

## N O T I C E

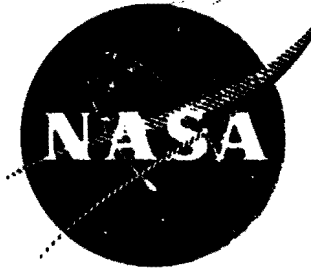
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(NASA-CR-134851) DEMONSTRATION OF SHORT  
HAUL AIRCRAFT AFT NOISE REDUCTION TECHNIQUES  
ON A TWENTY INCH (50.8 cm) DIAMETER FAN,  
VOLUME 3 (General Electric Co.) 725 p  
HC A99/MF A01

N80-15085

CSCL 21E G3/07

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# Demonstration of Short-Haul Aircraft Aft Noise Reduction Techniques on a Twenty Inch (50.8 cm) Diameter Fan

## Volume III

By

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prepared for

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA-Lewis Research Center  
NAS3-18021



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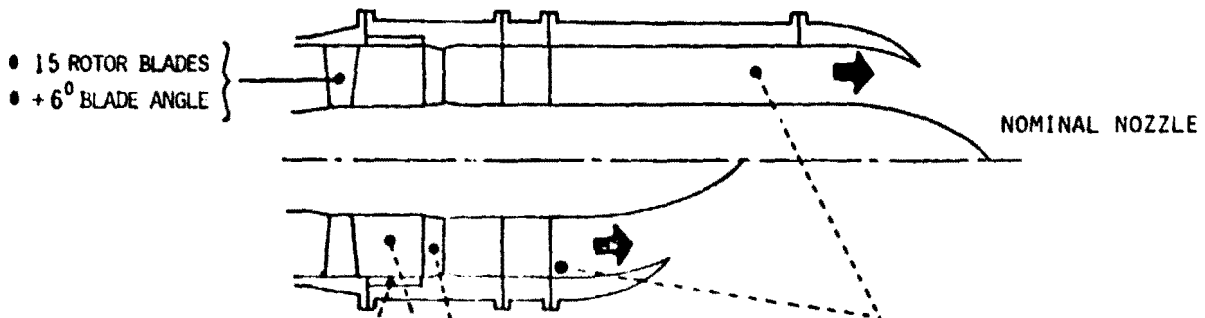
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## DISCUSSION

This is the third of three volumes reporting test results of aft fan noise reduction techniques using a twenty inch (50.8 cm) diameter, low tip speed, low pressure ratio fan. In this volume, tabulated 1/3 octave band sound data are presented. They are model data and are presented on a 17 foot (5.2 m) arc and extrapolated to a 200 foot (60.96 m) sideline.

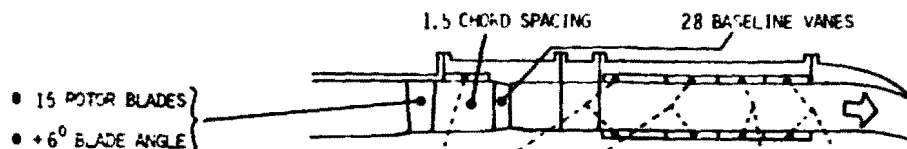
The configurations tested are tabulated in Tables I and II for the source noise and aft suppression tests, respectively. Data from each of these configurations are presented in this report. Table III describes the symbols and abbreviations used on the 1/3 octave band printout sheets.

Table 1. Source Noise Test Configurations.



CONFIGURATION	ROTOR-OGV TREATMENT	SPACING	VANE NUMBER	VANE/BLADE RATIO	DUCT LENGTH	COMMENTS		
1B	NO	1.5	11	0.73	LONG	STAGE 55 VANES		
2	YES	1.5	28	1.87	SHORT	BASELINE VANES		
3A	↓	1.5	31	2.07	↓	BASELINE VANES		
4B		1.5	31	2.07		LOW MACH VANES		
5	↓	1.0	28	1.87	↓	BASELINE VANES		
6		1.5	28	1.87		LONG		
12		1.5	26	1.73		SHORT		
13	↓	1.5	27	1.80	↓	(REPEAT OF CONFIG. 2)		
14A		2.0	28	1.87				
18		NO	1.5	28			1.87	LONG
19		YES	1.5	25			1.67	SHORT
20	↓	1.5	29	1.93	↓			
21		1.5	30	2.00				
22		1.5	28	1.87				
27		NO	0.5	31			2.07	
28				30			2.00	
29			29	1.93				
30			28	1.87				
31			27	1.80				
32			26	1.73				
33			25	1.67				

Table II. Aft Suppression Test Configurations.



\* INNER AND OUTER PANELS ARE THE SAME DEPTH AND POROSITY UNLESS OTHERWISE NOTED BY (I) AND (O).  
 \*\*R DENOTES AERODYNAMIC RAKES IN FRONT OF THE ROTOR.

CONFIGURATION	ROTOR-OGV TREATMENT	DEPTH POROSITY		DEPTH POROSITY		DEPTH POROSITY		DEPTH POROSITY		NOZZLE	COMMENTS	
		IN. (CM.)	%	IN. (CM.)	%	IN. (CM.)	%	IN. (CM.)	%			
6	YES	0	0	0	0	0	0	0	0	NOMINAL		
7,7R	NO	.25(.64)	12	.50(1.27)	12	.75(1.91)	12	1.5(3.81)	12	↓ OPEN } WITH 0.6 IN. (1.52 CM) SPLITTER, L/H = 2.30 ↓ NOMINAL ↓ OPEN ↓ NOMINAL		
8,8R		.25(.64)	27	.50(1.27)	27	.75(1.91)	27	1.5(3.81)	27			
9,9R		.50(1.27)	27	.25(.64)	27	.75(1.91)	27	1.5(3.81)	27			
10,10R		.50(1.27)	27	.25(.64)	27	.75(1.91)	27	1.5(3.81)	27			
16,16R		.25(.64)	27	.50(1.27)	27	.75(1.91)	27	1.0(2.54)	27			
17		.75(1.91)	27	.75(1.91)	27	.75(1.91)	27	.75(1.91)	27			
18,18R		0	0	0	0	0	0	0	0			
23		0	0	0	0	0	0	0	0			
24		(O).25(.64)	27	.50(1.27)	27	.75(1.91)	27	1.5(3.81)	27		↓ NOMINAL	} SLANT CELL - LAST OUTER PANEL
		(I).75(1.91)	27	.75(1.91)	27	.75(1.91)	27	.75(1.91)	27			
25	(O).25(.64)	27	.50(1.27)	27	.75(1.91)	27	1.0(2.54)	27	↓ NOMINAL	} SLANT CELL - LAST OUTER PANEL		
	(I).25(.64)	27	.50(1.27)	27	.75(1.91)	27	1.5(3.81)	27				
26	1.5(3.81)	12	.75(1.91)	12	.50(1.27)	12	.25(.64)	12				
75-1A		0	0	0	0	0	0	.25(.64)	12			
75-1B								.50(1.27)	12			
75-1C								.75(1.91)	12			
75-1D								1.5(3.81)	12			
75-1E								1.0(2.54)	27		SLANT CELL	
75-1F								0	0			

Table II Aft Suppression Test Configurations (Concluded).

CONFIGURATION	ROTOR-OGV TREATMENT	DEPTH POROSITY		DEPTH POROSITY		DEPTH POROSITY		DEPTH POROSITY		NOZZLE	COMMENTS
		IN. (CM.)	%	IN. (CM.)	%	IN. (CM.)	%	IN. (CM.)	%		
75-1G	NO	0	0	0	0	0	0	.25(.64)	27	NOMINAL	
75-1H								.50(1.27)	27		
75-1I								.75(1.91)	27		
75-1J								1.0(2.54)	27		
75-1K								1.5(3.81)	27		
75-2	YES	.25(.64)	12	.50(1.27)	12	.75(1.91)	12	1.5(3.81)	12		
75-3	NO	.75(1.91)	12	.75(1.91)	12	.75(1.91)	12	.75(1.91)	12		
75-4		(0) .25(.64)	12	.50(1.27)	12	.75(1.91)	12	1.5(3.81)	12		
		(1) .75(1.91)	12	.75(1.91)	12	.75(1.91)	12	.75(1.91)	12		
75-5		1.5(3.81)	27	.75(1.91)	27	.50(1.27)	27	.25(.64)	27		
75-6A		.75(1.91)	12	.75(1.91)	12	.75(1.91)	12	.75(1.91)	12		
75-6B		0	0	0	0	0	0	0	0		
75-6C		1.5(3.81)	27	0	0	0	0	0	0		
75-6D		0	0	0	0	0	0	1.5(3.81)	27		
75-7		.25(.64)	12	.75(1.91)	27	.50(1.27)	12	1.5(3.81)	27		
75-8		.50(1.27)	12	.75(1.91)	12	.25(.64)	12	1.5(3.81)	27		
75-9		.25(.64)	12	.50(1.27)	12	.75(1.91)	12	1.5(3.81)	12		

TREATMENT L/H = 3.68

Table III. 1/3 Octave Band Printout Nomenclature.

<u>Symbol or Abbreviation</u>	<u>Definition</u>	<u>Units</u>
BAR	Barometric pressure	in Hg (nt/m <sup>2</sup> )
CONFIG	Configuration	
DATE	Test date	
HACT	Absolute humidity	gm/m <sup>3</sup>
LOC	Location of test	
NFA	Physical model fan speed	RPM (rad/sec)
NFD	Model design fan speed	RPM (rad/sec)
NFK	Corrected model fan speed	RPM (rad/sec)
OVERALL CALCULATED	Overall sound pressure level	dB
PNdB	Perceived noise level	PNdB
PWL	Sound power level re 10 <sup>-13</sup> watts	dB
RADIAL	Arc distance	ft (m)
RUN	Schenectady run and data point number	
SIDELINE	Sideline distance	ft (m)
TAMB	Dry bulb temperature	°F (°K)
TWET	Wet bulb temperature	°F (°K)
VEHICLE	Test vehicle	



ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	62	71	81	91	101	111	122	133	145	156	0	0	0	0	0	0	0
		(1.08)	(1.24)	(1.41)	(1.58)	(1.75)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	0	0	0	0	0	0	
SIDELINE 200. FT.	50																	
( 60.96 M)	63																	
VEHICLE R=55	80																	
CONFIC 18	100	47.5	51.6	50.5	51.7	50.4	47.9	42.9	24.8	47.7	47.1							
LCC SCHENECTADY	125	43.1	49.3	47.9	47.4	47.1	47.1	46.9	44.4	45.9	45.2							
DATE 10/31/74	160	43.0	44.2	45.4	46.1	45.5	46.0	46.5	44.6	46.4	44.7							
RJA 9/20	200	40.4	43.8	44.8	46.5	47.7	48.4	49.2	24.4	48.5	46.7							
TAPE	250	43.8	45.7	47.2	47.9	48.6	49.3	49.1	24.3	47.6	44.5							
BAR 29.9 HG	315	47.5	48.9	49.6	50.8	50.0	50.5	50.2	24.2	47.0	43.8							
( 101039. N/M2)	400	45.9	47.6	49.1	49.5	50.4	50.6	49.6	24.1	47.1	43.3							
TAMB 67. DEG F	500	45.8	46.7	48.0	49.4	49.6	50.5	50.3	24.0	47.2	42.6							
( 293. DEG K)	630	48.0	49.6	51.4	53.1	53.9	54.7	54.1	23.8	50.0	43.6							
T-ET 64. DEG F	800	48.3	50.2	51.8	52.7	53.7	54.5	54.7	23.7	50.6	42.5							
( 291. DEG K)	1000	49.9	51.1	52.9	53.8	55.3	56.7	57.1	23.5	52.8	42.9							
MACT 14.25 GM/M3	1250	55.8	60.5	63.3	65.5	66.2	66.8	65.4	23.3	59.1	48.1							
( 1.01425 KG/M3)	1600	55.9	61.8	64.4	66.1	67.3	67.3	66.2	23.1	59.3	48.4							
NFA 5452. RPM	2000	51.4	53.8	56.8	58.9	60.6	61.1	61.2	22.9	55.5	45.4							
( 592. RAD/SEC)	2500	52.0	54.4	57.9	60.3	62.7	62.9	64.0	22.6	57.5	45.2							
NFK 5009. RPM	3150	51.9	54.0	57.3	60.7	62.9	62.8	64.1	22.2	57.7	46.2							
( 587. RAD/SEC)	4000	49.4	52.3	55.4	58.8	60.4	61.3	61.3	21.5	53.8	42.5							
NFD 6423. RPM	5000	48.0	51.2	54.8	58.2	59.3	59.7	60.7	21.1	51.9	40.0							
( 924. RAD/SEC)	6000	48.8	43.7	48.8	51.9	52.5	54.2	55.9	20.8	49.5	37.5							
NO. OF BLADES 15	10000	38.3	41.5	46.7	49.9	50.7	52.7	53.3	19.5	43.5	29.4							
FAN TIP SPEED	12500	34.4	37.6	43.2	47.4	47.8	49.6	50.4	18.3	39.1	22.7							
493. FT/SEC	16000	27.0	31.0	36.7	40.1	41.6	44.4	43.5	17.6	30.8	11.1							
	20000	23.7	25.0	32.6	35.0	35.5	37.5	37.0	17.1	21.4								
	25000	11.3	16.0	23.1	25.6	24.9	27.9	26.0		5.9								
	31500		3.7	13.6	12.4	13.8	14.6	11.3										
	40000				1.2													
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		63.2	66.6	69.3	71.5	72.7	73.1	73.8	36.7	66.6	57.7							
PN38		74.9	78.5	81.3	83.4	84.9	85.2	85.9	43.3	79.5	69.1							

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	02	71	01	91	101	111	121	131	141	150	0	0	0	0	0	0	
FREQ.	(1.08)	(1.24)	(1.41)	(1.58)	(1.75)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	0	0	0	0	0	0	
SIDE LINE 200. FT.	50																
( 02.06 Hz)	100	45.2	46.3	48.2	51.3	53.2	54.4	53.1	52.0	50.9	50.0						
VEHICLE 0-55	125	48.9	50.3	50.1	51.0	51.1	50.8	51.0	50.8	50.7	49.8						
CONFIG 1B	160	46.7	46.7	46.1	49.9	49.3	49.5	49.9	50.8	50.8	49.1						
LCC SCHENECTADY	200	45.2	47.6	48.0	50.1	51.0	51.7	53.1	53.0	53.4	50.2						
DATE 10/31/74	250	47.3	49.7	50.0	52.8	52.3	52.4	52.2	51.9	51.7	49.2						
RUN 0/21	315	51.5	52.4	53.3	54.4	54.0	54.0	52.9	51.7	51.3	48.0						
TYPE	400	49.0	50.6	51.5	52.8	53.4	53.1	53.0	52.4	51.2	47.0						
BAR 20.0 MC	500	49.6	49.2	50.4	52.2	52.0	53.3	53.2	52.2	50.8	46.3						
(01039. N/M2)	630	55.5	52.4	54.3	55.7	56.3	57.7	56.8	55.4	52.8	46.8						
TAMB 67. DEG F	800	50.8	53.0	54.5	55.5	56.9	57.0	57.4	55.4	53.4	45.5						
(293. DEG K)	1000	51.7	53.4	54.8	56.7	58.3	59.2	59.3	58.3	55.4	45.4						
T-ET 84. DEG F	1250	51.5	54.7	57.5	60.3	62.2	63.3	62.6	60.3	57.2	46.0						
(291. DEG K)	1500	62.4	60.3	64.4	68.7	72.0	75.0	73.6	71.4	69.7	56.8						
MACT14.25 G/M3	2000	55.0	50.3	41.2	67.8	65.1	66.0	65.4	62.4	58.0	47.1						
(1.01425 G/M3)	2500	54.5	50.9	40.1	62.6	64.7	65.1	63.7	62.6	57.0	45.4						
MFA 8472. RPM	3150	65.2	65.5	66.8	66.8	67.9	71.6	76.0	68.9	61.5	48.4						
( 078. RAD/SEC)	4000	53.6	58.8	59.1	61.9	63.4	64.8	64.7	63.0	55.2	44.4						
MFK 423. RPM	5000	51.8	56.4	58.5	61.8	62.4	64.4	64.3	63.1	54.7	43.5						
( 072. RAD/SEC)	6300	49.7	53.6	57.4	60.2	61.0	62.4	63.5	61.1	52.0	41.2						
MFD 8023. RPM	8000	45.1	49.2	53.2	56.2	57.3	59.2	59.1	57.4	49.3	36.4						
( 024. RAD/SEC)	10000	42.6	46.3	51.2	53.9	55.8	57.7	56.7	56.0	46.3	32.6						
NO. OF BLADES 15	12500	38.4	43.4	47.0	51.3	51.8	54.1	54.6	53.3	41.0	29.9						
FAN TIP SPEED 16000	16000	32.5	38.3	48.0	44.4	46.1	47.0	48.4	45.3	33.1	14.0						
565. FT/SEC	20000	26.2	29.5	35.1	38.3	40.0	42.2	41.4	39.2	24.0	1.3						
	25000	17.6	20.2	26.0	30.2	30.2	32.0	31.1	26.5	9.4							
	31500	3.0	7.4	14.3	17.3	18.2	18.0	19.7	9.4								
	40000																
	50000																
	63000																
	80000																
OVERALL CALCULATED	68.6	71.5	71.4	74.0	76.3	78.8	78.2	75.5	71.0	61.7							
PM50	83.3	84.7	88.0	87.6	88.0	91.5	93.8	89.1	84.5	73.2							

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	62.	71.	81.	91.	101.	111.	122.	133.	145.	156.	0.	0.	0.	0.	0.	0.	Pal
		(1.08)	(1.24)	(1.41)	(1.58)	(1.74)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	(0.)	(0.)	(10.)	(10.)	(10.)	(10.)	
	50																	
	63																	
	80																	
RADIAL 17. FT.																		
( 5. M)	100	68.2	70.2	68.9	70.9	72.4	73.1	73.4	76.2	80.8	83.9							
VEHICLE R=55	125	78.4	76.9	75.2	77.6	78.2	76.9	76.9	78.0	81.3	84.4							
CONFIG 18	160	71.9	72.2	72.9	73.9	73.9	75.9	77.2	79.2	82.3	83.6							
LCC SCHENECTADY	200	70.4	72.1	73.2	74.5	76.6	77.9	78.6	81.0	83.6	85.1							
DATE 10/31/74	250	74.2	76.1	76.6	77.9	77.9	79.8	80.4	82.0	82.8	84.1							
RUN 9/22	315	76.9	77.4	77.7	78.6	78.7	79.1	79.6	80.7	82.6	82.6							
TAPE	400	74.9	75.9	76.4	77.1	78.4	79.1	79.4	80.2	81.8	82.1							
BAR 29.9 HG	500	74.7	74.6	75.7	77.4	77.7	79.1	79.7	80.5	81.8	81.1							
(01039. N/M2)	630	76.2	77.9	78.9	80.4	81.5	82.9	83.4	83.2	83.4	81.1							
TAMB 67. DEG F	800	75.9	78.1	79.9	80.9	82.2	83.1	84.2	84.0	83.3	80.9							
(293. DEG K)	1000	77.9	78.6	79.7	81.4	83.0	84.3	85.6	86.0	84.6	80.1							
THEY 64. DEG F	1250	77.5	79.6	82.0	84.4	86.5	87.8	88.4	88.2	86.4	81.3							
(291. DEG K)	1600	82.5	85.4	86.6	91.0	94.0	94.8	94.6	94.7	91.1	83.4							
MACT14.25 GM/MX	2000	85.5	88.4	90.3	95.2	98.7	99.8	99.4	99.2	95.9	87.3							
(.01425 KG/H3)	2500	82.5	84.4	86.8	89.7	91.5	92.0	91.6	92.2	86.6	81.8							
NFA 7270. RPM	3150	82.0	84.6	87.3	90.2	92.0	93.0	92.3	94.4	88.4	83.0							
( 761. RAD/SEC)	4000	81.9	84.2	87.5	90.7	92.9	93.9	94.7	97.6	89.3	84.4							
NFK 7215. RPM	5000	79.9	82.6	85.0	89.1	89.8	92.3	93.1	93.0	87.5	81.4							
( 755. RAD/SEC)	6300	78.9	82.0	86.3	89.7	90.3	91.0	92.6	92.5	86.4	81.4							
NFD 8823. RPM	8000	77.5	80.3	84.7	86.8	87.8	89.7	92.0	92.5	86.3	80.4							
( 924. RAD/SEC)	10000	75.4	79.4	83.2	86.0	86.8	90.4	90.9	91.6	85.7	80.0							
NO. OF BLADES 15	12500	74.0	77.9	81.4	84.6	85.6	88.1	90.4	90.6	85.2	79.1							
FAN TIP SPEED	16000	71.5	75.1	78.9	81.8	83.8	87.0	88.3	88.8	82.6	76.9							
635. FT/SEC	20000	69.9	73.9	77.6	81.2	82.8	86.8	88.4	89.7	82.2	77.2							
	25000	68.5	71.8	75.9	79.3	80.7	84.5	86.5	87.4	80.5	74.6							
	31500	65.4	69.1	73.2	76.1	77.8	81.2	82.5	83.9	77.8	72.1							
	40000	61.9	65.6	69.1	71.4	73.8	76.2	75.8	77.3	73.0	67.7							
	50000	62.4	65.9	70.7	71.3	71.9	73.4	71.8	73.4	70.7	67.1							
	63000	64.4	68.8	72.8	74.7	74.7	75.6	72.6	73.6	71.6	68.4							
	80000	71.2	74.0	75.6	78.6	79.6	81.1	78.2	78.4	76.2	71.3							
OVERALL MEASURED																		
OVERALL CALCULATED		92.6	95.0	97.5	100.9	103.1	104.4	104.7	105.4	100.9	96.4							
PNDB		105.5	108.0	110.3	113.9	116.3	117.5	117.5	118.5	114.3	106.5							

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	62	71	81	91	101	111	122	133	145	155	0.	0.	0.	0.	0.	0.
FREQ.	(1.08)	(1.24)	(1.41)	(1.58)	(1.75)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)
SIDELINE 200. FT.	50															
( 60.96 M)	63															
VEHICLE R-55	100	45.5	48.1	47.2	49.3	50.7	50.9	50.3	51.8	54.3	53.8					
CGR.FIG 18	125	55.6	54.8	54.4	56.0	56.3	54.6	53.8	53.4	54.7	54.1					
LCC SCHENECTADY	160	49.0	49.9	51.1	52.1	52.0	53.5	53.9	54.6	55.5	53.1					
DATE 10/31/74	200	47.4	49.8	51.2	52.8	54.7	55.4	55.3	56.2	56.6	54.4					
RUN 9/22	250	51.1	53.7	54.6	56.0	55.8	57.3	57.0	57.1	55.7	53.2					
TAPE	315	53.8	54.9	55.6	56.7	56.5	56.5	56.1	55.7	55.6	51.5					
BAR 29.9 HG	400	51.7	53.3	54.3	55.1	56.2	56.4	55.8	55.1	54.4	50.8					
(1039. N/M2)	500	51.3	52.0	53.4	55.2	55.4	56.3	55.9	55.2	54.3	49.5					
TAMB 67. DEG F	600	52.7	55.1	56.6	58.2	59.0	59.9	59.6	57.9	55.6	49.3					
(293. DEG K)	800	53.3	55.2	57.5	58.5	59.7	60.0	60.2	58.4	55.4	46.7					
TMET 64. DEG F	1000	54.2	55.6	57.1	58.9	60.3	61.2	61.5	60.3	56.4	47.6					
(291. DEG K)	1250	53.5	55.5	59.3	61.8	63.7	64.5	64.1	62.3	57.9	48.3					
MACT14.25 GM/M3	1600	58.4	62.0	63.9	68.2	71.0	71.3	70.1	68.6	62.4	50.1					
(-G1425 KG/M3)	2000	61.2	64.8	67.2	72.3	75.6	76.1	74.7	72.9	66.8	53.6					
NFA 7270. RPM	2500	58.0	60.6	63.6	66.6	68.2	68.1	66.7	65.8	57.3	47.6					
( 781. RAD/SEC)	3150	57.2	60.5	63.8	66.8	68.4	68.8	67.0	67.4	58.5	48.1					
NFK 7215. RPM	4000	56.6	59.8	63.6	66.9	68.9	69.3	68.9	70.0	58.7	48.4					
( 755. RAD/SEC)	5000	54.3	57.9	61.8	65.1	65.6	67.4	67.1	65.1	56.5	44.7					
NFD 8823. RPM	6300	52.5	56.6	61.4	64.9	65.3	65.4	65.7	63.6	54.1	42.9					
( 924. RAD/SEC)	8000	49.8	53.7	58.7	61.0	61.8	62.9	63.9	62.1	52.1	39.1					
NO. OF BLADES 15	10000	46.1	51.3	55.7	58.7	59.2	62.0	61.0	59.0	48.8	34.8					
FAN TIP SPEED	12500	42.1	47.4	51.6	55.0	55.8	57.3	57.8	55.0	44.4	28.2					
635. FT/SEC	16000	35.5	40.8	45.4	48.7	50.1	52.4	51.4	48.1	35.3	18.5					
	20000	28.5	34.5	39.3	43.3	44.5	47.0	45.9	42.4	26.5	4.5					
	25000	19.3	25.2	30.8	34.7	35.5	37.4	35.9	30.5	12.7						
	31500	4.8	11.9	18.0	21.5	22.5	23.3	20.0	13.2							
	40000				2.0	3.4	2.4									
	50000															
	63000															
	80000															
OVERALL CALCULATED		68.0	70.9	73.6	77.2	79.4	80.0	79.0	77.8	71.4	63.8					
PNR		80.9	84.1	86.8	90.6	92.9	93.5	92.5	91.2	84.9	74.2					

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ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	62.	71.	81.	91.	101.	111.	122.	133.	145.	159.	0.	0.	0.	0.	0.	0.
		(1.08)	(1.24)	(1.41)	(1.58)	(1.76)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)
SIDELINE 200. FT.	50																
( 60.96 M)	63																
VEHICLE R-55	100	48.2	52.8	51.5	54.0	53.9	53.4	52.1	55.0	57.8	57.8						
CONFIG 1B	125	55.6	57.5	58.9	62.2	62.6	60.6	60.5	59.9	59.2	58.4						
LCC SCHENECTADY	160	52.5	54.7	55.6	57.4	57.0	57.5	57.4	58.3	58.8	57.1						
DATE 10/31/74	200	50.6	53.3	54.5	56.8	58.4	58.4	59.3	59.2	60.4	58.4						
RUN 9/23	250	56.8	59.2	61.6	63.0	63.6	63.6	64.2	64.4	63.7	59.5						
TAPE	315	57.2	58.1	59.3	60.9	60.0	60.2	60.1	60.0	59.3	56.5						
BAR 29.9 HG	400	55.4	56.6	57.5	59.1	59.2	59.4	58.8	58.4	58.2	55.0						
(01039. N/M2)	500	54.0	55.0	56.2	58.2	58.6	59.3	59.2	58.5	57.5	53.0						
TAMB 67. DEG F	600	55.7	57.9	59.6	61.9	62.0	62.7	62.1	60.9	58.3	52.5						
(293. DEG K)	800	57.0	59.0	60.2	62.0	62.7	63.3	62.7	61.7	58.6	52.5						
T-ET 64. DEG F	1000	56.4	57.6	59.6	61.9	62.6	63.4	63.0	62.0	58.4	50.9						
(291. DEG K)	1250	56.2	58.7	61.0	64.1	65.7	66.5	65.8	64.1	58.7	51.0						
MACT14.25 CM/M3	1600	59.6	62.5	64.9	67.9	68.5	68.3	67.6	66.4	58.7	49.8						
(.01425 KG/M3)	2000	75.6	78.3	81.0	85.0	84.1	80.9	75.7	73.1	66.1	59.6						
NFA 8082. RPM	2500	62.9	65.4	68.8	72.1	72.7	71.9	69.9	69.4	59.5	50.9						
( 846. RAD/SEC)	3150	60.1	63.3	66.8	69.6	70.9	70.3	68.8	68.7	59.5	50.1						
NFK 8020. RPM	4000	61.8	65.5	71.1	72.9	71.6	72.7	72.9	71.0	61.4	51.7						
( 840. RAD/SEC)	5000	57.2	60.9	65.5	68.1	68.6	70.2	69.3	66.9	58.0	47.0						
NFD 8823. RPM	6300	55.9	60.3	64.9	67.9	68.8	69.6	68.7	67.1	56.6	45.9						
( 924. RAD/SEC)	8000	54.3	58.4	64.0	65.0	65.5	66.7	66.4	63.6	53.8	42.1						
NO. OF BLADES 15	10000	51.0	55.5	59.9	62.9	64.0	65.7	64.7	62.8	50.8	38.1						
FAN TIP SPEED	12500	46.3	52.1	56.6	59.5	60.5	62.6	61.1	59.0	48.9	31.7						
706. FT/SEC	16000	40.0	45.3	49.2	53.7	54.1	56.3	54.9	51.3	37.8	20.0						
	20000	33.7	39.2	44.1	48.1	48.7	50.7	49.4	45.2	29.7	7.0						
	25000	24.0	30.0	36.0	39.4	40.2	42.6	40.6	35.3	17.2							
	31500	19.5	26.7	32.3	36.5	37.7	39.1	35.0	17.7								
	40000			2.7	7.0	7.4	8.9										
	50000																
	63000																
	80000																
OVERALL CALCULATED		76.8	79.5	82.4	86.0	85.4	83.5	80.9	79.2	73.0	68.1						
PNDB		90.2	93.0	95.9	99.4	99.0	97.3	94.4	92.8	85.7	78.8						





	FREQ.	62	71	81	91	101	111	122	133	145	156	0	0	0	0	0	0
		(1.08)	(1.24)	(1.41)	(1.58)	(1.76)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	(0)	(0)	(0)	(0)	(0)	(0)
		(1.08)	(1.24)	(1.41)	(1.58)	(1.76)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	(0)	(0)	(0)	(0)	(0)	(0)
SIDELINE 200. FT.	50																
( 60.96 M)	63																
VEHICLE R-55	100	48.9	52.1	52.7	56.3	55.4	54.7	53.3	55.3	58.5	58.3						
CONFIG 1B	125	57.1	57.7	59.4	63.0	63.3	61.3	61.3	60.9	59.4	59.4						
LCC SCHEMECTADY	160	53.5	54.7	56.1	58.9	58.5	57.2	57.4	58.3	58.8	58.6						
DATE 10/31/74	200	50.9	53.6	55.0	57.8	58.9	58.9	58.8	59.2	60.1	57.9						
RUN 9/24	250	57.0	59.5	61.6	63.2	64.1	63.8	64.5	64.4	63.7	59.2						
TAPE	315	57.0	58.4	59.8	61.2	61.0	60.0	60.1	60.0	59.3	58.3						
BAR 29.9 HG	400	55.4	56.6	58.0	59.8	59.9	59.4	59.0	58.4	58.2	55.0						
(01039. N/M2)	500	53.5	55.0	56.4	59.0	58.9	59.3	58.4	58.0	57.3	53.3						
TAMB 67. DEG F	630	55.9	57.9	59.6	61.4	62.0	61.9	61.6	60.6	58.6	52.8						
(293. DEG K)	800	56.8	58.7	60.2	62.0	62.7	63.3	62.4	61.4	58.1	52.2						
T-ET 64. DEG F	1000	56.4	58.1	59.6	61.7	62.8	63.1	63.5	62.0	57.7	50.9						
(291. DEG K)	1250	56.2	58.7	61.5	63.8	65.9	66.3	65.6	63.8	58.9	51.0						
HACT 14.25 GH/M3	1600	59.1	61.5	64.4	66.9	68.0	68.3	67.1	65.9	58.7	50.1						
(.01425 KC/M3)	2000	74.9	77.3	80.2	84.3	83.1	79.9	75.2	73.9	65.8	59.9						
NFA 8080. RPM	2500	61.9	65.1	68.1	70.9	72.2	71.4	69.7	69.1	59.8	50.9						
( 846. RAD/SEC)	3150	60.1	63.0	66.5	68.8	70.9	70.5	69.0	68.9	59.3	50.1						
NFK 8018. RPM	4000	61.6	65.5	70.8	72.4	70.9	72.7	72.7	71.0	61.9	51.4						
( 840. RAD/SEC)	5000	57.0	60.9	65.0	67.6	68.6	69.9	69.3	68.6	57.5	47.2						
NFD 8023. RPM	6300	56.2	60.6	65.2	67.2	67.8	69.4	69.2	67.3	57.6	46.4						
( 924. RAD/SEC)	8000	54.5	58.4	63.0	65.0	65.0	66.4	65.9	63.9	53.6	42.1						
NO. OF BLADES 15	10000	50.8	55.5	59.7	62.7	63.2	65.5	65.0	62.0	51.3	38.1						
FAN TIP SPEED	12500	46.6	51.6	56.4	59.3	60.5	62.6	60.8	58.5	47.1	32.2						
705. FT/SEC	16000	40.2	45.3	49.4	53.4	54.6	55.8	54.9	51.3	38.1	20.0						
	20000	33.9	39.5	44.3	48.3	48.7	51.0	49.4	45.2	29.7	7.7						
	25000	25.3	30.2	36.0	39.9	40.0	42.6	40.6	35.5	17.2							
	31500	11.0	17.2	22.8	26.8	27.5	29.1	25.0	17.7								
	40000			4.2	8.5	7.7	7.2										
	50000																
	63000																
	80000																
OVERALL CALCULATED		76.1	78.7	81.8	85.3	84.6	82.9	80.7	79.4	73.0	68.1						
PND8		89.7	92.4	95.4	98.7	98.3	96.7	94.2	92.8	85.6	78.9						

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ANGLES FROM INLET IN DEGREES (AND RADIANS)

		62.	71.	81.	91.	101.	111.	122.	133.	145.	156.	0.	0.	0.	0.	0.	0.	PWL
	FREQ.	(1.08)	(1.24)	(1.41)	(1.58)	(1.76)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	(0.	(0.	(0.	(0.	(0.	(0.	
	50																	
	63																	
RADIAL	17. FT.																	
	( 5. M)																	
VEHICLE	R-55	125	69.4	75.2	72.0	73.3	71.9	70.6	65.2	71.2	74.5	77.4						
CONFIG	10	160	70.7	71.7	70.5	68.0	69.4	69.9	69.5	71.5	72.3	75.4					106.6	
LOC	SCHENECTADY	200	65.9	67.7	66.7	67.3	67.1	67.9	70.0	71.2	72.6	75.4					104.0	
DATE	10/31/74	250	63.7	67.4	67.2	68.0	69.9	71.1	72.7	73.4	75.5	77.4					103.5	
RUN	9/26	315	66.9	68.9	69.2	69.8	70.6	71.6	72.5	73.4	74.2	75.6					105.5	
TAPE		400	70.7	72.1	72.2	72.8	72.4	72.8	73.2	73.7	74.8	74.9					105.5	
BAR	29.9 HG	500	69.7	70.4	71.2	71.5	72.7	73.1	73.2	73.9	74.3	74.4					106.6	
	(01039. N/M2)	630	69.2	69.1	69.7	71.6	72.2	73.4	74.0	74.4	75.0	73.9					106.4	
TAMB	67. DEC F	800	70.9	72.7	74.0	75.1	76.2	77.4	77.8	78.2	77.5	75.7					106.4	
	(293. DEC K)	1000	72.2	73.6	74.5	75.3	76.7	77.6	79.0	79.4	78.5	74.9					106.5	
T-ET	84. DEC F	1250	73.7	74.1	75.0	76.8	78.4	79.8	81.5	81.9	81.3	74.9					106.7	
	(291. DEC K)	1600	80.0	83.6	85.1	87.6	89.2	90.1	89.5	88.7	87.5	80.7					121.5	
HACT	14.25 G/M3	2000	92.0	85.6	87.8	89.4	91.0	91.1	90.7	89.0	88.6	81.4					122.9	
	(.01425 KG/M3)	2500	75.5	77.6	79.6	82.1	83.7	85.1	85.7	85.7	84.8	7A.6					117.1	
NFA	5666. RPM	3150	76.2	78.4	81.4	83.4	86.0	88.8	88.4	88.7	86.6	79.1					119.2	
	( 593. RAD/SEC)	4000	76.7	78.6	81.1	84.7	86.7	87.7	89.4	89.4	88.3	81.1					126.2	
NFK	5623. RPM	5000	74.4	77.7	80.3	83.1	84.6	85.9	87.5	88.8	84.2	78.5					118.5	
	( 589. RAD/SEC)	6300	73.6	76.6	79.3	82.8	84.1	85.1	86.7	87.8	83.2	76.9					117.7	
NFD	8823. RPM	8000	71.1	73.3	77.6	80.1	82.0	83.8	85.7	86.7	82.1	76.7					116.3	
	( 924. RAD/SEC)	10000	68.2	70.5	75.0	77.7	79.6	81.2	84.6	84.5	81.2	75.5					114.5	
NO. OF BLADES	15	12500	67.7	70.9	74.3	77.2	78.6	81.4	83.3	84.5	80.9	75.1					114.2	
FAN TIP SPEED	16000	66.0	68.4	73.2	77.2	78.1	80.9	83.0	84.1	79.9	73.9						113.9	
	495. FT/SEC	20000	63.3	65.4	70.4	73.5	75.4	78.8	80.6	82.5	77.8	72.0					112.0	
	25000	61.7	63.9	69.6	72.1	73.8	77.3	79.5	82.2	76.9	71.5						111.6	
	31500	60.8	62.1	72.4	69.8	70.7	75.2	76.4	79.4	73.7	67.6						109.7	
	40000	59.4	60.6	65.2	66.3	68.3	72.7	74.1	76.2	71.3	65.2						107.6	
	50000	58.4	59.8	75.6	81.5	84.1	88.7	87.1	69.5	65.9	60.3						106.9	
	63000	59.9	62.6	76.7	81.4	82.4	88.4	82.9	64.4	62.4	59.2						106.7	
	80000	60.9	63.8	72.1	62.9	63.4	70.1	62.4	62.8	61.5	59.7						109.1	
OVERALL MEASURED		88.0	65.2	69.4	64.3	64.9	72.1	86.8	65.6	63.7	61.6						114.1	
OVERALL CALCULATED		87.7	98.6	93.1	94.8	96.5	97.5	98.3	98.5	96.4	90.9						130.0	
PWDB		99.9	102.8	105.0	107.0	108.8	109.8	111.1	111.4	109.8	104.0							

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	62	71	81	91	101	111	122	133	145	156	0	0	0	0	0	0
FREQ.	(1.08)	(1.24)	(1.41)	(1.58)	(1.76)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	(0)	(0)	(0)	(0)	(0)	(0)
SIDELINE 200. FT.	50															
1 60.96 M	63															
VEHICLE R-55	100	46.7	53.1	50.3	51.7	50.2	48.4	42.2	46.8	48.0	47.3					
CONFIG 1B	125	47.9	49.5	48.7	46.4	47.6	47.6	46.4	46.9	45.6	45.2					
LDC SCHEENECTAD	160	43.0	45.4	44.9	45.6	45.3	45.5	46.8	46.6	45.9	44.9					
DATE 10/31/74	200	40.7	45.1	45.3	46.2	47.9	48.7	49.4	48.7	48.5	46.7					
RUN 9/26	250	43.8	48.5	47.2	47.9	48.6	49.1	49.1	48.6	47.1	44.0					
TAPE	315	47.5	49.7	50.1	50.8	50.3	50.2	49.7	48.7	47.5	43.8					
BAR 29.9 HG	400	46.4	47.8	49.1	49.5	50.4	50.4	49.6	48.8	46.9	43.1					
(01039. N/M2)	500	45.8	46.5	47.5	49.4	45.9	50.5	50.3	49.2	47.4	42.3					
TAMB 67. DEG F	630	47.5	49.9	51.6	52.8	53.8	54.4	53.9	52.8	49.8	43.8					
(293. DEG K)	800	48.6	50.7	52.0	53.0	54.2	54.5	55.0	53.9	50.6	42.8					
T-ET 64. DEG F	1000	49.9	51.1	52.4	54.3	55.8	56.7	57.3	56.2	53.1	42.4					
(291. DEG K)	1250	56.0	60.5	63.3	65.0	66.4	66.8	65.2	62.8	59.1	47.8					
MACT14.25 CM/M3	1600	57.9	62.3	64.9	66.6	68.0	67.6	66.2	62.8	59.8	48.1					
(.31425 KG/M3)	2000	51.2	54.1	56.5	59.2	60.5	61.4	61.0	59.3	55.8	44.9					
NFA 5666. RPM	2500	51.7	54.6	54.1	60.3	62.7	62.9	63.5	62.1	57.2	44.9					
( 593. RAD/SEC)	3150	51.9	54.5	57.6	61.2	63.1	63.6	64.1	62.4	58.4	46.2					
NFK 5623. RPM	4000	49.1	53.3	56.4	59.3	60.6	61.3	61.8	61.2	53.6	42.5					
( 599. RAD/SEC)	5000	48.0	51.9	55.1	58.7	59.8	60.2	60.7	59.8	52.1	40.3					
NFD 8823. RPM	6300	44.7	47.8	52.7	55.4	57.0	58.1	58.8	57.8	49.8	38.2					
( 924. RAD/SEC)	8000	43.6	43.9	49.0	51.9	53.5	54.4	56.4	54.1	47.0	34.2					
NO. OF BLADES 15	10000	38.3	42.8	46.7	49.9	51.0	53.0	53.3	52.0	44.0	29.9					
FAN TIP SPEED 495. FT/SEC	12500	34.1	37.9	43.4	47.7	48.3	50.1	50.4	48.5	39.1	23.0					
	16000	27.3	31.0	37.0	40.4	41.8	44.1	43.7	41.8	30.5	11.6					
	20000	20.2	24.5	31.4	34.3	35.5	37.5	37.0	34.9	21.1						
	25000	11.6	15.5	27.3	25.1	25.4	28.1	25.7	22.5	5.9						
	31500		3.4	10.1	11.7	13.0	14.8	11.6	5.4							
	40000			5.5												
	50000															
	63000															
	80000															
OVERALL CALCULATED		63.4	67.0	69.6	71.6	73.1	73.3	72.9	71.1	66.8	57.7					
PNDB		75.3	79.0	81.7	83.7	85.2	85.6	85.9	84.3	79.9	69.1					



HOTEL SOUND PRESSURE LEVELS 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 635, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, 800, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 965, 970, 975, 980, 985, 990, 995, 1000

ANGLES FROM HULL TO BLADES (IN DEGREES)

	59.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.	190.	200.
SIDELINE 230. FT. ( 60.96 M )	100	47.2	48.1	53.4	54.6	52.9	51.5	48.7	44.0	45.3	46.7	45.2				
VEHICLE R-55	125	47.4	47.3	46.1	46.5	47.3	46.4	46.2	47.1	47.2	46.5	46.5				
CORFIC 2	160	47.5	44.9	45.0	45.2	47.2	46.3	47.3	47.4	47.7	47.2	44.8				
LCC SCHEMELTARY	250	44.2	44.6	45.2	46.6	49.6	49.7	45.2	50.3	49.5	46.7	46.0				
DATE 11/2/74	250	49.6	47.2	44.6	49.2	50.1	50.7	51.1	50.2	48.8	47.3	44.5				
RUN 10/4	315	45.5	48.4	49.2	50.7	50.7	51.1	51.0	50.4	48.9	47.2	43.0				
TAPE	450	47.4	45.6	49.2	49.6	51.4	51.0	50.4	50.3	48.8	46.0	41.4				
BAR 30.0 M	500	47.3	47.5	48.1	49.3	50.6	50.2	49.6	49.4	47.4	45.6	41.0				
( 101172. 1/2 )	650	49.2	48.4	50.2	51.4	52.2	52.0	52.5	52.3	51.5	49.1	41.7				
TARD 50. DEG F	800	53.9	50.5	51.9	52.6	53.1	53.7	54.3	54.4	52.9	42.1	40.8				
( 203. DEG K )	1000	49.7	49.9	51.0	52.2	52.5	54.1	54.9	55.2	53.4	47.9	40.2				
TACT 45. DEG F	1250	53.6	55.5	55.3	57.4	58.4	60.2	60.8	60.5	59.5	52.4	44.8				
( 200. DEG K )	1000	53.6	55.3	56.4	57.7	59.0	60.1	60.6	60.6	58.7	52.5	42.0				
MACT 6.37 CM/MS	2000	54.7	54.7	56.2	58.1	60.1	61.1	61.4	59.8	56.7	50.4	41.3				
( 1.00637 KM/MS )	2500	53.6	55.7	57.5	59.7	62.7	64.2	64.9	63.8	61.9	54.1	45.5				
MFA 5548. RPM	3150	51.4	54.2	56.2	59.7	62.9	63.9	63.5	63.4	62.5	52.8	44.1				
( 581. RAD/SEC )	4000	50.6	52.9	56.2	59.7	62.5	64.2	64.7	64.8	60.6	52.0	41.0				
MFK 5567. RPM	5000	47.5	51.4	53.2	58.5	61.4	62.4	62.1	61.7	58.6	49.6	39.5				
( 586. RAD/SEC )	6300	45.9	48.7	51.9	57.1	60.1	60.4	60.6	60.1	57.8	47.4	37.0				
MFD 8623. RPM	8000	42.8	45.7	48.8	55.9	57.9	58.1	58.6	57.6	54.7	44.4	33.9				
( 924. RAD/SEC )	10000	42.0	42.0	45.5	50.6	57.6	55.4	56.2	55.2	51.7	41.2	28.6				
NO. OF BLADES 15	12500	40.8	39.2	42.1	50.4	56.1	52.4	52.3	51.7	47.5	35.6	25.0				
FAN TIP SPEED	16000	34.0	32.2	35.3	53.2	54.4	46.1	46.2	45.6	39.2	27.9	14.6				
484. FT/SEC	20000	28.8	25.9	29.4	52.4	51.5	40.0	40.0	37.7	31.5	19.1	1.2				
	25000	22.0	18.9	21.1	46.6	44.5	29.7	29.4	26.3	16.6	9.5					
	31500	16.5	7.3	10.4	34.9	35.8	14.6	17.0	12.4	2.0						
	40000				18.0	20.0	1.0									
	50000															
	63000															
	80000															
OVERALL CALCULATED		63.5	64.5	66.2	69.5	71.4	72.2	72.5	72.8	69.7	63.0	56.1				
PNDC		75.5	77.4	79.2	82.4	84.9	85.9	86.2	84.0	83.7	76.2	67.5				

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MOTEL SEC 7 FRENCH LEVEL 150. 150. 70 PERCENT DEL. NUM. 1471

PAGES FROM INLET TO EGGS (OAF 4AC) (ANS)

	50.	60.	70.	72.	75.	78.	80.	85.	90.	95.	100.	110.	120.	130.	140.	150.	6.	0.	0.	0.	0.	0.	0.
SIDELINE 230. FT.	100	50.2	52.3	51.0	51.3	51.6	51.9	49.7	49.9	49.7	50.5	49.9											
VEHICLE	125	49.1	53.3	49.4	50.5	51.9	50.4	50.2	51.3	51.1	50.9	49.4											
CCNFIC	150	49.3	49.4	49.3	50.9	49.5	50.3	50.9	52.7	52.3	51.7	49.0											
LCC SCHENECTADY	200	48.7	47.9	49.7	50.1	51.0	53.0	52.7	54.5	53.4	53.9	50.9											
DATE 11/2/74	250	50.6	50.2	51.3	51.5	53.1	53.7	54.4	54.4	54.4	53.3	51.8	49.0										
W/L 13/5	315	49.7	51.7	52.7	54.4	54.0	54.0	54.3	54.3	54.3	52.0	51.7	47.5										
TAPE	400	49.2	51.1	51.7	53.1	53.7	54.3	53.4	54.0	51.7	50.3	47.0											
GAR 30.0 W	500	49.3	49.2	50.8	52.5	52.8	52.7	52.4	53.4	51.0	49.8	44.7											
(10172. W/112)	630	51.0	51.5	52.5	54.4	54.2	55.3	55.7	56.0	54.5	51.4	44.9											
TAMB 50. SEC F	800	54.5	52.7	54.1	54.9	54.6	55.7	56.4	57.0	56.9	50.9	44.3											
(243. SEC F)	1000	51.2	52.1	53.5	54.7	54.7	56.0	57.0	57.0	55.4	50.2	42.9											
T-ET 45. SEC F	1200	57.3	54.5	55.6	54.4	54.2	60.2	63.4	62.7	58.0	51.9	43.4											
(280. SEC F)	1600	64.6	64.6	65.4	66.7	65.0	67.1	66.3	64.5	66.0	57.9	40.0											
MACT 6.37 GR/M3	2000	57.2	57.7	58.2	61.7	62.1	64.0	64.1	63.0	59.5	52.3	47.2											
(1.00037 40/M3)	2500	55.0	58.2	59.5	62.9	64.2	67.7	65.0	65.0	61.7	54.2	46.7											
NFA 6363. 4PM	3150	55.4	58.7	61.0	64.2	67.2	68.4	70.0	68.0	66.1	57.9	47.0											
( 690. RAD/SEC)	4000	53.1	56.2	59.5	63.2	66.0	66.9	66.7	66.5	62.0	54.2	43.3											
NFA 6416. 4PM	5000	52.2	57.1	60.2	63.5	65.7	66.4	66.0	66.4	62.0	53.2	42.0											
( 672. RAD/SEC)	6300	49.7	53.4	56.1	60.4	62.6	64.4	64.3	63.8	59.4	51.0	39.5											
NFA 6023. 4PM	8000	46.3	52.2	55.0	59.3	60.7	61.0	62.4	61.3	54.4	40.2	35.3											
( 624. RAD/SEC)	10000	43.7	46.9	50.5	54.3	54.5	60.1	58.7	54.4	46.2	30.3												
NC. OF BLADES 15	12500	41.3	43.2	47.4	54.9	55.6	59.9	56.0	55.0	40.9	41.7	22.4											
FAN TIP SPEED	18000	34.0	30.0	40.3	55.7	44.4	56.1	49.5	42.2	47.3	39.2	8.3											
559. FT/SEC	20000	29.3	20.6	34.6	52.1	42.5	43.2	43.5	42.4	34.4	27.4												
	25000	22.3	21.6	25.6	48.1	34.7	34.2	34.2	31.2	21.7	12.1												
	31500	16.2	19.3	14.0	36.3	25.3	23.4	21.3	14.9	5.4													
	40000				25.7	8.5	5.0	3.0															
	50000				5.0																		
	63000																						
	80000																						
OVERALL CALCULATED		67.8	68.9	73.4	72.3	74.4	76.0	76.0	75.0	73.0	66.0	59.0											
PROP		80.5	81.7	83.3	86.4	88.4	89.7	89.4	89.7	87.0	79.0	70.5											



MODEL S101 PRESSURE LOSS IN 100 FT. OF 20 PERCENT UCL. DUCT. (A9)  
 NUMBER OF INLET BLADES FOR EACH INLET

22

	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
FREQ.	11.021	11.19	11.36	11.53	11.71	11.88	12.06	12.24	12.42	12.60	12.77	12.95	13.13	13.31	13.49	13.67
RADIAL 17. FT.	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
VEHICLE ( S. M.)	100	79.5	71.8	71.7	75.4	72.3	73.0	73.2	75.1	77.0	81.9	85.1	88.0	91.0	94.0	97.0
CONFIG 2	160	74.2	74.5	73.4	74.4	74.5	75.8	77.2	79.4	81.1	84.2	85.0	86.2	87.0	87.5	88.0
LCC SCHEMECTAD	200	73.7	72.6	73.2	74.6	76.3	77.3	78.7	81.4	81.7	84.5	85.0	86.0	86.5	87.0	87.5
DATE 11/2/74	250	75.7	75.8	77.2	77.0	78.9	79.5	80.7	81.9	83.1	84.3	85.0	85.5	86.0	86.5	87.0
RLI 1370	315	76.0	77.6	78.2	77.9	79.3	80.0	80.4	82.1	82.1	83.6	84.0	84.5	85.0	85.5	86.0
TAPE	400	75.0	77.1	77.2	77.4	78.3	79.5	79.8	81.1	81.3	82.9	83.1	83.5	84.0	84.5	85.0
RAF 30.3 Hz	520	75.7	75.1	75.3	77.4	77.5	78.3	78.4	81.1	81.3	82.4	82.9	83.5	84.0	84.5	85.0
10172. Hz/21	630	76.0	77.8	78.2	77.4	79.0	81.1	81.6	83.1	83.3	83.7	84.0	84.5	85.0	85.5	86.0
TAMM 50. DEG F	800	83.1	73.5	76.2	80.4	80.1	81.6	82.9	84.0	84.6	85.4	86.0	86.5	87.0	87.5	88.0
1203. DEG W	1000	73.1	74.1	76.9	79.7	80.1	82.3	83.4	84.6	84.8	85.4	86.0	86.5	87.0	87.5	88.0
TAET 45. DEG F	1250	78.9	78.6	80.4	81.2	83.1	85.0	87.2	87.6	87.3	87.5	88.0	88.5	89.0	89.5	90.0
1206. DEG K	1600	84.4	85.6	84.7	87.5	88.6	89.0	89.9	92.0	92.0	92.4	93.0	93.5	94.0	94.5	95.0
MACT 0.37 CH/MS	2000	84.6	87.2	86.7	89.0	91.4	92.0	93.4	94.1	94.6	95.5	96.0	96.5	97.0	97.5	98.0
1-50037 46/MS	2500	82.6	84.2	85.4	88.6	90.4	92.1	92.1	92.8	93.6	94.5	95.0	95.5	96.0	96.5	97.0
MFA 7130. RPM	3150	82.6	84.7	86.6	90.3	92.4	94.4	94.3	95.9	94.8	95.3	96.0	96.5	97.0	97.5	98.0
1 747. RAD/SEC	4000	82.8	85.4	87.8	91.0	94.1	95.0	96.5	97.0	95.5	96.2	97.0	97.5	98.0	98.5	99.0
MFK 3202. RPM	5000	81.2	84.6	87.0	91.5	93.4	95.3	95.4	95.0	93.2	94.7	95.7	96.2	96.7	97.2	97.7
1 750. RAD/SEC	6200	79.0	82.6	85.2	89.9	91.7	93.7	93.9	95.2	91.5	92.9	93.3	93.8	94.3	94.8	95.3
MFC 8023. RPM	8000	77.9	81.5	83.5	88.4	90.5	92.4	93.7	94.4	94.0	94.6	95.0	95.5	96.0	96.5	97.0
1 824. RAD/SEC	10000	76.7	79.8	83.2	88.4	90.2	92.2	93.5	94.7	91.0	92.6	93.5	94.0	94.5	95.0	95.5
NO. OF BLADES 15	12500	75.9	77.5	82.1	88.5	89.1	91.0	92.3	93.3	89.7	90.5	91.0	91.5	92.0	92.5	93.0
FAH TIP SPEED	15000	72.6	75.2	78.7	80.1	86.8	89.0	89.7	91.1	87.5	88.6	89.0	89.5	90.0	90.5	91.0
620. FT/SEC	20000	73.3	73.3	77.6	81.0	84.9	87.0	86.6	91.4	87.0	89.0	89.0	89.5	90.0	90.5	91.0
	25000	74.1	72.4	76.0	83.3	85.3	85.3	87.6	88.8	86.3	89.5	89.5	90.0	90.5	91.0	91.5
	31500	73.1	71.0	75.0	82.7	82.8	84.7	84.1	87.6	85.7	88.4	88.4	89.0	89.5	90.0	90.5
	40000	73.4	70.4	73.3	84.3	80.4	82.0	84.2	85.5	83.7	87.5	87.5	88.0	88.5	89.0	89.5
	50000	74.2	68.9	71.3	85.9	78.0	79.5	81.7	83.4	81.5	86.0	86.0	86.5	87.0	87.5	88.0
	63000	79.5	68.4	70.0	83.0	73.6	74.0	75.9	81.2	79.7	83.5	83.5	84.0	84.5	85.0	85.5
	80000	83.1	70.3	72.7	87.5	71.1	73.1	72.8	82.2	81.0	79.3	79.3	79.8	80.3	80.8	81.3
OVERALL MEASURED																
OVERALL CALCULATED		94.2	95.1	96.5	104.0	102.2	104.0	104.7	105.7	103.4	101.5	97.5				130.1
PRCP		106.5	108.2	109.9	113.4	115.3	117.0	117.6	118.4	116.8	112.9	109.6				

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	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	U <sub>1</sub>	U <sub>2</sub>	U <sub>3</sub>	U <sub>4</sub>	U <sub>5</sub>
FRIC (10 <sup>-2</sup> )	(1.2)	(1.1)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	U <sub>1</sub>	U <sub>2</sub>	U <sub>3</sub>	U <sub>4</sub>	U <sub>5</sub>
SICELINE 200. FT.	63															
( 60.96 M)	100	49.0	59.6	52.7	57.3	51.4	54.5	53.2	57.6	55.1	50.3	57.7				
VEHICLE R-SS	100	55.6	55.0	55.1	57.4	59.8	60.1	58.7	59.8	59.1	59.4	57.7				
CONFIG 2	100	52.5	54.7	54.5	56.1	56.5	57.0	57.8	58.9	59.0	59.5	56.7				
LCC SCHEMECTADY	200	52.2	52.5	53.4	55.4	57.6	58.7	58.5	60.0	59.4	60.3	58.0				
DATE 11/2/74	250	54.1	56.7	58.6	59.7	60.3	61.4	61.8	61.6	60.5	60.4	57.7				
RUL 10/8	315	55.5	57.9	58.7	59.5	60.2	61.0	60.8	60.6	59.4	59.2	58.7				
TAPE	400	54.9	57.1	57.9	58.5	59.1	60.0	59.9	60.0	58.5	57.6	54.0				
BAR 31.0 MG	500	51.3	55.5	56.3	58.2	58.3	59.0	58.8	58.1	57.6	58.6	52.4				
(01172. M/M2)	600	55.7	57.4	58.0	59.9	60.2	61.5	61.2	61.2	58.5	57.2	51.8				
TAIB 50. JEG F	800	57.6	58.2	59.1	60.4	61.4	61.7	61.8	62.6	60.7	58.4	51.0				
(283. JEG K)	1000	56.2	57.9	58.7	59.9	60.2	62.1	62.4	62.7	59.8	54.9	49.9				
TRET 45. JEG F	1200	56.8	58.5	59.8	60.5	63.1	64.7	65.3	65.0	61.8	55.7	49.0				
(286. JEG K)	1600	57.1	60.8	61.2	63.7	65.0	66.5	65.8	65.5	62.4	55.5	47.8				
MACT 6.37 GM/M3	2000	64.2	66.7	65.9	72.1	73.1	76.6	75.6	74.0	68.4	61.5	51.7				
(.00837 KG/M3)	2500	60.7	64.2	65.8	68.6	70.4	71.2	70.5	70.5	68.4	57.5	49.4				
NFA 7337. RPM	3100	59.9	62.7	65.7	68.9	70.7	71.9	70.8	72.4	66.4	59.1	49.6				
( 831. RAD/SEC)	4000	61.1	64.2	66.3	71.7	73.2	74.9	74.7	73.8	67.4	60.5	50.0				
NFK 8007. RPM	5000	57.7	62.6	65.2	70.4	71.7	72.4	72.9	71.1	64.7	57.2	46.6				
( 838. RAD/SEC)	6300	55.9	60.9	64.4	69.3	70.3	72.1	71.1	71.0	62.9	58.0	48.0				
NFD 8823. RPM	8000	52.5	57.9	61.3	67.0	67.7	69.1	68.9	68.8	60.8	52.2	40.8				
( 924. RAD/SEC)	10000	49.7	55.1	59.8	67.0	66.2	67.1	67.4	66.1	58.8	50.5	38.0				
NO. OF BLADES 15	12500	46.3	51.9	56.4	65.9	64.1	64.4	64.0	62.9	53.5	45.4	29.7				
FAH TIP SPEED	16000	38.5	44.7	49.3	62.4	57.7	57.0	57.2	55.5	45.8	38.0	17.1				
693. FT/SEC	20000	37.8	48.6	43.9	57.5	53.0	51.7	52.0	48.9	38.9	29.2	8.4				
	25000	25.0	26.9	35.6	52.3	45.0	43.6	43.2	39.7	28.7	15.0					
	31500	12.2	18.3	24.2	37.5	32.2	31.8	29.8	25.1	11.1						
	40000		6.1	6.9	19.9	14.9	14.1	11.0	2.6							
	50000				0.9											
	63000															
	80000															
OVERALL CALCULATED		70.7	73.5	75.7	77.7	80.8	82.4	81.9	81.4	76.1	71.3	64.7				
PNCB		83.8	86.9	89.6	93.2	94.5	96.0	95.5	95.2	89.6	83.7	75.3				

VALUES FROM INPUT TO BE USED IN CALCULATIONS

	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
RACIAL 17. FT.	100	70.0	69.8	74.7	74.5	74.5	73.5	71.2	67.4	70.4	75.1	70.0				107.0
VEHICLE ( 5. M)	100	71.7	70.1	73.7	67.1	70.3	68.0	67.0	70.6	72.7	74.1	74.1				106.0
CONFIG 2	100	70.0	67.1	66.3	67.4	69.0	69.0	70.0	71.7	72.6	74.5	74.0				106.0
LCC SCHEMECTARY	200	71.5	66.8	67.7	67.1	69.8	71.5	72.4	74.2	75.7	74.9	70.0				106.0
DATE 11/2/74	200	74.3	69.3	70.7	71.4	71.3	73.0	73.0	74.4	74.7	75.1	77.1				107.0
RUN 10/9	315	70.2	70.0	71.7	72.4	72.5	74.0	73.7	74.4	74.7	75.9	78.1				107.0
TAPE 400	71.0	71.1	70.9	71.4	72.3	73.5	73.4	74.4	74.4	74.4	74.9	76.1				106.0
BAR 30.0 MS	500	71.5	70.1	69.3	71.2	71.5	72.5	72.7	73.5	73.9	74.4	75.5				106.0
(01172. H/M2)	600	73.1	72.3	72.7	73.2	73.5	75.3	75.9	77.2	77.4	77.4	75.3				106.0
TAMP 50. DEG F	800	77.8	73.5	74.2	74.7	75.1	76.3	77.0	79.2	79.9	77.4	74.4				110.0
(203. DEG W)	1000	73.3	73.1	73.4	74.4	74.6	77.3	78.4	80.4	79.9	77.4	75.0				110.0
TLET 45. DEG F	1200	78.1	79.1	77.9	80.5	81.4	83.0	84.0	86.2	86.9	83.7	77.3				110.0
(200. DEG W)	1600	73.4	79.1	78.7	80.5	81.6	83.4	84.1	85.7	84.2	82.4	77.1				110.0
MACT 0.37 GM/MS	2000	72.4	72.7	72.4	71.3	72.9	74.1	74.8	74.9	73.9	70.9	70.3				110.0
(.00037 KG/MS)	2500	77.9	79.4	80.4	83.7	84.9	87.4	87.1	89.4	89.4	84.4	81.3				120.0
NFA 5544. RPM	3100	75.0	77.9	79.0	80.1	80.7	82.5	82.5	84.5	84.5	84.7	81.0				120.0
( 580. RAC/SEC)	4300	76.3	77.9	79.6	82.3	83.4	85.1	85.0	87.0	87.0	84.4	80.0				110.0
NFK 5903. RPM	5000	77.5	76.3	77.7	82.5	84.9	86.6	87.4	87.2	87.0	82.1	77.9				110.0
( 580. RAC/SEC)	6300	72.3	74.4	76.4	81.2	83.5	85.5	86.7	86.0	86.4	81.5	77.5				117.0
NFD 6823. RPM	8000	71.4	72.5	74.7	80.9	81.5	84.1	85.5	86.7	86.4	80.5	77.1				110.0
( 924. RAC/SEC)	10000	71.2	70.9	73.5	81.2	81.2	83.7	85.2	86.0	85.8	80.3	77.0				110.0
NG. OF BLADES 15	12500	72.0	69.5	72.3	82.7	81.4	82.4	84.3	86.1	84.7	79.4	77.0				110.0
FAN TIP SPEED	16000	70.7	67.3	69.9	84.4	79.0	80.0	81.4	83.6	81.4	77.2	75.5				115.0
484. FT/SEC	20000	71.3	65.8	67.9	84.3	79.1	78.5	80.4	82.2	81.7	78.3	76.0				115.0
	25000	71.9	65.7	66.6	85.5	77.5	76.0	78.6	80.1	79.4	77.2	75.3				115.0
	31500	71.9	65.0	66.2	82.4	75.0	75.7	77.3	76.6	74.5	70.3	70.1				110.0
	40000	73.0	64.5	65.5	78.8	71.1	73.0	76.0	74.3	76.0	76.2	67.1				113.0
	50000	75.9	66.6	67.3	77.5	70.3	71.7	73.2	73.9	72.3	77.3	69.4				113.0
	63000	75.5	67.1	69.0	74.5	68.5	70.4	70.9	70.3	69.3	74.7	72.3				115.0
	80000	63.1	70.0	72.7	71.2	70.6	72.1	72.3	72.6	71.1	71.2	70.0				121.0
OVERALL MEASURED																120.0
OVERALL CALCULATED		90.2	88.6	89.6	85.2	74.0	90.0	97.6	98.9	98.4	94.5	91.7				120.0
PM2.5		100.7	101.5	102.7	105.6	109.0	109.0	110.5	112.2	111.8	107.3	104.1				120.0

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MODEL SOUND PRESSURE LEVELS (NO. OF BLADES 70 PERCENT SET, NUM. EAV)  
 ANGLE FROM INLET TO BLADES (AND DECLIN)

FREQ.	ANGLE FROM INLET TO BLADES (AND DECLIN)															
	5a	6a	7a	8a	9a	10a	11a	12a	13a	14a	15a	16a	17a	18a	19a	20a
50	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
63	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
80	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
SIDELINE 200 FT. ( 60.96 M )	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
VEHICLE R-55	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
CONFIG 2	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
LCC SCHEMATIC	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
DATE 11/2/74	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
RM 1C/9	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
TAPE	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
BAR 30.0 FG	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
(01172. N/M)	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
TAMB 50. DEC F	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
(243. DEC R)	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
TACT 45. DEC F	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
(280. DEC R)	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
HACT 6.37 GM/M3	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
(0.0037 KG/M3)	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
MFA 5544. RPM	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
( 500. RAD/SEC)	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
MFK 5503. RPM	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
( 500. RAD/SEC)	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
MFD 8023. RPM	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
( 924. RAD/SEC)	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
NO. OF BLADES 15	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
FAN TIP SPEED	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
404. FT/SEC	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
25000	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
31500	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
40000	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
50000	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
63000	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
80000	47.0	47.6	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7	54.2	54.7
OVERALL CALCULATED	63.6	64.5	65.9	69.1	70.6	72.0	72.0	71.8	69.5	62.8	56.0					
PNCB	75.5	77.3	79.0	82.2	84.2	85.0	85.5	85.7	83.3	75.8	67.2					

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ANGLES FROM INLET IN DEGREES (AND RADIANS)

