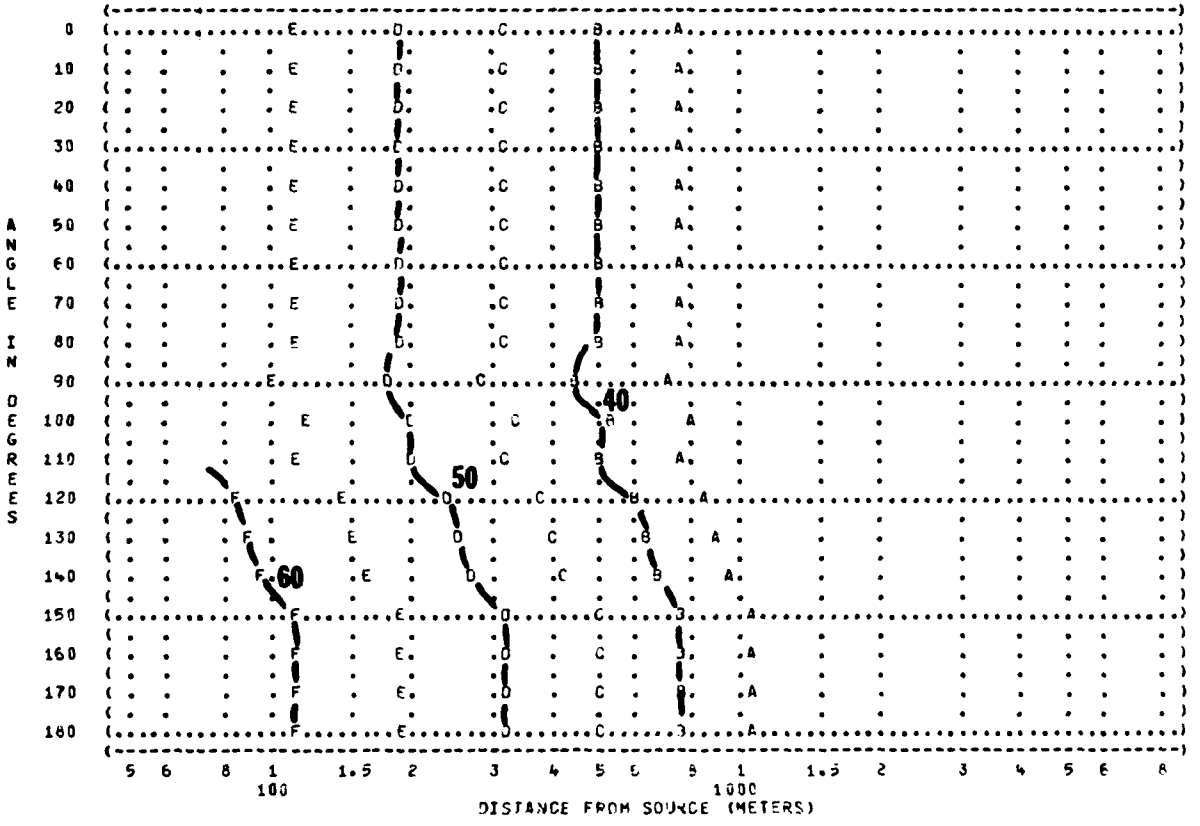


FIGURE: 13.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST AF-717-001 RUN 03 26 OCT 81 PAGE 17

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

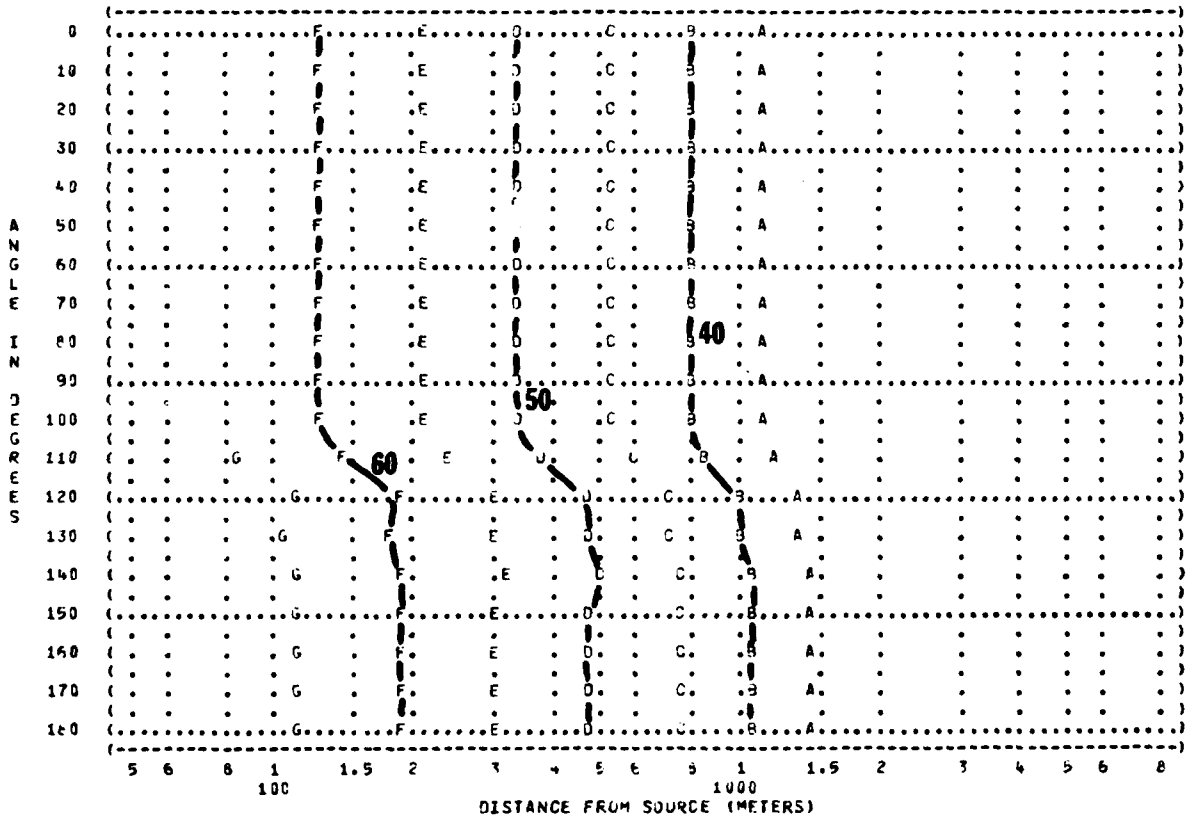


FIGURE: 13.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFP 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-031
RUN 01
26 OCT 81
PAGE *

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 73 %

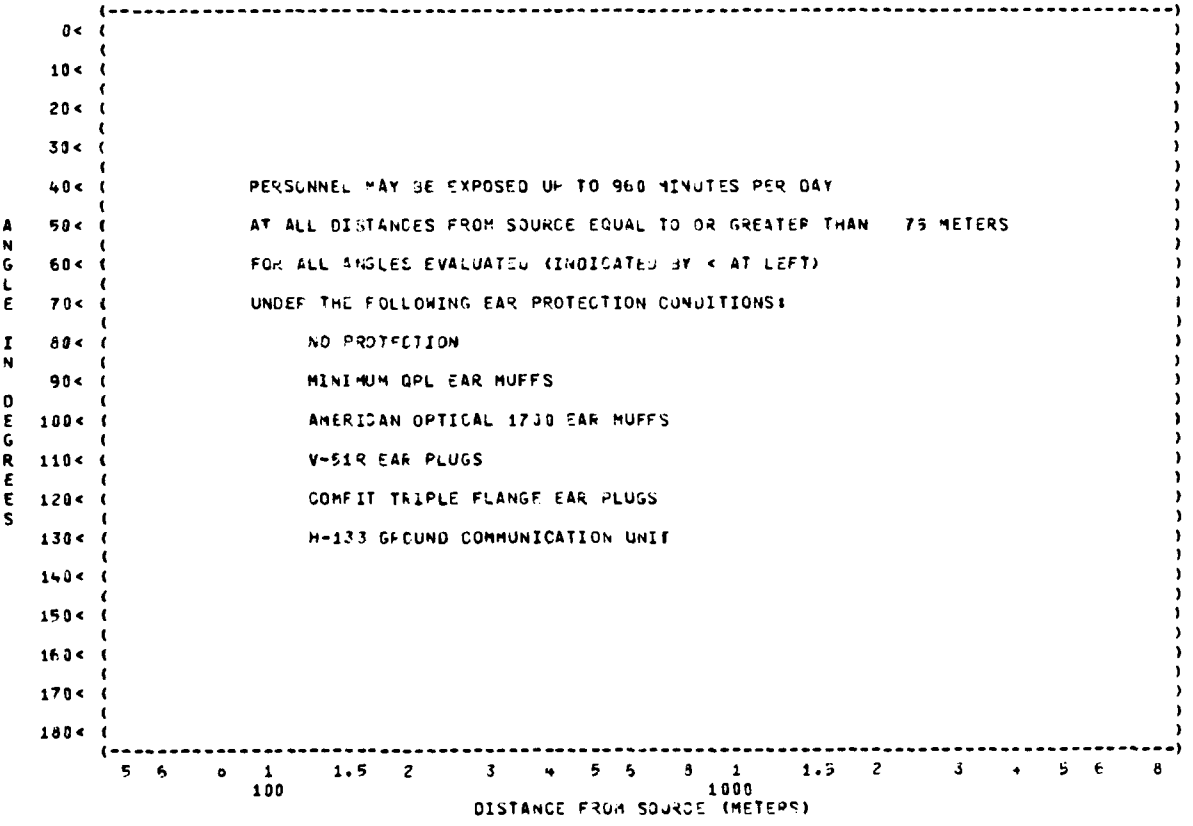


FIGURE 13.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 02 26 OCT 81 PAGE 7

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-10K ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

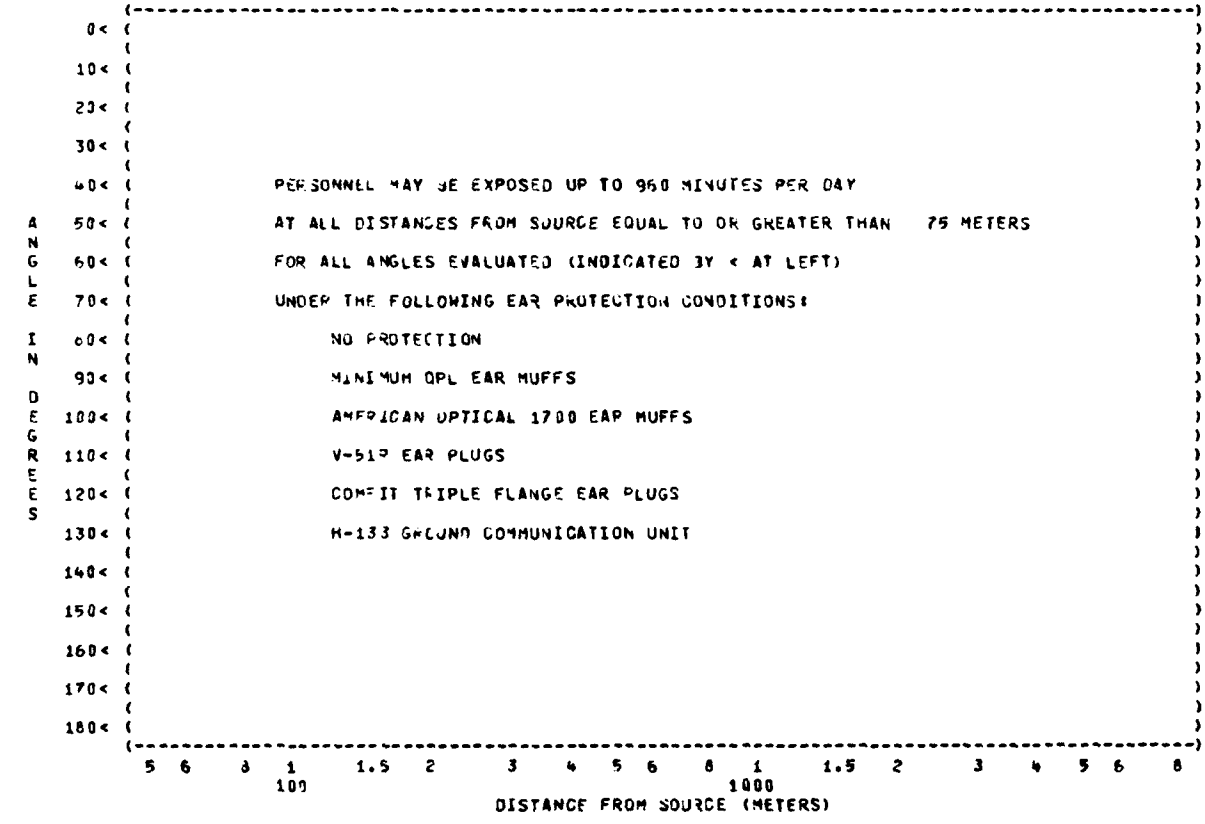


FIGURE 13.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST 9F-717-001
RUN 03
26 OCT 91
PAGE 7

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C, BAR PRESS = .760 M HG, REL HUMID = 70 %

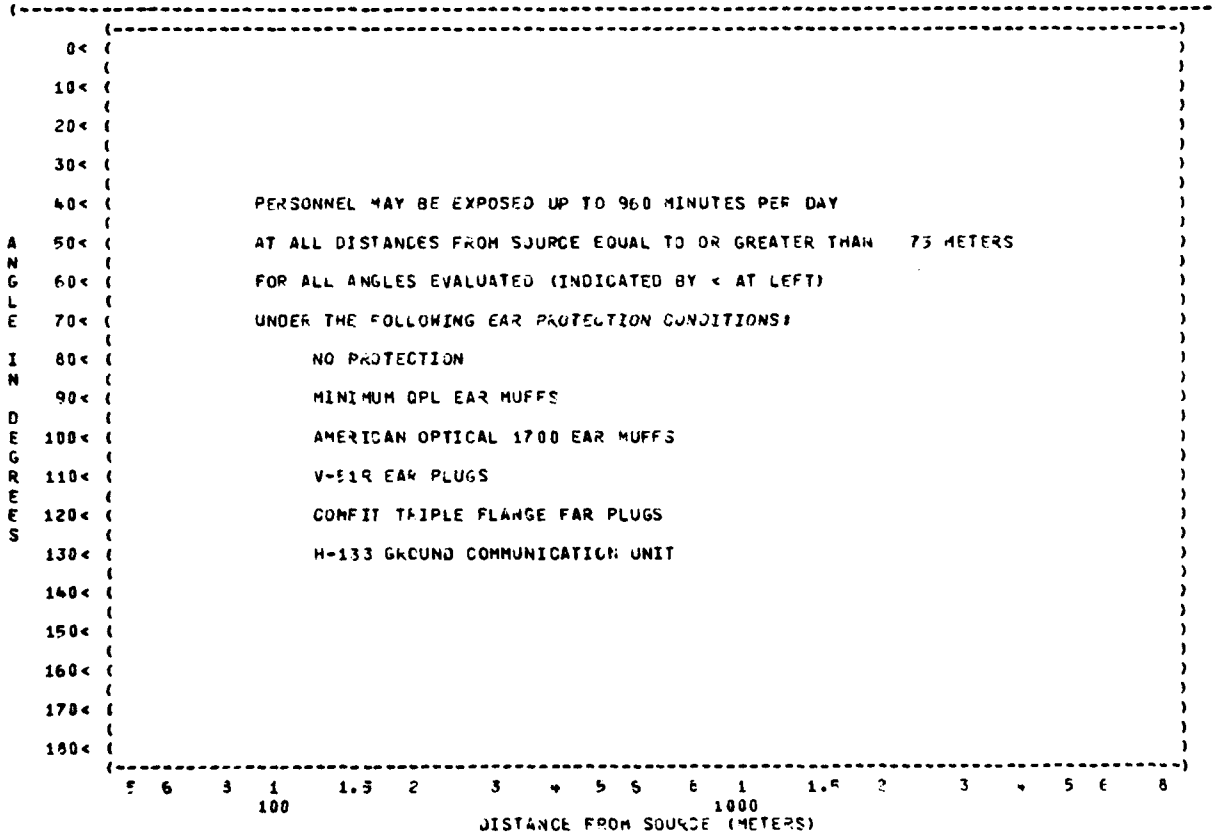


FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1/3 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 / TEST BF-717-001 / RUN 01 / 26 OCT 91 / PAGE 18

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-105 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C; BAR PRESS = .763 M HG; REL HUMID = 70 %

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

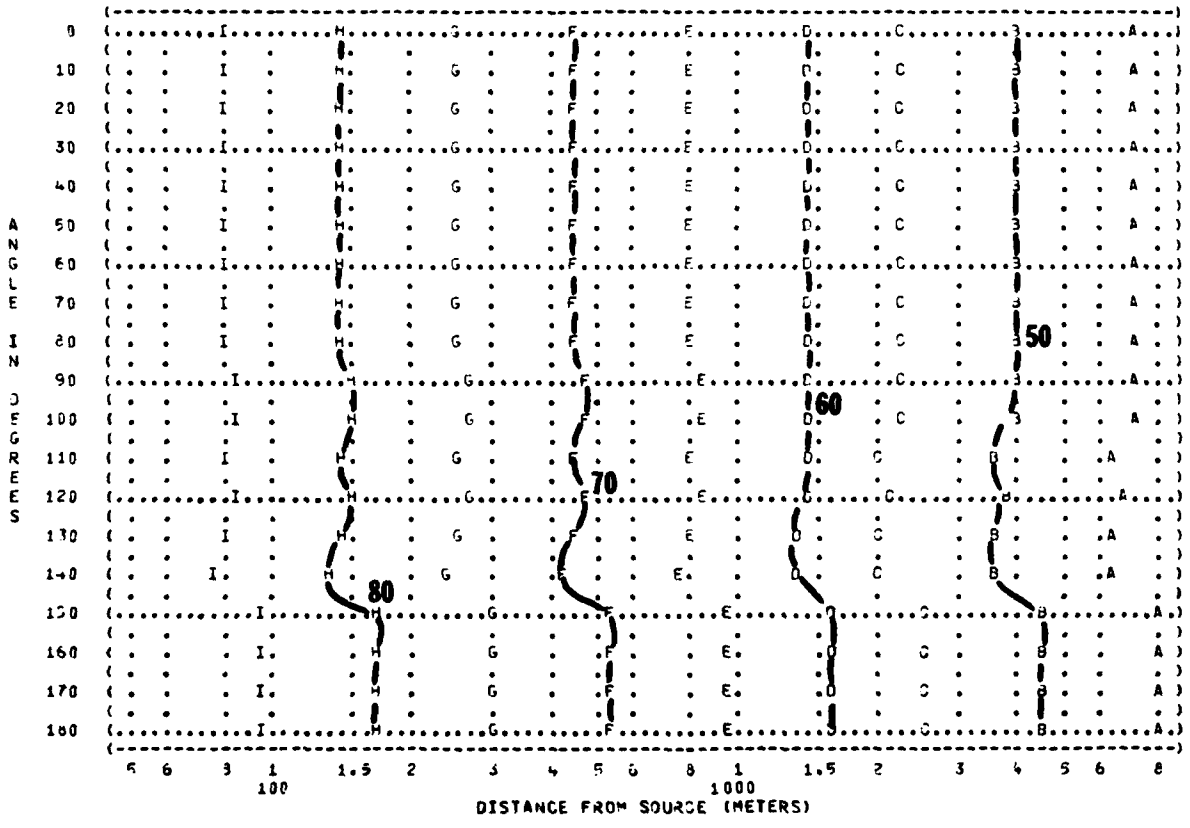


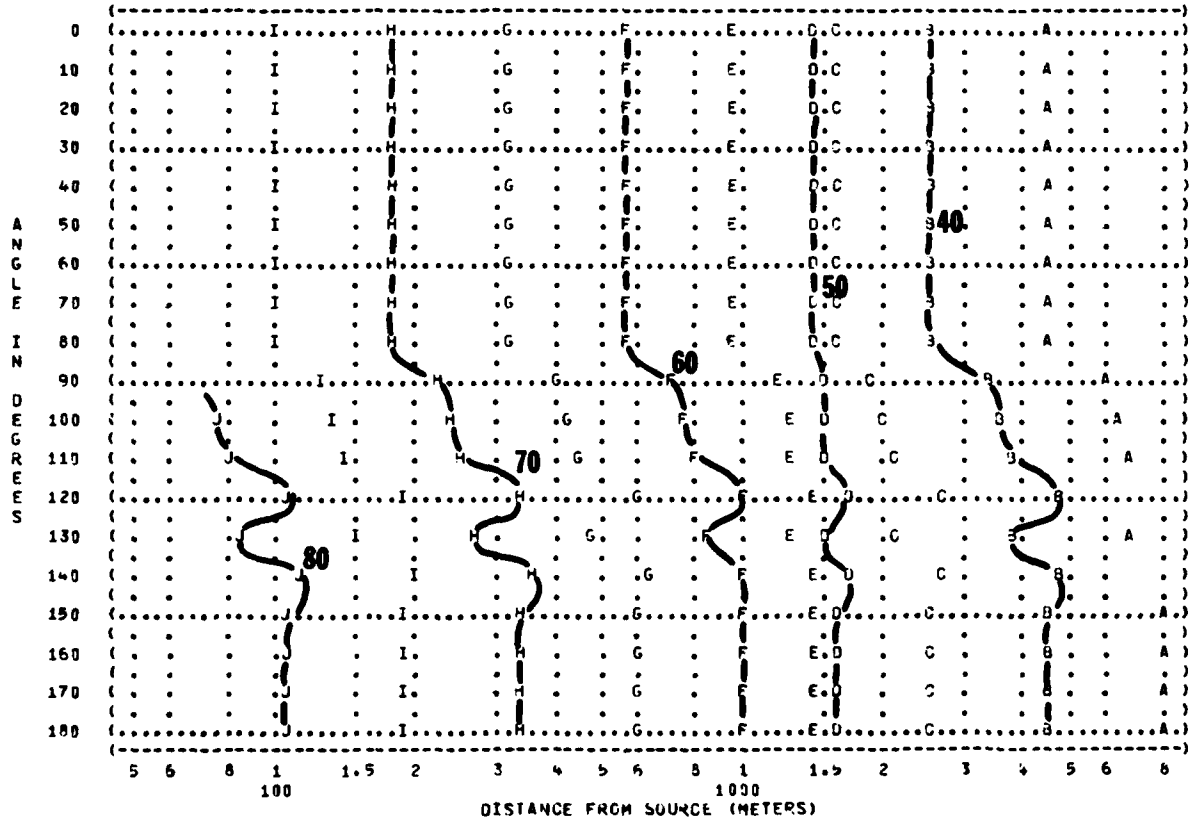
FIGURE: SOUND PRESSURE LEVEL (SPL)
13.8 EQUAL LEVEL CONTOURS (DB)
31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-105 ENGINE)
FAR FIELD NOISE

OPERATION:
30% RPM
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-C01
RUN 01
26 OCT 81
PAGE 19



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

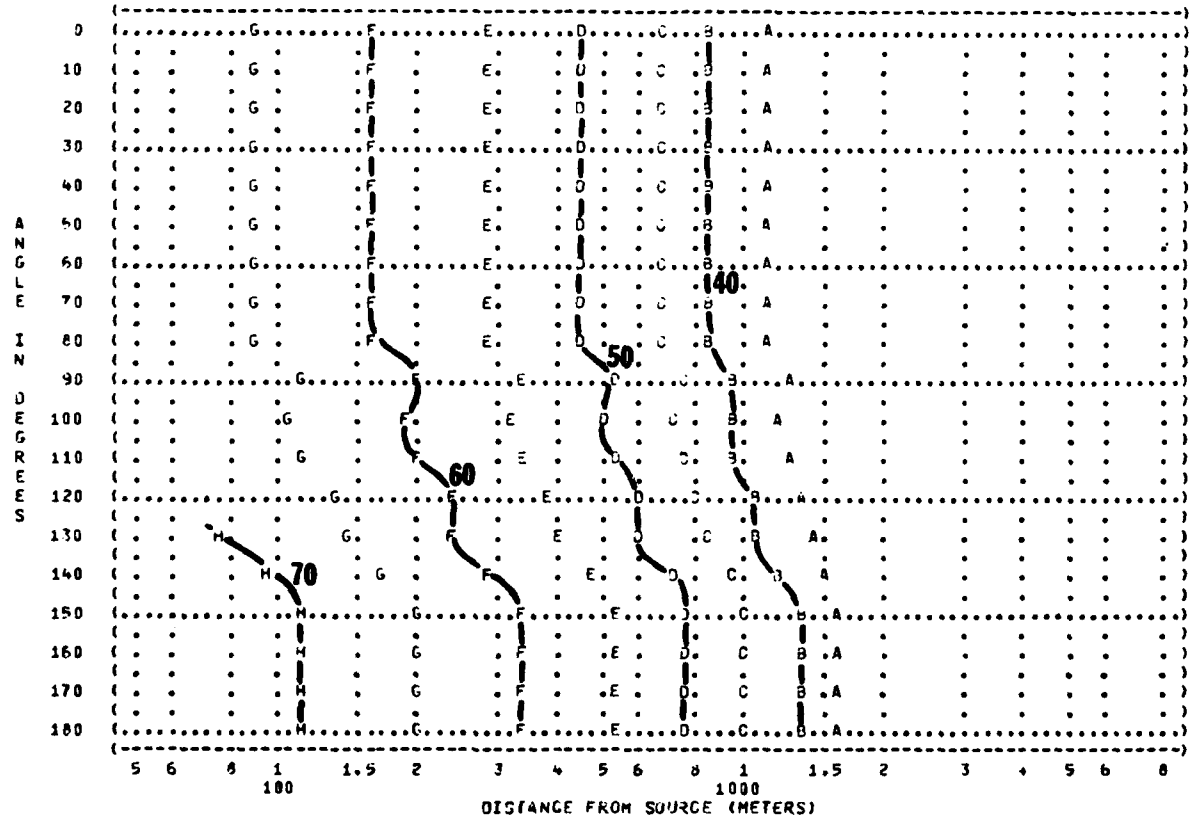
FIGURE: **13.8** SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST AF-717-001
RUN 01
26 OCT 81
PAGE 20



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE: 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 01 26 OCT 81 PAGE 21

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .750 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

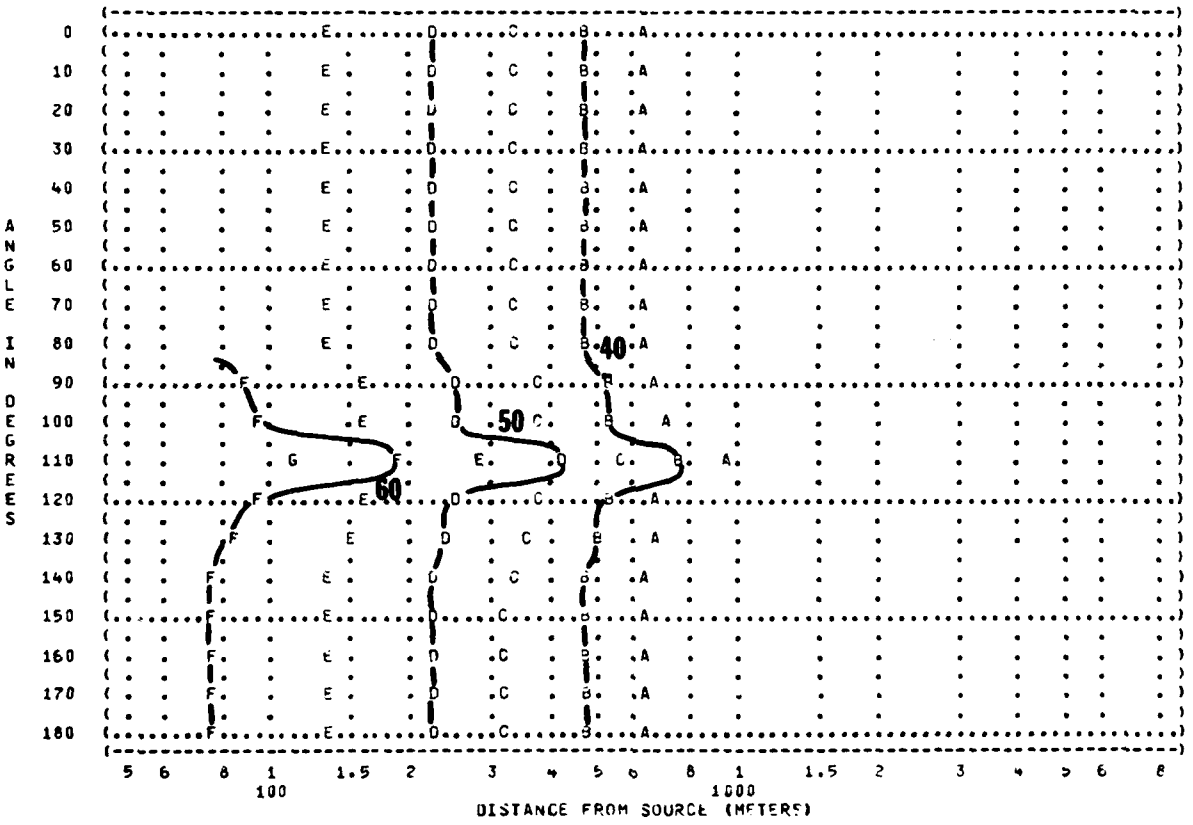


FIGURE: 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-001
RUN 01
26 OCT 81
PAGE 22

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

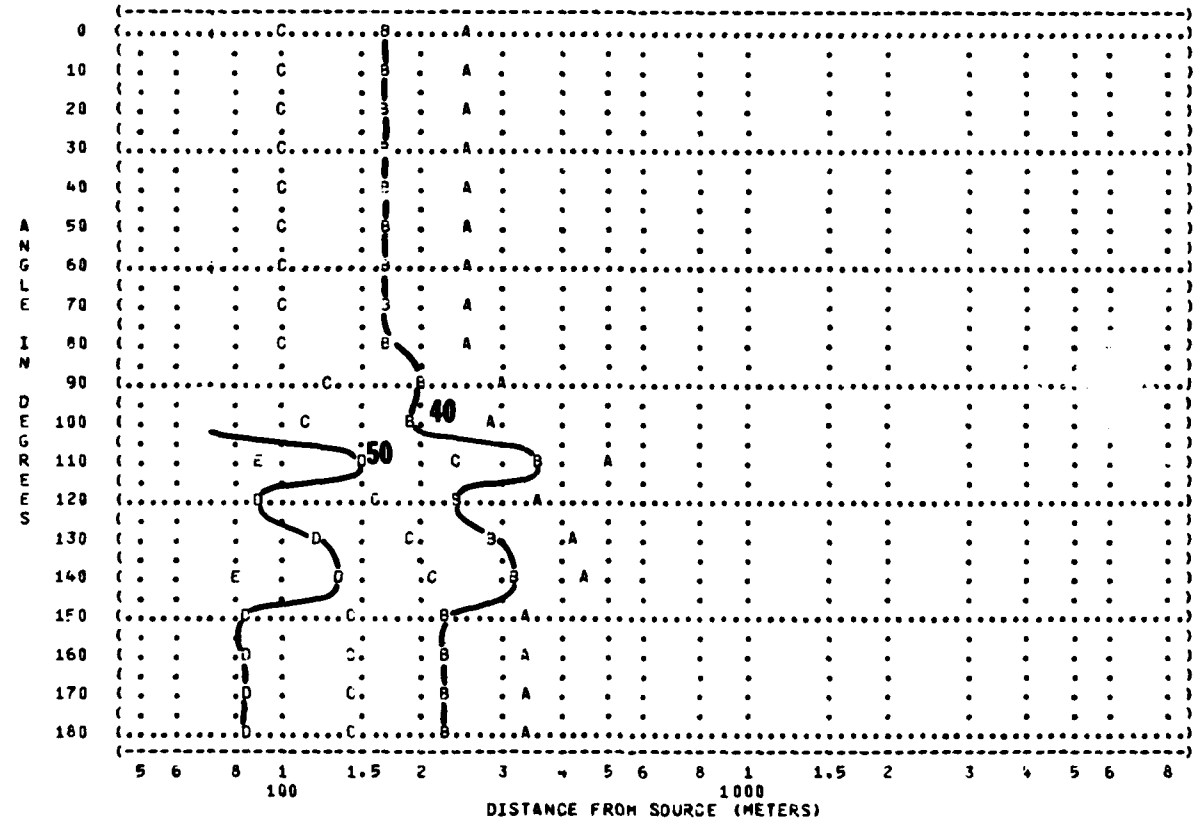


FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 01 26 OCT 81 PAGE 23

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45

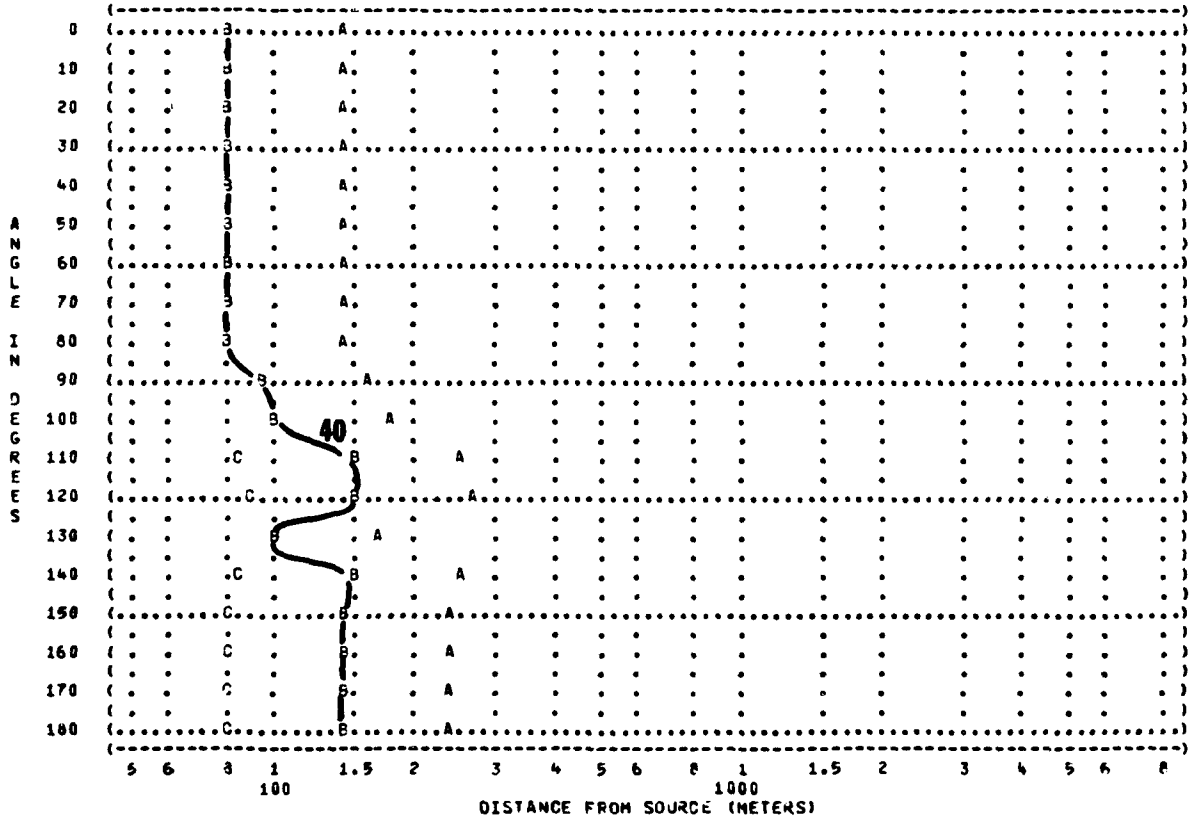


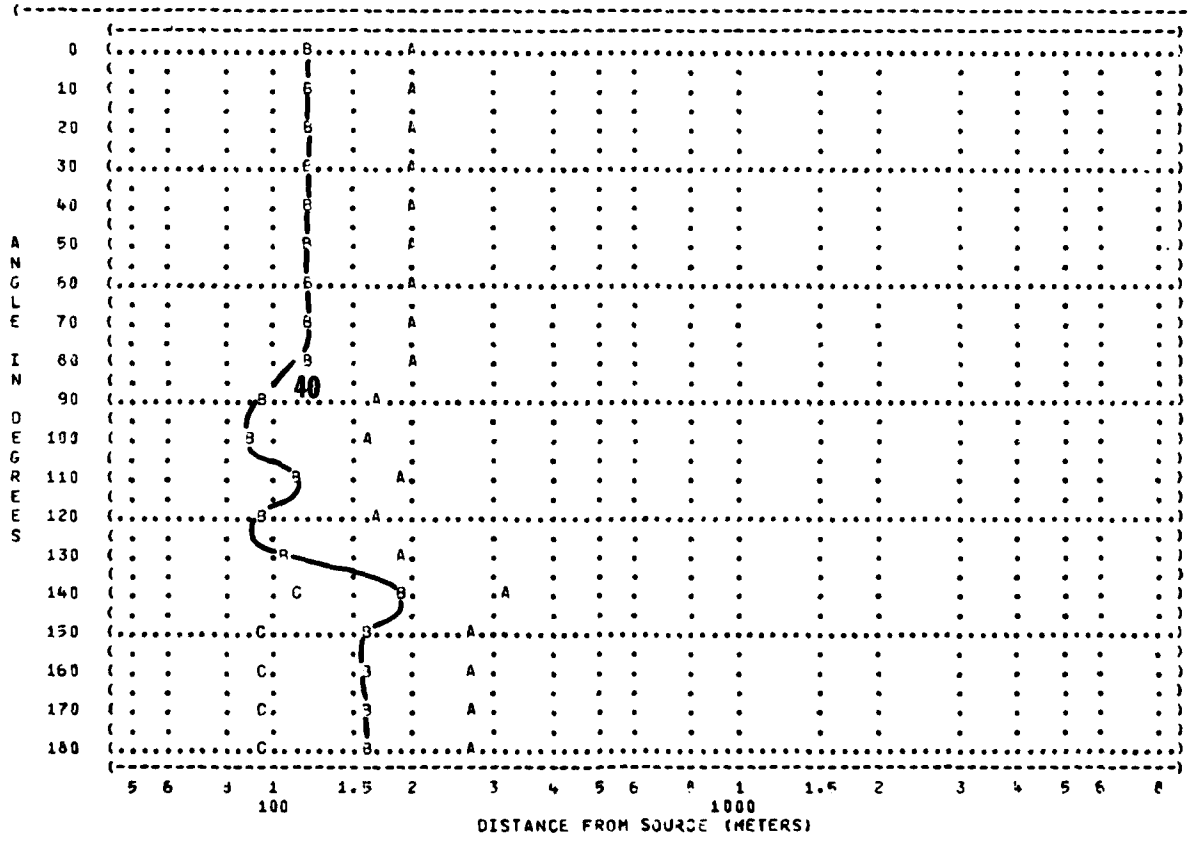
FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-10b ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 01 26 OCT 81