	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	0.	0.	0.	0.	0.	0.
FREQ.	(1.02)	(1.19)	(1.36)	(1.53)	(1.71)	(1.90)	(2.06)	(2.24)	(2.42)	(2.60)	(2.78)	(0.	(0.	(0.	(0.	(0.	(0.)
SIDELINE 200. FT.	50																
( 60.96 M )	63																
VEHICLE R-99	100	44.2	49.8	53.7	55.8	55.4	53.2	50.2	45.6	47.8	46.0	43.2					
CONFIG JA	125	43.1	45.5	48.1	47.7	47.3	46.4	45.9	47.3	48.2	44.3	41.3					
LOC SCHENECTADY	160	42.3	44.4	44.0	45.4	46.0	46.1	47.1	46.9	49.6	45.9	41.8					
DATE 11/11/74	200	41.2	44.1	43.7	45.8	47.9	49.0	49.7	50.1	50.7	47.7	44.0					
RUN 13/2	250	43.6	46.2	47.3	49.0	49.6	49.9	50.4	49.5	49.8	46.3	42.0					
TAPE	315	43.8	46.7	47.8	49.2	50.0	49.8	50.0	49.9	50.4	46.2	40.8					
BAR 29.8 HG	400	42.7	45.6	46.9	48.1	49.2	49.8	49.4	49.8	50.8	45.5	38.8					
( 103494. N/M2 )	500	42.1	44.7	45.8	48.0	49.3	49.7	50.6	49.4	50.2	43.8	37.5					
TAMB 46. DEG F	600	43.8	47.1	48.2	50.4	51.7	53.3	53.0	51.8	52.8	46.9	36.9					
( 281. DEG K )	800	45.9	48.5	49.1	51.6	52.9	53.2	53.8	54.1	53.8	47.1	37.8					
TWET 43. DEG F	1000	44.0	47.1	50.0	51.7	52.5	54.1	54.7	54.5	54.6	46.1	38.2					
( 1279. DEG K )	1250	47.4	52.2	54.9	56.1	58.4	59.0	61.5	61.0	60.7	52.6	42.3					
MACT 6.42 CM/M3	1800	47.9	53.6	55.4	56.5	58.5	59.3	60.8	60.1	59.2	51.0	39.3					
( 0.00842 KG/M3 )	2000	48.7	53.6	55.2	56.1	59.8	61.1	60.6	59.1	56.9	48.7	37.5					
NFA 5548. RPM	2500	50.8	55.7	57.3	60.4	62.9	64.2	65.1	63.3	62.4	53.1	42.0					
( 581. RAD/SEC )	3150	48.4	53.9	56.2	59.9	62.4	63.4	63.5	62.7	62.4	52.3	40.9					
NFK 5617. RPM	4000	46.8	53.7	56.2	59.5	62.7	63.4	64.0	63.3	60.7	50.9	38.8					
( 588. RAD/SEC )	5300	45.8	51.6	54.4	58.2	61.2	62.1	62.6	61.9	59.5	49.1	36.3					
NFD 8823. RPM	6300	42.9	48.9	51.9	55.9	58.8	60.3	61.3	59.8	58.7	46.6	34.3					
( 924. RAD/SEC )	8000	39.8	45.6	48.8	53.5	56.2	57.1	58.6	56.9	55.0	42.8	29.4					
NO. OF BLADES 15	10000	37.0	42.6	46.5	51.8	53.9	55.6	56.2	54.9	53.9	40.1	25.0					
FAN TIP SPEED	12500	32.8	38.6	42.3	47.6	51.1	52.1	52.5	52.6	49.4	34.3	16.0					
484. FT/SEC	16000	26.5	32.1	35.0	41.2	44.4	44.7	46.2	44.2	42.1	24.1	2.0					
	20000	21.5	25.8	29.3	35.8	37.9	39.4	39.2	38.6	34.3	14.3						
	25000	14.0	19.0	20.3	26.0	29.1	29.6	29.3	28.7	21.0							
	31500	2.8	8.3	9.5	17.0	18.9	19.8	17.1	12.8	5.5							
	40000				1.5	2.0	1.4										
	50000																
	63000																
	80000																
OVERALL CALCULATED	58.6	63.6	65.7	68.6	70.9	71.8	72.5	71.5	70.4	61.7	53.2						
PNDB	71.5	76.9	78.8	82.1	84.5	85.3	86.0	85.1	84.2	74.8	64.8						



	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	159.	0.	0.	0.	0.	0.	0.
PREC.	(1.02)	(1.19)	(1.36)	(1.53)	(1.71)	(1.88)	(2.06)	(2.24)	(2.42)	(2.60)	(2.78)	(0.	(0.	(0.	(0.	(0.	(0.)
SIDELINE 200. FT.	50																
( 60.96 M )	63																
VEHICLE	100	48.5	50.6	49.2	49.6	49.9	52.0	52.2	49.6	50.8	49.3	47.4					
CCNYIC 3A	125	45.4	48.5	56.1	51.7	50.3	49.7	49.4	49.8	50.4	49.1	48.0					
LCC SCHENECTADY	160	44.8	47.7	48.0	49.4	49.2	49.1	50.6	50.7	52.1	51.0	48.3					
DATE 11/11/74	200	44.5	44.3	47.4	50.6	51.8	52.7	53.0	53.6	53.2	52.3	47.7					
RUN 13/3	250	48.9	49.2	51.1	53.7	53.1	53.2	54.1	53.0	52.8	50.9	45.7					
TAPE	315	47.8	50.4	52.3	53.2	54.0	53.8	53.8	53.4	53.0	50.7	45.2					
BAR 29.8 HG	400	46.4	48.6	53.2	51.8	52.4	52.8	53.4	52.8	53.0	49.3	43.8					
100494. N/P2)	500	44.9	47.3	48.6	51.0	51.8	52.4	53.8	52.4	52.0	48.1	41.2					
TAMB 46. DEG F	600	46.3	49.4	51.0	52.9	54.7	55.8	55.5	54.3	54.3	49.9	41.6					
(281. DEG K)	800	48.1	50.5	52.4	54.1	55.1	55.5	54.3	54.1	55.8	50.2	41.3					
TACT 43. DEG F	1000	46.2	50.1	52.2	53.9	55.3	55.8	57.2	57.5	56.4	49.4	39.7					
(279. DEG K)	1250	48.1	52.2	54.8	55.6	57.6	59.8	60.3	60.3	57.9	50.7	40.8					
NACT 6.42 CM/MS	1600	56.2	60.1	64.9	61.7	63.0	64.1	66.3	67.1	64.7	55.9	46.0					
(.00642 KG/MS)	2000	51.4	56.1	57.7	60.3	62.3	63.4	64.1	62.3	59.1	50.8	40.5					
NFA 6344. RPM	2500	51.9	57.2	58.8	61.9	63.9	64.9	65.4	64.1	60.6	52.2	41.7					
( 664. RAD/SEC)	3150	52.9	58.7	60.7	64.4	67.2	67.8	70.5	68.9	64.7	56.8	44.8					
NPK 6425. RPM	4000	49.8	55.9	59.2	63.8	65.3	65.8	67.0	65.5	61.7	52.9	40.5					
( 673. RAD/SEC)	5000	48.7	55.9	58.9	62.3	65.7	67.6	67.1	66.4	61.0	52.4	39.7					
NPD 8823. RPM	6300	48.4	52.9	55.9	60.6	62.8	64.3	64.3	64.1	60.4	49.7	37.2					
( 924. RAD/SEC)	8000	43.5	49.4	53.5	54.8	59.9	61.6	63.4	61.4	58.1	46.5	32.3					
NO. OF BLADES 15	10000	40.7	46.8	51.0	57.8	58.8	59.1	60.9	60.1	55.6	43.8	28.8					
FAN TIP SPEED	12500	39.1	43.1	47.1	52.4	54.9	56.1	57.2	56.1	51.6	38.1	28.1					
554. FT/SEC	16000	29.7	35.1	40.2	45.4	48.6	49.2	50.2	48.5	45.1	26.9	8.3					
25000	20000	23.5	29.6	34.5	42.8	42.7	43.1	44.2	42.6	37.1	17.4						
31500	25000	15.7	21.3	26.8	33.5	33.6	34.3	34.1	31.2	25.2	1.8						
40000	31500	4.6	10.1	13.8	25.4	22.9	23.8	21.9	17.3	6.5							
50000	40000			8.7	9.3	6.0	5.4	3.8									
63000	50000																
80000	63000																
OVERALL CALCULATED		62.3	66.9	69.8	71.9	74.0	75.1	76.3	75.3	72.1	64.7	56.8					
PNOB		75.2	80.4	82.8	85.9	88.1	88.8	89.7	89.5	86.1	78.4	67.5					

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MODEL SOUND PRESSURE LEVELS (50, DEG. F. 70 PERCENT REL. HUM. EAV)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	50	60	70	80	90	100	110	120	130	140	150	0	0	0	0	0	0
PRGC.	(1.02)	(1.19)	(1.36)	(1.53)	(1.71)	(1.88)	(2.06)	(2.24)	(2.42)	(2.60)	(2.78)	0	0	0	0	0	0
SIDELINE 200. FT.	50																
( 80.96 M )	63																
VEHICLE R-95	100	43.7	48.8	49.9	50.1	50.6	50.2	50.7	49.6	52.1	53.3	51.2					
CONFIG 3A	125	50.1	55.5	55.1	55.2	53.3	50.7	55.4	54.6	53.7	52.8	50.7					
LCC SCHENECTADY	160	47.8	50.9	50.8	52.4	52.5	50.3	53.8	54.4	55.3	54.5	50.7					
DATE 11/11/74	200	47.5	48.8	50.2	52.1	54.1	50.2	56.8	56.8	56.8	55.8	51.5					
RUN 13/4	250	50.1	52.7	54.6	56.8	57.1	50.7	57.6	56.7	56.3	54.6	50.8					
TAPE	315	51.3	53.4	55.8	56.2	57.8	57.8	56.8	56.4	56.5	54.5	49.8					
BAR 20.8 MC	400	49.7	51.4	53.2	54.3	55.4	56.5	56.2	56.8	55.3	53.1	47.2					
( 106494. 4/72 )	500	49.1	50.3	51.6	53.5	55.1	55.7	57.1	55.4	54.7	52.1	45.4					
TAND 47. DEG F	600	49.3	52.1	54.2	56.2	57.5	58.6	58.5	57.5	56.5	52.8	45.6					
( 281. DEG K )	800	53.4	53.5	54.6	56.5	57.9	58.2	58.8	58.9	57.1	52.2	44.5					
THET 43. DEG F	1000	49.5	52.9	53.5	56.7	57.5	58.8	59.7	59.7	57.8	54.8	43.4					
( 279. DEG K )	1250	50.4	54.2	56.6	57.1	59.9	61.2	62.5	62.3	59.5	51.4	43.5					
NACT 6.12 GM/MS	1500	53.7	60.1	61.2	63.7	65.3	67.1	65.6	65.3	63.2	53.1	43.5					
( 1.08612 KG/MS )	2000	56.2	62.2	63.8	64.3	68.3	69.1	68.4	66.6	64.2	54.5	44.2					
MFA 7144. RPM	3150	54.9	60.2	63.8	66.7	68.9	69.4	70.8	68.2	66.8	56.4	45.3					
( 740. RAD/SEC )	4000	54.6	63.9	64.8	67.5	69.7	71.2	72.8	70.3	66.3	56.5	45.3					
NFX 7228. RPM	5000	53.8	63.1	62.9	66.7	68.2	70.6	69.9	64.4	63.8	53.9	41.7					
( 757. RAD/SEC )	6300	50.2	58.9	60.1	64.6	66.6	68.1	68.1	67.3	61.2	52.2	39.5					
MFD 6823. RPM	8000	47.5	53.9	58.1	61.8	64.4	65.4	64.4	64.9	58.9	48.7	35.6					
( 924. RAD/SEC )	10000	45.3	52.1	56.1	59.8	62.7	64.1	64.4	62.4	57.4	46.7	30.6					
NO. OF BLADES 15	12500	48.9	47.9	51.9	56.4	59.1	60.7	66.8	59.7	52.5	48.9	23.4					
FAN TIP SPEED	16000	34.1	48.2	45.8	49.7	52.2	53.8	54.8	52.8	43.8	38.2	9.3					
624. FT/SEC	20000	26.9	34.1	39.6	44.1	46.5	47.7	48.5	46.2	36.7	28.9						
	25000	17.6	25.4	31.3	35.9	38.8	39.2	38.9	38.8	25.3	9.8						
	31500	6.8	14.8	19.4	24.5	26.2	27.8	28.8	28.9	8.8							
	40000			3.3	7.9	9.6	10.8	7.5									
	50000																
	63000																
	80000																
OVERALL CALCULATED		64.7	70.8	72.2	75.4	77.5	78.8	79.7	77.5	74.8	68.8	60.2					
PRGB		77.8	83.4	85.9	88.1	91.2	92.8	92.9	91.5	88.8	79.6	69.8					

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		50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	0.	0.	0.	0.	0.	0.	0.	
	PRES.	(1.02)	(1.10)	(1.18)	(1.26)	(1.33)	(1.41)	(1.49)	(1.56)	(1.64)	(1.72)	(1.80)	(1.88)	(1.96)	(2.04)	(2.12)	(2.20)	(2.28)	(2.36)	
RADIAL 17. FT.	50																			
( S. M)	63																			
VEHICLE B-SS	80																			
COMPIC 34	130	71.2	77.0	74.6	74.3	75.0	76.0	76.4	76.9	80.2	84.7	86.0								
LCC SCHEMECTAC	125	70.5	77.0	77.1	79.1	81.0	82.2	82.4	83.2	84.2	85.2	86.2								
DATE 11/11/74	160	75.2	77.3	77.1	77.6	78.0	79.0	80.2	81.7	83.7	85.4	87.2								
RLM 13/3	200	74.7	79.3	75.9	76.8	79.3	81.2	81.7	83.7	85.4	87.2	89.0								
TAPE	250	77.5	79.5	81.1	82.1	82.8	83.2	84.4	85.2	86.4	87.2	88.0								
BAR 20.0 MG	315	70.2	79.5	80.4	81.1	82.0	83.0	83.2	84.4	85.7	86.4	85.3								
(10000. N/HR)	400	77.3	78.5	79.4	79.3	81.0	81.5	82.7	84.2	84.6	85.2	83.8								
TAMP 40. DEG F	500	75.3	77.3	77.6	79.4	80.0	81.3	83.2	83.4	84.2	84.7	82.3								
(202. DEG F)	630	77.1	78.0	79.0	81.4	82.0	84.5	84.7	85.4	85.7	85.9	82.3								
(44. DEG F)	800	70.8	81.3	81.9	82.6	84.1	84.3	85.2	86.4	86.4	84.7	81.0								
(120. DEG F)	1000	77.1	79.3	81.4	82.1	82.8	84.5	85.7	87.2	86.4	83.2	80.3								
(200. DEG F)	1250	70.1	81.1	82.4	83.2	84.0	86.0	86.4	88.0	88.4	84.2	80.0								
(400. DEG F)	1500	70.6	83.1	84.4	85.8	87.1	88.0	89.6	89.0	89.4	84.8	79.0								
(800. DEG F)	2000	80.4	88.1	89.9	92.2	94.9	97.3	97.1	94.1	94.2	90.0	83.1								
(1600. DEG F)	2500	82.5	88.8	89.1	91.0	92.7	93.0	94.0	95.4	92.2	87.0	82.1								
(3200. DEG F)	3000	82.6	87.3	89.0	91.0	94.7	95.0	96.1	96.0	93.7	88.5	82.3								
(6400. DEG F)	3150	83.3	90.0	91.0	94.0	96.4	98.5	99.0	99.5	97.0	93.4	87.2								
(12800. DEG F)	4000	82.2	87.0	89.0	93.7	95.3	97.5	97.4	97.7	95.3	88.4	82.4								
(25600. DEG F)	6300	81.8	86.0	88.0	92.1	95.2	97.2	97.4	96.2	94.0	89.1	83.0								
(51200. DEG F)	8030	79.0	85.2	87.9	91.0	93.1	95.0	96.0	96.2	92.9	87.0	81.0								
(102400. DEG F)	10000	79.1	84.0	88.2	91.1	93.4	95.2	96.5	97.4	93.3	88.3	81.0								
(204800. DEG F)	12500	78.1	83.2	86.7	90.1	92.6	94.3	96.0	97.0	93.2	87.4	81.0								
(409600. DEG F)	16000	75.0	80.2	83.1	86.5	89.2	91.0	93.4	94.3	89.5	84.3	78.2								
(819200. DEG F)	20000	70.0	79.2	82.0	86.2	88.3	90.0	93.6	94.7	90.0	83.0	77.2								
(1638400. DEG F)	25000	70.1	78.0	81.7	84.9	87.4	89.5	92.0	93.5	90.1	83.7	76.0								
(3276800. DEG F)	31500	70.5	78.2	80.0	83.7	86.2	88.4	90.7	92.1	88.2	82.0	74.7								
(6553600. DEG F)	40000	77.0	77.2	80.2	82.4	84.0	85.4	88.0	88.7	84.2	78.0	71.0								
(13107200. DEG F)	50000	80.0	77.7	82.1	81.5	82.7	84.0	86.1	85.1	82.0	77.5	68.0								
(26214400. DEG F)	63000	82.0	78.2	83.0	80.0	82.4	82.0	80.0	78.0	77.1	71.4	60.4								
(52428800. DEG F)	80300	84.4	79.3	83.7	81.2	81.0	82.1	76.1	74.3	73.0	71.1	60.4								
OVERALL MEASURED																				
OVERALL CALCULATED		94.0	90.0	100.1	102.0	104.0	106.0	107.0	100.2	105.3	101.3	97.0								
FROM		100.7	111.0	113.3	115.5	117.7	119.0	120.1	120.7	116.7	110.9	110.0								

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	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	0.	0.	0.	0.	0.
PREC.	(1.02)	(1.19)	(1.36)	(1.53)	(1.71)	(1.88)	(2.06)	(2.24)	(2.42)	(2.60)	(2.78)	0.	0.	0.	0.	0.
SIDE LINE 200. FT.	50	43	80	100	125	150	175	200	225	250	275	300	325	350	375	400
( 60.00 W)	48.2	50.0	52.9	52.0	54.1	54.0	53.7	53.1	54.8	57.0	55.4					
VEHICLE R-35	55.4	55.5	55.3	57.4	60.0	60.1	59.7	59.3	59.6	57.9	55.7					
CONFIG JA	52.3	54.0	55.2	55.0	57.0	56.8	57.3	57.7	59.3	58.2	54.2					
LDC SCHEMECTABY	200	51.4	52.0	53.9	55.0	57.4	59.0	54.7	50.6	59.7	59.1	55.5				
DATE 11/11/74	250	54.1	56.9	59.0	60.2	60.8	60.9	61.4	61.0	60.6	58.9	54.5				
R.N 13/5	315	54.7	56.0	58.2	59.1	60.0	60.5	60.0	60.1	59.7	58.0	52.7				
TAPE	400	53.7	55.0	57.1	57.3	58.9	59.0	59.4	59.0	54.0	56.0	51.0				
BAR 20.0 MG	500	51.0	54.4	57.3	57.2	58.6	58.0	59.0	58.0	57.0	55.0	49.2				
(80094. 4/M2)	630	53.2	55.0	57.4	59.1	60.5	61.0	61.2	60.0	59.3	55.0	40.0				
TAMB 40. DEG F	800	55.0	58.2	59.3	60.3	61.6	61.4	61.6	61.6	59.9	55.4	40.0				
(202. DEG K)	1000	53.0	55.0	58.7	59.6	60.2	61.6	61.0	62.2	59.7	53.7	40.2				
TMET 44. DEG F	1250	51.8	57.7	59.6	60.6	62.1	63.4	64.5	63.0	61.5	54.4	40.3				
(200. DEG K)	1500	55.1	59.5	61.4	62.2	64.3	65.5	65.6	64.6	62.2	53.9	44.0				
NACT 0.39 CM/R3	2000	61.7	64.6	66.7	69.3	71.0	73.0	72.0	70.6	68.7	60.5	47.5				
(.00039 KG/M3)	2500	57.4	62.0	64.7	67.0	69.4	70.2	70.1	69.6	64.4	50.2	45.0				
WFA 7000. RPM	3150	57.4	63.1	65.9	68.4	71.2	71.9	71.3	70.7	65.5	57.1	45.3				
( 032. RAC/SEC)	4000	57.5	63.4	67.7	70.2	72.4	74.1	73.7	72.0	66.0	61.2	49.0				
WFR 8032. RPM	5000	56.2	62.0	65.6	69.7	71.2	72.0	71.0	70.7	64.1	50.7	43.5				
( 041. RAC/SEC)	6300	54.9	61.1	63.6	67.3	70.3	71.0	71.1	70.3	63.7	50.0	42.0				
WFD 8023. RPM	8000	51.7	58.3	61.8	65.7	67.2	69.1	68.4	68.0	60.0	51.5	37.0				
( 024. RAC/SEC)	10000	49.2	56.3	60.5	63.0	65.0	67.1	67.2	66.2	58.0	49.0	33.0				
NO. OF BLADES IS	12500	45.5	52.3	56.8	60.6	63.1	63.0	65.0	62.0	55.5	43.0	25.0				
FAH TIP SPEED	16000	38.7	45.4	49.5	53.4	55.9	56.7	57.4	55.5	46.1	33.2	12.1				
604. FT/SEC	20000	33.5	39.3	44.3	48.3	50.2	51.0	52.2	49.7	39.2	23.2					
	25000	28.5	31.5	34.3	40.3	42.4	43.1	43.6	39.7	28.7	9.3					
	31500	14.1	20.1	25.3	29.1	31.2	31.5	30.2	25.3	11.4						
	40000		3.2	9.5	13.1	14.1	14.0	11.4	2.0							
	50000															
	63000															
	80000															
OVERALL CALCULATED	60.5	73.1	75.4	78.1	80.2	81.5	81.1	80.2	76.1	70.2	64.0					
PH00	61.6	67.1	69.4	71.0	73.9	75.3	75.0	74.2	70.2	63.3	72.0					

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FREQ.	59	60	70	80	90	100	110	120	130	140	150	0	0	0	0	0
	(1.02)	(1.19)	(1.36)	(1.53)	(1.71)	(1.88)	(2.06)	(2.24)	(2.42)	(2.60)	(2.78)	(0)	(0)	(0)	(0)	(0)
SIDELINE 200. FT. ( 60.96 M)	100	49.2	51.3	60.9	53.3	53.9	53.7	53.2	52.6	54.0	56.8	55.2				
VEHICLE R-55	125	55.9	55.5	61.0	54.9	59.5	49.6	59.7	59.6	59.2	58.4	55.5				
CONFIG 3A	160	52.5	54.6	60.0	55.9	56.7	56.8	57.3	57.7	58.6	58.5	55.0				
LOC SCHEMECTADY	200	51.4	53.3	68.1	55.3	57.4	58.2	58.7	59.6	59.2	59.8	55.2				
DATE 11/11/74	250	54.3	59.9	66.0	60.4	60.8	60.9	61.6	60.7	60.6	58.6	54.2				
RUN 1376	315	55.0	56.9	68.0	59.4	60.2	60.3	60.3	60.1	59.7	58.7	53.0				
TAPE	400	53.9	55.8	59.1	57.5	58.9	59.2	59.4	59.5	58.6	57.1	51.0				
BAR 29.8 HG	500	51.3	54.4	55.3	57.2	58.3	58.4	59.8	58.4	57.7	55.6	49.9				
(100496. N/M2)	630	53.0	55.6	58.9	59.1	60.7	61.3	61.5	60.8	59.3	56.4	48.6				
TAMB 48. DEG F	800	55.9	58.2	59.6	60.3	61.4	61.4	61.3	61.4	59.6	55.4	48.0				
(292. DEG K)	1020	52.7	55.8	58.4	59.9	60.2	61.3	62.4	62.2	59.9	54.2	46.9				
T-ET 44. DEG F	1250	53.3	57.7	59.3	59.8	62.6	63.9	64.8	64.0	61.0	54.2	46.0				
(282. DEG K)	1600	54.9	59.8	61.6	62.7	64.3	65.8	66.1	65.3	62.5	54.4	44.8				
MACT 6.39 CM/M3	2000	61.7	65.1	67.2	69.3	72.1	74.3	73.3	70.8	69.2	59.8	47.7				
(.00039 KG/M3)	2500	57.4	62.7	64.7	67.9	69.4	70.9	70.4	69.8	64.9	56.2	46.2				
MFA 7940. RPM	3150	56.9	63.1	65.4	68.6	71.2	71.9	71.5	70.4	66.0	57.1	45.6				
( 831. RAD/SEC)	4000	57.5	65.1	67.9	71.2	72.9	73.9	74.2	72.6	69.8	61.2	49.8				
MFK 8026. RPM	5000	58.2	62.8	65.6	69.7	71.7	72.6	72.4	70.4	64.3	55.9	44.8				
( 840. RAD/SEC)	6300	54.2	61.1	64.6	67.6	70.6	71.3	71.6	70.6	63.7	54.7	41.7				
MFD 8023. RPM	8000	51.2	58.1	62.3	65.5	67.7	68.8	68.9	68.1	60.9	51.2	38.1				
( 924. RAD/SEC)	11000	48.7	56.5	60.7	63.8	66.4	67.1	67.7	65.9	59.4	48.7	33.5				
NO. OF BLADES 15	12500	45.5	52.3	56.8	60.6	62.6	63.6	64.7	62.4	54.7	43.9	26.1				
FAN TIP SPEED	16000	38.7	45.1	50.2	53.4	56.2	57.2	57.4	55.5	46.1	32.7	11.6				
693. FT/SEC	20000	33.8	39.0	44.8	48.0	50.7	51.9	52.2	49.2	38.9	23.2					
	25000	26.5	32.3	37.0	40.5	42.7	43.1	43.6	40.0	28.2	9.6					
	31500	15.9	20.6	25.8	29.4	31.4	31.8	30.2	24.6	11.9						
	40000		3.9	11.0	12.6	14.3	14.8	11.4	2.5							
	50000															
	63000															
	80000															
OVERALL CALCULATED		68.5	73.1	77.1	78.3	80.4	81.6	81.5	80.1	76.3	70.4	64.1				
PNSB		61.5	67.0	69.3	62.3	64.3	65.2	65.4	64.0	60.4	63.3	73.3				

		50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	0.	0.	0.	0.	0.	0.	POL
	FREQ.	(1.02)	(1.19)	(1.36)	(1.53)	(1.71)	(1.88)	(2.06)	(2.24)	(2.42)	(2.60)	(2.78)	(0.	0.	0.	0.	0.	0.)	
	50																		
	63																		
	80																		
RACIAL 17. FT.	100	72.8	73.6	77.2	78.4	78.0	76.3	73.2	69.9	71.4	74.4	75.1							109.6
( 5. M)	125	67.3	67.3	70.7	70.1	69.0	68.3	68.7	71.4	71.4	72.7	73.3							104.0
VEHICLE R=55	160	71.3	66.6	66.7	66.6	67.8	68.3	69.9	70.9	73.2	74.7	73.8							104.2
CONFIG 3A	200	69.8	65.6	66.4	67.1	70.0	71.5	72.4	73.9	74.7	76.2	75.8							105.8
LDC SCHEMECTADY	250	70.5	68.3	69.4	70.9	71.3	72.0	73.4	73.2	74.7	75.4	74.1							106.2
DATE 11/11/74	315	75.3	69.6	73.4	71.4	72.9	72.8	73.4	73.9	74.7	75.4	73.8							107.1
RUN 13/7	400	77.1	68.8	69.9	70.6	71.8	72.3	73.4	74.4	75.2	74.4	71.8							107.2
TYPE	500	71.8	67.3	68.2	69.9	71.8	72.0	74.2	74.2	74.2	73.4	71.1							109.1
BAR 29.8 MG	630	75.9	70.1	71.2	72.7	74.3	75.8	76.2	76.4	77.4	76.5	72.3							109.5
(80494. N/M2)	800	73.6	71.8	72.9	74.4	75.3	76.6	77.9	78.7	78.9	76.9	72.8							109.9
TANG 49. DEG F	1000	69.9	70.6	73.2	74.2	75.6	76.8	78.9	79.7	80.2	76.2	70.8							110.4
(293. DEG K)	1250	72.4	76.1	77.2	78.5	80.9	82.3	85.4	85.9	87.4	82.7	76.1							110.5
TWET 44. DEG F	1600	72.6	76.9	78.2	79.3	81.9	82.9	84.9	85.9	86.4	81.5	74.3							110.3
(290. DEG K)	2000	74.1	77.7	79.2	81.0	82.9	84.4	85.4	84.4	84.2	79.0	73.1							110.3
MACT 6.15 CM/M3	2500	75.1	79.4	81.1	83.6	85.9	87.6	89.4	89.1	90.2	83.8	77.3							120.2
(.00613 KG/M3)	3150	73.9	78.2	80.1	83.3	85.9	86.9	89.1	89.3	90.9	84.3	77.5							120.2
NFA 5567. RPM	4000	72.3	77.9	80.3	83.6	87.1	87.6	89.3	90.0	89.1	82.7	76.5							120.3
( 583. RAD/SEC)	5000	73.8	76.3	78.5	82.5	85.6	86.8	88.2	88.4	88.3	81.9	74.7							119.1
NPK 5621. RPM	6300	70.1	74.6	77.2	80.9	83.7	85.0	86.0	86.0	87.6	81.1	74.3							110.3
( 589. RAD/SEC)	8000	67.7	73.1	75.2	79.4	81.9	83.9	86.5	86.0	85.9	79.1	73.4							110.8
NPD 8823. RPM	10000	67.2	71.4	74.2	78.7	81.7	83.0	85.3	86.2	87.1	80.3	73.3							110.7
( 924. RAD/SEC)	12500	66.4	69.3	72.8	78.7	80.9	81.9	84.9	86.6	85.0	78.7	72.5							110.2
NO. OF BLADES 15	16000	64.9	66.8	69.7	74.6	77.8	79.3	81.7	83.4	82.6	75.6	69.5							113.5
FAH TIP SPEED	20000	65.7	66.1	68.9	73.3	76.2	78.5	81.2	83.5	82.5	74.7	68.8							113.6
486. FT/SEC	25000	67.2	66.7	68.3	71.8	74.3	76.1	79.3	80.4	79.4	72.8	67.4							111.8
	31500	69.4	66.6	69.0	70.9	74.1	75.8	78.6	79.4	78.8	72.7	66.8							112.1
	40000	70.3	67.2	70.1	69.8	72.9	73.8	77.0	77.3	76.8	71.0	65.8							112.0
	50000	73.4	69.0	73.0	70.3	72.5	72.9	76.2	73.6	74.0	69.8	67.9							113.0
	63000	75.9	69.7	74.6	70.9	73.2	72.8	76.1	71.1	72.4	69.9	68.7							110.1
	80000	76.6	71.5	75.2	71.2	73.4	72.4	75.3	71.8	72.6	70.5	69.8							120.3
OVERALL MEASURED																			
OVERALL CALCULATED		87.2	88.0	90.1	92.6	95.2	98.3	98.3	98.7	99.0	93.4	88.2							120.2
PNOB		98.1	101.0	102.9	105.7	108.6	109.4	111.1	111.6	112.2	106.7	100.8							

FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)														
	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	0.	0.	0.	0.
	(1.02)	(1.19)	(1.36)	(1.53)	(1.71)	(1.88)	(2.06)	(2.24)	(2.42)	(2.60)	(2.78)	(0.	0.	0.	0.
50															
63															
SIDE LINE 200. FT.															
(60.96 M)	100	49.7	51.6	55.4	56.8	56.4	54.2	50.5	46.1	46.1	46.8	43.7			
VEHICLE R-55	125	43.9	45.0	48.8	48.5	47.3	46.2	45.9	47.6	46.0	44.9	41.7			
CONFIC 3A	160	48.1	44.2	44.8	44.9	46.0	46.1	47.1	46.9	47.6	46.7	42.0			
LCC SCHENECTADY	230	45.3	43.1	44.4	45.3	48.1	49.2	49.3	49.8	49.8	48.1	43.7			
DATE 11/11/74	250	47.1	45.7	47.3	49.0	49.3	49.7	50.4	49.0	48.8	47.1	41.7			
RCM 1377	315	51.8	46.9	48.2	49.4	50.5	50.3	50.3	49.6	48.7	47.0	41.2			
TAPE	400	53.4	48.1	47.7	48.6	49.7	49.8	50.2	50.0	49.1	45.8	39.8			
BAR 29.8 HG	500	48.1	44.5	45.8	47.8	49.6	49.4	50.8	49.7	47.9	44.6	37.8			
(30494. N/M2)	630	52.0	47.1	48.7	50.4	52.0	53.1	52.7	51.8	51.0	47.4	38.9			
TAMB 49. DEG F	800	46.6	48.7	50.4	52.1	52.9	53.7	54.3	53.9	52.4	47.7	38.8			
(283. DEG K)	1000	45.7	47.4	50.5	51.7	53.0	53.8	55.2	54.7	53.4	46.7	36.7			
TWEY 44. DEG F	1250	48.1	52.7	54.3	55.9	58.2	59.2	61.5	60.8	60.5	52.9	41.5			
(280. DEG K)	1600	48.2	53.3	55.2	56.5	59.0	59.6	60.8	60.6	59.2	51.4	39.3			
MACT 6.10 CM/M3	2000	49.5	53.9	56.0	58.1	59.8	60.9	61.1	58.8	56.7	48.5	37.5			
(.00010 KG/M3)	2500	50.2	55.5	57.8	60.4	62.7	64.0	64.9	63.3	62.4	52.9	41.2			
NPA 5587. RPM	3150	48.8	53.9	56.5	59.9	62.4	62.9	64.3	63.2	62.7	52.9	40.8			
( 583. RAD/SEC)	4000	46.6	53.2	56.2	59.7	63.2	63.2	64.0	63.3	60.3	50.5	38.3			
NPK 5621. RPM	5000	44.8	51.4	54.2	58.5	61.4	62.1	62.7	61.4	59.1	49.7	35.7			
( 589. RAD/SEC)	6300	43.2	48.9	52.2	56.1	58.8	59.6	61.6	60.1	57.2	47.0	33.2			
NPD 8823. RPM	8000	39.6	46.2	49.1	53.5	55.9	57.4	58.9	56.6	53.9	42.8	29.1			
( 924. RAD/SEC)	10000	37.3	42.9	46.6	51.3	54.2	54.9	55.9	54.9	52.7	41.0	24.5			
NO. OF BLADES 15	12500	33.9	38.4	42.6	49.2	51.2	51.5	53.0	52.4	47.2	34.9	17.2			
FAN TIP SPEED	16000	28.1	32.0	36.1	41.5	44.5	45.1	45.7	44.5	39.2	24.5	3.4			
488. FT/SEC	20000	23.2	26.2	30.4	35.4	38.0	39.2	39.8	38.5	31.7	14.0				
	25000	16.6	19.4	22.9	27.2	29.3	29.7	30.2	28.6	18.1					
	31500	8.0	8.6	13.5	16.3	19.1	18.9	18.1	12.7	2.8					
40000					0.5	3.0	1.4								
50000															
63000															
80000															
OVERALL CALCULATED		61.6	63.6	66.1	68.7	71.0	71.6	72.6	71.5	70.0	62.0	53.1			
PN3D		72.9	76.8	79.2	82.1	84.8	85.1	86.1	85.1	83.9	75.2	63.8			

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	PREC.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																
		58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
SIDELINE 230. FT.	50																	
( 60.96 M)	63																	
VEHICLE R-55	100	45.5	49.8	54.2	54.5	54.1	52.5	48.7	44.4	45.6	46.5	45.5						
CN/FC 48	125	43.1	47.0	52.4	47.2	47.1	46.4	46.7	46.8	47.2	45.9	44.3						
LCC SCHENECTADY	160	41.3	44.4	49.0	45.4	46.3	45.8	46.6	47.2	47.6	47.2	44.5						
DATE 11/7/74	230	41.0	43.3	50.9	46.1	47.6	44.5	48.7	49.8	49.7	44.8	46.0						
RM 11/2	250	43.9	46.9	52.5	49.0	49.8	49.7	50.9	50.0	48.8	47.6	44.0						
TAPE	315	44.8	47.9	54.2	50.7	50.5	51.1	50.5	50.6	49.7	48.0	43.8						
BAR 29.9 HG	400	45.2	49.3	52.9	49.1	50.2	50.8	50.9	50.8	49.3	48.8	41.8						
(101079. N/M2)	500	44.4	46.2	55.1	48.5	49.8	50.7	50.1	49.9	48.7	46.4	40.5						
TAMB 53. DEC F	630	45.8	48.1	59.0	51.7	52.5	53.1	53.5	52.8	52.0	48.9	41.9						
(285. JEC K)	800	47.9	50.5	51.4	52.9	52.9	54.0	55.1	55.6	53.3	49.4	41.8						
T-ET 47. JEC F	1000	44.2	50.6	52.5	51.4	52.5	54.1	54.9	55.2	54.4	48.7	40.5						
(1201. JEC K)	1250	51.6	53.0	53.8	56.9	58.7	60.0	62.0	62.3	61.9	54.7	45.1						
MACT 6.66 CM/M3	1600	50.9	52.3	54.2	57.2	59.5	61.1	61.3	61.3	60.4	52.6	42.3						
(130666 KG/M3)	2000	50.7	53.7	55.5	58.6	60.8	62.1	61.6	60.1	57.4	50.8	41.0						
NFA 5504. RPM	2500	52.2	55.0	59.3	61.4	63.2	65.2	66.1	64.6	64.4	55.4	46.8						
( 563. RAD/SEC)	3150	50.4	54.4	56.7	60.9	63.2	63.9	64.5	63.9	63.9	54.4	44.6						
NFK 5596. RPM	4000	48.3	53.2	56.5	61.0	63.5	63.4	63.7	64.1	61.2	52.2	41.3						
( 586. RAD/SEC)	5000	46.2	51.4	54.9	59.7	61.2	61.9	62.1	61.9	59.8	49.9	39.8						
NPE 8823. RPM	6300	44.0	48.9	52.4	56.9	58.3	59.8	60.6	60.6	58.0	48.0	38.5						
( 924. RAD/SEC)	8000	41.3	45.9	49.3	54.0	55.2	56.6	58.1	57.4	54.4	43.7	32.6						
NO. OF BLADES 15	10000	37.0	43.1	47.0	51.6	53.5	54.6	54.7	54.9	51.9	40.5	28.8						
FAN TIP SPEED	12500	34.6	39.7	43.6	48.4	50.6	52.2	52.0	53.4	47.4	35.2	23.5						
486. FT/SEC	16000	28.5	32.9	36.5	41.5	43.7	44.8	45.0	45.5	39.4	25.0	11.9						
	20000	23.6	26.9	30.6	35.9	38.0	38.2	38.7	37.5	32.2	14.9							
	25000	18.8	19.9	22.6	26.9	28.8	28.7	28.4	25.3	18.3								
	31500	6.5	9.8	12.4	16.3	18.0	17.9	16.8	11.9	2.2								
	40000					1.7	0.4											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		60.7	63.8	67.7	69.3	71.2	72.3	72.8	72.4	71.2	63.5	58.1						
PN28		73.5	76.9	80.4	82.9	85.0	85.8	86.5	85.8	85.6	76.6	67.6						

	FREQ.	MODEL SOUND PRESSURE LEVELS (59. LFG, F, 70 PERCENT REL. HUM, EAV)																	
		5a.	6a.	7a.	8a.	9a.	10a.	11a.	12a.	13a.	14a.	15a.	0.	0.	0.	0.	0.	PdL	
		(1.02)	(1.19)	(1.36)	(1.53)	(1.71)	(1.88)	(2.06)	(2.24)	(2.42)	(2.60)	(2.78)	(0.	(10.	(10.	(10.	(10.	(10.	
	50																		
	63																		
RADIAL 17. FT.	80																		
( 5. M)	100	72.0	74.0	72.9	71.1	73.0	72.7	73.9	73.6	74.2	77.7	80.3							
VEHICLE R-SS	125	71.7	74.0	74.6	71.6	72.3	73.0	73.2	74.6	75.9	77.9	79.6						108.5	
CCNFIG 40	160	69.7	71.3	71.4	71.6	72.0	72.0	73.4	75.1	76.9	79.4	80.3						108.4	
LCC SCHENECTADY	200	70.0	71.3	72.1	71.8	74.0	75.5	76.4	78.4	78.9	80.7	82.1						110.3	
DATE 11/7/74	250	71.7	73.3	75.4	75.3	75.3	76.5	77.9	78.1	78.2	80.2	80.8						110.8	
ROM 11/3	315	73.2	75.3	75.4	76.1	76.3	77.2	77.2	78.6	79.2	80.7	80.6						111.3	
TAPE	400	73.5	75.3	74.9	74.9	75.8	77.0	77.9	78.1	78.4	79.4	78.6						110.6	
BAR 29.9 HG	500	72.5	74.3	72.9	74.4	75.3	76.8	77.7	77.9	77.4	78.7	78.3						110.2	
(01079. 4/M2)	630	74.1	75.0	75.6	77.1	77.8	79.0	79.7	80.6	80.4	80.5	78.3						112.3	
TAMB 53. DEG F	800	77.8	79.5	79.6	79.1	80.3	80.8	82.7	83.1	81.9	81.4	82.6						114.9	
(285. DEG K)	1000	75.6	77.0	77.1	76.6	78.1	80.0	81.4	83.1	82.9	80.2	78.1						113.7	
YMET 47. DEG F	1250	75.6	76.6	76.9	78.9	80.8	83.0	85.4	86.6	86.7	82.5	79.3						116.8	
(281. DEG K)	1600	82.9	83.6	85.6	86.7	87.9	90.3	90.1	91.4	93.4	85.2	83.1						122.7	
HACT 6.06 3-7/3	2000	80.4	81.6	82.4	84.5	86.9	88.1	88.4	89.1	87.9	83.2	80.1						120.1	
(.00668 45/M3)	2500	78.4	80.8	83.4	85.4	88.7	89.6	90.1	90.3	89.7	84.3	81.8						121.6	
NFA 6370. RPM	3150	80.1	83.3	85.6	89.3	91.4	92.6	94.3	95.5	94.9	91.2	86.8						125.7	
( 667. RAD/SEC)	4000	77.8	81.0	84.3	87.3	89.4	90.8	92.0	92.7	92.4	86.4	82.5						123.3	
NFK 467. RPM	5000	77.7	81.3	84.4	85.2	89.8	91.7	92.7	92.9	91.8	86.2	81.9						123.7	
( 671. RAD/SEC)	6300	75.8	79.3	82.4	85.8	88.0	89.7	90.2	91.7	90.3	84.9	82.5						121.9	
NFS 823. RPM	8000	73.9	78.0	80.7	84.3	86.4	88.1	89.2	90.4	88.7	83.5	83.1						120.6	
( 924. RAD/SEC)	10000	73.4	77.0	80.4	83.9	85.4	86.9	89.0	89.9	88.8	83.6	83.5						120.3	
NO. OF BLADES 15	12500	73.4	78.2	79.0	82.4	84.8	86.3	88.3	89.3	87.5	82.7	80.5						120.0	
FAN TIP SPEED	16000	73.4	74.7	76.4	79.1	82.0	83.5	85.9	87.6	84.8	79.3	87.7						118.1	
556. FT/SEC	20000	74.8	74.8	76.3	78.5	81.4	82.7	85.1	87.2	84.7	78.9	87.5						118.6	
	25000	77.1	76.4	76.5	77.5	79.5	80.8	83.0	83.8	82.6	76.7	86.4						118.6	
	31500	78.1	76.5	77.0	77.8	80.0	80.7	82.6	82.9	82.3	75.4	88.6						118.0	
	40000	79.8	76.6	78.8	77.6	80.4	80.1	82.5	81.8	79.8	74.5	85.4						118.6	
	50000	83.1	78.8	82.5	80.1	82.5	81.4	83.7	81.1	77.0	73.3	88.4						122.2	
	63000	86.0	80.1	84.0	81.5	84.3	83.1	100.9	82.0	75.5	72.3	87.3						134.4	
	80000	86.8	80.7	84.5	81.6	84.9	83.8	85.2	83.1	75.8	73.7	84.9						130.2	
OVERALL MEASURED																			
OVERALL CALCULATED		93.7	93.2	95.5	97.4	99.4	100.7	104.4	102.7	102.0	97.4	99.0							137.9
PNDB		103.8	105.7	107.7	110.6	112.5	113.8	115.1	116.2	115.6	111.8	108.5							

FREQ.	50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 0. 0. 0. 0. 0. 0.														
	(1.62)	(1.69)	(1.76)	(1.83)	(1.91)	(1.98)	(2.06)	(2.14)	(2.22)	(2.30)	(2.38)	(0.)	(0.)	(0.)	(0.)
SIDELINE 230. FT.	63														
( 60.96 M)	100	49.0	51.0	51.1	49.5	51.4	50.7	51.2	49.9	48.8	50.0	48.9			
VEHICLE R=55	125	48.6	51.7	52.8	49.9	53.6	50.9	50.4	50.8	50.5	50.1	48.2			
CC:FIG 46	160	46.5	48.9	49.5	49.9	53.2	49.8	50.6	51.2	51.3	51.5	48.5			
LCC SCHEMECTAD <sub>v</sub>	200	46.7	48.8	50.1	50.0	52.1	53.2	53.5	54.3	53.2	52.6	50.0			
DATE 11/7/78	250	48.3	51.2	53.3	53.4	53.3	54.1	54.9	53.9	52.3	51.9	48.5			
RUM 11/3	315	49.7	52.6	53.2	54.1	54.2	54.8	54.0	54.3	53.2	52.2	48.0			
TAPE	400	49.9	52.5	52.6	52.9	53.6	54.5	54.7	53.7	52.3	50.8	49.7			
BAR 26.9 HG	500	48.8	51.4	50.5	52.2	53.1	54.1	54.3	53.4	51.2	49.9	45.2			
(01070. W/M2)	630	50.2	52.1	53.2	54.9	55.5	56.3	56.2	56.0	54.0	51.4	44.9			
TAMP 53 DEG F	800	53.0	56.4	57.1	56.8	57.9	57.9	58.1	58.3	55.4	52.2	48.8			
(205. DEG K)	1000	51.5	53.8	54.4	54.1	55.5	57.1	57.7	58.2	56.2	50.7	43.9			
TNET 47 DEG F	1250	51.6	53.2	54.1	56.3	58.1	59.9	61.5	61.5	59.7	52.7	44.6			
(201. DEG K)	1600	53.4	60.0	62.6	63.9	65.0	67.0	68.1	68.0	66.2	59.1	48.0			
MACT 6.66 CM/M3	2000	55.7	57.8	59.2	61.5	63.8	64.6	64.1	63.5	60.4	52.8	44.5			
(.30666 KG/M3)	2500	53.5	56.9	60.0	63.6	65.4	65.9	65.6	64.5	61.9	53.4	45.7			
MFA 6370. RPM	3150	54.9	59.1	61.9	65.9	67.9	68.6	69.5	69.4	66.7	59.9	49.1			
( 667. RAD/SEC)	4000	52.1	56.4	60.2	63.9	65.4	66.4	66.7	66.0	63.5	54.2	44.3			
MFK 407. RPM	5000	51.7	56.1	60.1	64.2	65.7	67.1	67.1	65.9	62.6	53.4	43.0			
( 671. RAD/SEC)	6300	48.9	53.6	57.4	61.1	63.1	64.3	63.8	63.8	60.0	50.7	41.5			
MFD 8623. RPM	8000	45.8	51.1	54.5	58.5	60.4	61.6	61.6	61.1	56.7	47.2	38.8			
( 924. RAD/SEC)	10000	43.5	48.5	52.7	56.5	57.9	58.8	59.7	58.6	54.4	44.2	34.8			
NO. OF BLADES 15	12500	43.8	45.3	49.1	52.9	55.1	55.9	56.5	55.1	49.7	38.9	33.2			
FAN TIP SPEED	16000	36.5	39.9	42.8	45.9	48.7	49.3	50.0	48.7	41.4	28.2	21.8			
550. FT/SEC	20000	32.3	34.8	37.8	40.1	43.2	43.4	43.7	42.2	34.8	18.2	7.2			
	25000	26.5	29.1	31.1	32.8	34.5	34.4	33.9	30.8	21.3	2.4				
	31500	15.7	18.5	21.4	23.2	25.0	23.8	22.0	18.1	5.5					
	40000		2.6	8.1	8.2	10.5	7.6	5.1							
	50000														
	63000														
	80000														
OVERALL CALCULATED		65.1	68.0	70.4	73.1	74.8	75.8	75.9	75.5	73.1	66.1	59.8			
PMBB		77.8	81.4	84.0	87.1	88.9	89.8	90.2	89.9	87.3	80.4	71.6			

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MODEL SOUND PRESSURE LEVELS (5% DEC. F. 70 PERCENT REL. HUM. DAV)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	0.	0.	0.	0.	0.	0.
		(1.02)	(1.19)	(1.36)	(1.53)	(1.71)	(1.88)	(2.06)	(2.24)	(2.42)	(2.60)	(2.78)	0.	0.	0.	0.	0.	0.
RADIAL 17. FT.	50																	
VEHICLE 1 S. M.	63																	
CONFIG R-55	AC																	
LCC SCHEMECTAD	100	70.0	72.3	73.1	72.3	73.9	73.5	73.9	74.4	76.0	81.7	74.6						108.0
DATE 11/7/74	125	76.2	79.5	78.4	76.6	78.3	78.2	77.9	78.9	79.9	81.7	74.6						112.5
RUN 11/4	160	72.2	73.8	73.4	74.1	75.3	75.2	77.2	78.6	80.7	83.2	74.9						111.1
TAPE 40	200	72.5	73.3	73.1	74.3	76.8	76.2	78.9	81.1	82.6	84.4	76.1						112.7
BAR 29.9 HG	250	74.7	76.5	78.1	78.1	78.9	79.5	80.7	81.4	83.4	83.9	75.6						113.0
(10179. N/M2)	315	76.0	77.5	77.9	79.1	79.5	80.2	80.7	81.6	82.9	83.9	74.4						114.1
YAPB 54. DEG F	430	76.0	77.5	77.4	77.6	79.3	79.5	80.2	81.6	83.2	82.9	73.4						113.0
(245. DEG K)	500	74.5	76.0	75.4	77.1	81.3	79.5	80.2	80.9	81.4	81.9	72.1						113.2
YACT 47. DEG F	630	76.1	77.3	77.9	79.6	80.6	81.3	82.2	83.6	83.7	83.2	72.1						114.9
(281. DEG K)	830	79.1	80.0	80.9	81.1	82.6	82.8	84.7	85.6	84.7	83.2	73.4						116.7
MACT 6.38 CM/M3	1030	77.6	79.0	80.1	79.4	81.6	82.8	84.1	85.6	85.7	82.4	72.4						110.2
(30639 KG/M3)	1250	75.4	78.6	79.1	80.6	83.3	84.6	87.4	88.1	88.2	84.5	75.1						118.4
NFA 7163. RPM	1600	82.7	82.1	82.9	84.5	87.9	90.1	90.6	92.1	91.7	86.0	74.9						122.3
(750. RAD/SEC)	2000	87.6	84.8	85.6	89.2	91.6	92.6	93.6	94.6	93.7	88.5	76.6						125.1
MFK 7195. RPM	2500	91.4	83.6	86.4	89.5	91.4	92.3	92.4	93.6	91.9	86.0	75.1						124.2
(753. RAD/SEC)	3150	81.6	85.4	88.1	91.0	93.2	95.1	95.6	96.3	95.2	88.8	77.4						120.6
MFD 8023. RPM	4000	81.8	85.6	89.0	92.8	94.6	96.3	96.8	96.7	95.9	89.7	76.8						127.9
(924. RAD/SEC)	5000	81.0	85.0	88.2	91.5	93.6	96.0	95.4	95.9	94.1	88.4	76.9						126.6
FAN TIP SPEED 625. FT/SEC	6300	79.5	83.1	86.4	89.9	91.7	93.2	93.7	95.0	92.1	87.1	76.1						125.2
NO. OF BLADES 15	8030	77.9	81.7	85.4	88.3	89.9	91.9	93.5	94.2	90.9	86.3	78.2						124.3
	10030	76.9	81.6	84.7	87.7	90.0	91.2	93.0	93.9	91.1	86.6	80.1						124.1
	12500	76.2	79.8	83.5	86.7	89.1	90.4	91.6	93.0	90.5	85.0	80.8						123.3
	16000	75.2	76.7	80.2	83.6	86.1	87.3	89.7	90.6	87.3	82.1	82.8						121.1
	20000	76.7	77.1	79.6	82.4	85.4	86.5	88.9	90.8	87.3	82.4	84.2						121.2
	25000	78.7	77.0	78.6	81.4	83.8	85.1	87.4	88.7	86.2	80.1	84.3						120.3
	31500	80.0	77.1	78.6	80.5	83.6	83.8	85.9	87.2	85.2	79.3	84.7						120.3
	40000	81.5	77.3	80.0	79.5	82.3	82.7	84.6	85.2	83.0	77.7	82.3						120.5
	50000	84.9	78.8	82.3	80.6	84.9	82.9	84.5	83.4	80.1	75.6	84.0						122.6
	63000	87.3	79.4	84.0	81.3	84.9	83.6	84.5	82.8	77.6	73.8	81.6						126.2
	80000	88.0	80.4	84.5	82.3	85.0	83.4	84.1	83.8	75.9	73.6	81.7						130.9
OVERALL MEASURED																		
OVERALL CALCULATED		95.4	95.4	98.0	100.5	102.7	104.1	104.9	105.7	104.6	99.5	94.3						137.8
PNSB		105.2	108.2	110.8	113.9	115.8	117.3	117.9	118.4	117.4	112.6	102.2						

ANGLES FROM TALLEY IN DEGREES (AND RADIANS)

FREQ.	ANGLE														
	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	0.	0.	0.	0.
	(1.02)	(1.10)	(1.16)	(1.33)	(1.57)	(1.74)	(1.90)	(2.06)	(2.24)	(2.42)	(2.60)	(0.	0.	0.	0.)
SIDELINE 200. FT.	50	53	56	59	62	65	68	71	74	77	80	83	86	89	92
( 60.06 M)	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170
VEHICLE R-55	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195
CONFIG 48	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230
LCC SCHELECTADY	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300
DATE 11/7/74	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320
RM: 11/4	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385
TAPE	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470
BAR 20.9 MG	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570
(101679. N/M2)	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700
TAMB 54. DEG F	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670
(285. DEG F)	1000	1005	1010	1015	1020	1025	1030	1035	1040	1045	1050	1055	1060	1065	1070
TACT 47. DEG F	1250	1255	1260	1265	1270	1275	1280	1285	1290	1295	1300	1305	1310	1315	1320
(201. DEG F)	1600	1605	1610	1615	1620	1625	1630	1635	1640	1645	1650	1655	1660	1665	1670
NACT 6.36 GN/M3	2000	2005	2010	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065	2070
(.00036 KG/M3)	2530	2535	2540	2545	2550	2555	2560	2565	2570	2575	2580	2585	2590	2595	2600
NFA 7100. RPM	3150	3155	3160	3165	3170	3175	3180	3185	3190	3195	3200	3205	3210	3215	3220
( 790. RAD/SEC)	4000	4005	4010	4015	4020	4025	4030	4035	4040	4045	4050	4055	4060	4065	4070
NFK 7195. RPM	5000	5005	5010	5015	5020	5025	5030	5035	5040	5045	5050	5055	5060	5065	5070
( 753. RAD/SEC)	6300	6305	6310	6315	6320	6325	6330	6335	6340	6345	6350	6355	6360	6365	6370
NFS 8223. RPM	8000	8005	8010	8015	8020	8025	8030	8035	8040	8045	8050	8055	8060	8065	8070
( 924. RAD/SEC)	10000	10005	10010	10015	10020	10025	10030	10035	10040	10045	10050	10055	10060	10065	10070
NO. OF BLADES 15	12530	12535	12540	12545	12550	12555	12560	12565	12570	12575	12580	12585	12590	12595	12600
FAN TIP SPEED	16000	16005	16010	16015	16020	16025	16030	16035	16040	16045	16050	16055	16060	16065	16070
625. FT/SEC	20000	20005	20010	20015	20020	20025	20030	20035	20040	20045	20050	20055	20060	20065	20070
25030	201	207	213	219	225	231	237	243	249	255	261	267	273	279	285
31530	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6
40000	1.5	3.3	5.1	6.9	8.7	10.5	12.3	14.1	15.9	17.7	19.5	21.3	23.1	24.9	26.7
50000															
63000															
80000															
GENERAL CALCULATED	67.1	70.4	73.1	76.2	78.1	79.2	78.8	78.2	75.1	68.2	53.8				
PRDB	79.8	83.9	86.8	90.2	92.3	93.8	92.8	91.8	88.8	80.8	64.8				

50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 0. 0. 0. 0. 0. 0. Pm  
 FRE. (1.52)(1.19)(.86)(.53)(.41)(.30)(.22)(.16)(.12)(.09)(.07)(.05)(.04)(.03)(.02)(.01)

|                    | 50    | 60    | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 0    | 0 | 0 | 0 | 0 | 0 | Pm    |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---|---|---|---|---|-------|
| RADIAL 17. FT.     | 50    |       |       |       |       |       |       |       |       |       |       |      |   |   |   |   |   |       |
| ( 5. M)            | 63    |       |       |       |       |       |       |       |       |       |       |      |   |   |   |   |   |       |
| VEHICLE            | 100   | 79.7  | 73.3  | 64.1  | 74.1  | 75.0  | 79.0  | 77.4  | 77.4  | 80.2  | 85.4  | 77.0 |   |   |   |   |   | 113.3 |
| CONFIG             | 125   | 79.2  | 78.3  | 85.4  | 79.3  | 81.8  | 82.5  | 82.4  | 83.1  | 84.0  | 86.4  | 78.4 |   |   |   |   |   | 116.7 |
| LCC SCHEDULE       | 160   | 75.2  | 77.3  | 84.6  | 77.6  | 78.0  | 79.2  | 80.7  | 81.9  | 84.2  | 86.7  | 77.9 |   |   |   |   |   | 115.4 |
| DATE 11/7/74       | 200   | 75.0  | 75.5  | 80.6  | 77.3  | 79.3  | 81.2  | 82.2  | 84.1  | 85.2  | 88.2  | 79.1 |   |   |   |   |   | 118.3 |
| NO. 11/5           | 250   | 77.7  | 79.5  | 83.1  | 81.1  | 82.3  | 83.6  | 85.2  | 86.1  | 87.7  | 88.9  | 79.6 |   |   |   |   |   | 118.1 |
| TAPE               | 315   | 76.0  | 80.6  | 87.6  | 82.1  | 82.3  | 83.7  | 83.9  | 85.1  | 86.7  | 87.9  | 78.1 |   |   |   |   |   | 118.4 |
| BAR 29.9 HG        | 400   | 78.8  | 85.0  | 80.6  | 80.9  | 81.5  | 82.5  | 85.4  | 84.9  | 85.2  | 84.7  | 77.1 |   |   |   |   |   | 118.9 |
| (10175. V/M2)      | 500   | 77.0  | 78.3  | 78.8  | 80.1  | 81.0  | 82.0  | 83.9  | 84.4  | 84.4  | 85.4  | 76.0 |   |   |   |   |   | 115.0 |
| TAMP 54. DEG F     | 630   | 74.6  | 73.5  | 80.4  | 82.4  | 83.1  | 84.0  | 85.4  | 86.4  | 86.7  | 84.0  | 76.4 |   |   |   |   |   | 117.7 |
| (285. DEG M)       | 800   | 81.1  | 81.8  | 82.0  | 83.6  | 84.1  | 85.3  | 86.7  | 87.9  | 86.9  | 85.9  | 77.9 |   |   |   |   |   | 118.8 |
| Y-LET 47. DEG F    | 1000  | 80.3  | 81.8  | 82.6  | 82.4  | 83.6  | 85.3  | 87.1  | 88.4  | 88.2  | 84.9  | 76.0 |   |   |   |   |   | 118.0 |
| (281. DEG K)       | 1250  | 82.4  | 81.8  | 81.4  | 83.4  | 85.3  | 87.3  | 88.9  | 90.6  | 89.7  | 86.2  | 78.9 |   |   |   |   |   | 120.5 |
| MACT 0.36 C/M3     | 1600  | 82.4  | 83.1  | 83.9  | 84.7  | 88.4  | 89.6  | 90.9  | 91.9  | 90.7  | 86.2  | 77.0 |   |   |   |   |   | 122.3 |
| (1-30635 C/M3)     | 2000  | 87.6  | 91.8  | 91.6  | 95.2  | 96.1  | 98.3  | 99.1  | 100.9 | 97.2  | 92.3  | 80.4 |   |   |   |   |   | 130.4 |
| MFA 7977. RPM      | 2500  | 85.6  | 86.9  | 89.9  | 92.8  | 94.2  | 95.1  | 95.9  | 96.8  | 93.2  | 88.8  | 80.4 |   |   |   |   |   | 127.2 |
| ( 835. RAD/SEC)    | 3150  | 85.1  | 87.6  | 90.3  | 93.5  | 95.4  | 96.3  | 96.6  | 97.6  | 94.4  | 90.3  | 80.4 |   |   |   |   |   | 128.2 |
| ( 816. RPM)        | 4000  | 85.5  | 89.3  | 92.3  | 96.3  | 97.9  | 98.8  | 99.8  | 99.7  | 97.0  | 94.2  | 83.0 |   |   |   |   |   | 130.0 |
| ( 830. RAD/SEC)    | 5000  | 84.2  | 87.8  | 91.2  | 94.7  | 96.1  | 97.2  | 97.9  | 98.2  | 94.3  | 89.9  | 82.0 |   |   |   |   |   | 126.0 |
| MFD 8823. RPM      | 6300  | 82.8  | 87.3  | 90.2  | 94.1  | 95.5  | 97.0  | 97.7  | 98.5  | 94.1  | 89.9  | 82.0 |   |   |   |   |   | 128.0 |
| ( 924. RAD/SEC)    | 8000  | 81.4  | 85.7  | 89.4  | 92.1  | 93.4  | 95.1  | 95.7  | 97.2  | 92.0  | 88.8  | 84.7 |   |   |   |   |   | 127.3 |
| NO. OF BLADES 15   | 10000 | 80.4  | 84.8  | 89.9  | 91.9  | 93.7  | 95.0  | 96.8  | 96.9  | 92.8  | 88.1  | 85.3 |   |   |   |   |   | 127.5 |
| FAN TIP SPEED      | 12500 | 79.7  | 84.3  | 87.3  | 90.9  | 92.9  | 94.1  | 96.4  | 96.8  | 92.5  | 88.5  | 86.3 |   |   |   |   |   | 127.2 |
| (896. FT/SEC)      | 16000 | 77.7  | 81.0  | 83.9  | 87.1  | 89.6  | 91.6  | 93.0  | 93.9  | 89.3  | 85.1  | 87.0 |   |   |   |   |   | 124.5 |
|                    | 20000 | 74.2  | 80.4  | 83.6  | 86.3  | 88.7  | 91.0  | 93.2  | 93.8  | 89.4  | 84.7  | 86.7 |   |   |   |   |   | 124.7 |
|                    | 25000 | 80.0  | 79.7  | 82.3  | 85.4  | 84.3  | 89.6  | 92.4  | 93.2  | 89.7  | 84.8  | 88.0 |   |   |   |   |   | 124.7 |
|                    | 31500 | 81.0  | 79.9  | 81.1  | 84.0  | 86.0  | 87.8  | 90.4  | 91.2  | 87.0  | 82.5  | 88.2 |   |   |   |   |   | 123.0 |
|                    | 40000 | 83.2  | 79.3  | 81.0  | 82.2  | 85.5  | 86.0  | 88.4  | 84.7  | 85.5  | 80.9  | 88.3 |   |   |   |   |   | 123.7 |
|                    | 50000 | 86.2  | 80.1  | 83.0  | 81.6  | 85.5  | 85.2  | 87.5  | 86.1  | 82.8  | 78.0  | 90.0 |   |   |   |   |   | 129.1 |
|                    | 63000 | 88.8  | 80.6  | 84.3  | 82.0  | 85.9  | 84.4  | 87.0  | 83.5  | 79.8  | 75.6  | 88.9 |   |   |   |   |   | 127.0 |
|                    | 80000 | 84.0  | 81.4  | 84.7  | 82.1  | 86.0  | 84.2  | 86.8  | 83.8  | 78.4  | 74.0  | 87.3 |   |   |   |   |   | 131.7 |
| OVERALL MEASURED   |       |       |       |       |       |       |       |       |       |       |       |      |   |   |   |   |   |       |
| OVERALL CALCULATED | 97.7  | 98.9  | 101.8 | 104.1 | 105.7 | 107.0 | 108.1 | 108.9 | 105.7 | 102.5 | 99.3  |      |   |   |   |   |   | 108.5 |
| PMDB               | 108.6 | 111.7 | 114.0 | 117.3 | 118.0 | 119.9 | 120.9 | 121.3 | 119.2 | 110.0 | 106.6 |      |   |   |   |   |   |       |

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT DEL. NUM. DATA

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|   | 50.  | 60.  | 70.  | 80.  | 90.  | 100. | 110. | 120. | 130. | 140. | 150. | 0. | 0. | 0. | 0. | 0. | 0. |
|---|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|
| FREQ. (1.52)(1.19)(1.30)(1.53)(1.71)(1.90)(2.00)(2.24)(2.42)(2.60)(2.70)(0. 110. 110. 110. 110. 110. 110. 110.) |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| SIDELINE 200. FT.   | 50   |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| ( 60.06 M)  | 63   |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| VEHICLE 100   | 47.7 | 51.3 | 62.4 | 52.5 | 54.1 | 54.0 | 54.7 | 53.6 | 54.0 | 57.0 | 46.5 |    |    |    |    |    |    |
| COEFFIC 125   | 54.1 | 56.0 | 63.5 | 57.7 | 60.1 | 60.4 | 59.6 | 59.3 | 59.5 | 50.6 | 46.0 |    |    |    |    |    |    |
| LDC SCHENECTADY 160   | 52.0 | 54.4 | 62.7 | 55.9 | 57.0 | 57.0 | 57.9 | 58.6 | 58.6 | 50.7 | 46.0 |    |    |    |    |    |    |
| DATE 11/7/74 250  | 51.7 | 53.3 | 61.6 | 54.3 | 57.4 | 59.0 | 59.2 | 60.0 | 59.5 | 60.1 | 47.0 |    |    |    |    |    |    |
| RUN 11/5 315  | 54.3 | 56.9 | 61.0 | 59.2 | 60.3 | 60.0 | 62.1 | 61.0 | 61.8 | 60.6 | 47.3 |    |    |    |    |    |    |
| TAPE 400  | 55.5 | 58.1 | 65.5 | 60.1 | 60.0 | 61.3 | 60.0 | 60.0 | 60.7 | 59.5 | 45.8 |    |    |    |    |    |    |
| BAR 20.9 HG 500   | 55.2 | 57.3 | 58.4 | 58.9 | 59.4 | 60.0 | 62.2 | 60.5 | 59.1 | 50.1 | 44.3 |    |    |    |    |    |    |
| (01079. N/M2) 630   | 53.3 | 55.4 | 56.3 | 56.8 | 58.0 | 59.4 | 60.0 | 59.9 | 58.2 | 50.6 | 43.5 |    |    |    |    |    |    |
| TANG 54. DEG F 830  | 54.7 | 56.6 | 57.9 | 59.1 | 60.7 | 61.3 | 61.9 | 61.7 | 60.3 | 50.9 | 42.0 |    |    |    |    |    |    |
| (205. DEG F) 1030   | 57.1 | 58.7 | 60.3 | 61.3 | 61.6 | 62.4 | 63.1 | 63.1 | 60.4 | 50.7 | 44.1 |    |    |    |    |    |    |
| T-CT 47. DEG F 1230   | 55.2 | 58.5 | 59.0 | 59.9 | 61.0 | 62.3 | 63.4 | 63.4 | 61.4 | 50.4 | 42.5 |    |    |    |    |    |    |
| (201. DEG F) 1430   | 56.1 | 58.4 | 58.6 | 60.9 | 62.6 | 64.2 | 65.0 | 65.5 | 62.7 | 50.4 | 44.3 |    |    |    |    |    |    |
| MACT 6.34 CM/M3 1630  | 57.0 | 59.5 | 60.0 | 63.9 | 65.5 | 66.3 | 66.0 | 66.5 | 63.5 | 50.1 | 42.0 |    |    |    |    |    |    |
| (1.0035 KG/M3) 2030   | 62.0 | 64.1 | 68.4 | 72.3 | 73.1 | 74.0 | 74.0 | 75.3 | 69.7 | 61.0 | 44.0 |    |    |    |    |    |    |
| MFA 7077. RPM 2530  | 60.7 | 62.9 | 65.5 | 69.6 | 70.0 | 71.4 | 71.4 | 71.0 | 65.4 | 57.9 | 44.2 |    |    |    |    |    |    |
| ( 835. PAD/SEC) 3170  | 59.9 | 63.4 | 66.7 | 70.1 | 71.9 | 72.4 | 71.0 | 71.4 | 66.2 | 50.9 | 43.4 |    |    |    |    |    |    |
| MFK 801A. RPM 4030  | 59.0 | 64.6 | 68.2 | 72.4 | 74.0 | 74.4 | 74.5 | 73.0 | 69.0 | 62.0 | 44.0 |    |    |    |    |    |    |
| ( 839. PAD/SEC) 5030  | 54.2 | 62.0 | 66.9 | 70.7 | 71.0 | 72.0 | 72.4 | 71.1 | 65.1 | 57.2 | 43.1 |    |    |    |    |    |    |
| MFD 8023. RPM 6030  | 55.0 | 61.6 | 65.1 | 69.3 | 70.6 | 71.0 | 71.3 | 70.5 | 63.7 | 55.7 | 41.0 |    |    |    |    |    |    |
| ( 824. RAD/SEC) 8030  | 53.3 | 58.9 | 63.3 | 66.3 | 67.4 | 68.0 | 68.1 | 67.9 | 60.9 | 52.5 | 40.4 |    |    |    |    |    |    |
| NG. OF BLADES 15 10000  | 50.5 | 56.3 | 61.3 | 64.6 | 66.2 | 66.0 | 67.4 | 65.7 | 58.5 | 48.7 | 38.0 |    |    |    |    |    |    |
| FAN TIP SPEED 10000   | 47.1 | 53.1 | 57.4 | 61.4 | 63.2 | 63.7 | 64.5 | 62.7 | 54.8 | 44.7 | 31.0 |    |    |    |    |    |    |
| 600. FT/SEC 20000   | 40.8 | 46.2 | 50.3 | 54.0 | 56.2 | 57.3 | 57.0 | 55.0 | 46.0 | 34.0 | 21.4 |    |    |    |    |    |    |
| 25000   | 29.4 | 32.4 | 36.0 | 40.7 | 43.3 | 43.2 | 43.2 | 39.3 | 28.4 | 10.2 |      |    |    |    |    |    |    |
| 31500   | 18.6 | 21.0 | 25.5 | 29.4 | 31.0 | 31.0 | 29.0 | 24.5 | 11.1 |      |      |    |    |    |    |    |    |
| 40000   | 3.2  | 5.3  | 10.3 | 12.9 | 15.0 | 13.9 | 11.0 | 2.0  |      |      |      |    |    |    |    |    |    |
| 50000   |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| 63600   |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| 80000   |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| OVERALL CALCULATED  | 70.3 | 74.0 | 77.6 | 79.8 | 81.1 | 81.9 | 81.9 | 81.4 | 76.0 | 71.5 | 57.7 |    |    |    |    |    |    |
| PM30  | 83.2 | 87.4 | 90.7 | 93.6 | 95.0 | 95.6 | 95.0 | 94.0 | 90.7 | 84.4 | 60.0 |    |    |    |    |    |    |

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MODEL SOUND PRESSURE LEVELS 150. DEC. F. 70 PERCENT DEL. NUM. TAVI

ANGLES FROM INLET IN DEGREES (AND RADIAN)

| FREQ.              | ANGLES FROM INLET IN DEGREES (AND RADIAN) |        |        |        |        |        |        |        |        |        |        |      |      |      |      |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|
|                    | 50.                                       | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.   | 0.   | 0.   |
|                    | (1.02)                                    | (1.19) | (1.36) | (1.53) | (1.71) | (1.90) | (2.09) | (2.24) | (2.42) | (2.60) | (2.78) | 0.   | 110. | 110. | 110. |
| SIDE LINE 200. FT. | 63  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |
| ( 40.96 M)         | 80  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |
| VEHICLE M-55       | 120                                       | 47.7   | 57.5   | 52.6   | 53.3   | 53.9   | 54.2   | 54.0   | 53.4   | 55.1   | 57.5   | 57.2 |      |      |      |
| CONFIG 40          | 125                                       | 55.9   | 54.0   | 55.5   | 57.9   | 62.3   | 60.4   | 59.4   | 56.0   | 59.5   | 50.4   | 57.2 |      |      |      |
| LCC SCHEMECTADY    | 140                                       | 52.3   | 60.4   | 54.7   | 56.4   | 56.7   | 57.0   | 57.6   | 58.2   | 58.8   | 59.2   | 56.7 |      |      |      |
| DATE 11/7/74       | 250                                       | 51.7   | 60.3   | 54.1   | 55.5   | 57.4   | 58.7   | 59.0   | 60.0   | 59.2   | 60.1   | 57.5 |      |      |      |
| RUN 11/6           | 250                                       | 54.1   | 61.4   | 59.0   | 59.4   | 60.3   | 61.4   | 62.9   | 62.9   | 61.8   | 60.9   | 58.0 |      |      |      |
| TAPE               | 315                                       | 55.5   | 62.0   | 59.0   | 59.7   | 60.7   | 60.0   | 60.0   | 60.0   | 60.5   | 59.5   | 55.5 |      |      |      |
| BAR 20.0 Hz        | 430                                       | 54.9   | 66.5   | 57.6   | 54.3   | 53.4   | 60.0   | 60.7   | 60.2   | 59.1   | 57.0   | 54.0 |      |      |      |
| (101070. 1/4R2)    | 500                                       | 53.3   | 58.4   | 55.8   | 57.7   | 58.0   | 59.0   | 63.1   | 59.0   | 54.4   | 56.0   | 52.2 |      |      |      |
| TAPE 54. DEC F     | 630                                       | 54.5   | 57.9   | 57.9   | 59.9   | 63.7   | 61.5   | 61.9   | 62.0   | 60.3   | 50.9   | 51.4 |      |      |      |
| (265. DEC K)       | 1030                                      | 57.4   | 63.2   | 60.3   | 61.5   | 61.0   | 62.2   | 63.1   | 62.0   | 66.0   | 50.4   | 50.0 |      |      |      |
| TAPE 47. DEC F     | 1250                                      | 56.3   | 59.2   | 58.3   | 61.1   | 62.9   | 64.9   | 65.5   | 66.0   | 63.5   | 50.4   | 48.8 |      |      |      |
| (201. DEC K)       | 1920                                      | 57.4   | 59.3   | 60.0   | 63.7   | 65.3   | 64.5   | 67.3   | 64.5   | 63.5   | 55.4   | 47.5 |      |      |      |
| MACT 6.36 CM/MS    | 2000                                      | 62.7   | 67.3   | 67.9   | 71.5   | 72.0   | 74.0   | 75.1   | 74.3   | 69.4   | 61.3   | 52.2 |      |      |      |
| (1.00036 CM/MS)    | 2500                                      | 60.0   | 62.4   | 65.5   | 69.6   | 71.2   | 71.7   | 71.4   | 71.3   | 66.2   | 57.7   | 48.9 |      |      |      |
| MFA 7073. RPM      | 3150                                      | 53.6   | 63.6   | 67.2   | 70.1   | 72.7   | 72.1   | 72.0   | 71.6   | 66.0   | 50.6   | 48.0 |      |      |      |
| ( 635. RAD/SEC)    | 4050                                      | 60.1   | 64.4   | 68.4   | 72.7   | 74.0   | 74.0   | 74.7   | 73.5   | 69.3   | 62.0   | 52.0 |      |      |      |
| MFR 612. RPM       | 5000                                      | 50.2   | 62.8   | 66.9   | 70.4   | 72.2   | 72.0   | 72.4   | 71.1   | 65.3   | 57.5   | 46.5 |      |      |      |
| ( 630. RAD/SEC)    | 6300                                      | 50.2   | 61.9   | 65.4   | 69.3   | 73.0   | 71.0   | 71.3   | 70.5   | 64.2   | 55.2   | 44.2 |      |      |      |
| MFD 6023. RPM      | 8050                                      | 52.8   | 58.9   | 63.3   | 64.5   | 67.4   | 69.1   | 68.6   | 68.4   | 61.2   | 52.3   | 39.8 |      |      |      |
| ( 924. RAD/SEC)    | 10000                                     | 50.5   | 57.1   | 61.0   | 64.6   | 66.2   | 67.1   | 67.2   | 65.7   | 59.0   | 49.9   | 39.0 |      |      |      |
| NO. OF BLADES 15   | 12500                                     | 47.1   | 53.4   | 50.1   | 61.2   | 63.4   | 63.7   | 64.0   | 62.7   | 55.3   | 44.7   | 29.0 |      |      |      |
| FAI TIP SPEED      | 10000                                     | 39.0   | 45.9   | 50.3   | 54.0   | 50.0   | 57.3   | 57.0   | 55.0   | 40.2   | 34.3   | 14.1 |      |      |      |
| 600. FT/SEC        | 20000                                     | 34.4   | 40.4   | 45.2   | 48.6   | 50.0   | 51.7   | 52.1   | 49.0   | 39.3   | 24.5   |      |      |      |      |
|                    | 25000                                     | 26.9   | 32.2   | 36.7   | 40.2   | 43.1   | 43.0   | 43.2   | 39.6   | 20.0   | 10.7   |      |      |      |      |
|                    | 31500                                     | 16.4   | 21.1   | 25.5   | 29.4   | 31.6   | 31.2   | 29.7   | 24.5   | 11.4   |        |      |      |      |      |
|                    | 40000                                     |        | 4.0    | 10.0   | 12.9   | 14.4   | 13.0   | 10.5   | 2.0    |        |        |      |      |      |      |
|                    | 50000                                     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |
|                    | 63000                                     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |
|                    | 80000                                     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |
| OVERALL CALCULATED |   | 70.1   | 75.2   | 70.3   | 70.7   | 81.2   | 82.0   | 82.1   | 81.3   | 70.9   | 71.4   | 60.5 |      |      |      |
| PM20               |   | 63.1   | 67.0   | 60.2   | 63.7   | 69.1   | 69.0   | 69.0   | 69.1   | 60.0   | 64.3   | 75.0 |      |      |      |



MODEL SOUND PRESSURE LEVELS (59. DEC. F. 70 PERCENT REL. HUM. EAV)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.                          | ANGLES FROM INLET IN DEGREES (AND RADIANS) |               |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           |           |
|--------------------------------|--|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                | 58.<br>(1.02)                              | 63.<br>(1.10) | 70.<br>(1.23) | 78.<br>(1.36) | 88.<br>(1.53) | 99.<br>(1.71) | 108.<br>(1.88) | 118.<br>(2.06) | 128.<br>(2.24) | 139.<br>(2.42) | 149.<br>(2.63) | 159.<br>(2.78) | 0.<br>(0) | 0.<br>(0) | 0.<br>(0) | 0.<br>(0) | 0.<br>(0) | 0.<br>(0) |
| 50                             |  |               |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           |           |
| 63                             |  |               |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           |           |
| SIDELINE 200. FT.<br>(63.96 M) | 130  | 48.2          | 50.1          | 53.9          | 54.5          | 56.6          | 53.0           | 48.7           | 43.9           | 45.8           | 46.5           | 38.7           |           |           |           |           |           |           |
| VEHICLE R=55                   | 125  | 44.6          | 49.3          | 48.1          | 47.4          | 55.1          | 47.9           | 46.9           | 46.3           | 47.0           | 45.6           | 38.3           |           |           |           |           |           |           |
| CONFIG 48                      | 160  | 42.6          | 44.2          | 44.5          | 47.1          | 57.7          | 47.8           | 46.8           | 47.2           | 47.6           | 47.2           | 38.5           |           |           |           |           |           |           |
| LCC SCHENECTADY                | 200  | 42.5          | 43.8          | 44.4          | 48.0          | 58.4          | 50.2           | 49.5           | 50.1           | 49.7           | 49.1           | 39.5           |           |           |           |           |           |           |
| DATE 11/7/74                   | 250  | 43.4          | 45.7          | 47.8          | 51.2          | 59.5          | 51.4           | 50.9           | 50.0           | 49.1           | 47.1           | 39.5           |           |           |           |           |           |           |
| RUN 11/7                       | 315  | 45.3          | 48.2          | 49.5          | 50.9          | 60.2          | 51.5           | 51.0           | 50.6           | 49.7           | 48.0           | 39.5           |           |           |           |           |           |           |
| TAPE                           | 400  | 45.2          | 48.1          | 48.4          | 50.3          | 57.6          | 52.0           | 52.2           | 51.0           | 49.6           | 46.8           | 40.5           |           |           |           |           |           |           |
| BAR 29.9 HG<br>(131079. N/M2)  | 500  | 43.9          | 45.7          | 46.6          | 52.2          | 56.1          | 52.1           | 50.6           | 49.7           | 48.7           | 46.1           | 39.5           |           |           |           |           |           |           |
| TAMP 54. DEC F                 | 600  | 46.0          | 47.9          | 49.0          | 52.4          | 55.0          | 53.6           | 53.5           | 53.0           | 52.0           | 49.2           | 41.4           |           |           |           |           |           |           |
| (285. DEC K)                   | 1000                                       | 47.6          | 49.5          | 51.1          | 55.3          | 56.6          | 56.7           | 55.1           | 55.1           | 53.1           | 49.4           | 42.6           |           |           |           |           |           |           |
| T-ET 46. DEC F                 | 1250                                       | 51.4          | 52.5          | 53.3          | 56.6          | 59.1          | 60.2           | 61.3           | 62.3           | 61.4           | 54.7           | 44.1           |           |           |           |           |           |           |
| (282. DEC K)                   | 1600                                       | 50.4          | 53.1          | 54.2          | 57.7          | 59.3          | 60.5           | 61.8           | 61.3           | 60.2           | 53.1           | 43.3           |           |           |           |           |           |           |
| HACT 6.96 GM/M3                | 2000                                       | 51.4          | 53.4          | 55.5          | 59.0          | 60.8          | 62.1           | 61.4           | 59.8           | 57.4           | 51.3           | 44.8           |           |           |           |           |           |           |
| (-00696 KG/M3)                 | 2500                                       | 52.2          | 55.0          | 57.8          | 61.9          | 63.2          | 64.9           | 65.6           | 64.3           | 64.4           | 55.2           | 43.5           |           |           |           |           |           |           |
| NFA 5567. RPM                  | 3150                                       | 50.4          | 54.2          | 57.0          | 60.9          | 63.2          | 63.9           | 64.5           | 63.9           | 63.7           | 54.6           | 43.6           |           |           |           |           |           |           |
| ( 583. PAC/SEC)                | 4000                                       | 48.6          | 52.9          | 56.7          | 60.7          | 63.2          | 63.6           | 63.7           | 63.5           | 61.2           | 52.0           | 44.6           |           |           |           |           |           |           |
| NFK 5594. RPM                  | 5000                                       | 47.0          | 51.1          | 54.9          | 59.2          | 61.2          | 61.8           | 62.1           | 62.7           | 59.5           | 50.4           | 44.5           |           |           |           |           |           |           |
| ( 586. PAC/SEC)                | 6300                                       | 44.7          | 49.2          | 52.4          | 56.6          | 58.3          | 59.3           | 61.1           | 60.6           | 57.7           | 48.0           | 43.3           |           |           |           |           |           |           |
| NFD 8823. RPM                  | 8000                                       | 41.0          | 45.6          | 49.5          | 54.2          | 55.6          | 57.1           | 57.9           | 57.1           | 54.4           | 44.2           | 41.1           |           |           |           |           |           |           |
| ( 924. PAC/SEC)                | 10000                                      | 38.0          | 43.1          | 47.0          | 51.8          | 53.7          | 54.8           | 54.9           | 54.4           | 52.1           | 41.2           | 37.0           |           |           |           |           |           |           |
| NO. OF BLADES 15               | 12500                                      | 35.1          | 39.9          | 43.3          | 48.6          | 50.9          | 52.1           | 52.0           | 53.4           | 47.4           | 36.4           | 31.7           |           |           |           |           |           |           |
| FAN TIP SPEED                  | 16000                                      | 29.3          | 32.7          | 36.5          | 42.4          | 44.9          | 45.5           | 45.2           | 45.2           | 40.1           | 27.4           | 21.8           |           |           |           |           |           |           |
| 486. FT/SEC                    | 20000                                      | 24.6          | 27.1          | 30.8          | 37.3          | 40.4          | 39.4           | 39.2           | 37.9           | 31.6           | 17.9           | 8.9            |           |           |           |           |           |           |
|                                | 25000                                      | 18.3          | 20.1          | 23.3          | 30.8          | 32.9          | 30.8           | 28.9           | 25.2           | 18.2           | 3.8            |                |           |           |           |           |           |           |
|                                | 31500                                      | 7.9           | 9.0           | 12.9          | 21.4          | 23.7          | 21.0           | 17.0           | 11.6           | 2.2            |                |                |           |           |           |           |           |           |
|                                | 40000                                      |               |               |               | 7.9           | 10.4          | 5.8            |                |                |                |                |                |           |           |           |           |           |           |
|                                | 50000                                      |               |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           |           |
|                                | 63000                                      |               |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           |           |
|                                | 80000                                      |               |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           |           |
| OVERALL CALCULATED             |  | 60.9          | 63.7          | 66.0          | 69.6          | 72.5          | 72.3           | 72.7           | 72.3           | 71.0           | 63.6           | 55.3           |           |           |           |           |           |           |
| PNDP                           |  | 73.7          | 76.8          | 79.4          | 83.1          | 85.9          | 85.9           | 86.3           | 85.7           | 84.8           | 76.8           | 68.8           |           |           |           |           |           |           |



|                    |       | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.  | 0. | 0. | 0. | 0. | 0. | PWL   |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|----|----|----|----|----|-------|
|                    | PREC. | (1.52) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0. | 0. | 0. | 0. | 0. | 0. |       |
|                    |       | 59     |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |    |       |
|                    |       | 63     |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |    |       |
| RADIAL 17. FT.     |       | 60     |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |    |       |
| ( S. M.)           | 100   | 76.3   | 78.1   | 80.9   | 81.9   | 81.3   | 79.3   | 74.7   | 70.9   | 71.9   | 75.9   | 76.3   |     |    |    |    |    |    | 112.0 |
| VEHICLE            | 125   | 67.3   | 67.6   | 70.9   | 69.1   | 72.3   | 69.8   | 69.9   | 71.2   | 72.7   | 74.9   | 75.1   |     |    |    |    |    |    | 109.2 |
| CO-FIG             | 160   | 65.8   | 66.8   | 67.4   | 67.9   | 68.1   | 69.8   | 70.9   | 71.9   | 74.4   | 75.8   | 76.6   |     |    |    |    |    |    | 105.2 |
| LCC SCHEMECTADY    | 200   | 65.3   | 66.8   | 67.4   | 68.6   | 70.9   | 72.3   | 73.2   | 75.4   | 76.4   | 78.7   | 78.8   |     |    |    |    |    |    | 107.4 |
| DATE 11/16/74      | 250   | 67.8   | 68.6   | 71.2   | 71.6   | 72.3   | 72.8   | 73.9   | 74.4   | 75.4   | 76.9   | 76.6   |     |    |    |    |    |    | 107.2 |
| RUN 20/1           | 315   | 68.8   | 70.6   | 71.4   | 72.1   | 72.8   | 73.5   | 73.9   | 74.7   | 75.7   | 77.2   | 76.3   |     |    |    |    |    |    | 107.6 |
| TAPE               | 400   | 67.8   | 69.6   | 70.9   | 71.7   | 73.0   | 73.3   | 73.9   | 75.4   | 76.2   | 75.9   | 74.6   |     |    |    |    |    |    | 107.3 |
| BAR 29.7 HG        | 500   | 69.8   | 69.6   | 69.2   | 70.9   | 72.6   | 73.3   | 74.2   | 74.9   | 74.7   | 75.4   | 73.8   |     |    |    |    |    |    | 106.7 |
| (30420. W/M2)      | 630   | 68.1   | 70.4   | 71.7   | 73.7   | 74.8   | 76.1   | 76.9   | 77.7   | 78.4   | 78.0   | 74.6   |     |    |    |    |    |    | 109.4 |
| TAMP 50. DEG F     | 800   | 70.6   | 72.1   | 73.2   | 74.4   | 75.3   | 76.6   | 77.9   | 76.2   | 79.2   | 78.7   | 74.8   |     |    |    |    |    |    | 110.3 |
| (288. DEG F)       | 1000  | 68.9   | 71.1   | 72.9   | 73.4   | 75.6   | 76.8   | 78.2   | 76.7   | 80.4   | 77.9   | 74.1   |     |    |    |    |    |    | 110.4 |
| T-ET 52. DEG F     | 1250  | 71.9   | 76.1   | 77.4   | 79.2   | 81.9   | 84.1   | 85.7   | 86.7   | 87.4   | 84.2   | 78.6   |     |    |    |    |    |    | 117.2 |
| (284. DEG F)       | 1600  | 72.4   | 78.6   | 78.9   | 81.3   | 83.9   | 85.4   | 85.8   | 86.7   | 86.9   | 83.2   | 77.3   |     |    |    |    |    |    | 117.6 |
| MACT 6.30 CM/M3    | 2000  | 73.4   | 77.1   | 79.2   | 82.5   | 84.4   | 85.6   | 86.1   | 86.1   | 86.2   | 82.0   | 77.1   |     |    |    |    |    |    | 117.7 |
| (.30030 CM/P3)     | 2500  | 75.4   | 78.6   | 80.6   | 83.8   | 86.7   | 88.6   | 90.6   | 89.9   | 91.2   | 85.0   | 80.1   |     |    |    |    |    |    | 121.1 |
| NFA 5622. RPM      | 3150  | 75.6   | 79.1   | 81.6   | 84.3   | 87.7   | 89.6   | 91.1   | 90.8   | 91.9   | 85.0   | 80.3   |     |    |    |    |    |    | 121.9 |
| ( 569. RAD/SEC)    | 4000  | 74.3   | 78.1   | 83.0   | 85.3   | 89.1   | 90.5   | 90.2   | 91.5   | 90.8   | 85.4   | 80.0   |     |    |    |    |    |    | 122.2 |
| NFK 5627. RPM      | 5000  | 71.5   | 76.0   | 79.7   | 83.3   | 86.1   | 87.0   | 88.7   | 89.4   | 89.3   | 83.6   | 78.1   |     |    |    |    |    |    | 119.9 |
| ( 589. RAD/SEC)    | 6300  | 70.5   | 74.6   | 78.4   | 82.4   | 84.7   | 86.7   | 87.6   | 89.0   | 89.0   | 83.1   | 77.2   |     |    |    |    |    |    | 119.3 |
| NFC 8023. RPM      | 8000  | 68.8   | 74.0   | 76.9   | 81.1   | 83.3   | 84.8   | 86.9   | 87.9   | 87.9   | 82.2   | 77.0   |     |    |    |    |    |    | 118.2 |
| ( 924. RAD/SEC)    | 10000 | 67.6   | 71.0   | 75.4   | 79.6   | 81.8   | 83.9   | 85.6   | 86.6   | 86.2   | 81.7   | 76.9   |     |    |    |    |    |    | 117.5 |
| NO. OF BLADES 15   | 12000 | 67.8   | 70.2   | 73.7   | 78.3   | 81.0   | 83.0   | 84.7   | 86.7   | 88.1   | 79.8   | 76.1   |     |    |    |    |    |    | 117.1 |
| FAN TIP SPEED      | 16000 | 64.0   | 67.1   | 70.5   | 74.9   | 77.6   | 80.4   | 81.8   | 83.7   | 87.4   | 76.9   | 74.6   |     |    |    |    |    |    | 115.3 |
| 491. FT/SEC        | 20000 | 64.4   | 66.1   | 69.6   | 74.1   | 76.9   | 79.8   | 81.7   | 83.8   | 87.8   | 76.4   | 73.8   |     |    |    |    |    |    | 115.0 |
|                    | 25000 | 65.9   | 66.4   | 68.3   | 73.1   | 75.7   | 77.3   | 78.3   | 81.1   | 85.9   | 75.0   | 72.9   |     |    |    |    |    |    | 114.3 |
|                    | 31500 | 64.4   | 65.5   | 67.2   | 71.6   | 74.0   | 77.2   | 78.5   | 80.3   | 83.5   | 74.1   | 71.5   |     |    |    |    |    |    | 113.6 |
|                    | 40000 | 65.2   | 64.8   | 66.7   | 70.0   | 72.0   | 74.3   | 76.1   | 77.8   | 81.5   | 72.2   | 66.0   |     |    |    |    |    |    | 112.9 |
|                    | 50000 | 67.7   | 66.3   | 68.3   | 69.1   | 70.3   | 72.4   | 74.7   | 74.4   | 78.3   | 70.6   | 65.9   |     |    |    |    |    |    | 112.5 |
|                    | 63000 | 70.5   | 68.2   | 70.8   | 71.0   | 72.6   | 73.9   | 75.8   | 73.8   | 77.0   | 71.5   | 68.5   |     |    |    |    |    |    | 115.7 |
|                    | 80000 | 74.3   | 72.5   | 74.8   | 75.3   | 76.7   | 78.7   | 79.6   | 79.1   | 79.1   | 75.8   | 72.1   |     |    |    |    |    |    | 123.8 |
| OVERALL MEASURED   |       |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |    |       |
| OVERALL CALCULATED |       | 85.6   | 88.3   | 91.1   | 93.8   | 96.4   | 97.9   | 99.1   | 99.8   | 100.7  | 96.1   | 91.1   |     |    |    |    |    |    | 121.7 |
| PREC               |       | 98.1   | 101.5  | 104.6  | 107.1  | 110.1  | 111.5  | 112.3  | 112.8  | 113.3  | 108.2  | 103.7  |     |    |    |    |    |    |       |

|                    | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIANS) |            |            |            |            |             |             |             |             |             |             |           |           |           |           |           |
|--------------------|-------|--|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|
|                    |       | 59. (1.02)                                 | 68. (1.19) | 78. (1.36) | 88. (1.53) | 90. (1.57) | 100. (1.74) | 110. (1.91) | 120. (2.09) | 130. (2.26) | 140. (2.43) | 150. (2.60) | 0. (0.00) | 0. (0.00) | 0. (0.00) | 0. (0.00) | 0. (0.00) |
| SIDELINE 200. FT.  | 50    |  |            |            |            |            |             |             |             |             |             |             |           |           |           |           |           |
| ( 60.96 M)         | 63    |  |            |            |            |            |             |             |             |             |             |             |           |           |           |           |           |
| VEHICLE R-55       | 100   | 53.2                                       | 55.8       | 59.2       | 60.3       | 59.6       | 57.2        | 52.0        | 47.1        | 46.6        | 46.3        | 44.0        |           |           |           |           |           |
| CC-FIC 5           | 125   | 44.1                                       | 45.3       | 49.1       | 47.5       | 50.6       | 47.7        | 47.2        | 47.3        | 47.2        | 47.1        | 43.9        |           |           |           |           |           |
| LCC SCHENECTADY    | 160   | 42.6                                       | 44.4       | 45.5       | 46.2       | 47.5       | 47.6        | 48.1        | 47.9        | 48.8        | 48.0        | 44.7        |           |           |           |           |           |
| DATE 11/18/74      | 200   | 43.0                                       | 44.3       | 45.4       | 46.8       | 48.9       | 50.0        | 50.2        | 51.3        | 50.7        | 50.6        | 46.7        |           |           |           |           |           |
| RUN 20/1           | 250   | 44.4                                       | 46.0       | 49.1       | 49.7       | 50.3       | 50.4        | 50.9        | 50.2        | 49.6        | 48.6        | 44.2        |           |           |           |           |           |
| TAPE               | 315   | 45.3                                       | 47.9       | 49.2       | 50.2       | 50.7       | 51.1        | 50.8        | 50.4        | 49.7        | 48.7        | 43.7        |           |           |           |           |           |
| BAR 29.7 HG        | 400   | 44.2                                       | 46.8       | 48.7       | 49.6       | 50.9       | 50.8        | 50.7        | 51.0        | 50.1        | 47.3        | 41.7        |           |           |           |           |           |
| (300428. H/M2)     | 500   | 43.1                                       | 45.7       | 46.8       | 48.8       | 50.3       | 50.7        | 50.8        | 50.4        | 48.4        | 46.6        | 40.7        |           |           |           |           |           |
| TAMP 58. DEG F     | 630   | 44.3                                       | 47.4       | 49.2       | 51.4       | 52.5       | 53.3        | 53.5        | 53.0        | 52.0        | 48.9        | 41.1        |           |           |           |           |           |
| (288. DEG K)       | 800   | 46.6                                       | 49.0       | 50.6       | 52.1       | 52.9       | 53.7        | 54.3        | 54.4        | 52.6        | 49.4        | 41.0        |           |           |           |           |           |
| TWET 52. DEG F     | 1000  | 44.8                                       | 47.9       | 50.2       | 50.9       | 53.0       | 53.6        | 54.4        | 54.7        | 53.7        | 48.4        | 39.9        |           |           |           |           |           |
| (284. DEG K)       | 1250  | 47.6                                       | 52.7       | 54.6       | 56.6       | 59.2       | 61.0        | 61.8        | 61.5        | 60.5        | 54.4        | 44.0        |           |           |           |           |           |
| MACT 8.33 CM/M3    | 1600  | 47.9                                       | 53.1       | 55.9       | 58.5       | 61.0       | 62.1        | 61.6        | 61.3        | 59.7        | 53.1        | 42.3        |           |           |           |           |           |
| ( 589. RAD/SEC)    | 2000  | 48.7                                       | 53.4       | 56.0       | 59.6       | 61.3       | 62.1        | 61.6        | 60.6        | 58.7        | 51.5        | 41.5        |           |           |           |           |           |
| NFA 5622. RPM      | 2500  | 51.5                                       | 54.7       | 57.3       | 60.7       | 63.4       | 64.9        | 66.1        | 64.1        | 63.4        | 54.2        | 43.9        |           |           |           |           |           |
| ( 589. RAD/SEC)    | 3150  | 50.4                                       | 54.9       | 58.0       | 60.9       | 64.2       | 65.6        | 66.3        | 64.7        | 63.7        | 53.6        | 43.3        |           |           |           |           |           |
| NFK 5627. RPM      | 4000  | 48.6                                       | 53.4       | 59.0       | 61.5       | 65.2       | 66.1        | 65.0        | 64.8        | 62.0        | 53.2        | 41.8        |           |           |           |           |           |
| ( 589. RAD/SEC)    | 5000  | 45.5                                       | 51.1       | 55.4       | 59.2       | 61.9       | 62.3        | 63.1        | 62.4        | 60.0        | 50.9        | 39.2        |           |           |           |           |           |
| NFD 8823. RPM      | 6300  | 43.7                                       | 48.9       | 53.3       | 57.6       | 59.6       | 61.3        | 61.3        | 61.0        | 58.7        | 48.9        | 36.2        |           |           |           |           |           |
| ( 924. RAD/SEC)    | 8000  | 40.7                                       | 47.1       | 50.7       | 55.2       | 57.4       | 58.3        | 59.3        | 58.6        | 55.9        | 45.9        | 32.8        |           |           |           |           |           |
| NC. OF BLADES 15   | 10000 | 37.7                                       | 42.5       | 47.7       | 52.2       | 54.4       | 55.8        | 56.3        | 55.3        | 53.8        | 42.4        | 28.2        |           |           |           |           |           |
| FAN TIP SPEED      | 12500 | 35.2                                       | 39.3       | 43.7       | 48.8       | 51.3       | 52.6        | 52.9        | 52.5        | 50.3        | 36.0        | 20.8        |           |           |           |           |           |
| 491. FT/SEC        | 16000 | 27.1                                       | 32.3       | 36.9       | 41.8       | 44.3       | 46.1        | 45.8        | 44.8        | 44.0        | 25.8        | 8.4         |           |           |           |           |           |
|                    | 20000 | 21.9                                       | 26.2       | 31.2       | 36.2       | 38.8       | 39.7        | 40.3        | 38.8        | 37.0        | 15.7        |             |           |           |           |           |           |
|                    | 25000 | 15.3                                       | 19.1       | 22.9       | 28.4       | 30.7       | 30.9        | 30.2        | 27.3        | 24.6        | 0.6         |             |           |           |           |           |           |
|                    | 31500 | 1.9  | 7.4        | 11.6       | 17.0       | 19.0       | 20.3        | 18.0        | 13.6        | 6.7         |             |             |           |           |           |           |           |
|                    | 40000 |  |            |            | 0.6        | 2.1        | 1.8         |             |             |             |             |             |           |           |           |           |           |
|                    | 50000 |  |            |            |            |            |             |             |             |             |             |             |           |           |           |           |           |
|                    | 63000 |  |            |            |            |            |             |             |             |             |             |             |           |           |           |           |           |
|                    | 80000 |  |            |            |            |            |             |             |             |             |             |             |           |           |           |           |           |
| OVERALL CALCULATED |       | 60.2                                       | 64.1       | 67.3       | 69.9       | 72.4       | 73.4        | 73.8        | 72.6        | 71.8        | 63.7        | 65.7        |           |           |           |           |           |
| PND8               |       | 72.7                                       | 77.1       | 80.7       | 83.4       | 86.3       | 87.2        | 87.4        | 86.3        | 84.9        | 76.6        | 66.7        |           |           |           |           |           |

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|                    | 50.    | 64.    | 78.    | 88.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
| FREQ.              | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.98) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | 0.   | 100. | 110. | 110. | 110. | 110. |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| ( 60.96 M)         | 63     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| VEHICLE R=55       | 125    | 44.0   | 48.1   | 47.9   | 49.1   | 52.1   | 54.0   | 54.2   | 52.4   | 50.3   | 51.0   | 49.7 |      |      |      |      |      |
| CCNFIC 5           | 160    | 45.6   | 48.4   | 49.0   | 50.2   | 52.6   | 51.4   | 51.2   | 51.6   | 51.0   | 50.6   | 48.7 |      |      |      |      |      |
| LCC SCHEMECTADY    | 200    | 45.0   | 46.6   | 47.9   | 49.1   | 51.9   | 53.0   | 53.2   | 54.1   | 53.7   | 53.3   | 50.5 |      |      |      |      |      |
| DATE 11/18/74      | 250    | 46.9   | 49.5   | 51.0   | 53.0   | 53.3   | 53.4   | 54.6   | 53.7   | 53.3   | 52.4   | 48.7 |      |      |      |      |      |
| RUN 20/2           | 315    | 49.3   | 51.2   | 52.7   | 53.9   | 54.0   | 54.6   | 54.8   | 54.4   | 53.5   | 52.2   | 48.0 |      |      |      |      |      |
| TAPE               | 400    | 47.7   | 49.8   | 51.4   | 52.6   | 53.4   | 53.8   | 53.9   | 53.8   | 52.8   | 51.3   | 46.0 |      |      |      |      |      |
| BAR 29.7 HG        | 500    | 45.9   | 48.2   | 49.8   | 51.8   | 53.3   | 53.4   | 54.1   | 53.4   | 51.9   | 50.4   | 44.9 |      |      |      |      |      |
| (00420. N/M2)      | 630    | 47.3   | 49.9   | 52.0   | 54.2   | 55.5   | 56.1   | 56.7   | 55.8   | 54.5   | 51.4   | 44.1 |      |      |      |      |      |
| TAMB 58. DEG F     | 800    | 48.6   | 50.7   | 53.4   | 54.3   | 55.6   | 56.9   | 57.1   | 57.1   | 55.4   | 51.4   | 44.5 |      |      |      |      |      |
| (288. DEG K)       | 1000   | 47.5   | 50.1   | 52.7   | 53.7   | 55.2   | 56.3   | 56.4   | 57.5   | 58.7   | 49.9   | 42.4 |      |      |      |      |      |
| TWET 52. DEG F     | 1250   | 47.9   | 51.2   | 53.8   | 55.9   | 58.4   | 60.0   | 61.3   | 61.5   | 59.5   | 52.4   | 43.5 |      |      |      |      |      |
| (264. DEG K)       | 1500   | 53.2   | 58.3   | 62.7   | 64.0   | 66.3   | 69.1   | 68.3   | 68.1   | 65.0   | 56.4   | 45.8 |      |      |      |      |      |
| HACT 8.30 GW/M3    | 2000   | 52.2   | 56.6   | 59.0   | 62.6   | 64.6   | 65.1   | 65.3   | 64.3   | 61.2   | 52.7   | 44.2 |      |      |      |      |      |
| (.00030 KG/M3)     | 2500   | 51.2   | 56.2   | 60.0   | 63.4   | 65.4   | 65.9   | 64.8   | 62.7   | 53.9   | 43.7   |      |      |      |      |      |      |
| NFA 6424. RPM      | 3150   | 52.4   | 58.9   | 62.0   | 66.7   | 68.9   | 68.1   | 71.3   | 69.4   | 67.5   | 57.8   | 47.1 |      |      |      |      |      |
| ( 673. RAD/SEC)    | 4000   | 50.6   | 56.2   | 59.7   | 64.0   | 66.7   | 67.1   | 67.7   | 66.5   | 63.5   | 53.7   | 43.0 |      |      |      |      |      |
| NFK 6430. RPM      | 5000   | 51.0   | 56.3   | 60.6   | 64.4   | 67.9   | 69.3   | 67.9   | 67.9   | 62.5   | 54.2   | 42.7 |      |      |      |      |      |
| ( 673. RAD/SEC)    | 6300   | 47.9   | 52.9   | 57.3   | 61.6   | 63.8   | 65.6   | 65.8   | 65.3   | 60.6   | 51.7   | 39.7 |      |      |      |      |      |
| NFD 6823. RPM      | 8000   | 45.0   | 50.6   | 55.0   | 59.5   | 61.4   | 62.5   | 63.6   | 62.8   | 58.4   | 48.9   | 35.5 |      |      |      |      |      |
| ( 924. RAD/SEC)    | 10000  | 41.9   | 47.5   | 53.2   | 57.0   | 59.1   | 60.3   | 60.8   | 60.6   | 56.3   | 45.4   | 29.9 |      |      |      |      |      |
| NO. OF BLADES 15   | 12500  | 38.5   | 43.9   | 48.5   | 53.0   | 55.5   | 56.6   | 57.4   | 56.3   | 50.6   | 39.5   | 22.5 |      |      |      |      |      |
| FAN TIP SPEED      | 16000  | 30.1   | 36.3   | 41.4   | 46.3   | 48.5   | 49.4   | 50.0   | 49.6   | 42.7   | 28.6   | 8.9  |      |      |      |      |      |
| 561. FT/SEC        | 20000  | 24.2   | 29.7   | 35.7   | 40.9   | 42.8   | 43.5   | 44.3   | 42.8   | 35.8   | 18.7   |      |      |      |      |      |      |
|                    | 25000  | 16.1   | 21.9   | 27.6   | 32.4   | 34.2   | 35.2   | 35.2   | 31.8   | 23.8   | 3.4    |      |      |      |      |      |      |
|                    | 31500  | 2.9    | 10.2   | 15.9   | 21.7   | 23.7   | 23.6   | 22.8   | 18.4   | 7.4    |        |      |      |      |      |      |      |
|                    | 40000  |        |        |        | 4.4    | 6.4    | 5.8    | 3.5    |        |        |        |      |      |      |      |      |      |
|                    | 53000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| OVERALL CALCULATED |        | 62.1   | 66.7   | 70.1   | 73.4   | 75.7   | 76.7   | 77.2   | 76.3   | 73.4   | 66.8   | 59.3 |      |      |      |      |      |
| PND8               |        | 75.2   | 80.6   | 83.8   | 87.6   | 89.8   | 90.0   | 91.5   | 90.4   | 87.9   | 79.7   | 70.1 |      |      |      |      |      |



ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 58.    | 68.    | 78.    | 88.    | 98.    | 108.   | 118.   | 128.   | 138.   | 148.   | 159.   | 0.   | 0.  | 0.  | 0.  | 0.  | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|------|
| FREQ.              | (1.02) | (1.19) | (1.38) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.  | (0. | (0. | (0. | (0. | (0.) |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| ( 60.98 F)         | 63     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| VEHICLE R-55       | 125    | 47.5   | 49.3   | 51.4   | 52.5   | 53.9   | 53.5   | 53.5   | 52.9   | 52.8   | 55.0   | 54.4 |     |     |     |     |      |
| CONFIC 5           | 160    | 49.0   | 51.2   | 52.3   | 53.6   | 54.5   | 54.5   | 55.8   | 55.9   | 56.6   | 56.2   | 53.0 |     |     |     |     |      |
| LCC SCHENECTADY    | 200    | 52.4   | 49.6   | 51.4   | 53.8   | 55.6   | 56.5   | 57.0   | 57.8   | 57.0   | 57.1   | 54.0 |     |     |     |     |      |
| DATE 11/18/74      | 200    | 52.8   | 53.0   | 55.1   | 56.7   | 58.0   | 57.6   | 58.9   | 58.4   | 57.3   | 57.1   | 53.0 |     |     |     |     |      |
| RUN 20/3           | 315    | 52.5   | 54.4   | 56.0   | 57.1   | 58.2   | 58.0   | 57.8   | 58.1   | 57.5   | 56.5   | 52.5 |     |     |     |     |      |
| TAPE               | 400    | 52.2   | 53.6   | 54.9   | 56.0   | 57.4   | 57.5   | 57.7   | 57.7   | 57.3   | 55.3   | 50.7 |     |     |     |     |      |
| BAR 29.7 HG        | 500    | 50.3   | 51.2   | 52.1   | 53.5   | 54.3   | 54.9   | 57.6   | 57.4   | 56.2   | 54.1   | 48.9 |     |     |     |     |      |
| (80428. N/M2)      | 630    | 51.7   | 52.9   | 53.5   | 54.8   | 55.2   | 59.3   | 59.4   | 59.5   | 58.0   | 54.4   | 48.4 |     |     |     |     |      |
| TAMB 58. DEG F     | 800    | 55.4   | 53.2   | 55.9   | 58.3   | 59.4   | 60.2   | 60.8   | 60.3   | 58.1   | 53.9   | 47.8 |     |     |     |     |      |
| (288. DEG K)       | 1000   | 51.0   | 53.1   | 54.5   | 56.9   | 58.2   | 59.1   | 59.4   | 58.7   | 58.4   | 52.7   | 45.9 |     |     |     |     |      |
| T-ET 51. DEG F     | 1250   | 50.6   | 53.5   | 55.8   | 57.8   | 60.1   | 61.4   | 62.8   | 62.2   | 60.7   | 53.9   | 46.0 |     |     |     |     |      |
| (284. DEG K)       | 1600   | 52.4   | 56.8   | 60.2   | 62.7   | 64.8   | 65.5   | 66.1   | 65.5   | 64.7   | 53.9   | 47.0 |     |     |     |     |      |
| HACT 7.86 CM/M3    | 2000   | 57.2   | 61.4   | 63.7   | 66.8   | 68.9   | 69.3   | 70.8   | 69.3   | 66.7   | 58.9   | 49.2 |     |     |     |     |      |
| (.00786 KG/M3)     | 2500   | 54.7   | 60.0   | 63.3   | 66.4   | 68.4   | 67.9   | 67.6   | 67.0   | 63.7   | 56.2   | 45.9 |     |     |     |     |      |
| MFA 7221. RPM      | 3150   | 54.1   | 60.2   | 63.2   | 67.4   | 69.6   | 69.6   | 69.6   | 69.1   | 67.0   | 57.8   | 47.3 |     |     |     |     |      |
| ( 758. RAD/SEC)    | 4000   | 55.3   | 60.4   | 64.5   | 68.7   | 70.4   | 70.9   | 71.7   | 71.0   | 67.5   | 58.0   | 47.0 |     |     |     |     |      |
| NFK 7228. RPM      | 5000   | 54.2   | 59.9   | 63.4   | 67.9   | 70.2   | 70.6   | 69.9   | 69.4   | 64.8   | 56.4   | 45.0 |     |     |     |     |      |
| ( 757. RAD/SEC)    | 6300   | 51.7   | 57.6   | 61.6   | 65.6   | 67.8   | 68.3   | 68.3   | 68.5   | 63.2   | 54.2   | 41.9 |     |     |     |     |      |
| NFD 8023. RPM      | 8000   | 49.0   | 54.9   | 59.8   | 63.4   | 65.1   | 66.5   | 67.1   | 66.3   | 60.9   | 51.4   | 38.0 |     |     |     |     |      |
| ( 824. RAD/SEC)    | 10000  | 46.7   | 52.8   | 58.5   | 62.0   | 63.6   | 64.3   | 65.4   | 63.6   | 59.6   | 48.9   | 33.5 |     |     |     |     |      |
| NO. OF BLADES IS   | 12500  | 44.5   | 48.3   | 53.6   | 57.5   | 60.1   | 60.6   | 60.9   | 59.8   | 53.4   | 42.3   | 25.3 |     |     |     |     |      |
| FAN TIP SPEED      | 16000  | 36.2   | 41.4   | 46.5   | 50.3   | 53.3   | 53.7   | 54.1   | 52.9   | 44.8   | 31.6   | 11.7 |     |     |     |     |      |
| 630. FT/SEC        | 20000  | 31.2   | 34.8   | 40.3   | 45.0   | 47.1   | 47.8   | 48.6   | 47.1   | 38.1   | 22.3   |      |     |     |     |     |      |
|                    | 25000  | 24.9   | 28.5   | 32.0   | 37.0   | 39.1   | 39.5   | 38.8   | 35.8   | 25.9   | 7.0    |      |     |     |     |     |      |
|                    | 31500  | 11.3   | 14.9   | 20.6   | 26.3   | 28.1   | 29.0   | 28.7   | 22.0   | 9.9    |        |      |     |     |     |     |      |
|                    | 40000  |        |        | 3.5    | 9.6    | 11.6   | 10.7   | 8.2    | 8.5    |        |        |      |     |     |     |     |      |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| OVERALL CALCULATED |        | 65.9   | 69.7   | 72.9   | 76.4   | 78.4   | 78.7   | 79.1   | 78.4   | 75.4   | 68.9   | 63.1 |     |     |     |     |      |
| PN38               |        | 78.7   | 83.1   | 86.6   | 90.2   | 92.1   | 92.5   | 93.0   | 92.4   | 89.3   | 81.5   | 72.3 |     |     |     |     |      |

ORIGINAL PAGE IS  
OF POOR QUALITY

|                    | 58.    | 68.    | 78.    | 88.    | 98.    | 108.   | 118.   | 128.   | 139.   | 145.   | 159.  | 0.     | 0.     | 0.     | 0.     | 0.     | 0.     | 0.     |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| FREQ. (1.02)       | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (3.0) | (3.18) | (3.36) | (3.54) | (3.72) | (3.90) | (4.08) | (4.26) |
| RADIAL 17. FT.     | 50     |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |        |        |
| ( S. M.)           | 63     |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |        |        |
| VEHICLE R=SS       | 100    | 71.7   | 74.0   | 75.4   | 75.8   | 77.5   | 78.5   | 83.7   | 80.1   | 81.3   | 85.6  | 89.3   |        |        |        |        |        | 119.3  |
| CONFIC S           | 125    | 79.2   | 74.0   | 74.1   | 78.8   | 81.8   | 83.0   | 89.9   | 83.4   | 84.6   | 86.3  | 89.3   |        |        |        |        |        | 118.3  |
| LCC SCHENECTADY    | 160    | 75.7   | 77.3   | 77.9   | 78.6   | 79.5   | 80.2   | 91.4   | 83.9   | 85.6   | 87.1  | 88.8   |        |        |        |        |        | 118.7  |
| DATE 11/18/74      | 200    | 75.2   | 75.8   | 76.6   | 78.1   | 80.5   | 82.7   | 88.9   | 84.9   | 86.3   | 88.3  | 90.3   |        |        |        |        |        | 118.4  |
| RJA 20/4           | 250    | 78.7   | 80.0   | 80.9   | 82.8   | 83.5   | 83.7   | 91.4   | 85.6   | 86.8   | 87.8  | 89.5   |        |        |        |        |        | 119.9  |
| TAPE               | 315    | 79.0   | 80.3   | 81.4   | 82.3   | 83.3   | 84.0   | 88.9   | 85.9   | 86.6   | 87.9  | 88.3   |        |        |        |        |        | 119.9  |
| BAR 29.7 MC        | 400    | 78.5   | 79.3   | 80.4   | 80.6   | 82.5   | 83.2   | 86.7   | 85.9   | 86.1   | 86.5  | 88.8   |        |        |        |        |        | 117.7  |
| (30428. N/M2)      | 500    | 76.8   | 78.3   | 78.9   | 80.1   | 81.8   | 82.8   | 85.4   | 84.6   | 85.3   | 85.9  | 88.3   |        |        |        |        |        | 117.0  |
| TAMB 58. DEG F     | 630    | 77.6   | 79.3   | 80.6   | 82.1   | 83.6   | 85.3   | 89.7   | 88.9   | 86.9   | 86.1  | 85.8   |        |        |        |        |        | 116.1  |
| (288. DEG K)       | 800    | 80.6   | 81.5   | 82.6   | 83.1   | 84.6   | 85.5   | 87.7   | 87.9   | 87.3   | 86.6  | 85.6   |        |        |        |        |        | 119.3  |
| T-ET 51. DEG F     | 1000   | 77.8   | 80.0   | 81.6   | 82.1   | 84.1   | 85.0   | 86.4   | 87.6   | 86.8   | 84.8  | 83.3   |        |        |        |        |        | 118.6  |
| (284. DEG K)       | 1250   | 78.4   | 79.8   | 81.6   | 83.2   | 84.6   | 86.8   | 88.4   | 89.4   | 89.3   | 85.3  | 83.8   |        |        |        |        |        | 119.9  |
| MACT 7.58 CM/N3    | 1600   | 78.6   | 81.8   | 83.9   | 85.5   | 87.9   | 89.3   | 90.1   | 91.1   | 90.6   | 85.6  | 83.1   |        |        |        |        |        | 121.8  |
| (100788 K2/N3)     | 2000   | 86.4   | 88.6   | 91.1   | 92.2   | 95.9   | 98.3   | 99.1   | 99.6   | 95.9   | 91.6  | 87.5   |        |        |        |        |        | 129.8  |
| NFA 8022. RPM      | 2500   | 82.1   | 86.6   | 89.6   | 92.3   | 94.9   | 95.3   | 95.9   | 96.1   | 92.6   | 88.4  | 84.5   |        |        |        |        |        | 127.1  |
| ( 840. RAD/SEC)    | 3150   | 81.3   | 87.3   | 89.6   | 93.0   | 95.4   | 95.3   | 98.1   | 97.8   | 94.3   | 88.9  | 85.7   |        |        |        |        |        | 127.8  |
| NFK 8030. RPM      | 4000   | 81.7   | 88.0   | 90.9   | 94.2   | 96.6   | 97.4   | 98.4   | 98.1   | 94.5   | 90.3  | 86.1   |        |        |        |        |        | 129.2  |
| ( 841. RAD/SEC)    | 5000   | 82.0   | 89.5   | 91.9   | 94.3   | 96.9   | 97.7   | 99.4   | 99.2   | 94.4   | 90.2  | 86.2   |        |        |        |        |        | 129.8  |
| NFD 8023. RPM      | 6000   | 80.3   | 85.7   | 90.1   | 93.5   | 95.1   | 96.8   | 97.9   | 98.6   | 93.8   | 89.9  | 85.0   |        |        |        |        |        | 128.9  |
| ( 924. RAD/SEC)    | 8000   | 79.6   | 85.2   | 89.4   | 91.6   | 94.6   | 95.6   | 97.7   | 97.9   | 94.4   | 89.1  | 84.8   |        |        |        |        |        | 126.3  |
| NO. OF BLADES 15   | 12500  | 79.5   | 83.7   | 87.7   | 90.8   | 93.8   | 95.0   | 97.3   | 97.2   | 93.6   | 88.5  | 83.7   |        |        |        |        |        | 127.9  |
| FAN TIP SPEED      | 16000  | 76.0   | 80.8   | 84.3   | 87.5   | 90.9   | 91.9   | 93.8   | 95.0   | 90.6   | 85.3  | 81.1   |        |        |        |        |        | 125.3  |
| 700. FT/SEC        | 20000  | 75.7   | 79.9   | 83.2   | 86.9   | 89.3   | 90.8   | 93.5   | 94.8   | 90.1   | 85.1  | 80.4   |        |        |        |        |        | 125.1  |
|                    | 25000  | 76.2   | 79.5   | 82.4   | 85.6   | 88.6   | 90.2   | 92.7   | 94.2   | 90.7   | 84.7  | 80.0   |        |        |        |        |        | 125.1  |
|                    | 31500  | 74.5   | 78.4   | 81.3   | 84.2   | 87.1   | 89.1   | 90.7   | 92.0   | 89.1   | 83.6  | 78.2   |        |        |        |        |        | 124.3  |
|                    | 40000  | 74.9   | 77.3   | 79.7   | 82.2   | 84.5   | 87.2   | 89.1   | 89.4   | 86.6   | 81.7  | 75.5   |        |        |        |        |        | 123.6  |
|                    | 50000  | 77.4   | 78.8   | 79.5   | 80.6   | 83.0   | 84.9   | 87.0   | 86.4   | 83.7   | 81.0  | 75.1   |        |        |        |        |        | 123.3  |
|                    | 63000  | 79.5   | 78.1   | 80.7   | 80.5   | 82.8   | 84.8   | 85.4   | 84.7   | 82.7   | 80.6  | 77.7   |        |        |        |        |        | 125.4  |
|                    | 80000  | 84.0   | 81.4   | 84.7   | 84.5   | 86.7   | 88.6   | 89.3   | 89.5   | 84.3   | 84.2  | 81.3   |        |        |        |        |        | 133.4  |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |        |        |
| OVERALL CALCULATED | 94.7   | 99.3   | 101.1  | 103.7  | 106.3  | 107.4  | 109.0  | 109.2  | 108.9  | 102.4  | 100.7 |        |        |        |        |        |        | 141.0  |
| PN28               | 106.7  | 111.2  | 114.1  | 116.7  | 119.2  | 120.2  | 121.4  | 121.9  | 118.9  | 115.7  | 112.7 |        |        |        |        |        |        |        |

MODEL SOUND PRESSURE LEVELS (50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 0, 0, 0, 0, 0, 0)  
 PRCC, DATE - MONTH 1, DAY 22, HR. 15.3  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.              | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0    | 0    | 0    | 0    | 0    | 0    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
|                    | (1.02) | (1.10) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0)  | (10) | (10) | (10) | (10) | (10) |
| SIDE LINE 200. FT. | 50     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| ( 60.96 M)         | 60     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| VEHICLE R-55       | 125    | 48.7   | 51.8   | 53.6   | 54.3   | 55.9   | 56.5   | 71.0   | 56.4   | 56.0   | 57.9   | 57.9 |      |      |      |      |      |
| CONFIG 5           | 160    | 56.1   | 55.7   | 56.3   | 57.2   | 60.1   | 60.9   | 67.1   | 59.5   | 59.1   | 58.5   | 57.7 |      |      |      |      |      |
| LCC SCHEMECTADY    | 200    | 52.5   | 54.9   | 50.0   | 56.9   | 57.7   | 58.0   | 68.6   | 59.0   | 60.0   | 59.1   | 58.9 |      |      |      |      |      |
| DATE 11/18/74      | 250    | 51.9   | 53.3   | 54.6   | 56.3   | 58.6   | 60.5   | 66.8   | 60.8   | 60.6   | 60.2   | 58.2 |      |      |      |      |      |
| RUN 2C/4           | 315    | 55.3   | 57.4   | 58.8   | 60.9   | 61.5   | 61.4   | 68.4   | 61.4   | 61.0   | 59.5   | 57.2 |      |      |      |      |      |
| TAPE               | 430    | 55.5   | 57.6   | 59.2   | 60.4   | 61.2   | 61.5   | 65.8   | 61.6   | 60.6   | 59.3   | 55.7 |      |      |      |      |      |
| BAR 29.7 HG        | 500    | 54.9   | 56.5   | 58.1   | 58.5   | 60.4   | 60.7   | 63.4   | 61.5   | 60.0   | 57.9   | 53.9 |      |      |      |      |      |
| ( 103420. N/M2)    | 630    | 53.1   | 55.2   | 56.5   | 58.0   | 59.6   | 60.1   | 62.1   | 60.1   | 59.1   | 57.9   | 53.2 |      |      |      |      |      |
| TAMB 58. DEG F     | 800    | 53.7   | 56.3   | 58.2   | 59.9   | 61.2   | 62.8   | 64.2   | 62.2   | 60.5   | 57.0   | 52.4 |      |      |      |      |      |
| ( 288. DEG K)      | 1000   | 56.6   | 58.4   | 60.1   | 60.8   | 62.1   | 62.7   | 64.1   | 63.1   | 60.8   | 57.3   | 51.8 |      |      |      |      |      |
| T-ET 51. DEG F     | 1250   | 53.7   | 56.8   | 58.9   | 59.6   | 61.5   | 62.1   | 62.7   | 62.7   | 60.1   | 55.3   | 49.1 |      |      |      |      |      |
| ( 284. DEG K)      | 1500   | 54.1   | 56.4   | 58.8   | 60.6   | 61.9   | 63.7   | 64.5   | 64.2   | 62.4   | 55.6   | 49.2 |      |      |      |      |      |
| NACT 7.66 CM/M3    | 2000   | 54.1   | 58.3   | 60.9   | 62.7   | 65.8   | 66.6   | 66.1   | 65.8   | 63.4   | 55.5   | 48.8 |      |      |      |      |      |
| ( 1.00760 KG/M3)   | 2500   | 61.7   | 64.8   | 67.9   | 70.3   | 72.8   | 74.8   | 74.8   | 74.8   | 68.3   | 61.1   | 51.9 |      |      |      |      |      |
| NFA 8022. RPM      | 3150   | 57.2   | 62.7   | 68.2   | 69.1   | 71.7   | 71.7   | 71.4   | 70.3   | 64.8   | 57.5   | 48.4 |      |      |      |      |      |
| ( 846. RAC/SEC)    | 4000   | 56.1   | 63.1   | 65.9   | 69.8   | 71.9   | 71.4   | 71.3   | 71.6   | 66.1   | 57.5   | 48.8 |      |      |      |      |      |
| NFK 8033. RPM      | 5000   | 57.5   | 64.1   | 68.2   | 71.4   | 74.2   | 74.6   | 74.0   | 74.0   | 68.4   | 61.3   | 51.0 |      |      |      |      |      |
| ( 841. RAC/SEC)    | 6300   | 55.7   | 63.1   | 66.6   | 70.2   | 72.4   | 72.8   | 72.9   | 71.1   | 65.2   | 57.5   | 47.2 |      |      |      |      |      |
| NFC 8023. RPM      | 8000   | 55.2   | 63.8   | 68.8   | 69.6   | 72.1   | 72.3   | 73.1   | 71.2   | 64.1   | 56.1   | 45.2 |      |      |      |      |      |
| ( 924. RAC/SEC)    | 10000  | 52.2   | 58.8   | 64.0   | 67.7   | 69.1   | 70.3   | 70.3   | 68.3   | 61.8   | 53.6   | 40.8 |      |      |      |      |      |
| NO. OF BLADES 15   | 12500  | 49.7   | 56.7   | 61.7   | 64.2   | 67.1   | 67.5   | 68.4   | 66.6   | 60.1   | 49.8   | 36.2 |      |      |      |      |      |
| FAN TIP SPEED      | 16000  | 47.0   | 52.8   | 57.8   | 61.3   | 64.1   | 64.6   | 65.4   | 63.0   | 55.8   | 44.7   | 28.3 |      |      |      |      |      |
| 700. FT/SEC        | 20000  | 39.2   | 46.8   | 50.7   | 54.3   | 57.6   | 57.7   | 57.9   | 56.1   | 47.2   | 34.2   | 15.8 |      |      |      |      |      |
|                    | 25000  | 33.2   | 40.0   | 44.7   | 49.0   | 51.1   | 51.6   | 52.1   | 49.8   | 39.3   | 24.5   | 8.0  |      |      |      |      |      |
|                    | 31500  | 25.7   | 32.2   | 37.0   | 41.0   | 43.6   | 43.8   | 43.5   | 40.4   | 29.4   | 18.4   |      |      |      |      |      |      |
|                    | 40000  | 12.1   | 20.3   | 25.8   | 29.6   | 32.1   | 32.2   | 30.2   | 25.2   | 12.3   |        |      |      |      |      |      |      |
|                    | 50000  |        | 3.2    | 9.0    | 12.8   | 14.6   | 14.7   | 11.7   | 3.5    |        |        |      |      |      |      |      |      |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| OVERALL CALCULATED |        | 68.7   | 73.2   | 76.4   | 79.2   | 81.5   | 82.1   | 83.1   | 81.4   | 76.5   | 71.2   | 66.8 |      |      |      |      |      |
| PRCC               |        | 81.6   | 86.7   | 90.1   | 93.8   | 95.4   | 95.9   | 96.4   | 95.3   | 90.4   | 84.0   | 78.7 |      |      |      |      |      |