POINT	DB
A	35
B	40
C	45

FIGURE: 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 01 26 OCT 81 PAGE 25

POINT	DB
A	35
B	40
C	45

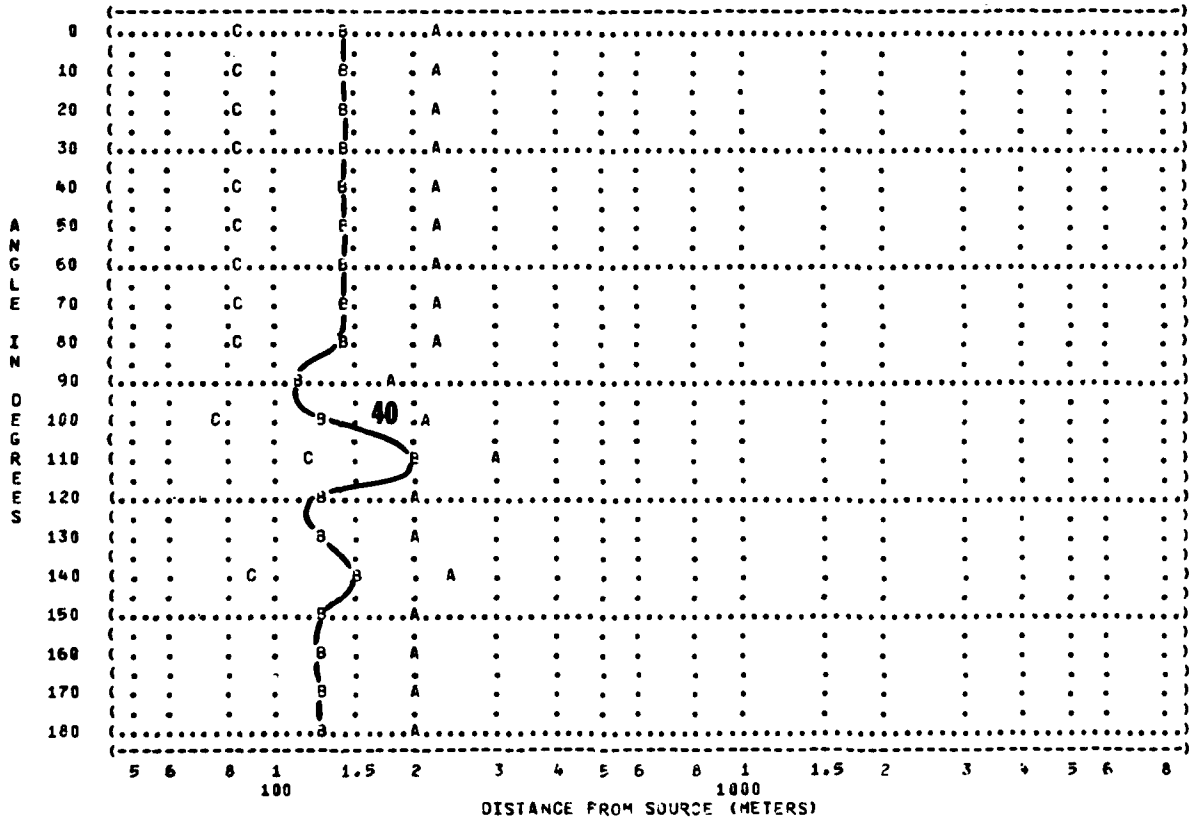


FIGURE: 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-717-081 RUN 01 26 OCT 81 PAGE 26

POINT	DB
A	35
B	40
C	45

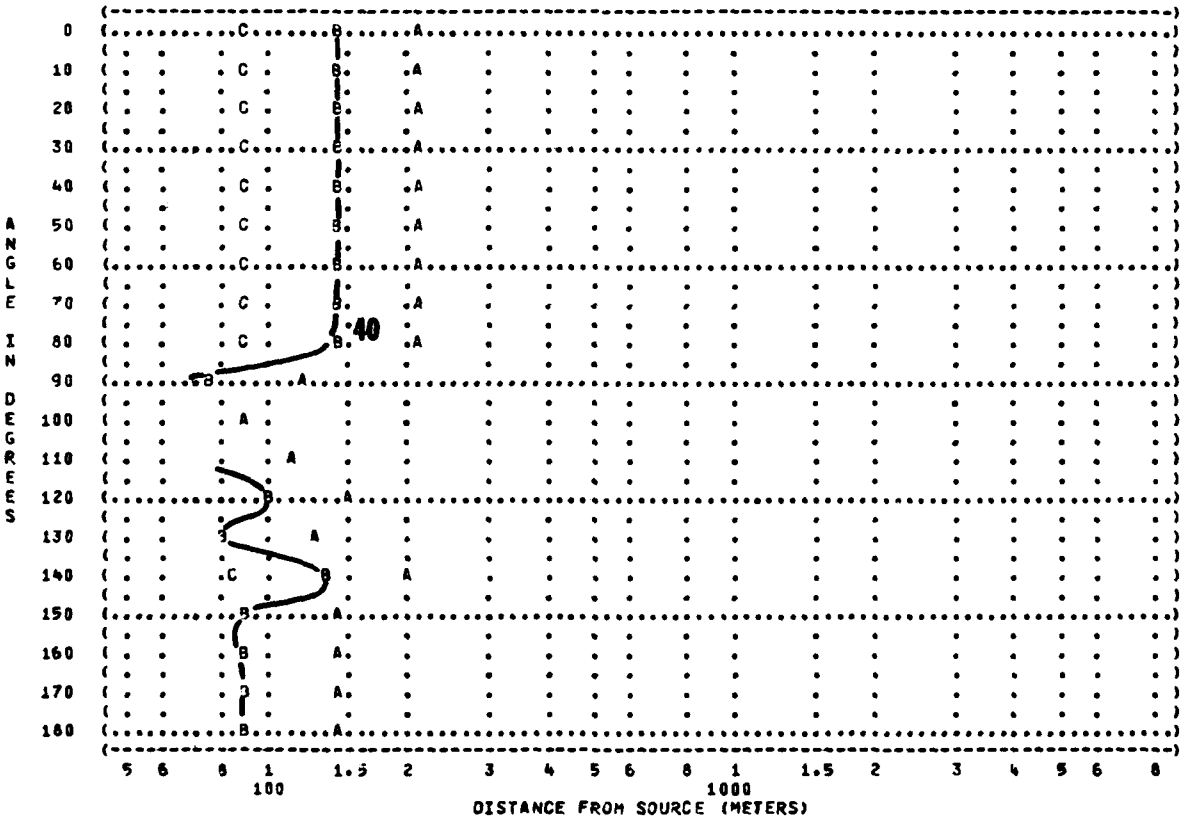


FIGURE: **13.8** SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST 3F-717-001
RUN 01
26 OCT 81
PAGE 27

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-10b ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45

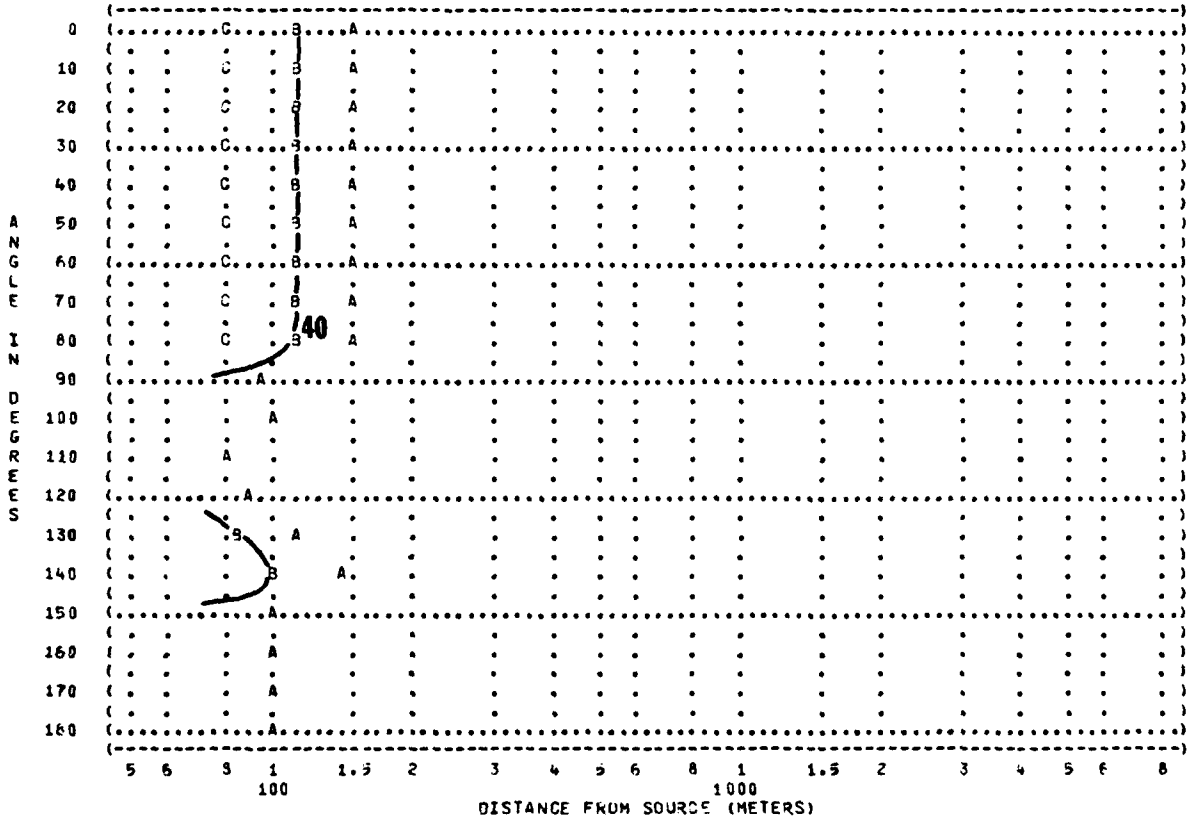


FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 15 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-001
RUN 02
26 OCT 81
PAGE 18

POINT	DB
A	55
B	60
C	65
D	70
E	75
F	80
G	85
H	90
I	95

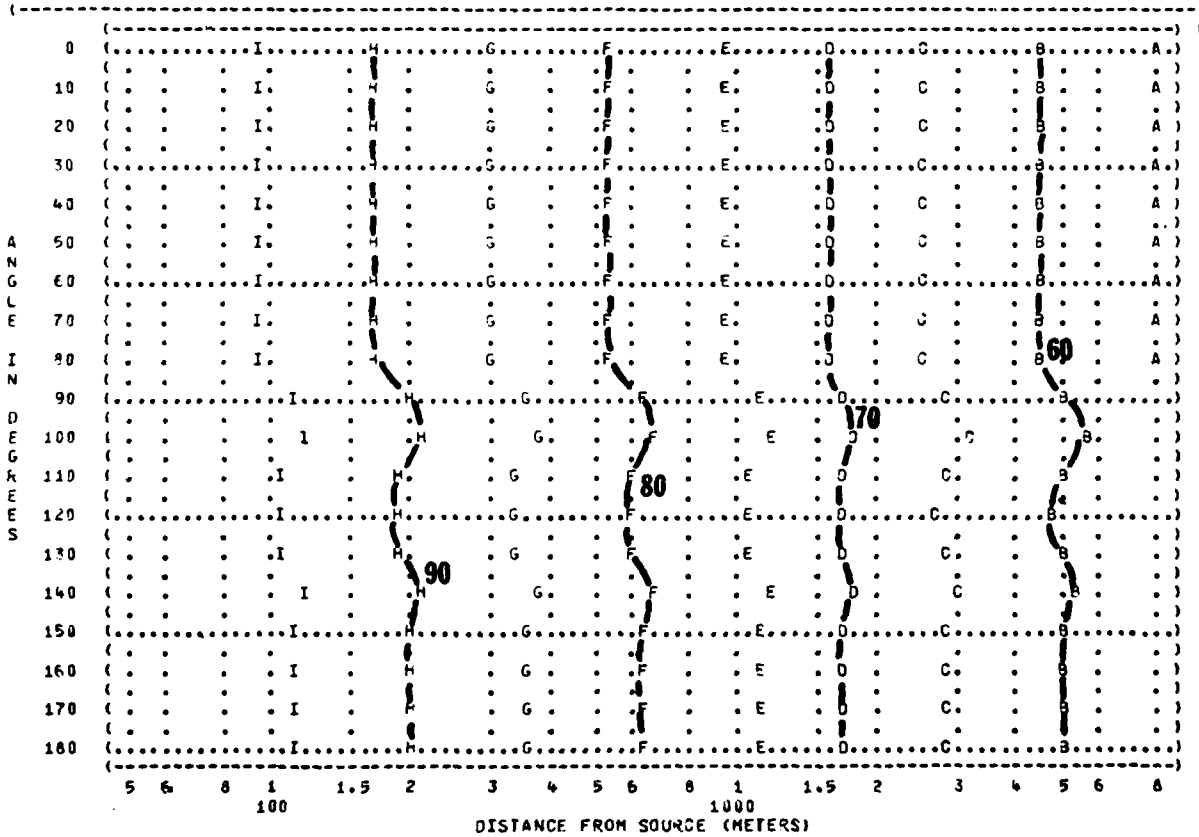


FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST 8F-717-001 RUN 02 26 OCT 81 PAGE 19

POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95

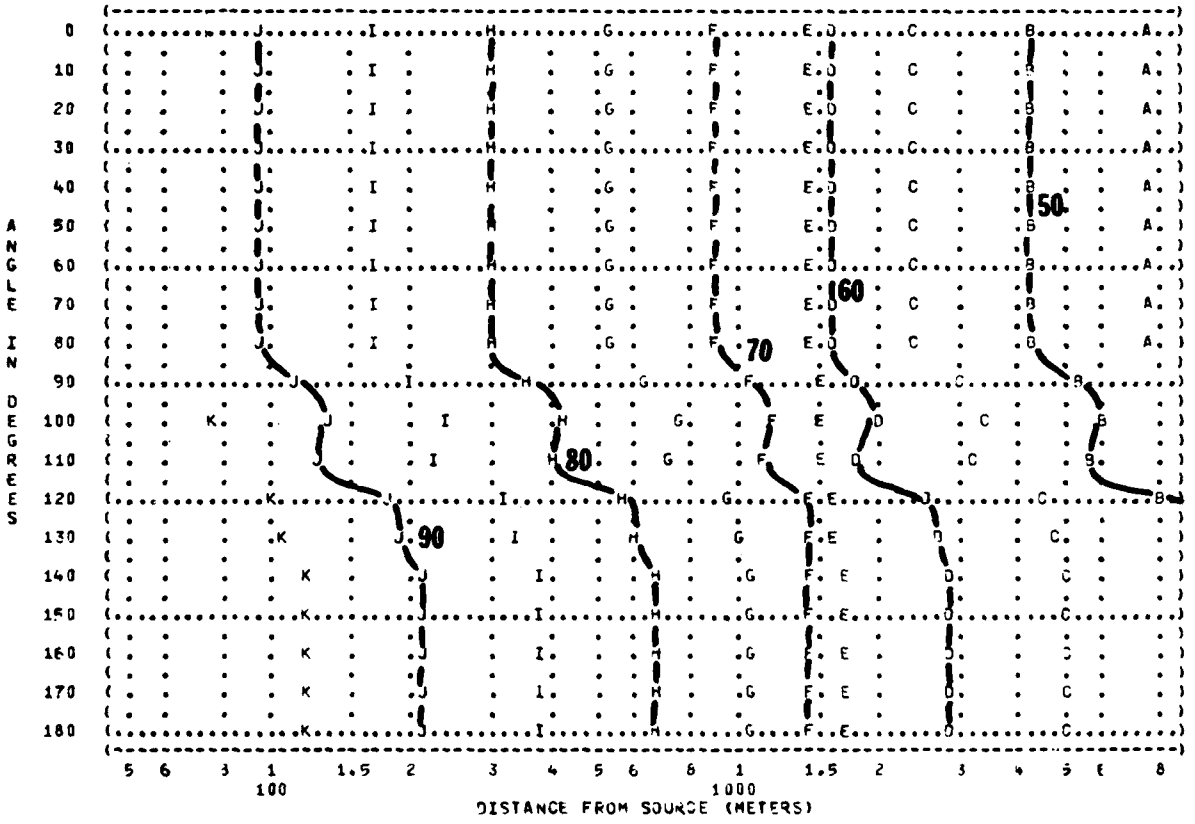


FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

IDENTIFICATION
OMEGA 1.4
TEST BF-717-001
RUN 02
26 OCT 81
PAGE 20

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90

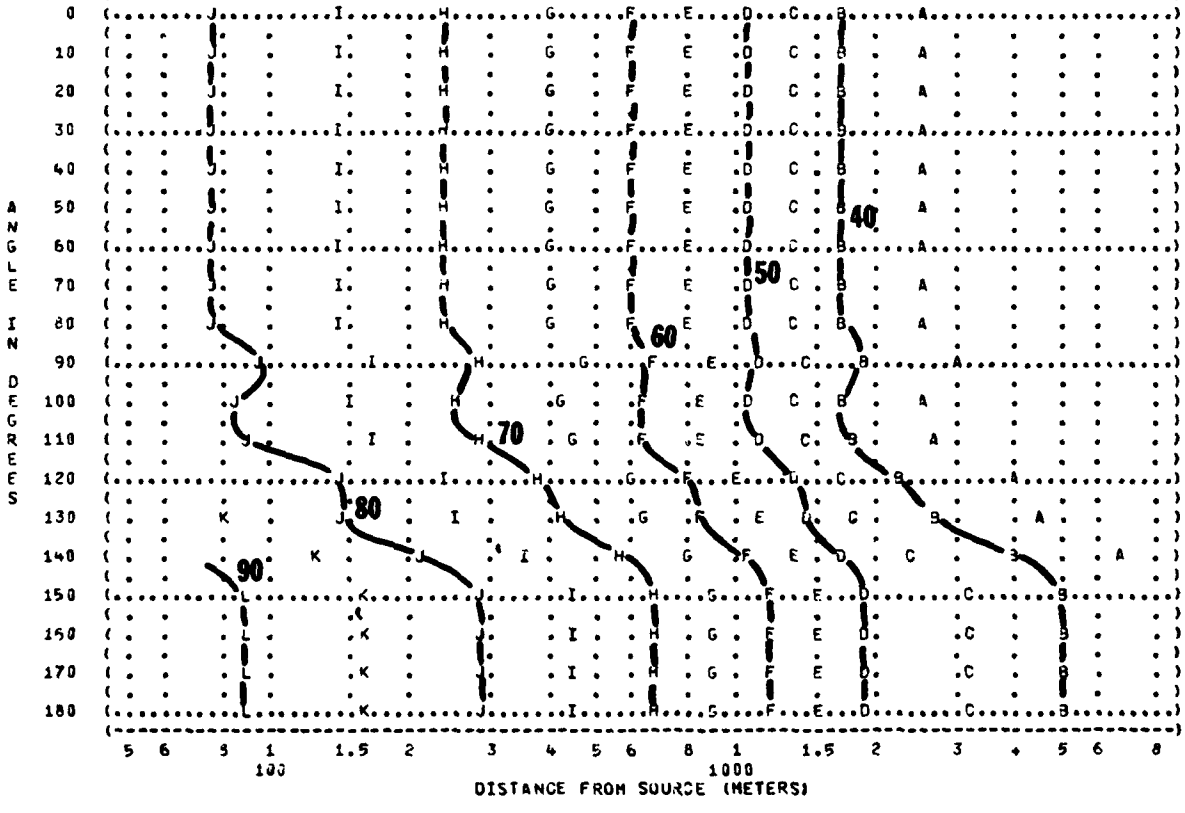


FIGURE: 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST 3F-717-001
RUN 02
26 OCT 91
PAGE 21

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

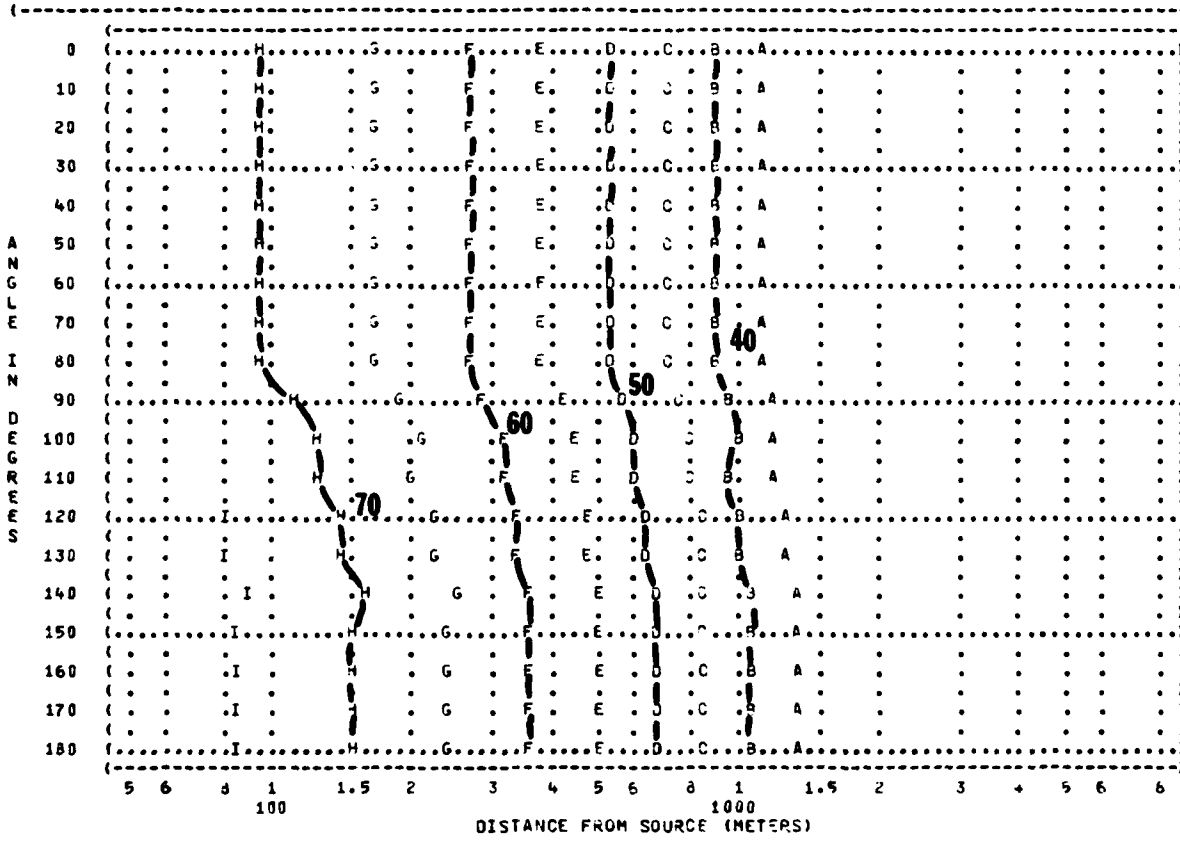


FIGURE: 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST RF-717-001
RUN 02
26 OCT 91
PAGE 22

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-10b ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

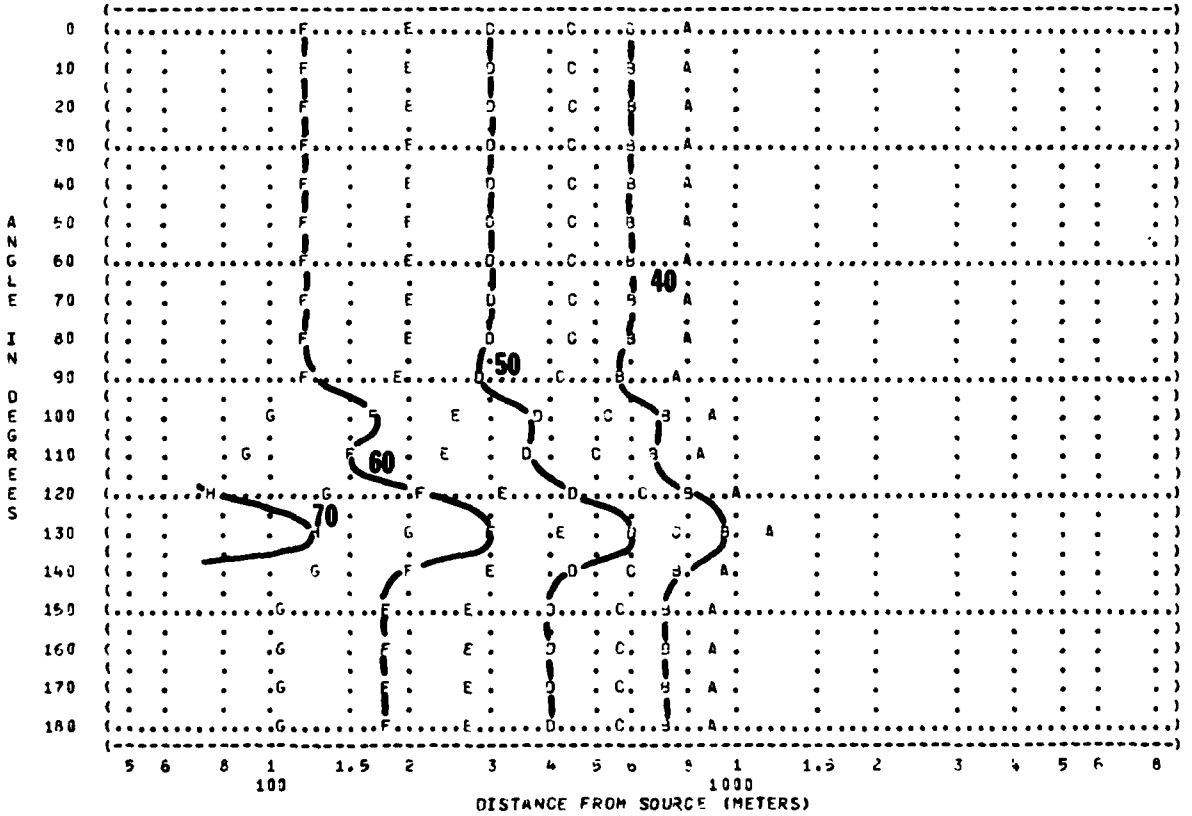


FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

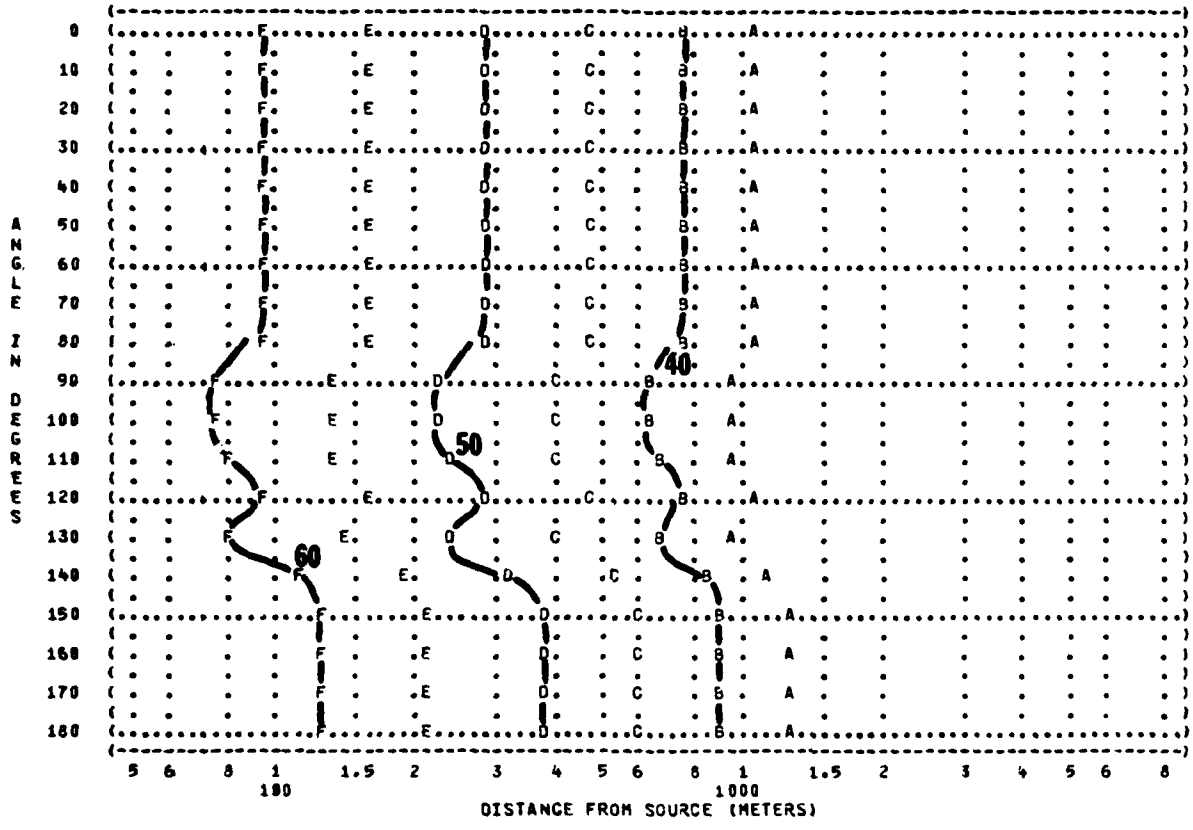
NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 02 26 OCT 81

PAGE 23



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-717-801 RUN 02 26 OCT 81 PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

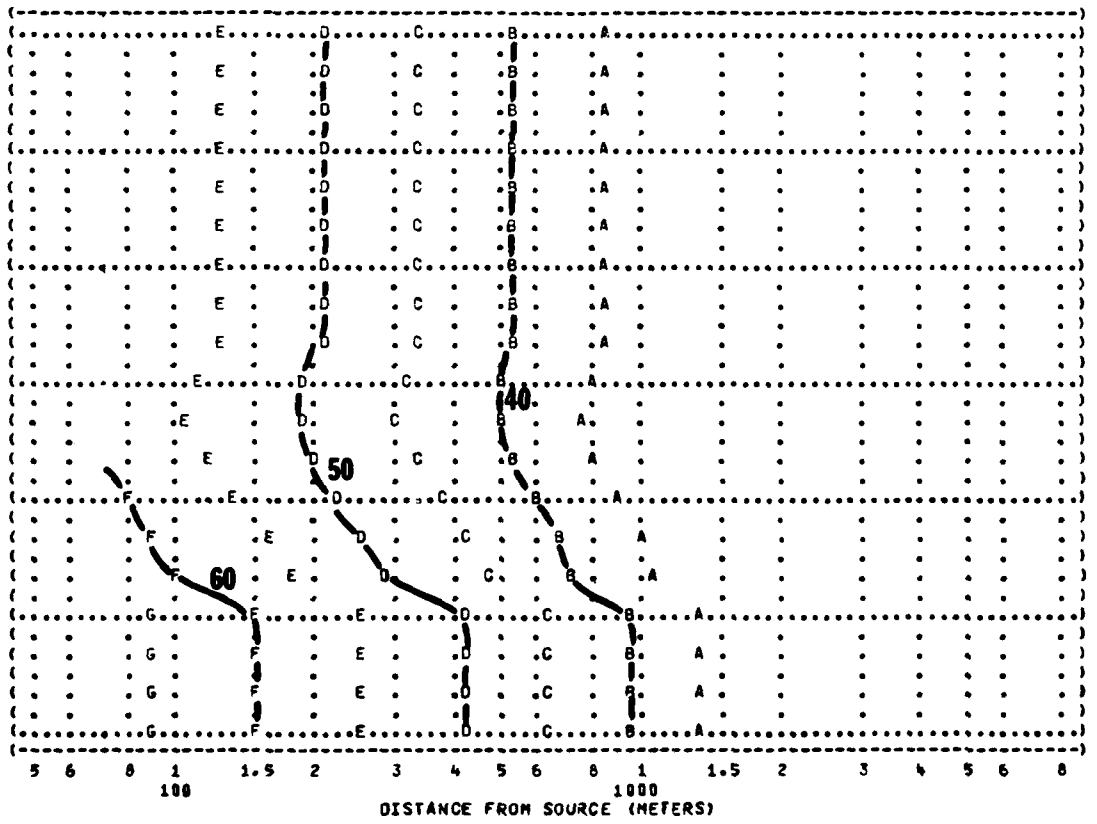


FIGURE: 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST SF-717-001
RUN 02
26 OCT 81
PAGE 25

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

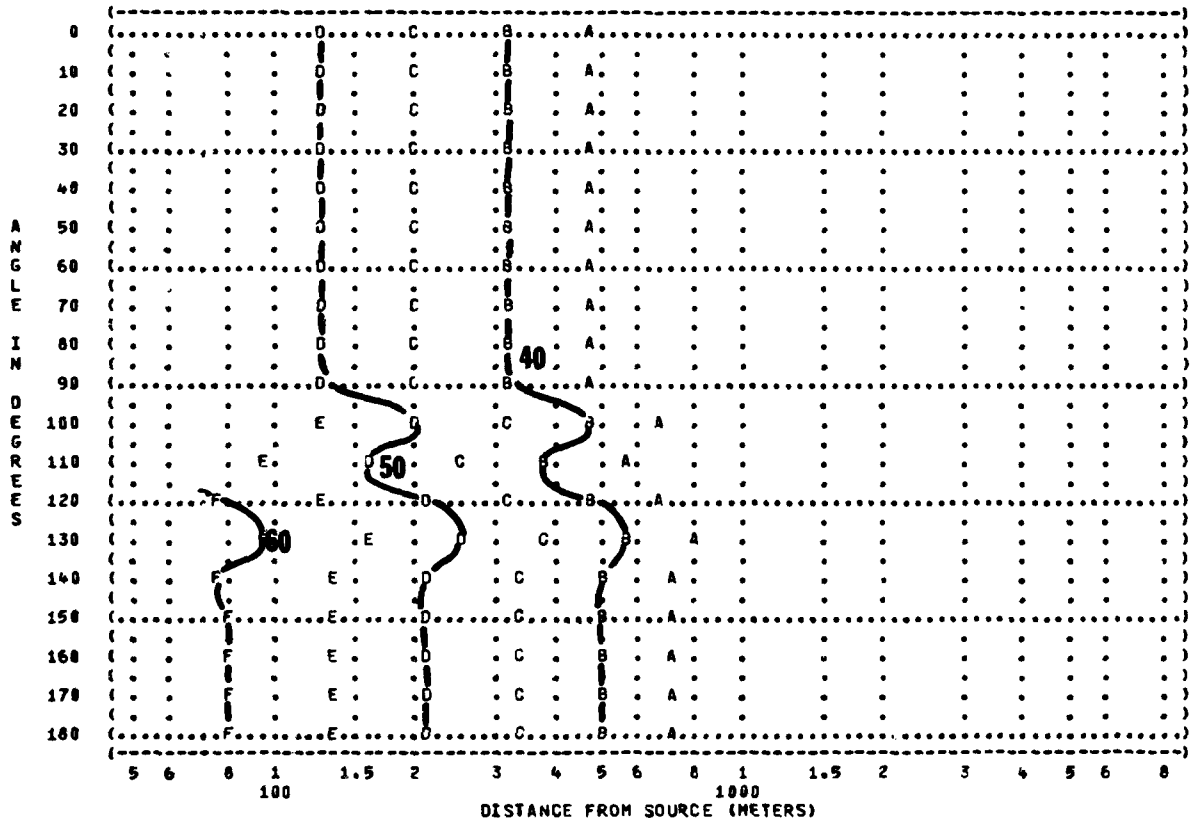


FIGURE: SOUND PRESSURE LEVEL (SPL)
13.8 EQUAL LEVEL CONTOURS (DB)
4000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-001
RUN 02
26 OCT 81
PAGE 26