MODEL SC033 PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. 24V) P.W.C. DATE - MONTH 11 DAY 22 HR. 15.3  
ANGLES FROM INLET IN DEGREES (AND RADIAN)

|  | 50    | 60    | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 0    | 0   | 0   | 0   | 0   | 0   | PWL   |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|-----|-----|-----|-------|
| FREQ. (1.02)(1.19)(1.36)(1.53)(1.71)(1.88)(2.06)(2.24)(2.42)(2.60)(2.78)0. | 110   | 110   | 110   | 110   | 110   | 110   | 110   | 110   | 110   | 110   | 110   | 110  | 110 | 110 | 110 | 110 | 110 | 110   |
| 50   |       |       |       |       |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
| 63   |       |       |       |       |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
| 80   |       |       |       |       |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
| RADIAL 17. FT.   |       |       |       |       |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
| ( 5. M)  | 100   | 71.2  | 73.8  | 75.6  | 75.1  | 76.5  | 77.2  | 78.4  | 78.9  | 81.3  | 85.6  | 88.8 |     |     |     |     |     | 114.0 |
| VEHICLE P-55   | 125   | 79.0  | 77.5  | 77.4  | 79.3  | 81.5  | 82.7  | 82.7  | 83.1  | 84.3  | 85.9  | 89.0 |     |     |     |     |     | 116.5 |
| CONFIG S   | 160   | 76.5  | 77.8  | 77.6  | 78.6  | 79.3  | 79.7  | 81.4  | 83.4  | 85.3  | 86.8  | 89.0 |     |     |     |     |     | 116.2 |
| LDC SCHEWECTADY  | 200   | 75.5  | 76.0  | 77.4  | 77.6  | 80.0  | 82.0  | 83.2  | 84.6  | 86.1  | 88.5  | 90.8 |     |     |     |     |     | 117.4 |
| DATE 11/18/74  | 250   | 78.5  | 80.0  | 81.4  | 82.3  | 83.5  | 84.2  | 85.4  | 85.9  | 86.8  | 88.0  | 89.3 |     |     |     |     |     | 118.6 |
| RJN 20/5   | 315   | 79.5  | 83.8  | 81.6  | 82.1  | 83.0  | 83.7  | 84.9  | 85.4  | 86.2  | 88.0  | 89.3 |     |     |     |     |     | 118.3 |
| TAPE   | 400   | 78.3  | 79.5  | 83.6  | 80.9  | 82.0  | 82.5  | 84.4  | 85.1  | 86.1  | 86.6  | 87.3 |     |     |     |     |     | 117.4 |
| BAR 29.7 MG  | 500   | 76.5  | 78.0  | 78.6  | 80.4  | 81.5  | 82.0  | 84.2  | 84.9  | 85.6  | 86.1  | 89.8 |     |     |     |     |     | 116.0 |
| (3C420. W/M2)  | 675   | 77.6  | 79.3  | 80.6  | 82.1  | 83.5  | 85.0  | 86.2  | 86.9  | 87.1  | 86.6  | 89.8 |     |     |     |     |     | 118.4 |
| TAMP 5A. DEG F   | 800   | 80.6  | 81.3  | 82.6  | 83.1  | 84.6  | 85.8  | 87.2  | 87.9  | 87.1  | 86.3  | 89.8 |     |     |     |     |     | 119.2 |
| (288. DEG K)   | 1000  | 77.8  | 79.8  | 81.4  | 82.1  | 83.8  | 84.8  | 86.1  | 87.4  | 87.1  | 84.3  | 83.3 |     |     |     |     |     | 118.2 |
| THEY 51. DEG F   | 1250  | 77.9  | 80.3  | 81.1  | 82.9  | 84.8  | 86.8  | 88.4  | 89.9  | 89.3  | 85.6  | 83.6 |     |     |     |     |     | 120.0 |
| (264. DEG K)   | 1600  | 78.4  | 82.1  | 84.1  | 86.0  | 88.6  | 89.3  | 90.6  | 91.4  | 90.6  | 85.1  | 83.1 |     |     |     |     |     | 122.0 |
| MACT 7.68 CM/M3  | 2000  | 88.9  | 89.1  | 90.4  | 93.2  | 95.4  | 98.3  | 98.9  | 99.9  | 95.4  | 91.4  | 87.3 |     |     |     |     |     | 129.7 |
| (.00788 CM/M3)   | 2500  | 82.3  | 87.1  | 89.4  | 92.8  | 94.9  | 95.1  | 95.9  | 96.8  | 92.9  | 88.1  | 84.5 |     |     |     |     |     | 127.2 |
| NFA 8019. RPM  | 3150  | 81.6  | 87.1  | 89.8  | 93.3  | 95.9  | 96.3  | 95.8  | 98.5  | 94.6  | 89.1  | 85.5 |     |     |     |     |     | 128.3 |
| ( 840. RAD/SEC)  | 4000  | 84.0  | 89.3  | 92.2  | 95.7  | 97.9  | 99.5  | 99.5  | 101.5 | 97.5  | 93.3  | 88.7 |     |     |     |     |     | 131.2 |
| NFK 8027. RPM  | 5000  | 82.2  | 89.0  | 91.2  | 94.7  | 96.8  | 97.7  | 98.4  | 98.6  | 94.5  | 90.0  | 85.4 |     |     |     |     |     | 129.4 |
| ( 840. RAD/SEC)  | 6300  | 82.5  | 89.8  | 91.6  | 94.6  | 96.9  | 98.2  | 98.7  | 99.7  | 94.4  | 90.7  | 85.9 |     |     |     |     |     | 130.0 |
| NFD 8023. RPM  | 8000  | 89.6  | 88.7  | 90.4  | 94.0  | 95.1  | 97.1  | 97.4  | 98.6  | 94.3  | 89.4  | 85.8 |     |     |     |     |     | 128.9 |
| ( 924. RAD/SEC)  | 10000 | 79.9  | 85.5  | 89.1  | 91.8  | 94.6  | 96.1  | 97.9  | 98.1  | 94.4  | 89.6  | 85.4 |     |     |     |     |     | 128.6 |
| NO. OF BLADES IS 12500   | 80.3  | 83.7  | 87.9  | 91.1  | 93.5  | 95.3  | 97.0  | 97.4  | 92.8  | 88.3  | 83.9  |      |     |     |     |     |     | 127.8 |
| FAN TIP SPEED 16000  | 75.5  | 80.6  | 84.5  | 88.0  | 89.9  | 91.9  | 93.8  | 95.2  | 98.1  | 84.6  | 80.9  |      |     |     |     |     |     | 125.2 |
| 790. FT/SEC 20000  | 75.5  | 79.9  | 83.5  | 86.6  | 89.5  | 91.3  | 93.8  | 94.8  | 98.6  | 84.9  | 80.4  |      |     |     |     |     |     | 125.3 |
| 25000  | 76.5  | 79.2  | 82.6  | 85.4  | 88.6  | 90.4  | 93.2  | 94.4  | 90.7  | 84.7  | 80.2  |      |     |     |     |     |     | 125.3 |
| 31500  | 74.8  | 78.6  | 81.1  | 84.9  | 87.1  | 89.3  | 91.2  | 92.5  | 89.4  | 83.4  | 77.9  |      |     |     |     |     |     | 124.7 |
| 40000  | 74.9  | 77.0  | 79.4  | 82.4  | 84.5  | 87.2  | 89.6  | 89.9  | 87.1  | 82.0  | 75.2  |      |     |     |     |     |     | 123.6 |
| 50000  | 76.7  | 77.3  | 79.0  | 80.1  | 82.8  | 84.7  | 87.2  | 86.6  | 84.0  | 80.5  | 75.4  |      |     |     |     |     |     | 123.3 |
| 63000  | 89.0  | 77.8  | 80.5  | 79.5  | 81.3  | 83.3  | 84.7  | 83.7  | 82.2  | 80.1  | 77.7  |      |     |     |     |     |     | 124.6 |
| 80000  | 84.0  | 83.4  | 83.7  | 82.5  | 84.7  | 86.4  | 87.8  | 87.3  | 85.8  | 83.4  | 81.1  |      |     |     |     |     |     | 131.0 |
| OVERALL MEASURED   |       |       |       |       |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
| OVERALL CALCULATED   | 94.9  | 98.5  | 101.0 | 104.0 | 106.2 | 107.7 | 108.5 | 109.6 | 105.9 | 102.4 | 100.8 |      |     |     |     |     |     | 140.7 |
| PWLB   | 107.1 | 111.6 | 114.0 | 117.8 | 119.3 | 120.5 | 120.9 | 122.4 | 119.1 | 115.8 | 112.4 |      |     |     |     |     |     |       |

| PARAMETER          | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0    | 0   | 0   | 0   | 0   | 0   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|
| REC.               | (1.02) | (1.10) | (1.30) | (1.53) | (1.71) | (1.86) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0)  | (0) | (0) | (0) | (0) | (0) |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| ( 66.96 M)         | 63     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| VEHICLE            | 100    | 48.2   | 51.5   | 53.9   | 55.5   | 56.7   | 58.2   | 59.7   | 59.1   | 56.0   | 57.9   | 57.4 |     |     |     |     |     |
| ( R=50)            | 125    | 55.9   | 55.2   | 55.5   | 56.7   | 59.0   | 60.6   | 59.9   | 59.3   | 58.9   | 58.8   | 57.4 |     |     |     |     |     |
| CONFIG             | 160    | 53.3   | 55.4   | 55.7   | 56.9   | 57.7   | 57.5   | 58.0   | 59.4   | 59.8   | 58.8   | 57.2 |     |     |     |     |     |
| LCC SCHEMECTADy    | 230    | 52.2   | 53.5   | 55.4   | 55.8   | 58.1   | 59.7   | 60.2   | 60.5   | 60.4   | 60.4   | 58.7 |     |     |     |     |     |
| DATE 11/18/74      | 250    | 55.1   | 57.4   | 59.3   | 60.4   | 61.5   | 61.9   | 62.4   | 61.7   | 61.0   | 59.8   | 56.9 |     |     |     |     |     |
| RJM 20/5           | 315    | 56.0   | 59.1   | 59.5   | 60.1   | 61.0   | 61.3   | 61.0   | 61.1   | 60.9   | 59.6   | 55.7 |     |     |     |     |     |
| TAPE               | 400    | 54.7   | 56.8   | 58.4   | 58.8   | 59.9   | 60.0   | 61.2   | 60.7   | 60.0   | 57.9   | 54.4 |     |     |     |     |     |
| BAR 29.7 MG        | 530    | 52.8   | 55.2   | 56.3   | 58.2   | 59.3   | 60.1   | 60.0   | 60.4   | 59.4   | 57.2   | 52.7 |     |     |     |     |     |
| (03424. M/M2)      | 630    | 53.7   | 56.3   | 58.2   | 59.9   | 61.5   | 62.3   | 62.7   | 62.2   | 60.7   | 57.5   | 52.4 |     |     |     |     |     |
| TAMB 50. DEG F     | 660    | 56.6   | 58.2   | 60.1   | 60.0   | 62.1   | 62.9   | 63.6   | 63.1   | 60.5   | 57.1   | 52.0 |     |     |     |     |     |
| (280. DEG K)       | 1000   | 53.7   | 56.5   | 58.7   | 59.6   | 61.2   | 61.8   | 62.4   | 62.4   | 60.3   | 54.8   | 49.1 |     |     |     |     |     |
| T-ET 51. DEG F     | 1250   | 53.6   | 56.9   | 58.3   | 60.3   | 62.1   | 63.7   | 64.5   | 64.7   | 62.4   | 55.8   | 49.0 |     |     |     |     |     |
| (284. DEG K)       | 1800   | 53.9   | 58.5   | 61.1   | 63.2   | 65.8   | 66.8   | 66.6   | 66.0   | 63.4   | 55.0   | 48.0 |     |     |     |     |     |
| NACT 7.66 G/M3     | 2030   | 62.2   | 65.3   | 67.2   | 70.3   | 72.3   | 74.8   | 74.6   | 74.3   | 67.0   | 60.9   | 51.7 |     |     |     |     |     |
| (.00766 KG/M3)     | 2500   | 57.4   | 63.2   | 66.0   | 69.6   | 71.7   | 71.4   | 71.4   | 70.0   | 65.1   | 57.3   | 48.4 |     |     |     |     |     |
| NFA 8019. RPM      | 3150   | 56.4   | 62.9   | 66.2   | 69.9   | 72.4   | 72.4   | 71.0   | 72.4   | 66.4   | 57.7   | 48.5 |     |     |     |     |     |
| ( 640. RAD/SEC)    | 4000   | 58.3   | 64.6   | 68.2   | 71.9   | 73.9   | 75.1   | 74.2   | 74.8   | 68.7   | 61.1   | 50.5 |     |     |     |     |     |
| NFK 8627. RPM      | 5000   | 56.2   | 63.1   | 66.9   | 70.7   | 72.4   | 73.1   | 72.9   | 71.6   | 65.2   | 57.3   | 46.4 |     |     |     |     |     |
| ( 640. RAD/SEC)    | 6300   | 55.7   | 64.1   | 66.6   | 69.8   | 72.1   | 72.8   | 72.3   | 71.7   | 64.1   | 56.6   | 44.0 |     |     |     |     |     |
| NFD 8823. RPM      | 8000   | 52.5   | 59.8   | 64.2   | 68.2   | 69.1   | 70.5   | 69.8   | 69.3   | 62.3   | 53.1   | 40.8 |     |     |     |     |     |
| ( 924. RAD/SEC)    | 10000  | 49.9   | 57.0   | 61.5   | 64.5   | 67.1   | 68.0   | 68.6   | 68.0   | 60.1   | 50.5   | 38.7 |     |     |     |     |     |
| NO. OF BLADES IS   | 12500  | 47.7   | 52.0   | 58.0   | 61.5   | 63.8   | 64.8   | 65.2   | 63.3   | 55.1   | 44.5   | 28.5 |     |     |     |     |     |
| FAN TIP SPEED      | 16000  | 38.7   | 45.8   | 50.9   | 54.8   | 56.6   | 57.7   | 57.9   | 54.4   | 46.7   | 33.5   | 14.7 |     |     |     |     |     |
| 760. FT/SEC        | 20000  | 33.0   | 40.8   | 45.0   | 48.7   | 51.4   | 52.1   | 52.4   | 49.8   | 39.8   | 24.2   | 8.0  |     |     |     |     |     |
|                    | 25000  | 25.9   | 32.0   | 37.2   | 40.7   | 43.6   | 44.0   | 44.0   | 40.6   | 29.4   | 18.4   |      |     |     |     |     |     |
|                    | 31500  | 12.3   | 20.6   | 25.5   | 30.3   | 32.1   | 32.5   | 30.7   | 25.7   | 12.5   |        |      |     |     |     |     |     |
|                    | 40000  |        | 2.0    | 6.7    | 13.1   | 14.6   | 14.7   | 12.2   | 4.0    |        |        |      |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| OVERALL CALCULATED |        | 69.0   | 73.5   | 76.3   | 79.5   | 81.5   | 82.4   | 82.1   | 81.8   | 76.5   | 71.2   | 66.8 |     |     |     |     |     |
| PNCS               |        | 62.0   | 67.1   | 69.1   | 63.3   | 65.3   | 66.2   | 65.8   | 65.8   | 60.5   | 63.9   | 75.5 |     |     |     |     |     |

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 OF POOR QUALITY



ANGLES FROM INLET IN DEGREES (ARC RADIANS)

| PRCC.              | (1.2) | (1.10) | (1.30) | (1.53) | (1.7) | (1.90) | (2.06) | (2.24) | (2.42) | (2.63) | (2.78) | (0)  | (10) | (10) | (10) | (10) | (10) |
|--------------------|-------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
| SIDELINE 200. FT.  | 50    | 63     | 80     | 100    | 125   | 150    | 175    | 200    | 225    | 250    | 275    | 300  | 325  | 350  | 375  | 400  | 425  |
| VEHICLE 1 40.00 M) | 100   | 53.5   | 55.6   | 59.2   | 62.3  | 59.6   | 57.0   | 51.7   | 46.4   | 45.3   | 47.0   | 46.2 |      |      |      |      |      |
| VEHICLE R-55       | 125   | 43.9   | 45.0   | 49.0   | 46.7  | 51.3   | 47.2   | 46.9   | 47.3   | 47.2   | 46.0   | 46.7 |      |      |      |      |      |
| CONFIG S           | 150   | 41.9   | 44.2   | 45.0   | 46.2  | 47.0   | 46.0   | 47.1   | 47.7   | 48.3   | 48.0   | 44.7 |      |      |      |      |      |
| LCC SCHEMATIC      | 200   | 42.5   | 43.0   | 45.4   | 46.3  | 48.1   | 49.7   | 50.2   | 56.6   | 50.2   | 50.1   | 46.5 |      |      |      |      |      |
| DATE 11/10/74      | 250   | 44.1   | 40.2   | 40.3   | 49.7  | 50.6   | 50.2   | 51.1   | 50.0   | 49.6   | 48.1   | 44.7 |      |      |      |      |      |
| RLN 23/0           | 315   | 45.3   | 47.7   | 49.3   | 50.2  | 51.0   | 51.1   | 50.0   | 50.0   | 49.7   | 48.5   | 43.7 |      |      |      |      |      |
| TAPE               | 400   | 44.2   | 47.1   | 49.7   | 49.6  | 50.9   | 51.0   | 50.0   | 51.0   | 50.1   | 47.6   | 42.2 |      |      |      |      |      |
| BAR 29.7 HG        | 500   | 43.1   | 45.7   | 46.0   | 48.5  | 53.1   | 50.7   | 50.0   | 50.2   | 49.2   | 47.1   | 43.7 |      |      |      |      |      |
| (80420. N/M2)      | 630   | 44.5   | 47.4   | 49.5   | 51.7  | 52.7   | 53.3   | 53.5   | 53.0   | 52.5   | 49.2   | 41.9 |      |      |      |      |      |
| TAMP 50. DEG F     | 800   | 47.1   | 46.7   | 51.1   | 52.1  | 53.1   | 53.7   | 54.3   | 54.6   | 52.0   | 49.2   | 41.5 |      |      |      |      |      |
| (200. DEG F)       | 1000  | 44.0   | 47.9   | 50.2   | 50.0  | 52.5   | 53.6   | 54.7   | 55.0   | 53.7   | 49.2   | 39.0 |      |      |      |      |      |
| THET 51. DEG F     | 1250  | 47.0   | 53.0   | 54.0   | 57.1  | 58.4   | 61.2   | 61.3   | 61.3   | 60.5   | 56.4   | 44.0 |      |      |      |      |      |
| (204. DEG F)       | 1500  | 47.9   | 54.1   | 55.0   | 58.5  | 60.0   | 61.0   | 62.1   | 61.6   | 60.5   | 53.0   | 42.0 |      |      |      |      |      |
| WACT 7.00 C/M3     | 2000  | 49.2   | 53.1   | 55.5   | 59.3  | 61.3   | 61.9   | 61.0   | 60.3   | 58.4   | 51.0   | 41.2 |      |      |      |      |      |
| (1.20700 K2/P3)    | 2500  | 50.5   | 55.0   | 57.0   | 60.9  | 63.2   | 65.4   | 66.0   | 64.1   | 63.4   | 58.4   | 44.7 |      |      |      |      |      |
| NFA 5010. RPH      | 3150  | 49.9   | 54.7   | 57.7   | 60.9  | 64.7   | 65.0   | 66.4   | 63.7   | 63.5   | 53.0   | 44.1 |      |      |      |      |      |
| (500. RAC/SEC)     | 4000  | 46.3   | 53.7   | 53.7   | 62.0  | 64.7   | 60.2   | 65.0   | 64.0   | 62.0   | 54.2   | 42.0 |      |      |      |      |      |
| NFR 5024. RPH      | 5070  | 45.5   | 51.1   | 55.2   | 59.2  | 61.7   | 62.0   | 63.4   | 62.7   | 60.6   | 51.4   | 39.2 |      |      |      |      |      |
| (500. RAC/SEC)     | 6300  | 44.4   | 49.6   | 53.6   | 57.6  | 59.0   | 61.3   | 61.1   | 61.5   | 58.7   | 48.7   | 36.7 |      |      |      |      |      |
| NFB 8023. RPH      | 8000  | 41.5   | 46.9   | 51.3   | 55.2  | 57.1   | 58.3   | 59.3   | 58.3   | 55.6   | 45.9   | 32.0 |      |      |      |      |      |
| (024. RAC/SEC)     | 10000 | 38.2   | 43.0   | 48.0   | 52.3  | 54.0   | 56.0   | 56.0   | 55.9   | 53.1   | 42.9   | 27.7 |      |      |      |      |      |
| NO. OF BLADES 15   | 12500 | 35.5   | 36.6   | 44.1   | 49.1  | 51.6   | 53.1   | 53.4   | 52.6   | 48.4   | 36.6   | 19.3 |      |      |      |      |      |
| FAN TIP SPEED      | 16000 | 27.7   | 32.1   | 37.0   | 41.4  | 44.0   | 46.5   | 46.1   | 45.2   | 40.1   | 26.1   | 7.2  |      |      |      |      |      |
| 401. FT/SEC        | 20000 | 22.0   | 25.0   | 31.3   | 36.0  | 38.9   | 39.6   | 40.1   | 38.6   | 32.0   | 16.3   |      |      |      |      |      |      |
|                    | 25000 | 15.5   | 19.5   | 23.2   | 28.0  | 30.6   | 30.0   | 30.0   | 27.7   | 19.7   | 1.0    |      |      |      |      |      |      |
|                    | 31500 | 1.0    | 7.4    | 12.1   | 17.1  | 19.4   | 20.0   | 18.2   | 14.0   | 3.0    |        |      |      |      |      |      |      |
|                    | 40000 |        |        |        | 0.1   | 1.0    | 2.0    |        |        |        |        |      |      |      |      |      |      |
|                    | 50000 |        |        |        |       |        |        |        |        |        |        |      |      |      |      |      |      |
|                    | 63000 |        |        |        |       |        |        |        |        |        |        |      |      |      |      |      |      |
|                    | 80000 |        |        |        |       |        |        |        |        |        |        |      |      |      |      |      |      |
| OVERALL CALCULATED | 60.3  | 64.2   | 67.3   | 70.1   | 72.3  | 73.4   | 73.0   | 72.5   | 71.0   | 64.0   | 50.1   |      |      |      |      |      |      |
| PA20               | 72.6  | 77.1   | 80.6   | 83.6   | 86.1  | 87.3   | 87.7   | 86.3   | 84.0   | 77.0   | 67.2   |      |      |      |      |      |      |

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|                           | 58.    | 68.    | 78.    | 88.    | 98.    | 108.   | 118.   | 128.   | 138.   | 148.   | 159.  | 0.     | 0.     | 0.     | 0.     | 0.     | 0.    | PHL   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-------|-------|
| FREQ. (1.02)              | (1.19) | (1.36) | (1.53) | (1.71) | (1.90) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (3.0) | (3.14) | (3.29) | (3.44) | (3.59) | (3.74) | (3.9) |       |
| RADIAL 17. FT.            | 50     |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |       |       |
| ( 5. M)                   | 63     |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |       |       |
| VEHICLE R-55              | 100    | 69.5   | 72.8   | 76.2   | 78.1   | 78.0   | 77.3   | 73.4   | 68.7   | 71.4   | 74.2  | 77.1   |        |        |        |        |       | 109.6 |
| CONFIG 12                 | 125    | 67.5   | 66.6   | 69.4   | 68.1   | 69.0   | 68.5   | 69.2   | 70.9   | 72.2   | 74.4  | 76.3   |        |        |        |        |       | 104.5 |
| L3C SCHEMECTADY           | 160    | 64.5   | 66.1   | 65.2   | 66.9   | 67.5   | 67.8   | 69.7   | 71.4   | 72.9   | 75.2  | 76.8   |        |        |        |        |       | 104.2 |
| DATE 11/13/74             | 200    | 64.5   | 65.8   | 68.4   | 67.6   | 69.5   | 71.0   | 72.4   | 74.4   | 75.2   | 77.2  | 78.6   |        |        |        |        |       | 106.3 |
| RUN 16/1                  | 250    | 66.3   | 68.3   | 69.2   | 70.4   | 71.3   | 72.0   | 73.2   | 74.2   | 74.7   | 76.2  | 76.8   |        |        |        |        |       | 106.5 |
| TAPE                      | 315    | 67.5   | 69.6   | 70.2   | 71.9   | 72.0   | 73.0   | 73.4   | 73.9   | 74.7   | 76.4  | 76.3   |        |        |        |        |       | 106.9 |
| BAR 29.4 MG               | 430    | 66.8   | 68.8   | 69.4   | 70.9   | 71.8   | 73.0   | 73.4   | 74.9   | 74.9   | 75.4  | 74.6   |        |        |        |        |       | 106.6 |
| (99351. N/M2)             | 500    | 65.8   | 67.8   | 68.2   | 70.4   | 71.6   | 72.8   | 73.4   | 74.2   | 73.9   | 74.4  | 73.1   |        |        |        |        |       | 106.0 |
| TAMB 53. DEG F            | 630    | 67.4   | 70.1   | 70.9   | 73.4   | 74.6   | 75.3   | 75.9   | 76.9   | 77.4   | 77.2  | 75.1   |        |        |        |        |       | 106.7 |
| (285. DEG K)              | 800    | 70.6   | 71.8   | 73.2   | 74.2   | 75.6   | 76.1   | 77.7   | 78.9   | 78.7   | 78.2  | 75.3   |        |        |        |        |       | 110.1 |
| T-ET 47. DEG F            | 1000   | 69.6   | 71.1   | 73.2   | 74.2   | 74.8   | 76.3   | 77.9   | 79.9   | 79.7   | 77.4  | 73.3   |        |        |        |        |       | 110.3 |
| (281. DEG K)              | 1250   | 73.1   | 76.1   | 78.2   | 78.7   | 81.1   | 83.1   | 83.9   | 85.2   | 85.9   | 84.2  | 78.3   |        |        |        |        |       | 116.1 |
| MACT 6.68 GM/M3           | 1500   | 73.1   | 76.9   | 78.7   | 79.8   | 81.9   | 83.4   | 84.4   | 85.9   | 86.4   | 83.2  | 77.1   |        |        |        |        |       | 116.6 |
| (.00668 KG/M3)            | 2000   | 73.9   | 77.4   | 77.4   | 80.0   | 83.6   | 85.4   | 85.6   | 85.1   | 85.2   | 80.5  | 76.6   |        |        |        |        |       | 116.8 |
| MFA 5592. RPM             | 2500   | 74.6   | 78.7   | 79.4   | 83.3   | 85.2   | 88.1   | 88.1   | 89.1   | 89.4   | 84.0  | 79.8   |        |        |        |        |       | 119.9 |
| ( 585. RAD/SEC)           | 3150   | 73.6   | 77.9   | 79.4   | 83.1   | 86.4   | 88.4   | 88.6   | 89.8   | 91.2   | 84.2  | 80.5   |        |        |        |        |       | 120.6 |
| NFK 5825. RPM             | 4000   | 71.8   | 76.9   | 79.0   | 82.3   | 85.1   | 87.3   | 87.8   | 90.0   | 89.4   | 83.9  | 79.2   |        |        |        |        |       | 119.8 |
| ( 539. RAD/SEC)           | 5000   | 70.2   | 74.8   | 77.0   | 81.3   | 84.1   | 86.3   | 86.7   | 88.7   | 87.8   | 81.7  | 77.9   |        |        |        |        |       | 118.5 |
| NFC 8823. RPM             | 6300   | 69.0   | 72.9   | 75.2   | 80.1   | 83.2   | 85.0   | 85.7   | 87.7   | 86.5   | 81.1  | 78.5   |        |        |        |        |       | 117.5 |
| ( 924. RAD/SEC)           | 8000   | 67.2   | 71.3   | 74.2   | 78.5   | 81.4   | 83.1   | 84.5   | 86.7   | 86.7   | 80.0  | 78.1   |        |        |        |        |       | 116.5 |
| NO. OF BLADES 15          | 10000  | 66.4   | 69.6   | 72.5   | 77.9   | 80.7   | 82.5   | 84.5   | 85.7   | 85.5   | 79.8  | 80.8   |        |        |        |        |       | 116.0 |
| FAN TIP SPEED 488. FT/SEC | 12500  | 65.9   | 68.5   | 71.0   | 77.5   | 80.6   | 81.4   | 83.1   | 86.0   | 83.7   | 78.5  | 82.0   |        |        |        |        |       | 115.6 |
|                           | 16000  | 63.1   | 66.0   | 68.4   | 73.9   | 76.8   | 78.8   | 80.9   | 83.1   | 81.8   | 75.8  | 82.5   |        |        |        |        |       | 113.5 |
|                           | 20000  | 63.4   | 65.1   | 68.1   | 73.0   | 75.9   | 78.2   | 79.6   | 83.0   | 82.2   | 74.9  | 84.3   |        |        |        |        |       | 113.8 |
|                           | 25000  | 64.1   | 65.7   | 67.0   | 71.5   | 74.2   | 76.1   | 78.1   | 80.1   | 79.6   | 73.5  | 82.1   |        |        |        |        |       | 112.2 |
|                           | 31500  | 63.7   | 64.3   | 66.5   | 70.4   | 73.5   | 75.6   | 77.1   | 79.6   | 79.5   | 73.1  | 78.6   |        |        |        |        |       | 112.2 |
|                           | 40000  | 64.8   | 64.4   | 66.3   | 68.3   | 71.1   | 73.6   | 75.7   | 77.1   | 77.1   | 71.5  | 75.4   |        |        |        |        |       | 111.5 |
|                           | 50000  | 67.9   | 65.3   | 68.3   | 67.4   | 70.0   | 71.2   | 73.7   | 73.6   | 73.5   | 69.6  | 73.4   |        |        |        |        |       | 111.2 |
|                           | 63000  | 70.0   | 66.9   | 70.0   | 67.8   | 70.6   | 70.1   | 71.7   | 69.8   | 70.3   | 68.5  | 69.8   |        |        |        |        |       | 112.7 |
|                           | 80000  | 73.3   | 70.5   | 72.6   | 70.4   | 73.3   | 73.0   | 73.4   | 72.2   | 71.2   | 71.9  | 71.0   |        |        |        |        |       | 119.2 |
| OVERALL MEASURED          |        |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |       |       |
| OVERALL CALCULATED        |        | 84.4   | 87.3   | 89.0   | 92.0   | 94.6   | 96.5   | 97.1   | 98.7   | 98.7   | 94.8  | 93.3   |        |        |        |        |       | 128.8 |
| PNDB                      |        | 96.7   | 100.4  | 102.0  | 105.2  | 108.0  | 109.8  | 110.3  | 111.7  | 112.2  | 107.1 | 104.0  |        |        |        |        |       |       |

| FREQ.              | 58     | 68     | 78     | 88     | 98     | 108    | 118    | 128    | 138    | 148    | 158    | 0    | 0   | 0   | 0   | 0   | 0   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|
|                    | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0)  | (0) | (0) | (0) | (0) | (0) |
| SIDE LINE 200 FT.  | 50     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| ( 60.96 M)         | 60     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| VEHICLE R-55       | 100    | 46.5   | 50.6   | 54.4   | 56.6   | 56.4   | 55.2   | 50.7   | 44.9   | 46.1   | 48.5   | 45.7 |     |     |     |     |     |
| CONFIC 12          | 125    | 44     | 44.3   | 47.6   | 46.5   | 47.3   | 46.4   | 46.4   | 47.1   | 46.7   | 46.6   | 44.7 |     |     |     |     |     |
| LCC SCHEMECTAD     | 200    | 41.3   | 43.7   | 43.3   | 45.2   | 45.7   | 45.6   | 46.8   | 47.4   | 47.3   | 47.2   | 44.7 |     |     |     |     |     |
| DATE 11/13/74      | 250    | 41.2   | 43.1   | 44.4   | 45.5   | 47.6   | 46.7   | 49.5   | 50.3   | 49.5   | 49.1   | 46.5 |     |     |     |     |     |
| RUN 16/1           | 315    | 42.9   | 45.7   | 47.1   | 45.5   | 49.3   | 49.7   | 50.1   | 50.0   | 48.8   | 47.9   | 44.5 |     |     |     |     |     |
| TAPE               | 400    | 44.0   | 46.9   | 48.0   | 49.9   | 50.0   | 50.6   | 50.3   | 49.6   | 48.7   | 48.0   | 43.7 |     |     |     |     |     |
| BAR 29.4 HG        | 500    | 43.2   | 46.1   | 47.2   | 48.8   | 49.7   | 50.5   | 50.2   | 50.5   | 48.8   | 48.8   | 41.7 |     |     |     |     |     |
| (9935.1 M/M2)      | 630    | 42.1   | 45.0   | 47.4   | 49.3   | 49.3   | 50.2   | 50.1   | 49.7   | 47.7   | 45.6   | 39.9 |     |     |     |     |     |
| TAMB 53 DEG F      | 800    | 43.5   | 47.1   | 48.5   | 50.9   | 52.2   | 52.6   | 52.5   | 52.3   | 51.0   | 48.2   | 41.6 |     |     |     |     |     |
| (285. DEG K)       | 1000   | 46.6   | 48.7   | 50.6   | 51.8   | 51.1   | 53.2   | 54.1   | 54.1   | 52.1   | 48.9   | 41.5 |     |     |     |     |     |
| T-ET 47. DEG F     | 1250   | 44.3   | 47.9   | 50.3   | 51.7   | 52.2   | 53.3   | 54.2   | 55.0   | 52.9   | 47.9   | 39.2 |     |     |     |     |     |
| (261. DEG K)       | 1600   | 49.9   | 52.7   | 55.3   | 56.1   | 58.4   | 60.0   | 60.0   | 60.0   | 59.0   | 54.4   | 43.8 |     |     |     |     |     |
| HACT 6.66 CM/M3    | 2000   | 48.7   | 53.3   | 55.7   | 57.0   | 59.2   | 60.1   | 60.3   | 60.6   | 59.2   | 53.1   | 42.0 |     |     |     |     |     |
| (100068 KG/M3)     | 2500   | 49.2   | 53.7   | 54.2   | 57.1   | 60.6   | 61.9   | 61.4   | 59.6   | 57.7   | 50.0   | 41.0 |     |     |     |     |     |
| NFA 5592. RPM      | 3150   | 49.7   | 54.7   | 56.0   | 60.2   | 61.9   | 64.5   | 63.6   | 63.3   | 61.7   | 53.2   | 43.7 |     |     |     |     |     |
| ( 585. RAD/SEC)    | 4000   | 46.4   | 53.7   | 55.7   | 59.7   | 62.9   | 64.4   | 63.8   | 63.7   | 63.0   | 52.9   | 43.6 |     |     |     |     |     |
| MFK 525. RPM       | 5000   | 46.1   | 52.2   | 55.0   | 58.5   | 61.2   | 62.9   | 62.5   | 63.3   | 60.5   | 51.7   | 41.0 |     |     |     |     |     |
| ( 549. RAD/SEC)    | 6300   | 44.2   | 49.9   | 52.7   | 57.2   | 59.9   | 61.6   | 61.1   | 61.7   | 58.6   | 48.9   | 39.0 |     |     |     |     |     |
| MFS 8823. RPM      | 8000   | 42.2   | 47.2   | 50.1   | 55.4   | 58.3   | 59.6   | 59.3   | 59.8   | 58.2   | 47.8   | 37.5 |     |     |     |     |     |
| ( 924. RAD/SEC)    | 10000  | 39.0   | 44.4   | 48.1   | 52.8   | 55.4   | 56.6   | 56.9   | 57.4   | 54.7   | 43.7   | 33.8 |     |     |     |     |     |
| NO. OF BLADES 15   | 12500  | 34.5   | 41.1   | 44.8   | 50.6   | 53.2   | 54.4   | 55.2   | 54.4   | 51.2   | 40.5   | 32.0 |     |     |     |     |     |
| FAN TIP SPEED      | 16000  | 33.3   | 37.6   | 41.1   | 47.9   | 50.9   | 50.9   | 51.3   | 51.9   | 46.0   | 34.7   | 26.6 |     |     |     |     |     |
| 483. FT/SEC        | 20000  | 26.3   | 31.2   | 34.8   | 40.7   | 43.4   | 44.5   | 45.0   | 44.3   | 38.4   | 24.7   | 16.3 |     |     |     |     |     |
|                    | 25000  | 20.9   | 25.1   | 29.6   | 35.1   | 37.7   | 38.9   | 38.2   | 38.0   | 31.5   | 14.2   | 3.9  |     |     |     |     |     |
|                    | 31500  | 13.6   | 18.4   | 21.6   | 26.9   | 29.2   | 29.7   | 28.9   | 26.3   | 18.3   |        |      |     |     |     |     |     |
|                    | 40000  | 1.2    | 6.3    | 10.9   | 15.8   | 18.5   | 18.9   | 18.6   | 12.9   | 2.7    |        |      |     |     |     |     |     |
|                    | 50000  |        |        |        | 1.2    | 1.1    |        |        |        |        |        |      |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| OVERALL CALCULATED |        | 58.9   | 63.1   | 65.2   | 68.2   | 70.5   | 72.0   | 71.6   | 71.6   | 69.7   | 62.9   | 55.8 |     |     |     |     |     |
| PHCB               |        | 71.4   | 76.1   | 78.2   | 81.7   | 84.4   | 85.8   | 85.4   | 85.3   | 83.9   | 75.7   | 66.9 |     |     |     |     |     |



ANGLES FROM INLET IN DEGREES (AND RADIANS)

|  | 50.   | 54.  | 70.  | 78.  | 90.  | 100. | 110. | 120. | 130. | 140. | 150. | 0.   | 0. | 0. | 0. | 0. | 0. |
|--|-------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|
| FREQ. (1.02)(1.17)(1.36)(1.53)(1.71)(1.90)(2.06)(2.24)(2.42)(2.60)(2.78)(3.00)(3.18)(3.36)(3.54)(3.72)(3.90)(4.08) |       |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |
| SIDELINE 200. FT.  | 63    |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |
| 1 60.96 M)   | 89    |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |
| VEHICLE R-55   | 100   | 46.0 | 50.3 | 48.4 | 47.8 | 50.6 | 51.0 | 50.7 | 49.1 | 48.5 | 49.8 | 49.4 |    |    |    |    |    |
| CONFIC 12  | 125   | 44.6 | 48.3 | 50.1 | 49.7 | 50.1 | 49.9 | 49.0 | 51.1 | 50.2 | 49.6 | 48.5 |    |    |    |    |    |
| LSC SCHEMECTADy  | 160   | 44.3 | 46.9 | 47.5 | 48.7 | 49.5 | 49.3 | 50.3 | 51.2 | 51.6 | 51.5 | 48.7 |    |    |    |    |    |
| DATE 11/13/74  | 200   | 44.5 | 46.3 | 47.7 | 48.3 | 51.1 | 52.7 | 52.7 | 53.8 | 52.7 | 52.8 | 50.0 |    |    |    |    |    |
| RUN 10/2   | 250   | 46.9 | 49.0 | 50.6 | 52.5 | 53.1 | 53.2 | 53.6 | 53.7 | 52.3 | 51.4 | 48.2 |    |    |    |    |    |
| TAPE   | 315   | 47.8 | 50.7 | 51.5 | 53.2 | 53.5 | 53.8 | 54.0 | 53.6 | 52.7 | 51.7 | 47.7 |    |    |    |    |    |
| BAR 29.4 HG  | 400   | 46.2 | 48.8 | 50.2 | 51.8 | 52.9 | 53.0 | 53.2 | 53.3 | 51.8 | 49.8 | 45.7 |    |    |    |    |    |
| 199351. V/M2)  | 500   | 45.1 | 47.5 | 48.3 | 51.0 | 52.6 | 52.7 | 53.1 | 52.7 | 50.9 | 48.9 | 44.2 |    |    |    |    |    |
| TAMS 53. DEG F   | 630   | 46.5 | 49.9 | 51.7 | 53.7 | 55.0 | 55.3 | 55.2 | 55.3 | 53.8 | 50.7 | 44.4 |    |    |    |    |    |
| (285. DEG K)   | 800   | 48.4 | 50.7 | 52.1 | 54.3 | 55.1 | 55.5 | 56.3 | 56.1 | 54.1 | 50.2 | 44.0 |    |    |    |    |    |
| T-ET 47. DEG F   | 1000  | 47.0 | 51.1 | 53.0 | 53.7 | 55.0 | 58.1 | 57.7 | 57.7 | 55.2 | 49.2 | 42.2 |    |    |    |    |    |
| (281. DEG K)   | 1250  | 49.1 | 52.5 | 54.6 | 55.1 | 57.7 | 59.2 | 60.3 | 60.0 | 58.0 | 51.2 | 43.8 |    |    |    |    |    |
| MACT 6.65 CM/MS)   | 1600  | 57.4 | 61.8 | 67.2 | 64.2 | 66.8 | 69.3 | 67.8 | 67.8 | 67.5 | 57.1 | 50.3 |    |    |    |    |    |
| (1.30668 CM/MS)  | 2000  | 51.0 | 56.7 | 57.2 | 60.8 | 63.1 | 64.4 | 64.4 | 63.1 | 59.7 | 52.5 | 43.2 |    |    |    |    |    |
| NFA 6387. RPM  | 2500  | 51.0 | 56.5 | 57.5 | 62.7 | 63.9 | 65.0 | 65.1 | 63.6 | 62.2 | 52.8 | 43.4 |    |    |    |    |    |
| ( 659. RAD/SEC)  | 3150  | 53.6 | 58.7 | 61.2 | 66.2 | 67.7 | 67.9 | 68.0 | 67.9 | 65.7 | 57.6 | 47.3 |    |    |    |    |    |
| NFK 6428. RPM  | 4000  | 49.3 | 54.9 | 58.2 | 62.0 | 64.7 | 66.2 | 66.2 | 65.8 | 63.0 | 53.2 | 42.8 |    |    |    |    |    |
| ( 673. RAD/SEC)  | 5000  | 48.7 | 55.1 | 58.2 | 62.2 | 64.7 | 66.4 | 66.1 | 66.7 | 62.1 | 52.2 | 41.5 |    |    |    |    |    |
| NFD 6823. RPM  | 6300  | 46.2 | 52.2 | 54.9 | 59.6 | 62.1 | 63.3 | 63.1 | 63.6 | 59.5 | 49.0 | 38.7 |    |    |    |    |    |
| ( 924. RAD/SEC)  | 8000  | 43.0 | 48.9 | 52.4 | 57.0 | 59.7 | 60.6 | 61.4 | 61.4 | 56.7 | 46.2 | 35.1 |    |    |    |    |    |
| NO. OF BLADES 15   | 10000 | 40.5 | 46.1 | 50.3 | 55.3 | 57.7 | 58.4 | 58.9 | 58.9 | 54.2 | 43.5 | 30.8 |    |    |    |    |    |
| FAN TIP SPEED  | 12500 | 36.1 | 42.4 | 46.6 | 52.4 | 54.1 | 54.9 | 55.8 | 55.1 | 49.0 | 38.9 | 28.4 |    |    |    |    |    |
| 550. FT/SEC  | 16000 | 29.5 | 35.2 | 39.5 | 44.7 | 47.4 | 48.5 | 49.0 | 48.0 | 40.9 | 27.2 | 18.1 |    |    |    |    |    |
|  | 20000 | 22.9 | 29.1 | 34.6 | 39.6 | 41.7 | 42.7 | 43.2 | 42.2 | 33.7 | 17.7 | 2.4  |    |    |    |    |    |
|  | 25000 | 14.6 | 20.6 | 25.9 | 31.1 | 33.7 | 34.2 | 34.2 | 31.0 | 21.3 |      |      |    |    |    |    |    |
|  | 31500 | 2.2  | 9.8  | 15.2 | 20.5 | 22.8 | 23.1 | 21.1 | 17.4 | 5.5  |      |      |    |    |    |    |    |
|  | 40000 |      |      |      | 3.7  | 5.5  | 5.4  | 3.1  |      |      |      |      |    |    |    |    |    |
|  | 50000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |
|  | 63000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |
|  | 80000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |
| OVERALL CALCULATOR   |       | 62.7 | 67.2 | 70.5 | 72.3 | 74.4 | 75.8 | 75.8 | 75.3 | 73.0 | 65.3 | 59.4 |    |    |    |    |    |
| PND8   |       | 75.6 | 80.4 | 83.3 | 86.7 | 88.4 | 89.2 | 89.3 | 89.1 | 86.7 | 79.8 | 70.2 |    |    |    |    |    |

ORIGINAL FILED  
OF POOR QUALITY



|                    | FREQ. | 58.    | 65.    | 74.    | 84.    | 94.    | 104.   | 114.   | 124.   | 139.   | 149.   | 159.   | 0.  | 0. | 0. | 0. | 0. | PHL    |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|----|----|----|----|--------|
|                    |       | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0. | 0. | 0. | 0. | 0. | (10. ) |
|                    |       |        |        |        |        |        |        |        |        |        |        |        | (0. | 0. | 0. | 0. | 0. | (10. ) |
|                    | 50    |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |        |
|                    | 63    |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |        |
| RACIAL 17. FT.     | 80    |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |        |
| ( 5. M)            | 100   | 70.2   | 70.8   | 71.9   | 73.3   | 73.5   | 74.0   | 74.7   | 75.1   | 76.4   | 81.2   | 84.8   |     |    |    |    |    | 110.2  |
| VEHICLE R55        | 125   | 73.0   | 78.1   | 78.2   | 77.1   | 77.8   | 78.0   | 78.9   | 78.1   | 78.9   | 81.2   | 84.6   |     |    |    |    |    | 112.6  |
| CONFIG 12          | 160   | 72.0   | 73.1   | 72.9   | 74.1   | 75.5   | 75.5   | 77.7   | 78.9   | 80.9   | 83.2   | 84.8   |     |    |    |    |    | 112.0  |
| LCC SCHENECTADY    | 200   | 72.0   | 71.8   | 72.2   | 74.3   | 77.0   | 78.2   | 79.4   | 81.1   | 82.2   | 84.4   | 86.1   |     |    |    |    |    | 113.4  |
| DATE 11/13/74      | 250   | 74.0   | 74.8   | 76.4   | 78.6   | 79.0   | 79.2   | 80.9   | 81.4   | 82.2   | 84.2   | 85.3   |     |    |    |    |    | 114.2  |
| RUN 16/3           | 315   | 75.0   | 75.8   | 76.7   | 79.1   | 79.3   | 80.0   | 80.7   | 81.4   | 82.2   | 83.7   | 84.3   |     |    |    |    |    | 114.2  |
| TAPE               | 400   | 74.5   | 75.3   | 75.7   | 77.4   | 78.3   | 79.2   | 79.9   | 81.1   | 81.7   | 82.4   | 82.3   |     |    |    |    |    | 113.3  |
| SAR 29.4 HG        | 500   | 72.8   | 73.8   | 74.4   | 77.4   | 78.0   | 79.0   | 80.2   | 80.9   | 80.7   | 81.7   | 81.3   |     |    |    |    |    | 112.7  |
| (99351. N/M2)      | 630   | 74.8   | 75.6   | 77.2   | 79.4   | 80.3   | 81.3   | 81.9   | 83.1   | 83.2   | 83.0   | 81.6   |     |    |    |    |    | 114.7  |
| TAMB 53. DEG F     | 800   | 78.8   | 78.3   | 77.9   | 81.1   | 81.8   | 82.5   | 83.4   | 84.9   | 83.7   | 82.4   | 81.1   |     |    |    |    |    | 115.9  |
| (285. DEG K)       | 1000  | 75.3   | 76.1   | 76.4   | 79.1   | 80.1   | 82.0   | 83.9   | 85.6   | 84.7   | 81.4   | 79.8   |     |    |    |    |    | 115.7  |
| TMET 47. DEG F     | 1250  | 75.4   | 78.1   | 79.2   | 80.2   | 82.1   | 84.3   | 86.4   | 87.4   | 86.4   | 82.0   | 80.1   |     |    |    |    |    | 117.5  |
| (281. DEG K)       | 1600  | 78.6   | 82.4   | 83.4   | 85.2   | 87.4   | 88.8   | 89.9   | 90.9   | 90.4   | 84.2   | 81.3   |     |    |    |    |    | 121.4  |
| MACT 6.68 GM/M3    | 2000  | 82.1   | 85.4   | 85.4   | 88.5   | 91.4   | 93.1   | 93.1   | 93.6   | 92.2   | 87.0   | 83.6   |     |    |    |    |    | 124.6  |
| (.36668 KG/M3)     | 2500  | 80.1   | 83.9   | 84.9   | 89.5   | 90.7   | 91.6   | 92.4   | 93.3   | 91.2   | 85.8   | 82.1   |     |    |    |    |    | 123.9  |
| NFA 7184. RPM      | 3150  | 79.8   | 83.4   | 85.9   | 89.8   | 92.4   | 93.6   | 93.6   | 94.8   | 93.7   | 87.7   | 83.5   |     |    |    |    |    | 125.4  |
| ( 752. RAD/SEC)    | 4000  | 79.8   | 84.1   | 87.0   | 91.0   | 93.4   | 95.3   | 96.2   | 96.7   | 94.6   | 88.4   | 85.0   |     |    |    |    |    | 127.1  |
| NFK 7226. RPM      | 5000  | 78.5   | 83.6   | 86.0   | 90.0   | 93.1   | 94.2   | 94.7   | 95.6   | 92.1   | 86.7   | 82.9   |     |    |    |    |    | 125.9  |
| ( 757. RAD/SEC)    | 6300  | 77.0   | 81.6   | 84.4   | 88.3   | 90.9   | 92.4   | 93.2   | 95.0   | 91.3   | 85.9   | 82.0   |     |    |    |    |    | 124.6  |
| NFD 8823. RPM      | 8000  | 76.1   | 80.0   | 82.9   | 87.6   | 89.6   | 91.3   | 92.2   | 93.9   | 90.4   | 85.3   | 81.6   |     |    |    |    |    | 123.7  |
| ( 924. RAD/SEC)    | 10000 | 75.7   | 79.3   | 82.7   | 87.1   | 89.4   | 90.7   | 92.0   | 93.4   | 90.3   | 85.1   | 82.3   |     |    |    |    |    | 123.4  |
| NO. OF BLADES 15   | 12500 | 74.6   | 77.0   | 81.3   | 86.4   | 88.8   | 89.6   | 91.1   | 92.8   | 89.5   | 84.0   | 82.8   |     |    |    |    |    | 122.7  |
| FAN TIP SPEED      | 16000 | 72.6   | 74.5   | 78.2   | 82.1   | 85.3   | 87.0   | 88.4   | 91.1   | 86.0   | 81.8   | 84.2   |     |    |    |    |    | 120.6  |
| 627. FT/SEC        | 20000 | 72.8   | 74.1   | 77.6   | 81.5   | 84.6   | 86.2   | 88.9   | 90.7   | 87.0   | 81.1   | 85.8   |     |    |    |    |    | 120.9  |
|                    | 25000 | 73.9   | 72.9   | 76.0   | 81.0   | 83.5   | 85.0   | 87.5   | 89.1   | 86.1   | 80.5   | 86.4   |     |    |    |    |    | 120.4  |
|                    | 31500 | 73.6   | 72.6   | 75.3   | 80.1   | 82.7   | 84.5   | 86.1   | 87.8   | 84.8   | 79.1   | 86.1   |     |    |    |    |    | 120.3  |
|                    | 40000 | 74.0   | 70.2   | 73.6   | 78.3   | 80.9   | 82.8   | 84.7   | 85.6   | 82.8   | 77.5   | 86.1   |     |    |    |    |    | 120.0  |
|                    | 50000 | 77.4   | 68.6   | 72.0   | 76.8   | 79.0   | 80.9   | 83.2   | 82.3   | 79.8   | 75.3   | 86.4   |     |    |    |    |    | 120.2  |
|                    | 63000 | 79.7   | 67.6   | 70.5   | 76.5   | 79.1   | 79.1   | 81.2   | 79.0   | 74.8   | 72.0   | 85.0   |     |    |    |    |    | 121.4  |
|                    | 80000 | 83.3   | 72.7   | 72.8   | 80.1   | 81.0   | 82.0   | 82.7   | 82.1   | 74.7   | 73.7   | 78.2   |     |    |    |    |    | 127.1  |
| OVERALL MEASURED   |       |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |        |
| OVERALL CALCULATED |       | 92.0   | 93.8   | 95.8   | 99.5   | 101.9  | 103.2  | 104.1  | 105.3  | 102.8  | 98.5   | 98.6   |     |    |    |    |    | 138.5  |
| PNDB               |       | 103.4  | 106.9  | 109.1  | 112.7  | 114.9  | 116.4  | 117.3  | 118.1  | 116.2  | 111.5  | 108.9  |     |    |    |    |    |        |

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. (AV)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    |       | 58.    | 68.    | 78.    | 88.    | 98.    | 108.   | 118.   | 128.   | 138.   | 149.   | 159.   | 0.  | 0.   | 0.   | 0.   | 0.    |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|------|------|------|-------|
|                    | FREQ. | (1.32) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0. | 110. | 110. | 110. | 110.) |
|                    | 50    |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |       |
|                    | 63    |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |       |
| SIDE LINE 200. FT. | 80    |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |       |
| ( 63.96 M)         | 100   | 47.2   | 48.6   | 50.2   | 51.8   | 51.9   | 52.0   | 52.0   | 51.4   | 51.1   | 53.5   | 53.4   |     |      |      |      |       |
| VEHICLE R-55       | 125   | 49.9   | 55.8   | 56.3   | 55.4   | 56.1   | 55.9   | 54.1   | 54.3   | 53.5   | 53.4   | 53.0   |     |      |      |      |       |
| CONFIG 12          | 160   | 48.8   | 50.7   | 51.0   | 52.4   | 53.7   | 53.3   | 54.8   | 54.9   | 55.3   | 55.2   | 52.7   |     |      |      |      |       |
| LCC SCHENECTADY    | 200   | 48.7   | 49.3   | 50.2   | 52.5   | 55.1   | 56.0   | 56.5   | 57.0   | 56.5   | 56.3   | 54.0   |     |      |      |      |       |
| DATE 11/13/74      | 250   | 50.6   | 52.2   | 54.3   | 56.7   | 57.0   | 56.9   | 57.9   | 57.2   | 56.3   | 55.9   | 53.0   |     |      |      |      |       |
| RUN 10/3           | 315   | 51.5   | 54.2   | 54.5   | 57.1   | 57.2   | 57.5   | 57.5   | 57.1   | 56.2   | 55.2   | 51.7   |     |      |      |      |       |
| TAPE               | 400   | 50.9   | 52.6   | 53.4   | 55.3   | 56.1   | 56.7   | 56.7   | 56.7   | 55.8   | 53.8   | 49.5   |     |      |      |      |       |
| BAR 29.4 HG        | 500   | 49.1   | 51.0   | 52.1   | 55.2   | 55.8   | 56.4   | 56.8   | 56.4   | 54.4   | 52.9   | 48.2   |     |      |      |      |       |
| (99351. N/M2)      | 630   | 51.0   | 52.6   | 54.7   | 57.1   | 59.0   | 58.5   | 58.4   | 58.5   | 56.8   | 53.9   | 48.1   |     |      |      |      |       |
| TAMB 53. DEG F     | 800   | 54.9   | 53.2   | 55.4   | 58.8   | 59.4   | 59.7   | 59.8   | 60.1   | 57.1   | 53.2   | 47.3   |     |      |      |      |       |
| (285. DEG K)       | 1000  | 51.2   | 52.9   | 55.7   | 58.8   | 57.5   | 59.1   | 60.2   | 60.7   | 57.9   | 51.9   | 45.7   |     |      |      |      |       |
| TACT 47. DEG F     | 1250  | 51.1   | 54.7   | 56.3   | 57.6   | 59.4   | 61.2   | 62.5   | 62.2   | 59.5   | 52.2   | 45.5   |     |      |      |      |       |
| (281. DEG K)       | 1600  | 54.1   | 58.8   | 60.4   | 62.4   | 64.5   | 65.5   | 65.8   | 65.5   | 63.2   | 54.1   | 48.3   |     |      |      |      |       |
| MACT 6.83 CM/3     | 2000  | 57.4   | 61.2   | 62.2   | 65.5   | 68.3   | 69.6   | 68.8   | 68.0   | 64.7   | 56.5   | 48.0   |     |      |      |      |       |
| (.00683 CM/3)      | 2500  | 55.2   | 60.0   | 61.5   | 66.4   | 67.7   | 67.9   | 67.9   | 67.5   | 63.4   | 54.9   | 45.9   |     |      |      |      |       |
| NFA 7184. RPM      | 3150  | 54.6   | 59.2   | 62.2   | 66.4   | 68.9   | 69.6   | 68.8   | 68.6   | 65.5   | 56.4   | 46.8   |     |      |      |      |       |
| ( 752. RAD/SEC)    | 4000  | 54.0   | 59.4   | 63.0   | 67.2   | 69.4   | 70.9   | 71.0   | 70.0   | 65.8   | 58.2   | 46.8   |     |      |      |      |       |
| NFX 7225. RPM      | 5000  | 52.5   | 58.6   | 61.7   | 65.9   | 68.9   | 69.8   | 69.1   | 68.6   | 62.8   | 53.9   | 44.0   |     |      |      |      |       |
| ( 757. RAD/SEC)    | 6300  | 50.2   | 55.9   | 59.4   | 63.6   | 66.1   | 67.1   | 66.8   | 67.0   | 61.0   | 51.7   | 41.0   |     |      |      |      |       |
| NFD 8623. RPM      | 8000  | 48.0   | 53.2   | 56.8   | 61.7   | 63.7   | 64.8   | 64.6   | 64.6   | 58.4   | 49.0   | 37.3   |     |      |      |      |       |
| ( 924. RAD/SEC)    | 10000 | 45.7   | 50.8   | 55.0   | 59.8   | 61.9   | 62.6   | 62.7   | 62.1   | 55.9   | 45.7   | 33.5   |     |      |      |      |       |
| NO. OF BLADES 15   | 12500 | 42.1   | 46.1   | 51.4   | 54.9   | 59.1   | 59.1   | 59.2   | 58.6   | 50.7   | 40.2   | 27.4   |     |      |      |      |       |
| FAN TIP SPEED      | 16000 | 35.8   | 39.7   | 44.5   | 48.9   | 51.9   | 52.8   | 52.4   | 52.2   | 42.8   | 30.7   | 18.1   |     |      |      |      |       |
| 627. FT/SEC        | 20000 | 30.3   | 34.1   | 39.1   | 43.6   | 46.5   | 46.9   | 47.5   | 45.7   | 36.2   | 20.4   | 5.4    |     |      |      |      |       |
|                    | 25000 | 23.3   | 25.6   | 30.6   | 36.3   | 38.5   | 38.6   | 38.4   | 35.2   | 24.8   | 6.1    |        |     |      |      |      |       |
|                    | 31500 | 11.2   | 14.5   | 19.7   | 25.5   | 27.7   | 27.6   | 25.5   | 21.1   | 8.0    |        |        |     |      |      |      |       |
|                    | 40000 |        |        | 2.9    | 8.9    | 11.0   | 10.3   | 7.3    |        |        |        |        |     |      |      |      |       |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |       |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |       |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |       |
| OVERALL CALCULATED |       | 65.5   | 69.4   | 71.6   | 73.2   | 77.4   | 78.3   | 78.1   | 77.7   | 73.8   | 67.4   | 62.6   |     |      |      |      |       |
| PNCR               |       | 78.1   | 82.5   | 85.2   | 89.0   | 91.1   | 92.2   | 92.1   | 91.6   | 87.7   | 79.9   | 71.8   |     |      |      |      |       |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 11 DAY 22 HR. 11.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 59.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.    | 0.  | 0.  | 0.  | 0.   | PWL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|------|-------|
| FREQ.              | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.   | (0. | (0. | (0. | (0.) |       |
|                    | 50     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |      |       |
|                    | 63     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |      |       |
| RADIAL 17. FT.     | 80     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |      |       |
| ( 5. M)            | 100    | 71.5   | 73.8   | 74.9   | 75.1   | 75.8   | 76.2   | 76.9   | 85.4   | 80.1   | 84.3   | 88.8  |     |     |     |      | 114.5 |
| VEHICLE R-55       | 125    | 78.5   | 77.8   | 76.1   | 77.6   | 79.3   | 81.0   | 81.2   | 86.1   | 83.1   | 85.1   | 88.8  |     |     |     |      | 116.2 |
| CONFIG 12          | 160    | 74.5   | 76.5   | 76.1   | 77.3   | 78.5   | 78.5   | 80.4   | 87.1   | 84.1   | 85.8   | 88.5  |     |     |     |      | 118.2 |
| LCC SCHENECTADY    | 200    | 74.5   | 75.5   | 75.6   | 77.1   | 79.5   | 81.2   | 81.9   | 90.1   | 85.1   | 87.5   | 90.3  |     |     |     |      | 118.1 |
| DATE 11/13/74      | 250    | 78.0   | 79.3   | 80.4   | 81.8   | 83.5   | 84.0   | 85.7   | 89.6   | 86.3   | 87.8   | 89.8  |     |     |     |      | 119.1 |
| RUN 16/4           | 315    | 78.2   | 79.8   | 80.1   | 81.6   | 82.5   | 83.0   | 83.9   | 88.9   | 85.3   | 86.5   | 88.0  |     |     |     |      | 118.2 |
| TAPE               | 400    | 77.3   | 78.3   | 78.9   | 79.6   | 81.0   | 81.7   | 82.7   | 89.9   | 84.6   | 85.6   | 86.8  |     |     |     |      | 117.7 |
| BAR 20.4 MC        | 500    | 75.8   | 77.5   | 77.4   | 79.1   | 80.8   | 81.5   | 83.4   | 89.6   | 83.8   | 84.8   | 85.0  |     |     |     |      | 117.2 |
| (99351. M/M2)      | 630    | 77.1   | 79.0   | 79.6   | 81.9   | 83.1   | 84.0   | 84.9   | 88.6   | 85.8   | 89.3   | 85.3  |     |     |     |      | 118.1 |
| TAMB 53. DEG F     | 800    | 80.3   | 81.3   | 82.1   | 83.1   | 84.3   | 84.5   | 86.2   | 95.4   | 86.6   | 85.8   | 85.8  |     |     |     |      | 121.5 |
| (285. DEG K)       | 1000   | 77.6   | 79.8   | 81.1   | 82.1   | 83.3   | 84.5   | 86.1   | 94.9   | 86.8   | 84.1   | 83.3  |     |     |     |      | 120.9 |
| TWET 47. DEG F     | 1250   | 78.4   | 80.8   | 81.6   | 82.9   | 84.8   | 86.8   | 88.4   | 98.1   | 88.1   | 84.1   | 83.3  |     |     |     |      | 123.5 |
| (281. DEG K)       | 1600   | 78.9   | 82.8   | 83.6   | 84.7   | 87.1   | 88.8   | 90.1   | 93.1   | 89.1   | 84.4   | 82.3  |     |     |     |      | 121.9 |
| HACT 6-6A C4/43    | 2000   | 87.6   | 89.6   | 89.9   | 93.2   | 95.9   | 97.8   | 99.1   | 100.4  | 95.4   | 91.4   | 88.5  |     |     |     |      | 129.8 |
| (1.0058 KG/M3)     | 2500   | 83.6   | 87.6   | 87.4   | 91.5   | 93.9   | 94.3   | 95.4   | 98.8   | 92.6   | 88.6   | 85.8  |     |     |     |      | 127.3 |
| NFA 7578. RPM      | 3150   | 82.1   | 86.3   | 86.8   | 91.5   | 94.7   | 94.6   | 95.1   | 100.3  | 94.1   | 89.1   | 86.0  |     |     |     |      | 128.1 |
| ( 835. RAD/SEC)    | 4000   | 83.5   | 88.3   | 90.3   | 93.5   | 96.1   | 98.5   | 98.0   | 99.5   | 96.3   | 91.8   | 88.7  |     |     |     |      | 129.7 |
| NFK 8025. RPM      | 5000   | 81.3   | 86.5   | 88.7   | 92.5   | 94.6   | 96.2   | 96.7   | 100.9  | 93.0   | 88.5   | 85.9  |     |     |     |      | 128.8 |
| ( 840. RAD/SEC)    | 6300   | 80.5   | 86.3   | 88.4   | 92.6   | 94.9   | 96.2   | 96.7   | 102.0  | 93.2   | 88.5   | 87.2  |     |     |     |      | 129.4 |
| NFD 8823. RPM      | 8000   | 79.4   | 84.0   | 86.7   | 90.5   | 92.9   | 94.3   | 95.7   | 98.7   | 91.8   | 87.4   | 86.5  |     |     |     |      | 127.3 |
| ( 924. RAD/SEC)    | 10000  | 78.2   | 83.8   | 86.7   | 90.6   | 92.4   | 93.9   | 95.2   | 98.9   | 91.9   | 87.4   | 86.7  |     |     |     |      | 127.3 |
| NO. OF BLADES 15   | 12500  | 78.1   | 82.0   | 85.8   | 89.2   | 91.1   | 94.1   | 95.1   | 98.3   | 90.9   | 86.6   | 81.7  |     |     |     |      | 127.0 |
| FAN TIP SPEED      | 16000  | 74.6   | 79.2   | 82.4   | 86.1   | 88.8   | 90.2   | 92.2   | 94.8   | 88.2   | 83.4   | 80.7  |     |     |     |      | 124.2 |
| 696. FT/SEC        | 20000  | 74.3   | 78.8   | 82.6   | 85.5   | 88.1   | 90.9   | 92.6   | 96.4   | 89.4   | 84.0   | 82.0  |     |     |     |      | 125.5 |
|                    | 25000  | 74.1   | 78.4   | 81.3   | 84.7   | 87.5   | 90.0   | 92.5   | 94.8   | 89.6   | 84.1   | 88.1  |     |     |     |      | 125.1 |
|                    | 31500  | 74.4   | 77.7   | 80.0   | 83.8   | 86.5   | 88.7   | 90.3   | 92.8   | 88.2   | 82.7   | 82.3  |     |     |     |      | 124.3 |
|                    | 40000  | 74.3   | 76.4   | 78.8   | 81.5   | 84.6   | 86.3   | 88.7   | 89.3   | 85.7   | 80.9   | 83.1  |     |     |     |      | 123.3 |
|                    | 50000  | 76.6   | 75.5   | 78.2   | 79.3   | 81.5   | 83.9   | 86.7   | 86.8   | 83.5   | 78.7   | 82.1  |     |     |     |      | 122.9 |
|                    | 63000  | 79.2   | 75.8   | 79.5   | 78.0   | 79.8   | 80.3   | 83.4   | 83.2   | 80.4   | 78.2   | 83.8  |     |     |     |      | 127.4 |
|                    | 80000  | 83.3   | 79.9   | 82.5   | 80.8   | 81.5   | 82.2   | 83.9   | 89.1   | 81.6   | 81.3   | 80.9  |     |     |     |      | 128.3 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |       |     |     |     |      |       |
| OVERALL CALCULATED |        | 94.5   | 97.6   | 99.1   | 102.4  | 104.7  | 106.3  | 107.2  | 111.0  | 104.7  | 101.3  | 102.4 |     |     |     |      | 140.3 |
| PNCB               |        | 107.1  | 110.7  | 112.2  | 115.3  | 117.6  | 119.4  | 119.6  | 123.2  | 117.0  | 114.4  | 112.8 |     |     |     |      |       |

MODEL SOUND PRESSURE LEVELS (59. DFG, F, 70 PERCENT DEL, NUM, EAV)  
 PPRC, DATE - MONTH 11 DAY 22 YR. 11.3  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 59.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0. | 0. | 0. | 0. | 0. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|
| FREQ.              | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | 0.   | 0. | 0. | 0. | 0. | 0. |
| SIDELINE 233. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
| ( 60.96 M)         | 63     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
| VEHICLE R-55       | 80     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
| CONFIG 12          | 100    | 48.5   | 51.5   | 53.1   | 53.5   | 54.1   | 54.2   | 54.2   | 61.6   | 54.8   | 56.7   | 57.4 |    |    |    |    |    |
| LQC SCHEMATIC      | 125    | 55.4   | 55.5   | 54.3   | 55.9   | 58.1   | 58.9   | 58.4   | 62.3   | 57.6   | 57.3   | 57.2 |    |    |    |    |    |
| DATE 11/13/74      | 160    | 51.3   | 54.1   | 54.2   | 55.6   | 56.7   | 56.3   | 57.6   | 63.2   | 58.5   | 57.8   | 56.7 |    |    |    |    |    |
| RUN 15/4           | 200    | 51.2   | 53.0   | 53.6   | 55.3   | 57.6   | 59.0   | 59.0   | 66.0   | 59.4   | 59.4   | 58.2 |    |    |    |    |    |
| TAPE               | 250    | 54.6   | 56.7   | 58.3   | 59.9   | 61.5   | 61.6   | 62.6   | 65.4   | 60.5   | 59.5   | 57.4 |    |    |    |    |    |
| BAR 29.4 MG        | 315    | 54.7   | 57.1   | 58.0   | 59.6   | 61.5   | 61.5   | 62.8   | 64.6   | 59.4   | 58.1   | 55.4 |    |    |    |    |    |
| (9935) N/M2        | 400    | 53.7   | 55.5   | 56.6   | 57.5   | 58.9   | 59.2   | 59.4   | 65.5   | 58.5   | 56.9   | 53.9 |    |    |    |    |    |
| TAMB 53. DEC F     | 500    | 52.1   | 54.7   | 55.0   | 57.0   | 58.8   | 58.9   | 60.1   | 65.1   | 57.6   | 56.0   | 51.9 |    |    |    |    |    |
| (205) DEC K1       | 630    | 53.2   | 56.1   | 57.2   | 59.6   | 60.7   | 61.3   | 61.4   | 64.0   | 59.5   | 56.3   | 51.9 |    |    |    |    |    |
| TNET 47. DEC F     | 800    | 56.4   | 58.2   | 59.6   | 60.8   | 61.9   | 61.7   | 62.6   | 70.6   | 60.0   | 56.6   | 51.8 |    |    |    |    |    |
| (20) DEC K1        | 1000   | 53.5   | 56.5   | 58.4   | 59.8   | 60.7   | 61.6   | 62.4   | 69.9   | 60.1   | 54.8   | 49.1 |    |    |    |    |    |
| MACT 6.68 CM/M3    | 1250   | 54.1   | 57.4   | 58.8   | 60.3   | 62.1   | 63.7   | 64.5   | 73.0   | 61.1   | 54.3   | 48.7 |    |    |    |    |    |
| (100000) KG/M3     | 1600   | 54.4   | 59.3   | 60.6   | 61.9   | 64.3   | 65.5   | 66.1   | 67.8   | 61.9   | 54.2   | 47.2 |    |    |    |    |    |
| NFA 7678. RPM      | 2000   | 62.9   | 65.8   | 66.7   | 70.3   | 72.8   | 74.3   | 74.8   | 74.8   | 67.9   | 60.9   | 52.9 |    |    |    |    |    |
| ( 835. RAD/SEC)    | 2500   | 56.7   | 63.7   | 64.0   | 68.4   | 70.7   | 70.7   | 70.9   | 73.0   | 64.8   | 57.8   | 49.6 |    |    |    |    |    |
| NPK 8025. RPM      | 3150   | 56.9   | 62.1   | 64.9   | 68.1   | 71.2   | 70.6   | 70.3   | 74.1   | 65.9   | 57.7   | 49.8 |    |    |    |    |    |
| ( 840. RAD/SEC)    | 4000   | 57.8   | 63.6   | 66.2   | 69.7   | 72.2   | 74.1   | 72.7   | 72.8   | 67.4   | 59.6   | 50.5 |    |    |    |    |    |
| NPD 8823. RPM      | 5000   | 55.0   | 61.6   | 64.4   | 68.4   | 70.4   | 71.6   | 71.1   | 73.9   | 63.7   | 55.8   | 46.9 |    |    |    |    |    |
| ( 924. RAD/SEC)    | 6300   | 53.7   | 60.6   | 63.4   | 67.8   | 70.1   | 70.8   | 70.3   | 74.0   | 62.9   | 54.3   | 46.2 |    |    |    |    |    |
| NO. OF BLADES 15   | 8000   | 51.3   | 57.1   | 60.5   | 65.0   | 66.9   | 67.8   | 68.1   | 69.3   | 59.8   | 51.1   | 44.3 |    |    |    |    |    |
| FAN TIP SPEED      | 10000  | 48.2   | 55.3   | 58.0   | 63.3   | 64.9   | 65.8   | 65.9   | 67.6   | 57.6   | 48.1   | 40.8 |    |    |    |    |    |
| 606. FT/SEC        | 12500  | 45.6   | 51.1   | 55.1   | 59.6   | 61.4   | 63.6   | 63.2   | 64.1   | 53.1   | 42.8   | 36.4 |    |    |    |    |    |
|                    | 16000  | 37.8   | 44.4   | 48.7   | 52.9   | 55.4   | 56.0   | 56.2   | 56.0   | 44.8   | 32.3   | 24.5 |    |    |    |    |    |
|                    | 20000  | 31.8   | 38.8   | 44.1   | 47.6   | 50.0   | 51.7   | 51.2   | 51.4   | 38.6   | 23.3   | 11.6 |    |    |    |    |    |
|                    | 25000  | 23.5   | 31.1   | 35.6   | 40.1   | 42.5   | 43.6   | 43.4   | 41.0   | 28.2   | 9.7    |      |    |    |    |    |    |
|                    | 31500  | 12.0   | 19.7   | 24.4   | 29.2   | 31.5   | 31.8   | 29.8   | 28.1   | 11.4   |        |      |    |    |    |    |    |
|                    | 40000  |        | 2.3    | 8.1    | 12.2   | 14.7   | 13.8   | 11.3   | 3.4    |        |        |      |    |    |    |    |    |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
| OVERALL CALCULATED |        | 68.8   | 72.8   | 74.6   | 78.0   | 80.2   | 81.2   | 81.1   | 83.7   | 75.8   | 70.3   | 66.7 |    |    |    |    |    |
| PNDB               |        | 82.0   | 86.2   | 88.3   | 91.6   | 93.9   | 95.1   | 94.5   | 97.0   | 89.2   | 82.8   | 75.7 |    |    |    |    |    |

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 OF POOR QUALITY



MODEL SOUND PRESSURE LEVELS (59.0 DFC, F. 70 PERCENT DEL. NUM. (AV))