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

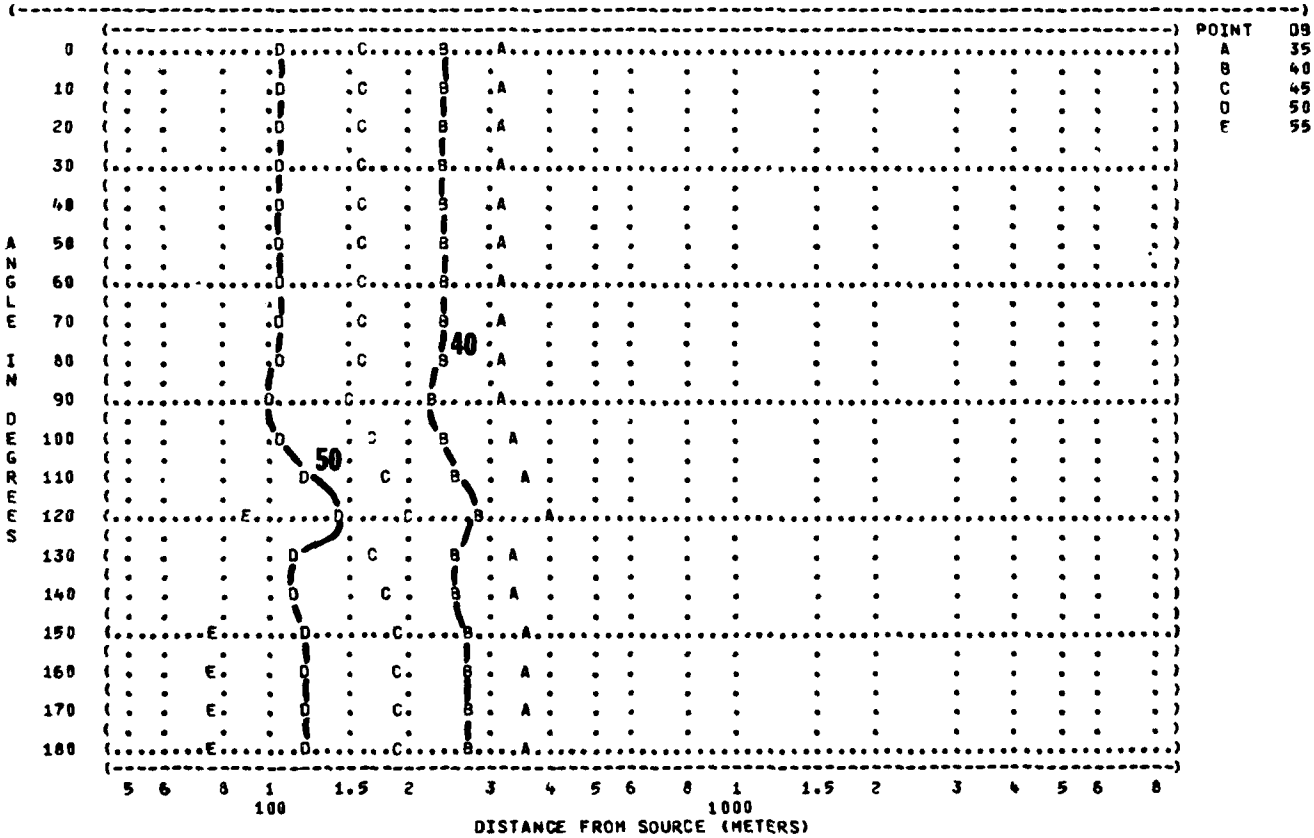


FIGURE: 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-001
RUN 02
26 OCT 81
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NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

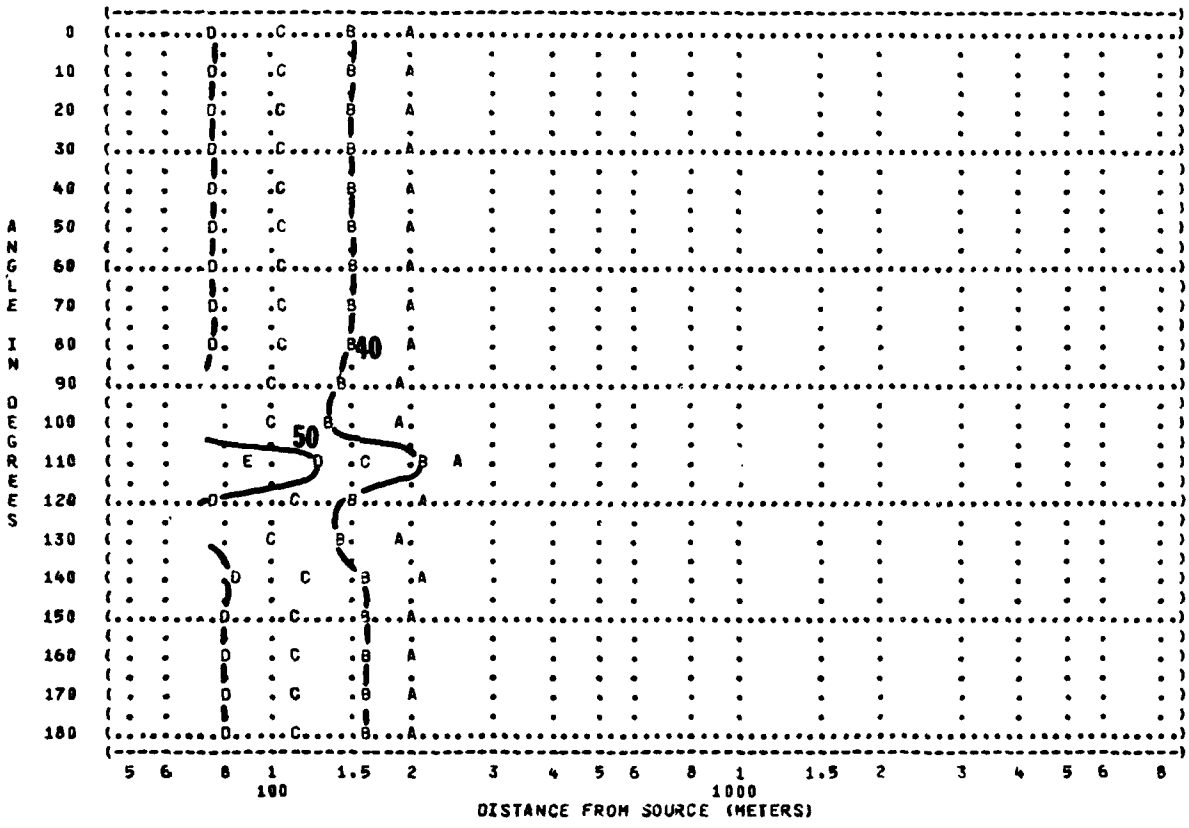


FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 03 26 OCT 81 PAGE 18

POINT	DB
A	65
B	70
C	75
D	80
E	85
F	90
G	95
H	100
I	105

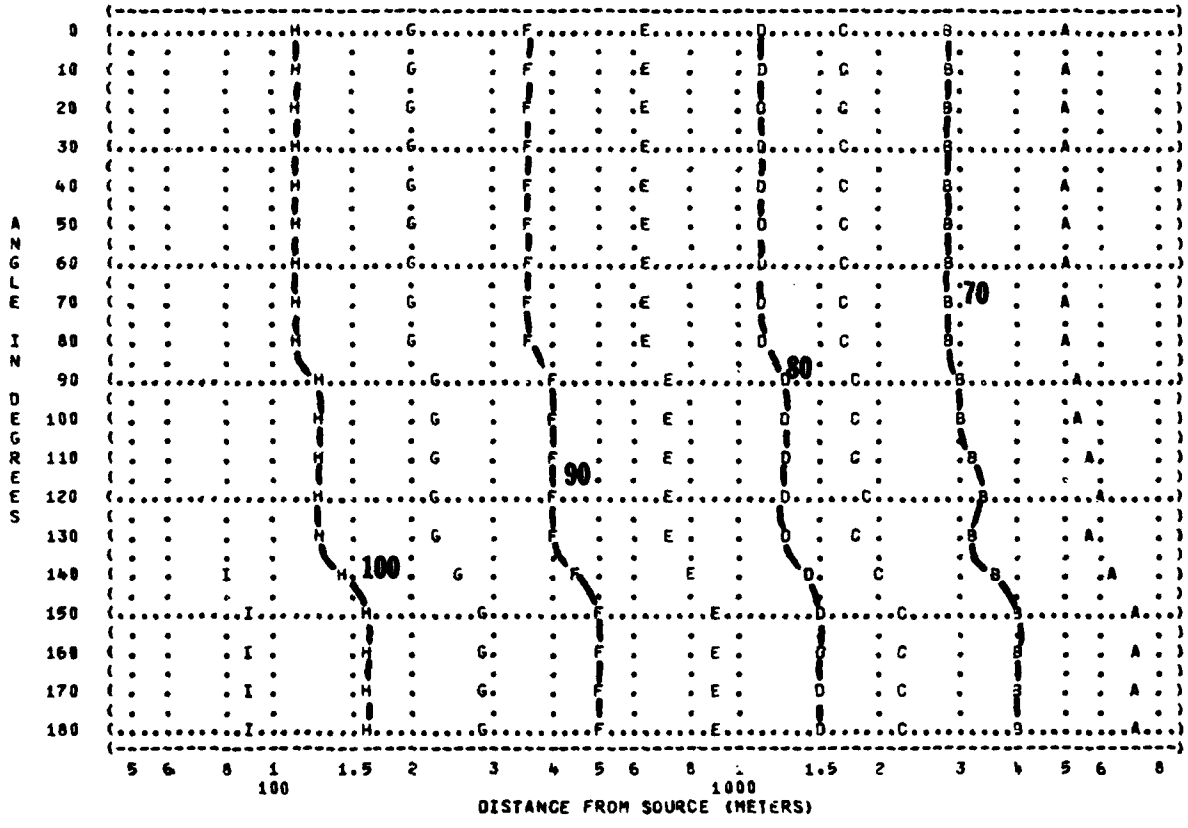


FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 03 26 OCT 81 PAGE 19

POINT	DB
A	55
B	60
C	65
D	70
E	75
F	80
G	85
H	90
I	95
J	100
K	105

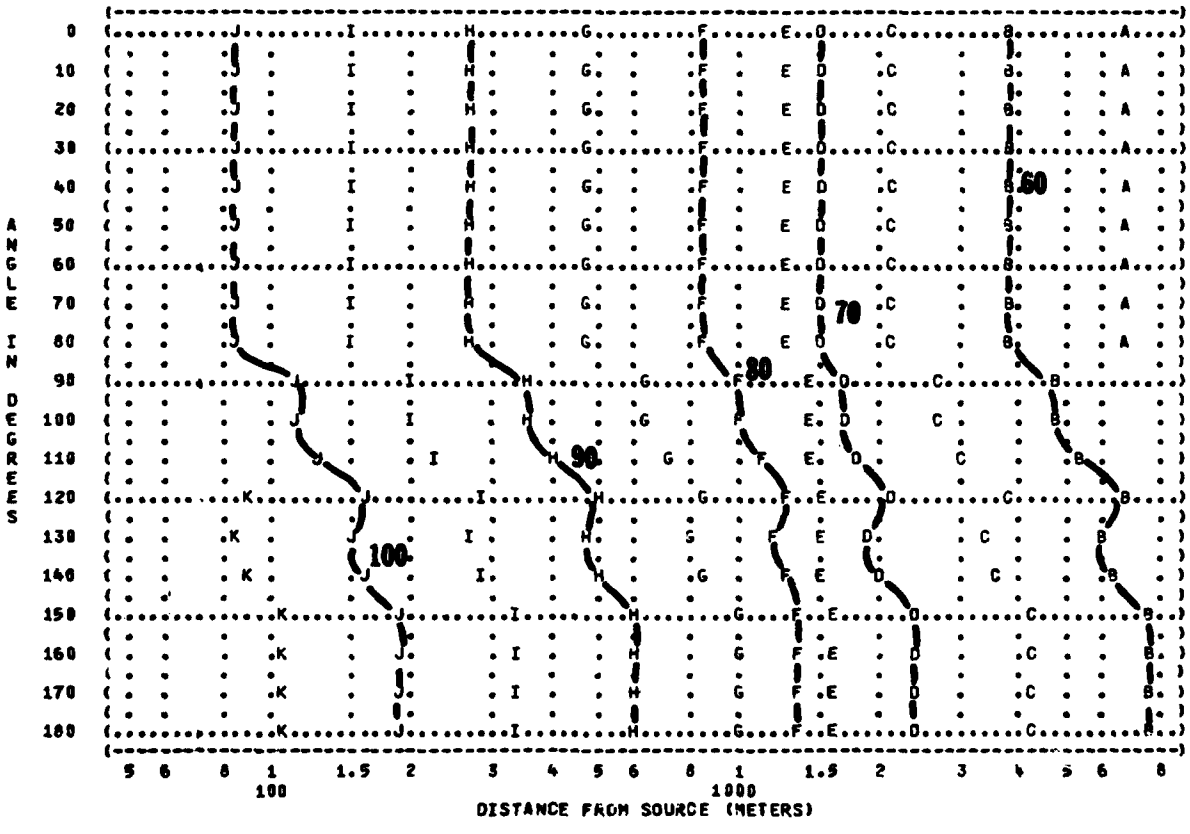


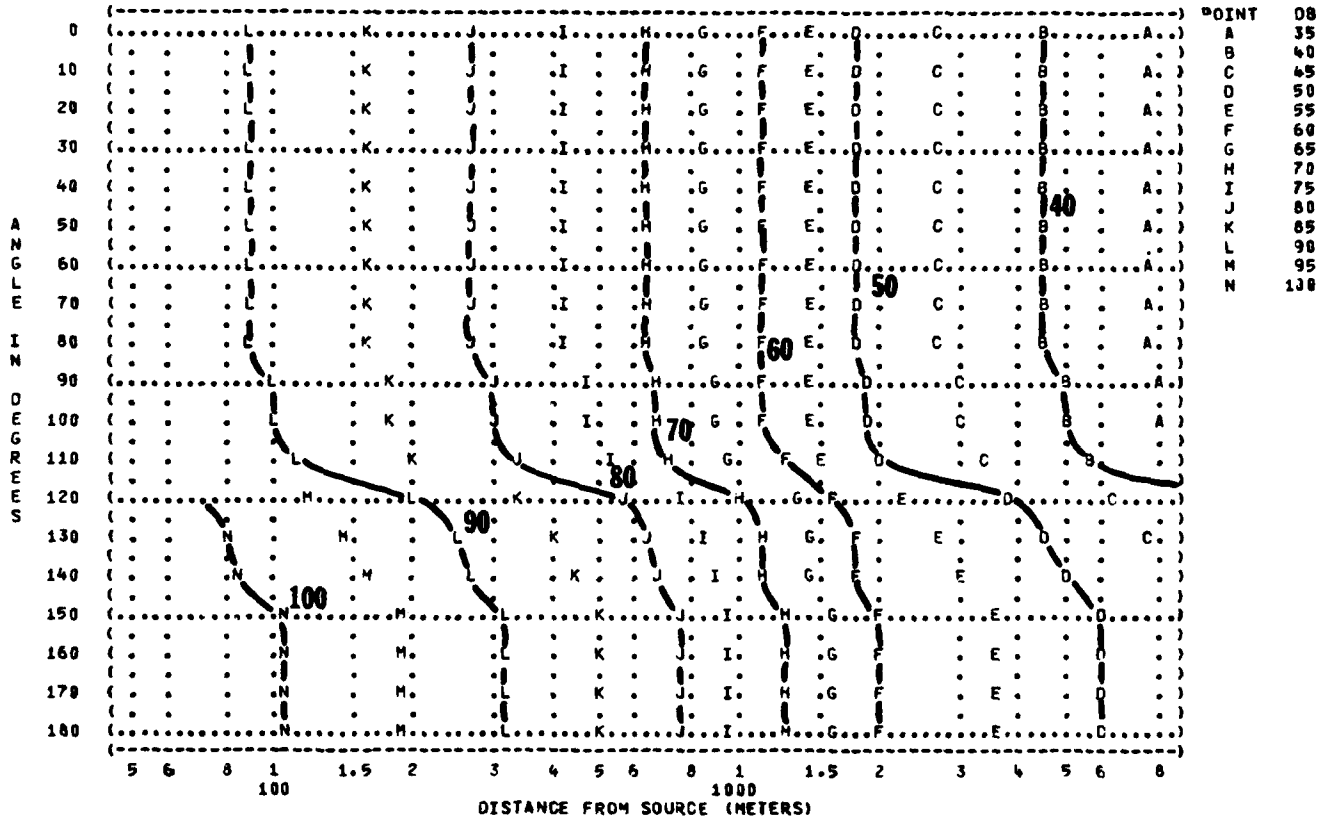
FIGURE: 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-001
RUN 03
26 OCT 81
PAGE 20



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90
M	95
N	100

FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 03 26 OCT 81 PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

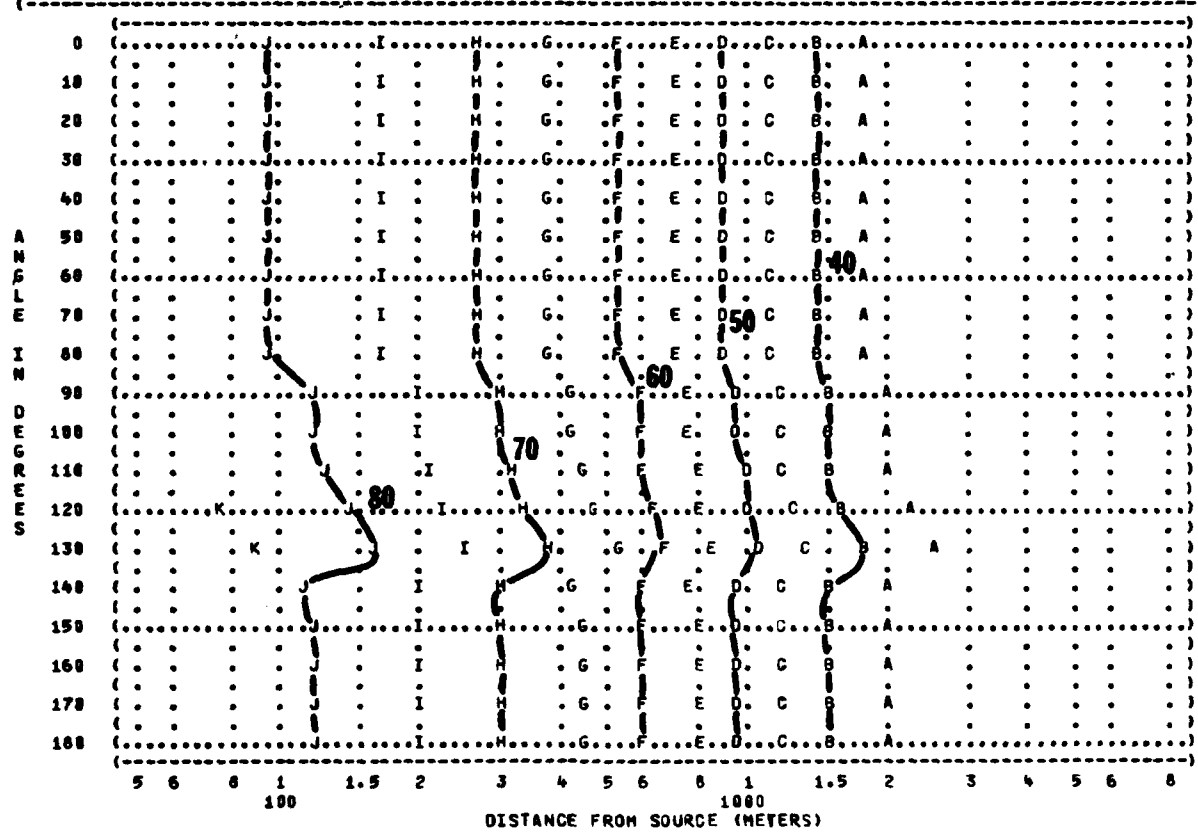


FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 03 26 OCT 81 PAGE 22

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

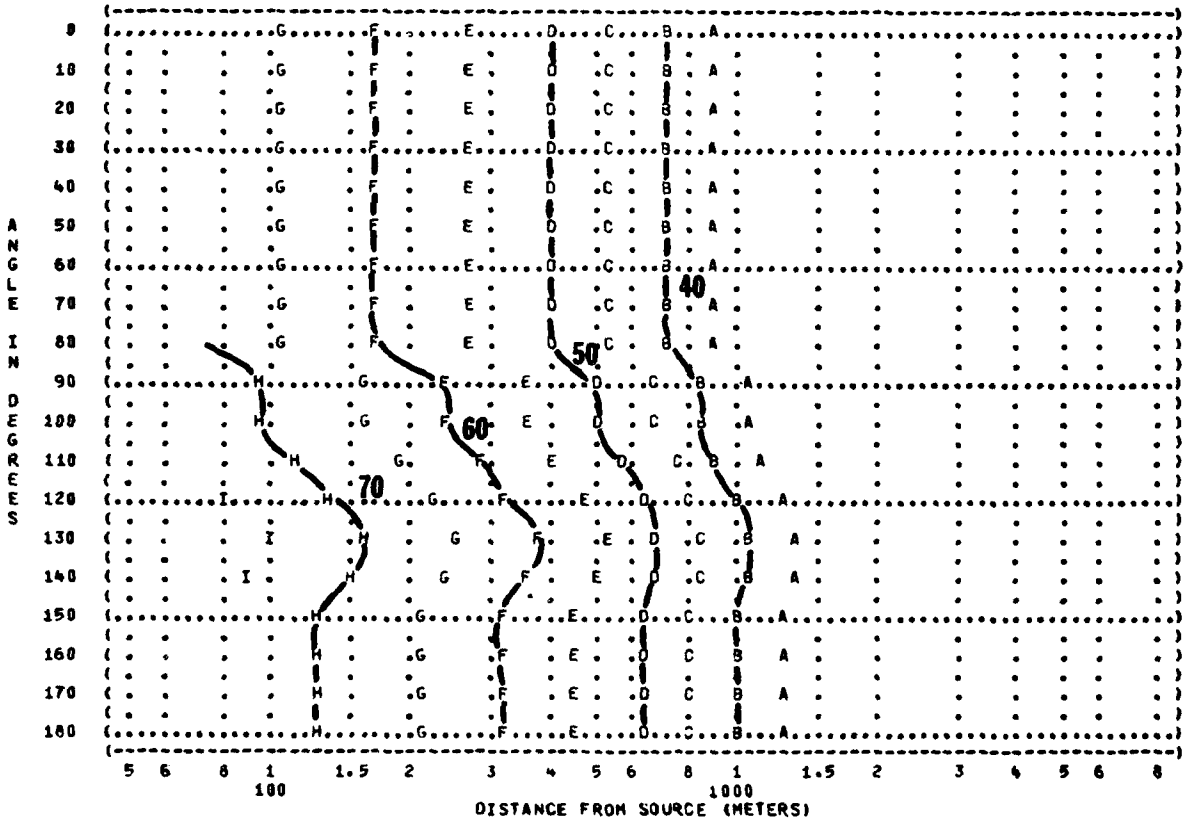


FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-001
RUN 03
26 OCT 81
PAGE 23

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

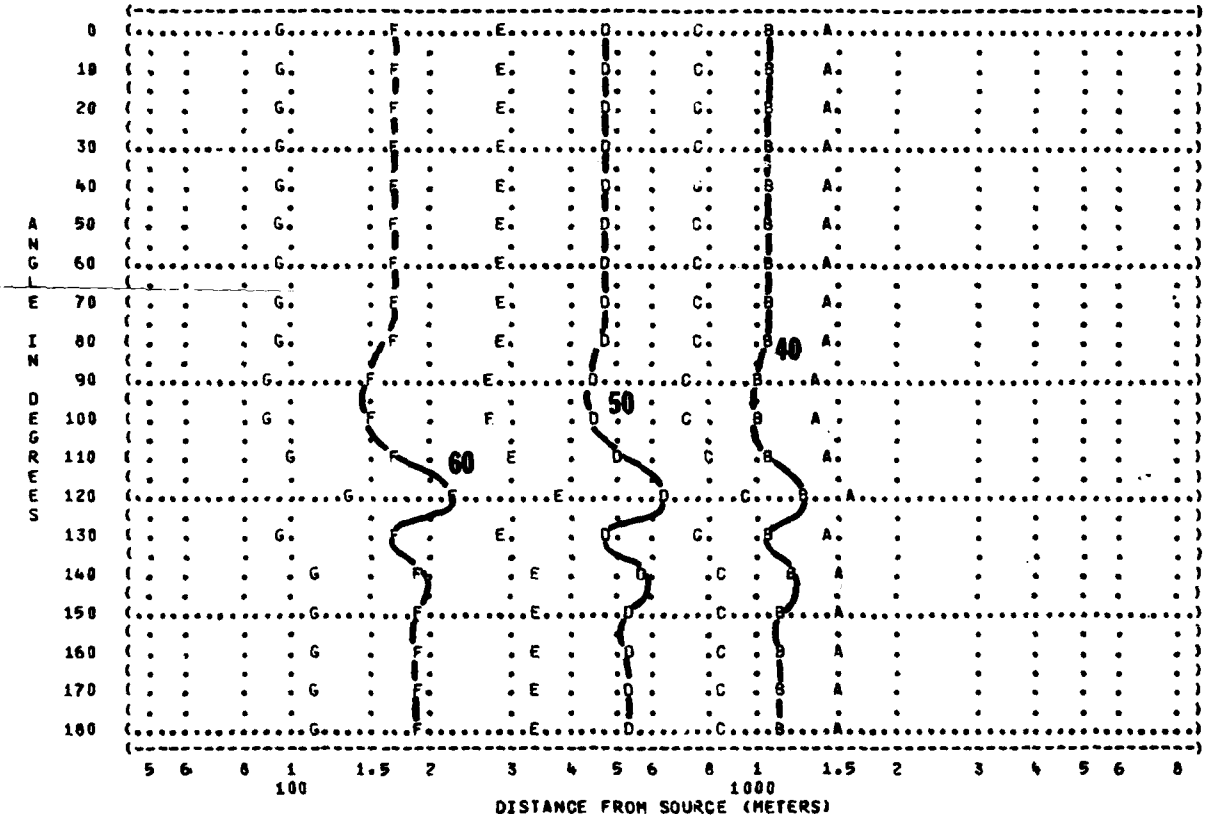


FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-717-001
RUN 03
26 OCT 81
PAGE 24

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

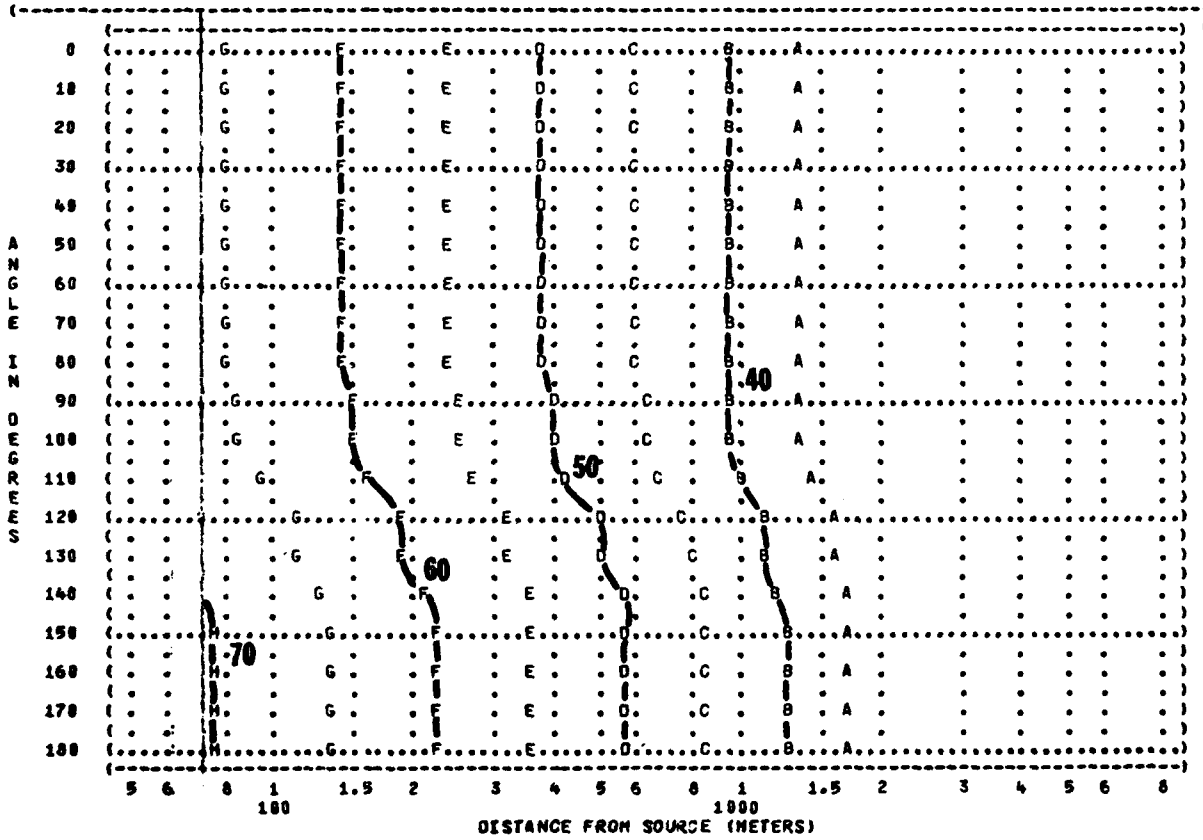


FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 03 26 OCT 81 PAGE 25

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

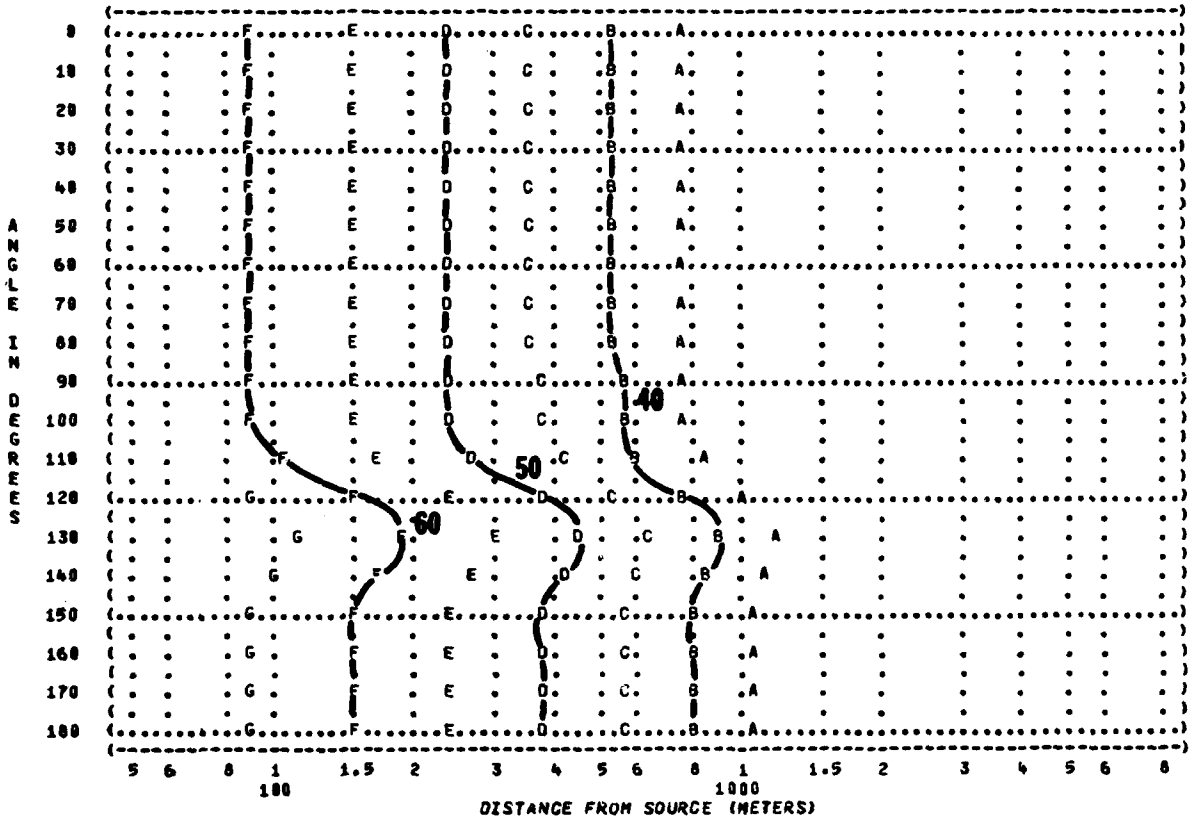


FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-717-001 RUN 03 26 OCT 81 PAGE 26

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

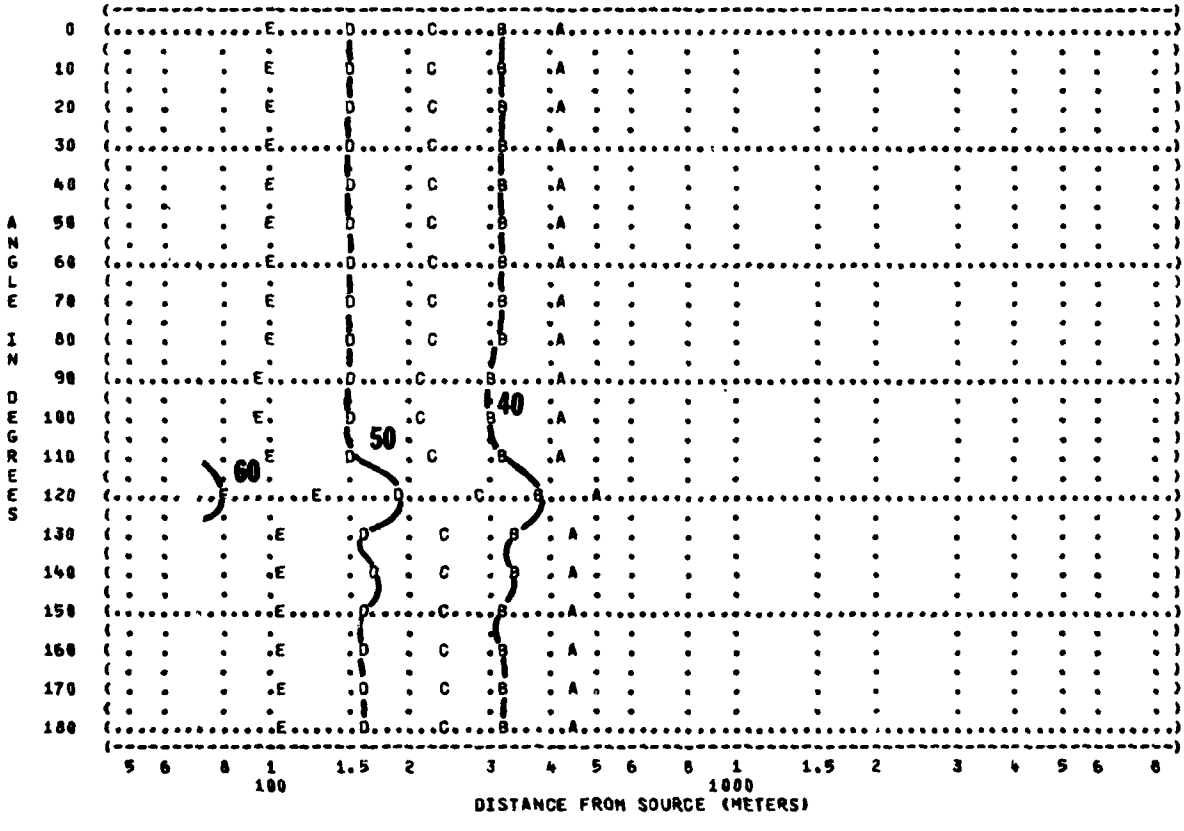


FIGURE 13.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: J75-P-17 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-106 ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST 8F-717-801 RUN 03 26 OCT 81 PAGE 27