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 58.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.  | 0.  | 0.  | 0.  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|
| FREQ.              | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.  | (0. | (0. | (0. | (0. |
| SIDE LINE 200. FT. | 50     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| ( 60.00 M)         | 63     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| VEHICLE R-55       | 100    | 48.5   | 51.3   | 53.1   | 53.0   | 54.9   | 55.0   | 55.2   | 54.1   | 55.0   | 56.9   | 57.1 |     |     |     |     |
| CONFIG 12          | 125    | 54.9   | 56.0   | 55.0   | 56.2   | 58.8   | 59.4   | 59.1   | 58.5   | 58.1   | 57.3   | 57.4 |     |     |     |     |
| LOC SCHENECTADY    | 160    | 52.0   | 54.4   | 54.5   | 53.4   | 57.0   | 56.8   | 58.1   | 58.4   | 58.5   | 58.3   | 56.7 |     |     |     |     |
| DATE 11/13/74      | 200    | 51.9   | 52.8   | 53.6   | 55.3   | 57.6   | 59.0   | 59.0   | 59.8   | 59.1   | 59.2   | 57.7 |     |     |     |     |
| RUN 16/5           | 250    | 54.6   | 56.4   | 58.3   | 59.9   | 60.8   | 61.6   | 62.6   | 61.4   | 60.3   | 59.0   | 57.2 |     |     |     |     |
| TAPE               | 315    | 54.5   | 57.1   | 57.7   | 58.9   | 60.2   | 60.5   | 60.8   | 60.6   | 59.4   | 58.1   | 55.4 |     |     |     |     |
| BAR 29.4 MG        | 400    | 53.7   | 55.5   | 56.4   | 58.0   | 58.9   | 59.2   | 59.7   | 59.7   | 58.5   | 56.7   | 53.2 |     |     |     |     |
| (99351. M/M2)      | 500    | 51.8   | 54.4   | 55.5   | 57.3   | 58.8   | 59.6   | 59.3   | 59.6   | 57.6   | 55.7   | 51.9 |     |     |     |     |
| TAMP 53. DEG F     | 630    | 53.0   | 56.1   | 57.2   | 59.6   | 60.7   | 61.3   | 61.4   | 61.5   | 59.2   | 56.5   | 51.0 |     |     |     |     |
| (285. DEG K)       | 800    | 55.9   | 58.4   | 59.6   | 60.5   | 61.4   | 61.9   | 62.3   | 62.3   | 60.0   | 56.3   | 51.5 |     |     |     |     |
| TNET 47. DEG F     | 1000   | 53.2   | 56.5   | 58.4   | 59.4   | 60.5   | 61.3   | 61.9   | 62.4   | 59.8   | 53.8   | 48.9 |     |     |     |     |
| ( 1281. DEG K)     | 1250   | 53.8   | 57.4   | 58.8   | 60.6   | 61.9   | 63.9   | 64.8   | 64.5   | 61.1   | 54.6   | 48.5 |     |     |     |     |
| MACT 6.68 CM/M3    | 1600   | 54.4   | 59.0   | 60.9   | 62.4   | 64.3   | 65.3   | 65.3   | 64.8   | 61.4   | 54.0   | 46.7 |     |     |     |     |
| ( 1.00665 KG/M3)   | 2000   | 62.9   | 66.3   | 67.7   | 70.8   | 73.3   | 74.8   | 75.6   | 73.3   | 68.6   | 61.1   | 52.2 |     |     |     |     |
| NFA 7980. RPM      | 2500   | 58.2   | 63.7   | 64.2   | 69.1   | 70.7   | 70.4   | 70.9   | 70.8   | 64.8   | 57.5   | 49.1 |     |     |     |     |
| ( 636. RAD/SEC)    | 3150   | 56.6   | 62.4   | 64.9   | 68.6   | 70.9   | 70.6   | 70.3   | 76.6   | 65.6   | 57.7   | 49.0 |     |     |     |     |
| NFK 6027. RPM      | 4000   | 56.8   | 63.6   | 66.4   | 70.2   | 71.7   | 74.1   | 73.8   | 72.3   | 67.2   | 59.1   | 50.2 |     |     |     |     |
| ( 840. RAD/SEC)    | 5000   | 55.0   | 61.6   | 64.6   | 68.9   | 70.9   | 72.1   | 71.4   | 70.6   | 63.7   | 55.6   | 46.2 |     |     |     |     |
| NFD 8823. RPM      | 6300   | 53.7   | 60.1   | 63.1   | 67.6   | 70.1   | 70.6   | 70.3   | 70.8   | 62.1   | 54.6   | 44.9 |     |     |     |     |
| ( 924. RAD/SEC)    | 8000   | 50.5   | 56.8   | 61.0   | 65.0   | 66.9   | 67.6   | 67.6   | 67.6   | 60.1   | 50.0   | 40.8 |     |     |     |     |
| NO. OF BLADES 15   | 10000  | 47.7   | 54.5   | 59.0   | 62.8   | 64.9   | 65.6   | 66.2   | 65.4   | 58.1   | 47.6   | 37.2 |     |     |     |     |
| FAN TIP SPEED      | 12500  | 45.3   | 50.8   | 55.1   | 59.6   | 61.9   | 63.4   | 63.2   | 62.4   | 53.1   | 42.5   | 32.1 |     |     |     |     |
| 697. FT/SEC        | 16000  | 37.8   | 43.9   | 48.5   | 52.8   | 55.2   | 55.8   | 56.2   | 54.5   | 44.8   | 32.8   | 20.5 |     |     |     |     |
|                    | 20000  | 32.1   | 38.8   | 43.6   | 47.8   | 50.2   | 51.4   | 51.0   | 48.7   | 38.4   | 23.3   | 4.4  |     |     |     |     |
|                    | 25000  | 23.8   | 31.1   | 35.6   | 40.6   | 42.5   | 43.4   | 43.4   | 39.5   | 27.7   | 9.2    |      |     |     |     |     |
|                    | 31500  | 11.2   | 19.4   | 24.4   | 29.5   | 31.0   | 31.8   | 29.8   | 24.9   | 11.2   |        |      |     |     |     |     |
|                    | 40000  |        | 1.8    | 6.1    | 12.4   | 14.0   | 14.1   | 11.3   | 3.1    |        |        |      |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| OVERALL CALCULATED |        | 68.6   | 72.9   | 74.9   | 78.3   | 80.3   | 81.3   | 81.3   | 80.6   | 75.6   | 76.2   | 66.4 |     |     |     |     |
| PND8               |        | 81.9   | 80.2   | 88.5   | 91.9   | 93.7   | 95.1   | 94.7   | 94.1   | 89.3   | 82.5   | 75.2 |     |     |     |     |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PPHC. DATE = MONTH 11 DAY 22 HR. 11.3  
 MODEL SOUND PRESSURE LEVELS (50. DEG. F., 70 PERCENT REL. HUM., EAV)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                    | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.    | 0.   | 0.   | 0.   | 0.   | 0.   | 0.    | 0.    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|------|------|------|-------|-------|
| FREQ.              | (1.02) | (1.19) | (1.38) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.61) | (2.78) | (0.   | 100. | 100. | 100. | 100. | 100. | 100.) |       |
| RADIAL 17. FT.     | 50     |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |       |
| ( 5. M)            | 63     |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |       |
| VEHICLE R-55       | 150    | 72.0   | 74.3   | 77.4   | 78.6   | 78.5   | 77.0   | 72.9   | 68.7   | 70.9   | 73.2   | 76.0  |      |      |      |      |      |       | 110.0 |
| CONFIG 12          | 125    | 66.3   | 66.6   | 69.7   | 67.9   | 69.3   | 68.0   | 68.4   | 70.9   | 72.2   | 73.9   | 75.8  |      |      |      |      |      |       | 164.2 |
| LOC SCHENECTADY    | 160    | 64.5   | 66.1   | 68.4   | 67.1   | 68.8   | 65.3   | 69.7   | 71.2   | 72.9   | 75.7   | 75.8  |      |      |      |      |      |       | 184.4 |
| DATE 11/13/74      | 200    | 64.3   | 66.1   | 66.7   | 67.6   | 70.0   | 71.3   | 72.4   | 74.4   | 75.2   | 77.2   | 78.3  |      |      |      |      |      |       | 188.4 |
| RUN 16/6           | 250    | 66.0   | 68.1   | 68.9   | 70.4   | 72.0   | 72.0   | 73.2   | 73.9   | 74.4   | 75.7   | 76.8  |      |      |      |      |      |       | 188.4 |
| TAPE               | 315    | 67.0   | 69.8   | 70.9   | 71.6   | 72.5   | 73.0   | 73.4   | 74.2   | 74.9   | 76.4   | 76.1  |      |      |      |      |      |       | 187.0 |
| BAR 29.4 HG        | 430    | 67.1   | 69.6   | 69.7   | 70.7   | 72.0   | 73.0   | 73.4   | 74.7   | 74.7   | 74.9   | 74.3  |      |      |      |      |      |       | 188.5 |
| (99351. M/M2)      | 530    | 65.8   | 67.8   | 68.4   | 70.4   | 72.6   | 72.6   | 73.4   | 74.2   | 73.4   | 74.4   | 73.1  |      |      |      |      |      |       | 168.0 |
| TAMP 53. DEG F     | 630    | 67.1   | 70.4   | 70.9   | 73.4   | 74.1   | 75.1   | 75.9   | 76.9   | 77.4   | 77.5   | 74.8  |      |      |      |      |      |       | 168.7 |
| (285. DEG K)       | 800    | 70.1   | 72.1   | 73.2   | 74.4   | 75.6   | 76.1   | 77.2   | 79.4   | 79.2   | 79.2   | 74.8  |      |      |      |      |      |       | 110.2 |
| T-ET 47. DEG F     | 1000   | 69.6   | 71.1   | 73.2   | 73.9   | 74.8   | 76.6   | 78.4   | 79.7   | 79.9   | 77.4   | 72.8  |      |      |      |      |      |       | 110.3 |
| (201. DEG K)       | 1250   | 73.1   | 76.1   | 78.2   | 78.7   | 80.6   | 81.8   | 83.9   | 85.2   | 86.2   | 84.2   | 78.3  |      |      |      |      |      |       | 116.0 |
| MACT 6.68 CM/MS    | 1600   | 73.4   | 77.4   | 78.9   | 79.8   | 81.9   | 83.4   | 84.4   | 86.4   | 86.4   | 83.7   | 77.1  |      |      |      |      |      |       | 116.7 |
| (100668 CM/MS)     | 2030   | 73.6   | 77.1   | 77.9   | 80.5   | 83.4   | 84.9   | 85.6   | 85.4   | 84.9   | 81.0   | 76.6  |      |      |      |      |      |       | 116.8 |
| NFA 5591. RPM      | 2500   | 74.9   | 79.2   | 79.6   | 83.3   | 86.2   | 88.1   | 88.4   | 89.1   | 89.9   | 83.0   | 79.3  |      |      |      |      |      |       | 125.1 |
| ( 585. RAD/SEC)    | 3150   | 74.6   | 78.4   | 79.9   | 83.3   | 85.7   | 87.9   | 88.6   | 89.6   | 91.2   | 85.0   | 80.3  |      |      |      |      |      |       | 120.5 |
| NFK 5624. RPM      | 4030   | 71.8   | 77.4   | 79.3   | 82.8   | 85.4   | 87.3   | 88.3   | 89.8   | 89.4   | 84.2   | 78.7  |      |      |      |      |      |       | 119.9 |
| ( 580. RAD/SEC)    | 5000   | 70.2   | 75.1   | 77.2   | 81.0   | 84.3   | 86.3   | 86.9   | 88.4   | 88.1   | 81.7   | 76.7  |      |      |      |      |      |       | 116.5 |
| MFD 6823. RPM      | 6300   | 69.3   | 73.1   | 75.4   | 79.9   | 83.0   | 85.0   | 84.2   | 87.7   | 87.0   | 80.9   | 76.0  |      |      |      |      |      |       | 117.6 |
| ( 924. RAD/SEC)    | 8000   | 67.7   | 71.0   | 73.9   | 78.9   | 81.4   | 82.6   | 84.7   | 86.2   | 84.7   | 79.8   | 74.3  |      |      |      |      |      |       | 116.4 |
| NO. OF BLADES 15   | 10000  | 66.2   | 69.8   | 72.5   | 77.9   | 80.4   | 82.7   | 84.7   | 86.2   | 85.8   | 79.3   | 74.3  |      |      |      |      |      |       | 118.1 |
| FAN TIP SPEED      | 12500  | 65.9   | 68.5   | 71.5   | 77.5   | 80.8   | 81.4   | 83.8   | 86.0   | 84.2   | 78.5   | 73.3  |      |      |      |      |      |       | 115.6 |
| 488. FT/SEC        | 16000  | 63.1   | 68.2   | 68.4   | 73.9   | 77.0   | 78.9   | 81.4   | 83.6   | 82.3   | 79.8   | 76.7  |      |      |      |      |      |       | 113.3 |
|                    | 20000  | 62.6   | 64.3   | 67.6   | 73.5   | 79.6   | 77.7   | 80.1   | 83.5   | 82.0   | 75.4   | 70.3  |      |      |      |      |      |       | 113.2 |
|                    | 25000  | 62.9   | 64.9   | 66.3   | 71.8   | 84.2   | 76.1   | 78.8   | 80.1   | 79.9   | 73.5   | 68.1  |      |      |      |      |      |       | 114.0 |
|                    | 31500  | 61.9   | 64.6   | 66.0   | 70.9   | 73.5   | 75.8   | 77.6   | 79.6   | 79.5   | 72.9   | 67.1  |      |      |      |      |      |       | 112.0 |
|                    | 40000  | 62.8   | 63.9   | 65.3   | 68.6   | 71.4   | 73.3   | 76.8   | 77.4   | 76.8   | 71.2   | 64.4  |      |      |      |      |      |       | 111.2 |
|                    | 50000  | 65.4   | 65.1   | 66.8   | 67.4   | 69.2   | 71.2   | 73.7   | 73.4   | 73.8   | 69.6   | 65.1  |      |      |      |      |      |       | 118.8 |
|                    | 63000  | 64.8   | 65.9   | 68.3   | 66.8   | 69.3   | 69.9   | 71.2   | 69.8   | 69.8   | 68.8   | 66.5  |      |      |      |      |      |       | 111.7 |
|                    | 80000  | 73.3   | 76.0   | 72.6   | 78.1   | 71.3   | 73.0   | 73.7   | 72.4   | 72.2   | 71.9   | 71.0  |      |      |      |      |      |       | 119.3 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |       |
| OVERALL CALCULATED |        | 84.5   | 87.5   | 89.3   | 92.1   | 95.0   | 96.3   | 97.4   | 98.7   | 98.8   | 94.1   | 90.2  |      |      |      |      |      |       | 129.8 |
| PN28               |        | 97.1   | 100.7  | 102.3  | 105.4  | 107.7  | 109.5  | 110.4  | 111.5  | 112.3  | 107.4  | 103.3 |      |      |      |      |      |       |       |

|                    | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0    | 0 | 0 | 0 | 0 | 0 |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|---|---|---|---|---|
| FREQ.              | (1.52) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | 0    | 0 | 0 | 0 | 0 | 0 |
| SIDE LINE 203. FT. | 50     |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
| (100.00 M)         | 80     |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
| VEHICLE R-SS       | 100    | 49.0   | 52.1   | 55.7   | 57.1   | 58.0   | 59.0   | 58.2   | 44.0   | 45.6   | 47.5   | 45.4 |   |   |   |   |   |
| CONFIG 12          | 125    | 43.1   | 44.3   | 47.8   | 48.2   | 47.8   | 49.9   | 45.7   | 47.1   | 46.7   | 46.1   | 44.2 |   |   |   |   |   |
| LCC SCHEMECTAD     | 150    | 41.3   | 43.7   | 44.5   | 45.4   | 47.3   | 46.1   | 46.6   | 47.2   | 47.3   | 47.7   | 44.0 |   |   |   |   |   |
| DATE 11/13/74      | 200    | 41.0   | 43.6   | 44.7   | 45.8   | 48.1   | 49.0   | 49.5   | 50.3   | 49.5   | 49.1   | 46.2 |   |   |   |   |   |
| RJA 10/6           | 250    | 42.6   | 45.5   | 46.8   | 48.5   | 50.1   | 49.7   | 50.1   | 49.7   | 48.6   | 47.4   | 44.5 |   |   |   |   |   |
| TAPE               | 315    | 44.3   | 47.2   | 48.7   | 49.7   | 50.5   | 50.6   | 50.3   | 49.9   | 49.0   | 48.0   | 43.5 |   |   |   |   |   |
| BAR 29.4 MG        | 400    | 43.4   | 45.8   | 47.4   | 48.6   | 49.9   | 50.5   | 50.2   | 50.3   | 48.6   | 46.3   | 41.5 |   |   |   |   |   |
| (10035) N/M21      | 500    | 42.1   | 45.0   | 46.1   | 48.3   | 50.3   | 49.9   | 50.1   | 49.7   | 47.2   | 45.0   | 39.9 |   |   |   |   |   |
| TAMP 53 DEG F      | 600    | 43.3   | 47.4   | 48.5   | 51.2   | 51.7   | 52.3   | 52.5   | 52.3   | 51.0   | 48.4   | 41.1 |   |   |   |   |   |
| TMET 47 DEG F      | 800    | 46.1   | 49.0   | 50.6   | 52.1   | 53.1   | 53.2   | 53.6   | 54.6   | 52.6   | 48.9   | 41.0 |   |   |   |   |   |
| (1289) DEG F       | 1000   | 44.5   | 47.9   | 50.5   | 51.4   | 52.2   | 53.0   | 54.7   | 54.7   | 53.2   | 47.9   | 38.7 |   |   |   |   |   |
| (1281) DEG F       | 1250   | 48.9   | 52.7   | 55.3   | 56.1   | 57.9   | 58.7   | 60.0   | 60.0   | 59.2   | 54.4   | 43.6 |   |   |   |   |   |
| MACT 6.00 24/M3    | 1500   | 49.9   | 53.8   | 55.9   | 57.0   | 59.0   | 60.1   | 60.3   | 61.1   | 59.2   | 53.6   | 42.0 |   |   |   |   |   |
| (100600) 40/M3     | 2000   | 48.9   | 53.4   | 54.7   | 57.6   | 60.3   | 61.4   | 61.4   | 59.8   | 57.4   | 50.5   | 41.0 |   |   |   |   |   |
| NFA 5591 RPM       | 2500   | 50.0   | 54.2   | 56.3   | 60.2   | 62.7   | 64.5   | 63.9   | 63.3   | 62.2   | 52.9   | 43.2 |   |   |   |   |   |
| (1585) RAD/SEC     | 3150   | 49.4   | 54.2   | 56.2   | 59.9   | 62.2   | 63.9   | 63.0   | 63.4   | 63.0   | 53.5   | 43.3 |   |   |   |   |   |
| NFK 5024 RPM       | 4000   | 46.1   | 52.7   | 55.2   | 59.0   | 61.5   | 62.9   | 63.0   | 63.1   | 60.5   | 52.5   | 40.5 |   |   |   |   |   |
| (1589) RAD/SEC     | 5000   | 44.2   | 50.1   | 52.9   | 57.0   | 60.2   | 61.6   | 61.4   | 61.4   | 58.8   | 48.9   | 37.7 |   |   |   |   |   |
| NFS 8023 RPM       | 6000   | 42.5   | 47.4   | 50.4   | 55.1   | 58.1   | 59.6   | 59.0   | 59.0   | 56.7   | 46.7   | 35.0 |   |   |   |   |   |
| (1924) RAD/SEC     | 8000   | 39.5   | 44.2   | 47.8   | 53.0   | 55.4   | 58.1   | 57.1   | 56.9   | 54.7   | 43.5   | 30.1 |   |   |   |   |   |
| NO. OF BLADES 15   | 10000  | 36.3   | 41.3   | 44.6   | 50.6   | 53.0   | 54.6   | 55.4   | 54.9   | 51.4   | 40.0   | 25.5 |   |   |   |   |   |
| FAN TIP SPEED      | 12500  | 33.3   | 37.6   | 41.6   | 47.9   | 51.1   | 50.9   | 52.0   | 51.9   | 46.5   | 34.7   | 17.9 |   |   |   |   |   |
| 400. FT/SEC        | 16000  | 26.3   | 31.4   | 34.8   | 40.7   | 43.7   | 44.3   | 45.5   | 44.8   | 38.9   | 24.7   | 4.8  |   |   |   |   |   |
|                    | 20000  | 20.1   | 24.4   | 29.1   | 35.6   | 37.5   | 38.4   | 38.7   | 38.5   | 31.2   | 14.7   |      |   |   |   |   |   |
|                    | 25000  | 12.3   | 17.6   | 20.9   | 27.1   | 30.2   | 29.7   | 29.4   | 28.3   | 18.5   |        |      |   |   |   |   |   |
|                    | 31500  |        | 6.5    | 10.4   | 16.3   | 18.5   | 18.9   | 17.1   | 12.9   | 2.7    |        |      |   |   |   |   |   |
|                    | 40000  |        |        |        |        | 1.5    | 0.9    |        |        |        |        |      |   |   |   |   |   |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
| OVERALL CALCULATED |        | 59.1   | 63.3   | 65.6   | 68.4   | 70.6   | 71.8   | 71.8   | 71.6   | 69.0   | 63.8   | 55.5 |   |   |   |   |   |
| PN20               |        | 71.8   | 76.4   | 78.6   | 81.9   | 84.1   | 85.5   | 85.8   | 85.2   | 83.8   | 78.0   | 66.3 |   |   |   |   |   |

ORIGINAL PAGE IS  
OF POOR QUALITY



|                    | 30'   | 40'  | 50'   | 60'   | 70'   | 80'   | 90'   | 100'  | 110'  | 120'  | 130'  | 140' | 150' | 160' | 170' | 180' | 190' | 200'  |
|--------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| RADIAL 17. FT.     | 50    |      |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |       |
| VEHICLE 1 S. M.    | 100   | 67.3 | 71.0  | 75.7  | 77.6  | 77.6  | 76.0  | 73.2  | 69.4  | 71.4  | 76.4  |      |      |      |      |      |      | 160.5 |
| CONC 13            | 100   | 65.9 | 69.1  | 71.4  | 69.1  | 69.3  | 69.1  | 65.2  | 71.2  | 71.2  | 73.9  |      |      |      |      |      |      | 163.5 |
| LTC SCHEMECTAY     | 200   | 64.8 | 66.5  | 66.4  | 68.1  | 75.3  | 71.3  | 72.7  | 74.4  | 75.2  | 76.9  |      |      |      |      |      |      | 165.0 |
| DATE 11/13/74      | 250   | 67.7 | 69.8  | 69.7  | 71.1  | 71.3  | 72.0  | 73.7  | 73.7  | 74.7  | 76.4  |      |      |      |      |      |      | 166.5 |
| RUN 15/4           | 315   | 67.9 | 70.3  | 70.4  | 71.5  | 72.3  | 72.5  | 73.8  | 74.4  | 74.7  | 76.4  |      |      |      |      |      |      | 169.0 |
| TAPE               | 400   | 66.8 | 70.8  | 69.4  | 70.4  | 71.3  | 72.3  | 73.2  | 74.4  | 74.5  | 75.2  |      |      |      |      |      |      | 169.1 |
| GAC 20.3 MC        | 500   | 65.6 | 67.1  | 67.2  | 68.9  | 71.1  | 71.0  | 73.7  | 74.4  | 74.7  | 74.9  |      |      |      |      |      |      | 170.5 |
| (100012. W/M2)     | 630   | 66.0 | 69.6  | 70.2  | 72.2  | 74.3  | 75.3  | 76.4  | 77.7  | 77.4  | 77.5  |      |      |      |      |      |      | 170.6 |
| TRYS 40. DEG F     | 800   | 70.4 | 71.8  | 72.0  | 73.9  | 75.3  | 76.0  | 78.2  | 80.2  | 79.7  | 78.7  |      |      |      |      |      |      | 170.8 |
| (203. DEG F)       | 1000  | 67.9 | 73.3  | 72.2  | 73.7  | 75.3  | 77.1  | 78.7  | 79.7  | 80.2  | 78.2  |      |      |      |      |      |      | 170.0 |
| TRCT 45. DEG F     | 1200  | 74.4 | 77.1  | 77.9  | 79.5  | 81.5  | 82.3  | 84.4  | 85.4  | 84.4  | 85.2  |      |      |      |      |      |      | 170.4 |
| (200. DEG F)       | 1400  | 72.4 | 76.4  | 77.9  | 80.2  | 81.5  | 83.1  | 84.6  | 86.2  | 86.2  | 85.7  |      |      |      |      |      |      | 170.2 |
| MACT 4.49 GM/M2    | 2000  | 72.6 | 75.1  | 77.4  | 81.3  | 81.4  | 84.8  | 85.9  | 85.4  | 84.7  | 81.2  |      |      |      |      |      |      | 170.5 |
| (1.00009 K2/M2)    | 2500  | 73.0 | 78.2  | 80.9  | 84.6  | 86.4  | 87.4  | 87.0  | 89.6  | 84.2  | 84.8  |      |      |      |      |      |      | 170.4 |
| MFA 5252. RPM      | 3150  | 73.1 | 77.7  | 80.4  | 84.7  | 85.7  | 87.1  | 88.8  | 89.3  | 90.7  | 84.5  |      |      |      |      |      |      | 170.2 |
| ( 501. RAD/SEC)    | 4000  | 71.8 | 77.1  | 80.0  | 83.6  | 85.9  | 87.3  | 89.5  | 91.6  | 90.1  | 84.0  |      |      |      |      |      |      | 170.0 |
| MFK 5000. RPM      | 5000  | 67.7 | 75.1  | 78.0  | 81.2  | 84.9  | 86.5  | 87.2  | 88.6  | 88.8  | 87.4  |      |      |      |      |      |      | 170.0 |
| ( 507. RAD/SEC)    | 6300  | 69.6 | 73.9  | 76.4  | 80.9  | 83.4  | 84.7  | 86.7  | 88.6  | 88.8  | 81.5  |      |      |      |      |      |      | 170.1 |
| MFC 8023. RPM      | 8000  | 65.3 | 72.7  | 75.2  | 79.1  | 81.0  | 83.1  | 85.2  | 86.4  | 87.4  | 88.0  |      |      |      |      |      |      | 170.5 |
| ( 024. RAD/SEC)    | 10000 | 66.4 | 70.0  | 73.9  | 76.4  | 80.4  | 82.7  | 84.5  | 86.4  | 87.4  | 89.3  |      |      |      |      |      |      | 170.0 |
| NO. OF BLADES 15   | 12500 | 65.1 | 69.5  | 73.6  | 76.9  | 79.9  | 81.1  | 84.0  | 86.3  | 87.7  | 79.7  |      |      |      |      |      |      | 170.2 |
| FAN TIP SPEED      | 16000 | 63.3 | 66.4  | 69.4  | 72.4  | 75.3  | 76.5  | 81.4  | 83.6  | 86.7  | 78.0  |      |      |      |      |      |      | 170.5 |
| 400. FT/SEC        | 20000 | 63.8 | 66.3  | 68.5  | 72.9  | 75.3  | 77.0  | 81.1  | 84.4  | 86.7  | 78.0  |      |      |      |      |      |      | 170.0 |
|                    | 25000 | 64.5 | 65.6  | 68.9  | 71.2  | 73.9  | 75.7  | 78.2  | 81.2  | 84.1  | 73.5  |      |      |      |      |      |      | 170.6 |
|                    | 31500 | 64.3 | 64.7  | 66.4  | 70.0  | 72.9  | 75.4  | 77.2  | 79.5  | 83.4  | 73.2  |      |      |      |      |      |      | 170.6 |
|                    | 40000 | 65.4 | 64.3  | 66.4  | 67.9  | 70.7  | 72.7  | 75.3  | 78.7  | 86.4  | 71.3  |      |      |      |      |      |      | 171.2 |
|                    | 50000 | 68.7 | 65.8  | 68.4  | 67.1  | 69.0  | 76.2  | 73.5  | 72.9  | 82.1  | 69.3  |      |      |      |      |      |      | 171.5 |
|                    | 63000 | 72.9 | 66.3  | 70.2  | 67.5  | 69.3  | 69.3  | 71.4  | 69.2  | 77.6  | 64.6  |      |      |      |      |      |      | 173.6 |
|                    | 80000 | 72.9 | 69.6  | 72.2  | 70.0  | 71.4  | 71.0  | 72.1  | 71.0  | 72.0  | 71.5  |      |      |      |      |      |      | 170.3 |
| OVERALL MEASURED   |       |      |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |       |
| OVERALL CALCULATED |       | 84.2 | 67.3  | 69.5  | 52.7  | 95.3  | 90.0  | 97.0  | 69.1  | 66.0  | 94.6  |      |      |      |      |      |      | 170.2 |
| PACK               |       | 96.3 | 100.5 | 102.7 | 106.1 | 109.3 | 109.2 | 111.9 | 112.2 | 112.3 | 107.3 |      |      |      |      |      |      |       |

MODEL STRESS RESPONSE LEVELS 150. MPa. Po 70 PERCENT OBL. NUM. 1471  
 2 PLATES 1" x 1" x 1" (1000 KARLS)

|                    | 50    | 60    | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 160   | 170   | 180   | 190   | 200   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PRE: 11.02         | 11.10 | 11.38 | 11.53 | 11.72 | 11.90 | 12.08 | 12.26 | 12.44 | 12.62 | 12.80 | 12.98 | 13.16 | 13.34 | 13.52 | 13.70 | 13.88 |
| SIDE LINE 200. FT. | 41.2  | 40.6  | 53.9  | 56.3  | 56.1  | 54.6  | 50.7  | 49.4  | 46.1  | 40.0  |       |       |       |       |       |       |
| VEHICLE R-SS       | 41.8  | 46.8  | 46.6  | 47.5  | 47.3  | 47.2  | 44.7  | 47.3  | 44.2  | 44.1  |       |       |       |       |       |       |
| CCMFC 13           | 41.1  | 43.3  | 47.5  | 46.5  | 45.8  | 46.1  | 44.5  | 47.2  | 47.3  | 44.0  |       |       |       |       |       |       |
| LCC SCHEMECTADY    | 41.5  | 44.3  | 44.4  | 46.3  | 47.1  | 47.3  | 45.2  | 50.3  | 40.4  | 44.9  |       |       |       |       |       |       |
| DATE 11/13/74      | 44.1  | 46.2  | 47.5  | 47.2  | 47.8  | 47.7  | 50.6  | 49.7  | 40.0  | 44.1  |       |       |       |       |       |       |
| NUM. 13/4          | 44.3  | 47.7  | 48.2  | 49.7  | 50.7  | 50.1  | 50.3  | 51.1  | 47.7  | 44.6  |       |       |       |       |       |       |
| TAPE               | 47.2  | 48.1  | 47.2  | 48.3  | 48.2  | 48.0  | 45.6  | 50.0  | 44.0  | 44.9  |       |       |       |       |       |       |
| BAR 20.3 MC        | 41.9  | 44.2  | 44.8  | 44.8  | 44.8  | 44.8  | 47.2  | 50.3  | 49.5  | 47.0  |       |       |       |       |       |       |
| 100012. 4/7/81     | 43.8  | 46.6  | 47.7  | 47.9  | 52.0  | 52.0  | 53.0  | 53.0  | 51.0  | 46.0  |       |       |       |       |       |       |
| TAMB 40. SEC F     | 46.4  | 48.5  | 50.4  | 51.6  | 52.9  | 54.6  | 54.6  | 55.4  | 53.1  | 49.4  |       |       |       |       |       |       |
| 443. SEC F1        | 43.7  | 47.1  | 49.5  | 51.2  | 52.7  | 54.1  | 54.6  | 54.7  | 53.4  | 47.7  |       |       |       |       |       |       |
| TACT 45. SEC F     | 51.1  | 53.7  | 55.1  | 56.9  | 57.7  | 59.2  | 60.5  | 61.3  | 59.0  | 55.0  |       |       |       |       |       |       |
| 1240. SEC F1       | 47.9  | 52.8  | 54.9  | 57.2  | 58.5  | 59.0  | 60.4  | 60.4  | 59.7  | 53.0  |       |       |       |       |       |       |
| NACT 6.60 24/43    | 47.9  | 51.4  | 54.2  | 56.3  | 61.3  | 61.1  | 61.4  | 61.4  | 61.4  | 57.2  |       |       |       |       |       |       |
| 1.00000 46/43      | 49.0  | 54.2  | 57.5  | 61.4  | 63.2  | 61.7  | 64.4  | 63.6  | 62.7  | 54.9  |       |       |       |       |       |       |
| NFA 5502. RPM      | 47.9  | 53.7  | 56.7  | 60.7  | 63.2  | 63.1  | 64.7  | 63.7  | 62.5  | 53.1  |       |       |       |       |       |       |
| 1 541. RAC/SEC     | 46.1  | 52.4  | 56.0  | 59.7  | 62.3  | 62.0  | 64.2  | 64.3  | 61.2  | 52.2  |       |       |       |       |       |       |
| NFA 5400. RPM      | 43.7  | 50.1  | 53.7  | 57.7  | 60.7  | 61.0  | 61.0  | 61.0  | 59.0  | 49.6  |       |       |       |       |       |       |
| 1 547. RAC/SEC     | 42.2  | 48.2  | 51.4  | 54.1  | 56.0  | 59.3  | 60.3  | 60.6  | 57.7  | 47.5  |       |       |       |       |       |       |
| NFA 4423. RPM      | 34.8  | 45.1  | 49.0  | 53.3  | 55.0  | 54.0  | 57.0  | 57.1  | 55.0  | 44.9  |       |       |       |       |       |       |
| 1 524. RAC/SEC     | 36.5  | 42.3  | 46.3  | 51.2  | 52.3  | 54.1  | 55.1  | 55.1  | 53.4  | 40.0  |       |       |       |       |       |       |
| NO. OF BLADES 15   | 33.6  | 38.6  | 43.1  | 47.4  | 50.1  | 50.0  | 52.2  | 52.1  | 46.4  | 34.5  |       |       |       |       |       |       |
| FAN TIP SPEED      | 24.5  | 31.6  | 36.0  | 40.6  | 43.6  | 44.2  | 45.4  | 45.4  | 42.8  | 29.2  |       |       |       |       |       |       |
| 445. FT/SEC        | 21.3  | 26.1  | 30.0  | 35.0  | 37.2  | 38.4  | 39.7  | 39.4  | 35.9  | 19.4  |       |       |       |       |       |       |
| 25000              | 14.0  | 18.3  | 21.5  | 26.5  | 28.9  | 29.3  | 29.1  | 28.4  | 23.0  |       |       |       |       |       |       |       |
| 31500              | 2.1   | 6.6   | 10.0  | 15.4  | 17.9  | 18.5  | 18.7  | 18.8  | 6.6   |       |       |       |       |       |       |       |
| 40000              |       |       |       |       | 6.6   | 6.2   |       |       |       |       |       |       |       |       |       |       |
| 50000              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 63000              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 80000              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| OVERALL CALCULATED | 58.5  | 63.3  | 65.7  | 69.0  | 71.0  | 71.5  | 72.2  | 71.9  | 70.2  | 61.5  |       |       |       |       |       |       |
| PA3E               | 70.0  | 76.1  | 78.0  | 82.8  | 84.7  | 85.0  | 85.0  | 85.7  | 84.0  | 70.1  |       |       |       |       |       |       |



| PARAMETER          | 5%     | 6%     | 7%     | 8%     | 10%    | 12%    | 14%    | 15%    | 17%    | 19%    | 20%    | 22%    | 24%    | 26%    | 28%    | 30%    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ.              | (1.02) | (1.04) | (1.06) | (1.08) | (1.11) | (1.14) | (1.17) | (1.20) | (1.24) | (1.27) | (1.31) | (1.35) | (1.39) | (1.43) | (1.47) | (1.51) |
| SIDE LINE 200. FT. |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE 60-95 MI   | 100    | 49.0   | 51.3   | 49.9   | 49.2   | 51.6   | 57.2   | 49.2   | 47.1   | 47.4   | 50.9   |        |        |        |        |        |
| CCM-FIC 13         | 125    | 44.4   | 48.3   | 47.5   | 47.7   | 50.3   | 49.6   | 49.2   | 50.1   | 50.2   | 50.6   |        |        |        |        |        |
| LCC SCHEMECTASY    | 200    | 44.7   | 46.6   | 47.4   | 48.3   | 51.9   | 52.7   | 52.5   | 53.6   | 53.8   | 54.1   |        |        |        |        |        |
| DATE 11/13/74      | 250    | 45.6   | 49.8   | 50.6   | 52.5   | 52.5   | 52.7   | 53.0   | 53.0   | 52.1   | 51.9   |        |        |        |        |        |
| RUN 15/5           | 315    | 48.0   | 50.7   | 51.7   | 52.7   | 54.0   | 53.8   | 53.3   | 53.5   | 52.7   | 51.7   |        |        |        |        |        |
| TAPE               | 400    | 46.7   | 48.8   | 50.2   | 51.7   | 52.4   | 53.4   | 52.7   | 53.3   | 51.8   | 49.9   |        |        |        |        |        |
| BAP 29.3 MG        | 500    | 44.6   | 47.2   | 47.8   | 50.2   | 51.3   | 52.0   | 53.1   | 52.6   | 50.0   | 49.4   |        |        |        |        |        |
| (19012. N/112)     | 630    | 48.0   | 48.9   | 50.2   | 53.2   | 54.7   | 55.3   | 55.7   | 54.7   | 50.0   | 50.9   |        |        |        |        |        |
| TAMB 49. DEG F     | 800    | 47.6   | 50.0   | 52.1   | 53.9   | 54.9   | 55.7   | 55.3   | 56.4   | 54.4   | 50.9   |        |        |        |        |        |
| (203. DEG K)       | 1000   | 46.7   | 49.6   | 52.0   | 53.7   | 55.0   | 56.0   | 57.7   | 57.5   | 55.7   | 49.9   |        |        |        |        |        |
| T-ET 45. DEG F     | 1250   | 48.1   | 51.2   | 53.6   | 55.6   | 57.9   | 59.2   | 61.0   | 60.3   | 56.0   | 51.9   |        |        |        |        |        |
| (240. DEG K)       | 1500   | 55.7   | 59.8   | 64.9   | 63.0   | 64.5   | 65.0   | 64.3   | 62.6   | 64.7   | 59.6   |        |        |        |        |        |
| VACT 6.69 CM/MS    | 2000   | 50.7   | 55.1   | 57.2   | 61.3   | 63.6   | 64.0   | 64.3   | 63.1   | 60.4   | 52.0   |        |        |        |        |        |
| (10000 KG/MS)      | 2500   | 53.2   | 55.0   | 58.3   | 62.9   | 64.7   | 65.2   | 65.1   | 65.1   | 63.4   | 53.9   |        |        |        |        |        |
| MFA 6345. RPM      | 3150   | 51.6   | 57.9   | 62.0   | 64.4   | 67.7   | 67.6   | 70.0   | 68.7   | 67.0   | 57.3   |        |        |        |        |        |
| (1004. RAD/SEC)    | 4000   | 48.6   | 55.7   | 59.9   | 63.0   | 65.5   | 65.2   | 67.0   | 66.0   | 63.0   | 53.2   |        |        |        |        |        |
| MFK 6407. RPM      | 5000   | 44.2   | 55.4   | 59.2   | 63.0   | 65.7   | 66.3   | 66.4   | 66.2   | 62.1   | 52.7   |        |        |        |        |        |
| (671. RAD/SEC)     | 6300   | 46.4   | 52.2   | 56.1   | 60.4   | 62.3   | 63.3   | 64.1   | 64.0   | 59.7   | 50.0   |        |        |        |        |        |
| MFD 8023. RPM      | 8000   | 43.3   | 49.9   | 53.4   | 57.4   | 60.1   | 61.3   | 61.6   | 61.8   | 57.1   | 47.0   |        |        |        |        |        |
| (924. RAD/SEC)     | 10000  | 41.5   | 46.6   | 51.8   | 55.8   | 57.7   | 58.6   | 59.4   | 59.4   | 56.7   | 43.9   |        |        |        |        |        |
| NO. OF BLADES 15   | 12500  | 37.1   | 42.9   | 47.6   | 52.1   | 54.6   | 55.6   | 56.7   | 55.4   | 49.7   | 37.9   |        |        |        |        |        |
| FAN TIP SPEED      | 16000  | 29.7   | 35.9   | 41.7   | 45.4   | 47.9   | 48.7   | 49.4   | 48.7   | 41.6   | 27.7   |        |        |        |        |        |
| 554. FT/SEC        | 20000  | 23.3   | 29.8   | 35.0   | 39.5   | 42.2   | 43.0   | 43.7   | 41.6   | 34.9   | 18.4   |        |        |        |        |        |
|                    | 25000  | 15.7   | 21.0   | 26.3   | 30.8   | 33.1   | 34.1   | 33.8   | 30.7   | 22.7   | 2.8    |        |        |        |        |        |
|                    | 31500  | 3.6    | 9.6    | 15.0   | 20.1   | 22.4   | 22.7   | 21.7   | 16.8   | 5.4    |        |        |        |        |        |        |
|                    | 40000  |        |        |        | 3.0    | 4.0    | 4.7    | 2.6    |        |        |        |        |        |        |        |        |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |        | 61.7   | 66.3   | 69.9   | 72.5   | 74.4   | 75.6   | 76.2   | 75.7   | 73.2   | 60.0   |        |        |        |        |        |
| PM2.5              |        | 74.4   | 79.8   | 83.3   | 86.9   | 88.5   | 89.1   | 90.4   | 89.6   | 87.4   | 79.2   |        |        |        |        |        |

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|   | 50    | 60    | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 160   | 170   | 180   | 190   | 200   |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FREQ. (1.02)(1.26)(1.58)(1.99)(2.51)(3.15)(3.98)(5.01)(6.31)(7.94)(10.0)(12.6)(16.2)(20.3)(25.1)(31.5)(39.8)(50.1)(63.1)(79.4)(100.0) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| RADIAL 17 FT. (5.11)  | 100   | 64.9  | 71.1  | 71.4  | 72.3  | 73.0  | 73.7  | 73.4  | 74.2  | 75.2  | 76.4  | 78.0  | 79.9  | 82.3  | 85.2  | 88.8  |
| VEHICLE RWS   | 125   | 74.3  | 78.8  | 79.4  | 77.1  | 79.0  | 78.5  | 78.7  | 78.9  | 79.7  | 82.2  | 85.2  | 88.0  | 91.7  | 95.5  | 100.0 |
| COIFIC 13   | 160   | 71.0  | 72.8  | 72.4  | 74.1  | 74.6  | 74.6  | 75.5  | 76.4  | 76.9  | 78.7  | 81.7  | 84.7  | 88.4  | 92.2  | 96.9  |
| LCC SCHEMECTADY   | 200   | 75.5  | 71.6  | 72.2  | 74.6  | 77.3  | 78.0  | 78.7  | 80.7  | 81.2  | 82.2  | 83.9  | 85.7  | 87.5  | 89.3  | 91.1  |
| DATE 11/13/74   | 250   | 71.8  | 74.3  | 76.2  | 78.3  | 79.0  | 79.2  | 80.7  | 81.2  | 82.2  | 83.9  | 85.7  | 87.5  | 89.3  | 91.1  | 92.9  |
| RUN: 15/6   | 315   | 75.3  | 75.1  | 76.2  | 78.3  | 79.1  | 79.2  | 79.9  | 81.7  | 82.2  | 84.2  | 86.2  | 88.2  | 90.2  | 92.2  | 94.2  |
| TAPE  | 400   | 73.1  | 74.6  | 75.4  | 76.6  | 78.0  | 78.5  | 78.9  | 80.4  | 81.2  | 82.4  | 84.2  | 86.0  | 87.8  | 89.6  | 91.4  |
| BAR 29.3 MG   | 500   | 71.3  | 72.8  | 73.4  | 75.2  | 77.5  | 78.8  | 79.9  | 81.7  | 82.2  | 84.2  | 86.0  | 87.8  | 89.6  | 91.4  | 93.2  |
| (98012. N/12)   | 600   | 72.9  | 74.6  | 75.4  | 78.6  | 79.8  | 81.3  | 82.2  | 83.2  | 84.2  | 85.9  | 87.9  | 89.9  | 91.9  | 93.9  | 95.9  |
| TAMB 50 SEC F   | 800   | 74.6  | 76.3  | 77.2  | 81.4  | 81.3  | 82.0  | 83.2  | 83.9  | 85.7  | 87.7  | 89.7  | 91.7  | 93.7  | 95.7  | 97.7  |
| (283. SEC K)  | 1000  | 75.9  | 75.6  | 77.9  | 79.1  | 80.6  | 82.3  | 83.7  | 85.2  | 86.7  | 88.2  | 89.7  | 91.2  | 92.7  | 94.2  | 95.7  |
| T-ET 45 SEC F   | 1200  | 75.1  | 77.4  | 78.7  | 80.7  | 82.8  | 84.3  | 85.4  | 87.4  | 88.7  | 90.2  | 91.7  | 93.2  | 94.7  | 96.2  | 97.7  |
| (280. SEC K)  | 1600  | 77.4  | 82.6  | 82.9  | 86.2  | 87.9  | 91.1  | 92.4  | 93.4  | 91.2  | 94.2  | 96.2  | 98.2  | 100.2 | 102.2 | 104.2 |
| HACT 6.49 CM/P3   | 2000  | 72.6  | 85.8  | 85.9  | 89.7  | 92.9  | 94.1  | 94.9  | 94.4  | 94.4  | 92.4  | 94.4  | 96.4  | 98.4  | 100.4 | 102.4 |
| (.00640 KG/M3)  | 2500  | 78.1  | 83.4  | 85.9  | 90.0  | 91.7  | 92.3  | 92.4  | 93.6  | 91.2  | 94.2  | 96.2  | 98.2  | 100.2 | 102.2 | 104.2 |
| NPA 7136 RPM  | 3100  | 78.4  | 84.2  | 86.9  | 90.5  | 92.2  | 93.3  | 94.1  | 95.3  | 94.4  | 95.4  | 96.4  | 97.4  | 98.4  | 99.4  | 100.4 |
| ( 747. RAD/SEC)   | 4000  | 79.3  | 84.9  | 88.3  | 91.5  | 93.4  | 95.3  | 96.0  | 96.5  | 95.4  | 96.4  | 97.4  | 98.4  | 99.4  | 100.4 | 101.4 |
| NPK 7199 RPM  | 5000  | 73.5  | 84.1  | 87.7  | 90.5  | 92.9  | 94.5  | 95.2  | 95.7  | 93.6  | 97.7  | 99.7  | 101.7 | 103.7 | 105.7 | 107.7 |
| ( 754. RAD/SEC)   | 6000  | 76.3  | 82.1  | 85.2  | 88.6  | 91.0  | 92.7  | 93.7  | 95.0  | 91.3  | 94.9  | 96.9  | 98.9  | 100.9 | 102.9 | 104.9 |
| NPS 8823 RPM  | 8000  | 75.2  | 80.5  | 84.0  | 87.4  | 89.6  | 90.6  | 93.2  | 94.5  | 91.7  | 95.3  | 97.3  | 99.3  | 101.3 | 103.3 | 105.3 |
| ( 924. RAD/SEC)   | 10000 | 74.4  | 80.1  | 84.0  | 87.1  | 89.7  | 90.7  | 92.7  | 94.0  | 91.2  | 94.8  | 96.8  | 98.8  | 100.8 | 102.8 | 104.8 |
| NO. OF BLADES 15  | 12500 | 73.1  | 77.8  | 82.3  | 85.7  | 88.1  | 89.3  | 91.8  | 93.3  | 88.7  | 93.7  | 95.7  | 97.7  | 99.7  | 101.7 | 103.7 |
| FAN TIP SPEEDS 16000  | 16000 | 69.9  | 75.5  | 79.2  | 82.3  | 84.8  | 87.3  | 89.2  | 91.1  | 87.0  | 92.1  | 94.1  | 96.1  | 98.1  | 100.1 | 102.1 |
| 623. FT/SEC   | 20000 | 69.1  | 74.5  | 78.3  | 81.5  | 84.6  | 86.7  | 88.1  | 90.7  | 86.0  | 91.1  | 93.1  | 95.1  | 97.1  | 99.1  | 101.1 |
|   | 25000 | 68.1  | 73.2  | 76.3  | 82.2  | 82.7  | 85.0  | 88.0  | 89.1  | 86.6  | 89.7  | 91.7  | 93.7  | 95.7  | 97.7  | 99.7  |
|   | 31000 | 67.4  | 72.3  | 75.5  | 83.1  | 82.0  | 84.2  | 86.3  | 86.1  | 85.3  | 87.5  | 89.5  | 91.5  | 93.5  | 95.5  | 97.5  |
|   | 40000 | 67.0  | 70.4  | 73.0  | 81.5  | 79.3  | 82.3  | 83.7  | 84.6  | 83.3  | 85.3  | 87.3  | 89.3  | 91.3  | 93.3  | 95.3  |
|   | 50000 | 63.4  | 68.1  | 71.3  | 77.6  | 76.8  | 80.2  | 81.5  | 80.7  | 79.4  | 79.4  | 81.4  | 83.4  | 85.4  | 87.4  | 89.4  |
|   | 63000 | 71.0  | 67.1  | 70.6  | 77.2  | 79.1  | 79.0  | 78.7  | 75.6  | 74.6  | 71.5  | 71.5  | 73.5  | 75.5  | 77.5  | 79.5  |
|   | 80000 | 73.4  | 72.1  | 72.4  | 79.7  | 80.9  | 81.6  | 74.4  | 75.3  | 74.1  | 71.5  | 71.5  | 73.5  | 75.5  | 77.5  | 79.5  |
| OVERALL MEASURED  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| OVERALL CALCULATED  |       | 89.5  | 94.1  | 96.5  | 99.9  | 102.1 | 103.5 | 104.6 | 105.5 | 103.5 | 99.2  | 99.2  | 101.2 | 103.2 | 105.2 | 107.2 |
| PM2.5   |       | 102.4 | 107.3 | 110.0 | 113.1 | 115.5 | 116.5 | 117.4 | 118.1 | 116.0 | 112.1 | 112.1 | 114.1 | 116.1 | 118.1 | 120.1 |

|                    | 59.    | 60.    | 70.    | 79.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 0.   | 0. | 0. | 0. | 0. | 0.  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|-----|
| FREQ.              | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (0.  | 0. | 0. | 0. | 0. | 0.) |
| SIDELINE 200. FT.  | 30     | 33     | 36     | 39     | 42     | 45     | 48     | 51     | 54     | 57     | 60   | 63 | 66 | 69 | 72 | 75  |
| ( 60.96 M)         | 100    | 43.7   | 48.8   | 49.7   | 57.3   | 52.1   | 51.7   | 50.7   | 50.4   | 51.1   | 53.9 |    |    |    |    |     |
| VEHICLE R-55       | 125    | 51.1   | 52.3   | 56.9   | 55.4   | 54.3   | 54.4   | 54.2   | 55.1   | 54.2   | 54.4 |    |    |    |    |     |
| CCHVIC 13          | 180    | 47.8   | 50.4   | 50.5   | 52.4   | 53.0   | 53.3   | 53.6   | 54.0   | 54.1   | 50.7 |    |    |    |    |     |
| LOC SCHEMECTADY    | 200    | 47.5   | 49.1   | 53.2   | 52.8   | 55.4   | 55.7   | 55.7   | 54.6   | 56.5   | 56.3 |    |    |    |    |     |
| DATE 11/13/74      | 250    | 50.4   | 51.7   | 54.1   | 56.4   | 57.0   | 59.9   | 57.6   | 57.0   | 56.3   | 55.0 |    |    |    |    |     |
| RUN 15/6           | 315    | 51.8   | 53.4   | 54.7   | 54.4   | 57.0   | 56.0   | 56.8   | 57.4   | 56.9   | 56.7 |    |    |    |    |     |
| TAPE               | 400    | 49.4   | 51.8   | 53.2   | 54.5   | 55.9   | 59.0   | 56.7   | 56.9   | 55.1   | 55.0 |    |    |    |    |     |
| BAR 29.3 MC        | 500    | 47.6   | 50.0   | 51.1   | 53.7   | 55.3   | 56.1   | 56.6   | 56.2   | 54.7   | 53.4 |    |    |    |    |     |
| ( 98912. 11/42)    | 630    | 39.0   | 51.6   | 53.0   | 54.8   | 57.5   | 58.5   | 58.7   | 58.5   | 58.5   | 53.9 |    |    |    |    |     |
| TAMB 50. DEG F     | 800    | 50.6   | 52.2   | 54.6   | 56.9   | 56.9   | 56.9   | 59.6   | 59.1   | 57.1   | 57.7 |    |    |    |    |     |
| ( 283. DEG K)      | 1000   | 49.7   | 52.4   | 55.2   | 56.6   | 58.2   | 59.3   | 59.0   | 61.2   | 57.4   | 52.2 |    |    |    |    |     |
| T-ET 45. DEG F     | 1250   | 59.9   | 54.0   | 55.4   | 54.1   | 60.1   | 61.2   | 62.5   | 62.3   | 59.2   | 53.4 |    |    |    |    |     |
| ( 280. DEG K)      | 1600   | 52.9   | 59.1   | 59.9   | 63.4   | 67.9   | 67.0   | 68.6   | 67.1   | 64.0   | 54.1 |    |    |    |    |     |
| MACT 6.40 CM/MS    | 2000   | 54.9   | 61.7   | 62.7   | 66.3   | 69.9   | 70.0   | 70.6   | 64.8   | 64.9   | 57.5 |    |    |    |    |     |
| ( 1.00640 KG/MS)   | 2500   | 53.2   | 59.5   | 62.5   | 66.9   | 68.4   | 68.7   | 67.9   | 67.8   | 63.4   | 55.7 |    |    |    |    |     |
| MFA 7130. RPM      | 3150   | 53.1   | 59.9   | 63.2   | 67.1   | 68.7   | 69.4   | 69.3   | 66.2   | 66.2   | 57.1 |    |    |    |    |     |
| ( 747. RAD/SEC)    | 4000   | 53.6   | 60.2   | 64.2   | 67.7   | 69.4   | 70.9   | 70.7   | 69.8   | 66.5   | 56.7 |    |    |    |    |     |
| MFK 7199. RPM      | 5000   | 52.5   | 59.1   | 63.4   | 64.4   | 68.7   | 69.0   | 69.4   | 68.7   | 64.3   | 54.5 |    |    |    |    |     |
| ( 754. RAD/SEC)    | 6300   | 49.5   | 56.4   | 60.1   | 63.9   | 66.1   | 67.4   | 67.3   | 67.1   | 61.0   | 52.7 |    |    |    |    |     |
| MFD 8823. RPM      | 8000   | 47.0   | 53.7   | 57.8   | 61.7   | 63.7   | 64.3   | 65.6   | 65.1   | 59.7   | 50.3 |    |    |    |    |     |
| ( 924. RAD/SEC)    | 10000  | 44.5   | 51.6   | 56.3   | 59.5   | 62.2   | 62.0   | 63.4   | 62.7   | 56.7   | 47.0 |    |    |    |    |     |
| NO. OF BLADES 15   | 12500  | 40.6   | 46.9   | 52.4   | 56.1   | 58.4   | 58.9   | 60.0   | 59.2   | 51.0   | 41.2 |    |    |    |    |     |
| FAV TIP SPEED      | 16000  | 33.0   | 40.7   | 45.5   | 49.2   | 51.4   | 53.0   | 53.2   | 52.3   | 43.6   | 31.6 |    |    |    |    |     |
| 623. FT/SEC        | 20000  | 26.6   | 34.6   | 39.9   | 43.6   | 46.5   | 47.4   | 47.7   | 45.7   | 37.2   | 21.4 |    |    |    |    |     |
|                    | 25000  | 17.6   | 25.9   | 30.8   | 37.6   | 37.7   | 38.6   | 38.9   | 35.3   | 25.3   | 6.4  |    |    |    |    |     |
|                    | 31500  | 5.0    | 14.2   | 19.9   | 28.5   | 27.0   | 27.3   | 25.4   | 21.4   | 8.5    |      |    |    |    |    |     |
|                    | 40000  |        |        | 2.4    | 12.2   | 9.4    | 9.8    | 6.3    |        |        |      |    |    |    |    |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| OVERALL CALCULATED |        | 64.1   | 69.6   | 72.2   | 75.6   | 77.4   | 78.6   | 78.7   | 76.0   | 74.3   | 66.0 |    |    |    |    |     |
| PNBP               |        | 77.0   | 82.8   | 86.0   | 89.4   | 91.3   | 92.3   | 92.3   | 91.6   | 88.2   | 80.6 |    |    |    |    |     |



|                     | 50    | 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 |
|---------------------|-------|------|------|------|------|------|------|------|------|------|------|
| SIDELINE 200 FT.    | 50    | 63   |      |      |      |      |      |      |      |      |      |
| ( 60-90 M)          | 100   | 47.7 | 51.3 | 52.6 | 53.0 | 54.1 | 54.3 | 55.5 | 53.9 | 55.0 | 56.7 |
| VEHICLE R-55        | 125   | 54.1 | 55.2 | 53.5 | 54.2 | 58.4 | 54.9 | 54.9 | 55.5 | 54.4 | 57.3 |
| CONFIG 13           | 160   | 51.3 | 53.6 | 54.2 | 54.4 | 56.7 | 57.0 | 57.6 | 57.9 | 56.0 | 56.3 |
| LCC SCHEMECTADV     | 200   | 51.7 | 52.8 | 53.9 | 54.5 | 57.5 | 58.7 | 59.0 | 60.3 | 59.4 | 54.2 |
| DATE 11/13/74       | 250   | 54.3 | 56.9 | 58.0 | 58.4 | 60.5 | 61.0 | 62.1 | 61.7 | 60.3 | 54.3 |
| RJH 13/1            | 315   | 54.7 | 56.6 | 59.0 | 54.7 | 60.9 | 60.6 | 60.5 | 65.1 | 57.0 | 54.3 |
| TAPE                | 400   | 53.7 | 55.5 | 56.4 | 57.9 | 59.6 | 59.2 | 59.2 | 59.7 | 54.2 | 54.7 |
| BAR 29.3 HG         | 500   | 51.3 | 53.4 | 54.3 | 54.7 | 57.8 | 58.9 | 59.6 | 59.1 | 57.6 | 55.3 |
| ( 94912. N/12)      | 630   | 52.7 | 55.1 | 56.4 | 54.7 | 60.5 | 62.0 | 61.9 | 61.7 | 59.2 | 54.3 |
| TAND 50 DEG F       | 800   | 56.1 | 58.4 | 59.6 | 60.3 | 61.4 | 62.4 | 62.6 | 62.8 | 60.0 | 56.5 |
| ( 283. DEG K)       | 1000  | 53.3 | 55.8 | 57.9 | 59.1 | 61.2 | 61.6 | 62.7 | 62.4 | 59.9 | 54.1 |
| T-ET 45 DEG F       | 1200  | 53.1 | 55.2 | 58.1 | 60.5 | 62.9 | 63.7 | 64.5 | 64.7 | 61.1 | 54.6 |
| ( 280. DEG K)       | 1400  | 53.4 | 57.0 | 59.4 | 62.4 | 64.5 | 65.3 | 65.4 | 65.3 | 61.6 | 54.3 |
| MACT 6.43 G/H3      | 2000  | 60.7 | 63.6 | 66.7 | 68.5 | 73.3 | 75.4 | 76.3 | 74.5 | 64.1 | 60.9 |
| ( 300643 K6/H3)     | 2500  | 55.7 | 62.4 | 63.2 | 69.4 | 71.4 | 72.4 | 70.6 | 70.5 | 64.4 | 55.3 |
| NFA 7962. RPM       | 3150  | 55.4 | 61.9 | 65.2 | 67.4 | 73.9 | 76.4 | 76.5 | 72.4 | 64.4 | 57.3 |
| ( 634. RAD/SEC)     | 4000  | 55.8 | 63.9 | 66.9 | 70.9 | 72.9 | 73.6 | 73.5 | 72.4 | 67.2 | 59.1 |
| NFK 8032. RPM       | 5000  | 54.2 | 62.1 | 65.6 | 67.2 | 71.4 | 71.8 | 71.4 | 71.1 | 64.0 | 54.1 |
| ( 841. RAD/SEC)     | 6300  | 59.9 | 60.1 | 64.6 | 64.3 | 69.6 | 70.3 | 76.3 | 76.8 | 62.9 | 54.6 |
| NFD 8823. RPM       | 8000  | 50.5 | 57.9 | 61.8 | 65.5 | 67.2 | 67.9 | 68.1 | 67.8 | 60.4 | 51.6 |
| ( 924. RAD/SEC)     | 10000 | 48.5 | 55.8 | 59.5 | 63.3 | 65.2 | 65.6 | 66.4 | 64.6 | 54.4 | 48.3 |
| NO. OF GLAZES 15    | 12500 | 45.3 | 52.6 | 57.3 | 59.9 | 62.1 | 62.4 | 64.0 | 62.4 | 53.4 | 43.3 |
| FAN TIP SPEED 16000 | 16000 | 39.0 | 45.4 | 48.8 | 52.7 | 55.4 | 56.3 | 56.5 | 55.2 | 45.4 | 32.8 |
| 695. FT/SEC         | 20000 | 32.1 | 39.8 | 43.6 | 47.6 | 50.2 | 50.7 | 51.5 | 46.4 | 34.9 | 23.6 |
|                     | 25000 | 24.3 | 31.6 | 35.6 | 39.8 | 42.2 | 42.4 | 42.6 | 38.5 | 24.4 | 9.5  |
|                     | 31500 | 12.2 | 19.4 | 24.1 | 24.5 | 31.6 | 31.3 | 29.5 | 25.1 | 10.6 |      |
|                     | 40000 |      | 2.3  | 6.1  | 11.7 | 13.2 | 13.1 | 10.5 | 2.6  |      |      |
|                     | 50000 |      |      |      |      |      |      |      |      |      |      |
|                     | 63000 |      |      |      |      |      |      |      |      |      |      |
|                     | 80000 |      |      |      |      |      |      |      |      |      |      |
| OVERALL CALCULATED  |       | 47.6 | 72.2 | 75.1 | 74.5 | 80.6 | 81.3 | 61.6 | 61.2 | 75.7 | 74.2 |
| PAGE                |       | 80.5 | 86.0 | 88.8 | 92.3 | 94.3 | 94.9 | 93.8 | 94.6 | 89.4 | 82.5 |





MUPEL SOUND PRESSURE LEVELS 150. LEG. F. 70 PERCENT DEL. MIN. (AV)  
 ANGLE FROM INLET IN DEGREES (AND RADIANS)

|  | 50    | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160 | 170 | 180 |
|--|-------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| FREQ. (1.62)(1.19)(1.36)(1.53)(1.71)(1.90)(2.08)(2.24)(2.42)(2.60)(2.78)(2.96)(3.14)(3.32)(3.50) | 50    | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160 | 170 | 180 |
| SIDELINE 200. FT.  | 50    |      |      |      |      |      |      |      |      |      |      |     |     |     |
| ( 60.96 M)   | 63    |      |      |      |      |      |      |      |      |      |      |     |     |     |
| VEHICLE R-55   | 150   | 48.0 | 51.0 | 52.6 | 52.8 | 54.6 | 55.2 | 55.7 | 54.9 | 54.7 | 56.9 |     |     |     |
| CONFIG 13  | 125   | 55.6 | 55.5 | 54.8 | 54.9 | 58.6 | 58.6 | 59.9 | 58.5 | 58.1 | 57.3 |     |     |     |
| LCC SCHENECTADY  | 100   | 51.3 | 54.1 | 54.7 | 54.9 | 56.7 | 56.8 | 57.9 | 56.7 | 56.7 | 54.3 |     |     |     |
| DATE 11/13/74  | 250   | 51.4 | 52.4 | 53.6 | 55.7 | 57.9 | 59.0 | 59.5 | 60.0 | 59.1 | 59.4 |     |     |     |
| RUN 15/8   | 250   | 54.6 | 57.2 | 58.8 | 59.9 | 60.5 | 61.1 | 61.6 | 62.2 | 60.3 | 58.3 |     |     |     |
| TAPE   | 315   | 54.7 | 56.6 | 58.2 | 59.4 | 60.2 | 60.3 | 61.0 | 60.8 | 59.4 | 58.3 |     |     |     |
| BAR 29.3 MG  | 450   | 57.4 | 55.5 | 56.1 | 57.5 | 58.1 | 59.8 | 59.7 | 59.7 | 58.7 | 58.2 |     |     |     |
| (98912. 4/M2)  | 500   | 51.3 | 54.2 | 54.8 | 57.0 | 58.1 | 58.9 | 60.1 | 59.6 | 58.1 | 55.7 |     |     |     |
| TANK 50. DEG F   | 633   | 52.5 | 54.4 | 56.2 | 54.9 | 60.5 | 61.5 | 61.9 | 61.5 | 56.7 | 56.5 |     |     |     |
| (283. DEG M)   | 800   | 56.1 | 58.2 | 59.1 | 60.3 | 61.7 | 62.2 | 62.8 | 62.3 | 60.0 | 58.3 |     |     |     |
| TRCT 40. DEG F   | 1000  | 53.3 | 55.5 | 57.7 | 58.4 | 61.3 | 61.8 | 62.4 | 62.4 | 59.8 | 53.8 |     |     |     |
| (281. DEG M)   | 1250  | 53.1 | 54.7 | 56.3 | 57.9 | 62.4 | 63.4 | 64.8 | 64.5 | 61.1 | 54.3 |     |     |     |
| MACT 6.95 CM/M3  | 1500  | 53.4 | 57.5 | 60.1 | 62.9 | 65.9 | 65.5 | 65.8 | 65.8 | 61.6 | 54.2 |     |     |     |
| (1.00000 KC/M3)  | 2000  | 60.4 | 63.3 | 65.4 | 67.5 | 73.1 | 75.3 | 75.4 | 74.5 | 67.2 | 57.4 |     |     |     |
| MFA 7963. RPM  | 2500  | 55.9 | 62.2 | 65.7 | 69.4 | 71.7 | 70.9 | 70.1 | 70.3 | 64.8 | 56.9 |     |     |     |
| ( 834. RAD/SEC)  | 3150  | 55.9 | 61.9 | 65.7 | 69.1 | 71.1 | 70.0 | 70.0 | 71.9 | 64.1 | 57.5 |     |     |     |
| MFK 8033. RPM  | 4000  | 55.8 | 63.9 | 68.9 | 70.9 | 73.2 | 73.4 | 73.7 | 72.3 | 67.2 | 54.9 |     |     |     |
| ( 841. RAD/SEC)  | 5000  | 54.2 | 61.8 | 65.4 | 68.2 | 70.7 | 71.8 | 71.4 | 71.4 | 64.0 | 55.8 |     |     |     |
| MFD 8023. RPM  | 6300  | 52.9 | 60.6 | 64.8 | 68.1 | 69.8 | 70.8 | 70.6 | 70.4 | 62.9 | 54.6 |     |     |     |
| ( 924. RAD/SEC)  | 8000  | 57.5 | 57.8 | 62.0 | 65.2 | 66.9 | 67.0 | 68.1 | 67.4 | 62.1 | 51.6 |     |     |     |
| NO. OF BLADES 15   | 10000 | 48.2 | 55.3 | 60.3 | 63.5 | 65.4 | 66.6 | 67.1 | 64.8 | 57.3 | 47.5 |     |     |     |
| FAH TIP SPEED 16000  | 12500 | 43.3 | 52.3 | 57.0 | 59.9 | 61.8 | 63.3 | 63.9 | 61.8 | 52.4 | 42.7 |     |     |     |
| 695. FT/SEC  | 16000 | 37.9 | 45.3 | 49.4 | 52.8 | 55.5 | 56.2 | 56.1 | 55.1 | 45.2 | 33.0 |     |     |     |
|  | 20000 | 32.5 | 39.3 | 43.5 | 44.9 | 49.6 | 51.1 | 51.4 | 49.1 | 38.3 | 23.2 |     |     |     |
|  | 25000 | 24.6 | 31.4 | 35.4 | 39.4 | 41.6 | 42.7 | 42.8 | 39.1 | 27.6 | 9.3  |     |     |     |
|  | 31500 | 12.5 | 19.0 | 24.7 | 28.5 | 30.6 | 31.2 | 29.1 | 24.7 | 10.7 |      |     |     |     |
|  | 40000 |      | 2.1  | 7.9  | 11.4 | 13.2 | 13.0 | 10.3 | 2.4  |      |      |     |     |     |
|  | 50000 |      |      |      |      |      |      |      |      |      |      |     |     |     |
|  | 63000 |      |      |      |      |      |      |      |      |      |      |     |     |     |
|  | 80000 |      |      |      |      |      |      |      |      |      |      |     |     |     |
| OVERALL CALCULATED   |       | 67.6 | 72.2 | 75.2 | 78.5 | 80.6 | 81.3 | 81.5 | 81.6 | 75.4 | 70.1 |     |     |     |
| M30  |       | 60.4 | 66.0 | 68.9 | 72.3 | 74.4 | 74.8 | 75.1 | 74.3 | 69.3 | 62.2 |     |     |     |

ORIGINAL PAGE IS  
 OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150) DATE = MONTH 11 DAY 22 YR. 1971  
 ANGLES FROM INLET IN DEGREES (10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150)

|                    | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    |      |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| Param              | (1.22) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) |      |
| RADIAL 17. FT.     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     |      |
| ( 5. H)            | 100    | 69.3   | 72.8   | 76.4   | 79.9   | 79.9   | 74.6   | 73.4   | 68.4   | 70.4   | 74.4   | 109. |
| VEHICLE            | 125    | 66.7   | 67.6   | 70.2   | 63.1   | 66.7   | 68.5   | 69.4   | 70.7   | 71.4   | 72.7   | 107. |
| CONFIG             | 13     | 100    | 64.3   | 65.3   | 65.7   | 65.4   | 67.5   | 68.5   | 69.6   | 71.2   | 72.6   | 108. |
| LDC SCHE. ECTARY   | 200    | 64.3   | 65.3   | 66.4   | 67.9   | 70.3   | 71.8   | 72.4   | 74.4   | 75.7   | 76.7   | 105. |
| DATE 11/13/74      | 230    | 64.3   | 67.3   | 69.7   | 70.9   | 71.3   | 71.8   | 72.7   | 73.7   | 74.2   | 75.7   | 109. |
| R.M. 15/9          | 315    | 67.8   | 69.3   | 70.2   | 71.4   | 72.5   | 72.6   | 73.2   | 74.4   | 74.7   | 75.7   | 106. |
| TAPE               | 400    | 64.6   | 68.6   | 68.9   | 70.4   | 71.8   | 72.9   | 73.4   | 74.4   | 74.2   | 74.2   | 105. |
| BAR 29.3 MC        | 500    | 65.3   | 67.3   | 67.2   | 68.9   | 71.1   | 72.1   | 73.7   | 74.2   | 74.2   | 74.7   | 105. |
| (98012. -/K2)      | 630    | 66.9   | 69.1   | 69.9   | 72.7   | 74.3   | 75.6   | 77.7   | 77.2   | 77.4   | 77.0   | 106. |
| TAMB 50. DEG F     | 600    | 70.1   | 71.3   | 72.4   | 73.7   | 75.9   | 75.6   | 78.9   | 79.2   | 78.9   | 77.4   | 110. |
| (263. DEG K)       | 1000   | 67.9   | 70.3   | 71.9   | 73.7   | 75.6   | 76.8   | 78.4   | 79.7   | 79.2   | 76.3   | 110. |
| TACT 40. DEG F     | 1200   | 73.6   | 76.2   | 77.7   | 79.5   | 81.4   | 81.0   | 83.9   | 84.7   | 85.7   | 84.2   | 115. |
| (291. DEG K)       | 1600   | 73.1   | 76.2   | 77.9   | 79.9   | 81.2   | 82.4   | 84.1   | 85.4   | 85.7   | 81.0   | 110. |
| HACT 6.00 CM/MS    | 2000   | 72.4   | 75.4   | 77.3   | 78.5   | 81.1   | 83.4   | 85.6   | 85.6   | 84.2   | 81.0   | 110. |
| (.00500 CM/MS)     | 2500   | 73.6   | 78.2   | 80.3   | 84.6   | 85.2   | 87.4   | 88.1   | 89.4   | 89.4   | 83.5   | 119. |
| NFA 5573. RPM      | 3150   | 72.9   | 79.1   | 80.4   | 83.5   | 86.9   | 87.3   | 88.3   | 89.1   | 89.6   | 83.9   | 120. |
| ( 593. RAD/SEC)    | 4000   | 71.3   | 77.8   | 80.3   | 83.5   | 85.9   | 87.3   | 89.0   | 89.7   | 88.6   | 83.9   | 120. |
| NFR 5622. RPM      | 5000   | 69.7   | 75.6   | 78.3   | 82.7   | 84.6   | 85.7   | 86.7   | 88.4   | 87.5   | 82.1   | 118. |
| ( 589. RAD/SEC)    | 6300   | 68.5   | 73.9   | 76.4   | 81.1   | 83.4   | 84.2   | 86.7   | 87.2   | 86.5   | 81.3   | 117. |
| NFR 6923. RPM      | 8000   | 67.1   | 72.2   | 74.2   | 78.3   | 81.6   | 82.4   | 84.9   | 84.2   | 85.6   | 80.3   | 116. |
| ( 924. RAD/SEC)    | 10000  | 66.7   | 71.1   | 74.2   | 78.4   | 83.2   | 82.4   | 84.4   | 86.2   | 85.5   | 80.3   | 116. |
| NO. OF BLADES 15   | 12500  | 65.3   | 69.5   | 72.5   | 76.4   | 77.5   | 81.1   | 83.3   | 85.7   | 83.6   | 78.2   | 115. |
| FAN TIP SPEED      | 16000  | 67.3   | 66.7   | 69.6   | 74.3   | 75.7   | 79.6   | 81.3   | 83.3   | 82.2   | 75.2   | 113. |
| 487. FT/SEC        | 20000  | 63.5   | 65.7   | 67.7   | 73.2   | 75.3   | 77.6   | 81.3   | 83.9   | 81.9   | 75.0   | 113. |
|                    | 25000  | 64.0   | 65.5   | 67.4   | 71.2   | 73.6   | 75.7   | 78.2   | 79.7   | 78.8   | 73.1   | 111. |
|                    | 31500  | 64.2   | 64.1   | 66.6   | 70.2   | 72.6   | 75.1   | 76.9   | 79.2   | 78.4   | 72.2   | 111. |
|                    | 40000  | 64.6   | 63.7   | 66.1   | 68.4   | 70.1   | 72.6   | 75.5   | 76.1   | 75.4   | 70.5   | 110. |
|                    | 50000  | 64.2   | 64.2   | 67.9   | 69.9   | 69.6   | 70.5   | 73.3   | 72.5   | 72.6   | 68.9   | 116. |
|                    | 63000  | 70.3   | 66.4   | 68.6   | 67.6   | 70.4   | 70.7   | 72.5   | 76.3   | 76.6   | 64.6   | 112. |
|                    | 80000  | 73.1   | 69.8   | 72.4   | 71.4   | 73.1   | 74.3   | 75.6   | 74.5   | 73.3   | 72.2   | 119. |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |      |
| OVERALL CALCULATED |        | 64.1   | 67.4   | 69.6   | 72.7   | 75.0   | 76.0   | 77.5   | 79.6   | 78.2   | 73.8   | 129. |
| PMDB               |        | 95.1   | 108.6  | 102.7  | 105.9  | 108.4  | 109.1  | 116.6  | 111.4  | 111.4  | 106.9  |      |

|                     | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 160    | 170    | 180    | 190    | 200    |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ.               | (1.02) | (1.12) | (1.26) | (1.38) | (1.53) | (1.71) | (1.90) | (2.10) | (2.34) | (2.62) | (2.93) | (3.28) | (3.67) | (4.10) | (4.58) | (5.11) |
| SIDELINE 200 FT.    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| (1 60.00 M)         | 100    | 46.5   | 50.6   | 54.7   | 58.8   | 57.1   | 56.7   | 56.7   | 54.6   | 45.1   | 40.8   |        |        |        |        |        |
| VEHICLE R-55        | 125    | 43.1   | 45.3   | 48.3   | 47.5   | 47.1   | 46.4   | 46.7   | 46.6   | 46.6   | 46.9   |        |        |        |        |        |
| CONFIG 13           | 160    | 41.1   | 43.4   | 43.8   | 44.7   | 45.7   | 46.3   | 47.1   | 47.2   | 47.3   | 48.7   |        |        |        |        |        |
| LCC SCHEMECTADY     | 200    | 41.0   | 42.8   | 44.4   | 46.1   | 45.4   | 49.5   | 49.5   | 50.3   | 49.5   | 48.8   |        |        |        |        |        |
| DATE 11/13/74       | 250    | 42.9   | 45.2   | 47.6   | 49.0   | 49.8   | 49.4   | 49.6   | 49.5   | 48.3   | 47.4   |        |        |        |        |        |
| RUN 15/9            | 315    | 44.3   | 46.7   | 48.0   | 49.4   | 50.5   | 50.3   | 50.0   | 50.1   | 48.7   | 47.2   |        |        |        |        |        |
| TAPE                | 400    | 42.3   | 45.8   | 46.7   | 48.3   | 49.9   | 50.0   | 50.2   | 50.0   | 48.3   | 45.5   |        |        |        |        |        |
| BAR 20.3 MC         | 500    | 41.6   | 44.5   | 46.2   | 48.8   | 48.3   | 49.4   | 50.3   | 49.7   | 47.9   | 45.9   |        |        |        |        |        |
| (100012. M/M2)      | 650    | 43.6   | 46.1   | 47.5   | 49.4   | 52.0   | 52.0   | 54.2   | 52.5   | 51.0   | 47.9   |        |        |        |        |        |
| TAMB 50. DEG F      | 800    | 46.1   | 48.2   | 49.9   | 51.3   | 53.4   | 53.7   | 55.3   | 54.4   | 52.4   | 48.2   |        |        |        |        |        |
| (200. DEG K)        | 1000   | 43.7   | 47.1   | 49.2   | 51.2   | 53.9   | 53.0   | 54.7   | 54.7   | 52.4   | 47.4   |        |        |        |        |        |
| TACT 40. DEG F      | 1250   | 49.4   | 53.3   | 54.8   | 56.9   | 58.6   | 58.5   | 60.6   | 59.5   | 58.7   | 54.4   |        |        |        |        |        |
| (200. DEG K)        | 1600   | 48.7   | 53.3   | 54.9   | 57.0   | 59.0   | 59.1   | 60.1   | 60.1   | 58.5   | 52.9   |        |        |        |        |        |
| MACT 6.00 CM/M3     | 2000   | 47.7   | 51.6   | 54.7   | 56.6   | 61.1   | 61.0   | 61.3   | 60.1   | 58.7   | 50.5   |        |        |        |        |        |
| (100098 KG/M3)      | 2500   | 48.7   | 54.2   | 57.3   | 61.4   | 62.9   | 63.7   | 63.6   | 63.6   | 61.7   | 52.7   |        |        |        |        |        |
| MFA 5573. RPM       | 3150   | 47.6   | 53.9   | 56.7   | 60.4   | 63.4   | 63.4   | 63.5   | 62.9   | 61.7   | 51.5   |        |        |        |        |        |
| (1 503. RPM/SEC)    | 4000   | 45.6   | 52.7   | 56.3   | 59.7   | 61.9   | 62.9   | 63.7   | 63.0   | 59.7   | 51.7   |        |        |        |        |        |
| MFX 5622. RPM       | 5000   | 43.7   | 50.8   | 54.2   | 58.0   | 60.4   | 61.1   | 61.1   | 61.4   | 58.3   | 49.4   |        |        |        |        |        |
| (1 589. RPM/SEC)    | 6300   | 41.7   | 48.1   | 51.4   | 54.4   | 58.8   | 58.8   | 60.3   | 59.3   | 56.2   | 47.2   |        |        |        |        |        |
| MFD 8823. RPM       | 8000   | 39.0   | 45.4   | 48.8   | 51.5   | 55.9   | 55.0   | 57.3   | 56.8   | 53.9   | 44.0   |        |        |        |        |        |
| (1 824. RPM/SEC)    | 10000  | 37.0   | 42.5   | 46.5   | 51.0   | 53.4   | 54.3   | 54.1   | 54.0   | 51.1   | 40.7   |        |        |        |        |        |
| NO. OF BLADES 15    | 12579  | 33.3   | 38.6   | 42.6   | 46.9   | 51.1   | 50.6   | 51.4   | 51.6   | 48.2   | 34.4   |        |        |        |        |        |
| FAK TIP SPEED       | 16000  | 26.5   | 31.9   | 36.0   | 41.1   | 43.4   | 44.7   | 45.4   | 46.4   | 38.8   | 28.1   |        |        |        |        |        |
| 407. FT/SEC         | 20000  | 21.0   | 25.8   | 30.3   | 35.3   | 37.1   | 38.3   | 39.9   | 38.9   | 31.1   | 14.3   |        |        |        |        |        |
|                     | 25000  | 13.4   | 18.2   | 22.0   | 26.5   | 28.0   | 29.3   | 29.6   | 25.9   | 17.4   |        |        |        |        |        |        |
|                     | 31500  | 1.8    | 6.1    | 11.0   | 15.6   | 17.8   | 18.2   | 16.4   | 12.5   | 1.6    |        |        |        |        |        |        |
|                     | 40000  |        |        |        |        | 0.2    | 6.4    |        |        |        |        |        |        |        |        |        |
|                     | 50000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                     | 63000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                     | 80000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATION |        | 58.4   | 63.1   | 65.7   | 69.0   | 71.0   | 71.4   | 71.9   | 71.4   | 69.2   | 62.6   |        |        |        |        |        |
| PA38                |        | 70.7   | 76.2   | 78.9   | 82.4   | 84.8   | 85.1   | 85.5   | 84.9   | 83.1   | 75.6   |        |        |        |        |        |

NOVEL SCUMB PRESSURE LEVELS 100, LEG 7, 70 PERCENT REL. HUM. DATA

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                           | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0. | 0. | 0. | 0. | 0. | PRC   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|-------|
| PRUC                      | (1.02) | (1.10) | (1.36) | (1.53) | (1.71) | (1.90) | (2.00) | (2.20) | (2.42) | (2.66) | (2.70) | 0.   | 0. | 0. | 0. | 0. | 0. |       |
| RADIAL 17. FT.            | 100    | 07.3   | 06.0   | 73.2   | 72.1   | 70.3   | 69.0   | 67.9   | 67.0   | 73.2   | 74.0   | 77.0 |    |    |    |    |    | 108.0 |
| ( S. M)                   | 100    | 06.5   | 76.0   | 73.7   | 70.4   | 73.5   | 69.0   | 66.2   | 71.2   | 74.9   | 73.0   | 70.3 |    |    |    |    |    | 100.0 |
| VEHICLE R-55              | 100    | 05.5   | 00.0   | 00.0   | 07.1   | 07.0   | 00.5   | 70.7   | 71.0   | 70.4   | 70.9   | 77.1 |    |    |    |    |    | 108.2 |
| CONFIG 14A                | 200    | 06.0   | 00.7   | 71.7   | 68.4   | 70.0   | 71.5   | 72.4   | 73.0   | 77.2   | 77.2   | 70.0 |    |    |    |    |    | 107.0 |
| LOC SCHEMATIC             | 200    | 07.3   | 00.7   | 73.7   | 70.9   | 71.5   | 71.7   | 73.4   | 73.7   | 70.9   | 70.7   | 70.0 |    |    |    |    |    | 108.0 |
| DATE 12/10/74             | 200    | 06.3   | 04.5   | 74.4   | 71.4   | 72.3   | 73.0   | 72.4   | 73.2   | 70.9   | 70.4   | 70.1 |    |    |    |    |    | 107.3 |
| RUN 41/4                  | 400    | 07.3   | 04.0   | 74.9   | 70.0   | 71.5   | 73.0   | 73.4   | 73.9   | 70.7   | 70.2   | 70.0 |    |    |    |    |    | 107.0 |
| TAPE                      | 500    | 06.0   | 00.3   | 09.9   | 74.2   | 71.1   | 73.0   | 73.7   | 73.7   | 74.4   | 74.5   | 73.3 |    |    |    |    |    | 106.2 |
| GAR 29.0 MC               | 600    | 09.1   | 71.0   | 71.9   | 74.7   | 74.0   | 77.6   | 70.4   | 77.4   | 70.2   | 77.7   | 74.0 |    |    |    |    |    | 106.4 |
| (00707. R/M2)             | 600    | 70.4   | 72.0   | 73.7   | 74.4   | 73.3   | 77.3   | 77.6   | 79.4   | 79.4   | 77.6   | 74.0 |    |    |    |    |    | 110.3 |
| YARD 37. DEG F            | 1000   | 70.1   | 71.7   | 74.2   | 74.9   | 75.5   | 77.1   | 78.9   | 80.2   | 84.7   | 70.9   | 74.0 |    |    |    |    |    | 111.3 |
| (279. DEG A)              | 1200   | 72.1   | 70.0   | 77.4   | 70.7   | 82.0   | 83.3   | 85.2   | 85.7   | 87.2   | 84.7   | 70.0 |    |    |    |    |    | 110.0 |
| INLET 35. DEG F           | 1400   | 71.0   | 75.3   | 77.2   | 80.3   | 82.4   | 83.0   | 84.9   | 85.2   | 86.9   | 81.7   | 70.1 |    |    |    |    |    | 110.4 |
| (275. DEG A)              | 2000   | 71.9   | 70.1   | 70.7   | 81.3   | 83.7   | 84.0   | 85.1   | 84.4   | 83.9   | 81.3   | 70.3 |    |    |    |    |    | 110.3 |
| NACT 4.04 W/M3            | 2500   | 74.0   | 74.0   | 82.2   | 83.1   | 86.9   | 87.0   | 89.0   | 89.0   | 90.4   | 84.0   | 79.0 |    |    |    |    |    | 120.7 |
| (.50404 W/M3)             | 3100   | 73.0   | 70.0   | 80.9   | 83.0   | 86.2   | 87.1   | 88.4   | 89.1   | 89.7   | 83.0   | 79.3 |    |    |    |    |    | 116.0 |
| RFA 5473. RPH             | 4000   | 73.3   | 70.3   | 80.3   | 83.0   | 85.9   | 87.0   | 88.3   | 89.0   | 89.0   | 84.2   | 79.3 |    |    |    |    |    | 120.1 |
| ( 573. RPH/SEC)           | 5000   | 70.0   | 70.3   | 70.0   | 82.1   | 84.0   | 85.5   | 86.2   | 88.2   | 87.0   | 81.9   | 70.7 |    |    |    |    |    | 110.2 |
| RFA 5593. RPH             | 6000   | 70.3   | 75.3   | 77.7   | 81.4   | 83.0   | 84.5   | 86.0   | 87.5   | 88.0   | 81.1   | 70.3 |    |    |    |    |    | 117.0 |
| ( 500. RPH/SEC)           | 8000   | 68.7   | 73.7   | 70.0   | 80.4   | 82.2   | 83.4   | 85.5   | 86.0   | 86.7   | 80.1   | 70.0 |    |    |    |    |    | 110.0 |
| RFO 8023. RPH             | 10000  | 67.5   | 72.1   | 75.0   | 76.7   | 81.0   | 83.0   | 83.0   | 85.5   | 86.1   | 80.4   | 70.0 |    |    |    |    |    | 110.0 |
| ( 924. RPH/SEC)           | 12000  | 67.2   | 70.0   | 73.0   | 77.5   | 80.2   | 81.7   | 83.9   | 86.1   | 84.0   | 70.3   | 74.3 |    |    |    |    |    | 115.7 |
| NO. OF BLADES IS 12500    | 14000  | 65.2   | 66.7   | 71.2   | 75.2   | 78.1   | 79.9   | 82.0   | 83.7   | 82.9   | 70.4   | 72.1 |    |    |    |    |    | 113.0 |
| FAV TIP SPEED 470. FT/SEC | 20000  | 64.4   | 66.0   | 70.4   | 74.3   | 77.0   | 78.5   | 81.0   | 83.1   | 82.1   | 70.6   | 71.0 |    |    |    |    |    | 113.4 |
|                           | 25000  | 64.5   | 67.1   | 69.0   | 74.9   | 75.8   | 77.0   | 79.9   | 81.2   | 79.7   | 74.6   | 70.4 |    |    |    |    |    | 112.5 |
|                           | 31500  | 64.4   | 65.9   | 60.0   | 72.9   | 75.0   | 77.3   | 79.1   | 81.2   | 80.1   | 74.4   | 69.1 |    |    |    |    |    | 113.3 |
|                           | 40000  | 64.9   | 64.5   | 67.4   | 70.0   | 72.5   | 74.2   | 76.0   | 77.7   | 77.0   | 71.0   | 60.3 |    |    |    |    |    | 111.0 |
|                           | 50000  | 67.2   | 65.1   | 60.0   | 60.0   | 70.0   | 71.3   | 73.0   | 73.0   | 72.7   | 69.2   | 67.3 |    |    |    |    |    | 110.0 |
|                           | 63000  | 69.2   | 65.1   | 64.2   | 60.5   | 69.0   | 69.1   | 70.4   | 70.5   | 60.5   | 67.0   | 60.0 |    |    |    |    |    | 111.7 |
|                           | 80000  | 71.0   | 67.2   | 70.1   | 67.4   | 69.1   | 60.0   | 69.5   | 70.0   | 60.1   | 60.0   | 69.1 |    |    |    |    |    | 118.0 |
| OVERALL MEASURE           |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
| OVERALL CALCULATE         | 64.3   | 67.4   | 66.4   | 65.3   | 65.1   | 66.3   | 67.0   | 68.0   | 68.5   | 64.1   | 60.0   |      |    |    |    |    |    | 120.7 |
| PRUC                      | 96.0   | 101.1  | 103.7  | 100.1  | 100.1  | 100.5  | 110.0  | 111.0  | 111.0  | 107.1  | 103.1  |      |    |    |    |    |    |       |

MOLEC. SQUID PRESSURE LEVELS (50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 0. 0. 0. 0. 0. 0.)

ANGLES FROM INLET IN DEGREES (AMB. WALLS)

50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 0. 0. 0. 0. 0. 0.

|                    | 50.   | 60.  | 70.  | 80.  | 90.  | 100. | 110. | 120. | 130. | 140. | 150. | 0.   | 0. | 0. | 0. | 0. |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|
| SIGELINE 200. FT.  | 100   | 44.2 | 46.5 | 51.0 | 50.0 | 48.0 | 47.0 | 45.2 | 44.1 | 47.0 | 47.3 | 46.0 |    |    |    |    |
| VEHICLE            | 100   | 43.0 | 40.4 | 51.0 | 49.7 | 51.0 | 48.9 | 45.4 | 47.3 | 47.5 | 45.0 | 44.7 |    |    |    |    |
| CONFIC             | 100   | 42.3 | 44.3 | 47.0 | 45.4 | 48.0 | 48.3 | 47.0 | 47.9 | 47.0 | 48.4 | 45.2 |    |    |    |    |
| LOC                | 200   | 42.7 | 44.3 | 47.7 | 48.0 | 48.1 | 49.2 | 49.5 | 49.0 | 51.5 | 49.3 | 48.7 |    |    |    |    |
| DATE               | 200   | 43.9 | 48.2 | 51.0 | 49.0 | 49.0 | 49.4 | 50.4 | 49.5 | 50.1 | 47.0 | 44.2 |    |    |    |    |
| RLN                | 310   | 44.0 | 48.0 | 52.2 | 49.4 | 50.2 | 50.0 | 49.3 | 48.9 | 51.0 | 47.5 | 43.5 |    |    |    |    |
| TAPE               | 400   | 43.7 | 48.2 | 52.7 | 48.0 | 49.4 | 50.5 | 50.2 | 49.5 | 49.0 | 48.5 | 41.7 |    |    |    |    |
| RAM                | 500   | 43.1 | 45.4 | 47.0 | 48.0 | 48.0 | 51.2 | 50.3 | 49.2 | 48.2 | 48.1 | 46.2 |    |    |    |    |
| 100707. N/M21      | 600   | 45.5 | 48.0 | 49.5 | 51.4 | 52.2 | 54.0 | 53.6 | 52.0 | 51.0 | 48.7 | 41.0 |    |    |    |    |
| TAMP               | 800   | 46.4 | 48.9 | 51.1 | 52.1 | 52.9 | 54.5 | 54.3 | 54.0 | 54.0 | 48.7 | 41.9 |    |    |    |    |
| 1270. SEC K1       | 1000  | 46.0 | 48.5 | 51.5 | 51.4 | 52.7 | 54.1 | 55.2 | 55.2 | 55.9 | 46.4 | 48.4 |    |    |    |    |
| TRST               | 1200  | 47.9 | 52.7 | 54.0 | 57.1 | 59.0 | 60.2 | 61.3 | 60.5 | 60.2 | 54.9 | 44.6 |    |    |    |    |
| 1275. SEC N1       | 1800  | 47.2 | 51.8 | 54.2 | 57.5 | 59.5 | 60.3 | 60.0 | 59.4 | 59.7 | 51.0 | 41.0 |    |    |    |    |
| NACT               | 2000  | 47.2 | 52.3 | 55.5 | 58.3 | 60.0 | 61.1 | 60.9 | 59.0 | 58.4 | 50.0 | 48.7 |    |    |    |    |
| 1.64004 AG/M3      | 2500  | 49.7 | 55.0 | 58.0 | 61.9 | 63.7 | 64.0 | 65.1 | 64.1 | 62.7 | 53.2 | 43.4 |    |    |    |    |
| NFA                | 3100  | 48.4 | 54.4 | 57.2 | 60.4 | 62.7 | 63.2 | 63.9 | 62.9 | 61.5 | 52.0 | 42.3 |    |    |    |    |
| 1.573. N/M/SEC1    | 4000  | 47.0 | 53.0 | 56.3 | 60.0 | 62.0 | 63.4 | 63.0 | 63.1 | 60.0 | 52.0 | 41.4 |    |    |    |    |
| NFA                | 5000  | 44.0 | 51.3 | 54.5 | 58.0 | 60.5 | 60.9 | 60.7 | 61.2 | 58.4 | 49.2 | 37.0 |    |    |    |    |
| 1.500. NAD/SEC1    | 6000  | 43.5 | 49.0 | 52.7 | 56.7 | 58.1 | 59.1 | 59.0 | 59.0 | 58.5 | 47.0 | 35.5 |    |    |    |    |
| NFA                | 8000  | 43.0 | 48.9 | 50.0 | 54.0 | 56.2 | 56.9 | 57.9 | 56.7 | 54.7 | 43.0 | 31.0 |    |    |    |    |
| 1.024. NAD/SEC1    | 10000 | 37.0 | 43.0 | 47.0 | 51.4 | 53.5 | 54.9 | 54.5 | 54.2 | 51.0 | 41.0 | 28.0 |    |    |    |    |
| NO. OF BLADES      | 12000 | 34.7 | 39.9 | 43.7 | 48.0 | 50.5 | 51.3 | 52.1 | 52.0 | 47.0 | 34.7 | 18.0 |    |    |    |    |
| FAN TIP SPEED      | 16000 | 28.4 | 33.9 | 37.0 | 42.0 | 44.0 | 45.0 | 46.0 | 44.0 | 38.5 | 28.3 | 5.9  |    |    |    |    |
| 470. FT/SEC        | 20000 | 21.9 | 26.0 | 32.0 | 38.4 | 38.0 | 39.3 | 39.0 | 38.1 | 31.3 | 18.3 |      |    |    |    |    |
|                    | 25000 | 13.9 | 19.0 | 24.4 | 29.2 | 30.0 | 31.2 | 30.7 | 27.3 | 18.4 |      |      |    |    |    |    |
|                    | 31500 | 2.0  | 7.0  | 13.2 | 18.3 | 20.0 | 20.4 | 20.0 | 14.4 | 3.3  |      |      |    |    |    |    |
|                    | 40000 |      |      |      | 0.0  | 2.0  | 1.0  |      |      |      |      |      |    |    |    |    |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
|                    | 60000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
| OVERALL CALCULATED |       | 58.0 | 63.5 | 66.0 | 69.1 | 71.0 | 71.7 | 72.0 | 71.4 | 70.0 | 62.0 | 50.0 |    |    |    |    |
| FROM               |       | 71.0 | 78.0 | 80.1 | 82.7 | 84.5 | 85.3 | 85.7 | 84.5 | 83.0 | 78.5 | 66.2 |    |    |    |    |



CC

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

PRNG. DATE = MUMIN 3 LAT 10 PM, 12.0

MODEL SCHEM PRESSURE LEVELS 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000

ANGLES FROM INLET IN DEGREES (SAME WALLS)

|                        | 50.   | 70.  | 90.  | 110.  | 120.  | 130.  | 140.  | 150.  | 160.  | 170.  | 180.  | 190.  | 200.  |
|------------------------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| VEHICLE                | 100   | 51.2 | 55.0 | 58.0  | 60.7  | 63.4  | 66.1  | 68.8  | 71.5  | 74.2  | 76.9  | 79.6  | 82.3  |
| CE-FIG                 | 100   | 45.0 | 48.3 | 51.6  | 54.9  | 58.2  | 61.5  | 64.8  | 68.1  | 71.4  | 74.7  | 78.0  | 81.3  |
| LOC SCHEMATIC          | 200   | 46.2 | 49.7 | 53.1  | 56.5  | 59.9  | 63.3  | 66.7  | 70.1  | 73.5  | 76.9  | 80.3  | 83.7  |
| DATE 12/10/74          | 250   | 47.0 | 51.1 | 55.0  | 58.9  | 62.8  | 66.7  | 70.6  | 74.5  | 78.4  | 82.3  | 86.2  | 90.1  |
| RUN 4175               | 310   | 48.3 | 51.7 | 55.3  | 58.8  | 62.3  | 65.8  | 69.3  | 72.8  | 76.3  | 79.8  | 83.3  | 86.8  |
| TARE                   | 400   | 47.4 | 50.4 | 53.4  | 56.4  | 59.4  | 62.4  | 65.4  | 68.4  | 71.4  | 74.4  | 77.4  | 80.4  |
| BAR 20.0 MC            | 500   | 46.1 | 49.1 | 52.1  | 55.1  | 58.1  | 61.1  | 64.1  | 67.1  | 70.1  | 73.1  | 76.1  | 79.1  |
| 100/27. 2/721          | 600   | 46.4 | 52.0 | 55.2  | 58.7  | 62.1  | 65.5  | 68.9  | 72.3  | 75.7  | 79.1  | 82.5  | 85.9  |
| TARE 37. SEC F         | 650   | 49.1 | 53.1 | 56.9  | 60.7  | 64.5  | 68.3  | 72.1  | 75.9  | 79.7  | 83.5  | 87.3  | 91.1  |
| 1270. SEC M            | 1000  | 48.3 | 53.7 | 58.7  | 63.7  | 68.7  | 73.7  | 78.7  | 83.7  | 88.7  | 93.7  | 98.7  | 103.7 |
| Y-ET 35. SEC F         | 1200  | 48.0 | 54.3 | 59.4  | 64.5  | 69.6  | 74.7  | 79.8  | 84.9  | 90.0  | 95.1  | 100.2 | 105.3 |
| 1275. SEC M            | 1300  | 52.7 | 59.9 | 63.3  | 66.6  | 70.0  | 73.3  | 76.7  | 80.0  | 83.3  | 86.7  | 90.0  | 93.3  |
| MACT 6.00 1/4" M3      | 2000  | 50.7 | 58.5 | 63.3  | 68.0  | 72.7  | 77.4  | 82.1  | 86.8  | 91.5  | 96.2  | 100.9 | 105.6 |
| (.00000 1/4" M3)       | 2500  | 51.4 | 56.0 | 60.7  | 65.3  | 69.9  | 74.5  | 79.1  | 83.7  | 88.3  | 92.9  | 97.5  | 102.1 |
| MFA 0430. RPM          | 3100  | 52.4 | 57.2 | 62.0  | 66.7  | 71.4  | 76.1  | 80.8  | 85.5  | 90.2  | 94.9  | 99.6  | 104.3 |
| ( 055. 443/SEC)        | 4000  | 58.4 | 60.0 | 65.2  | 70.3  | 75.4  | 80.5  | 85.6  | 90.7  | 95.8  | 100.9 | 106.0 | 111.1 |
| MFA 0503. RPM          | 5000  | 49.3 | 50.3 | 54.7  | 59.7  | 64.7  | 69.7  | 74.7  | 79.7  | 84.7  | 89.7  | 94.7  | 99.7  |
| ( 070. 443/SEC)        | 6000  | 47.0 | 50.9 | 54.1  | 57.9  | 61.7  | 65.5  | 69.3  | 73.1  | 76.9  | 80.7  | 84.5  | 88.3  |
| MFA 0823. RPM          | 8000  | 44.1 | 55.1 | 64.2  | 73.2  | 82.2  | 91.2  | 100.2 | 109.2 | 118.2 | 127.2 | 136.2 | 145.2 |
| ( 020. 443/SEC)        | 10000 | 41.1 | 52.4 | 61.0  | 69.2  | 77.4  | 85.6  | 93.8  | 102.0 | 110.2 | 118.4 | 126.6 | 134.8 |
| NO. OF BLADES IS 12000 | 30.4  | 40.7 | 50.2 | 59.3  | 68.3  | 77.3  | 86.3  | 95.3  | 104.3 | 113.3 | 122.3 | 131.3 | 140.3 |
| FAN 11" SPEED          | 10000 | 31.1 | 42.4 | 50.0  | 57.0  | 64.0  | 71.0  | 78.0  | 85.0  | 92.0  | 99.0  | 106.0 | 113.0 |
| 500. FT/SEC            | 20000 | 24.7 | 30.7 | 35.3  | 40.0  | 44.6  | 49.1  | 53.7  | 58.2  | 62.8  | 67.3  | 71.9  | 76.4  |
|                        | 25000 | 15.9 | 20.7 | 25.3  | 30.7  | 35.0  | 39.3  | 43.7  | 48.0  | 52.3  | 56.7  | 61.0  | 65.4  |
|                        | 31000 | 3.5  | 10.0 | 20.0  | 28.0  | 36.0  | 44.0  | 52.0  | 60.0  | 68.0  | 76.0  | 84.0  | 92.0  |
|                        | 40000 |      | 0.0  | 0.0   | 3.0   |       |       |       |       |       |       |       |       |
|                        | 50000 |      |      |       |       |       |       |       |       |       |       |       |       |
|                        | 60000 |      |      |       |       |       |       |       |       |       |       |       |       |
|                        | 70000 |      |      |       |       |       |       |       |       |       |       |       |       |
|                        | 80000 |      |      |       |       |       |       |       |       |       |       |       |       |
|                        | 90000 |      |      |       |       |       |       |       |       |       |       |       |       |
| Overall CALCULATED     | 02.2  | 09.0 | 24.3 | 39.2  | 54.0  | 68.8  | 83.6  | 98.4  | 113.2 | 128.0 | 142.8 | 157.6 | 172.4 |
| PH30                   | 70.1  | 83.0 | 96.0 | 109.0 | 122.0 | 135.0 | 148.0 | 161.0 | 174.0 | 187.0 | 200.0 | 213.0 | 226.0 |

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OF POOR QUALITY



MODEL SOUND PRESSURE LEVELS (5% LEGS TO 70 PERCENT REL. HUM, DAT)

ANGLES FROM INLET IN DEGREES (ANG. RADIAN)

| FREQ                | ANGLE |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |       |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-------|
|                     | 58.   | 68.   | 78.   | 88.   | 98.   | 108.  | 118.  | 128.  | 138.  | 148.  | 158.  | 0.    | 0. | 0. | 0. | 0. |       |
| RADIAL 17. FT.      | 100   | 07.5  | 71.0  | 72.2  | 73.0  | 74.0  | 76.0  | 73.2  | 73.4  | 76.9  | 81.0  | 85.3  |    |    |    |    | 110.7 |
| VEHICLE (S, M) R=55 | 145   | 72.0  | 77.3  | 77.2  | 77.1  | 77.8  | 79.5  | 79.4  | 77.9  | 79.2  | 81.4  | 84.0  |    |    |    |    | 112.4 |
| CONFIG 14A          | 100   | 72.0  | 73.3  | 73.2  | 73.1  | 74.3  | 80.5  | 77.2  | 78.4  | 80.4  | 83.7  | 85.1  |    |    |    |    | 112.5 |
| LCC SCHEMECTADY     | 200   | 71.0  | 72.0  | 73.2  | 75.1  | 76.5  | 82.2  | 78.4  | 80.7  | 81.4  | 84.4  | 89.0  |    |    |    |    | 113.7 |
| DATE 12/16/74       | 250   | 74.3  | 75.2  | 77.2  | 79.1  | 79.8  | 83.7  | 80.9  | 81.4  | 82.0  | 83.9  | 84.0  |    |    |    |    | 114.0 |
| RUN 41/6            | 315   | 75.0  | 75.7  | 77.2  | 78.1  | 78.8  | 79.5  | 80.2  | 80.4  | 81.7  | 83.7  | 84.0  |    |    |    |    | 113.7 |
| TAPE                | 400   | 74.1  | 74.2  | 75.2  | 76.0  | 77.3  | 85.0  | 79.2  | 79.9  | 80.7  | 82.2  | 82.0  |    |    |    |    | 113.0 |
| BAR 29.8 HG         | 500   | 72.0  | 72.8  | 74.4  | 75.9  | 77.3  | 80.3  | 79.7  | 79.9  | 80.2  | 81.4  | 81.3  |    |    |    |    | 112.3 |
| (106707, 4/M2)      | 630   | 74.1  | 75.3  | 76.9  | 78.9  | 80.3  | 81.5  | 82.2  | 82.4  | 83.4  | 83.0  | 81.1  |    |    |    |    | 114.0 |
| TANG 37. DEG F      | 800   | 75.1  | 76.5  | 77.9  | 80.4  | 81.1  | 82.5  | 82.9  | 84.2  | 83.7  | 84.4  | 80.0  |    |    |    |    | 115.3 |
| (276. DEG K)        | 1000  | 74.9  | 76.2  | 76.2  | 79.6  | 80.0  | 82.5  | 83.4  | 85.2  | 84.9  | 81.9  | 79.0  |    |    |    |    | 115.0 |
| THET 35. DEG F      | 1200  | 75.1  | 77.5  | 79.4  | 80.9  | 83.3  | 84.8  | 86.7  | 88.9  | 88.2  | 82.0  | 80.3  |    |    |    |    | 117.0 |
| (275. DEG K)        | 1600  | 78.0  | 81.0  | 86.4  | 86.2  | 89.1  | 89.3  | 91.2  | 91.9  | 91.4  | 85.7  | 81.0  |    |    |    |    | 122.0 |
| HACT 4.84 GM/M3     | 2000  | 79.4  | 83.1  | 87.2  | 89.5  | 90.9  | 91.0  | 92.4  | 94.4  | 90.9  | 88.0  | 83.1  |    |    |    |    | 123.7 |
| (1.00484 KG/M3)     | 2500  | 78.0  | 83.0  | 87.2  | 90.3  | 91.4  | 92.1  | 91.9  | 93.1  | 91.2  | 88.0  | 81.0  |    |    |    |    | 124.0 |
| NFA 7035. RPM       | 3150  | 79.9  | 85.1  | 87.0  | 91.1  | 92.7  | 94.1  | 94.4  | 95.4  | 93.9  | 89.5  | 84.0  |    |    |    |    | 126.0 |
| ( 737. RAD/SEC)     | 4000  | 80.3  | 85.0  | 88.3  | 91.5  | 93.2  | 95.0  | 95.0  | 96.0  | 94.0  | 89.2  | 84.0  |    |    |    |    | 129.7 |
| NFA 7189. RPM       | 5000  | 79.3  | 84.3  | 87.8  | 91.0  | 91.9  | 94.2  | 94.5  | 95.5  | 92.0  | 87.4  | 83.2  |    |    |    |    | 129.0 |
| ( 753. RAD/SEC)     | 6300  | 78.0  | 82.1  | 86.0  | 89.1  | 90.5  | 92.2  | 93.0  | 94.6  | 91.1  | 86.9  | 82.4  |    |    |    |    | 124.4 |
| NFB 8823. RPM       | 8000  | 75.7  | 81.2  | 85.0  | 88.1  | 89.4  | 91.2  | 93.0  | 93.8  | 90.5  | 85.0  | 81.4  |    |    |    |    | 123.7 |
| ( 924. RAD/SEC)     | 10000 | 75.3  | 80.0  | 84.8  | 87.9  | 89.5  | 90.5  | 92.0  | 93.5  | 91.1  | 86.1  | 81.3  |    |    |    |    | 123.7 |
| NO. OF BLADES 15    | 12500 | 74.2  | 79.0  | 83.1  | 87.0  | 88.4  | 89.2  | 91.7  | 92.9  | 89.0  | 85.0  | 80.0  |    |    |    |    | 122.0 |
| FAN TIP SPEED       | 16000 | 71.0  | 76.4  | 80.5  | 83.1  | 85.9  | 87.6  | 89.8  | 91.2  | 88.0  | 82.1  | 77.0  |    |    |    |    | 121.0 |
| 614. FT/SEC         | 20000 | 71.2  | 75.5  | 79.7  | 82.8  | 85.9  | 87.0  | 89.5  | 91.0  | 87.0  | 82.2  | 77.4  |    |    |    |    | 121.0 |
|                     | 25000 | 70.2  | 74.3  | 78.1  | 82.3  | 84.0  | 85.6  | 87.6  | 88.9  | 86.2  | 81.0  | 75.7  |    |    |    |    | 120.2 |
|                     | 31500 | 70.2  | 74.0  | 78.3  | 82.1  | 84.3  | 86.0  | 87.4  | 88.9  | 86.1  | 80.4  | 74.1  |    |    |    |    | 121.2 |
|                     | 40000 | 68.7  | 71.5  | 75.2  | 79.4  | 81.0  | 83.7  | 85.1  | 85.5  | 83.5  | 78.4  | 76.0  |    |    |    |    | 119.9 |
|                     | 50000 | 69.0  | 68.1  | 73.1  | 77.9  | 80.8  | 81.0  | 81.3  | 81.0  | 79.4  | 76.0  | 69.0  |    |    |    |    | 118.7 |
|                     | 63000 | 69.9  | 65.4  | 70.5  | 77.0  | 80.3  | 79.3  | 75.4  | 74.3  | 73.3  | 70.0  | 69.1  |    |    |    |    | 116.5 |
|                     | 80000 | 71.0  | 67.7  | 70.6  | 77.1  | 79.6  | 79.0  | 71.0  | 70.5  | 70.1  | 69.0  | 69.3  |    |    |    |    | 121.7 |
| OVERALL MEASURED    |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |       |
| OVERALL CALCULATED  |       | 90.2  | 94.1  | 97.4  | 100.4 | 101.0 | 103.3 | 104.1 | 105.1 | 103.0 | 99.1  | 96.6  |    |    |    |    | 136.1 |
| PAWS                |       | 103.3 | 107.7 | 110.5 | 110.3 | 114.7 | 116.6 | 116.7 | 117.7 | 116.3 | 112.2 | 100.0 |    |    |    |    |       |

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|                    |       | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.  | 0. | 0. | 0. | 0. | 0.  |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|----|----|----|----|-----|
|                    |       | (1.02) | (1.19) | (1.30) | (1.53) | (1.71) | (1.88) | (2.00) | (2.24) | (2.42) | (2.60) | (2.70) | (0. | 0. | 0. | 0. | 0. | 0.) |
|                    |       | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0   | 0  | 0  | 0  | 0  | 0   |
| SIDELINE 200. FT.  |       | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0   | 0  | 0  | 0  | 0  | 0   |
| ( 60.96 F)         | 100   | 44.5   | 49.3   | 50.4   | 52.0   | 52.4   | 56.3   | 50.5   | 49.0   | 51.0   | 54.3   | 53.9   |     |    |    |    |    |     |
| VEHICLE R-55       | 120   | 49.4   | 54.4   | 55.3   | 55.4   | 56.0   | 57.4   | 52.7   | 54.0   | 54.7   | 53.0   | 54.6   |     |    |    |    |    |     |
| CONFIG 14A         | 100   | 46.8   | 50.0   | 51.3   | 53.4   | 52.9   | 50.3   | 54.3   | 54.4   | 54.0   | 55.7   | 53.2   |     |    |    |    |    |     |
| LOC SCHEVECTADY    | 200   | 48.2   | 49.5   | 51.2   | 53.3   | 54.0   | 60.0   | 55.5   | 50.0   | 55.7   | 50.3   | 54.2   |     |    |    |    |    |     |
| DATE 12/16/74      | 250   | 50.4   | 52.7   | 55.1   | 57.2   | 57.0   | 61.4   | 57.4   | 57.2   | 50.0   | 55.0   | 52.0   |     |    |    |    |    |     |
| RUN 41/0           | 310   | 52.0   | 53.1   | 55.0   | 56.1   | 56.7   | 57.0   | 57.0   | 50.1   | 55.7   | 55.2   | 52.0   |     |    |    |    |    |     |
| TAPE               | 400   | 50.4   | 51.5   | 52.9   | 54.5   | 55.1   | 62.5   | 55.9   | 55.5   | 54.0   | 53.5   | 49.7   |     |    |    |    |    |     |
| BAR 20.0 HG        | 500   | 49.1   | 49.4   | 52.1   | 53.7   | 55.1   | 57.0   | 50.3   | 55.4   | 53.4   | 52.0   | 48.2   |     |    |    |    |    |     |
| (00707. R/M2)      | 600   | 50.3   | 52.3   | 54.5   | 56.0   | 56.0   | 58.0   | 56.7   | 57.0   | 57.0   | 53.9   | 47.0   |     |    |    |    |    |     |
| TAMB 37. DEG F     | 600   | 51.1   | 53.4   | 55.3   | 56.0   | 56.0   | 54.7   | 54.3   | 54.4   | 57.1   | 53.4   | 47.4   |     |    |    |    |    |     |
| (276. DEG K)       | 1000  | 50.7   | 53.0   | 55.5   | 57.1   | 58.0   | 59.0   | 59.7   | 66.2   | 58.2   | 52.4   | 45.7   |     |    |    |    |    |     |
| TNET 35. DEG F     | 1200  | 50.9   | 54.2   | 56.0   | 59.3   | 60.0   | 61.7   | 62.0   | 61.0   | 59.2   | 52.7   | 45.0   |     |    |    |    |    |     |
| (275. DEG K)       | 1600  | 54.2   | 56.0   | 63.4   | 65.4   | 66.3   | 60.0   | 67.1   | 60.0   | 64.2   | 50.0   | 40.0   |     |    |    |    |    |     |
| MACT 4.84 W/M3     | 2000  | 54.7   | 54.3   | 64.0   | 66.5   | 67.8   | 66.1   | 60.1   | 60.0   | 63.4   | 50.3   | 47.5   |     |    |    |    |    |     |
| (.00004 KG/M3)     | 2500  | 53.7   | 59.0   | 63.0   | 67.1   | 68.2   | 68.4   | 67.4   | 67.3   | 63.4   | 55.2   | 45.4   |     |    |    |    |    |     |
| NFA 7035. RPM      | 3100  | 54.7   | 64.9   | 64.0   | 67.0   | 69.2   | 70.1   | 64.5   | 69.2   | 65.7   | 56.1   | 47.0   |     |    |    |    |    |     |
| ( 737. RAD/SEC)    | 4000  | 54.0   | 61.1   | 64.3   | 67.7   | 69.2   | 70.7   | 69.8   | 69.3   | 65.0   | 57.0   | 40.5   |     |    |    |    |    |     |
| NFA 7189. RPM      | 5000  | 53.3   | 54.3   | 63.5   | 66.9   | 67.7   | 64.0   | 68.9   | 68.5   | 63.0   | 54.7   | 44.3   |     |    |    |    |    |     |
| ( 753. RAD/SEC)    | 6000  | 50.0   | 50.4   | 61.9   | 64.4   | 65.0   | 66.9   | 66.0   | 66.9   | 60.0   | 52.0   | 41.3   |     |    |    |    |    |     |
| NFA 8023. RPM      | 6000  | 47.0   | 54.4   | 58.9   | 62.3   | 63.5   | 64.6   | 63.4   | 64.4   | 50.0   | 40.3   | 37.1   |     |    |    |    |    |     |
| ( 924. RAD/SEC)    | 10000 | 45.3   | 52.1   | 57.1   | 60.0   | 62.0   | 62.4   | 63.5   | 62.2   | 50.0   | 40.0   | 32.0   |     |    |    |    |    |     |
| NO. OF BLADES 19   | 12000 | 41.7   | 44.1   | 53.2   | 57.4   | 58.7   | 56.7   | 59.0   | 54.7   | 51.0   | 41.2   | 25.2   |     |    |    |    |    |     |
| PAW TIP SPEED      | 10000 | 34.0   | 41.7   | 40.9   | 50.0   | 52.5   | 53.3   | 53.0   | 52.3   | 43.2   | 31.0   | 11.7   |     |    |    |    |    |     |
| 014. FT/SEC        | 20000 | 28.7   | 35.0   | 41.2   | 44.9   | 47.0   | 47.7   | 48.1   | 46.0   | 30.0   | 21.5   |        |     |    |    |    |    |     |
|                    | 25000 | 19.0   | 27.0   | 32.7   | 37.0   | 39.1   | 39.2   | 38.5   | 35.1   | 24.9   | 0.7    |        |     |    |    |    |    |     |
|                    | 31500 | 7.6    | 10.0   | 22.7   | 27.5   | 29.3   | 29.1   | 26.0   | 22.2   | 0.3    |        |        |     |    |    |    |    |     |
|                    | 40000 |        |        | 4.5    | 10.1   | 11.0   | 11.2   | 7.7    |        |        |        |        |     |    |    |    |    |     |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| OVERALL CALCULATED |       | 64.0   | 69.5   | 73.1   | 76.1   | 77.3   | 76.4   | 77.9   | 77.5   | 73.9   | 67.9   | 62.0   |     |    |    |    |    |     |
| PA20               |       | 77.0   | 83.2   | 80.0   | 89.7   | 91.0   | 92.3   | 91.0   | 91.1   | 87.7   | 80.9   | 72.1   |     |    |    |    |    |     |

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MODEL SOUND PRESSURE LEVELS (59. DEG. F., 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (ANG. RADIAN)

| FREQ. (1.02) (1.19) (1.36) (1.53) (1.71) (1.88) (2.06) (2.24) (2.42) (2.60) (2.78) (3.0) (3.18) (3.36) (3.54) (3.72) (3.90) (4.08) | 59.   | 66.   | 73.   | 80.   | 88.   | 96.   | 104.  | 112.  | 120.  | 138.  | 149.  | 159.  | 0. |    |    |    |    |    | 113.0 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|-------|
|  |       |       |       |       |       |       |       |       |       |       |       |       | 0. |    |    |    |    |    |       |
|  |       |       |       |       |       |       |       |       |       |       |       |       | 0. | 0. | 0. | 0. | 0. | 0. |       |
| RADIAL 17. FT.   | 100   | 69.0  | 73.2  | 80.9  | 74.0  | 75.3  | 76.2  | 76.4  | 77.1  | 80.1  | 85.7  | 86.0  |    |    |    |    |    |    | 113.0 |
| ( 5. M )   | 125   | 74.5  | 75.7  | 76.1  | 77.3  | 79.3  | 78.5  | 79.7  | 81.4  | 82.0  | 85.7  | 86.3  |    |    |    |    |    |    | 114.0 |
| VEHICLE R-55   | 150   | 74.5  | 76.4  | 84.9  | 77.1  | 77.5  | 78.0  | 80.2  | 81.9  | 83.6  | 87.2  | 88.0  |    |    |    |    |    |    | 116.1 |
| CONFIG 14A   | 200   | 73.6  | 74.4  | 83.1  | 77.3  | 79.8  | 80.7  | 81.9  | 83.9  | 84.6  | 88.2  | 89.1  |    |    |    |    |    |    | 116.7 |
| LOC SCHENECTADY  | 250   | 77.8  | 79.2  | 80.4  | 82.5  | 83.0  | 84.0  | 85.7  | 86.1  | 86.3  | 88.7  | 89.3  |    |    |    |    |    |    | 119.0 |
| DATE 12/16/74  | 315   | 78.3  | 78.9  | 88.9  | 81.1  | 81.3  | 82.0  | 82.9  | 84.1  | 84.8  | 86.9  | 87.0  |    |    |    |    |    |    | 118.1 |
| RUN 41/7   | 450   | 77.1  | 77.9  | 79.6  | 79.8  | 80.5  | 81.0  | 82.4  | 83.4  | 84.1  | 86.2  | 87.1  |    |    |    |    |    |    | 116.0 |
| TAP6   | 500   | 76.3  | 76.2  | 77.9  | 78.6  | 79.8  | 80.3  | 82.4  | 83.1  | 83.6  | 84.9  | 85.1  |    |    |    |    |    |    | 115.1 |
| BAW 29.8 MG  | 600   | 76.6  | 76.5  | 82.4  | 81.1  | 82.1  | 83.5  | 84.4  | 85.1  | 85.8  | 85.9  | 84.8  |    |    |    |    |    |    | 117.1 |
| ( 00707. M/M2 )  | 800   | 78.1  | 80.4  | 81.9  | 84.4  | 83.3  | 84.0  | 85.7  | 86.9  | 86.1  | 85.4  | 84.8  |    |    |    |    |    |    | 117.0 |
| TAP6 30. DEG F   | 1000  | 77.4  | 78.9  | 81.9  | 82.1  | 82.8  | 84.5  | 86.1  | 87.4  | 86.6  | 84.4  | 82.0  |    |    |    |    |    |    | 118.0 |
| ( 1279. DEG K )  | 1250  | 77.9  | 79.7  | 81.9  | 83.4  | 85.6  | 87.1  | 89.1  | 89.1  | 90.1  | 85.0  | 83.1  |    |    |    |    |    |    | 119.0 |
| TNET 35. DEG F   | 1500  | 78.1  | 81.2  | 84.4  | 87.2  | 89.1  | 90.1  | 90.9  | 90.9  | 89.9  | 85.9  | 83.1  |    |    |    |    |    |    | 122.1 |
| ( 1275. DEG K )  | 2000  | 83.2  | 86.5  | 90.9  | 94.8  | 96.2  | 97.4  | 97.4  | 97.9  | 95.4  | 90.8  | 87.8  |    |    |    |    |    |    | 128.0 |
| MACT 4.54 MG/M3  | 2500  | 81.4  | 86.3  | 89.9  | 93.3  | 94.2  | 94.6  | 95.1  | 95.8  | 92.6  | 88.0  | 84.0  |    |    |    |    |    |    | 129.7 |
| ( 100454 MG/M3 )   | 3150  | 81.1  | 86.8  | 90.4  | 93.7  | 94.9  | 95.3  | 95.1  | 95.6  | 93.4  | 89.3  | 85.1  |    |    |    |    |    |    | 127.4 |
| NFA 7815. RPM  | 4000  | 83.3  | 89.6  | 92.5  | 95.6  | 97.4  | 98.3  | 98.8  | 99.6  | 96.3  | 92.2  | 88.5  |    |    |    |    |    |    | 130.2 |
| ( 815. RPM/SEC )   | 5000  | 81.6  | 87.5  | 91.0  | 94.0  | 95.1  | 96.5  | 97.0  | 97.4  | 93.3  | 89.6  | 85.0  |    |    |    |    |    |    | 128.2 |
| NFA 7978. RPM  | 6000  | 80.6  | 86.1  | 89.0  | 92.2  | 94.5  | 96.3  | 96.6  | 97.6  | 94.8  | 89.4  | 85.1  |    |    |    |    |    |    | 127.6 |
| ( 835. RPM/SEC )   | 8000  | 74.3  | 85.2  | 89.0  | 92.2  | 93.0  | 94.9  | 96.3  | 97.0  | 92.4  | 88.6  | 83.7  |    |    |    |    |    |    | 127.1 |
| NFD 8823. RPM  | 10000 | 74.3  | 85.8  | 89.5  | 91.7  | 93.3  | 94.5  | 96.3  | 97.0  | 93.1  | 88.7  | 83.6  |    |    |    |    |    |    | 127.3 |
| ( 924. RPM/SEC )   | 12500 | 77.7  | 83.7  | 87.6  | 91.1  | 92.7  | 93.5  | 95.7  | 96.6  | 91.8  | 87.0  | 82.9  |    |    |    |    |    |    | 126.7 |
| NO. OF BLADES IS 125   | 15000 | 75.2  | 81.2  | 84.7  | 87.5  | 89.9  | 91.2  | 92.1  | 94.2  | 89.1  | 85.0  | 80.9  |    |    |    |    |    |    | 126.4 |
| FAN TIP SPEED 187  | 20000 | 74.8  | 80.8  | 84.2  | 86.9  | 88.5  | 89.8  | 92.5  | 94.8  | 89.8  | 85.7  | 81.9  |    |    |    |    |    |    | 126.7 |
| 642. FT/SEC  | 25000 | 73.9  | 79.7  | 83.0  | 85.8  | 87.5  | 88.8  | 92.2  | 93.6  | 89.4  | 84.6  | 80.7  |    |    |    |    |    |    | 126.7 |
|  | 31500 | 74.1  | 79.4  | 82.8  | 85.9  | 88.1  | 89.5  | 91.4  | 91.9  | 88.0  | 83.7  | 79.1  |    |    |    |    |    |    | 126.7 |
|  | 40000 | 72.2  | 77.7  | 80.9  | 83.7  | 85.2  | 87.4  | 89.1  | 88.9  | 86.1  | 81.1  | 76.0  |    |    |    |    |    |    | 123.9 |
|  | 50000 | 84.9  | 75.9  | 79.8  | 79.0  | 82.2  | 83.8  | 84.0  | 84.9  | 82.8  | 78.4  | 73.2  |    |    |    |    |    |    | 121.9 |
|  | 60000 | 84.5  | 74.4  | 78.0  | 77.0  | 80.1  | 81.6  | 81.6  | 79.5  | 76.8  | 72.9  | 68.4  |    |    |    |    |    |    | 121.4 |
|  | 80000 | 71.5  | 75.8  | 74.8  | 77.8  | 78.3  | 78.5  | 79.2  | 78.7  | 77.7  | 75.6  | 69.1  |    |    |    |    |    |    | 124.2 |
| OVERALL MEASUREMENTS:  |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |       |
| OVERALL CALCULATED:  |       | 92.7  | 97.4  | 101.4 | 103.4 | 105.3 | 107.5 | 107.4 | 108.2 | 104.4 | 101.6 | 100.0 |    |    |    |    |    |    | 130.8 |
| PHOC   |       | 106.0 | 111.1 | 114.5 | 116.0 | 117.7 | 119.3 | 119.9 | 120.6 | 117.9 | 114.8 | 112.9 |    |    |    |    |    |    |       |



PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 3 DAY 18 HR. 12.5

MODEL SOUND PRESSURE LEVELS (99.7% NEG. F., 70 PERCENT REL. HUM., DAY)  
ANGLES FROM (NET) IN DEGREES (AND RADIANS)

|                   | 0A.    | 0A.    | 70.    | 0A.    | 0A.    | 10A.   | 11A.   | 10A.   | 130.   | 140.   | 150.   | 0.  | 0.  | 0.  | 0.  | 0.  | PBL   |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-------|
|                   | (1.05) | (1.07) | (1.12) | (1.15) | (1.21) | (1.27) | (1.37) | (1.46) | (1.58) | (1.64) | (1.72) | (0. | (0. | (0. | (0. | (0. | )     |
| WINDIAL 17. FT.   | 72.2   | 73.4   | 75.4   | 75.1   | 74.5   | 76.6   | 78.2   | 77.4   | 80.3   | 85.2   | 88.8   |     |     |     |     |     | 113.5 |
| VEHICLE           | 74.0   | 77.2   | 77.6   | 77.3   | 78.8   | 78.3   | 81.2   | 81.4   | 83.1   | 85.4   | 88.1   |     |     |     |     |     | 116.9 |
| CONFIG 14A        | 74.1   | 75.5   | 74.1   | 76.6   | 78.0   | 78.0   | 81.2   | 81.9   | 84.3   | 88.7   | 89.1   |     |     |     |     |     | 115.4 |
| LOC SCHEMATIC     | 74.0   | 75.4   | 74.4   | 77.3   | 78.9   | 78.7   | 83.2   | 83.9   | 84.8   | 87.7   | 89.3   |     |     |     |     |     | 116.4 |
| DATE 12/10/74     | 74.0   | 74.0   | 81.1   | 82.3   | 82.8   | 84.2   | 86.3   | 89.1   | 88.1   | 87.7   | 89.1   |     |     |     |     |     | 116.4 |
| HUM 41/4          | 74.0   | 77.5   | 74.0   | 81.1   | 81.5   | 82.2   | 83.7   | 85.6   | 84.8   | 88.7   | 87.8   |     |     |     |     |     | 116.9 |
| TAPE              | 77.1   | 77.7   | 74.9   | 79.3   | 81.7   | 80.5   | 83.7   | 83.8   | 87.3   | 88.2   | 88.8   |     |     |     |     |     | 116.6 |
| 04 29.4           | 74.1   | 77.2   | 77.4   | 74.4   | 81.7   | 80.5   | 82.2   | 83.9   | 85.3   | 88.2   | 88.8   |     |     |     |     |     | 115.5 |
| (90737, 1712)     | 74.1   | 77.7   | 74.6   | 81.4   | 84.1   | 83.2   | 84.7   | 86.4   | 86.8   | 88.7   | 84.8   |     |     |     |     |     | 117.3 |
| 14 1A 20.0        | 74.4   | 79.2   | 81.9   | 83.1   | 82.1   | 83.8   | 85.7   | 86.8   | 86.3   | 84.7   | 84.4   |     |     |     |     |     | 118.3 |
| (274, 20.0)       | 77.4   | 79.2   | 82.9   | 81.6   | 82.8   | 84.3   | 85.4   | 87.1   | 87.1   | 84.4   | 88.8   |     |     |     |     |     | 117.9 |
| 14 1A 20.0        | 77.9   | 79.5   | 81.4   | 82.7   | 83.8   | 84.8   | 89.1   | 89.1   | 88.1   | 84.7   | 83.3   |     |     |     |     |     | 119.7 |
| (274, 20.0)       | 77.1   | 81.7   | 83.9   | 82.8   | 84.8   | 87.7   | 89.4   | 89.9   | 88.1   | 84.7   | 88.3   |     |     |     |     |     | 121.9 |
| HCT 5.00          | 77.1   | 80.7   | 80.6   | 84.8   | 84.4   | 87.8   | 87.6   | 87.9   | 85.1   | 86.5   | 87.8   |     |     |     |     |     | 120.9 |
| (10000, 5.00)     | 81.4   | 80.4   | 80.4   | 88.9   | 88.9   | 84.8   | 84.8   | 88.8   | 88.9   | 88.8   | 84.8   |     |     |     |     |     | 120.5 |
| WFA 7417          | 81.4   | 80.4   | 81.3   | 83.1   | 84.7   | 85.3   | 85.1   | 86.8   | 83.4   | 89.5   | 85.3   |     |     |     |     |     | 127.4 |
| (414, 24/SEC)     | 81.1   | 80.8   | 82.5   | 83.3   | 87.1   | 86.7   | 88.8   | 89.8   | 86.5   | 88.8   | 88.7   |     |     |     |     |     | 130.0 |
| WFA 7940          | 81.4   | 87.4   | 87.8   | 83.4   | 85.4   | 86.2   | 87.0   | 87.7   | 83.8   | 89.7   | 84.4   |     |     |     |     |     | 128.2 |
| (434, 24/SEC)     | 81.7   | 86.3   | 81.2   | 83.1   | 84.2   | 86.2   | 86.7   | 86.8   | 83.8   | 89.1   | 84.8   |     |     |     |     |     | 128.0 |
| WPU 8029          | 80.2   | 85.2   | 84.8   | 86.8   | 82.9   | 84.8   | 86.3   | 87.2   | 88.8   | 88.3   | 83.8   |     |     |     |     |     | 127.1 |
| (924, 24/SEC)     | 80.7   | 85.2   | 84.8   | 81.4   | 82.7   | 84.8   | 86.3   | 86.7   | 88.8   | 88.8   | 83.3   |     |     |     |     |     | 127.0 |
| NO OF BLADES 18   | 80.2   | 87.7   | 87.3   | 85.7   | 82.4   | 83.4   | 85.4   | 86.8   | 81.7   | 87.3   | 88.8   |     |     |     |     |     | 128.6 |
| PAV TIP SPEED 10  | 84.5   | 81.4   | 83.9   | 86.9   | 88.7   | 88.8   | 83.2   | 84.1   | 89.3   | 84.9   | 80.8   |     |     |     |     |     | 124.3 |
| APP. FT/SEC 25    | 84.7   | 80.7   | 83.4   | 86.8   | 88.2   | 88.7   | 83.2   | 84.5   | 88.8   | 84.7   | 79.8   |     |     |     |     |     | 124.7 |
| 25 31             | 85.6   | 80.2   | 82.8   | 86.8   | 88.8   | 88.1   | 82.1   | 83.8   | 89.8   | 84.5   | 79.4   |     |     |     |     |     | 124.6 |
| 31 40             | 84.8   | 79.8   | 82.5   | 85.4   | 87.8   | 89.8   | 81.4   | 82.2   | 88.8   | 83.4   | 77.1   |     |     |     |     |     | 124.6 |
| 40 51             | 84.8   | 77.8   | 82.2   | 85.8   | 83.7   | 87.8   | 89.4   | 89.8   | 88.4   | 81.8   | 73.3   |     |     |     |     |     | 123.6 |
| 51 67             | 85.9   | 75.4   | 78.9   | 78.8   | 82.2   | 84.4   | 86.9   | 88.1   | 83.8   | 78.3   | 68.8   |     |     |     |     |     | 122.4 |
| 67 80             | 80.7   | 75.4   | 74.6   | 77.2   | 79.8   | 80.8   | 82.1   | 79.9   | 76.9   | 72.4   | 64.8   |     |     |     |     |     | 121.3 |
| 80                | 73.8   | 76.4   | 81.1   | 77.4   | 78.8   | 79.1   | 79.8   | 79.2   | 76.3   | 76.8   | 69.8   |     |     |     |     |     | 124.7 |
| OVERALL MEASURE   |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |       |
| OVERALL CALCULATE | 72.4   | 97.4   | 107.8  | 113.8  | 108.2  | 126.4  | 127.4  | 126.1  | 108.8  | 101.8  | 131.8  |     |     |     |     |     | 132.4 |
| PAV 100.0         | 110.8  | 110.8  | 113.6  | 116.8  | 118.7  | 119.3  | 120.9  | 120.2  | 114.8  | 112.4  |        |     |     |     |     |     |       |





|                       |        | MODEL SOUND PRESSURE LEVELS [59. DEG. F. 70 PERCENT REL. HUM. DAY] |       |       |       |        |        |        |        |         |         |         |         |          |          |
|-----------------------|--------|--|-------|-------|-------|--------|--------|--------|--------|---------|---------|---------|---------|----------|----------|
|                       |        | ANGLES FROM INLET IN DEGREES (AUD RADIANS)                         |       |       |       |        |        |        |        |         |         |         |         |          |          |
| FRQ:                  | 5A     | 6A   | 7A    | 8A    | 9A    | 10A    | 11A    | 12A    | 13A    | 14A     | 15A     | 16A     | 17A     | 18A      | 19A      |
|                       | (1.0)  | (1.8)  | (3.1) | (5.5) | (9.4) | (16.7) | (29.8) | (50.0) | (84.8) | (143.0) | (237.0) | (400.0) | (670.0) | (1100.0) | (1800.0) |
| SIDELINE 300 FT.      | 40     | 44.2   | 43.3  | 44.2  | 42.6  | 47.1   | 46.2   | 45.2   | 43.2   | 45.8    | 47.3    | 45.7    | 44.2    | 44.2     | 44.0     |
| VEHICLE R-85          | 120    | 41.9   | 46.2  | 49.8  | 46.5  | 51.0   | 47.4   | 45.7   | 46.3   | 47.7    | 45.6    | 44.0    | 44.0    | 44.0     | 44.0     |
| CONFIG 1A             | 100    | 41.8   | 43.3  | 44.6  | 45.7  | 45.5   | 48.6   | 47.3   | 47.2   | 47.3    | 47.7    | 45.0    | 45.0    | 45.0     | 45.0     |
| LOC SUBRECTANG        | 200    | 42.5   | 43.3  | 45.4  | 46.6  | 47.9   | 49.2   | 50.0   | 49.8   | 49.2    | 48.6    | 45.9    | 45.9    | 45.9     | 45.9     |
| DATE 12/16/74         | 200    | 43.9   | 45.4  | 47.4  | 49.2  | 49.3   | 49.7   | 50.6   | 49.7   | 49.5    | 47.5    | 44.6    | 44.6    | 44.6     | 44.6     |
| RUN 4179              | 315    | 44.5   | 46.3  | 46.0  | 49.4  | 50.0   | 49.0   | 49.8   | 49.1   | 49.7    | 47.5    | 43.5    | 43.5    | 43.5     | 43.5     |
| TAP 400               | 400    | 43.9   | 45.7  | 47.4  | 48.6  | 49.4   | 50.0   | 49.7   | 49.5   | 48.8    | 46.5    | 41.5    | 41.5    | 41.5     | 41.5     |
| BAR 29.8 Hz           | 500    | 43.4   | 44.4  | 46.6  | 47.6  | 46.6   | 48.9   | 50.6   | 49.7   | 48.2    | 46.4    | 42.8    | 42.8    | 42.8     | 42.8     |
| (1007.07 Hz)          | 400    | 44.5   | 47.5  | 49.2  | 51.2  | 52.5   | 53.1   | 53.5   | 52.5   | 51.5    | 49.7    | 41.1    | 41.1    | 41.1     | 41.1     |
| TAB 38. 350 F         | 400    | 45.3   | 49.0  | 50.7  | 52.6  | 53.1   | 53.7   | 54.6   | 56.5   | 56.5    | 56.5    | 48.7    | 48.7    | 48.7     | 48.7     |
| (270. 250 F)          | 1100   | 45.7   | 49.0  | 50.7  | 51.7  | 53.0   | 54.1   | 54.9   | 58.2   | 54.2    | 49.7    | 45.7    | 45.7    | 45.7     | 45.7     |
| TAB 35. 350 F         | 1400   | 46.4   | 51.2  | 54.5  | 57.4  | 59.9   | 60.2   | 61.5   | 61.3   | 59.2    | 55.4    | 44.0    | 44.0    | 44.0     | 44.0     |
| (270. 350 F)          | 1200   | 46.5   | 51.2  | 54.4  | 57.5  | 59.5   | 60.6   | 61.1   | 62.8   | 59.5    | 52.1    | 41.6    | 41.6    | 41.6     | 41.6     |
| HAT 5.05 34/MHz       | 2000   | 47.5   | 54.3  | 55.6  | 56.3  | 60.1   | 60.6   | 61.6   | 59.1   | 56.7    | 51.0    | 44.0    | 44.0    | 44.0     | 44.0     |
| (.00005 35/MHz)       | 2500   | 48.7   | 55.6  | 56.7  | 57.7  | 63.4   | 64.0   | 65.4   | 66.5   | 62.4    | 53.4    | 43.0    | 43.0    | 43.0     | 43.0     |
| VFA 5457. 400         | 3150   | 48.4   | 55.6  | 57.7  | 58.7  | 62.7   | 63.2   | 63.5   | 62.7   | 62.1    | 52.4    | 42.4    | 42.4    | 42.4     | 42.4     |
| ( 572. 340/SEC)       | 4000   | 47.4   | 58.9  | 59.5  | 59.5  | 62.2   | 62.9   | 63.5   | 63.8   | 60.5    | 52.2    | 41.6    | 41.6    | 41.6     | 41.6     |
| VFX 5531. 400         | 5000   | 48.3   | 58.8  | 54.7  | 58.0  | 60.0   | 60.9   | 60.7   | 60.2   | 58.9    | 49.5    | 37.8    | 37.8    | 37.8     | 37.8     |
| ( 604. 340/SEC)       | 6000   | 48.2   | 48.4  | 52.4  | 56.7  | 56.4   | 56.9   | 59.4   | 59.3   | 56.5    | 46.0    | 35.4    | 35.4    | 35.4     | 35.4     |
| VFA 6884. 400         | 9000   | 47.3   | 48.4  | 50.6  | 54.0  | 55.5   | 56.2   | 57.4   | 56.7   | 54.7    | 44.0    | 31.1    | 31.1    | 31.1     | 31.1     |
| ( 924. 340/SEC)       | 13000  | 37.3   | 42.1  | 44.3  | 51.4  | 53.3   | 56.9   | 55.2   | 56.7   | 51.7    | 41.3    | 28.8    | 28.8    | 28.8     | 28.8     |
| NO. OF RANGES 15      | 12000  | 34.2   | 39.1  | 43.4  | 48.2  | 50.5   | 51.5   | 52.3   | 50.7   | 47.3    | 35.8    | 19.0    | 19.0    | 19.0     | 19.0     |
| FAN TIP SPEED         | 15000  | 27.9   | 32.2  | 37.9  | 41.5  | 44.6   | 45.4   | 46.3   | 46.5   | 39.2    | 25.0    | 5.4     | 5.4     | 5.4      | 5.4      |
| 477. FT/SEC           | 20000  | 21.7   | 25.8  | 31.7  | 36.4  | 36.6   | 39.0   | 39.8   | 38.5   | 31.7    | 15.0    |         |         |          |          |
|                       | 25000  | 14.1   | 17.7  | 23.4  | 28.2  | 31.6   | 30.9   | 30.7   | 27.1   | 17.3    | 5.4     |         |         |          |          |
|                       | 31500  | 24.1   | 7.0   | 13.5  | 17.0  | 20.3   | 20.5   | 18.0   | 16.2   | 3.5     |         |         |         |          |          |
|                       | 40000  |  |       |       | 0.2   | 2.4    | 1.6    |        |        |         |         |         |         |          |          |
|                       | 50000  |  |       |       |       |        |        |        |        |         |         |         |         |          |          |
|                       | 63000  |  |       |       |       |        |        |        |        |         |         |         |         |          |          |
|                       | 80000  |  |       |       |       |        |        |        |        |         |         |         |         |          |          |
|                       | 100000 |  |       |       |       |        |        |        |        |         |         |         |         |          |          |
|                       | 125000 |  |       |       |       |        |        |        |        |         |         |         |         |          |          |
|                       | 157000 |  |       |       |       |        |        |        |        |         |         |         |         |          |          |
|                       | 200000 |  |       |       |       |        |        |        |        |         |         |         |         |          |          |
| OVERALL CALC. AT 1500 | 56.5   | 68.8   | 71.9  | 69.0  | 70.9  | 71.5   | 72.1   | 71.7   | 69.7   | 67.1    | 51.6    |         |         |          |          |
| AT 2000               | 71.3   | 78.5   | 79.4  | 68.0  | 64.4  | 65.0   | 65.8   | 65.3   | 65.5   | 70.2    | 60.4    |         |         |          |          |