POINT	DB
A	35
B	40
C	45
D	50

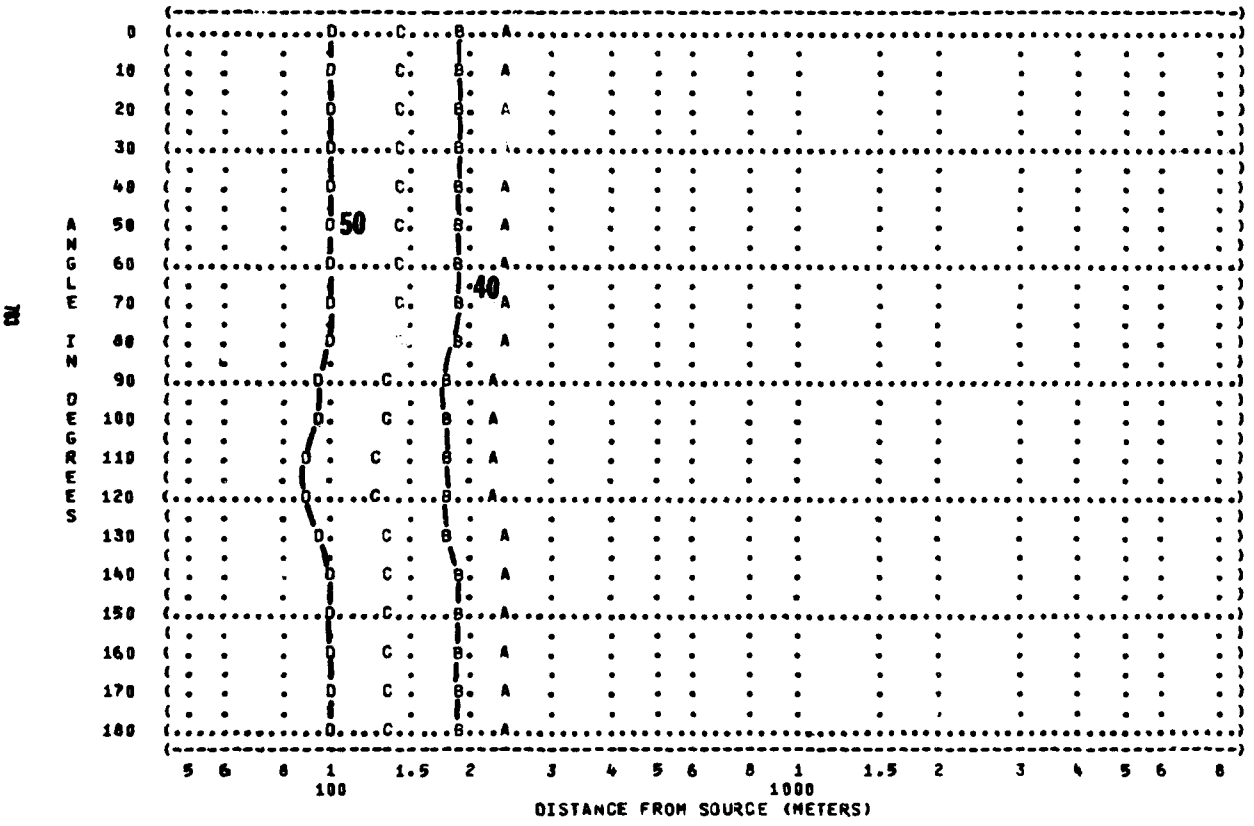
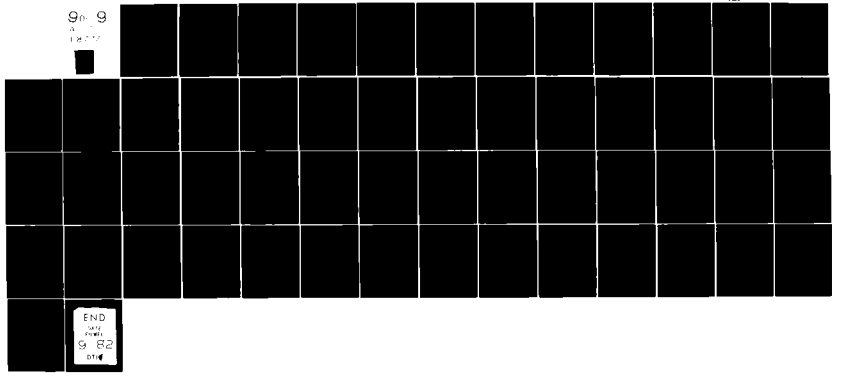


TABLE 14.1

TEST CONDITIONS FOR FAR-FIELD NOISE MEASUREMENTS TF30-P-100 ENGINE IN THE ASE-TEXAS INC. HUSH-HOUSE, GROUND RUNUP KELLY AFB TEXAS, TEST #BF-718-001 (Engine For The F-111F Aircraft)

Engine Operation	Single Engine
85%	85.1 % RPM
	4057 LBS/HR FF
Military Power	96.1 % RPM
	9252 LBS/HR FF
Afterburner Power	95.5 % RPM
	54956 LBS/HR FF
Meteorology	
Temperature	33 C
Bar Pressure	.743 M Hg
Rel Humidity	50 %
Wind - Speed	2 M/Sec (4 Kts)
- Direction	140 Deg

AD-A118 773 AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATT--ETC F/G 20/1
USAF BIOENVIRONMENTAL NOISE DATA HANDBOOK. VOLUME 172. HUSH-HOU--ETC(U)
JUL 82 R A LEE, T H RAU, C JONES
UNCLASSIFIED AMRL-TR-75-50-VOL-172 NL



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DATE FILMED
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TABLE: 14.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 33 C
BAR PRESS = .743 M HG
REL HUMID = 50 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-716-081
RUN 01
26 OCT 81
PAGE 2

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	81	81	81	81	81	81	81	81	81	81	81	81	82	81	79	80	80	80	80
16	82	82	82	82	82	82	82	82	82	82	81	84	81	84	64	83	83	83	83
20	83	83	83	83	83	83	83	83	83	83	82	83	85	82	79	82	82	82	82
25	78	78	78	78	78	78	78	78	78	78	79	81	88	81	80	79	79	79	79
31.5	70<	70<	70<	70<	70<	70<	70<	70<	70<	70<	74	74	76	77	76	78	78	78	78
40	65<	65<	65<	65<	65<	65<	65<	65<	65<	65<	66<	69<	72<	72<	74<	74<	74<	74<	74<
50	64<	64<	64<	64<	64<	64<	64<	64<	64<	64<	62<	63<	66<	66<	69	71	71	71	71
63													64<						
80																			
100											61<	59<	61<	60<	59<				
125	56<	56<	56<	56<	56<	56<	56<	56<	56<	56<	57<	58<	60<	58<	59<	56<	56<	56<	56<
160												53<	56<	56<	55<				
200												47<	53<	53<	53<	50<	50<	50<	50<
250												44<	50<	53<	52<	49<	49<	49<	49<
315																47<	47<	47<	47<
400																44<	44<	44<	44<
500														42<		46<	46<	46<	46<
630													42<	43<		46<	46<	46<	46<
800													42<	43<	40<	44<	44<	44<	44<
1000																44<	44<	44<	44<
1250																44<	44<	44<	44<
1600														40<	40<	42<	42<	42<	42<
2000														40<					
2500	35<	35<	35<	35<	35<	35<	35<	35<	35<	35<	34<	34<	35<	37<	35<	37<	37<	37<	37<
3150	47	47	47	47	47	47	47	47	47	47	41	40<	38<	41	39<	42	42	42	42
4000	40<	40<	40<	40<	40<	40<	40<	40<	40<	40<	34<	34<	34<	36<	36<	37<	37<	37<	37<
5000	35<	35<	35<	35<	35<	35<	35<	35<	35<	35<	31<	32<	33<	34<	34<	35<	35<	35<	35<
6300	40	40	40	40	40	40	40	40	40	40	32<	32<	32<	34<	34<	35<	35<	35<	35<
8000	36<	36<	36<	36<	36<	36<	36<	36<	36<	36<			31<	32<	31<	32<	32<	32<	32<
10000	35<	35<	35<	35<	35<	35<	35<	35<	35<	35<	29<	28<	29<	30<	29<	29<	29<	29<	29<
OVERALL	87	87	87	87	87	87	87	87	87	87	87	89	89	89	88	88	88	88	88

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 14.2

MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 02
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (94%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 33 C
BAR PRESS = .743 M HG
REL HUMID = 50 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	87	87	87	87	87	87	87	87	87	87	88	88	89	88	89	89	89	89	89
16	90	90	90	90	90	90	90	90	90	90	89	89	90	88	88	93	93	93	93
20	89	89	89	89	89	89	89	89	89	89	90	91	90	90	90	92	92	92	92
25	86	86	86	86	86	86	86	86	86	85	88	86	89	89	91	92	92	92	92
31.5	79	79	79	79	79	79	79	79	79	79	81	84	84	85	86	90	90	90	90
40	77	77	77	77	77	77	77	77	77	77	78	79	82	82	86	88	88	88	88
50	73	73	73	73	73	73	73	73	73	73	74	73	76	77	81	85	85	85	85
63	71<	71<	71<	71<	71<	71<	71<	71<	71<	71<	74	73	74	72<	74	77	77	77	77
80	69<	69<	69<	69<	69<	69<	69<	69<	69<	69<	72<	70<	71<	71<	72<	73<	73<	73<	73<
100	67<	67<	67<	67<	67<	67<	67<	67<	67<	67<	70<	68<	71	73	72	74	74	74	74
125	64<	64<	64<	64<	64<	64<	64<	64<	64<	64<	67	65<	66	68	70	71	71	71	71
160	58<	58<	58<	58<	58<	58<	58<	58<	58<	58<	61<	61<	64	63	67	65	65	65	65
200	53<	53<	53<	53<	53<	53<	53<	53<	53<	53<	54<	56<	60	62	65	60	60	60	60
250	49<	49<	49<	49<	49<	49<	49<	49<	49<	49<	51<	54<	61	63	66	62	62	62	62
315	46<	46<	46<	46<	46<	46<	46<	46<	46<	46<	48<	48<	53<	58	57	55<	55<	55<	55<
400	48<	48<	48<	48<	48<	48<	48<	48<	48<	48<	48<	46<	50<	52<	51<	56	56	56	56
500	50<	50<	50<	50<	50<	50<	50<	50<	50<	50<	50<	48<	52	53	53	57	57	57	57
630	51	51	51	51	51	51	51	51	51	51	50<	49<	52	52	54	58	58	58	58
800	52	52	52	52	52	52	52	52	52	52	50<	51<	52	52	56	57	57	57	57
1000	48<	48<	48<	48<	48<	48<	48<	48<	48<	48<	48<	49<	50<	52<	56	58	58	58	58
1250	47<	47<	47<	47<	47<	47<	47<	47<	47<	47<	46<	49<	50<	53<	56	59	59	59	59
1600	46<	46<	46<	46<	46<	46<	46<	46<	46<	46<	46<	47<	50	53	56	56	56	56	56
2000	45<	45<	45<	45<	45<	45<	45<	45<	45<	45<	44<	46<	49<	52	53	52	52	52	52
2500	42<	42<	42<	42<	42<	42<	42<	42<	42<	42<	42<	44	45	47	48	50	50	50	50
3150	42	42	42	42	42	42	42	42	42	42	41	43	45	45	47	48	48	48	48
4000	44	44	44	44	44	44	44	44	44	44	41<	42	43	43	46	47	47	47	47
5000	43	43	43	43	43	43	43	43	43	43	41	41	43	43	46	46	46	46	46
6300	42	42	42	42	42	42	42	42	42	42	39<	40	41	42	44	45	45	45	45
8000	41<	41<	41<	41<	41<	41<	41<	41<	41<	41<	39<	40<	40<	41<	44	45	45	45	45
10000	37	37	37	37	37	37	37	37	37	37	36	36	37	37	40	42	42	42	42
OVERALL	94	94	94	94	94	94	94	94	94	94	95	96	96	96	97	99	99	99	99

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

TABLE: 14.2 MEASURED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-881
RUN 03
26 OCT 81
PAGE 2

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 33 C
BAR PRESS = .743 M HG
REL HUMID = 50 %

FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
12.5	96	96	96	96	96	96	96	96	95	96	96	97	96	98	97	100	100	100	100
16	98	98	98	98	98	98	98	98	98	98	99	100	98	100	100	102	102	102	102
20	100	100	100	100	100	100	100	100	100	100	99	101	102	99	101	104	104	104	104
25	98	98	98	98	98	98	98	98	98	98	98	100	101	102	103	103	103	103	103
31.5	96	96	96	96	96	96	96	96	96	96	97	100	99	99	101	102	102	102	102
40	92	92	92	92	92	92	92	92	92	92	96	97	99	98	101	105	105	105	105
50	86	86	86	86	86	86	86	86	86	86	89	93	96	96	99	100	100	100	100
63	85	85	85	85	85	85	85	85	85	85	86	88	91	90	93	96	96	96	96
80	83	83	83	83	83	83	83	83	83	83	85	86	87	86	88	90	90	90	90
100	81	81	81	81	81	81	81	81	81	81	84	85	85	85	84	88	88	88	88
125	78	78	78	78	78	78	78	78	78	78	80	82	82	82	83	84	84	84	84
160	73	73	73	73	73	73	73	73	73	73	74	77	79	78	79	79	79	79	79
200	68	68	68	68	68	68	68	68	68	68	70	72	75	74	75	73	73	73	73
250	65	65	65	65	65	65	65	65	65	65	66	68	72	71	74	70	70	70	70
315	63	63	63	63	63	63	63	63	63	63	62	63	67	67	67	69	69	69	69
400	61	61	61	61	61	61	61	61	61	61	62	61	63	64	65	64	64	64	64
500	61	61	61	61	61	61	61	61	61	61	62	61	63	63	65	63	63	63	63
630	62	62	62	62	62	62	62	62	62	62	63	61	64	64	66	64	64	64	64
800	63	63	63	63	63	63	63	63	63	63	64	63	65	64	66	64	64	64	64
1000	62	62	62	62	62	62	62	62	62	62	63	63	65	64	66	64	64	64	64
1250	61	61	61	61	61	61	61	61	61	61	62	63	64	64	66	64	64	64	64
1600	61	61	61	61	61	61	61	61	61	61	61	61	64	63	66	63	63	63	63
2000	59	59	59	59	59	59	59	59	59	59	60	60	62	62	63	62	62	62	62
2500	56	56	56	56	56	56	56	56	56	56	57	57	60	58	59	58	58	58	58
3150	54	54	54	54	54	54	54	54	54	54	55	55	57	56	57	56	56	56	56
4000	52	52	52	52	52	52	52	52	52	52	53	53	53	53	55	53	53	53	53
5000	51	51	51	51	51	51	51	51	51	51	52	52	51	51	53	51	51	51	51
6300	50	50	50	50	50	50	50	50	50	50	50	50	50	50	52	50	50	50	50
8000	49	49	49	49	49	49	49	49	49	49	49	49	49	49	50	49	49	49	49
10000	46	46	46	46	46	46	46	46	46	46	46	45	46	46	47	46	46	46	46
OVERALL	105	105	105	105	105	105	105	105	105	105	106	107	108	108	109	111	111	111	111

LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

FIGURE: 14.1 NORMALIZED FARFIELD NOISE LEVELS

DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.6
TEST 8F-718-001
RUN 01
26 OCT 81
PAGE 6

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

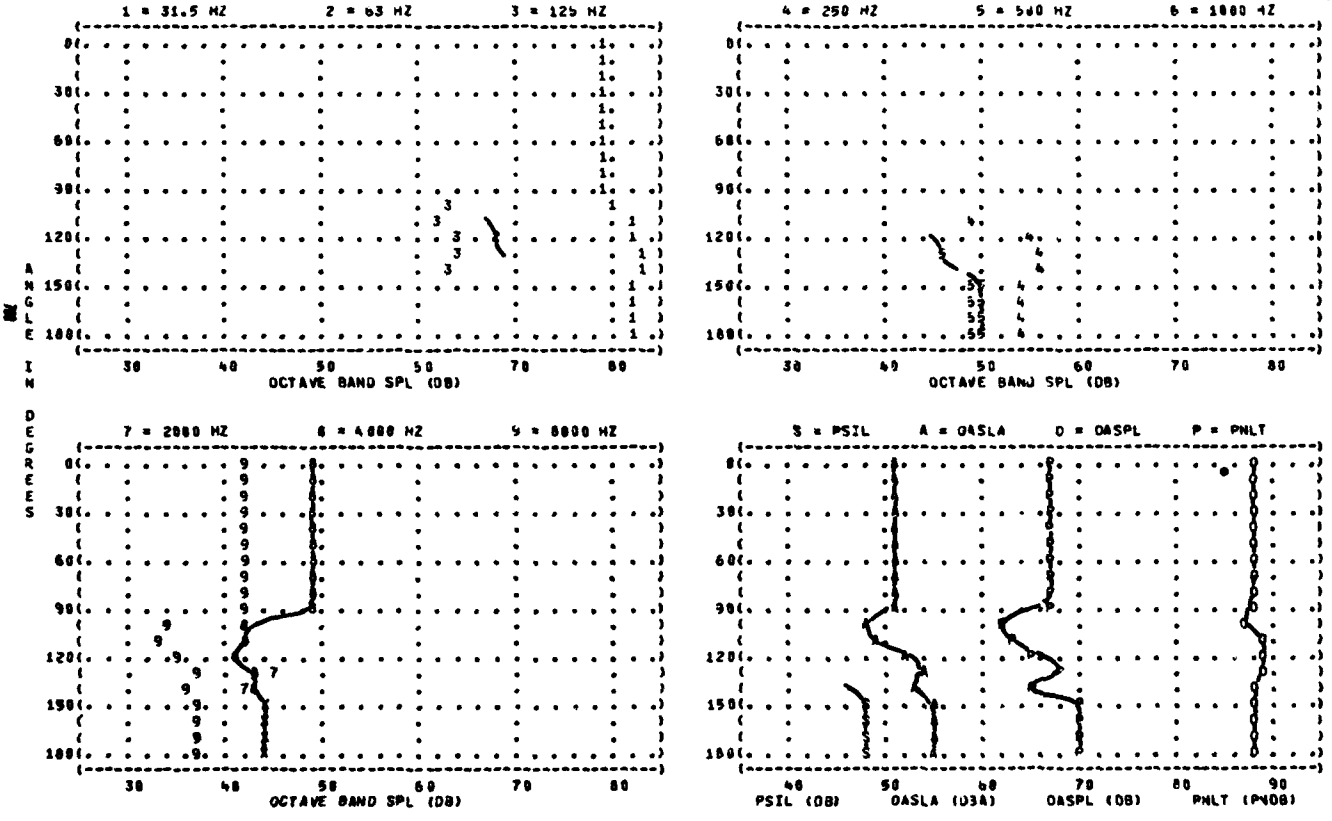


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

14.1

DISTANCE = 100 METERS

IDENTIFICATION:

OMEGA 1.4
TEST BF-718-001
RUN 02
26 OCT 81
PAGE 6

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (94%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

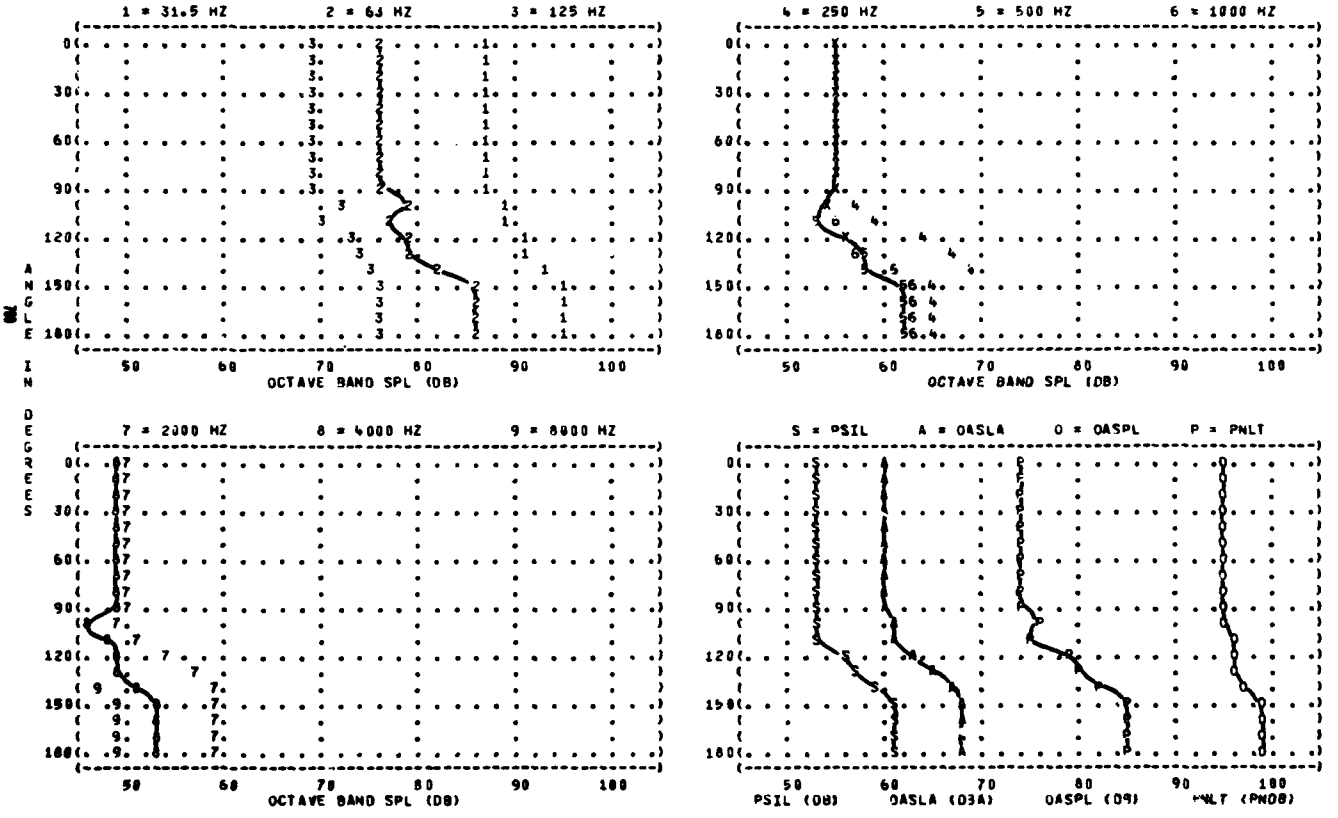


FIGURE: NORMALIZED FARFIELD NOISE LEVELS

14.1

DISTANCE = 100 METERS

IDENTIFICATION:
OMEGA 1.4
TEST AF-718-001
RUN 03
26 OCT 81
PAGE 6

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

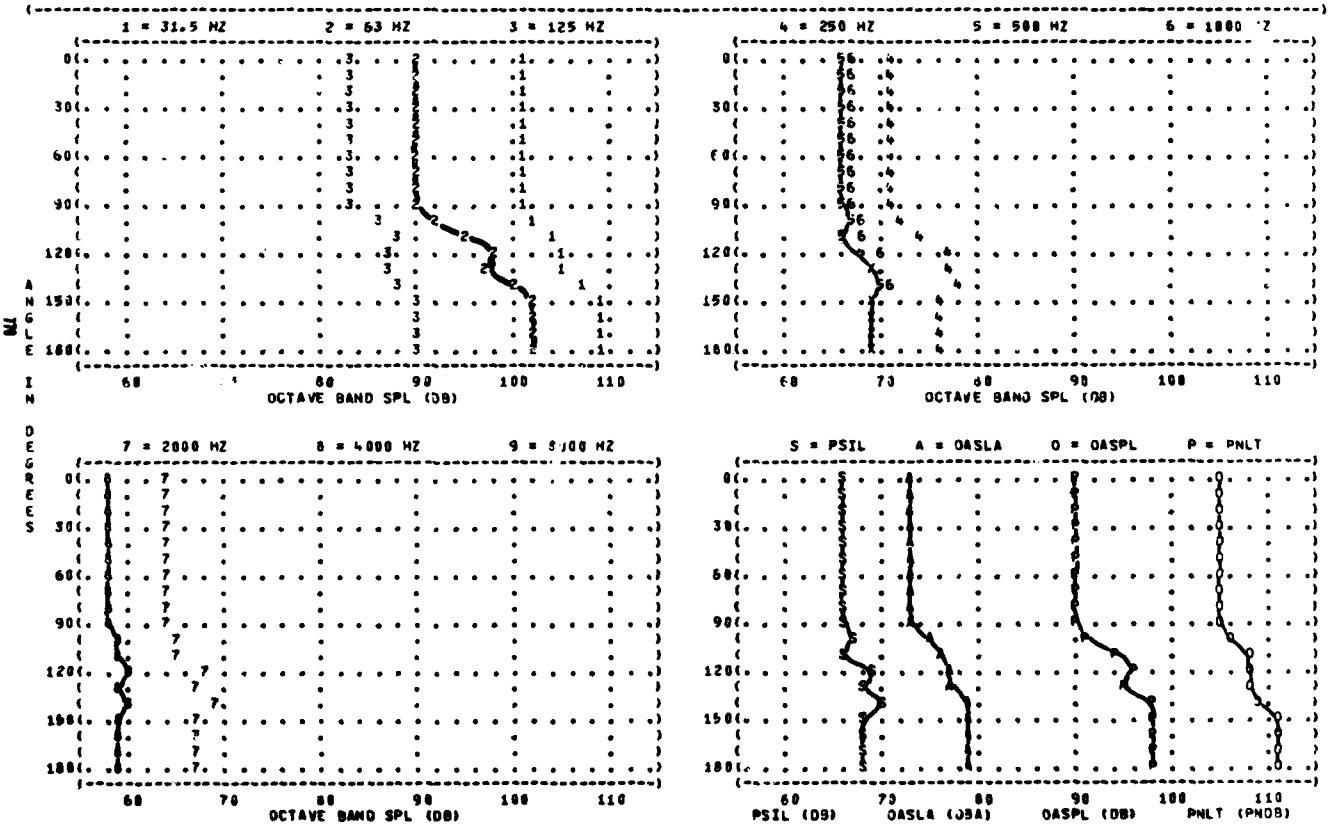


FIGURE: 14.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 01
26 OCT 81
PAGE 13

POINT	DB
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90

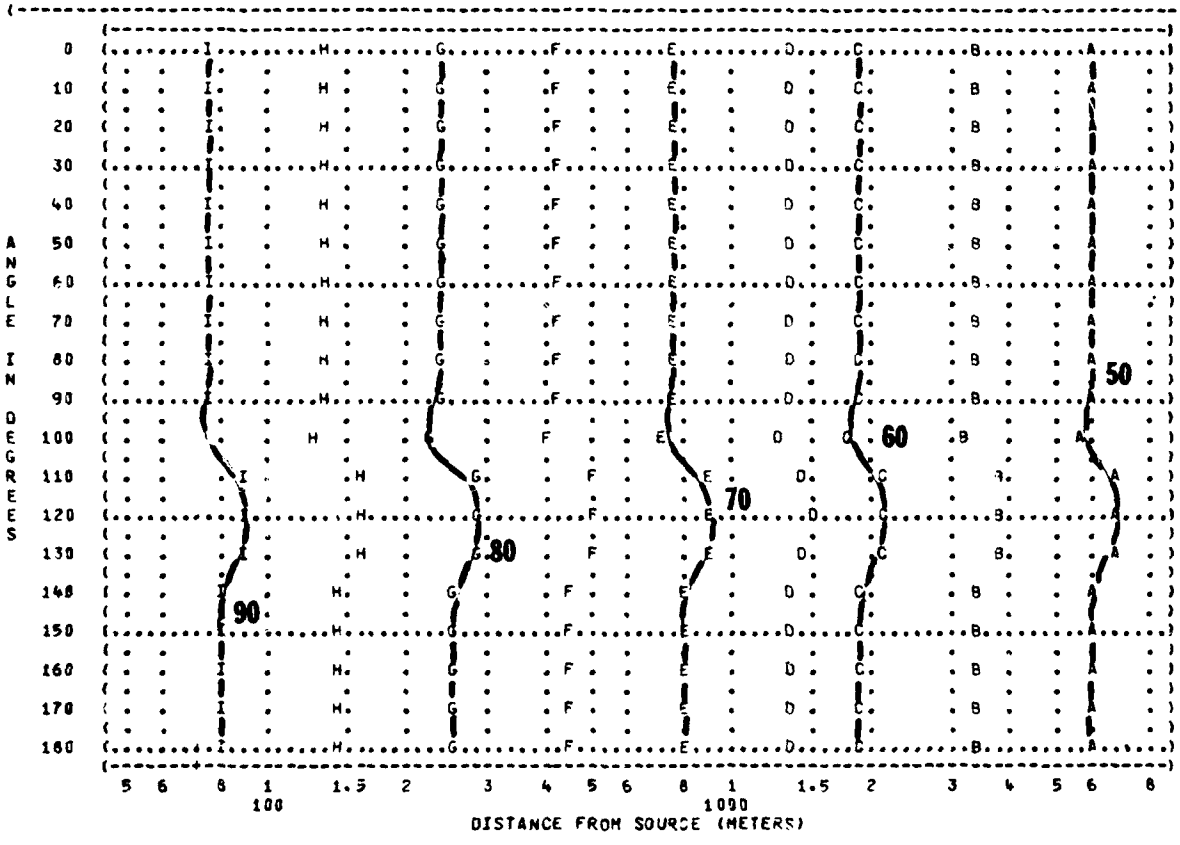


FIGURE: 14.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (94%)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 02
26 OCT 81
PAGE 13

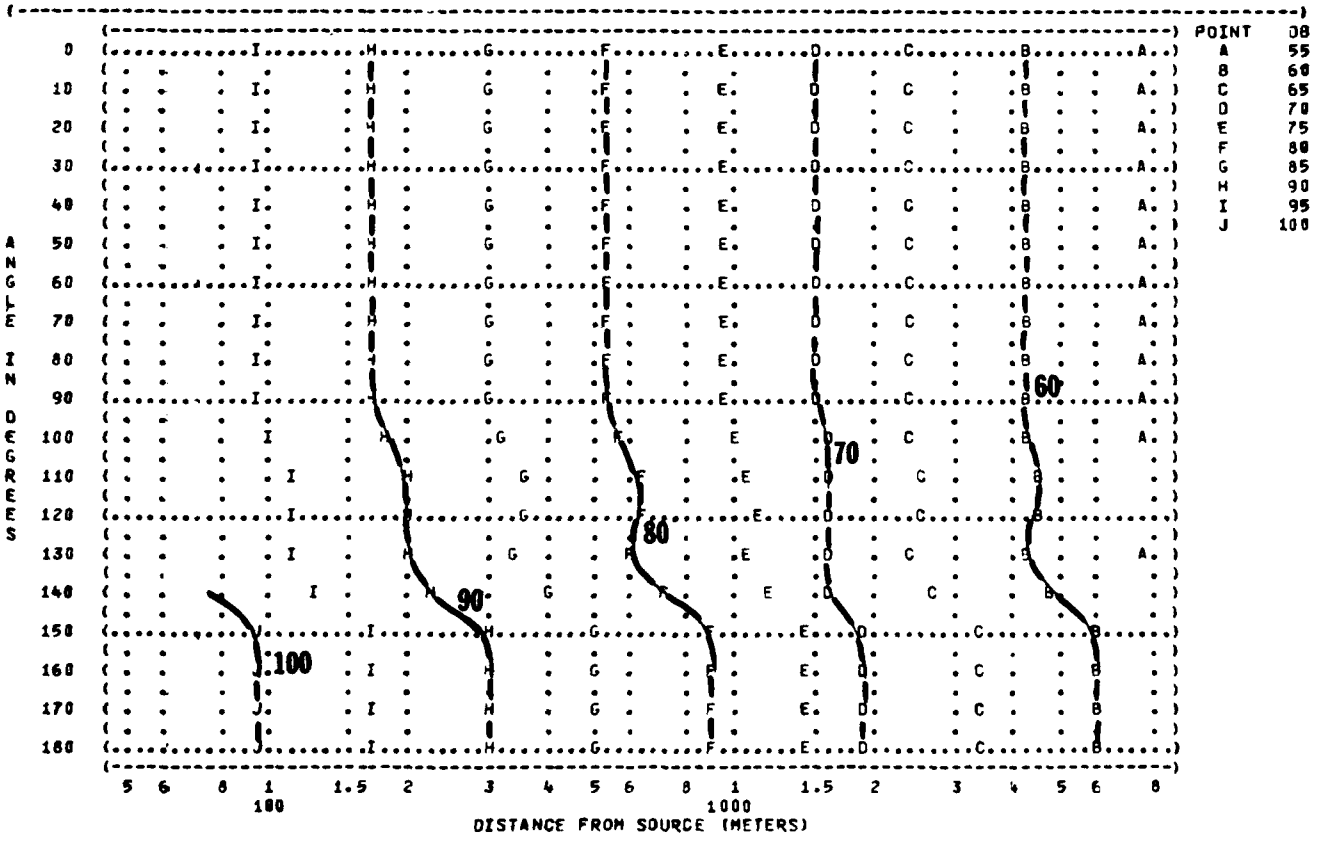


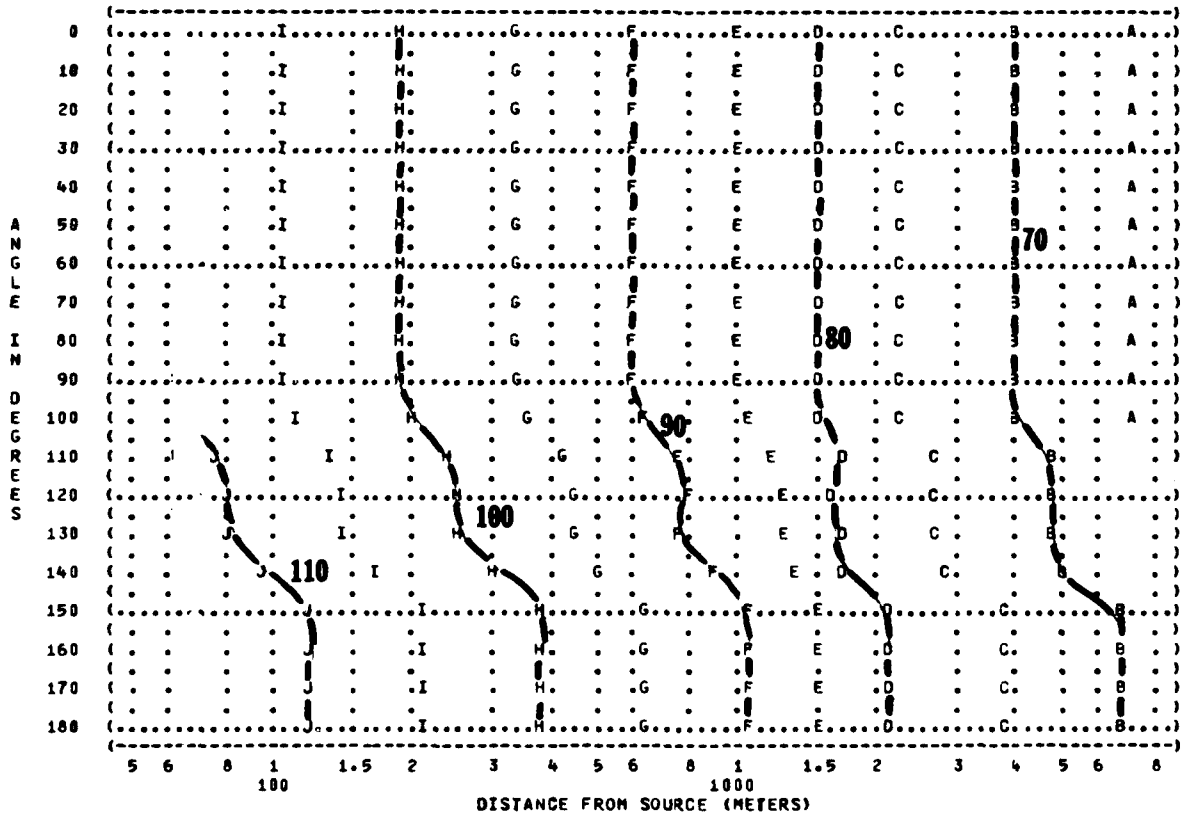
FIGURE: 14.2 OVERALL SOUND PRESSURE LEVEL (OASPL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 83
26 OCT 81
PAGE 13

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %



POINT	DB
A	65
B	70
C	75
D	80
E	85
F	90
G	95
H	100
I	105
J	110

FIGURE 14.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 01
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
TF30-P-108 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBC
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85

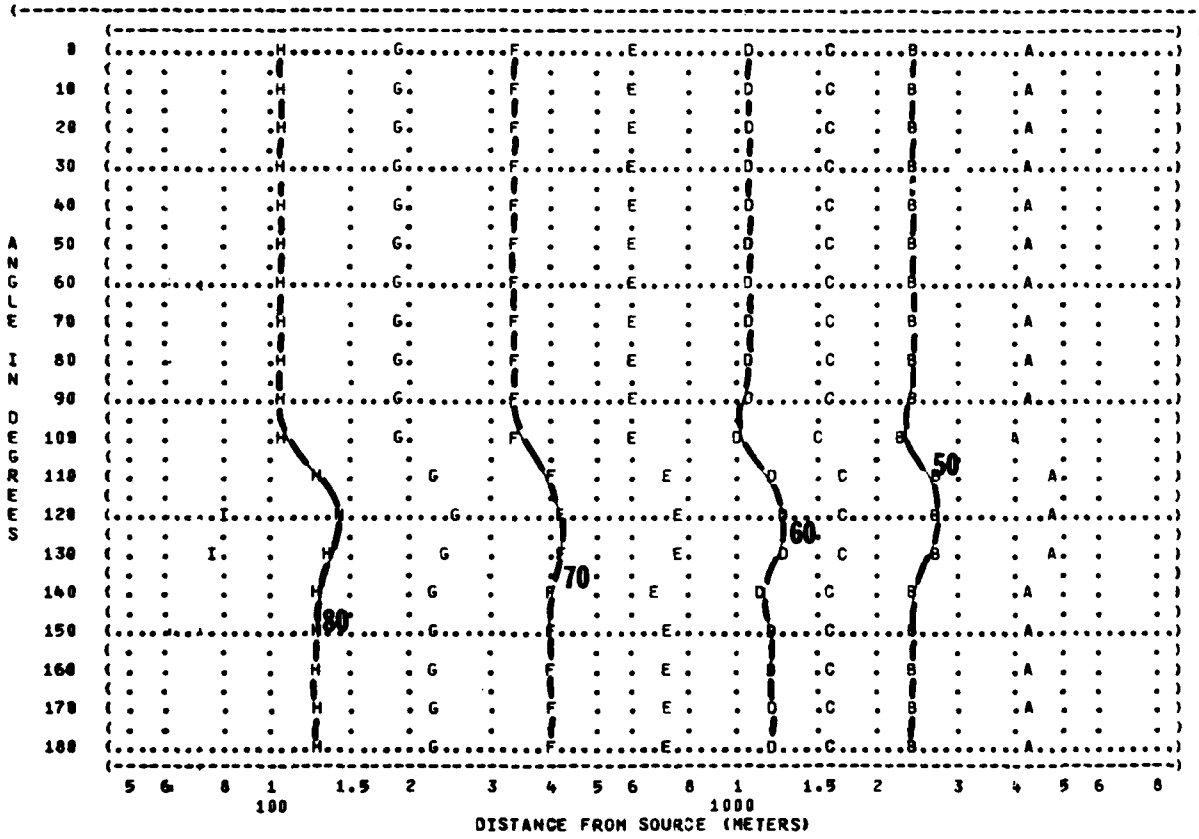


FIGURE 14.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC)
EQUAL LEVEL CONTOURS (DBC)

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-081
RUN 02
26 OCT 81
PAGE 14

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (94%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

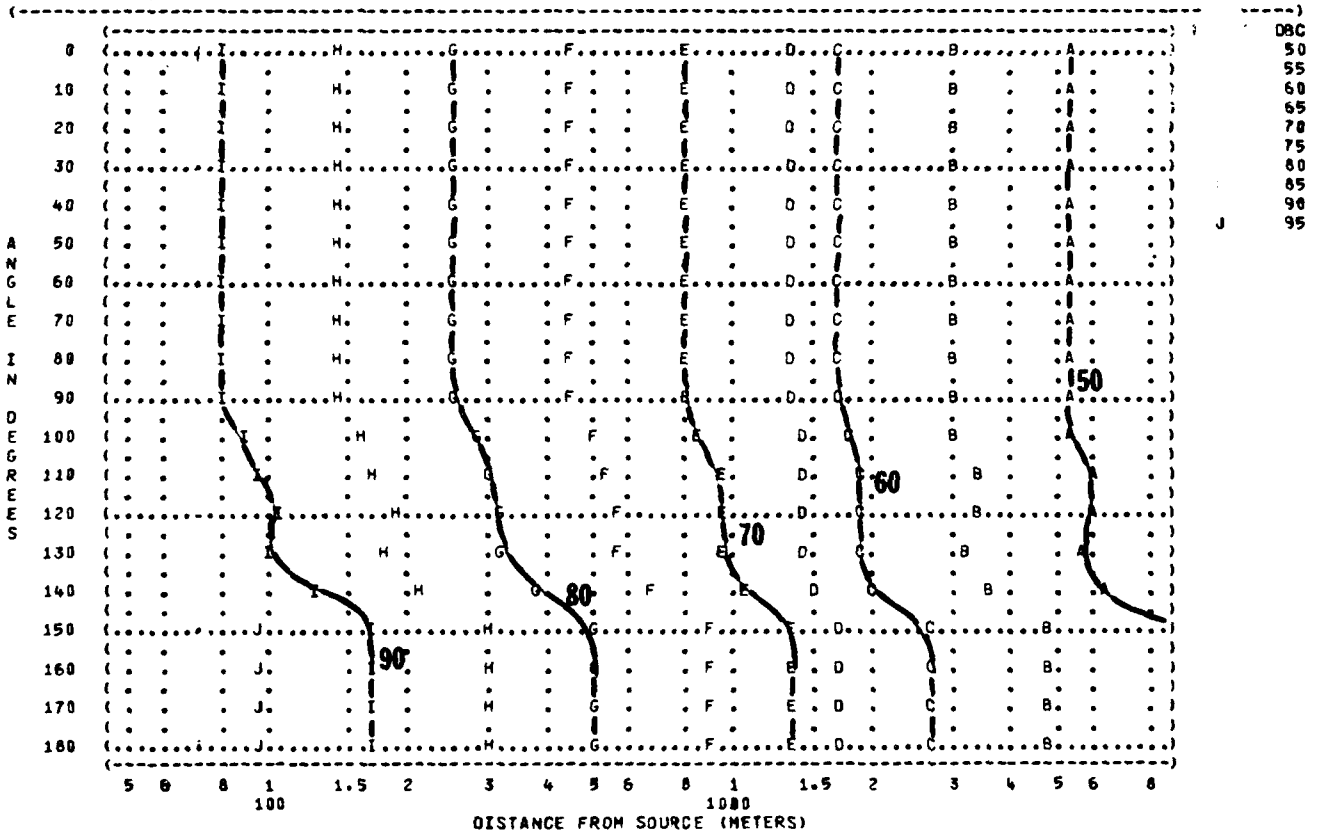


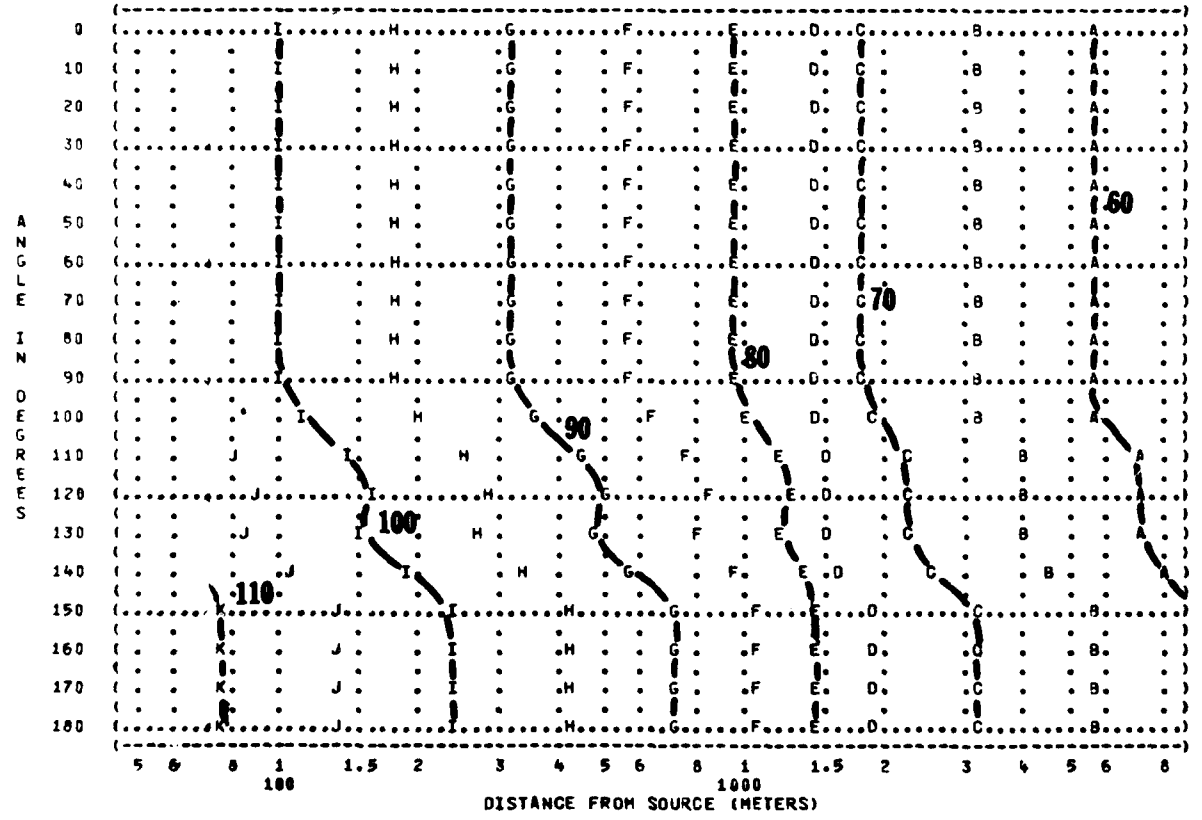
FIGURE: 14.3 C-WEIGHTED OVERALL SOUND LEVEL (OASLC) EQUAL LEVEL CONTOURS (DBC)

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 03
26 OCT 81
PAGE 14



POINT	DBC
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95
I	100
J	105
K	110

FIGURE: 14.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (OBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 01
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	OBA
A	45
B	50
C	55

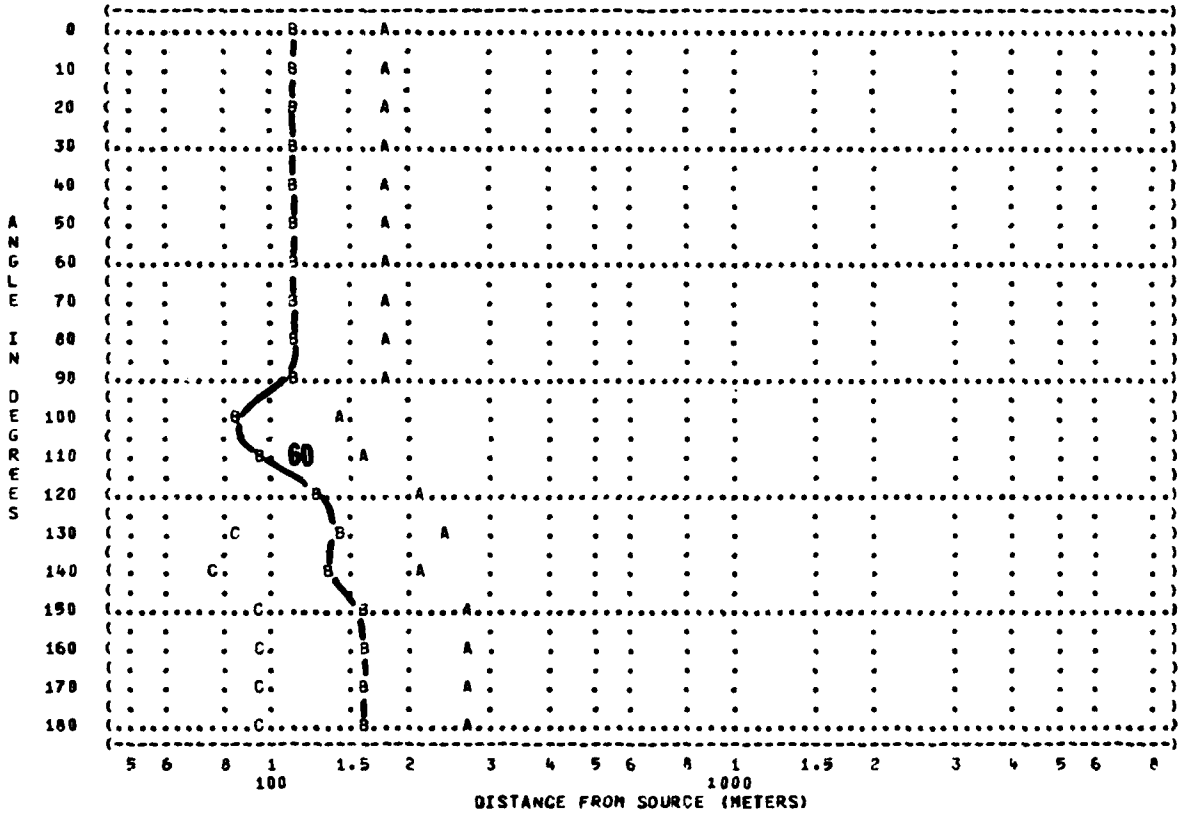


FIGURE: 14.4 A-WEIGHTED OVERALL SOUND LEVEL (OASLA) EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-718-001
RUN 02
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
TF30-P-108 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

OPERATION:
MILITARY POWER (94%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70

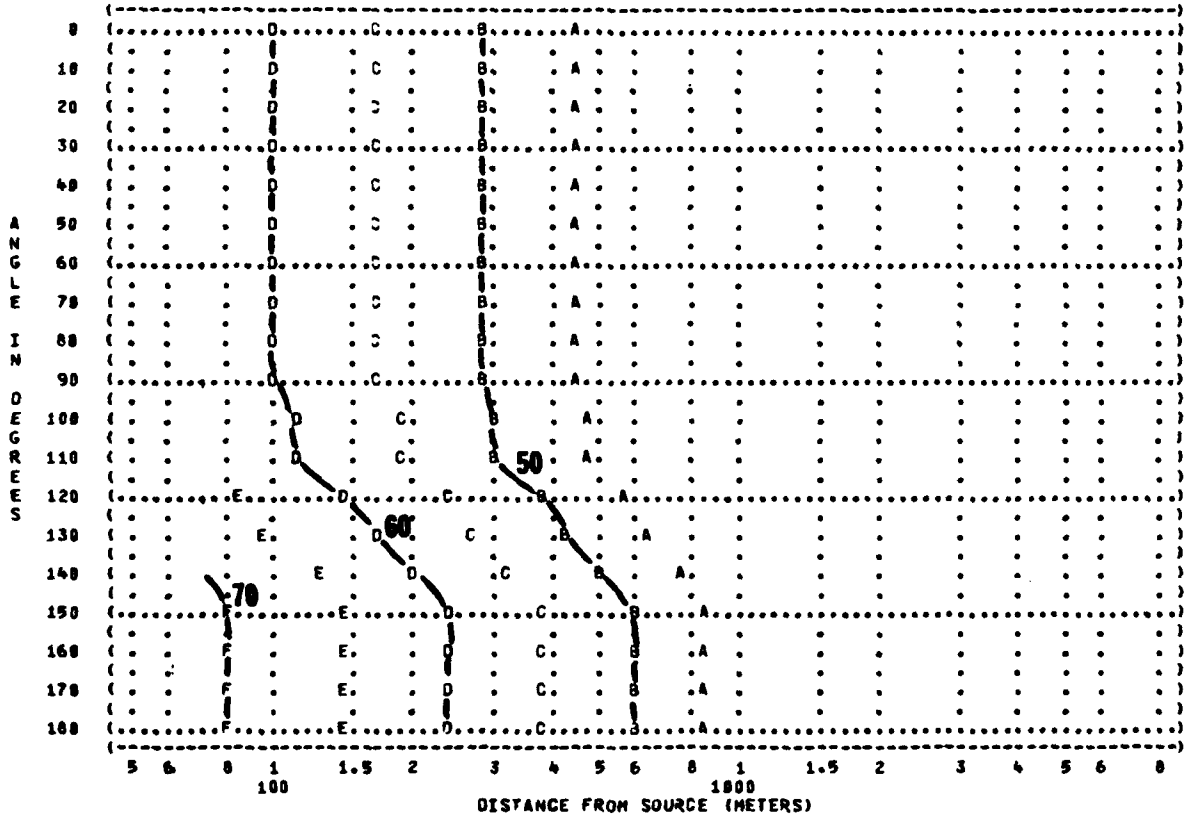


FIGURE: A-WEIGHTED OVERALL SOUND LEVEL (OASLA)
14.4 EQUAL LEVEL CONTOURS (DBA)

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 03
26 OCT 81
PAGE 15

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DBA
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80

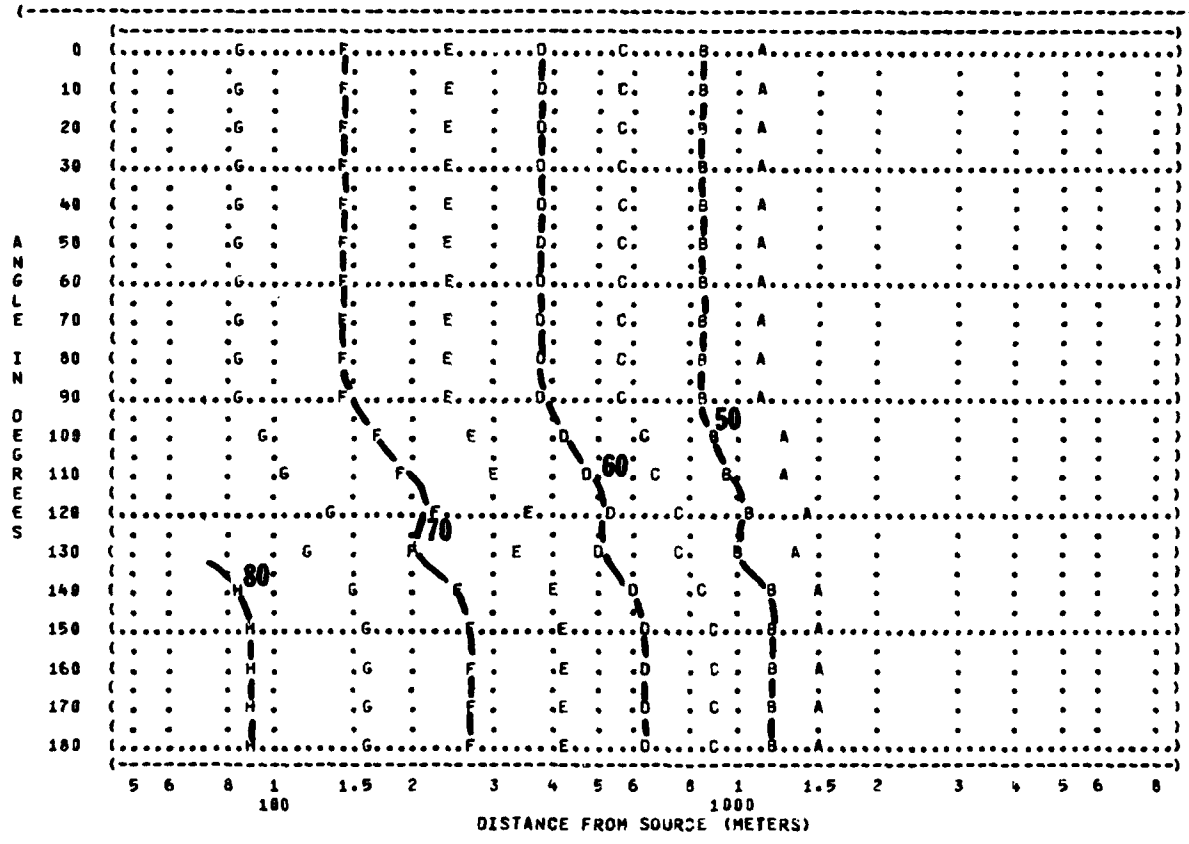


FIGURE: 14.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-71d-001
RUN 01
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70

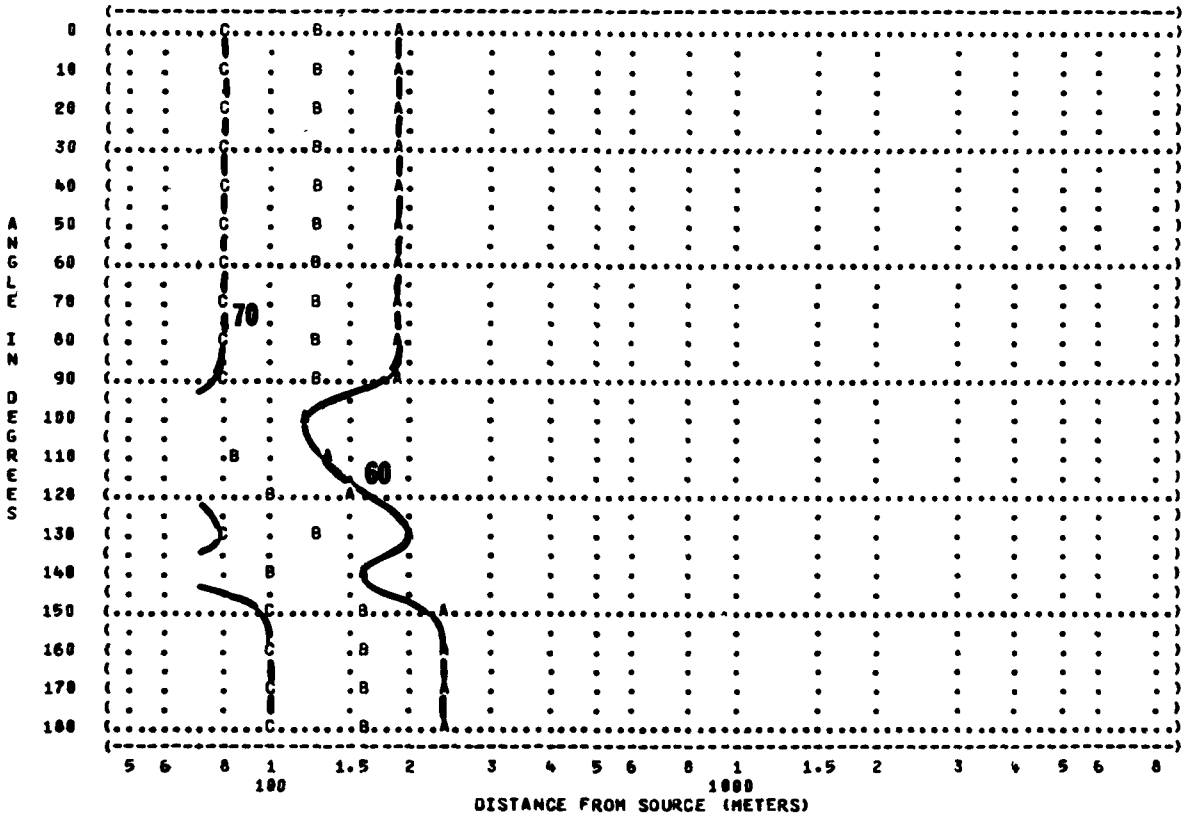


FIGURE 14.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION: OMEGA 1.4 TEST BF-718-001 RUN 02 26 OCT 81 PAGE 16

NOISE SOURCE/SUBJECT: TF30-P-10B ENGINE IN THE TEXAS A&M HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

OPERATION: MILITARY POWER (94%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS A&E HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85

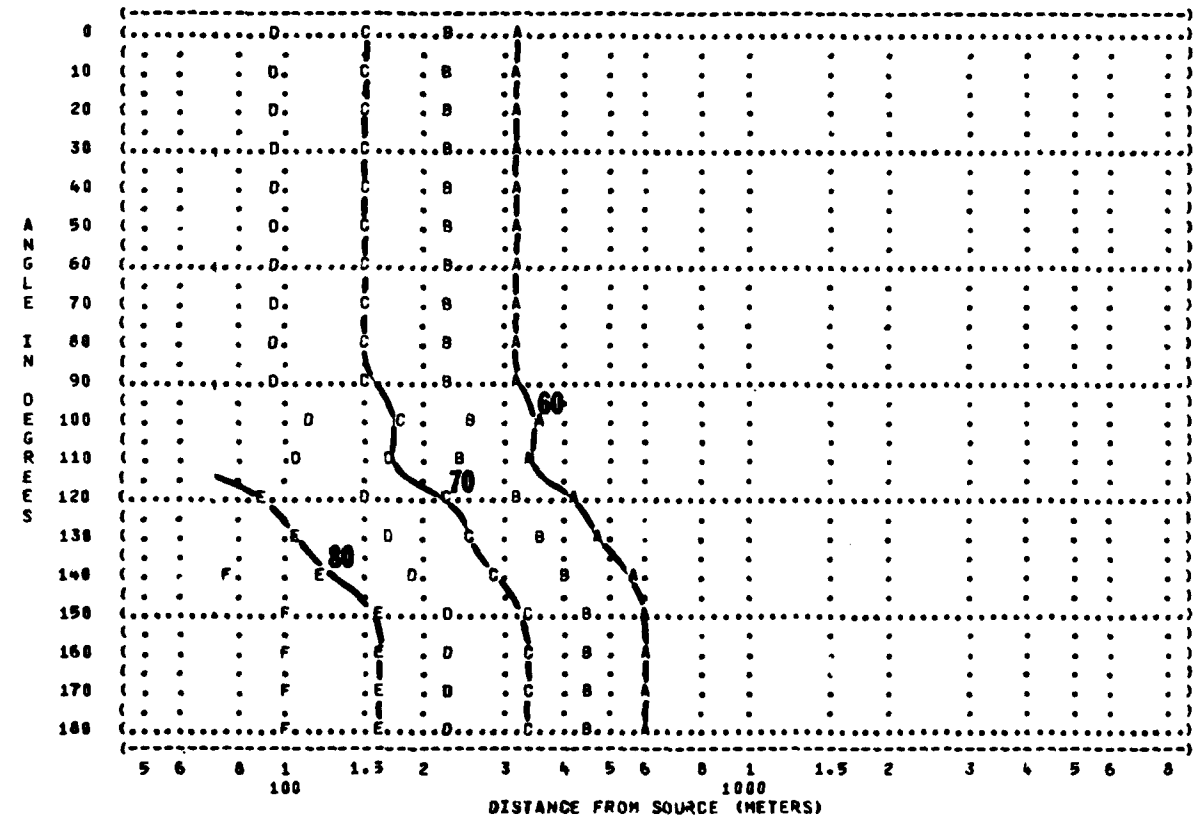


FIGURE: 14.5 PERCEIVED NOISE LEVEL, TONE CORRECTED (PNLT) EQUAL LEVEL CONTOURS (PNDB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 03
26 OCT 81
PAGE 16

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	PNDB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95
I	100

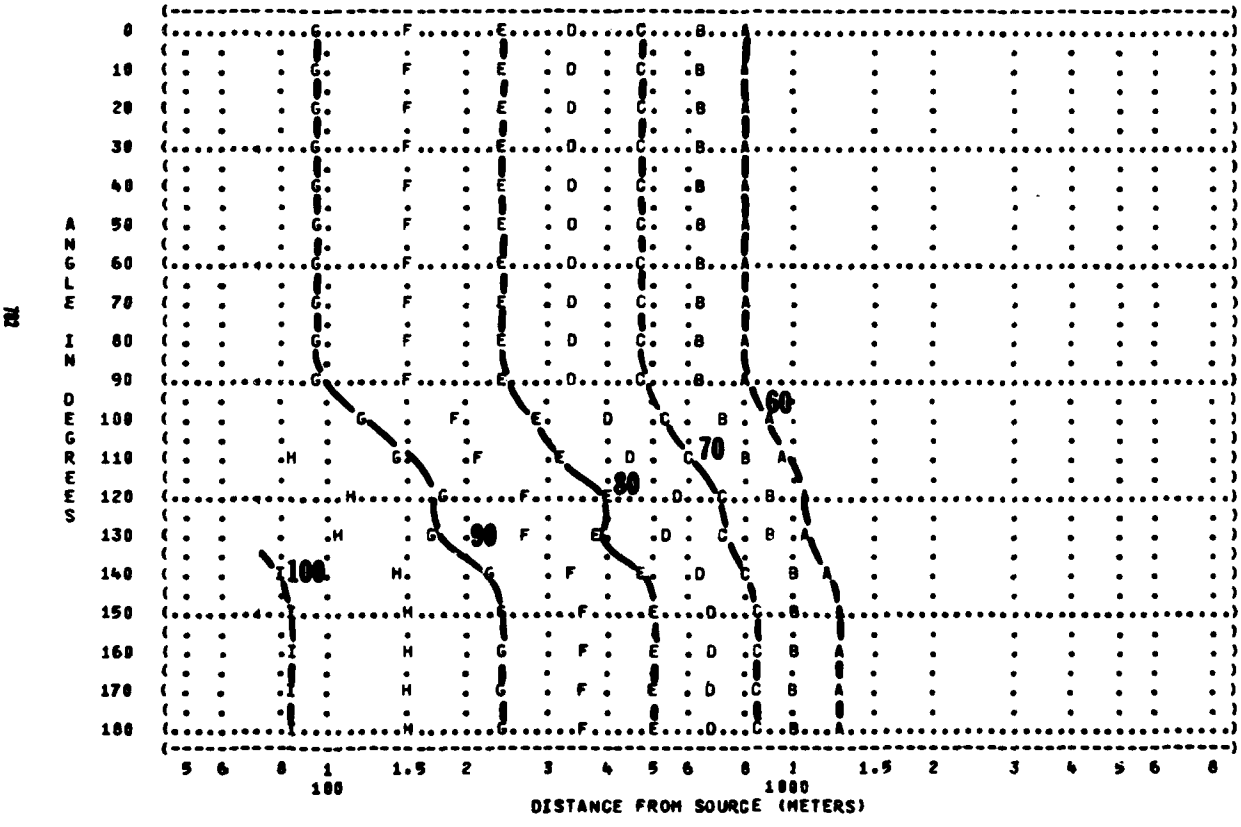


FIGURE: 14.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-081
RUN 81
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50

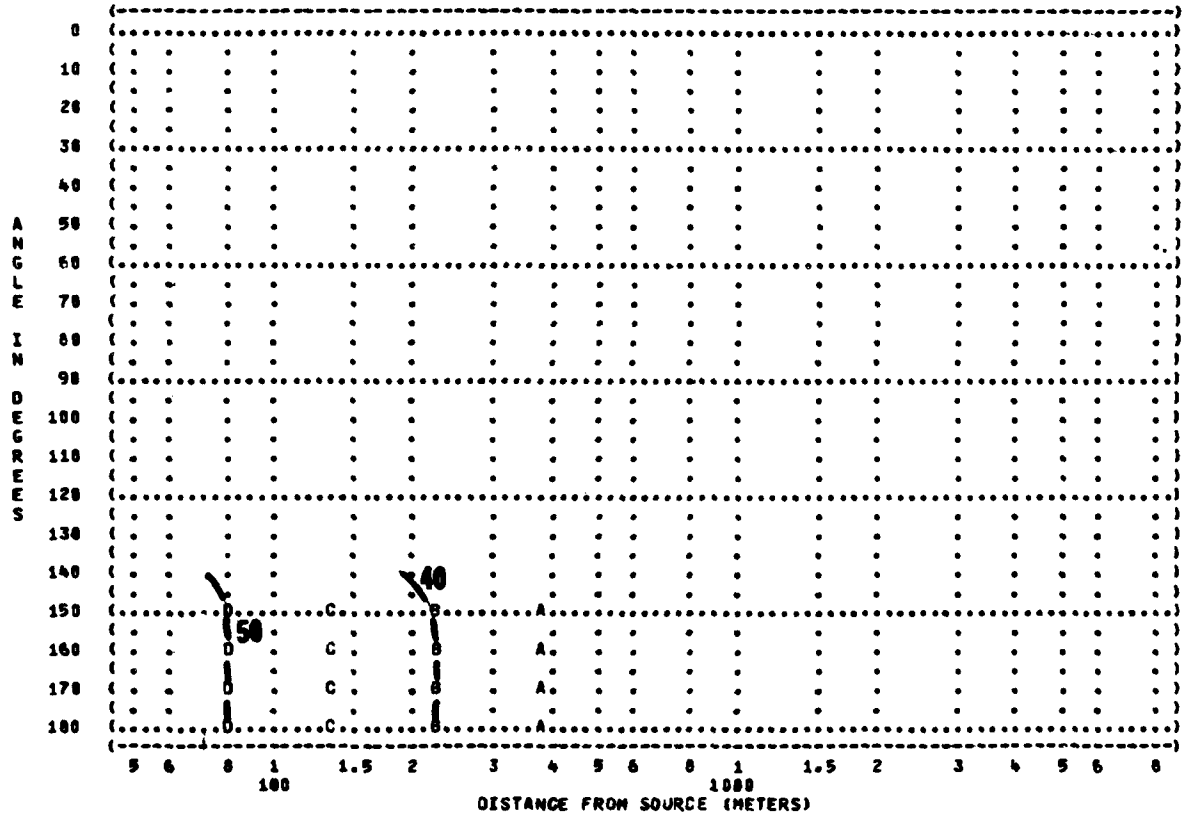


FIGURE 14.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (DB)

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 02
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (94%)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M MG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

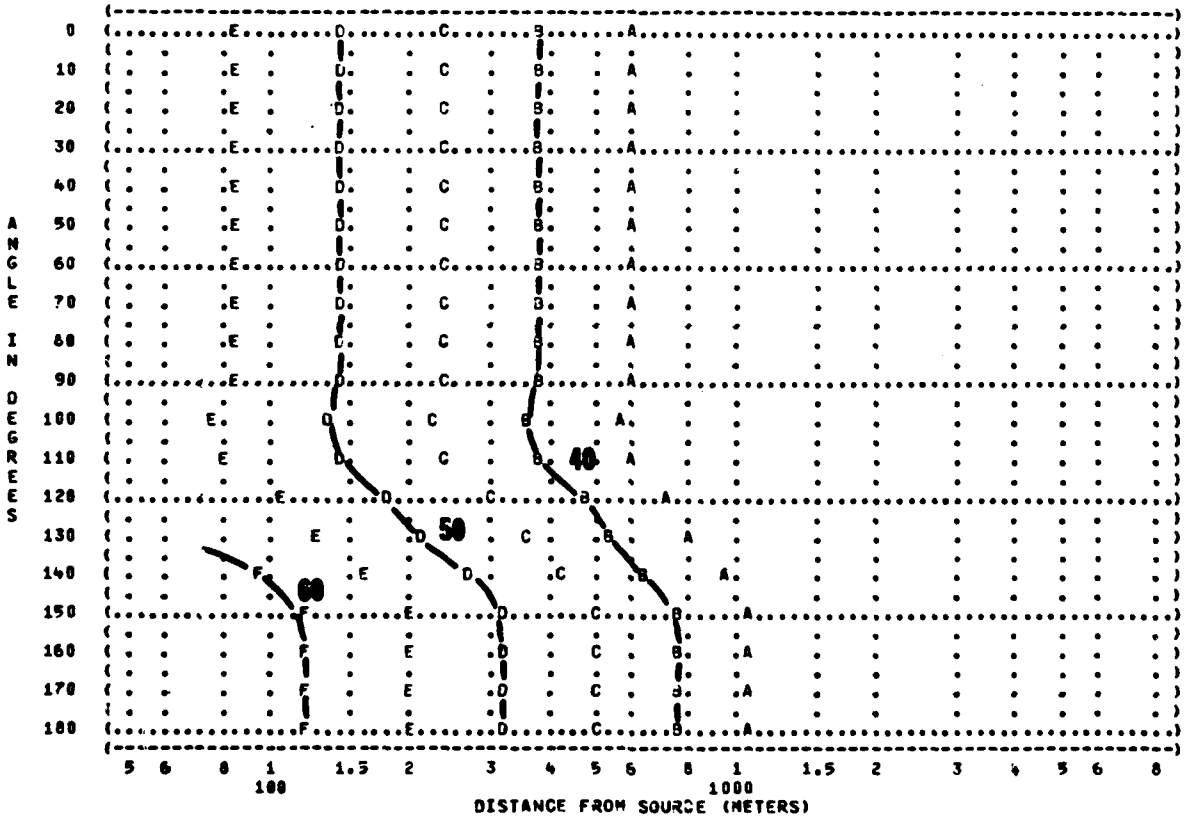


FIGURE: 14.6 PREFERRED SPEECH INTERFERENCE LEVEL (PSIL) EQUAL LEVEL CONTOURS (C3)

IDENTIFICATION:
OMEGA 1.4
TEST 8F-719-001
RUN 03
26 OCT 81
PAGE 17

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

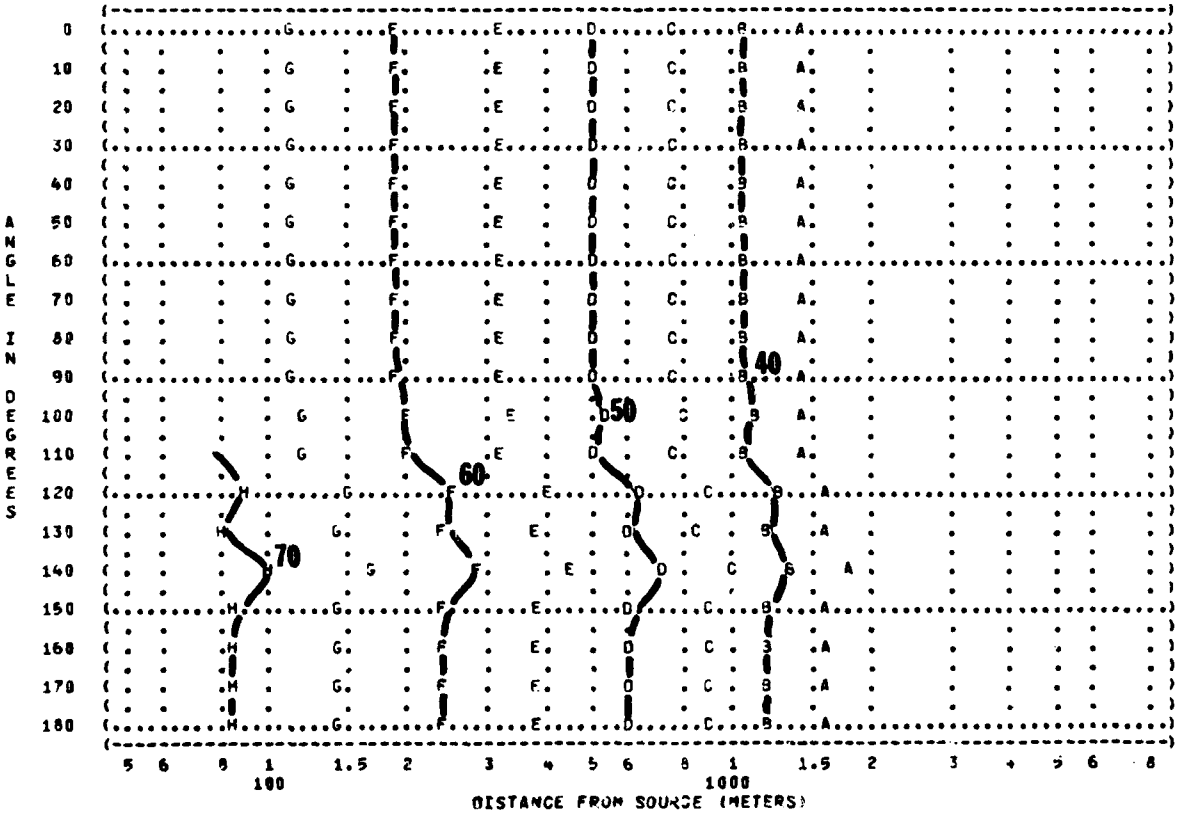


FIGURE 14.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73) EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 01
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C, BAR PRESS = .760 M HG, REL HUMID = 70 %