ORIGINAL PAGE IS OF POOR QUALITY



ANGLES FROM INLET IN DEGREES (AND RADIAN)

FRF... 5g. 6g. 7g. 8g. 9g. 10g. 11g. 12g. 13g. 14g. 15g. 0. 0. 0. 0. 0. 0. PNL  
 (1.02)(1.19)(1.36)(1.53)(1.71)(1.88)(2.06)(2.24)(2.42)(2.60)(2.78)(0. )(0. )(0. )(0. )(0. )(0. )

|                    | 5g.   | 6g.  | 7g.   | 8g.   | 9g.   | 10g.  | 11g.  | 12g.  | 13g.  | 14g.  | 15g.  | 0.    | 0. | 0. | 0. | 0. | PNL   |
|--------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-------|
| RADIAL 17. FT.     | 50    |      |       |       |       |       |       |       |       |       |       |       |    |    |    |    |       |
| ( 5. M)            | 63    |      |       |       |       |       |       |       |       |       |       |       |    |    |    |    |       |
| VEHICLE R-55       | 100   | 67.3 | 71.3  | 76.2  | 77.1  | 76.3  | 75.5  | 73.4  | 69.9  | 71.2  | 75.4  | 77.8  |    |    |    |    | 108.7 |
| CONFIG 1V          | 125   | 65.8 | 67.6  | 71.4  | 69.9  | 69.3  | 69.0  | 69.2  | 70.9  | 71.4  | 73.4  | 76.1  |    |    |    |    | 104.5 |
| LCC SCHELECTADY    | 160   | 69.3 | 66.8  | 67.2  | 67.6  | 68.5  | 69.5  | 70.4  | 71.7  | 73.4  | 75.4  | 76.3  |    |    |    |    | 104.9 |
| DATE 11/15/74      | 200   | 67.8 | 66.6  | 67.7  | 68.4  | 70.5  | 71.8  | 72.4  | 74.7  | 74.7  | 77.2  | 78.3  |    |    |    |    | 106.5 |
| RUN 19/4           | 250   | 67.8 | 68.6  | 70.4  | 71.6  | 71.8  | 72.7  | 73.7  | 74.2  | 74.7  | 76.2  | 76.6  |    |    |    |    | 106.8 |
| TAPE               | 315   | 68.3 | 69.3  | 70.9  | 71.9  | 72.5  | 73.3  | 73.7  | 74.4  | 74.7  | 75.9  | 76.1  |    |    |    |    | 107.0 |
| BAR 29.7 HG        | 400   | 67.6 | 68.6  | 70.4  | 71.1  | 72.0  | 73.5  | 74.2  | 74.7  | 75.2  | 75.2  | 74.6  |    |    |    |    | 106.8 |
| (00162. N/M2)      | 500   | 66.6 | 67.8  | 68.9  | 70.4  | 72.3  | 73.0  | 73.7  | 74.2  | 74.2  | 74.9  | 73.8  |    |    |    |    | 106.2 |
| TAHB 43. DEG F     | 600   | 68.6 | 70.6  | 71.4  | 73.4  | 74.5  | 76.1  | 76.7  | 77.4  | 77.7  | 77.5  | 75.3  |    |    |    |    | 109.1 |
| (279. DEG K)       | 800   | 72.1 | 71.3  | 74.2  | 74.4  | 75.8  | 76.8  | 78.4  | 78.7  | 78.9  | 77.9  | 76.1  |    |    |    |    | 110.4 |
| TNET 38. DEG F     | 1000  | 68.6 | 70.8  | 73.4  | 74.4  | 75.6  | 77.3  | 78.4  | 79.4  | 79.9  | 78.2  | 73.8  |    |    |    |    | 110.5 |
| (276. DEG K)       | 1250  | 73.4 | 75.0  | 77.2  | 79.0  | 81.9  | 83.3  | 84.9  | 86.2  | 86.7  | 84.7  | 80.3  |    |    |    |    | 116.7 |
| HACT 4.60 GM/M3    | 1600  | 71.6 | 75.1  | 77.7  | 80.5  | 82.1  | 84.4  | 85.2  | 86.2  | 85.9  | 82.8  | 77.3  |    |    |    |    | 116.7 |
| (100400 KG/M3)     | 2000  | 71.9 | 76.7  | 78.7  | 82.1  | 84.4  | 86.4  | 86.9  | 85.7  | 84.7  | 81.5  | 77.3  |    |    |    |    | 117.6 |
| NFA 5538. RPM      | 2500  | 73.4 | 78.2  | 81.4  | 84.3  | 86.2  | 87.9  | 88.9  | 89.4  | 89.7  | 83.8  | 79.3  |    |    |    |    | 120.2 |
| ( 580. RAD/SEC)    | 3150  | 72.7 | 77.7  | 80.9  | 83.6  | 86.5  | 88.1  | 88.6  | 89.4  | 89.7  | 83.8  | 80.1  |    |    |    |    | 120.2 |
| NFK 5625. RPM      | 4000  | 71.9 | 76.9  | 79.8  | 83.4  | 85.2  | 87.1  | 88.3  | 90.1  | 89.2  | 84.0  | 79.0  |    |    |    |    | 119.8 |
| ( 589. RAD/SEC)    | 5000  | 69.6 | 74.9  | 78.0  | 82.1  | 84.4  | 86.1  | 86.5  | 87.7  | 87.4  | 82.2  | 76.5  |    |    |    |    | 118.2 |
| NFD 8823. RPM      | 6300  | 68.6 | 73.7  | 76.3  | 80.5  | 82.8  | 84.3  | 85.3  | 87.3  | 86.9  | 81.2  | 75.8  |    |    |    |    | 117.2 |
| ( 924. RAD/SEC)    | 8000  | 67.5 | 72.2  | 75.3  | 79.0  | 81.2  | 83.2  | 84.6  | 86.3  | 86.0  | 80.7  | 74.7  |    |    |    |    | 116.3 |
| NO. OF BLADES 15   | 10000 | 68.1 | 71.0  | 74.1  | 78.8  | 80.9  | 82.9  | 84.1  | 86.3  | 85.4  | 79.7  | 74.7  |    |    |    |    | 116.1 |
| FAN TIP SPEED      | 12500 | 69.3 | 70.7  | 73.2  | 77.4  | 80.0  | 82.8  | 84.3  | 86.2  | 84.2  | 78.6  | 73.7  |    |    |    |    | 115.8 |
| 483. FT/SEC        | 16000 | 65.6 | 67.2  | 70.4  | 74.1  | 77.5  | 80.0  | 82.1  | 83.6  | 83.0  | 76.8  | 71.2  |    |    |    |    | 113.9 |
|                    | 20000 | 66.4 | 66.9  | 69.9  | 74.8  | 76.4  | 79.7  | 81.9  | 84.5  | 82.7  | 76.9  | 71.3  |    |    |    |    | 114.4 |
|                    | 25000 | 70.6 | 69.9  | 69.0  | 72.7  | 75.7  | 77.5  | 79.5  | 81.3  | 80.8  | 74.9  | 69.8  |    |    |    |    | 112.8 |
|                    | 31500 | 69.1 | 68.0  | 67.7  | 72.3  | 74.5  | 76.2  | 78.8  | 80.9  | 79.5  | 74.1  | 68.0  |    |    |    |    | 113.0 |
|                    | 40000 | 66.4 | 65.0  | 67.1  | 69.9  | 72.5  | 74.7  | 76.8  | 77.7  | 76.9  | 72.1  | 65.0  |    |    |    |    | 111.8 |
|                    | 50000 | 67.9 | 65.3  | 67.3  | 68.6  | 69.5  | 72.0  | 74.0  | 73.4  | 72.8  | 69.9  | 64.9  |    |    |    |    | 110.8 |
|                    | 63000 | 68.4 | 65.7  | 68.1  | 67.9  | 69.2  | 70.5  | 71.1  | 70.4  | 70.0  | 68.2  | 65.5  |    |    |    |    | 111.9 |
|                    | 80000 | 70.4 | 67.8  | 70.2  | 69.3  | 71.5  | 73.0  | 73.9  | 73.1  | 71.9  | 69.9  | 68.2  |    |    |    |    | 118.2 |
| OVERALL MEASURED   |       |      |       |       |       |       |       |       |       |       |       |       |    |    |    |    |       |
| OVERALL CALCULATED |       | 84.4 | 87.2  | 89.8  | 92.8  | 94.9  | 96.7  | 97.7  | 98.8  | 98.5  | 94.2  | 90.6  |    |    |    |    | 129.8 |
| PNDR               |       | 96.2 | 100.3 | 103.1 | 105.9 | 108.2 | 109.8 | 110.5 | 111.7 | 111.4 | 107.1 | 103.4 |    |    |    |    |       |

MOTEL SOUND PRESSURE LEVELS (50, DEC. F, 70 PERCENT REL. HUM. ENV)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.              | ANGLES FROM INLET IN DEGREES (AND RADIANS) |        |        |        |        |        |        |        |        |        |        |      |    |    |    |
|--------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|
|                    | 50.  | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0. | 0. | 0. |
|                    | (1.02)                                     | (1.19) | (1.36) | (1.53) | (1.71) | (1.98) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | 0.   | 0. | 0. | 0. |
| 50                 |  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |
| 63                 |  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |
| 80                 |  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |
| SIZE LINE 200. FT. |  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |
| (60.96 H)          | 100  | 44.2   | 49.1   | 54.4   | 55.6   | 54.6   | 53.5   | 50.7   | 46.1   | 45.0   | 47.0   | 46.4 |    |    |    |
| VEHICLE R-55       | 125  | 42.5   | 45.3   | 49.6   | 49.2   | 47.6   | 46.9   | 46.4   | 47.1   | 46.0   | 45.6   | 44.5 |    |    |    |
| CORNFIC 19         | 100  | 46.1   | 44.4   | 45.3   | 45.9   | 47.0   | 47.3   | 47.6   | 47.7   | 47.8   | 47.5   | 44.5 |    |    |    |
| LCC SCHEMECTADY    | 200  | 44.5   | 44.1   | 45.7   | 46.6   | 49.6   | 49.5   | 49.5   | 50.6   | 49.0   | 49.1   | 46.2 |    |    |    |
| DATE 11/15/74      | 250  | 44.4   | 46.0   | 45.3   | 49.7   | 49.8   | 50.4   | 50.6   | 50.0   | 48.8   | 47.9   | 44.2 |    |    |    |
| RUM 12/4           | 315  | 44.8   | 46.7   | 48.7   | 49.9   | 50.5   | 50.8   | 50.5   | 50.1   | 48.7   | 47.5   | 43.5 |    |    |    |
| TAFE               | 400  | 43.5   | 45.8   | 48.2   | 49.1   | 49.9   | 51.0   | 50.9   | 50.3   | 49.1   | 46.6   | 41.7 |    |    |    |
| BAR 20.7 MC        | 500  | 42.9   | 45.0   | 46.6   | 48.3   | 50.1   | 50.4   | 50.3   | 49.7   | 47.9   | 46.1   | 40.7 |    |    |    |
| (100182. H/M2)     | 630  | 44.8   | 47.6   | 49.0   | 51.2   | 52.5   | 53.3   | 53.2   | 52.6   | 51.3   | 48.4   | 41.0 |    |    |    |
| TANA 43. DEC F     | 800  | 48.1   | 48.2   | 51.6   | 52.1   | 53.4   | 54.0   | 54.8   | 53.9   | 52.4   | 48.7   | 42.3 |    |    |    |
| (279. DEC K)       | 1000                                       | 44.5   | 47.6   | 50.7   | 51.9   | 53.0   | 54.3   | 54.7   | 54.5   | 53.2   | 48.7   | 39.7 |    |    |    |
| T-ET 34. DEC F     | 1250                                       | 49.1   | 52.5   | 54.3   | 54.4   | 59.2   | 60.2   | 61.0   | 61.0   | 59.7   | 54.9   | 45.7 |    |    |    |
| (276. DEC K)       | 1600                                       | 47.2   | 51.5   | 54.7   | 57.7   | 59.3   | 61.1   | 61.1   | 60.8   | 58.7   | 52.6   | 42.1 |    |    |    |
| HACT 4.00 CM/M3    | 2000                                       | 47.2   | 52.9   | 55.5   | 59.1   | 61.4   | 62.9   | 62.6   | 60.1   | 57.2   | 51.0   | 41.7 |    |    |    |
| (-60460 KG/M3)     | 2500                                       | 48.5   | 54.2   | 58.1   | 61.2   | 63.0   | 64.2   | 64.4   | 63.6   | 61.9   | 52.9   | 43.2 |    |    |    |
| NFA 5538. RPM      | 3150                                       | 47.4   | 53.5   | 57.3   | 60.2   | 62.9   | 64.2   | 63.8   | 63.2   | 61.5   | 52.4   | 43.1 |    |    |    |
| (500. RAD/SEC)     | 4000                                       | 46.1   | 52.2   | 55.8   | 59.5   | 61.3   | 62.7   | 63.0   | 63.4   | 60.3   | 51.8   | 40.8 |    |    |    |
| NFK 5025. RPM      | 5000                                       | 43.6   | 49.9   | 53.7   | 59.0   | 60.2   | 61.4   | 61.0   | 60.7   | 58.1   | 49.5   | 37.6 |    |    |    |
| (589. RAD/SEC)     | 6300                                       | 41.3   | 48.0   | 51.2   | 55.7   | 57.9   | 59.9   | 58.0   | 59.4   | 56.6   | 47.1   | 34.8 |    |    |    |
| NFB 8823. RPM      | 8000                                       | 39.4   | 45.3   | 49.2   | 53.1   | 55.3   | 56.7   | 57.0   | 57.0   | 54.0   | 44.3   | 30.4 |    |    |    |
| (924. RAD/SEC)     | 10000                                      | 38.2   | 42.5   | 46.4   | 51.5   | 53.4   | 54.8   | 54.6   | 55.1   | 51.1   | 40.4   | 25.9 |    |    |    |
| NO. OF GLACES 15   | 12500                                      | 36.8   | 39.8   | 43.3   | 47.8   | 50.3   | 52.4   | 52.4   | 52.1   | 46.4   | 34.8   | 18.3 |    |    |    |
| FAN TIP SPEED      | 16000                                      | 28.8   | 32.4   | 36.4   | 40.0   | 44.2   | 45.8   | 46.2   | 45.8   | 39.6   | 29.7   | 5.0  |    |    |    |
| 483. FT/SEC        | 20000                                      | 23.9   | 26.9   | 31.4   | 36.9   | 38.2   | 40.5   | 40.5   | 39.5   | 32.0   | 18.2   |      |    |    |    |
|                    | 25000                                      | 20.0   | 22.6   | 23.5   | 28.1   | 30.7   | 31.1   | 30.3   | 27.5   | 19.5   | 0.5    |      |    |    |    |
|                    | 31500                                      | 6.7    | 10.0   | 12.2   | 17.7   | 19.5   | 20.4   | 18.3   | 14.1   | 2.7    |        |      |    |    |    |
|                    | 40000                                      |        |        |        | 0.6    | 2.6    | 2.2    |        |        |        |        |      |    |    |    |
|                    | 50000                                      |        |        |        |        |        |        |        |        |        |        |      |    |    |    |
|                    | 63000                                      |        |        |        |        |        |        |        |        |        |        |      |    |    |    |
|                    | 80000                                      |        |        |        |        |        |        |        |        |        |        |      |    |    |    |
| OVERALL CALCULATED |  | 58.8   | 62.4   | 66.0   | 68.9   | 70.9   | 72.1   | 72.1   | 71.6   | 69.5   | 63.6   | 55.9 |    |    |    |
| PMDE               |  | 70.9   | 75.9   | 79.4   | 82.4   | 84.6   | 85.8   | 85.6   | 85.2   | 83.1   | 75.5   | 66.8 |    |    |    |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL 5007 PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. EAV)  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

PRG. DATE - MONTH 12 DAY 4 YR. 12.5

| PRG. NO.            | 59.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.    | 0.  | 0.  | 0.  | 0.  | 0.  | 0.    |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|-----|-----|-------|
|                     | (1.02) | (1.13) | (1.36) | (1.53) | (1.71) | (1.00) | (2.06) | (2.24) | (2.42) | (2.60) | (2.76) | (0.   | (0. | (0. | (0. | (0. | (0. | (0.   |
| RACIAL 17. FI       | 50     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |       |
| VEHICLE 17. FI      | 63     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |       |
| CONFIC 19           | 30     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |       |
| LOC SCHEMECTAD      | 100    | 71.0   | 73.6   | 72.4   | 72.1   | 74.3   | 73.0   | 73.4   | 74.4   | 73.0   | 77.2   | 80.0  |     |     |     |     |     | 100.3 |
| DATE 11/15/74       | 175    | 68.3   | 70.1   | 71.7   | 71.6   | 73.3   | 72.5   | 72.2   | 74.7   | 75.7   | 77.7   | 80.0  |     |     |     |     |     | 107.0 |
| RUN 19/5            | 200    | 69.0   | 69.6   | 69.7   | 71.1   | 71.9   | 72.3   | 73.2   | 74.9   | 77.2   | 79.7   | 81.1  |     |     |     |     |     | 100.4 |
| TAPE 40             | 250    | 69.3   | 69.1   | 70.2   | 71.4   | 73.5   | 75.3   | 75.7   | 78.2   | 79.9   | 80.9   | 82.6  |     |     |     |     |     | 110.1 |
| GAR 29.7 HG         | 270    | 69.4   | 72.1   | 73.7   | 74.0   | 75.0   | 76.0   | 76.7   | 77.9   | 78.2   | 80.2   | 81.3  |     |     |     |     |     | 110.3 |
| 100102. 2/M21       | 315    | 71.3   | 73.3   | 74.7   | 75.4   | 75.8   | 77.3   | 77.2   | 78.7   | 78.9   | 80.2   | 80.3  |     |     |     |     |     | 110.9 |
| TAMW 43. DEG F      | 400    | 70.3   | 72.1   | 72.9   | 74.1   | 75.3   | 76.0   | 76.4   | 77.9   | 77.9   | 80.2   | 80.3  |     |     |     |     |     | 109.7 |
| 1279. DEG K1        | 500    | 68.8   | 71.1   | 71.7   | 73.2   | 74.8   | 75.0   | 76.7   | 77.9   | 77.7   | 78.2   | 77.6  |     |     |     |     |     | 109.4 |
| 1276. DEG K1        | 600    | 70.4   | 72.8   | 74.4   | 76.2   | 77.6   | 79.1   | 79.2   | 80.4   | 80.4   | 80.2   | 77.0  |     |     |     |     |     | 111.9 |
| HACT 4.60 CM/MS     | 670    | 73.1   | 74.1   | 75.9   | 76.4   | 78.1   | 78.6   | 80.4   | 80.9   | 81.2   | 80.2   | 77.8  |     |     |     |     |     | 112.4 |
| 100400. 20/M31      | 1000   | 70.9   | 73.8   | 75.7   | 76.7   | 78.1   | 79.0   | 81.2   | 82.9   | 82.4   | 79.7   | 76.6  |     |     |     |     |     | 113.1 |
| MFA 6321. MPH       | 1200   | 72.1   | 75.9   | 77.9   | 79.2   | 83.9   | 82.0   | 84.7   | 85.7   | 85.2   | 81.2   | 78.6  |     |     |     |     |     | 115.0 |
| 1602. RAD/SEC       | 1800   | 78.4   | 84.9   | 89.7   | 89.5   | 93.6   | 92.4   | 92.7   | 93.7   | 93.2   | 87.0   | 82.0  |     |     |     |     |     | 120.0 |
| 100400. 20/M31      | 2000   | 75.2   | 79.9   | 82.2   | 85.1   | 87.4   | 89.1   | 89.2   | 88.7   | 87.5   | 83.0   | 79.8  |     |     |     |     |     | 120.3 |
| MFA 6321. MPH       | 2500   | 74.7   | 79.9   | 82.7   | 84.1   | 87.9   | 89.9   | 89.1   | 89.7   | 89.7   | 84.5   | 79.0  |     |     |     |     |     | 121.0 |
| 1602. RAD/SEC       | 3100   | 77.4   | 82.9   | 88.4   | 89.9   | 91.5   | 91.9   | 93.4   | 95.1   | 93.7   | 88.8   | 84.1  |     |     |     |     |     | 125.0 |
| 1421. MPH           | 4000   | 74.6   | 80.4   | 83.1   | 87.1   | 88.7   | 90.6   | 91.3   | 92.1   | 91.4   | 85.3   | 80.0  |     |     |     |     |     | 122.0 |
| 1672. RAD/SEC       | 5000   | 74.1   | 80.4   | 83.0   | 86.8   | 89.4   | 90.6   | 91.5   | 93.0   | 91.4   | 85.7   | 80.0  |     |     |     |     |     | 122.9 |
| MFD 8023. MPH       | 6000   | 72.4   | 77.7   | 80.8   | 85.2   | 87.3   | 88.3   | 90.5   | 91.0   | 89.0   | 83.9   | 79.0  |     |     |     |     |     | 121.3 |
| 1924. RAD/SEC       | 8000   | 71.0   | 76.9   | 79.6   | 84.0   | 85.2   | 87.2   | 88.8   | 90.1   | 89.0   | 82.9   | 77.7  |     |     |     |     |     | 120.1 |
| NO. OF BLADES 15    | 10000  | 71.1   | 76.0   | 79.6   | 83.1   | 85.6   | 86.9   | 88.1   | 89.8   | 88.4   | 82.7   | 77.2  |     |     |     |     |     | 119.9 |
| FAN TIP SPEED 16000 | 12500  | 71.3   | 75.2   | 78.7   | 81.9   | 84.3   | 85.0   | 87.5   | 90.5   | 87.2   | 81.4   | 76.4  |     |     |     |     |     | 119.5 |
| 952. FT/SEC         | 15000  | 67.6   | 71.7   | 75.4   | 78.4   | 82.3   | 83.0   | 86.1   | 87.3   | 84.8   | 79.3   | 74.4  |     |     |     |     |     | 117.5 |
| 25000               | 20000  | 69.1   | 71.1   | 74.9   | 78.8   | 81.1   | 83.7   | 86.1   | 88.2   | 85.7   | 80.1   | 74.0  |     |     |     |     |     | 118.2 |
| 31500               | 25000  | 70.8   | 72.1   | 73.7   | 77.2   | 80.2   | 82.5   | 84.5   | 86.0   | 84.3   | 77.9   | 72.0  |     |     |     |     |     | 117.2 |
| 43000               | 31500  | 68.1   | 70.5   | 72.7   | 77.1   | 79.0   | 82.0   | 83.3   | 85.1   | 83.8   | 77.6   | 71.0  |     |     |     |     |     | 117.3 |
| 53000               | 43000  | 66.4   | 67.7   | 70.6   | 74.7   | 76.7   | 79.4   | 81.6   | 82.7   | 80.7   | 75.0   | 67.2  |     |     |     |     |     | 116.3 |
| 63000               | 53000  | 67.9   | 68.3   | 69.5   | 71.1   | 72.8   | 75.5   | 78.5   | 77.9   | 78.3   | 72.4   | 65.7  |     |     |     |     |     | 116.4 |
| 80000               | 63000  | 68.9   | 68.2   | 69.4   | 69.9   | 70.5   | 72.5   | 73.6   | 72.4   | 71.2   | 69.5   | 66.2  |     |     |     |     |     | 113.0 |
| OVERALL MEASURED    | 80000  | 70.4   | 69.5   | 71.2   | 72.1   | 72.7   | 74.2   | 73.9   | 73.0   | 72.2   | 78.7   | 68.2  |     |     |     |     |     | 119.0 |
| OVERALL CALCULATED  |        | 86.9   | 91.5   | 94.7   | 97.2   | 99.0   | 100.4  | 101.5  | 102.0  | 101.5  | 96.7   | 93.7  |     |     |     |     |     | 133.4 |
| PNZE                |        | 99.8   | 104.8  | 107.8  | 110.0  | 112.4  | 113.3  | 114.5  | 115.0  | 114.8  | 110.5  | 106.7 |     |     |     |     |     |       |

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OF POOR QUALITY

| PARAMETER          | ANGLE |        |        |        |       |       |       |       |       |       |       |      |      |      |      |
|--------------------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
|                    | 50.   | 60.    | 70.    | 80.    | 90.   | 100.  | 110.  | 120.  | 130.  | 140.  | 150.  | 0.   | 0.   | 0.   | 0.   |
|                    | (.87) | (1.05) | (1.23) | (1.57) | (2.0) | (2.6) | (3.3) | (4.1) | (5.0) | (6.0) | (7.0) | (0.) | (0.) | (0.) | (0.) |
| SICELINE 700. FT.  | 100   | 48.0   | 51.3   | 50.7   | 50.6  | 52.4  | 51.7  | 53.7  | 50.0  | 40.4  | 40.5  | 49.2 |      |      |      |
| VEHICLE R-55       | 100   | 45.1   | 47.4   | 49.0   | 49.0  | 51.0  | 50.4  | 49.4  | 50.0  | 50.2  | 49.9  | 49.0 |      |      |      |
| CONFIG 19          | 100   | 45.0   | 47.2   | 47.4   | 49.4  | 51.0  | 50.1  | 50.0  | 50.9  | 51.6  | 51.7  | 49.2 |      |      |      |
| LCC SPWENECTARY    | 200   | 45.0   | 45.6   | 48.2   | 49.6  | 51.0  | 53.0  | 52.7  | 54.1  | 53.2  | 52.8  | 50.5 |      |      |      |
| DATE 11/15/74      | 270   | 46.4   | 49.5   | 51.6   | 53.0  | 53.1  | 53.7  | 53.6  | 53.7  | 52.3  | 51.9  | 49.0 |      |      |      |
| R.J. 19/5          | 315   | 47.5   | 50.7   | 52.5   | 53.4  | 53.7  | 54.0  | 54.0  | 54.4  | 53.0  | 51.7  | 47.7 |      |      |      |
| TAPE               | 400   | 44.7   | 49.3   | 50.7   | 52.1  | 53.2  | 53.5  | 53.2  | 53.5  | 51.0  | 49.9  | 45.5 |      |      |      |
| BAR 29.7 MC        | 500   | 45.1   | 48.2   | 49.3   | 51.3  | 52.5  | 53.2  | 53.3  | 53.4  | 51.4  | 49.4  | 44.4 |      |      |      |
| (30142. M/M2)      | 630   | 46.5   | 49.9   | 52.8   | 51.9  | 55.2  | 54.3  | 55.7  | 55.0  | 54.0  | 51.2  | 44.0 |      |      |      |
| TAMB 43. DEG F     | 800   | 49.1   | 51.0   | 53.4   | 54.1  | 55.8  | 55.7  | 56.0  | 56.1  | 54.6  | 50.9  | 44.0 |      |      |      |
| (270. DEG K)       | 1000  | 46.8   | 50.6   | 53.0   | 54.2  | 55.5  | 56.0  | 57.4  | 58.0  | 55.7  | 50.2  | 42.4 |      |      |      |
| TACT 30. DEG F     | 1200  | 47.9   | 52.5   | 55.1   | 56.6  | 58.2  | 59.7  | 60.4  | 60.5  | 58.2  | 51.4  | 44.0 |      |      |      |
| (270. DEG K)       | 1600  | 53.9   | 61.3   | 64.7   | 66.7  | 67.0  | 69.1  | 68.6  | 68.3  | 66.0  | 56.9  | 47.0 |      |      |      |
| NACT 4.00 G/M3     | 2000  | 52.5   | 56.2   | 59.0   | 62.1  | 64.4  | 65.6  | 64.9  | 63.1  | 59.0  | 52.5  | 44.2 |      |      |      |
| (.30400 G/M3)      | 2500  | 49.8   | 56.0   | 59.3   | 62.9  | 64.7  | 65.2  | 64.7  | 64.1  | 61.9  | 53.7  | 43.0 |      |      |      |
| NFA 6321. RPM      | 3150  | 52.2   | 54.7   | 62.0   | 64.9  | 67.9  | 68.6  | 69.0  | 69.0  | 65.5  | 57.4  | 47.1 |      |      |      |
| ( 6021. RAD/SEC)   | 4000  | 48.9   | 55.7   | 59.0   | 63.3  | 64.0  | 66.2  | 66.0  | 65.4  | 62.6  | 53.0  | 42.6 |      |      |      |
| NFK 6421. RPM      | 5000  | 43.1   | 55.4   | 54.7   | 62.0  | 65.2  | 65.9  | 66.0  | 66.0  | 62.1  | 53.0  | 41.1 |      |      |      |
| ( 672. RAD/SEC)    | 6300  | 45.5   | 52.3   | 55.7   | 60.5  | 62.2  | 62.9  | 64.2  | 63.6  | 57.3  | 49.0  | 30.0 |      |      |      |
| NFD 8023. RPM      | 8000  | 42.9   | 50.0   | 53.4   | 58.1  | 58.3  | 60.7  | 61.2  | 60.7  | 57.0  | 46.6  | 33.0 |      |      |      |
| ( 921. RAD/SEC)    | 10000 | 41.2   | 47.5   | 51.9   | 55.7  | 58.1  | 58.0  | 58.0  | 56.6  | 54.1  | 43.4  | 28.4 |      |      |      |
| NO. OF BLADES 15   | 12500 | 34.8   | 44.3   | 44.0   | 52.3  | 54.6  | 55.4  | 55.7  | 56.3  | 49.4  | 37.6  | 21.1 |      |      |      |
| FAN TIP SPEED      | 16000 | 30.8   | 36.9   | 41.0   | 45.7  | 48.9  | 49.5  | 50.2  | 48.5  | 41.4  | 28.2  | 8.3  |      |      |      |
| 592. FT/SEC        | 20000 | 25.6   | 31.2   | 36.4   | 40.0  | 43.0  | 44.5  | 44.7  | 43.2  | 35.0  | 19.4  |      |      |      |      |
|                    | 25000 | 20.3   | 24.0   | 28.3   | 32.6  | 35.2  | 36.1  | 35.3  | 32.2  | 23.0  | 3.5   |      |      |      |      |
|                    | 31500 | 9.7    | 12.5   | 17.2   | 22.5  | 24.3  | 25.1  | 22.0  | 18.4  | 7.0   |       |      |      |      |      |
|                    | 40000 |        |        |        | 5.3   | 6.0   | 7.0   | 4.1   |       |       |       |      |      |      |      |
|                    | 50000 |        |        |        |       |       |       |       |       |       |       |      |      |      |      |
|                    | 63000 |        |        |        |       |       |       |       |       |       |       |      |      |      |      |
|                    | 80000 |        |        |        |       |       |       |       |       |       |       |      |      |      |      |
| OVERALL CALCULATED |       | 61.5   | 67.1   | 70.9   | 73.3  | 74.0  | 75.7  | 75.7  | 75.5  | 72.5  | 65.5  | 59.3 |      |      |      |
| PAID               |       | 74.5   | 68.5   | 64.1   | 67.3  | 68.6  | 69.3  | 69.6  | 69.6  | 66.5  | 70.1  | 70.0 |      |      |      |



|                    | 59.    | 68.    | 78.    | 88.    | 98.    | 106.   | 116.   | 126.   | 139.   | 149.   | 159.   | 0.   | 0.  | 0.  | 0.  | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|------|
| FREQ.              | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.  | (0. | (0. | (0. | (0.) |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |      |
| ( 60.96 "          | 63     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |      |
| VEHICLE R-55       | 100    | 50.0   | 49.3   | 50.9   | 52.0   | 51.9   | 52.7   | 51.0   | 50.4   | 51.6   | 53.8   | 53.9 |     |     |     |      |
| CONFIG 19          | 125    | 51.4   | 55.8   | 56.6   | 55.7   | 55.5   | 55.6   | 53.7   | 54.8   | 54.5   | 53.9   | 53.0 |     |     |     |      |
| LCC SCHEMECTADY    | 160    | 52.8   | 50.7   | 51.8   | 53.1   | 53.5   | 54.3   | 54.3   | 54.7   | 55.6   | 55.7   | 53.0 |     |     |     |      |
| DATE 11/15/74      | 200    | 51.7   | 49.1   | 50.7   | 54.0   | 55.6   | 56.7   | 56.0   | 56.8   | 56.5   | 56.6   | 54.2 |     |     |     |      |
| RUN 19/6           | 250    | 53.1   | 53.0   | 55.1   | 56.9   | 57.8   | 57.9   | 57.9   | 57.2   | 56.6   | 56.1   | 53.2 |     |     |     |      |
| TAPE               | 315    | 52.2   | 54.4   | 56.0   | 56.6   | 57.0   | 57.5   | 57.0   | 57.4   | 56.0   | 55.7   | 51.7 |     |     |     |      |
| BAR 29.7 HG        | 400    | 51.7   | 52.3   | 53.7   | 55.0   | 55.9   | 56.7   | 56.7   | 56.3   | 55.3   | 54.1   | 49.7 |     |     |     |      |
| (00162. N/M2)      | 500    | 50.3   | 51.0   | 52.6   | 55.0   | 55.8   | 56.9   | 57.1   | 56.7   | 54.7   | 53.1   | 48.4 |     |     |     |      |
| TAMB 43. DEG F     | 600    | 52.0   | 52.9   | 55.0   | 57.4   | 58.2   | 59.8   | 58.7   | 58.5   | 57.3   | 53.7   | 47.9 |     |     |     |      |
| (279. DEG K)       | 800    | 57.1   | 53.0   | 55.9   | 58.5   | 60.1   | 59.9   | 59.3   | 59.1   | 57.1   | 53.4   | 47.5 |     |     |     |      |
| TWET 38. DEG F     | 1000   | 52.0   | 53.4   | 56.0   | 57.4   | 58.2   | 59.8   | 60.2   | 60.5   | 58.2   | 52.7   | 45.7 |     |     |     |      |
| (276. DEG K)       | 1250   | 51.1   | 53.7   | 55.8   | 58.5   | 60.1   | 61.4   | 62.8   | 62.6   | 60.0   | 53.4   | 46.0 |     |     |     |      |
| MACT 4.60 GM/M3    | 1600   | 54.1   | 58.8   | 60.4   | 63.9   | 66.5   | 66.8   | 69.1   | 67.8   | 64.0   | 56.6   | 47.3 |     |     |     |      |
| (100460 KG/M3)     | 2000   | 56.7   | 61.9   | 63.2   | 66.9   | 69.3   | 71.1   | 70.9   | 69.1   | 65.4   | 58.3   | 48.7 |     |     |     |      |
| NFA 7119. RPM      | 2500   | 53.7   | 59.2   | 62.8   | 66.7   | 68.2   | 67.9   | 68.7   | 68.3   | 63.7   | 56.2   | 46.4 |     |     |     |      |
| ( 745. RAD/SEC)    | 3150   | 54.1   | 60.0   | 63.5   | 67.2   | 68.7   | 69.4   | 69.3   | 70.5   | 65.5   | 56.9   | 47.6 |     |     |     |      |
| NFK 7231. RPM      | 4000   | 54.1   | 60.5   | 63.8   | 67.5   | 69.5   | 70.7   | 70.5   | 71.6   | 65.6   | 56.5   | 47.1 |     |     |     |      |
| ( 757. RAD/SEC)    | 5000   | 52.5   | 58.9   | 63.0   | 66.5   | 68.5   | 69.9   | 69.2   | 68.5   | 63.6   | 54.5   | 43.8 |     |     |     |      |
| NFD 8823. RPM      | 6000   | 49.8   | 56.8   | 60.5   | 63.7   | 65.9   | 66.6   | 66.9   | 67.4   | 61.1   | 52.8   | 41.1 |     |     |     |      |
| ( 924. RAD/SEC)    | 8000   | 47.6   | 54.3   | 58.4   | 61.8   | 63.5   | 64.7   | 65.5   | 64.5   | 58.5   | 49.8   | 36.4 |     |     |     |      |
| NO. OF BLADES 15   | 10000  | 46.9   | 52.3   | 55.9   | 60.2   | 61.6   | 63.0   | 63.6   | 62.8   | 56.3   | 45.9   | 31.9 |     |     |     |      |
| FAN TIP SPEED      | 12500  | 45.2   | 48.1   | 52.5   | 56.5   | 58.6   | 59.6   | 60.2   | 59.3   | 51.6   | 40.8   | 24.3 |     |     |     |      |
| 621. FT/SEC        | 16000  | 38.2   | 41.4   | 46.3   | 49.9   | 52.4   | 53.5   | 53.9   | 52.7   | 43.9   | 31.2   | 11.3 |     |     |     |      |
|                    | 20000  | 33.8   | 35.7   | 40.6   | 45.1   | 47.7   | 48.4   | 48.5   | 47.0   | 37.7   | 21.9   |      |     |     |     |      |
|                    | 25000  | 28.3   | 27.3   | 32.8   | 37.5   | 39.4   | 40.1   | 39.6   | 37.0   | 26.2   | 7.3    |      |     |     |     |      |
|                    | 31500  | 15.2   | 15.7   | 21.2   | 26.7   | 28.5   | 29.3   | 27.0   | 22.9   | 9.5    |        |      |     |     |     |      |
|                    | 40000  |        |        | 4.0    | 10.3   | 11.3   | 11.9   | 8.1    | 0.8    |        |        |      |     |     |     |      |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |      |
|                    | 60000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |      |
| OVERALL CALCULATED |        | 66.1   | 69.7   | 72.5   | 75.6   | 77.6   | 78.6   | 78.6   | 78.6   | 74.1   | 68.1   | 62.9 |     |     |     |      |
| PNCB               |        | 78.2   | 83.1   | 86.1   | 89.4   | 91.3   | 92.4   | 92.3   | 92.7   | 87.8   | 80.6   | 72.2 |     |     |     |      |

1.001

MODEL SQ. 17 PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. CAT)

ANGLES FROM INLET IN DEGREES (AND RADIAN)

| PARAMETER          | FREQ. | PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. CAT) |        |        |        |        |        |        |        |        |        |        | PWL |     |     |     |       |
|--------------------|-------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-------|
|                    |       | 58   | 60     | 72     | 83     | 98     | 106    | 114    | 126    | 136    | 146    | 159    |     | 0   | 0   | 0   | 0     |
|                    |       | (1.02)   | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0) | (0) | (0) | (0) | (0)   |
| RADIAL 17. FT.     | 50    |  |        |        |        |        |        |        |        |        |        |        |     |     |     |     |       |
| ( 50. FT)          | 63    |  |        |        |        |        |        |        |        |        |        |        |     |     |     |     |       |
| AG                 | 83    |  |        |        |        |        |        |        |        |        |        |        |     |     |     |     |       |
| VEHICLE            | 100   | 74.0   | 74.5   | 75.9   | 75.8   | 77.0   | 77.7   | 77.9   | 78.1   | 80.3   | 84.6   | 89.3   |     |     |     |     | 113.9 |
| COMP. 19           | 175   | 77.0   | 77.3   | 77.6   | 77.6   | 80.0   | 81.4   | 81.9   | 82.1   | 83.1   | 85.1   | 88.5   |     |     |     |     | 115.4 |
| LCC SCHEMECTADY    | 180   | 78.0   | 76.5   | 77.1   | 77.4   | 78.5   | 79.0   | 80.6   | 82.4   | 84.1   | 86.6   | 88.8   |     |     |     |     | 115.6 |
| DATE 11/15/74      | 200   | 76.5   | 75.3   | 77.4   | 77.5   | 79.8   | 82.0   | 81.9   | 84.4   | 85.3   | 87.5   | 89.8   |     |     |     |     | 116.7 |
| RUN 1977           | 250   | 78.5   | 79.5   | 81.6   | 82.6   | 83.0   | 84.2   | 85.4   | 86.4   | 86.6   | 87.3   | 89.5   |     |     |     |     | 118.4 |
| TAPE               | 315   | 78.2   | 79.8   | 80.6   | 81.8   | 82.3   | 83.7   | 83.7   | 84.9   | 85.8   | 87.3   | 88.5   |     |     |     |     | 117.8 |
| BAR 29.7 HG        | 400   | 77.3   | 78.3   | 79.4   | 80.1   | 81.0   | 82.0   | 82.9   | 84.4   | 84.6   | 85.6   | 86.5   |     |     |     |     | 116.3 |
| (100102. N/M2)     | 500   | 76.3   | 77.3   | 78.4   | 79.9   | 81.0   | 82.5   | 83.4   | 84.4   | 84.3   | 85.1   | 85.0   |     |     |     |     | 116.1 |
| TAMB 43. DEG F     | 630   | 77.8   | 79.5   | 80.6   | 82.6   | 83.8   | 85.5   | 85.7   | 86.4   | 86.6   | 85.8   | 85.5   |     |     |     |     | 118.2 |
| (1279. DEG F)      | 800   | 82.1   | 81.5   | 83.9   | 87.4   | 84.3   | 85.3   | 86.7   | 87.1   | 87.1   | 85.3   | 86.5   |     |     |     |     | 119.0 |
| TACT 28. DEG F     | 1000  | 77.6   | 79.5   | 81.6   | 82.4   | 83.5   | 85.0   | 86.1   | 87.4   | 87.1   | 84.1   | 83.8   |     |     |     |     | 118.2 |
| (276. DEG F)       | 1200  | 77.6   | 82.1   | 82.4   | 87.4   | 85.1   | 87.1   | 88.7   | 89.9   | 89.1   | 84.8   | 84.1   |     |     |     |     | 123.0 |
| MACT 4.60 CM/H3    | 1400  | 77.9   | 81.6   | 84.1   | 86.2   | 89.1   | 89.6   | 90.4   | 90.9   | 89.6   | 84.6   | 82.6   |     |     |     |     | 121.7 |
| (100100. CM/H3)    | 2000  | 87.9   | 88.2   | 82.6   | 94.3   | 87.7   | 101.1  | 100.4  | 100.1  | 96.1   | 91.6   | 87.6   |     |     |     |     | 131.2 |
| NFA 7501. RPM      | 2500  | 81.4   | 86.1   | 89.4   | 92.0   | 94.4   | 95.1   | 95.1   | 97.1   | 93.6   | 88.5   | 85.3   |     |     |     |     | 127.1 |
| ( 827. RAD/SEC)    | 3100  | 81.1   | 86.6   | 89.4   | 92.6   | 94.4   | 94.9   | 95.1   | 97.3   | 94.6   | 89.2   | 86.0   |     |     |     |     | 127.3 |
| NFR 828. RPM       | 4000  | 83.1   | 88.1   | 91.6   | 94.8   | 96.7   | 98.1   | 98.8   | 99.8   | 95.8   | 91.1   | 88.5   |     |     |     |     | 129.9 |
| ( 840. RAD/SEC)    | 5000  | 80.4   | 88.8   | 90.0   | 93.3   | 95.7   | 96.8   | 97.5   | 97.7   | 93.3   | 88.6   | 84.9   |     |     |     |     | 128.4 |
| NFC 8623. RPM      | 6300  | 80.9   | 87.4   | 91.0   | 93.4   | 95.0   | 96.8   | 97.0   | 98.3   | 93.3   | 88.8   | 84.8   |     |     |     |     | 128.4 |
| ( 924. RAD/SEC)    | 8000  | 78.8   | 84.8   | 88.3   | 90.9   | 93.0   | 94.0   | 95.6   | 97.0   | 92.0   | 87.5   | 83.7   |     |     |     |     | 126.7 |
| NO. OF BLADES 15   | 10000 | 79.1   | 84.4   | 88.1   | 91.3   | 92.8   | 94.3   | 95.9   | 96.6   | 92.6   | 87.3   | 83.6   |     |     |     |     | 126.8 |
| FAN TIP SPEED      | 12500 | 80.0   | 83.4   | 87.2   | 90.3   | 93.5   | 94.5   | 95.8   | 96.7   | 91.3   | 87.0   | 83.1   |     |     |     |     | 127.0 |
| 690. FT/SEC        | 16000 | 76.6   | 80.7   | 83.8   | 86.8   | 89.2   | 91.2   | 93.4   | 94.8   | 89.4   | 84.4   | 81.2   |     |     |     |     | 124.6 |
|                    | 20000 | 76.8   | 80.3   | 83.8   | 87.0   | 89.6   | 91.9   | 93.4   | 94.9   | 90.4   | 85.0   | 81.0   |     |     |     |     | 125.3 |
|                    | 25000 | 80.8   | 81.6   | 83.2   | 84.2   | 88.3   | 91.2   | 93.5   | 94.5   | 90.7   | 85.0   | 80.5   |     |     |     |     | 125.7 |
|                    | 31500 | 80.1   | 80.5   | 82.2   | 85.0   | 88.2   | 89.9   | 91.5   | 92.6   | 89.7   | 84.0   | 78.2   |     |     |     |     | 125.1 |
|                    | 40000 | 76.1   | 77.2   | 80.4   | 83.1   | 85.2   | 87.9   | 89.8   | 90.1   | 87.1   | 82.0   | 74.4   |     |     |     |     | 124.2 |
|                    | 50000 | 77.4   | 76.3   | 78.7   | 80.3   | 82.0   | 84.9   | 87.5   | 85.9   | 83.0   | 79.7   | 74.4   |     |     |     |     | 123.8 |
|                    | 63000 | 75.1   | 75.4   | 78.3   | 78.6   | 80.0   | 82.2   | 82.6   | 81.9   | 79.4   | 77.6   | 75.9   |     |     |     |     | 122.7 |
|                    | 80000 | 80.4   | 76.9   | 80.2   | 80.0   | 81.5   | 83.2   | 82.9   | 83.3   | 80.1   | 78.5   | 78.2   |     |     |     |     | 127.9 |
| OVERALL MEASURED   |       |  |        |        |        |        |        |        |        |        |        |        |     |     |     |     |       |
| OVERALL CALCULATED |       | 94.2   | 97.6   | 100.7  | 103.6  | 105.5  | 107.3  | 107.9  | 108.8  | 105.1  | 101.4  | 100.4  |     |     |     |     | 139.8 |
| PNDP               |       | 106.2  | 110.6  | 113.6  | 116.4  | 118.2  | 119.6  | 120.2  | 121.2  | 118.0  | 114.2  | 112.2  |     |     |     |     |       |

ANGLES FRC INLET IN DEGREES (AND RADIANS)

| FREQ.              | ANGLES FRC INLET IN DEGREES (AND RADIANS) |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|
|                    | 58.0                                      | 60.0   | 70.0   | 80.0   | 90.0   | 100.0  | 110.0  | 120.0  | 130.0  | 140.0  | 150.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 50                 | (1.22)                                    | (1.09) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 |
| 63                 |   |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| SIDELINE 200 FT.   | 100                                       | 51.0   | 52.3   | 54.1   | 54.3   | 55.4   | 55.7   | 55.2   | 54.4   | 55.0   | 56.9   | 57.9 |     |     |     |     |
| ( 80.98 M)         | 125                                       | 53.9   | 54.7   | 55.8   | 55.9   | 58.3   | 58.9   | 58.4   | 58.3   | 57.6   | 57.3   | 56.9 |     |     |     |     |
| VEHICLE R=55       | 160                                       | 54.8   | 54.1   | 55.2   | 56.1   | 56.7   | 56.6   | 5A.1   | 58.4   | 58.5   | 58.6   | 56.9 |     |     |     |     |
| CONFIC 19          | 200                                       | 53.2   | 53.3   | 55.4   | 56.3   | 57.9   | 59.7   | 59.0   | 60.3   | 59.6   | 59.4   | 57.7 |     |     |     |     |
| LCC SCHENECTADY    | 250                                       | 55.1   | 55.9   | 58.5   | 60.7   | 61.3   | 61.9   | 62.4   | 62.2   | 60.8   | 59.0   | 57.2 |     |     |     |     |
| DATE 11/15/74      | 315                                       | 54.7   | 57.1   | 58.5   | 59.9   | 60.2   | 61.3   | 60.5   | 60.6   | 59.9   | 59.8   | 55.9 |     |     |     |     |
| RUN 1977           | 400                                       | 53.7   | 55.5   | 57.1   | 58.0   | 58.9   | 59.5   | 59.7   | 60.0   | 58.5   | 56.9   | 53.7 |     |     |     |     |
| TAPE               | 500                                       | 52.6   | 54.4   | 56.3   | 57.7   | 58.8   | 59.9   | 60.1   | 59.8   | 59.1   | 56.2   | 51.9 |     |     |     |     |
| BAR 29.7 MG        | 630                                       | 54.0   | 56.6   | 58.2   | 60.4   | 61.5   | 62.8   | 62.2   | 61.7   | 60.2   | 56.8   | 52.1 |     |     |     |     |
| ( 100102. N/M2)    | 800                                       | 55.1   | 58.4   | 61.3   | 61.7   | 61.9   | 62.4   | 63.1   | 62.3   | 60.5   | 56.1   | 52.8 |     |     |     |     |
| TAPB 43. DEG F     | 1000                                      | 53.5   | 56.3   | 58.9   | 59.9   | 61.2   | 62.1   | 62.4   | 62.4   | 60.3   | 54.6   | 49.6 |     |     |     |     |
| ( 1279. DEG F)     | 1200                                      | 53.3   | 56.7   | 59.6   | 60.8   | 62.4   | 63.9   | 64.8   | 64.7   | 62.1   | 55.1   | 49.5 |     |     |     |     |
| THEY 30. DEG F     | 1600                                      | 53.4   | 55.0   | 61.1   | 63.4   | 65.3   | 66.3   | 66.3   | 65.5   | 62.4   | 54.5   | 47.5 |     |     |     |     |
| ( 1276. DEG F)     | 2000                                      | 59.2   | 55.1   | 69.4   | 73.3   | 74.6   | 77.6   | 76.1   | 74.5   | 68.6   | 61.1   | 51.9 |     |     |     |     |
| HACT 4.65 GH/M3    | 2500                                      | 56.5   | 62.2   | 66.3   | 68.9   | 71.2   | 71.4   | 70.6   | 71.3   | 65.8   | 57.8   | 49.2 |     |     |     |     |
| ( 100400 KG/M3)    | 3150                                      | 55.9   | 62.4   | 65.7   | 69.2   | 70.9   | 70.9   | 70.3   | 71.2   | 66.4   | 57.8   | 49.1 |     |     |     |     |
| NFA 7961. RPM      | 4000                                      | 57.4   | 63.4   | 67.5   | 71.0   | 72.5   | 73.7   | 73.5   | 73.1   | 67.0   | 58.9   | 50.3 |     |     |     |     |
| ( 827. RAD/SEC)    | 5000                                      | 54.8   | 61.9   | 65.7   | 69.2   | 71.5   | 72.1   | 71.9   | 70.7   | 64.1   | 55.9   | 46.0 |     |     |     |     |
| NFK 8726. RPM      | 6300                                      | 54.0   | 61.7   | 65.9   | 69.7   | 70.2   | 71.4   | 70.7   | 70.4   | 63.0   | 54.7   | 43.8 |     |     |     |     |
| ( 840. RAD/SEC)    | 8000                                      | 59.6   | 58.0   | 62.1   | 65.1   | 67.3   | 67.4   | 68.2   | 67.7   | 59.9   | 51.2   | 39.4 |     |     |     |     |
| NFD 8823. RPM      | 10000                                     | 49.1   | 55.9   | 60.4   | 63.9   | 65.3   | 66.2   | 66.6   | 65.3   | 58.2   | 48.0   | 34.9 |     |     |     |     |
| ( 924. RAD/SEC)    | 12500                                     | 47.5   | 52.5   | 57.3   | 60.8   | 63.8   | 64.1   | 63.9   | 62.5   | 53.6   | 43.2   | 27.8 |     |     |     |     |
| NG. OF BLADES 15   | 16000                                     | 39.7   | 45.9   | 50.2   | 53.6   | 55.9   | 57.0   | 57.4   | 55.9   | 46.0   | 33.3   | 19.0 |     |     |     |     |
| FAN TIP SPEED      | 20000                                     | 34.3   | 40.4   | 45.3   | 49.1   | 51.5   | 52.7   | 52.0   | 49.9   | 39.6   | 24.3   | 0.6  |     |     |     |     |
| 690. FT/SEC        | 25000                                     | 30.2   | 34.3   | 37.8   | 41.5   | 43.9   | 44.6   | 44.3   | 40.7   | 29.4   | 10.7   |      |     |     |     |     |
|                    | 31500                                     | 17.7   | 22.4   | 26.6   | 30.4   | 33.2   | 33.1   | 31.0   | 25.8   | 12.9   |        |      |     |     |     |     |
|                    | 40000                                     |        | 3.1    | 9.7    | 13.8   | 15.3   | 15.4   | 12.4   | 4.2    |        |        |      |     |     |     |     |
|                    | 50000                                     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
|                    | 63000                                     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
|                    | 80000                                     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| OVERALL CALCULATED |   | 64.1   | 72.6   | 76.2   | 79.3   | 80.9   | 82.3   | 81.7   | 81.1   | 76.0   | 70.4   | 66.6 |     |     |     |     |
| PLSE               |   | 83.8   | 86.1   | 89.7   | 92.7   | 94.4   | 95.7   | 95.1   | 94.7   | 89.5   | 82.6   | 75.3 |     |     |     |     |



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MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. PAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | 58.    | 60.    | 78.    | 88.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.  | 0.  | 0.  | 0.  | 0.   | PWL   |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|------|-------|
| FREQ.               | (1.02) | (1.12) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.  | (0. | (0. | (0. | (0. | (0.) |       |
| RADIAL 17. FT       |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |       |
| 50                  |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |       |
| 63                  |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |       |
| 80                  |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |       |
| VEHICLE (S. H) R=55 | 100    | 73.5   | 74.3   | 76.1   | 76.3   | 77.5   | 78.7   | 79.2   | 78.9   | 80.3   | 84.8   | 88.8 |     |     |     |     |      | 114.0 |
| CONFIC 19           | 125    | 77.0   | 76.5   | 76.6   | 77.8   | 80.3   | 81.0   | 81.4   | 82.6   | 83.3   | 85.1   | 88.5 |     |     |     |     |      | 115.5 |
| LCC SCHEMECTADV     | 160    | 76.5   | 75.5   | 77.1   | 78.6   | 78.5   | 80.2   | 81.7   | 82.9   | 84.6   | 86.6   | 88.3 |     |     |     |     |      | 115.8 |
| DATE 11/15/74       | 200    | 75.2   | 76.0   | 77.1   | 78.3   | 80.0   | 82.2   | 82.2   | 84.1   | 85.1   | 87.5   | 90.0 |     |     |     |     |      | 116.8 |
| RUN 19/8            | 250    | 77.5   | 79.5   | 81.6   | 82.8   | 83.3   | 84.2   | 85.4   | 86.1   | 86.1   | 87.5   | 89.3 |     |     |     |     |      | 116.4 |
| TAPE                | 315    | 77.7   | 79.8   | 81.1   | 81.9   | 82.3   | 83.2   | 83.9   | 84.9   | 85.6   | 86.8   | 88.3 |     |     |     |     |      | 117.5 |
| BAR 29.7 HG         | 400    | 76.8   | 78.0   | 79.1   | 80.1   | 81.3   | 82.5   | 83.2   | 83.9   | 84.1   | 85.6   | 86.5 |     |     |     |     |      | 116.2 |
| (1031.62. N/MHZ)    | 500    | 75.3   | 77.5   | 78.1   | 79.9   | 80.8   | 82.3   | 83.2   | 84.4   | 84.3   | 84.6   | 85.0 |     |     |     |     |      | 115.9 |
| TAMP 44. DEG F      | 630    | 77.3   | 79.3   | 81.1   | 82.4   | 83.8   | 85.3   | 85.7   | 86.6   | 86.1   | 85.6   | 85.0 |     |     |     |     |      | 116.1 |
| (280. DEG K)        | 800    | 81.8   | 81.5   | 83.6   | 83.1   | 84.6   | 85.3   | 86.4   | 87.1   | 86.8   | 85.6   | 85.6 |     |     |     |     |      | 118.9 |
| THEY 38. DEG F      | 1000   | 77.6   | 79.5   | 81.6   | 82.1   | 83.6   | 85.5   | 86.2   | 87.6   | 86.8   | 83.8   | 83.3 |     |     |     |     |      | 118.2 |
| (1276. DEG K)       | 1250   | 77.1   | 80.1   | 81.9   | 83.4   | 84.9   | 87.3   | 88.4   | 89.6   | 88.4   | 84.4   | 83.6 |     |     |     |     |      | 119.8 |
| MACT 4.30 GM/M3     | 1600   | 77.6   | 81.3   | 83.9   | 85.5   | 87.9   | 89.6   | 89.9   | 90.6   | 88.9   | 84.4   | 82.3 |     |     |     |     |      | 121.3 |
| (100430 KG/M3)      | 2000   | 84.1   | 88.6   | 91.6   | 96.3   | 97.4   | 100.3  | 100.4  | 99.6   | 96.6   | 91.6   | 87.1 |     |     |     |     |      | 138.9 |
| NFA 7296. RPM       | 2500   | 80.9   | 85.1   | 88.9   | 92.3   | 93.9   | 95.1   | 95.4   | 96.9   | 93.4   | 87.9   | 85.1 |     |     |     |     |      | 127.0 |
| (827. RAD/SEC)      | 3150   | 81.1   | 86.6   | 89.1   | 92.6   | 94.5   | 95.4   | 95.1   | 97.3   | 94.1   | 88.7   | 85.6 |     |     |     |     |      | 127.3 |
| NFK 8013. RPM       | 4000   | 82.8   | 88.6   | 91.1   | 95.1   | 96.2   | 97.6   | 98.6   | 99.0   | 95.6   | 90.8   | 87.5 |     |     |     |     |      | 129.5 |
| (839. RAD/SEC)      | 5000   | 80.3   | 87.1   | 89.8   | 93.3   | 94.9   | 96.3   | 97.3   | 97.2   | 93.1   | 88.1   | 84.5 |     |     |     |     |      | 128.0 |
| NFD 8823. RPM       | 6300   | 80.4   | 87.2   | 91.2   | 93.2   | 95.1   | 96.1   | 97.3   | 97.3   | 92.8   | 88.6   | 84.6 |     |     |     |     |      | 126.3 |
| (924. RAD/SEC)      | 8000   | 78.5   | 84.9   | 88.3   | 91.0   | 92.5   | 94.2   | 95.6   | 97.1   | 92.2   | 87.1   | 82.9 |     |     |     |     |      | 126.7 |
| NO. OF BLADES 15    | 10000  | 79.1   | 84.5   | 87.6   | 91.1   | 92.6   | 94.1   | 95.7   | 96.6   | 91.9   | 87.1   | 82.9 |     |     |     |     |      | 126.8 |
| FAN TIP SPEED 12500 | 12500  | 79.4   | 83.5   | 87.2   | 89.9   | 93.1   | 94.6   | 95.6   | 96.5   | 91.1   | 86.8   | 82.9 |     |     |     |     |      | 126.8 |
| 689. FT/SEC         | 16000  | 75.9   | 80.5   | 84.2   | 88.9   | 89.6   | 90.6   | 92.5   | 94.3   | 89.2   | 84.5   | 80.5 |     |     |     |     |      | 124.2 |
|                     | 20000  | 76.7   | 80.6   | 83.9   | 87.6   | 89.2   | 91.8   | 93.5   | 94.5   | 90.0   | 84.8   | 80.6 |     |     |     |     |      | 125.1 |
|                     | 25000  | 80.3   | 81.5   | 83.4   | 86.7   | 87.2   | 91.0   | 93.2   | 94.3   | 90.3   | 84.3   | 80.5 |     |     |     |     |      | 125.5 |
|                     | 31500  | 80.1   | 80.7   | 81.7   | 85.3   | 88.0   | 90.0   | 91.6   | 92.6   | 89.0   | 83.7   | 78.5 |     |     |     |     |      | 125.0 |
|                     | 40000  | 75.8   | 77.1   | 80.0   | 83.3   | 84.9   | 87.3   | 89.5   | 89.6   | 86.3   | 81.4   | 74.9 |     |     |     |     |      | 123.8 |
|                     | 50000  | 77.2   | 76.4   | 78.9   | 80.4   | 82.1   | 85.0   | 87.3   | 85.5   | 83.1   | 79.4   | 74.8 |     |     |     |     |      | 123.8 |
|                     | 63000  | 78.1   | 75.6   | 78.6   | 79.4   | 80.5   | 82.8   | 83.6   | 81.9   | 80.4   | 78.1   | 75.2 |     |     |     |     |      | 123.3 |
|                     | 80000  | 80.1   | 78.6   | 80.1   | 81.4   | 83.2   | 85.1   | 85.3   | 84.8   | 82.8   | 79.5   | 77.9 |     |     |     |     |      | 129.4 |
| OVERALL MEASURED    |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |       |
| OVERALL CALCULATED  | 93.9   | 97.7   | 100.5  | 103.6  | 105.3  | 107.0  | 107.8  | 108.5  | 104.9  | 101.2  | 100.1  |      |     |     |     |     |      | 139.8 |
| PNDB                | 105.9  | 110.8  | 113.3  | 116.5  | 117.8  | 119.3  | 120.1  | 120.8  | 117.7  | 113.8  | 111.6  |      |     |     |     |     |      |       |