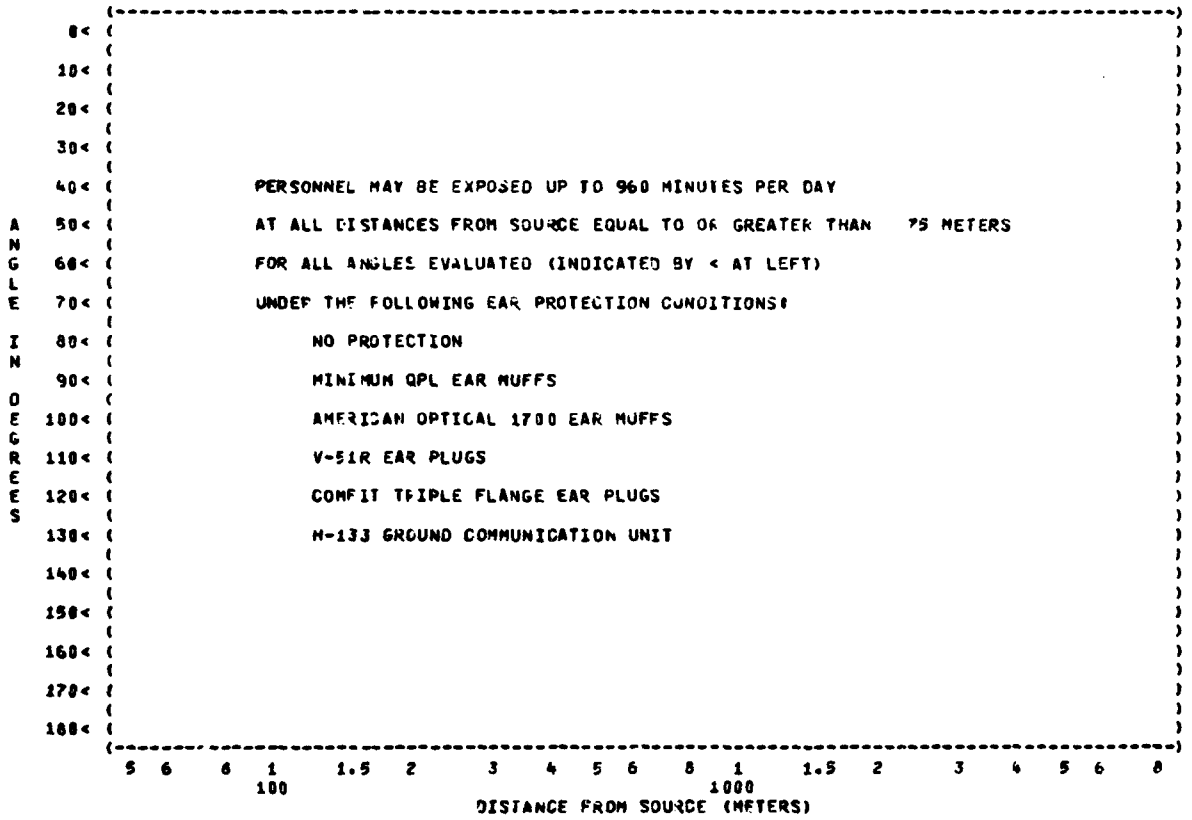


FIGURE 14.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST 9F-718-001
RUN 02
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (94%)
SINGLE ENGINE
GROUND RUNUP IN THE
TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

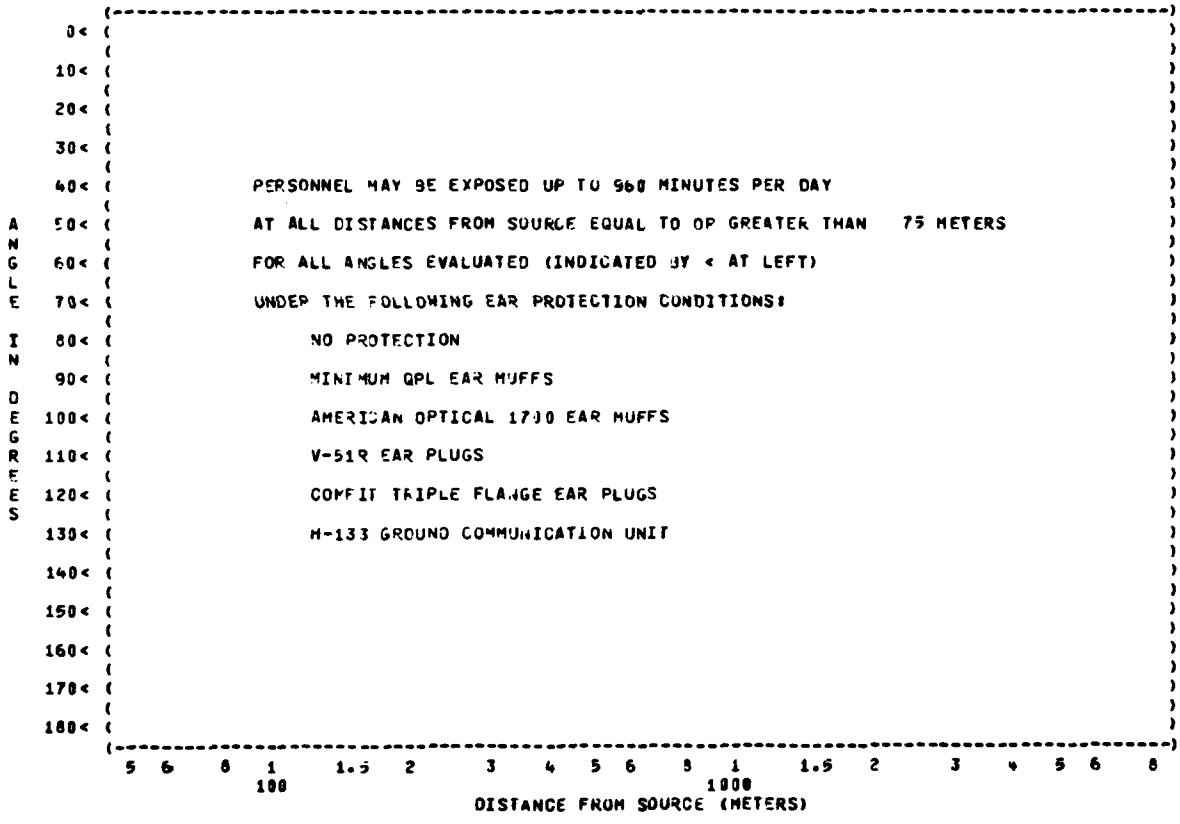


FIGURE: 14.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)
NO PROTECTION

IDENTIFICATION:
OMEGA 1.4
TEST 8F-718-001
RUN 03
26 OCT 81
PAGE 7

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	MIN
A	960

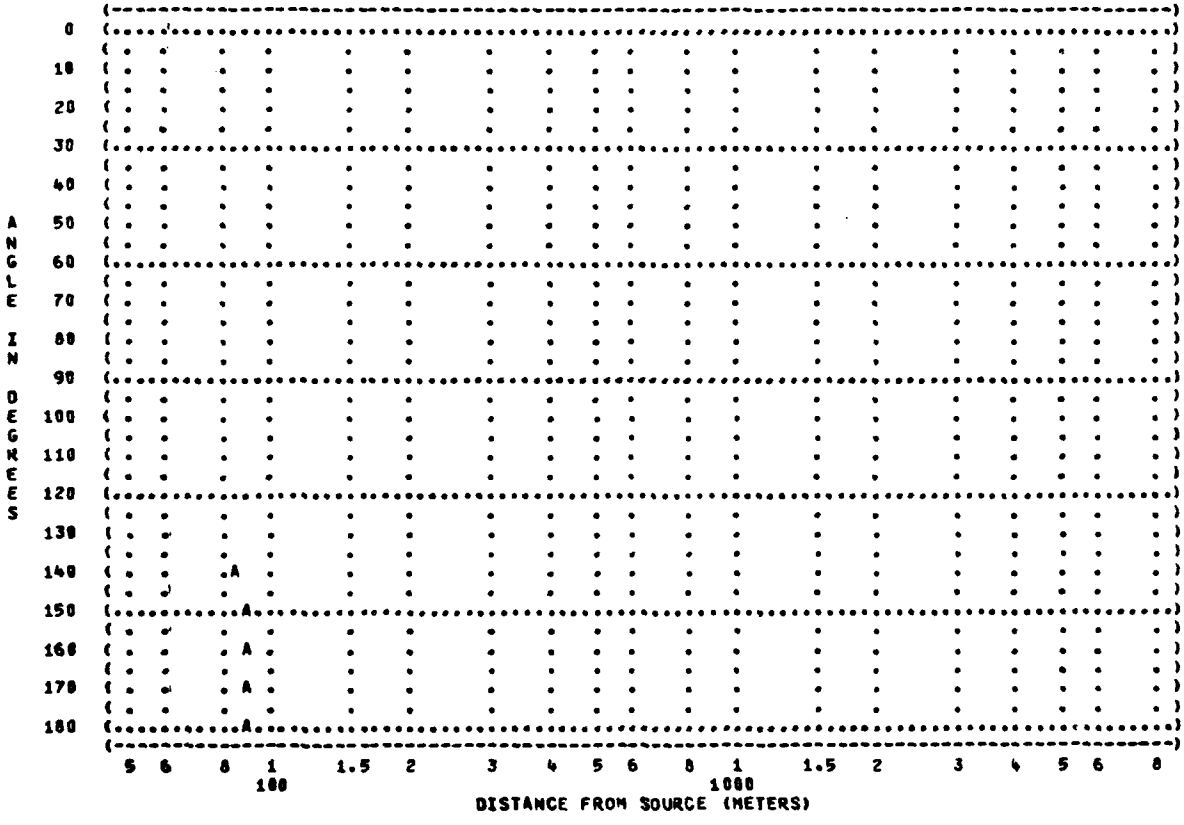


FIGURE 14.7 MAXIMUM PERMISSIBLE TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, JULY 73)
EQUAL TIME CONTOURS (MINUTES)

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 03
26 OCT 81
PAGE 8

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

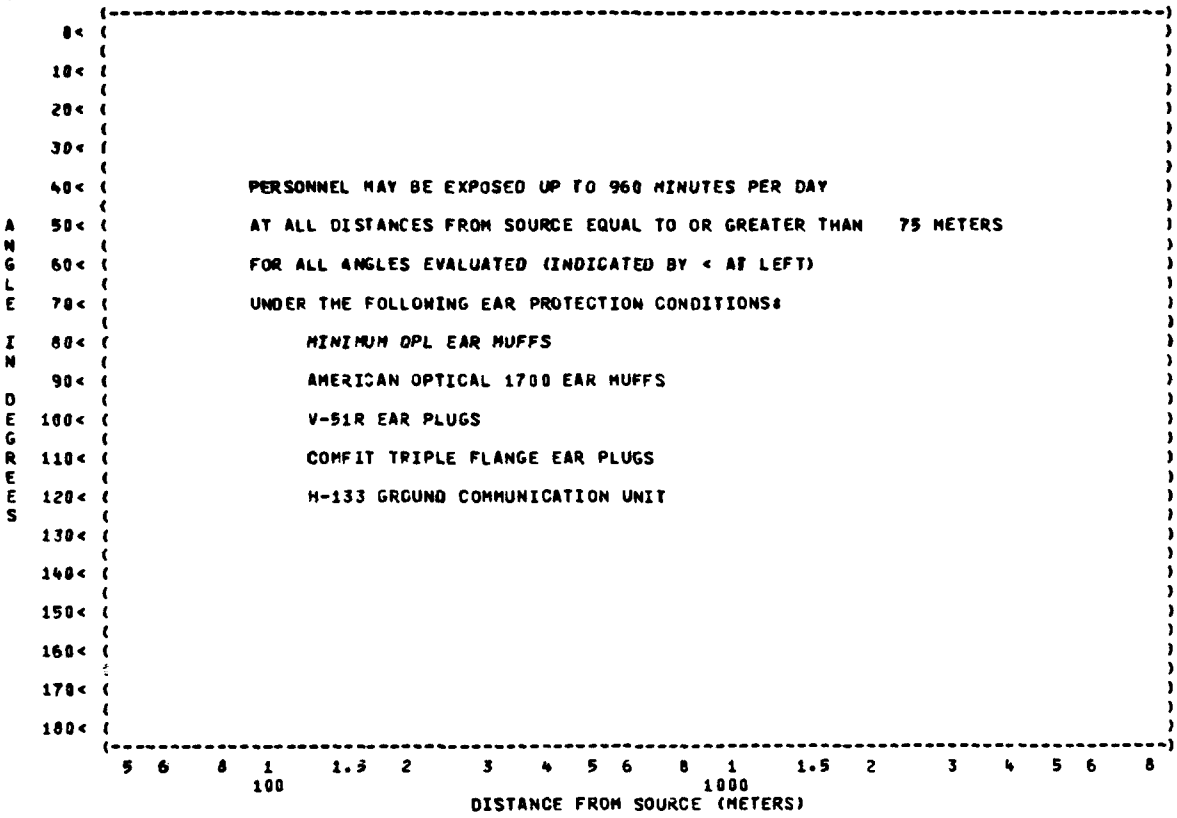


FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-710-001
RUN 01
26 OCT 81
PAGE 18

POINT	DB
A	50
B	55
C	60
D	65
E	70
F	75
G	80
H	85
I	90

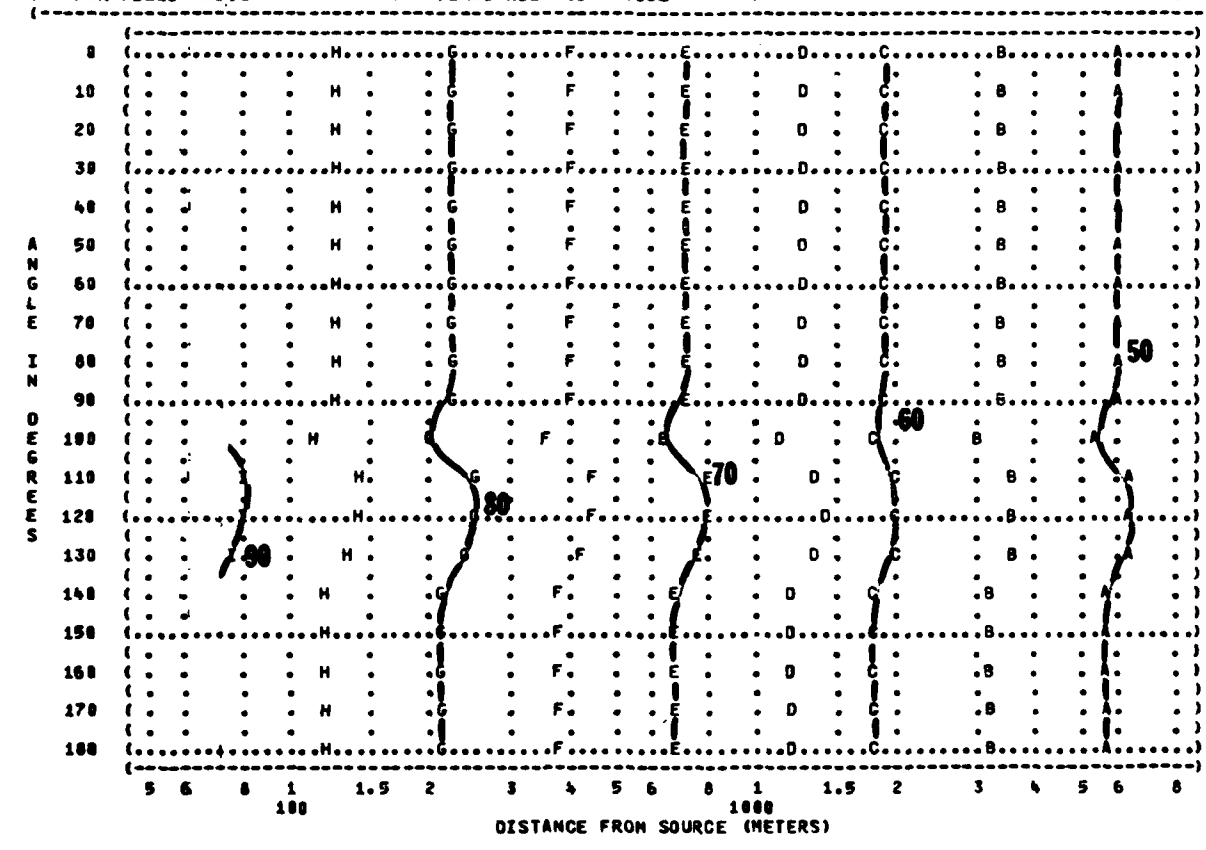


FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST 9F-718-001
RUN 01
26 OCT 91
PAGE 19

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

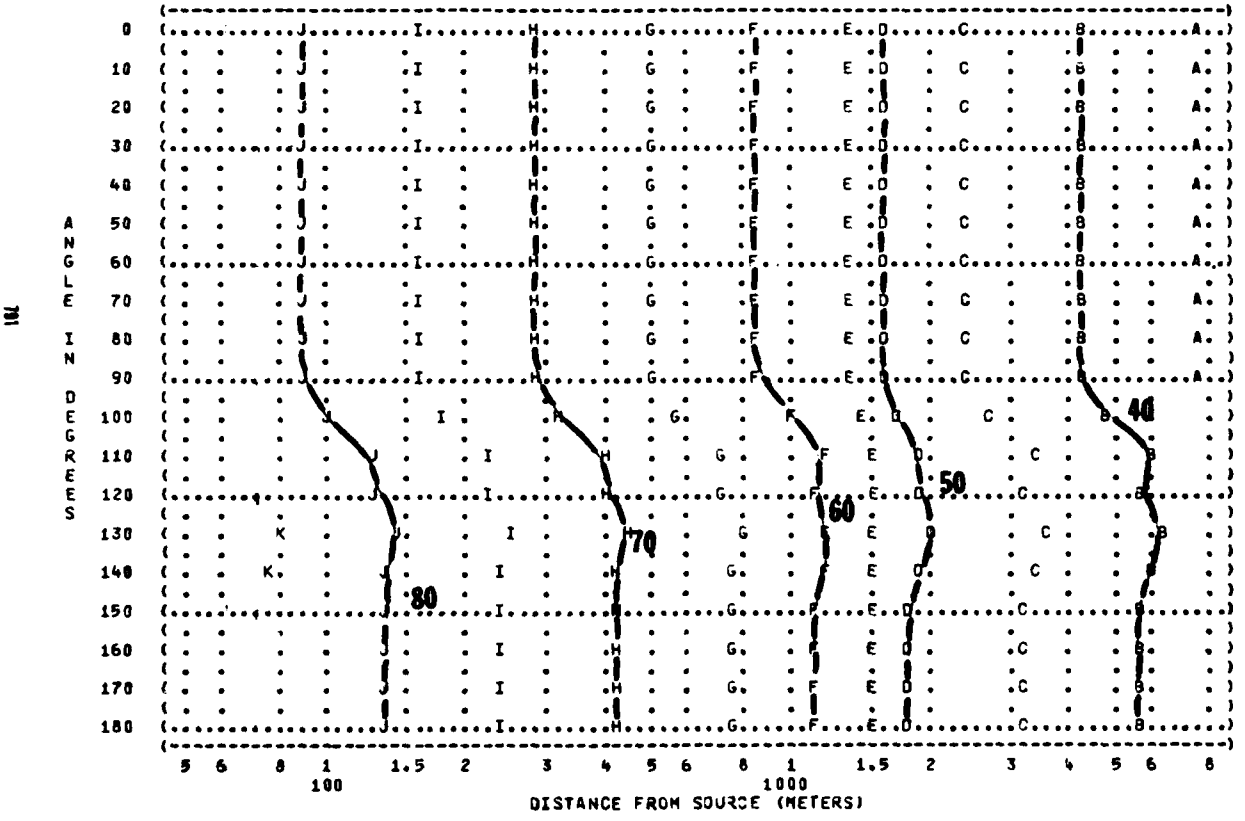


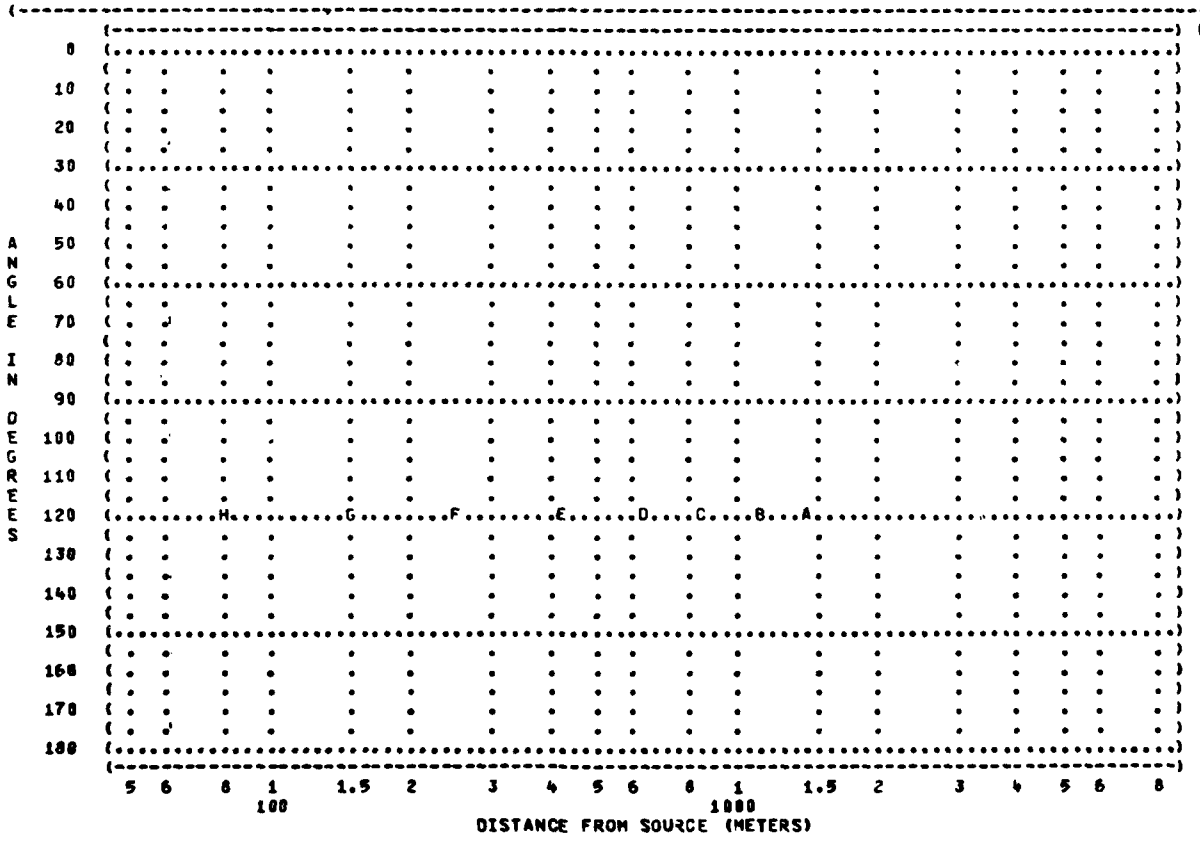
FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-718-001 RUN 01 26 OCT 81 PAGE 20

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

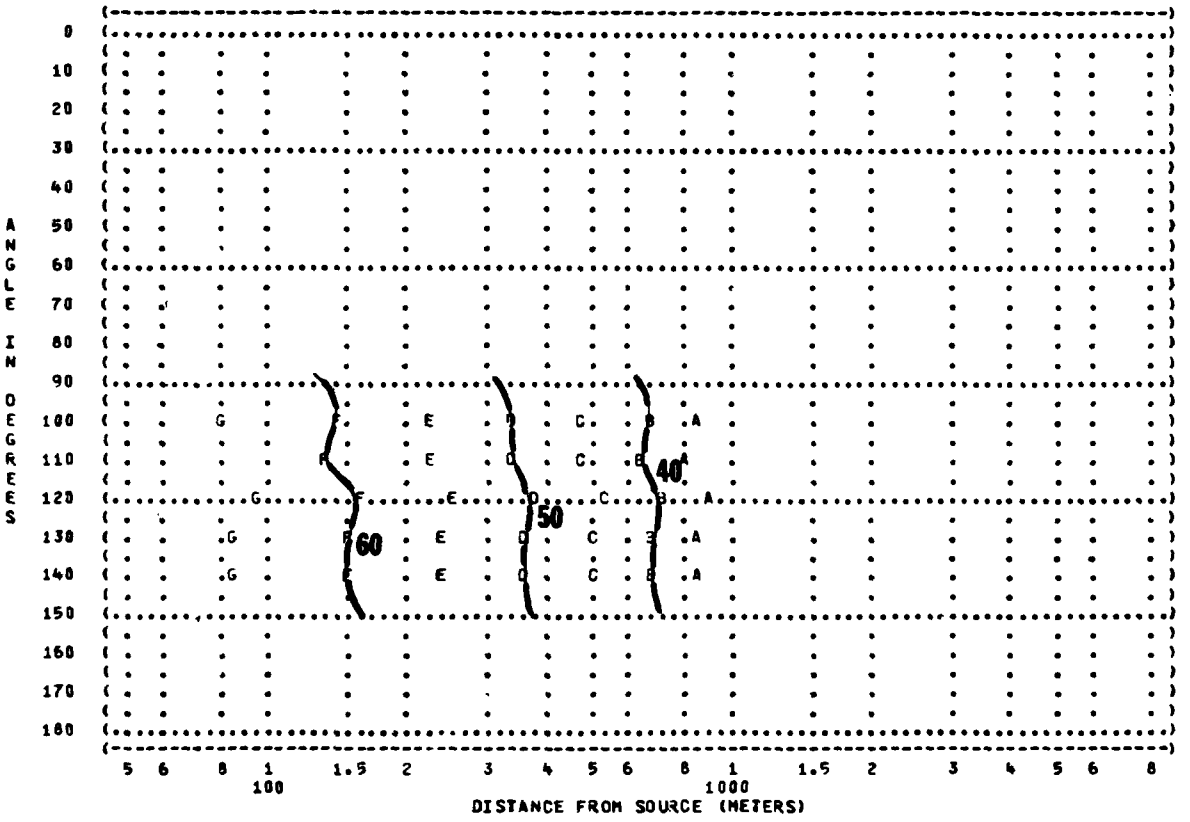
FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-718-001 RUN 01 26 OCT 81 PAGE 21



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-718-001 RUN 01 26 OCT 81 PAGE 22

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASF HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

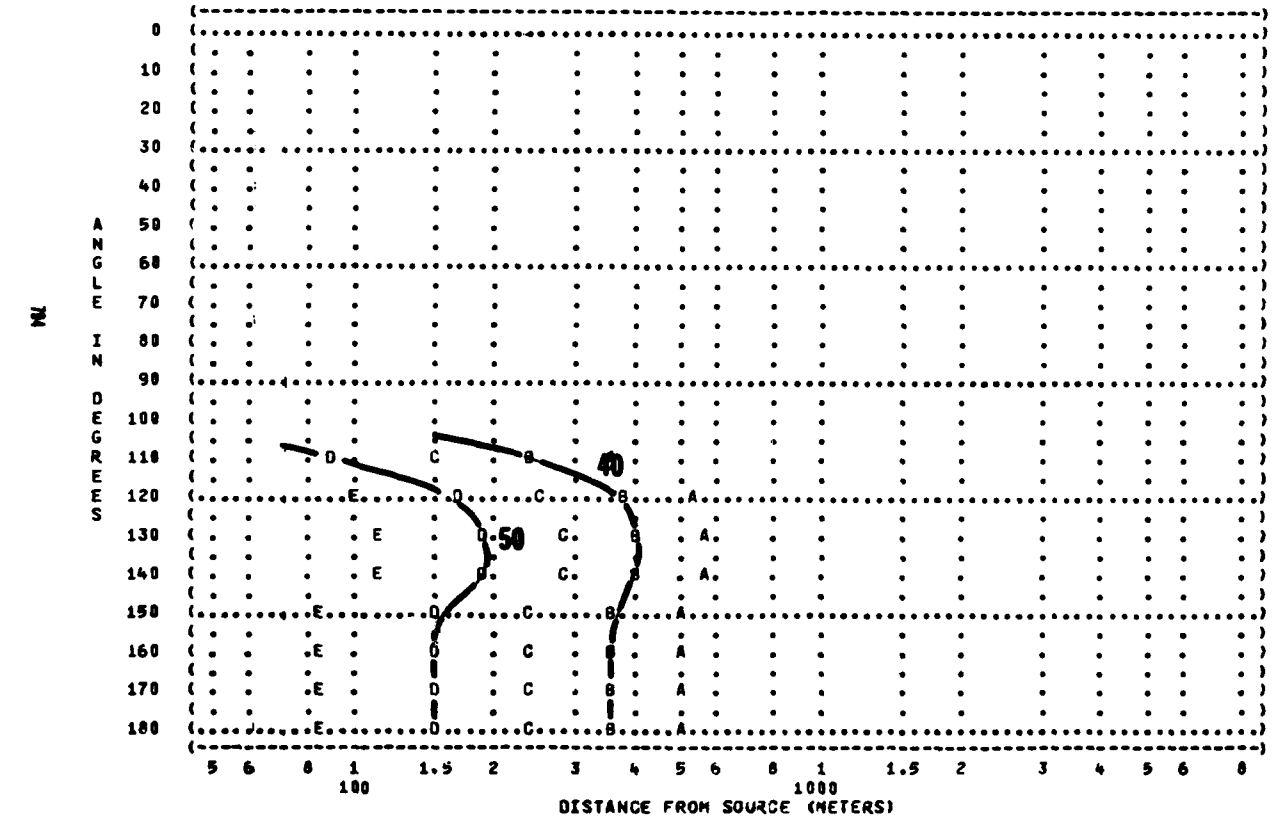


FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C; BAR PRESS = .768 M HG; REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4; TEST BF-718-001; RUN 01; 26 OCT 81; PAGE 23

POINT	DB
A	35
B	40
C	45
D	50

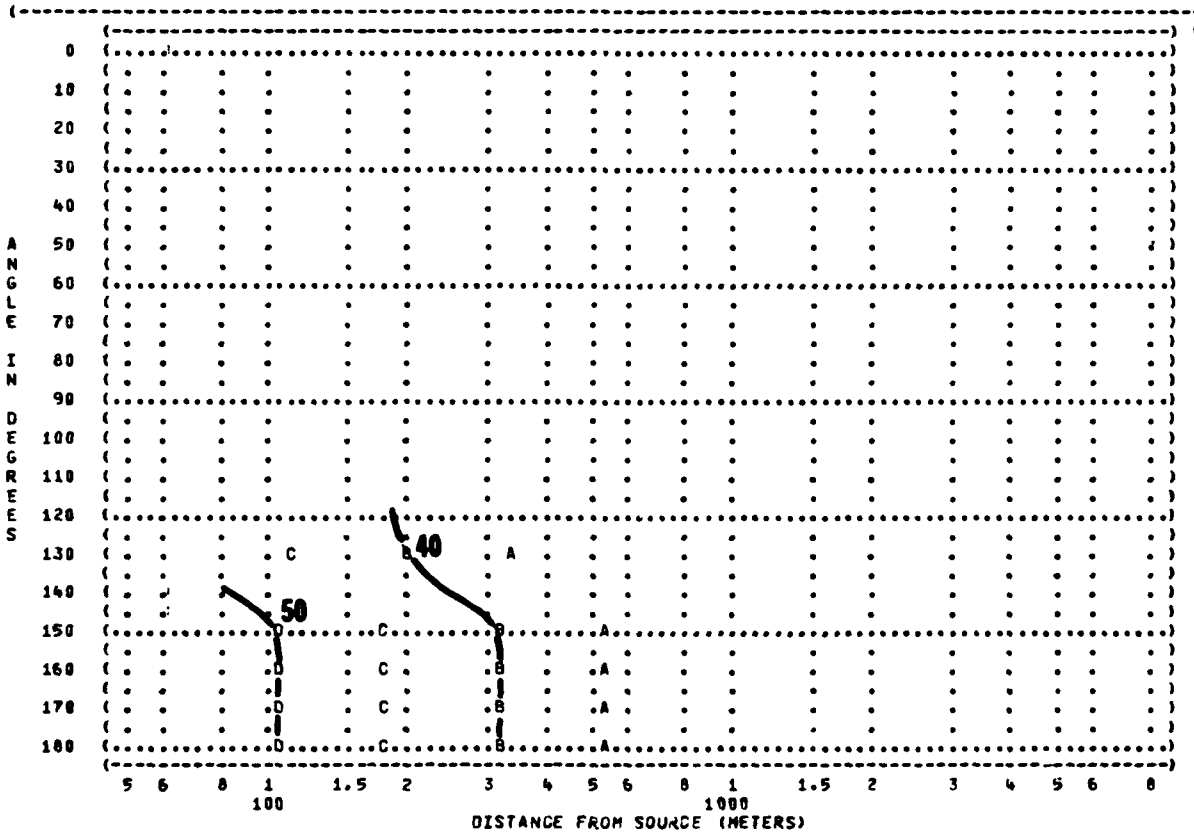


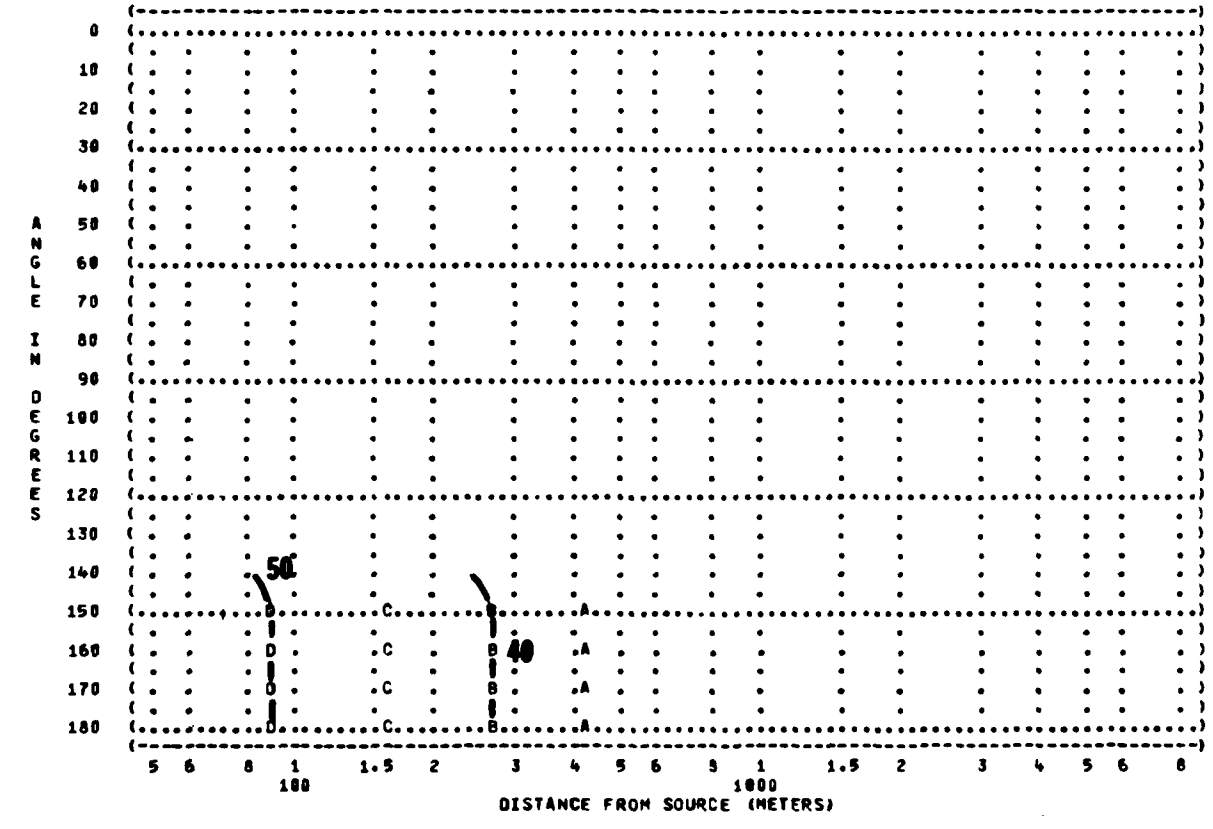
FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C, BAR PRESS = .760 M HG, REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4, TEST BF-718-001, RUN 01, 26 OCT 81, PAGE 24



POINT	DB
A	35
B	40
C	45
D	50

FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-718-001 RUN 01 26 OCT 81 PAGE 25

POINT	DB
A	35
B	40
C	45

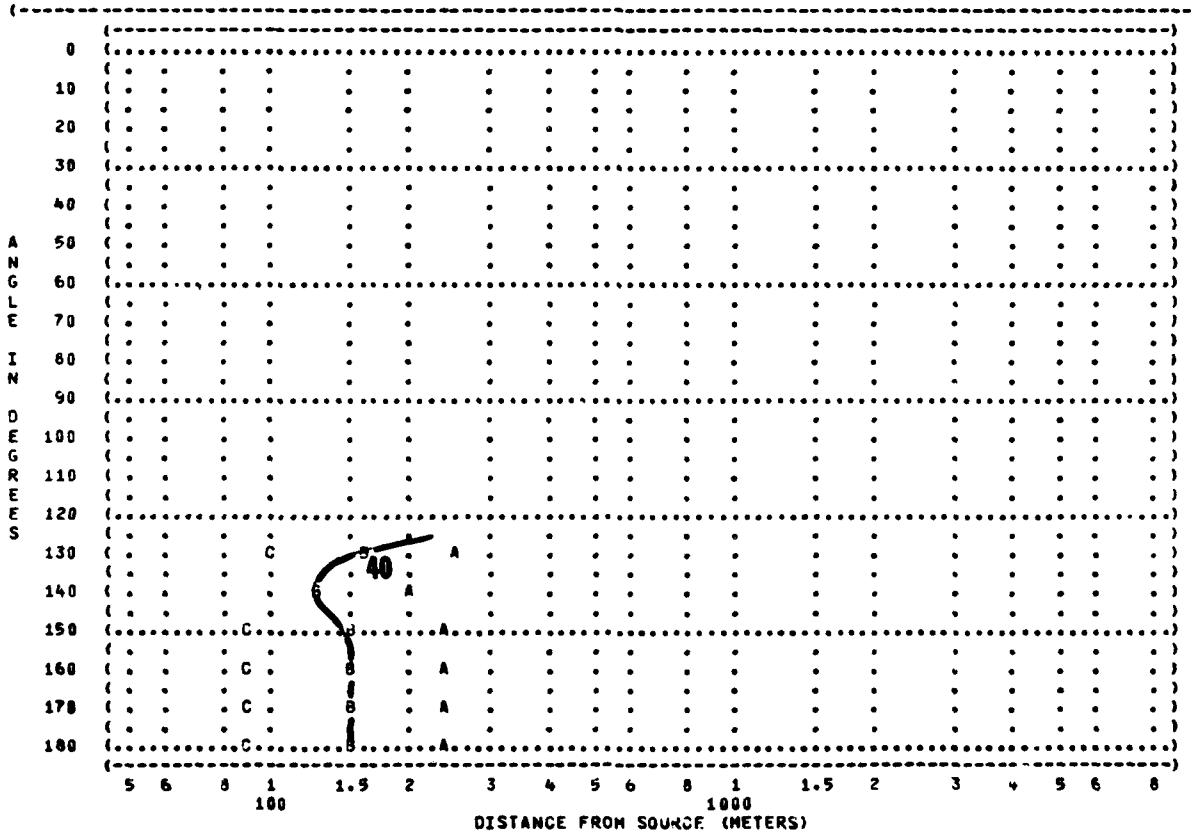


FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-718-001 RUN 01 26 OCT 81 PAGE 26

POINT	DB
A	35
B	40
C	45
D	50

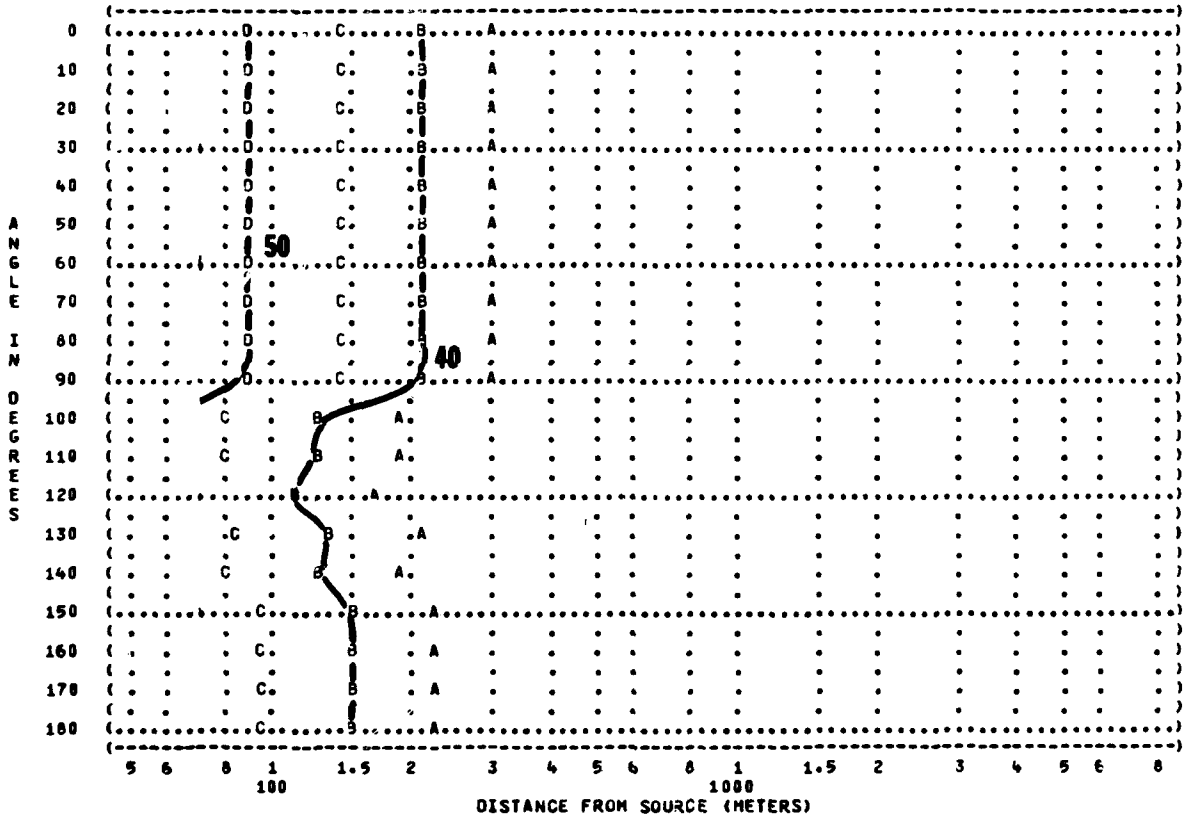


FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 01
26 OCT 81
PAGE 27

POINT	DB
A	35
B	40
C	45

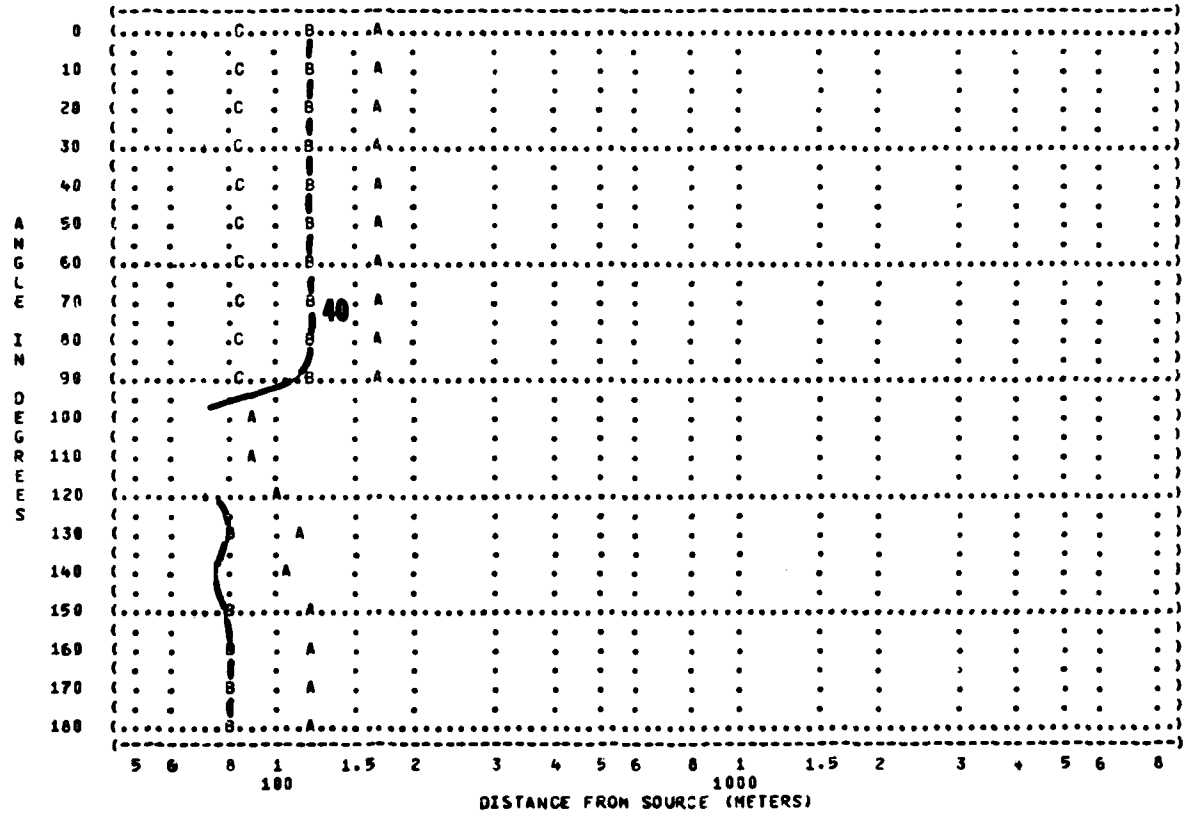


FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

OPERATION: MILITARY POWER (94%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-718-001 RUN 02 26 OCT 81 PAGE 16

POINT	DB
A	55
B	60
C	65
D	70
E	75
F	80
G	85
H	90
I	95

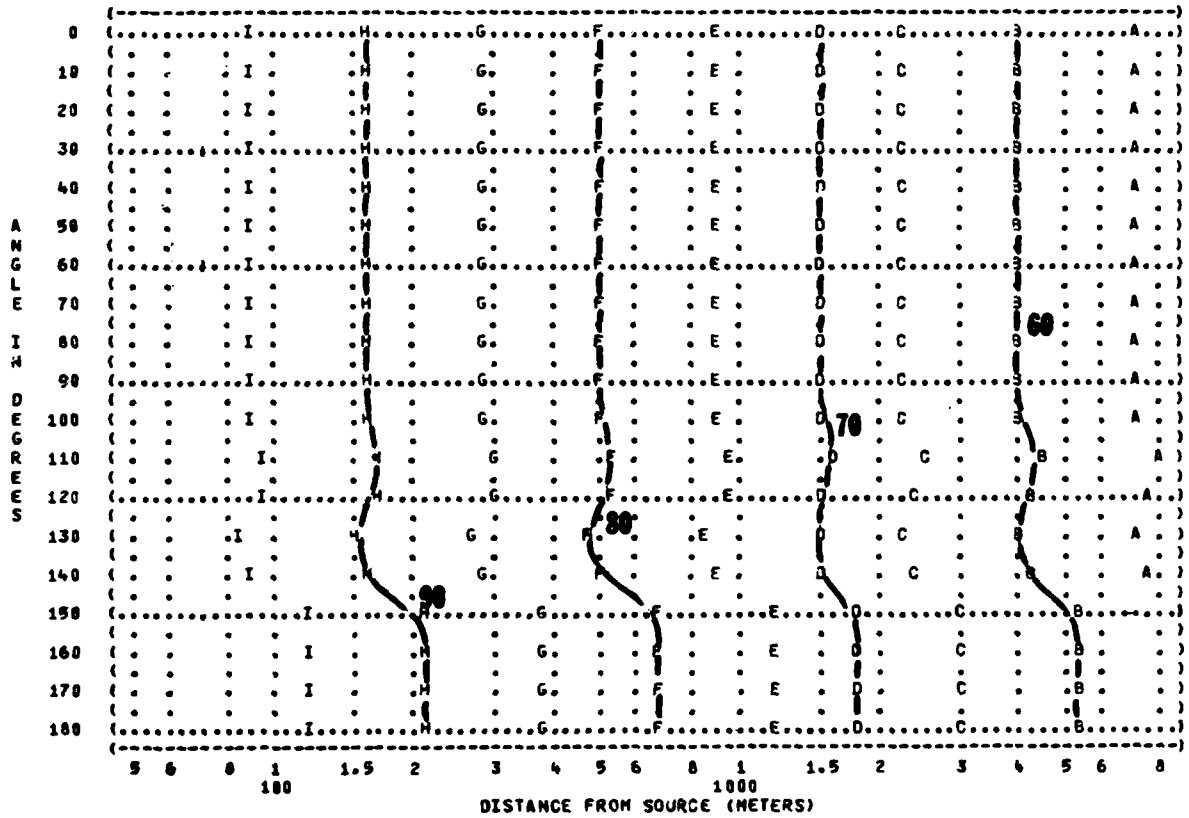


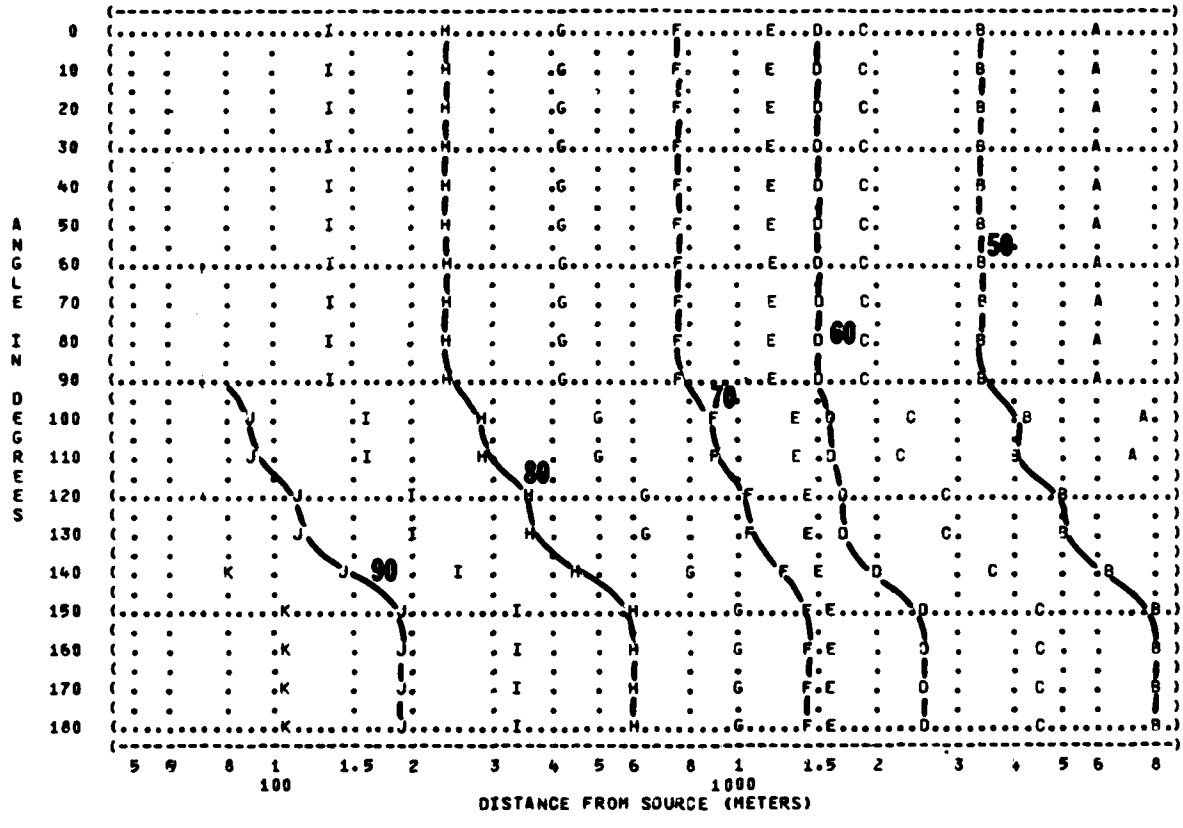
FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (94%)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M MG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-081
RUN 02
26 OCT 81
PAGE 19



POINT	DB
A	45
B	50
C	55
D	60
E	65
F	70
G	75
H	80
I	85
J	90
K	95

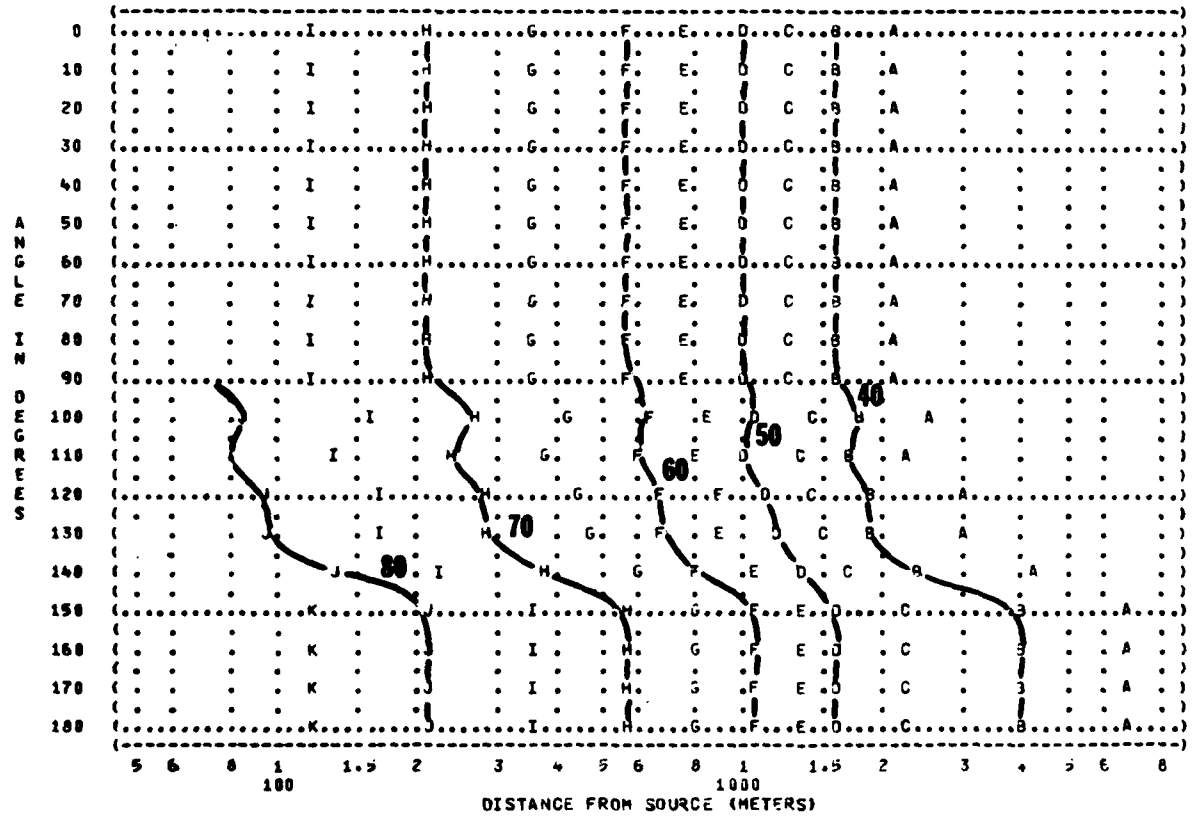
FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

OPERATION:
MILITARY POWER (94%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-718-001
RUN 02
26 OCT 81
PAGE 20



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85

FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

OPERATION: MILITARY POWER (94%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-718-001 RUN 02 26 OCT 81 PAGE 21

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75

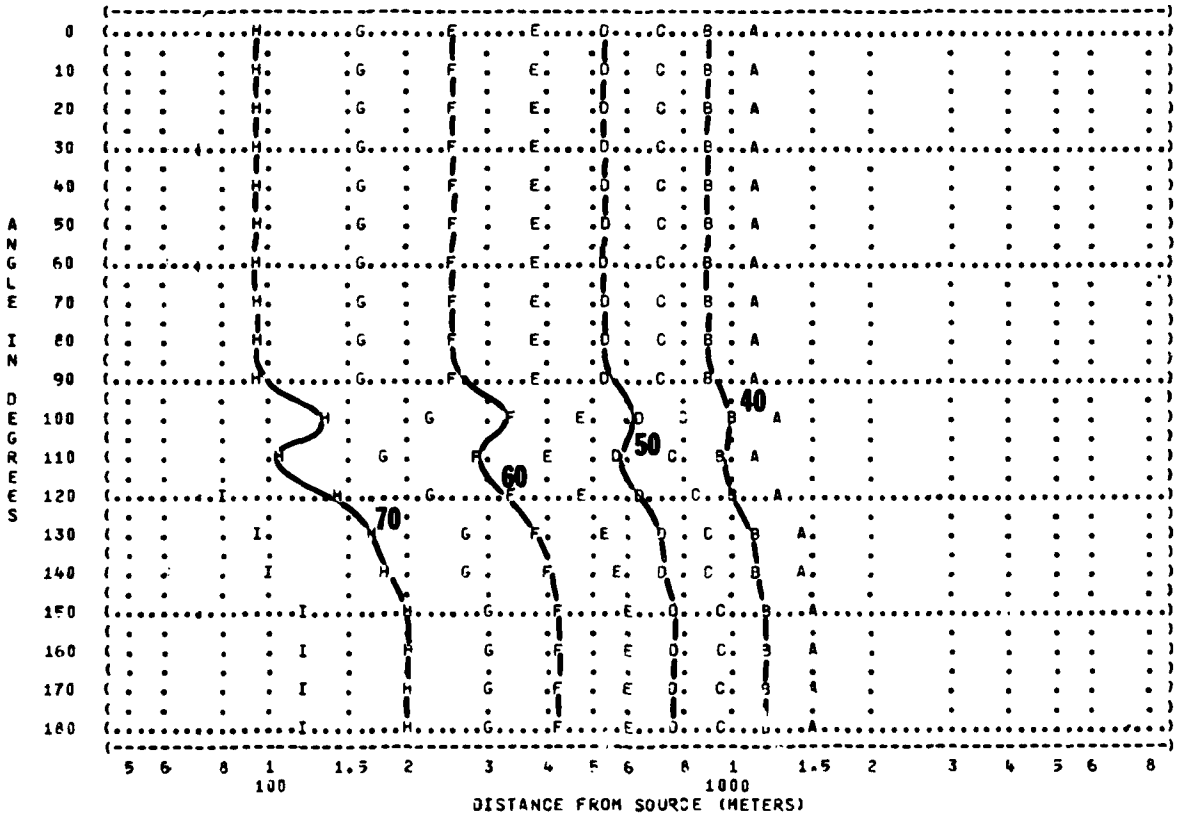


FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEC BF-718-001
RUN 02
26 OCT 81
PAGE 22

NOISE SOURCE/SUBJECT:
TF30-P-108 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

OPERATION:
MILITARY POWER (94%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

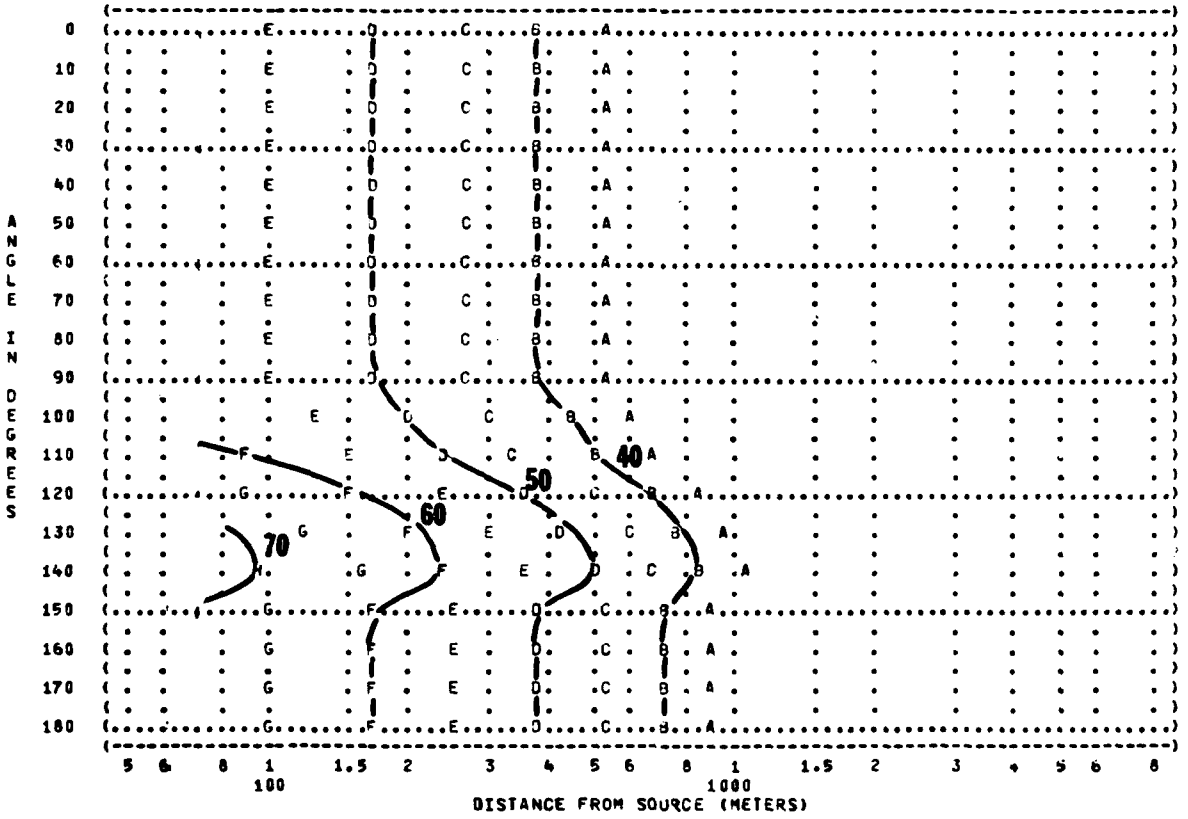


FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

OPERATION: MILITARY POWER (94%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-718-001 RUN 02 26 OCT 81 PAGE 23

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

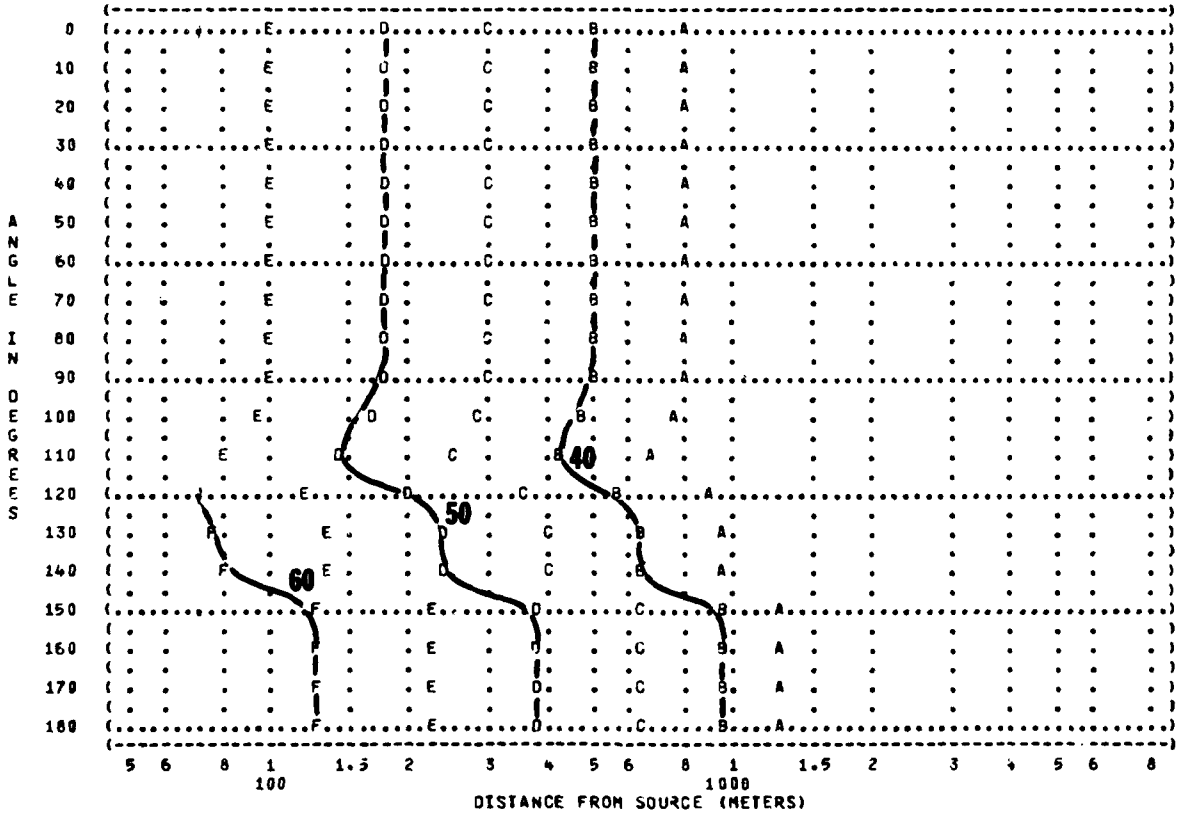


FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 02
26 OCT 81
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NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

OPERATION:
MILITARY POWER (94%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65

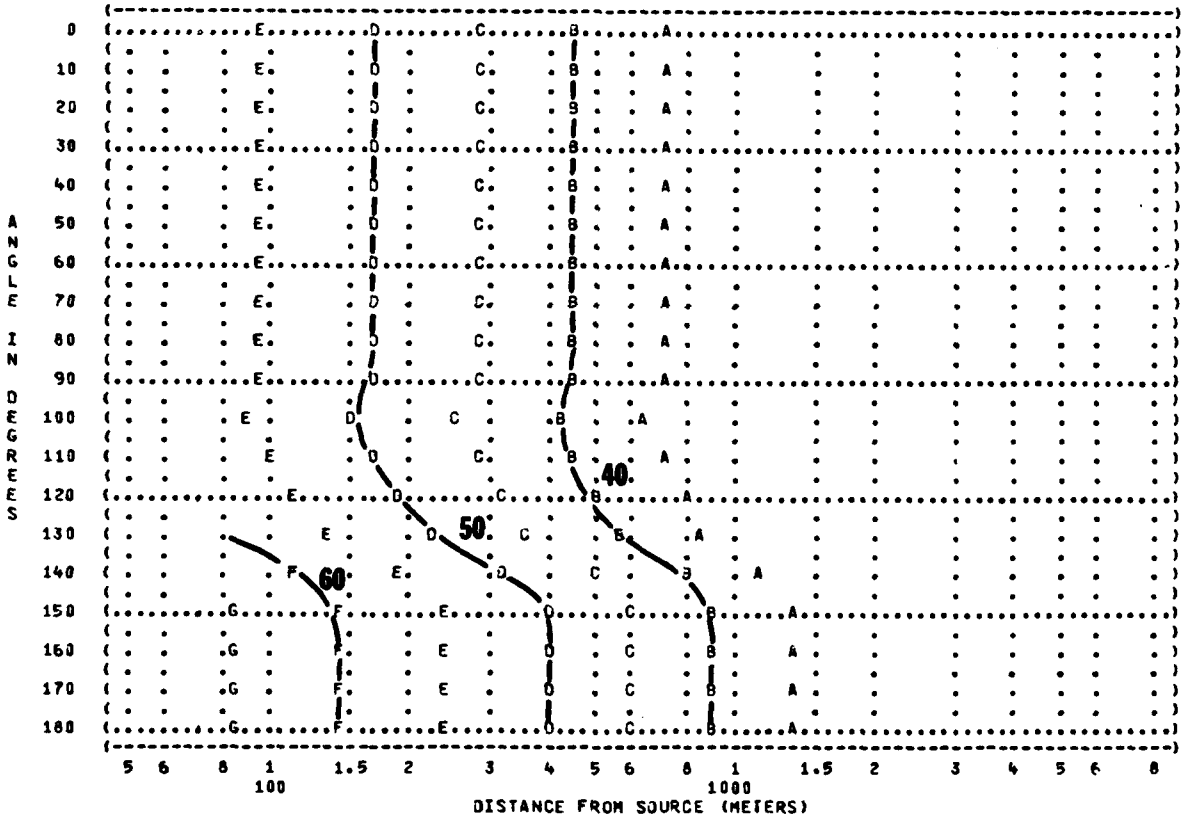

FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF30-P-108 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (94%)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 02
26 OCT 81
PAGE 25

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

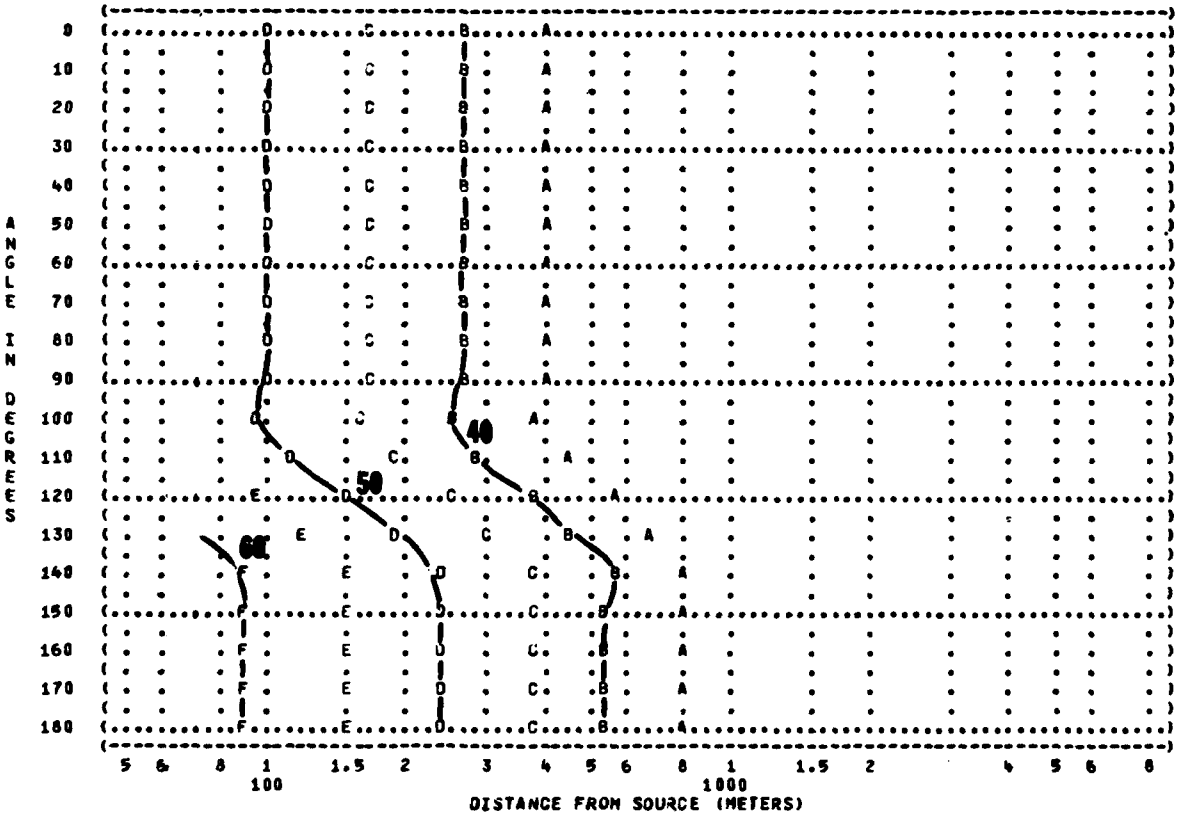

FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST 8F-718-081
RUN 02
26 OCT 81
PAGE 26

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

OPERATION:
MILITARY POWER (94%) SINGLE ENGINE GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55

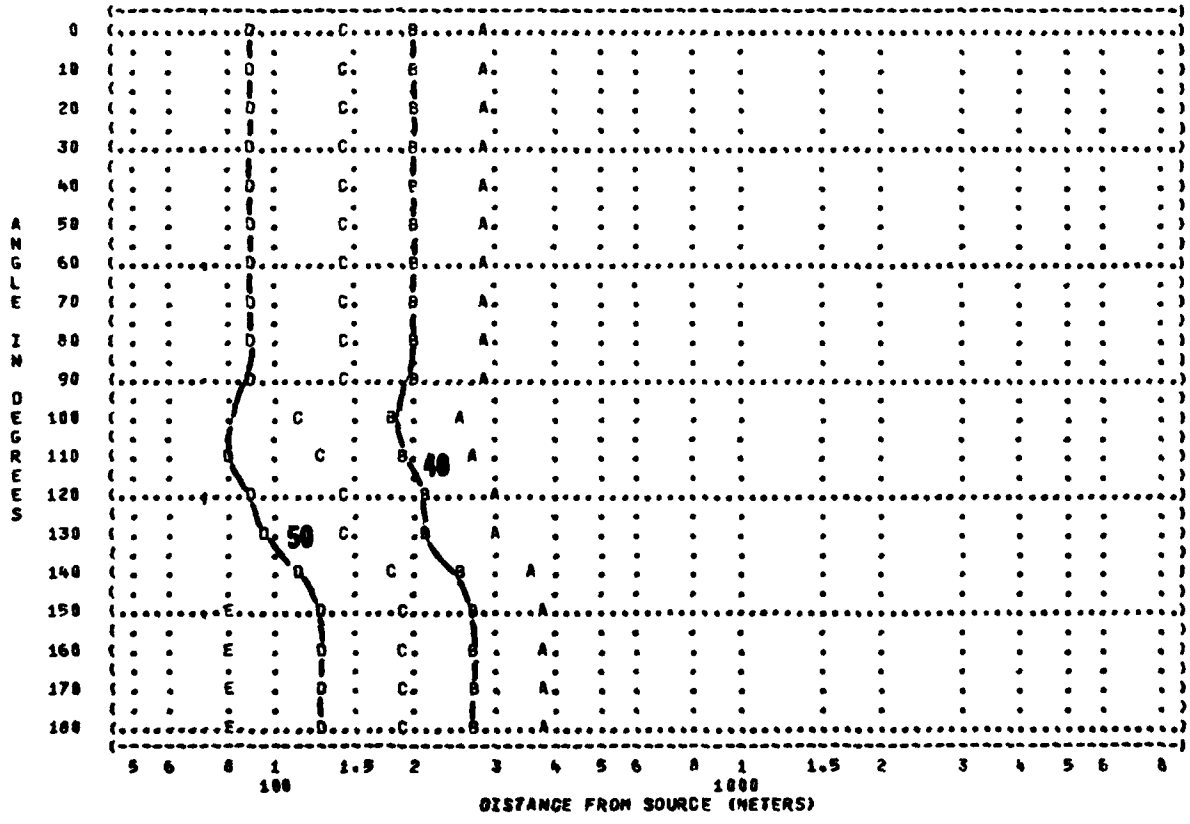

FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND
NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE
TEXAS ASE HUSH

FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE)
FAR FIELD NOISE

OPERATION:
MILITARY POWER (94%)
SINGLE ENGINE
GROUND RUNUP IN THE TEXAS ASE HUSH HOUSE

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .768 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 02
26 OCT 81
PAGE 27

POINT	DB
A	35
B	40
C	45
D	50

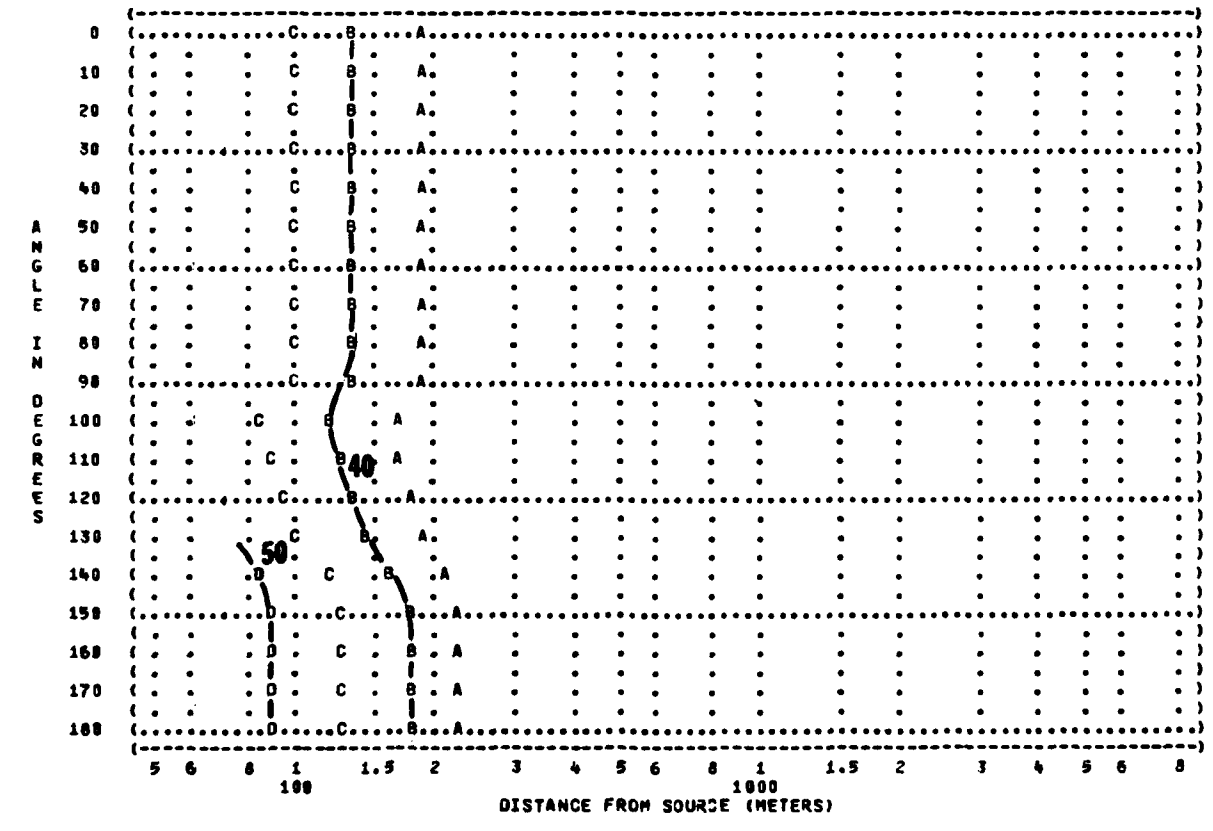

FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 16 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST 8F-716-881
RUN 03
26 OCT 81
PAGE 18

POINT	DB
A	65
B	70
C	75
D	80
E	85
F	90
G	95
H	100
I	105

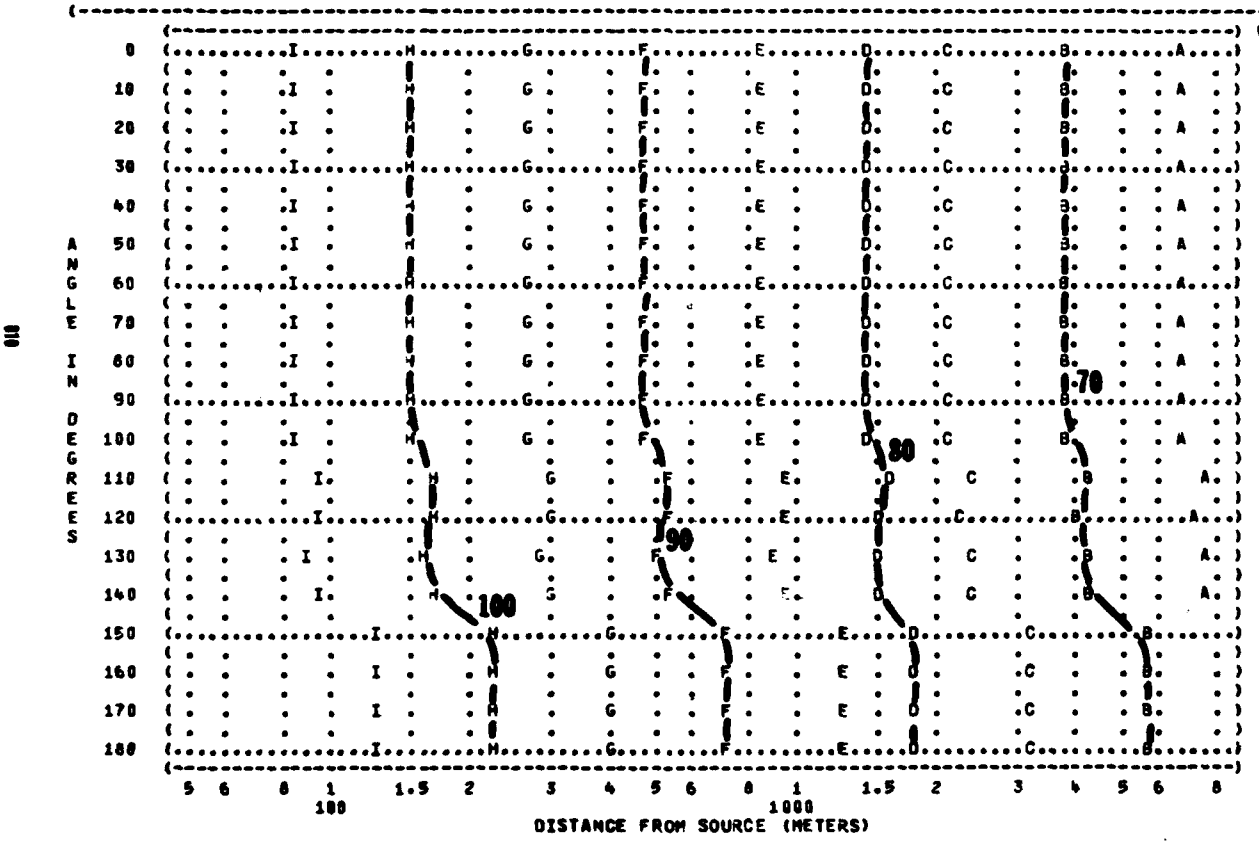

FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 31.5 HZ OCTAVE BAND

IDENTIFICATION:
OMEGA 1.4
TEST 8F-718-881
RUN 03
26 OCT 81
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NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

POINT	DB
A	60
B	65
C	70
D	75
E	80
F	85
G	90
H	95
I	100
J	105
K	110

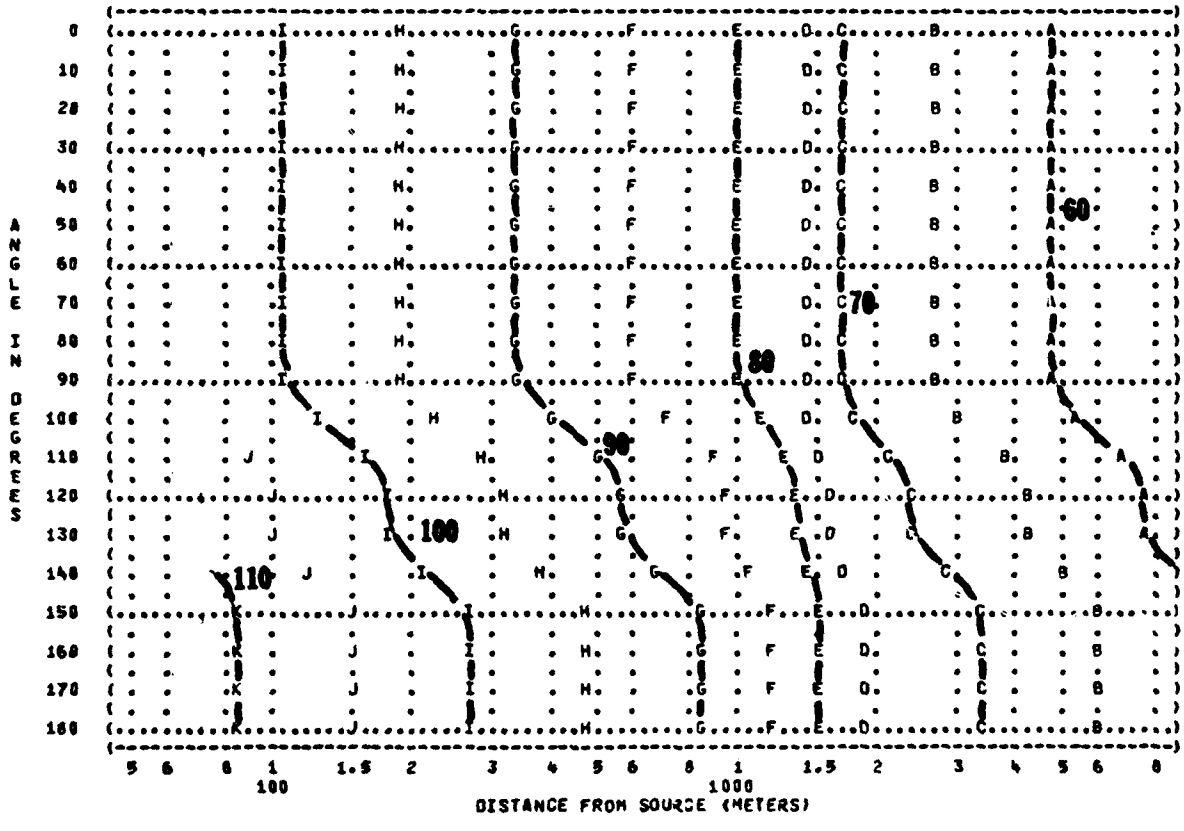


FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 63 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF30-P-108 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-718-081 RUN 03 26 OCT 81 PAGE 20

POINT	DB
A	40
B	45
C	50
D	55
E	60
F	65
G	70
H	75
I	80
J	85
K	90
L	95
M	100

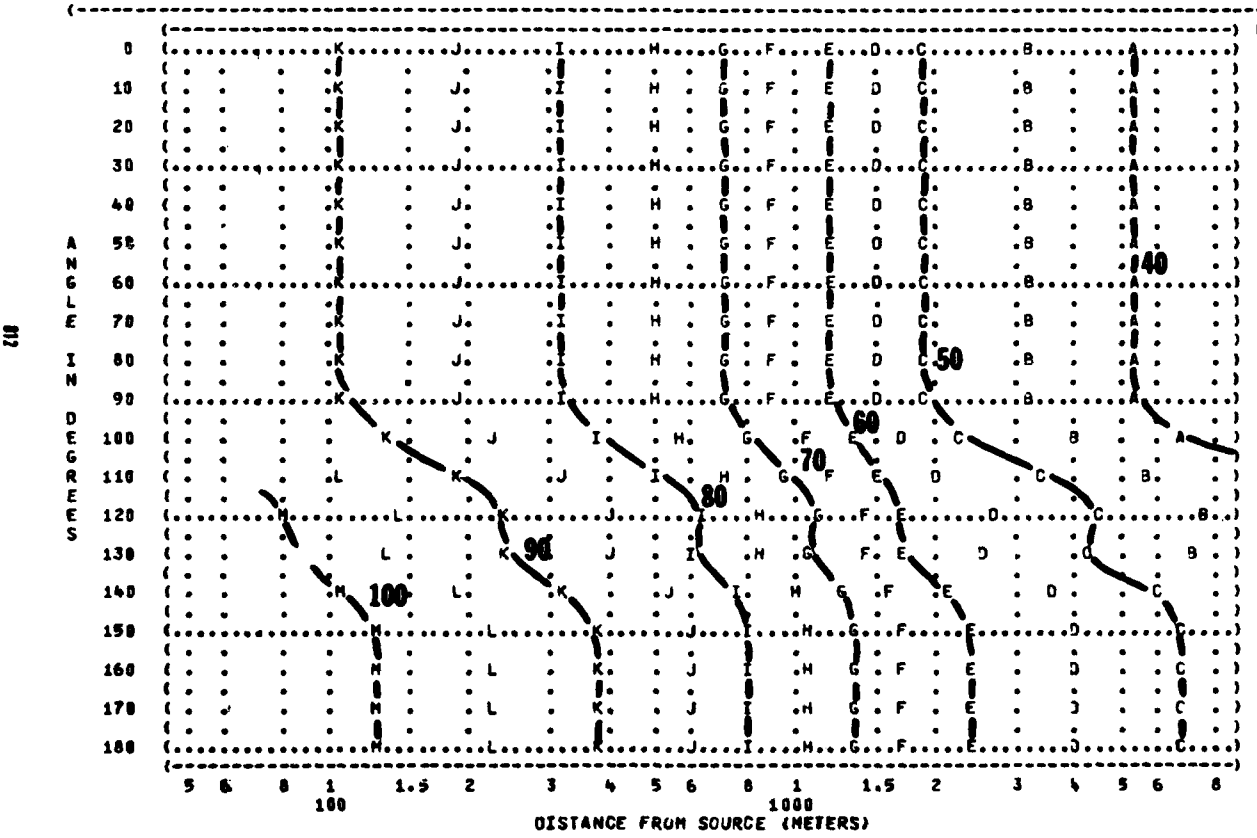


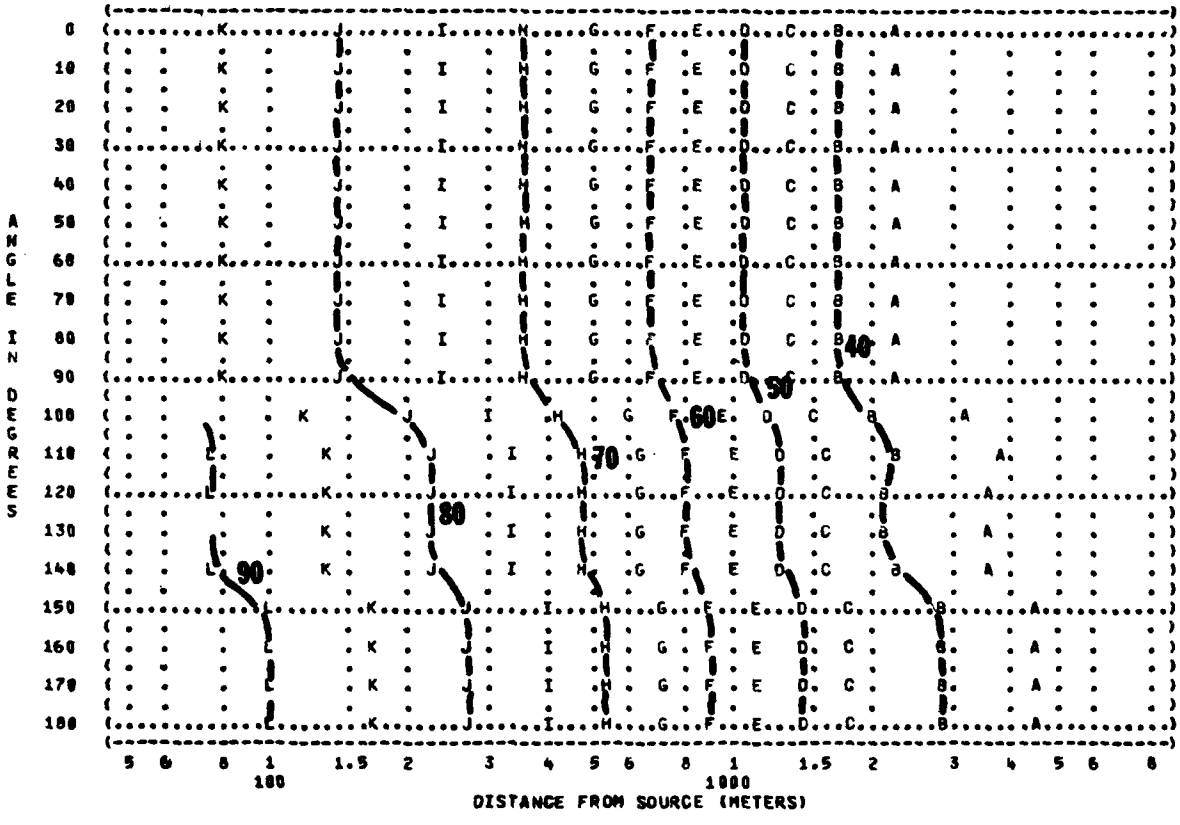
FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 125 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-718-881 RUN 03 26 OCT 81 PAGE 21



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80
K	85
L	90

FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 250 HZ OCTAVE BAND

IDENTIFICATION: OMEGA 1.4 TEST BF-718-001 RUN 03 26 OCT 81 PAGE 22

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70
I	75
J	80

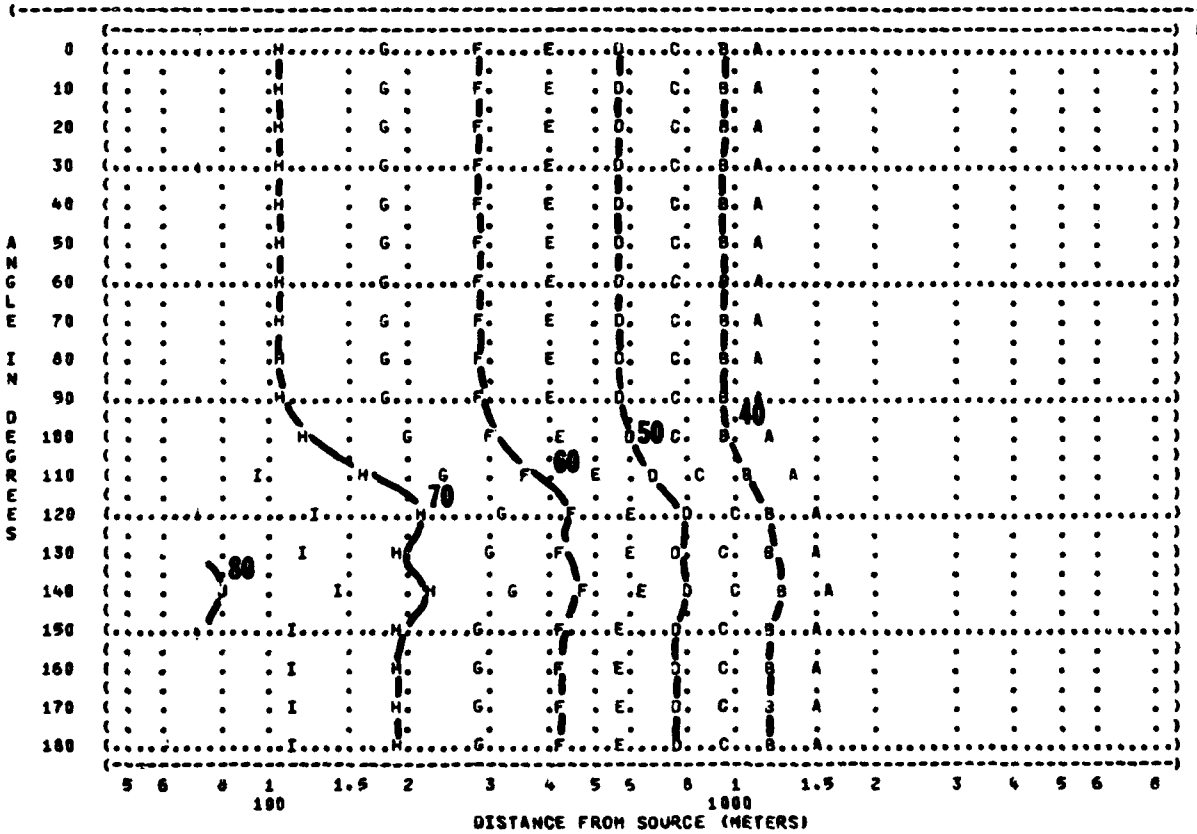


FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB)
500 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE
(F-111F ENGINE)
FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M HG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 03
26 OCT 81
PAGE 23

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	58
G	65
H	70

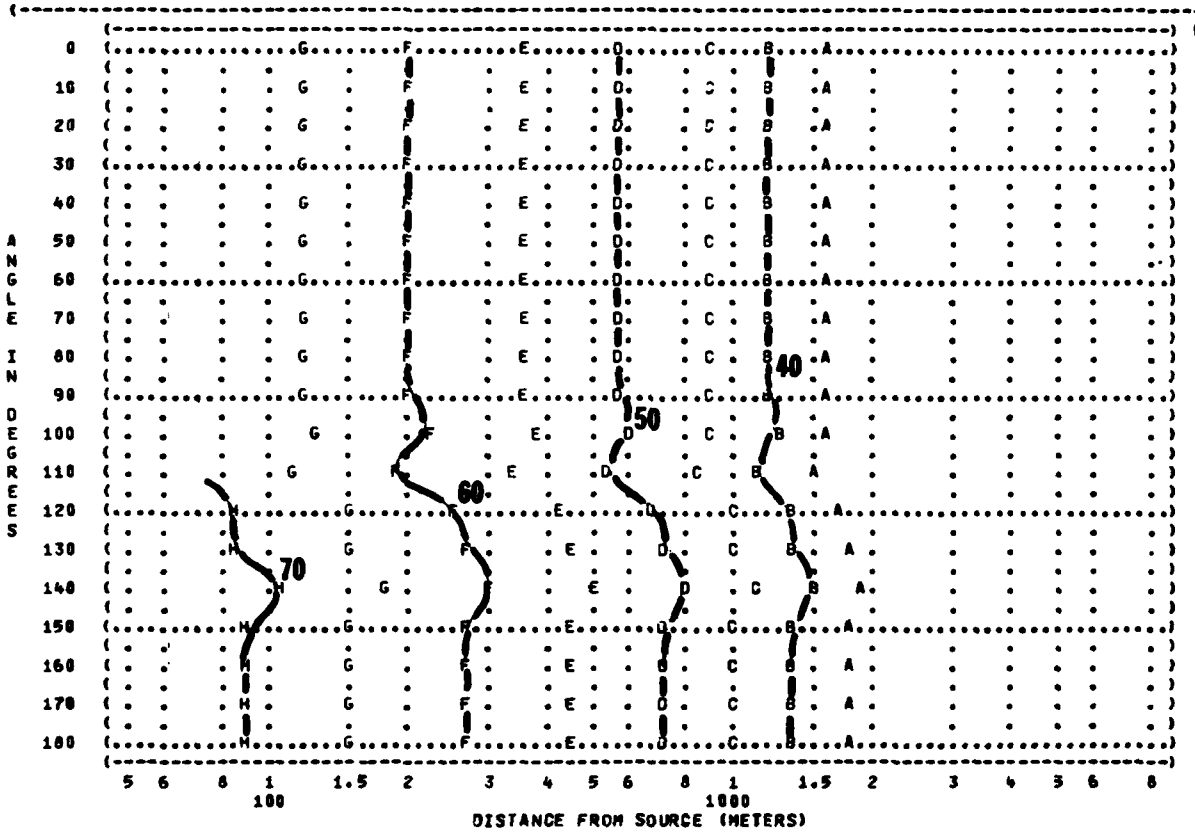


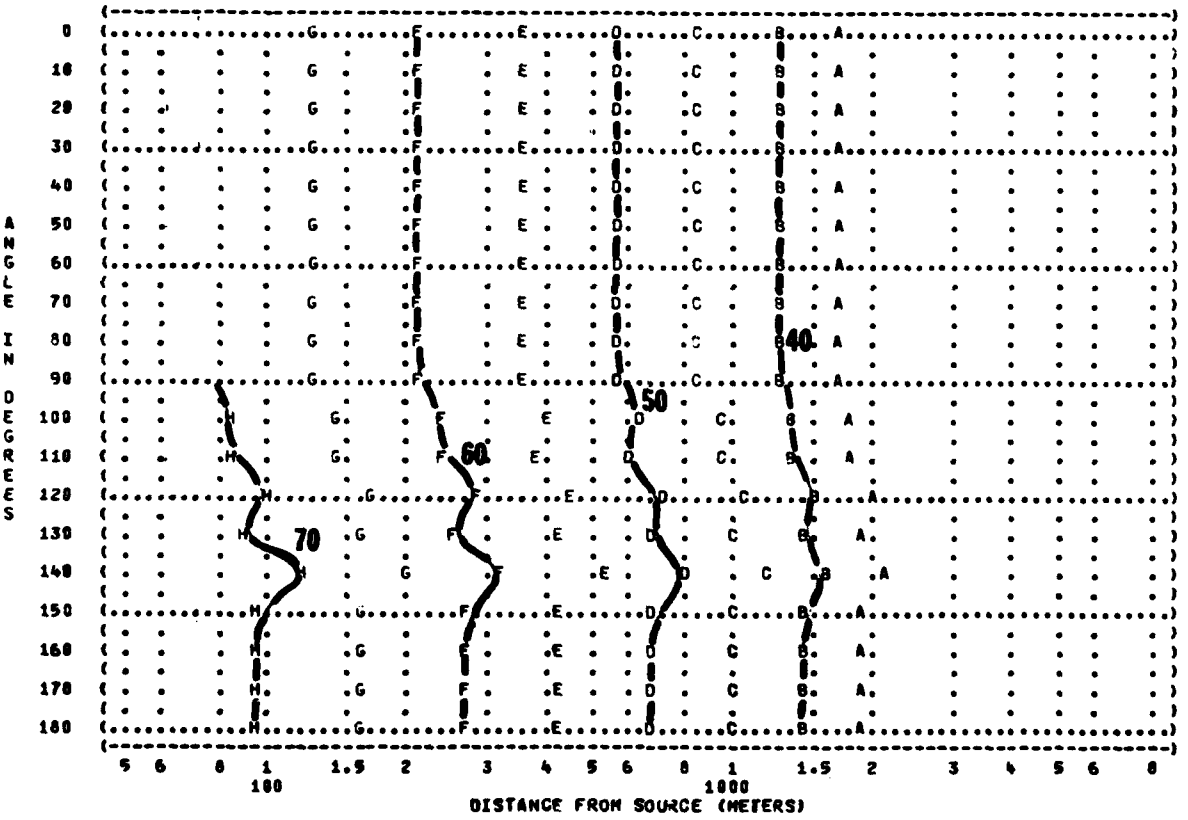
FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 1000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT:
TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY:
TEMP = 15 C
BAR PRESS = .760 M MG
REL HUMID = 70 %

IDENTIFICATION:
OMEGA 1.4
TEST BF-718-001
RUN 03
26 OCT 81
PAGE 24



POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 2000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .760 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-718-001 RUN 03 26 OCT 81 PAGE 25

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60
G	65
H	70

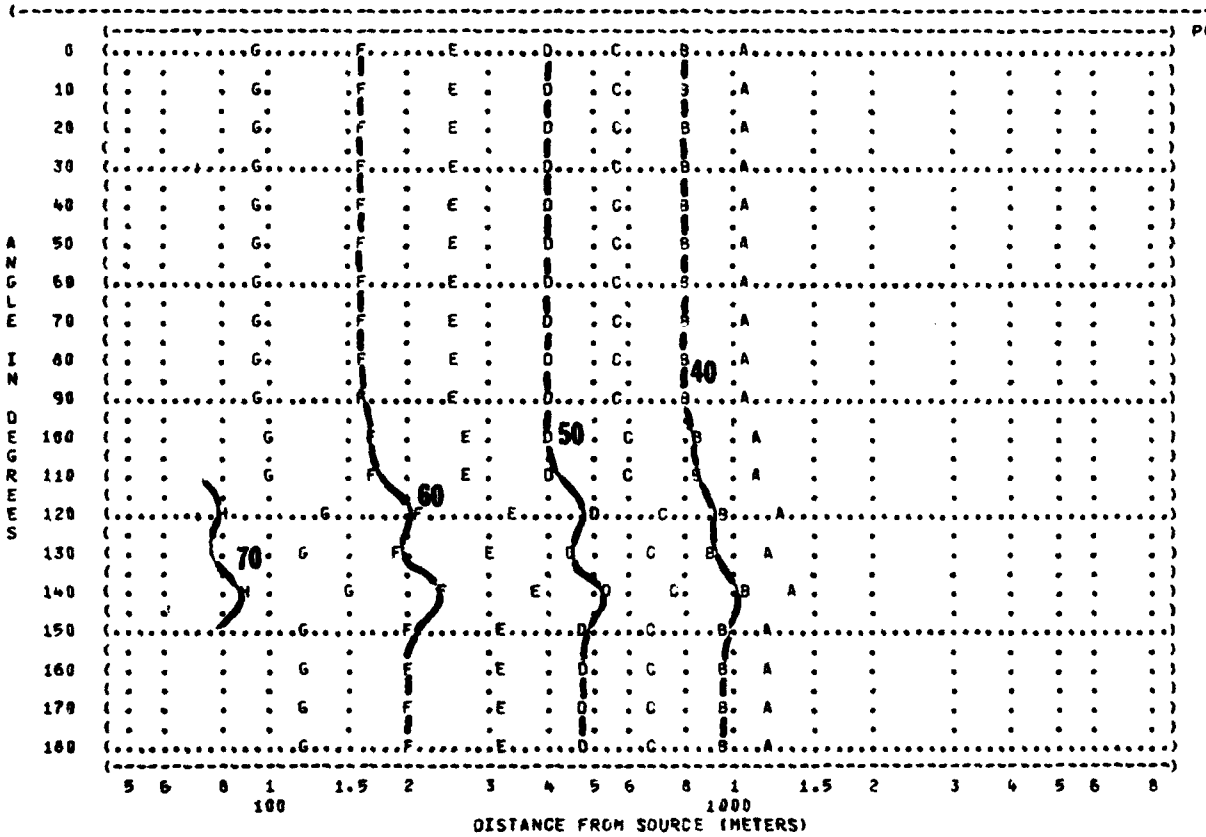


FIGURE: 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 4000 HZ OCTAVE BAND

NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C BAR PRESS = .768 M HG REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4 TEST BF-718-001 RUN 03 26 OCT 81 PAGE 26

POINT	DB
A	35
B	40
C	45
D	50
E	55
F	60

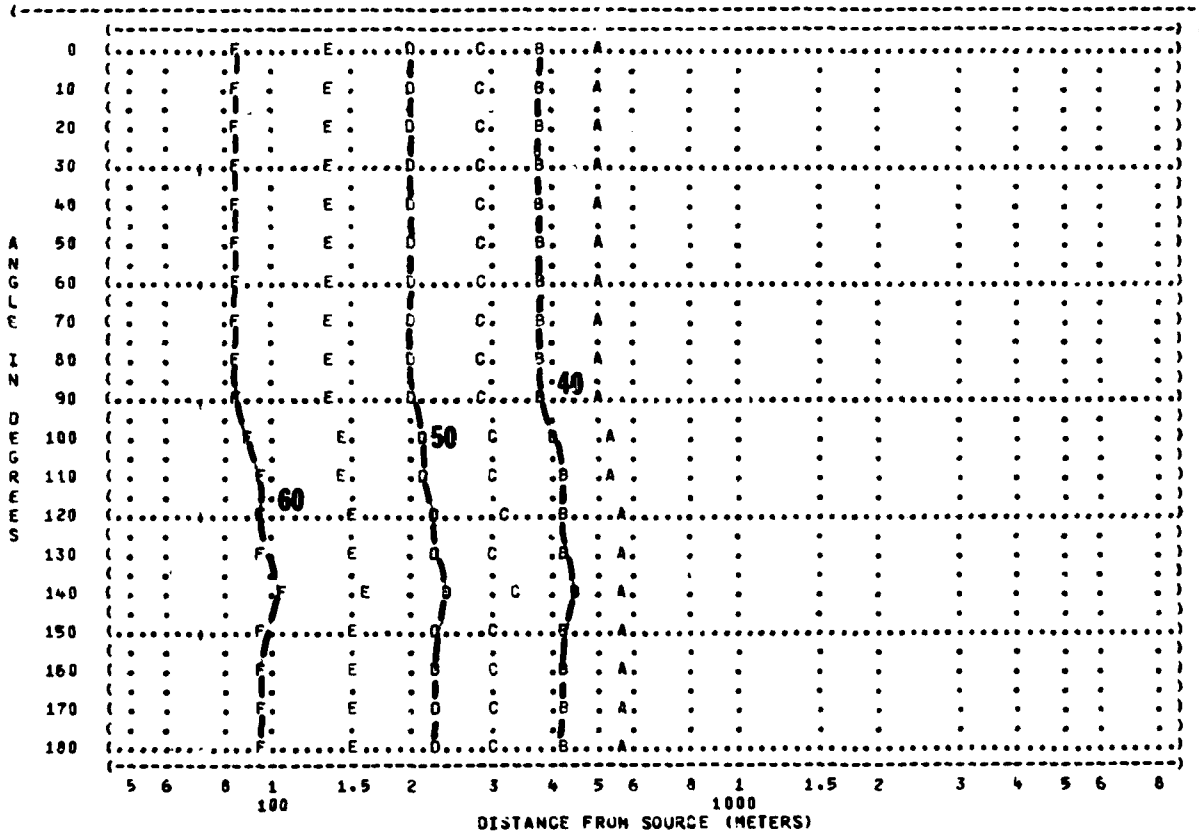


FIGURE 14.8 SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (DB) 8000 HZ OCTAVE BAND

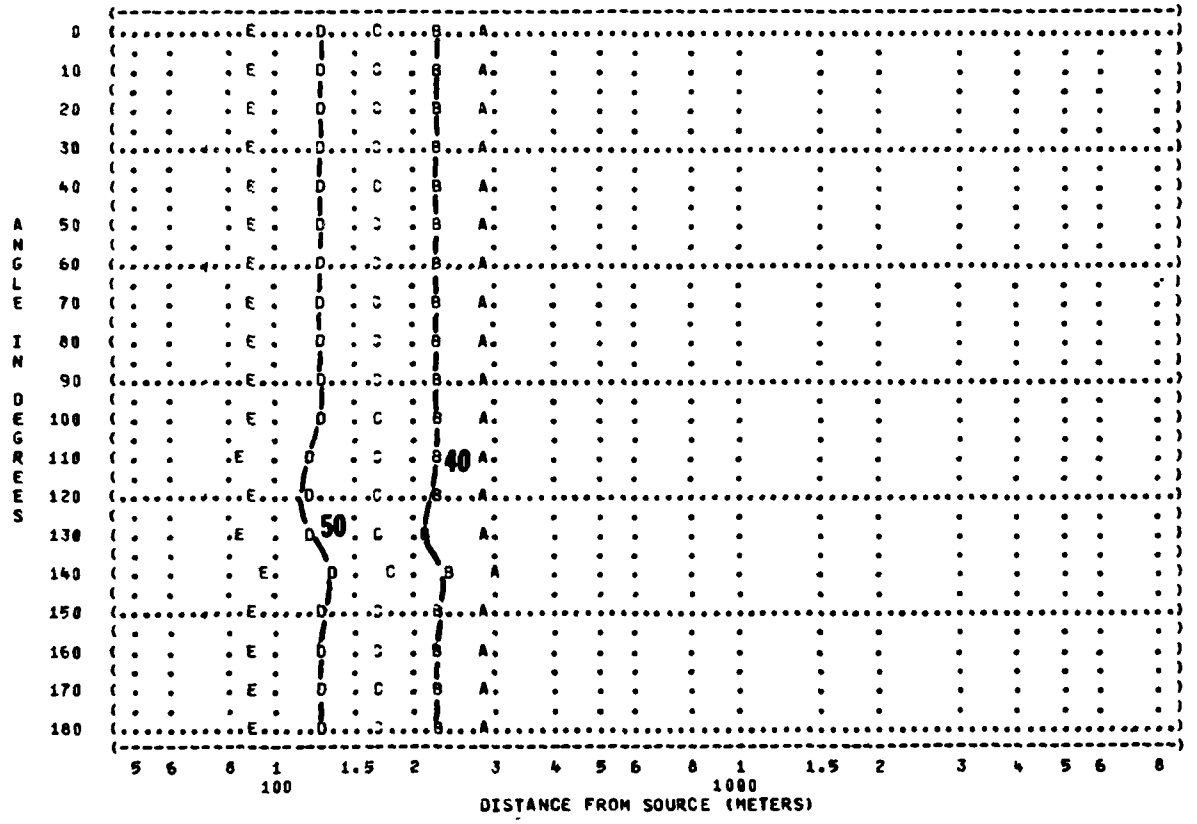
NOISE SOURCE/SUBJECT: TF30-P-100 ENGINE IN THE TEXAS ASE HUSH HOUSE (F-111F ENGINE) FAR FIELD NOISE

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

METEOROLOGY: TEMP = 15 C, BAR PRESS = .760 M HG, REL HUMID = 70 %

IDENTIFICATION: OMEGA 1.4, TEST BF-718-001, RUN 03, 26 OCT 81, PAGE 27

POINT	DB
A	35
B	40
C	45
D	50
E	55



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