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 OF FOUR COPIES

MOTEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. EAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ. (1.32) (1.19) (1.36) (1.53) (1.71) (1.88) (2.06) (2.24) (2.42) (2.60) (2.78) (0. ) (0. ) (0. ) (0. ) (0. ) (0. ) (0. ) (0. ) (0. ) (0. )

|                    | 58.   | 60.  | 70.  | 80.  | 90.  | 100. | 110. | 120. | 130. | 140. | 150. | 0.   | 0.   | 0. | 0. | 0. | 0. | 0. | 0. |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|
| SC                 |       |      |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| 63                 |       |      |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| 80                 |       |      |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| SIRELLA 200. FT.   | 100   | 50.5 | 52.3 | 54.4 | 54.8 | 55.9 | 56.7 | 56.5 | 55.1 | 55.0 | 57.2 | 57.4 |      |    |    |    |    |    |    |
| ( 60.96 M)         | 125   | 53.9 | 54.2 | 54.8 | 54.8 | 56.2 | 56.3 | 56.9 | 56.8 | 56.8 | 57.9 | 57.3 | 56.9 |    |    |    |    |    |    |
| VEHICLE R=55       | 160   | 53.3 | 54.1 | 55.2 | 56.9 | 56.7 | 58.0 | 58.8 | 58.9 | 59.0 | 58.6 | 56.4 |      |    |    |    |    |    |    |
| CONFIG 19          | 230   | 51.9 | 53.4 | 55.1 | 54.5 | 54.1 | 60.0 | 59.2 | 60.0 | 59.4 | 59.4 | 57.9 |      |    |    |    |    |    |    |
| LCC SCHEMECTADY    | 250   | 54.1 | 55.2 | 59.5 | 60.9 | 61.3 | 61.9 | 62.4 | 61.9 | 60.3 | 59.3 | 56.9 |      |    |    |    |    |    |    |
| DATE 11/15/74      | 315   | 54.2 | 57.1 | 59.0 | 59.9 | 60.2 | 60.8 | 60.8 | 60.6 | 59.6 | 58.3 | 55.7 |      |    |    |    |    |    |    |
| RUN 19/8           | 400   | 53.2 | 55.3 | 56.9 | 57.3 | 59.1 | 60.0 | 59.9 | 59.5 | 58.0 | 56.9 | 53.7 |      |    |    |    |    |    |    |
| TAPE               | 500   | 51.6 | 54.7 | 55.8 | 57.7 | 58.6 | 59.6 | 59.8 | 59.9 | 58.1 | 55.7 | 51.9 |      |    |    |    |    |    |    |
| BAR 29.7 HG        | 630   | 53.5 | 56.3 | 58.7 | 60.1 | 61.5 | 62.5 | 62.2 | 62.0 | 59.7 | 56.5 | 51.6 |      |    |    |    |    |    |    |
| (00162. N/M2)      | 630   | 57.9 | 58.4 | 61.1 | 60.8 | 62.1 | 62.4 | 62.8 | 62.3 | 60.3 | 56.3 | 51.8 |      |    |    |    |    |    |    |
| TAMB 44. DEG F     | 1000  | 53.5 | 54.3 | 54.9 | 54.6 | 61.0 | 62.6 | 62.4 | 62.7 | 60.1 | 54.3 | 49.1 |      |    |    |    |    |    |    |
| (280. DEG K)       | 1250  | 52.8 | 55.7 | 59.1 | 60.8 | 62.1 | 64.2 | 64.5 | 64.5 | 61.4 | 54.6 | 49.0 |      |    |    |    |    |    |    |
| TACT 36. DEG F     | 1500  | 53.1 | 57.8 | 60.9 | 62.7 | 65.0 | 66.3 | 65.8 | 65.3 | 61.6 | 54.3 | 47.2 |      |    |    |    |    |    |    |
| (279. DEG K)       | 2000  | 59.4 | 64.9 | 68.5 | 73.3 | 74.4 | 76.9 | 76.1 | 74.0 | 69.1 | 61.1 | 51.4 |      |    |    |    |    |    |    |
| HACT 4.30 CM/M3    | 2500  | 56.0 | 62.2 | 65.5 | 69.2 | 70.7 | 71.4 | 70.9 | 71.1 | 65.6 | 57.1 | 48.9 |      |    |    |    |    |    |    |
| (-00430 CM/M3)     | 3150  | 55.9 | 62.4 | 65.5 | 69.2 | 71.0 | 71.4 | 70.3 | 71.2 | 65.9 | 57.3 | 48.6 |      |    |    |    |    |    |    |
| NFA 7896. RPM      | 4000  | 57.1 | 63.9 | 67.0 | 71.3 | 72.3 | 73.2 | 73.3 | 72.3 | 66.7 | 58.4 | 49.3 |      |    |    |    |    |    |    |
| ( 827. RAD/SEC)    | 5000  | 54.3 | 62.2 | 65.5 | 69.2 | 70.8 | 71.7 | 71.7 | 70.2 | 63.8 | 55.4 | 45.5 |      |    |    |    |    |    |    |
| NFK 8013. RPM      | 6300  | 53.5 | 61.5 | 66.2 | 64.4 | 70.2 | 70.7 | 70.9 | 70.4 | 62.5 | 54.4 | 43.5 |      |    |    |    |    |    |    |
| ( 839. RAD/SEC)    | 8000  | 53.4 | 58.0 | 62.2 | 65.1 | 66.6 | 67.7 | 68.0 | 67.7 | 60.2 | 58.8 | 38.7 |      |    |    |    |    |    |    |
| MFD 8823. RPM      | 10000 | 49.2 | 56.0 | 59.9 | 63.7 | 65.1 | 66.0 | 66.4 | 65.3 | 57.5 | 47.8 | 34.2 |      |    |    |    |    |    |    |
| ( 924. RAD/SEC)    | 12500 | 46.8 | 52.6 | 57.3 | 60.3 | 63.4 | 64.1 | 63.7 | 62.3 | 53.4 | 43.0 | 27.6 |      |    |    |    |    |    |    |
| NO. OF BLADES 15   | 16000 | 39.1 | 45.7 | 53.5 | 53.7 | 56.2 | 56.6 | 56.5 | 55.5 | 45.9 | 33.4 | 14.3 |      |    |    |    |    |    |    |
| FAN TIP SPEED      | 20000 | 34.2 | 40.7 | 45.4 | 49.7 | 51.1 | 52.5 | 52.1 | 49.5 | 39.2 | 24.1 | 0.2  |      |    |    |    |    |    |    |
| 689. FT/SEC        | 25000 | 29.8 | 34.3 | 38.0 | 42.0 | 44.2 | 44.6 | 44.1 | 40.4 | 28.9 | 9.9  |      |      |    |    |    |    |    |    |
|                    | 31500 | 17.7 | 22.7 | 26.1 | 30.7 | 33.0 | 33.1 | 31.0 | 25.0 | 12.1 |      |      |      |    |    |    |    |    |    |
|                    | 40000 |      | 3.1  | 9.4  | 14.0 | 15.0 | 14.9 | 12.1 | 3.7  |      |      |      |      |    |    |    |    |    |    |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| OVERALL CALCULATED |       | 67.8 | 72.7 | 75.9 | 79.3 | 80.7 | 81.9 | 81.6 | 80.8 | 75.8 | 70.3 | 66.3 |      |    |    |    |    |    |    |
| PNDB               |       | 60.5 | 66.3 | 69.4 | 72.8 | 74.0 | 73.3 | 73.0 | 74.3 | 69.2 | 62.2 | 74.7 |      |    |    |    |    |    |    |



|                    | 50     | 55     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0 | 0 | 0 | 0 | 0 |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---|---|---|---|
| FREQ.              | (1.52) | (1.19) | (1.36) | (1.53) | (1.71) | (1.90) | (2.08) | (2.26) | (2.44) | (2.62) | (2.80) | (2.98) | 0 | 0 | 0 | 0 | 0 |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |
| ( 60.96 M)         | 100    | 45.5   | 49.8   | 54.2   | 55.1   | 53.9   | 52.7   | 49.7   | 45.6   | 45.6   | 47.3   | 46.4   |   |   |   |   |   |
| VEHICLE R-55       | 125    | 44.6   | 43.8   | 48.8   | 46.7   | 49.8   | 46.7   | 46.2   | 47.6   | 47.0   | 45.9   | 44.5   |   |   |   |   |   |
| CONFIG 19          | 160    | 44.7   | 44.2   | 45.5   | 45.7   | 46.2   | 46.8   | 47.3   | 47.4   | 48.1   | 47.7   | 44.7   |   |   |   |   |   |
| LCC SCHENECTADY    | 200    | 44.2   | 44.1   | 45.2   | 46.6   | 48.4   | 49.7   | 49.5   | 50.1   | 49.2   | 49.1   | 46.2   |   |   |   |   |   |
| DATE 11/15/74      | 250    | 43.1   | 46.0   | 47.8   | 49.2   | 49.8   | 50.2   | 50.1   | 50.0   | 48.3   | 47.8   | 44.2   |   |   |   |   |   |
| RUN 19/9           | 315    | 44.5   | 47.2   | 49.0   | 49.9   | 50.5   | 50.0   | 50.3   | 50.1   | 49.0   | 47.7   | 44.5   |   |   |   |   |   |
| TAPE               | 400    | 43.7   | 45.6   | 48.2   | 49.3   | 49.7   | 51.0   | 50.2   | 50.3   | 49.1   | 46.8   | 42.7   |   |   |   |   |   |
| BAR 29.7 HG        | 500    | 42.6   | 45.2   | 46.6   | 48.0   | 49.6   | 50.4   | 50.6   | 49.7   | 47.9   | 46.1   | 43.7   |   |   |   |   |   |
| (00162. N/M2)      | 600    | 44.3   | 47.4   | 49.2   | 51.4   | 52.5   | 53.3   | 53.2   | 52.8   | 51.3   | 48.7   | 41.4   |   |   |   |   |   |
| TANK 44. DEG F     | 800    | 43.1   | 49.0   | 51.6   | 51.8   | 53.4   | 54.2   | 54.8   | 54.4   | 52.4   | 48.9   | 42.3   |   |   |   |   |   |
| (280. DEG F)       | 1000   | 44.5   | 48.1   | 50.7   | 51.9   | 53.0   | 54.6   | 54.7   | 54.7   | 53.7   | 48.4   | 39.7   |   |   |   |   |   |
| TWET 38. DEG F     | 1250   | 49.7   | 53.2   | 54.9   | 56.6   | 58.9   | 60.0   | 61.3   | 61.0   | 60.2   | 55.2   | 45.3   |   |   |   |   |   |
| (276. DEG K)       | 1600   | 47.4   | 52.3   | 54.9   | 57.5   | 59.3   | 60.6   | 60.8   | 61.1   | 59.0   | 52.9   | 42.3   |   |   |   |   |   |
| HACT 4.33 G/M3     | 2000   | 47.2   | 53.2   | 55.2   | 59.1   | 61.4   | 62.9   | 62.4   | 60.1   | 57.0   | 51.0   | 41.5   |   |   |   |   |   |
| (.00430 KG/M3)     | 2500   | 48.8   | 55.0   | 57.8   | 61.2   | 63.2   | 64.5   | 64.9   | 63.8   | 62.2   | 52.9   | 43.5   |   |   |   |   |   |
| MFA 5532. RPM      | 3150   | 47.7   | 54.0   | 56.8   | 60.7   | 63.0   | 63.7   | 64.1   | 63.2   | 62.3   | 52.9   | 42.6   |   |   |   |   |   |
| ( 579. RAD/SEC)    | 4000   | 46.2   | 52.5   | 55.5   | 59.8   | 62.0   | 62.7   | 63.3   | 63.4   | 60.1   | 51.8   | 41.1   |   |   |   |   |   |
| MFK 5614. RPM      | 5000   | 44.1   | 50.5   | 53.8   | 58.3   | 60.5   | 61.7   | 61.5   | 61.0   | 58.7   | 49.0   | 37.6   |   |   |   |   |   |
| ( 588. RAD/SEC)    | 6000   | 42.3   | 48.3   | 52.0   | 56.2   | 58.7   | 59.0   | 59.4   | 59.9   | 56.8   | 46.3   | 35.1   |   |   |   |   |   |
| MFD 8823. RPM      | 8000   | 39.2   | 45.3   | 49.0   | 53.2   | 55.3   | 56.8   | 57.3   | 57.0   | 54.3   | 43.9   | 38.7   |   |   |   |   |   |
| ( 924. RAD/SEC)    | 10000  | 38.2   | 43.1   | 46.5   | 51.5   | 53.4   | 54.5   | 55.4   | 55.1   | 51.6   | 40.4   | 25.7   |   |   |   |   |   |
| NO. OF BLADES 15   | 12500  | 36.6   | 39.4   | 43.0   | 47.5   | 51.1   | 51.7   | 52.5   | 52.1   | 47.2   | 34.6   | 18.6   |   |   |   |   |   |
| FAN TIP SPEED      | 16000  | 28.3   | 32.8   | 37.1   | 41.3   | 44.2   | 45.8   | 46.3   | 45.3   | 39.7   | 25.7   | 6.4    |   |   |   |   |   |
| 483. FT/SEC        | 20000  | 23.2   | 26.8   | 31.7   | 37.0   | 38.6   | 40.5   | 40.6   | 39.3   | 32.8   | 16.8   |        |   |   |   |   |   |
|                    | 25000  | 18.8   | 20.4   | 23.4   | 28.3   | 30.0   | 31.4   | 30.4   | 27.2   | 19.3   | 0.3    |        |   |   |   |   |   |
|                    | 31500  | 8.7    | 12.5   | 12.7   | 17.8   | 20.0   | 20.4   | 18.5   | 14.4   | 3.2    |        |        |   |   |   |   |   |
|                    | 40000  |        |        |        | 0.8    | 2.2    | 2.4    |        |        |        |        |        |   |   |   |   |   |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |
|                    | 60000  |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |
|                    | AC000  |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |
| OVERALL CALCULATED | 58.9   | 63.3   | 66.0   | 69.1   | 71.0   | 72.0   | 72.3   | 71.7   | 69.8   | 63.0   | 56.1   |        |   |   |   |   |   |
| PNDB               | 71.0   | 76.4   | 79.2   | 82.7   | 84.7   | 85.5   | 85.8   | 85.3   | 83.6   | 75.7   | 66.5   |        |   |   |   |   |   |

MODEL SOUND PRESSURE LEVELS (50, 60, 70 PERCENT DEL. NUM. DAT)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| RACIAL             | 17. FL      | FRE. (11.02)(1.17)(1.06)(1.53)(1.71)(1.00)(2.06)(2.24)(2.42)(2.00)(2.78)(0. 110. 110. 110. 110. 110. ) |      |       |       |       |       |       |       |       |       |       |       | PWL |    |    |
|--------------------|-------------|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|----|----|
|                    |             | 50   | 60   | 70    | 85    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 0.    |     | 0. | 0. |
| VEHICLE            | 100         | 69.7   | 72.3 | 77.2  | 77.4  | 77.8  | 76.5  | 73.7  | 70.9  | 71.9  | 79.4  | 78.4  | 110.0 |     |    |    |
| CONFIG             | 120         | 69.5   | 68.3 | 70.7  | 70.1  | 71.0  | 68.8  | 66.2  | 70.9  | 72.7  | 74.1  | 76.6  | 105.3 |     |    |    |
| LCC SCHEMECTAV     | 200         | 71.7   | 66.8 | 69.4  | 68.4  | 70.5  | 72.3  | 72.9  | 74.4  | 74.6  | 78.1  | 78.4  | 107.0 |     |    |    |
| DATE               | 11/15/74    | 200  | 71.0 | 68.6  | 72.2  | 71.6  | 71.5  | 72.7  | 73.7  | 73.9  | 74.6  | 76.1  | 76.9  |     |    |    |
| TIME               | 15/1        | 315  | 69.5 | 70.1  | 71.4  | 72.1  | 72.5  | 73.5  | 73.2  | 74.4  | 74.9  | 74.3  | 76.6  |     |    |    |
| BAR                | 29.7 HG     | 400  | 69.5 | 69.2  | 73.2  | 71.4  | 72.0  | 73.3  | 73.4  | 74.4  | 75.1  | 75.4  | 74.0  |     |    |    |
| TANG               | 41. DEG F   | 500  | 69.5 | 68.6  | 68.9  | 70.2  | 71.1  | 72.6  | 73.9  | 74.7  | 74.4  | 74.9  | 74.1  |     |    |    |
| TREY               | 39. DEG F   | 1500   | 71.1 | 71.3  | 73.7  | 74.4  | 75.5  | 77.1  | 78.7  | 79.4  | 79.1  | 77.4  | 75.1  |     |    |    |
| MACT               | 5.72 CM/3   | 2000   | 71.1 | 71.3  | 73.9  | 74.3  | 76.1  | 77.0  | 77.7  | 80.2  | 80.6  | 77.5  | 74.4  |     |    |    |
| NFA                | 5527. RPM   | 3150   | 71.1 | 71.3  | 73.9  | 74.3  | 76.1  | 77.0  | 77.7  | 80.2  | 80.6  | 77.5  | 74.4  |     |    |    |
| NFY                | 5420. RPM   | 3000   | 69.6 | 75.7  | 77.9  | 78.5  | 81.6  | 83.4  | 84.4  | 85.9  | 86.4  | 82.9  | 76.9  |     |    |    |
| NFD                | 8923. RPM   | 8000   | 69.6 | 74.4  | 77.9  | 81.3  | 83.7  | 85.6  | 85.9  | 85.4  | 84.9  | 80.9  | 76.6  |     |    |    |
| NC. OF BLADES      | 15          | 12500  | 71.1 | 75.4  | 82.1  | 84.4  | 85.9  | 86.6  | 89.4  | 90.1  | 90.4  | 84.7  | 81.4  |     |    |    |
| FAN TIP SPEED      | 462. FT/SEC | 20000  | 71.1 | 75.4  | 82.1  | 84.4  | 85.9  | 86.6  | 89.4  | 90.1  | 90.4  | 84.7  | 81.4  |     |    |    |
| OVERALL MEASURED   |             |  | 83.3 | 87.6  | 90.5  | 93.3  | 95.3  | 97.0  | 98.6  | 99.3  | 99.4  | 94.5  | 92.4  |     |    |    |
| OVERALL CALCULATED |             |  | 86.8 | 105.8 | 103.8 | 106.5 | 108.5 | 110.2 | 110.8 | 112.5 | 112.2 | 107.3 | 104.2 |     |    |    |

ANGLES FROM INLET IN DEGREES (AND VARIATIONS)

|                    | 5g     | 6g     | 7g     | 8g     | 9g     | 10g    | 11g    | 12g    | 13g    | 14g    | 15g    | 0g     | 0g     | 0g     | 0g     |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ:              | (1.02) | (1.12) | (1.25) | (1.41) | (1.58) | (1.77) | (1.99) | (2.24) | (2.52) | (2.83) | (3.18) | (3.57) | (4.00) | (4.48) | (5.00) |
| SIDELINE 200 FT    | 59     | 63     | 67     | 71     | 75     | 79     | 83     | 87     | 91     | 95     | 99     | 103    | 107    | 111    | 115    |
| 1 60.00 F1         | 152    | 44.7   | 50.1   | 53.4   | 56.4   | 59.1   | 61.5   | 63.7   | 65.7   | 67.5   | 69.1   | 70.6   | 72.0   | 73.3   | 74.5   |
| VEHICLE R-55       | 175    | 45.4   | 50.3   | 53.4   | 56.4   | 59.1   | 61.5   | 63.7   | 65.7   | 67.5   | 69.1   | 70.6   | 72.0   | 73.3   | 74.5   |
| CONFIG 20          | 180    | 46.8   | 51.7   | 54.8   | 57.8   | 60.5   | 62.9   | 65.1   | 67.1   | 68.9   | 70.5   | 72.0   | 73.3   | 74.5   | 75.7   |
| LCC SCHEMELTAY     | 200    | 47.9   | 52.8   | 55.9   | 58.9   | 61.6   | 64.0   | 66.2   | 68.2   | 69.9   | 71.5   | 73.0   | 74.3   | 75.5   | 76.7   |
| DATE 11/15/74      | 250    | 47.6   | 52.5   | 55.6   | 58.6   | 61.3   | 63.7   | 65.9   | 67.9   | 69.6   | 71.2   | 72.7   | 74.0   | 75.2   | 76.4   |
| RUN 10/1           | 315    | 45.2   | 50.1   | 53.2   | 56.2   | 58.9   | 61.3   | 63.5   | 65.5   | 67.2   | 68.8   | 70.3   | 71.6   | 72.8   | 74.0   |
| TAPE               | 450    | 45.9   | 50.8   | 53.9   | 56.9   | 59.6   | 62.0   | 64.2   | 66.2   | 67.9   | 69.5   | 71.0   | 72.3   | 73.5   | 74.7   |
| BAR 29.7 FS        | 500    | 45.6   | 50.5   | 53.6   | 56.6   | 59.3   | 61.7   | 63.9   | 65.9   | 67.6   | 69.2   | 70.7   | 72.0   | 73.2   | 74.4   |
| 103295. 1/121      | 630    | 47.0   | 51.9   | 55.0   | 58.0   | 60.7   | 63.1   | 65.3   | 67.3   | 69.0   | 70.6   | 72.1   | 73.4   | 74.6   | 75.8   |
| TARA 41. DEG F     | 670    | 55.6   | 60.5   | 63.6   | 66.6   | 69.3   | 71.7   | 73.9   | 75.9   | 77.6   | 79.1   | 80.6   | 81.9   | 83.1   | 84.3   |
| 1279. DEG F1       | 1000   | 47.0   | 51.9   | 55.0   | 58.0   | 60.7   | 63.1   | 65.3   | 67.3   | 69.0   | 70.6   | 72.1   | 73.4   | 74.6   | 75.8   |
| Y-ET 39. DEG F     | 1250   | 46.4   | 51.3   | 54.4   | 57.4   | 60.1   | 62.5   | 64.7   | 66.7   | 68.4   | 70.0   | 71.5   | 72.8   | 74.0   | 75.2   |
| 1277. DEG F1       | 1600   | 45.1   | 50.0   | 53.1   | 56.1   | 58.8   | 61.2   | 63.4   | 65.4   | 67.1   | 68.7   | 70.2   | 71.5   | 72.7   | 73.9   |
| NACT 5.72 CM/MS    | 2000   | 51.9   | 56.8   | 59.9   | 62.9   | 65.6   | 68.0   | 70.2   | 72.2   | 73.9   | 75.5   | 77.0   | 78.3   | 79.5   | 80.7   |
| (-0072 KG/MS)      | 2500   | 46.7   | 51.6   | 54.7   | 57.7   | 60.4   | 62.8   | 64.9   | 66.9   | 68.6   | 70.1   | 71.4   | 72.6   | 73.8   | 75.0   |
| MFA 5322. RPM      | 3150   | 44.9   | 49.8   | 52.9   | 55.9   | 58.6   | 61.0   | 63.2   | 65.2   | 66.9   | 68.5   | 70.0   | 71.3   | 72.5   | 73.7   |
| ( 570. 442/SEC)    | 4000   | 43.8   | 48.7   | 51.8   | 54.8   | 57.5   | 59.9   | 62.1   | 64.1   | 65.8   | 67.4   | 68.9   | 70.2   | 71.4   | 72.6   |
| MFK 5020. RPM      | 5000   | 43.3   | 48.2   | 51.3   | 54.3   | 57.0   | 59.4   | 61.6   | 63.6   | 65.3   | 67.0   | 68.5   | 69.8   | 71.0   | 72.2   |
| ( 500. 442/SEC)    | 6300   | 42.7   | 47.6   | 50.7   | 53.7   | 56.4   | 58.8   | 61.0   | 63.0   | 64.7   | 66.3   | 67.8   | 69.1   | 70.3   | 71.5   |
| MFS 8823. RPM      | 8000   | 41.5   | 46.4   | 49.5   | 52.5   | 55.2   | 57.6   | 59.8   | 61.8   | 63.5   | 65.1   | 66.6   | 67.9   | 69.1   | 70.3   |
| ( 924. 442/SEC)    | 10000  | 40.7   | 45.6   | 48.7   | 51.7   | 54.4   | 56.8   | 59.0   | 61.0   | 62.7   | 64.3   | 65.8   | 67.1   | 68.3   | 69.5   |
| NO. OF BLADES 15   | 12500  | 39.8   | 44.7   | 47.8   | 50.8   | 53.5   | 55.9   | 58.1   | 60.1   | 61.8   | 63.4   | 64.9   | 66.2   | 67.4   | 68.6   |
| FAN TIP SPEED      | 16000  | 31.9   | 36.8   | 39.9   | 42.9   | 45.6   | 48.0   | 50.2   | 52.2   | 53.9   | 55.5   | 57.0   | 58.3   | 59.5   | 60.7   |
| 442. FT/SEC        | 20000  | 28.4   | 33.3   | 36.4   | 39.4   | 42.1   | 44.5   | 46.7   | 48.7   | 50.4   | 52.0   | 53.5   | 54.8   | 56.0   | 57.2   |
| 25000              | 22.8   | 27.7   | 30.8   | 33.8   | 36.5   | 38.9   | 41.1   | 43.1   | 44.8   | 46.4   | 47.9   | 49.2   | 50.4   | 51.6   | 52.8   |
| 31500              | 17.1   | 7.4    | 12.8   | 14.2   | 15.1   | 16.0   | 16.4   | 16.8   | 17.2   | 17.6   | 17.9   | 18.2   | 18.5   | 18.8   | 19.1   |
| 40000              |        |        |        | 0.1    | 1.8    | 2.9    |        |        |        |        |        |        |        |        |        |
| 50000              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 63000              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 80000              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED | 65.9   | 63.3   | 66.7   | 69.4   | 71.3   | 72.6   | 72.4   | 72.2   | 70.3   | 63.5   | 58.3   |        |        |        |        |
| PAGE               | 71.6   | 76.5   | 80.1   | 83.9   | 86.9   | 88.0   | 85.9   | 84.0   | 83.0   | 75.9   | 67.3   |        |        |        |        |

ORIGINAL PAGE IS OF POOR QUALITY

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MODEL SUBJECT EXPOSURE LEVELS (59. UFG, F<sub>2</sub> 20 PERCENT DEL. NUM. CAVI)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

| FAC.               | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  | 110°  | 120°  | 130°  | 140°  | 150°  | 0° |     |     |     |     | POL |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|-----|-----|-----|-----|-----|-------|
|                    |       |       |       |       |       |       |       |       |       |       |       |       | 0° | 10° | 20° | 30° | 40° |     |       |
| 50                 |       |       |       |       |       |       |       |       |       |       |       |       |    |     |     |     |     |     |       |
| 63                 |       |       |       |       |       |       |       |       |       |       |       |       |    |     |     |     |     |     |       |
| VEHICLE            | 100   | 71.5  | 74.6  | 72.7  | 72.1  | 74.0  | 74.3  | 73.2  | 74.4  | 73.9  | 77.9  | 81.9  |    |     |     |     |     |     | 100.0 |
| CONFIG             | 100   | 72.5  | 70.6  | 72.2  | 72.1  | 73.3  | 72.3  | 71.7  | 74.9  | 75.2  | 77.9  | 80.6  |    |     |     |     |     |     | 100.0 |
| LDC                | 200   | 78.7  | 80.3  | 79.4  | 71.6  | 73.3  | 75.8  | 76.2  | 78.7  | 78.0  | 81.1  | 82.9  |    |     |     |     |     |     | 110.0 |
| DATE 11/15/74      | 250   | 78.2  | 72.1  | 73.7  | 74.5  | 75.3  | 76.0  | 76.9  | 77.7  | 78.6  | 80.1  | 81.4  |    |     |     |     |     |     | 110.0 |
| R.Z. 1972          | 315   | 78.5  | 73.6  | 74.7  | 75.5  | 78.0  | 78.5  | 76.9  | 77.9  | 78.6  | 80.4  | 80.6  |    |     |     |     |     |     | 111.2 |
| TAPE               | 400   | 75.0  | 72.3  | 73.4  | 74.4  | 74.8  | 76.8  | 76.7  | 77.4  | 77.9  | 78.6  | 78.9  |    |     |     |     |     |     | 110.0 |
| CAF 20.7 MG        | 500   | 80.5  | 73.6  | 71.9  | 72.4  | 74.6  | 75.5  | 76.9  | 77.7  | 77.6  | 79.1  | 77.9  |    |     |     |     |     |     | 110.0 |
| (100295. 1/2)      | 630   | 83.8  | 72.5  | 73.4  | 76.2  | 77.1  | 78.6  | 79.2  | 80.4  | 80.9  | 80.4  | 78.4  |    |     |     |     |     |     | 111.4 |
| TAIN 41. DEG F     | 800   | 87.3  | 73.3  | 75.8  | 76.4  | 77.3  | 79.3  | 80.4  | 81.7  | 81.4  | 80.1  | 77.6  |    |     |     |     |     |     | 114.8 |
| (276. DEG F)       | 1000  | 87.5  | 73.6  | 75.9  | 77.4  | 76.3  | 79.8  | 81.4  | 82.9  | 83.1  | 80.1  | 77.6  |    |     |     |     |     |     | 114.2 |
| T-ET 39. DEG F     | 1250  | 71.1  | 75.7  | 77.6  | 77.2  | 77.9  | 83.3  | 84.7  | 85.9  | 86.2  | 81.7  | 78.9  |    |     |     |     |     |     | 110.2 |
| (277. DEG F)       | 1400  | 77.4  | 84.1  | 80.7  | 86.5  | 86.9  | 89.9  | 91.1  | 93.2  | 94.2  | 86.4  | 82.1  |    |     |     |     |     |     | 121.4 |
| MACT 5.72 57/43    | 2000  | 78.1  | 73.1  | 80.9  | 84.3  | 86.4  | 88.1  | 88.6  | 86.4  | 87.7  | 82.7  | 79.6  |    |     |     |     |     |     | 110.7 |
| (100572. 57/43)    | 2500  | 71.6  | 75.9  | 82.6  | 86.3  | 89.7  | 89.4  | 90.4  | 91.1  | 89.0  | 84.7  | 80.6  |    |     |     |     |     |     | 121.8 |
| NFA 6309. RPM      | 3150  | 73.3  | 82.7  | 85.6  | 89.9  | 91.2  | 92.0  | 94.8  | 95.3  | 95.4  | 88.9  | 85.3  |    |     |     |     |     |     | 129.7 |
| (851. RPM/SEC)     | 4000  | 71.3  | 80.6  | 84.3  | 87.3  | 89.6  | 91.1  | 92.0  | 92.5  | 91.6  | 89.9  | 81.5  |    |     |     |     |     |     | 123.1 |
| NFA 421. RPM       | 5200  | 71.5  | 81.1  | 85.5  | 89.8  | 90.4  | 91.3  | 92.4  | 92.7  | 91.5  | 85.4  | 81.8  |    |     |     |     |     |     | 123.9 |
| (672. RPM/SEC)     | 6300  | 73.0  | 73.4  | 81.7  | 85.7  | 87.5  | 89.7  | 90.2  | 91.5  | 90.8  | 88.0  | 80.3  |    |     |     |     |     |     | 121.4 |
| NFA 623. RPM       | 8000  | 69.6  | 77.3  | 80.7  | 84.4  | 86.4  | 88.1  | 89.0  | 90.7  | 89.9  | 83.2  | 78.6  |    |     |     |     |     |     | 120.0 |
| (924. RPM/SEC)     | 10000 | 71.7  | 76.4  | 80.0  | 83.9  | 85.7  | 86.2  | 89.0  | 91.5  | 90.3  | 83.8  | 79.6  |    |     |     |     |     |     | 121.1 |
| NO. OF BLAZES 15   | 12500 | 72.4  | 74.5  | 78.8  | 82.0  | 85.3  | 87.1  | 88.8  | 89.8  | 88.5  | 82.4  | 77.8  |    |     |     |     |     |     | 120.1 |
| FAW TIP SPEED      | 16000 | 70.3  | 71.7  | 75.2  | 78.6  | 82.0  | 84.9  | 86.4  | 88.1  | 85.3  | 79.7  | 75.5  |    |     |     |     |     |     | 117.9 |
| 521. FT/SEC        | 20000 | 72.3  | 72.9  | 74.3  | 79.2  | 81.1  | 83.4  | 86.1  | 88.2  | 86.2  | 79.3  | 74.8  |    |     |     |     |     |     | 110.2 |
|                    | 25000 | 73.6  | 80.9  | 73.0  | 77.0  | 79.2  | 82.0  | 84.0  | 85.8  | 84.3  | 77.8  | 74.1  |    |     |     |     |     |     | 110.9 |
|                    | 31500 | 73.8  | 80.7  | 72.1  | 76.5  | 78.4  | 81.6  | 83.2  | 84.8  | 83.9  | 76.9  | 73.5  |    |     |     |     |     |     | 117.1 |
|                    | 40000 | 73.4  | 87.3  | 80.9  | 73.9  | 76.0  | 79.2  | 81.6  | 82.2  | 81.4  | 75.5  | 71.5  |    |     |     |     |     |     | 110.3 |
|                    | 50000 | 76.1  | 86.3  | 80.3  | 70.1  | 72.3  | 75.4  | 78.2  | 77.9  | 77.5  | 71.5  | 72.7  |    |     |     |     |     |     | 114.9 |
|                    | 63000 | 73.2  | 85.3  | 80.5  | 87.7  | 89.3  | 79.9  | 73.2  | 72.8  | 73.0  | 68.5  | 74.3  |    |     |     |     |     |     | 115.1 |
|                    | 80000 | 81.4  | 88.3  | 71.2  | 80.5  | 69.4  | 70.4  | 71.1  | 70.3  | 69.6  | 82.8  | 71.9  |    |     |     |     |     |     | 120.1 |
| OVERALL MEASURED   |       |       |       |       |       |       |       |       |       |       |       |       |    |     |     |     |     |     |       |
| OVERALL CALCULATED |       | 93.3  | 91.3  | 94.6  | 97.1  | 98.9  | 100.8 | 101.9 | 102.9 | 102.4 | 98.8  | 94.4  |    |     |     |     |     |     | 123.8 |
| PHOT               |       | 101.6 | 104.7 | 107.6 | 110.6 | 112.3 | 113.8 | 115.3 | 116.1 | 115.9 | 110.8 | 107.6 |    |     |     |     |     |     |       |

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MODEL SOUND PRESSURE LEVELS (59, 60, 70 PERCENT REL. HUM. SAT)  
 ANGLES FROM TALET IN DEGREES (AND RADIAN)

|                    | 5%    | 10%  | 15%  | 20%  | 25%  | 30%  | 35%  | 40%  | 45%  | 50%  | 55%  | 60%  | 65% | 70% | 75% | 80% | 85% | 90% |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| SIZE 14E 200 FT    | 150   | 53.5 | 52.3 | 50.3 | 50.6 | 52.4 | 52.2 | 50.5 | 50.8 | 48.4 | 50.2 | 50.5 |     |     |     |     |     |     |
| VEHICLE 2-25       | 125   | 49.4 | 48.3 | 46.8 | 46.5 | 48.1 | 48.2 | 46.9 | 47.0 | 44.9 | 46.7 | 47.0 |     |     |     |     |     |     |
| CONFIG 20          | 100   | 47.3 | 47.4 | 45.5 | 45.4 | 47.7 | 47.7 | 46.3 | 46.3 | 44.1 | 45.9 | 46.2 |     |     |     |     |     |     |
| LCC SCHEDULE       | 250   | 55.4 | 54.8 | 52.4 | 52.4 | 54.9 | 54.9 | 53.5 | 53.5 | 51.2 | 53.0 | 53.3 |     |     |     |     |     |     |
| DATE 11/15/74      | 250   | 54.3 | 53.5 | 51.4 | 51.4 | 52.7 | 52.7 | 51.3 | 51.3 | 49.0 | 50.8 | 51.1 |     |     |     |     |     |     |
| RUN 10/2           | 315   | 55.7 | 54.9 | 52.5 | 52.5 | 54.0 | 54.0 | 52.6 | 52.6 | 50.3 | 52.1 | 52.4 |     |     |     |     |     |     |
| TAPE               | 430   | 55.4 | 54.8 | 52.2 | 52.3 | 52.7 | 52.7 | 51.3 | 51.3 | 49.0 | 50.8 | 51.1 |     |     |     |     |     |     |
| BAR 29.7 Hz        | 500   | 57.6 | 57.7 | 55.3 | 55.3 | 57.3 | 57.3 | 55.9 | 55.9 | 53.6 | 55.4 | 55.7 |     |     |     |     |     |     |
| (100295. Hz)       | 650   | 67.3 | 67.3 | 64.9 | 64.9 | 66.9 | 66.9 | 65.5 | 65.5 | 63.2 | 65.0 | 65.3 |     |     |     |     |     |     |
| YARD 41. DEG F     | 420   | 63.3 | 63.3 | 60.9 | 60.9 | 62.9 | 62.9 | 61.5 | 61.5 | 59.2 | 61.0 | 61.3 |     |     |     |     |     |     |
| (270. DEG K)       | 1000  | 63.7 | 63.7 | 61.3 | 61.3 | 63.3 | 63.3 | 61.9 | 61.9 | 59.6 | 61.4 | 61.7 |     |     |     |     |     |     |
| TRCI 39. DEG F     | 1250  | 49.8 | 49.8 | 47.4 | 47.4 | 49.4 | 49.4 | 48.0 | 48.0 | 45.7 | 47.5 | 47.8 |     |     |     |     |     |     |
| (277. DEG K)       | 1400  | 52.0 | 52.0 | 49.6 | 49.6 | 51.6 | 51.6 | 50.2 | 50.2 | 47.9 | 49.7 | 50.0 |     |     |     |     |     |     |
| MACT 5.72 Hz       | 2000  | 57.4 | 57.4 | 55.0 | 55.0 | 57.0 | 57.0 | 55.6 | 55.6 | 53.3 | 55.1 | 55.4 |     |     |     |     |     |     |
| (100572 Hz)        | 2500  | 49.7 | 49.7 | 47.3 | 47.3 | 49.3 | 49.3 | 47.9 | 47.9 | 45.6 | 47.4 | 47.7 |     |     |     |     |     |     |
| MFA 6300. rpm      | 3150  | 48.1 | 48.1 | 45.7 | 45.7 | 47.7 | 47.7 | 46.3 | 46.3 | 44.0 | 45.8 | 46.1 |     |     |     |     |     |     |
| (641. Hz/SEC)      | 4000  | 45.6 | 45.6 | 43.2 | 43.2 | 45.2 | 45.2 | 43.8 | 43.8 | 41.5 | 43.3 | 43.6 |     |     |     |     |     |     |
| MFX 6421. rpm      | 5000  | 45.5 | 45.5 | 43.1 | 43.1 | 45.1 | 45.1 | 43.7 | 43.7 | 41.4 | 43.2 | 43.5 |     |     |     |     |     |     |
| (672. Hz/SEC)      | 6375  | 41.2 | 41.2 | 38.8 | 38.8 | 40.8 | 40.8 | 39.4 | 39.4 | 37.1 | 38.9 | 39.2 |     |     |     |     |     |     |
| MFE 8623. rpm      | 8000  | 41.5 | 41.5 | 39.1 | 39.1 | 41.1 | 41.1 | 39.7 | 39.7 | 37.4 | 39.2 | 39.5 |     |     |     |     |     |     |
| (924. Hz/SEC)      | 10000 | 41.7 | 41.7 | 39.3 | 39.3 | 41.3 | 41.3 | 39.9 | 39.9 | 37.6 | 39.4 | 39.7 |     |     |     |     |     |     |
| NJ. OF PLACES 15   | 12500 | 39.8 | 39.8 | 37.4 | 37.4 | 39.4 | 39.4 | 38.0 | 38.0 | 35.7 | 37.5 | 37.8 |     |     |     |     |     |     |
| FAN TIP SPEED      | 16000 | 37.5 | 37.5 | 35.1 | 35.1 | 37.1 | 37.1 | 35.7 | 35.7 | 33.4 | 35.2 | 35.5 |     |     |     |     |     |     |
| 551. FT/SEC        | 20000 | 29.8 | 29.8 | 27.4 | 27.4 | 29.4 | 29.4 | 28.0 | 28.0 | 25.7 | 27.5 | 27.8 |     |     |     |     |     |     |
|                    | 25000 | 23.0 | 23.0 | 20.6 | 20.6 | 22.6 | 22.6 | 21.2 | 21.2 | 18.9 | 20.7 | 21.0 |     |     |     |     |     |     |
|                    | 31500 | 16.6 | 16.6 | 14.2 | 14.2 | 16.2 | 16.2 | 14.8 | 14.8 | 12.5 | 14.3 | 14.6 |     |     |     |     |     |     |
|                    | 40000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |
| OVERALL CALCULATED |       | 66.6 | 67.5 | 70.7 | 73.1 | 74.6 | 75.7 | 76.1 | 75.8 | 73.4 | 68.5 | 59.7 |     |     |     |     |     |     |
| PHNR               |       | 76.8 | 68.4 | 63.8 | 67.3 | 68.7 | 69.7 | 68.4 | 69.8 | 67.6 | 70.2 | 70.8 |     |     |     |     |     |     |



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MODEL SOUND PERFORMANCE LEVELS (90, 100, 110, 120 PERCENT REL. HUM., EAV)

ANGLES FROM INLET TO CARBURETTOR (AND TABLING)

| PARAMETER          | UNIT                      | ANGLE |       |       |       |       |       |       |       |       |       |       |       |    |    | POL. |    |    |    |       |
|--------------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|------|----|----|----|-------|
|                    |                           | 0     | 5     | 10    | 15    | 20    | 25    | 30    | 35    | 40    | 45    | 50    | 55    | 60 | 65 |      |    |    |    |       |
| RATIO              | 17. FT.                   | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63 | 63 | 63   | 63 | 63 | 63 | 63    |
| VEHICLE            | 1955                      | 100   | 78.7  | 72.0  | 72.7  | 77.6  | 72.8  | 73.4  | 73.0  | 74.2  | 77.2  | 62.4  | 65.6  |    |    |      |    |    |    | 110.7 |
| COMPIC             | 23                        | 100   | 76.8  | 70.5  | 74.7  | 77.5  | 76.0  | 77.3  | 76.9  | 74.9  | 79.7  | 62.7  | 65.1  |    |    |      |    |    |    | 113.2 |
| LCC                | SCHWABTAC                 | 200   | 77.5  | 73.3  | 73.4  | 74.4  | 74.8  | 75.3  | 77.4  | 74.9  | 69.7  | 64.2  | 65.6  |    |    |      |    |    |    | 112.5 |
| DATE               | 11/15/74                  | 250   | 77.5  | 71.6  | 72.7  | 74.7  | 75.5  | 76.0  | 78.7  | 66.9  | 62.7  | 65.2  | 66.3  |    |    |      |    |    |    | 113.6 |
| RUM                | 16/3                      | 210   | 77.5  | 75.6  | 77.2  | 77.4  | 77.3  | 79.7  | 66.9  | 61.7  | 62.7  | 64.7  | 65.6  |    |    |      |    |    |    | 114.9 |
| TAF                | 410                       | 270   | 77.5  | 76.1  | 76.4  | 76.3  | 77.8  | 76.8  | 79.7  | 61.2  | 61.2  | 62.9  | 63.1  |    |    |      |    |    |    | 113.3 |
| BAR                | 20.7 No. (100295. 10/2)   | 500   | 71.0  | 74.1  | 75.2  | 77.4  | 77.3  | 77.9  | 79.7  | 66.9  | 61.2  | 62.7  | 62.1  |    |    |      |    |    |    | 112.7 |
| TAP                | 42. DEG F (1276. DEG F)   | 600   | 75.8  | 75.5  | 76.3  | 74.7  | 79.8  | 61.0  | 62.2  | 63.4  | 63.4  | 63.2  | 61.0  |    |    |      |    |    |    | 114.7 |
| T-ET               | 39. DEG F (1250)          | 1000  | 66.1  | 76.6  | 78.2  | 70.2  | 83.8  | 62.3  | 63.4  | 64.2  | 63.9  | 62.9  | 61.6  |    |    |      |    |    |    | 115.6 |
|                    |                           | 1000  | 73.1  | 76.6  | 74.9  | 79.7  | 83.3  | 62.6  | 63.9  | 65.4  | 64.6  | 62.2  | 60.3  |    |    |      |    |    |    | 115.8 |
|                    |                           | 1250  | 76.4  | 77.3  | 79.9  | 81.2  | 83.6  | 65.1  | 67.2  | 67.7  | 67.7  | 67.7  | 61.1  |    |    |      |    |    |    | 116.1 |
|                    |                           | 1600  | 78.9  | 81.1  | 83.7  | 85.8  | 88.6  | 90.4  | 90.9  | 62.4  | 91.4  | 85.7  | 62.6  |    |    |      |    |    |    | 122.5 |
| HACT               | 1277. DEG F (5.42 10/2)   | 3000  | 29.1  | 63.9  | 63.4  | 64.3  | 63.9  | 93.1  | 92.9  | 93.6  | 91.7  | 67.9  | 63.3  |    |    |      |    |    |    | 124.3 |
|                    | (100542 10/2)             | 2500  | 75.4  | 63.4  | 66.2  | 67.6  | 61.7  | 92.0  | 92.6  | 93.9  | 91.4  | 66.8  | 62.6  |    |    |      |    |    |    | 124.3 |
| NFA                | 7106. APP (1744. 402/SEC) | 3100  | 76.8  | 63.2  | 68.1  | 91.8  | 63.2  | 94.1  | 94.8  | 96.8  | 94.4  | 69.3  | 65.6  |    |    |      |    |    |    | 126.6 |
|                    |                           | 4600  | 79.2  | 65.6  | 68.6  | 92.3  | 63.9  | 94.6  | 96.3  | 97.5  | 94.9  | 69.7  | 65.5  |    |    |      |    |    |    | 127.6 |
| NFK                | 7223. APP (1750. 402/SEC) | 5600  | 61.0  | 65.2  | 68.6  | 91.3  | 63.6  | 95.3  | 95.7  | 96.7  | 93.6  | 69.2  | 63.4  |    |    |      |    |    |    | 127.6 |
|                    |                           | 8100  | 64.5  | 62.7  | 66.0  | 89.9  | 61.7  | 93.5  | 93.7  | 96.0  | 92.1  | 67.1  | 62.5  |    |    |      |    |    |    | 125.5 |
| NFD                | 8823. APP (1924. 602/SEC) | 8700  | 67.7  | 67.1  | 64.7  | 88.4  | 63.4  | 92.4  | 93.5  | 94.7  | 91.5  | 66.4  | 61.4  |    |    |      |    |    |    | 124.8 |
|                    |                           | 11000 | 76.7  | 65.9  | 64.8  | 88.2  | 63.5  | 92.5  | 93.5  | 94.7  | 92.1  | 66.9  | 61.6  |    |    |      |    |    |    | 124.8 |
| NO. OF PLACES      | 19                        | 12500 | 31.2  | 73.6  | 63.3  | 67.3  | 63.1  | 90.5  | 92.6  | 93.8  | 90.3  | 65.8  | 60.6  |    |    |      |    |    |    | 124.0 |
| PAK TIP SPLCS      | 18000                     | 18000 | 74.7  | 76.3  | 60.2  | 63.7  | 66.3  | 66.3  | 90.5  | 92.2  | 67.0  | 63.1  | 60.0  |    |    |      |    |    |    | 121.9 |
|                    | 629. FT/SEC               | 25000 | 72.3  | 73.3  | 79.7  | 63.1  | 85.9  | 67.3  | 89.0  | 91.8  | 89.0  | 63.2  | 61.1  |    |    |      |    |    |    | 122.0 |
|                    |                           | 25000 | 74.4  | 74.7  | 74.3  | 81.6  | 64.5  | 86.1  | 84.4  | 90.6  | 87.4  | 62.3  | 60.4  |    |    |      |    |    |    | 121.4 |
|                    |                           | 31500 | 73.6  | 73.5  | 77.2  | 81.1  | 63.5  | 85.7  | 87.4  | 89.4  | 86.5  | 61.4  | 79.3  |    |    |      |    |    |    | 121.3 |
|                    |                           | 45000 | 74.2  | 71.8  | 74.7  | 78.5  | 63.5  | 83.2  | 85.6  | 86.0  | 84.2  | 70.1  | 78.3  |    |    |      |    |    |    | 120.1 |
|                    |                           | 50000 | 76.4  | 68.5  | 72.8  | 74.5  | 76.8  | 79.9  | 82.7  | 81.9  | 86.1  | 77.1  | 77.7  |    |    |      |    |    |    | 116.7 |
|                    |                           | 63000 | 74.6  | 66.7  | 73.7  | 69.4  | 71.5  | 74.5  | 78.6  | 75.4  | 74.6  | 74.5  | 71.7  |    |    |      |    |    |    | 116.9 |
|                    |                           | 80000 | 61.2  | 62.1  | 71.0  | 69.4  | 73.3  | 76.5  | 71.7  | 71.4  | 78.2  | 72.9  | 69.2  |    |    |      |    |    |    | 120.4 |
| OVERALL MEASURE    |                           |       |       |       |       |       |       |       |       |       |       |       |       |    |    |      |    |    |    |       |
| OVERALL CALCULATED |                           |       | 94.4  | 94.6  | 97.2  | 100.5 | 102.4 | 104.0 | 104.9 | 106.2 | 103.7 | 99.7  | 97.6  |    |    |      |    |    |    | 126.7 |
| PAGE               |                           |       | 105.5 | 107.8 | 110.5 | 113.7 | 115.3 | 116.9 | 117.6 | 118.9 | 116.7 | 112.7 | 109.4 |    |    |      |    |    |    |       |

ORIGINAL PAGE IS OF POOR QUALITY

WHEEL SPEED INFLUENCE LEVELS (50, 100, 150, 200 PERCENT REL. NUM. RAY)

ANGLES FROM INLET IN DEGREES (AND HAZELANG)

|                     | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
| FRAC.               | (1.72) | (1.17) | (1.30) | (1.53) | (1.71) | (1.00) | (2.04) | (2.24) | (2.42) | (2.00) | (2.78) | 0.   | 100. | 100. | 100. | 100. | 100. |
| SIDELINE 200. FT.   | 50     | 53     | 59     |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| ( 63.06 )           | 100    | 53.7   | 57.4   | 51.2   | 51.1   | 51.1   | 51.7   | 51.2   | 50.4   | 51.0   | 50.8   | 50.2 |      |      |      |      |      |
| VEHICLE R=45        | 125    | 55.4   | 57.3   | 56.4   | 54.7   | 54.3   | 55.2   | 54.2   | 55.1   | 54.7   | 54.9   | 53.5 |      |      |      |      |      |
| CLIMATE 26          | 160    | 54.3   | 55.9   | 51.5   | 52.7   | 53.3   | 53.1   | 54.4   | 54.0   | 54.1   | 54.2   | 53.7 |      |      |      |      |      |
| LOC SCHEDULED       | 200    | 54.2   | 49.1   | 51.9   | 53.1   | 54.0   | 55.7   | 55.7   | 56.8   | 56.5   | 57.1   | 54.2 |      |      |      |      |      |
| DATE 11/15/74       | 250    | 53.6   | 53.0   | 55.1   | 56.5   | 57.3   | 57.4   | 57.0   | 57.5   | 56.7   | 56.4   | 53.2 |      |      |      |      |      |
| RNA 10/3            | 315    | 59.2   | 54.2   | 54.0   | 54.0   | 57.3   | 57.0   | 57.5   | 57.1   | 56.5   | 56.0   | 52.2 |      |      |      |      |      |
| TAPE                | 430    | 53.4   | 53.3   | 54.2   | 54.5   | 55.7   | 54.3   | 56.4   | 56.4   | 55.1   | 56.3   | 50.2 |      |      |      |      |      |
| BAR 20.7 MC         | 500    | 47.3   | 51.2   | 52.8   | 54.3   | 55.1   | 54.2   | 56.3   | 56.4   | 54.0   | 53.9   | 48.9 |      |      |      |      |      |
| (88295. 1/112)      | 630    | 52.0   | 52.0   | 54.2   | 56.4   | 57.5   | 54.0   | 54.7   | 58.4   | 57.0   | 54.2   | 48.4 |      |      |      |      |      |
| TAMP 42. DEG F      | 800    | 56.1   | 53.5   | 55.5   | 56.8   | 58.1   | 59.5   | 59.8   | 59.4   | 57.3   | 53.7   | 47.8 |      |      |      |      |      |
| (270. DEG R)        | 1000   | 49.3   | 53.4   | 50.2   | 57.2   | 58.2   | 59.4   | 60.2   | 60.5   | 54.2   | 52.7   | 46.2 |      |      |      |      |      |
| T-CT 30. DEG F      | 1500   | 57.1   | 54.7   | 57.1   | 54.6   | 55.9   | 42.0   | 63.3   | 62.5   | 64.2   | 53.4   | 49.5 |      |      |      |      |      |
| (277. DEG R)        | 2000   | 54.4   | 57.6   | 63.7   | 63.9   | 65.8   | 67.1   | 66.8   | 67.1   | 64.2   | 59.6   | 47.5 |      |      |      |      |      |
| MACT 5.42 G/M3      | 2000   | 54.4   | 60.2   | 62.2   | 65.3   | 67.3   | 69.6   | 68.6   | 64.1   | 64.2   | 57.3   | 47.7 |      |      |      |      |      |
| (.00542 G/M3)       | 2500   | 55.5   | 59.5   | 62.4   | 60.7   | 69.4   | 60.7   | 68.1   | 64.1   | 63.7   | 55.9   | 46.4 |      |      |      |      |      |
| MFA 7100 RPM        | 3150   | 51.5   | 60.9   | 64.3   | 64.4   | 69.7   | 76.2   | 76.3   | 76.7   | 66.2   | 57.9   | 46.0 |      |      |      |      |      |
| ( 744. RAD/SEC)     | 4000   | 53.3   | 60.9   | 64.5   | 64.5   | 70.3   | 71.2   | 71.0   | 70.0   | 66.8   | 57.5   | 47.3 |      |      |      |      |      |
| MFE 7283 RPM        | 5000   | 59.3   | 65.4   | 63.7   | 67.7   | 69.5   | 70.6   | 70.2   | 69.7   | 64.3   | 55.5   | 44.5 |      |      |      |      |      |
| ( 750. RAD/SEC)     | 6300   | 57.7   | 57.2   | 60.9   | 65.2   | 66.9   | 66.1   | 67.4   | 66.1   | 61.6   | 53.0   | 41.5 |      |      |      |      |      |
| MFE 8023 RPM        | 8000   | 59.5   | 55.2   | 59.6   | 62.6   | 64.5   | 65.0   | 65.0   | 65.4   | 59.5   | 50.3   | 37.1 |      |      |      |      |      |
| ( 824. RAD/SEC)     | 10000  | 44.8   | 52.4   | 57.1   | 60.9   | 63.0   | 44.4   | 64.2   | 63.5   | 57.7   | 47.5   | 33.0 |      |      |      |      |      |
| NO. OF GLACES 15    | 12500  | 44.6   | 48.7   | 53.4   | 57.5   | 60.4   | 60.5   | 60.8   | 56.7   | 52.5   | 42.0   | 25.5 |      |      |      |      |      |
| FAN TIP SPEED       | 16000  | 37.3   | 41.3   | 46.6   | 50.5   | 53.3   | 54.1   | 54.5   | 53.3   | 44.5   | 32.0   | 13.9 |      |      |      |      |      |
| 620. FT/SEC         | 20000  | 33.4   | 35.0   | 41.2   | 45.2   | 47.8   | 44.0   | 46.5   | 46.8   | 36.3   | 22.5   | 0.7  |      |      |      |      |      |
| 25000               | 27.3   | 27.4   | 32.0   | 36.0   | 39.3   | 39.7   | 39.7   | 36.0   | 36.1   | 7.0    |        |      |      |      |      |      |      |
| 31500               | 11.2   | 15.5   | 21.7   | 26.5   | 29.5   | 28.9   | 27.3   | 22.4   | 9.7    |        |        |      |      |      |      |      |      |
| 40000               |        |        | 4.6    | 9.1    | 10.6   | 10.0   | 0.2    | 0.0    |        |        |        |      |      |      |      |      |      |
| 50000               |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| 60000               |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| 80000               |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| OVERALL CIRCULARITY | 63.3   | 65.9   | 72.8   | 76.2   | 77.9   | 78.9   | 78.6   | 78.6   | 74.3   | 68.4   | 63.2   |      |      |      |      |      |      |
| PAUP                | 79.9   | 83.4   | 86.5   | 90.0   | 91.5   | 92.7   | 92.5   | 92.4   | 88.2   | 81.1   | 72.0   |      |      |      |      |      |      |



| PARAM.             | 59.    | 60.    | 70.    | 75.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.  | 0.    | 0.    | 0.    | 0.    | 0.    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| FREQ.              | (1.02) | (1.17) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) |
| SIDE LINE 200. FT. | 50     | 63     | 80     |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
| (60.96 M)          | 100    | 56.4   | 51.5   | 53.6   | 53.5   | 54.1   | 54.5   | 54.5   | 54.1   | 55.1   | 59.3   | 57.7  |       |       |       |       |       |
| VEHICLE 2-55       | 125    | 56.3   | 55.7   | 54.8   | 55.9   | 59.3   | 58.6   | 58.6   | 58.8   | 58.0   | 58.4   | 57.2  |       |       |       |       |       |
| CONFIG 20          | 160    | 56.7   | 54.9   | 55.7   | 56.1   | 56.5   | 57.3   | 58.1   | 58.7   | 58.8   | 59.2   | 57.5  |       |       |       |       |       |
| LCC SCHEMECTARY    | 200    | 57.4   | 53.8   | 54.9   | 56.5   | 58.4   | 60.0   | 59.7   | 60.8   | 59.7   | 60.6   | 58.2  |       |       |       |       |       |
| DATE 11/15/74      | 250    | 57.0   | 57.2   | 59.5   | 58.4   | 61.9   | 61.4   | 61.9   | 61.7   | 60.6   | 60.4   | 57.5  |       |       |       |       |       |
| RPM 1874           | 315    | 55.9   | 57.1   | 59.2   | 58.1   | 60.5   | 60.8   | 60.5   | 60.6   | 60.6   | 60.2   | 56.0  |       |       |       |       |       |
| TAPE               | 400    | 55.9   | 55.8   | 57.4   | 58.3   | 59.9   | 59.7   | 59.9   | 60.2   | 58.6   | 57.8   | 54.5  |       |       |       |       |       |
| BAR 29.7 HG        | 500    | 55.8   | 54.9   | 56.3   | 57.5   | 58.5   | 59.6   | 60.3   | 59.9   | 58.2   | 56.9   | 52.9  |       |       |       |       |       |
| (100295. 4/1.2)    | 630    | 57.7   | 56.1   | 56.2   | 59.6   | 61.2   | 62.3   | 62.4   | 62.2   | 60.3   | 57.4   | 52.1  |       |       |       |       |       |
| TAMB 42. DEG F     | 800    | 63.5   | 58.4   | 61.6   | 61.0   | 62.6   | 62.7   | 63.3   | 62.3   | 59.8   | 56.7   | 51.8  |       |       |       |       |       |
| (279. DEG K)       | 1000   | 56.9   | 56.5   | 58.9   | 60.1   | 61.2   | 62.3   | 62.9   | 62.7   | 60.2   | 55.7   | 49.7  |       |       |       |       |       |
| T-ET 39. DEG F     | 1250   | 55.3   | 57.4   | 59.3   | 61.7   | 62.9   | 64.2   | 64.8   | 65.0   | 61.7   | 55.9   | 50.0  |       |       |       |       |       |
| (277. DEG K)       | 1600   | 54.1   | 54.5   | 61.6   | 63.9   | 65.0   | 66.8   | 66.6   | 65.5   | 62.7   | 55.8   | 48.3  |       |       |       |       |       |
| MACT 5.42 GM/MS    | 2200   | 61.4   | 66.8   | 70.7   | 73.3   | 74.1   | 75.0   | 74.6   | 72.8   | 69.9   | 61.5   | 52.0  |       |       |       |       |       |
| (100542 2/1.3)     | 2500   | 54.6   | 62.9   | 66.5   | 70.1   | 71.2   | 71.4   | 70.9   | 71.3   | 64.9   | 66.4   | 49.7  |       |       |       |       |       |
| NFA 7862. RPM      | 3150   | 54.3   | 63.4   | 67.2   | 70.6   | 71.4   | 71.9   | 71.0   | 71.6   | 66.5   | 58.6   | 50.1  |       |       |       |       |       |
| ( 620. RAD/SEC)    | 4000   | 54.0   | 65.4   | 68.7   | 72.2   | 73.0   | 74.1   | 74.2   | 73.0   | 68.3   | 60.5   | 50.5  |       |       |       |       |       |
| NFK 6023. RPM      | 5000   | 53.4   | 63.1   | 67.4   | 70.2   | 71.9   | 72.8   | 72.2   | 71.1   | 64.8   | 57.2   | 46.5  |       |       |       |       |       |
| ( 840. RAD/SEC)    | 6300   | 52.6   | 62.1   | 65.6   | 68.4   | 71.4   | 71.6   | 71.4   | 70.5   | 63.8   | 56.2   | 45.0  |       |       |       |       |       |
| NFD 8823. RPM      | 8000   | 51.5   | 59.4   | 63.6   | 66.0   | 67.7   | 69.1   | 68.7   | 68.9   | 61.0   | 52.5   | 41.4  |       |       |       |       |       |
| ( 924. RAD/SEC)    | 10000  | 51.5   | 57.1   | 61.5   | 64.8   | 66.2   | 67.6   | 67.2   | 66.4   | 59.8   | 50.3   | 38.0  |       |       |       |       |       |
| NO. OF BLADES 15   | 12500  | 49.6   | 53.9   | 58.9   | 61.0   | 63.4   | 64.4   | 64.3   | 63.4   | 54.8   | 44.5   | 30.2  |       |       |       |       |       |
| FAN TIP SPEED      | 16000  | 43.5   | 46.4   | 51.6   | 54.5   | 56.7   | 57.6   | 57.8   | 56.5   | 46.5   | 34.3   | 19.1  |       |       |       |       |       |
| 689. FT/SEC        | 20000  | 38.3   | 40.9   | 46.1   | 49.6   | 51.6   | 52.5   | 52.8   | 50.2   | 40.3   | 25.5   | 7.0   |       |       |       |       |       |
|                    | 25000  | 32.0   | 32.9   | 37.9   | 42.4   | 43.8   | 44.2   | 44.4   | 41.5   | 29.6   | 11.9   |       |       |       |       |       |       |
|                    | 31500  | 26.2   | 21.4   | 26.9   | 31.9   | 32.5   | 33.0   | 31.3   | 26.4   | 13.0   |        |       |       |       |       |       |       |
|                    | 40000  | 3.3    | 3.4    | 10.0   | 13.8   | 15.1   | 14.5   | 12.2   | 4.0    |        |        |       |       |       |       |       |       |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
| OVERALL CALCULATED | 79.7   | 73.7   | 77.1   | 80.4   | 81.1   | 82.1   | 81.7   | 80.9   | 76.5   | 72.5   | 66.9   |       |       |       |       |       |       |
| PNL8               | 81.9   | 67.4   | 90.6   | 93.6   | 94.6   | 95.6   | 95.5   | 94.7   | 90.2   | 86.3   | 75.8   |       |       |       |       |       |       |



ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    |  | 50.  | 55.  | 70.  | 75.  | 90.  | 100. | 110. | 120. | 130. | 140. | 150. | 0. | 0. | 0. | 0. | 0. | 0. |
|--------------------|--|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|
|                    | FREQ. (1.02)(1.17)(1.35)(1.53)(1.71)(1.89)(2.06)(2.24)(2.42)(2.60)(2.78)(0. 110. 110. 110. 110. 110. 1 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
|                    | SC   |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
|                    | 63   |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| SIDE LINE 200. FT. | 00   |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| ( 03.04 " )        | 100  | 56.4 | 57.3 | 53.9 | 53.5 | 54.4 | 55.0 | 54.5 | 53.9 | 55.1 | 54.0 | 57.4 |    |    |    |    |    |    |
| VEHICLE P-55       | 125  | 55.3 | 55.2 | 55.3 | 54.4 | 57.3 | 54.4 | 54.1 | 54.5 | 54.0 | 57.9 | 57.0 |    |    |    |    |    |    |
| CON. FLU 20        | 100  | 56.7 | 54.7 | 55.7 | 54.9 | 56.2 | 56.9 | 57.4 | 56.4 | 58.8 | 59.2 | 58.7 |    |    |    |    |    |    |
| LCC SCHEMECTARY    | 200  | 54.4 | 53.5 | 55.6 | 54.3 | 54.4 | 59.5 | 59.0 | 60.3 | 60.0 | 60.6 | 58.2 |    |    |    |    |    |    |
| DATE 11/15/74      | 250  | 56.3 | 57.2 | 59.3 | 59.7 | 61.9 | 61.5 | 62.5 | 62.2 | 60.4 | 60.1 | 57.7 |    |    |    |    |    |    |
| RUN 18/5           | 315  | 55.9 | 57.4 | 59.0 | 59.9 | 60.5 | 61.2 | 60.3 | 60.6 | 59.7 | 59.0 | 55.7 |    |    |    |    |    |    |
| TAPE               | 400  | 54.9 | 54.5 | 57.6 | 54.3 | 58.9 | 59.5 | 59.9 | 60.0 | 54.6 | 57.9 | 54.0 |    |    |    |    |    |    |
| BAR 29.7 HG        | 500  | 55.8 | 55.4 | 56.4 | 57.2 | 58.3 | 59.4 | 59.0 | 59.4 | 54.4 | 56.6 | 52.2 |    |    |    |    |    |    |
| ( 00245. 4/121 )   | 550  | 57.2 | 56.6 | 57.9 | 59.4 | 60.5 | 62.0 | 62.2 | 62.2 | 59.4 | 56.9 | 52.1 |    |    |    |    |    |    |
| TAMP 42. DEG F     | 600  | 56.0 | 58.4 | 61.3 | 61.3 | 62.4 | 62.4 | 63.3 | 62.6 | 59.8 | 54.4 | 59.8 |    |    |    |    |    |    |
| ( 279. DEG F )     | 1000   | 55.7 | 56.3 | 54.9 | 60.1 | 61.2 | 62.1 | 63.2 | 62.7 | 59.9 | 54.9 | 49.2 |    |    |    |    |    |    |
| T-ET 39. DEG F     | 1250   | 55.3 | 57.7 | 59.3 | 61.3 | 63.1 | 64.2 | 64.4 | 64.7 | 61.7 | 55.9 | 49.3 |    |    |    |    |    |    |
| ( 277. DEG F )     | 1800   | 55.1 | 58.5 | 61.1 | 63.2 | 65.0 | 65.5 | 66.8 | 65.5 | 62.7 | 55.4 | 47.5 |    |    |    |    |    |    |
| HACT 5.42 5/1/73   | 2000   | 51.4 | 66.1 | 69.2 | 72.3 | 72.9 | 75.1 | 73.4 | 72.4 | 69.2 | 61.5 | 51.0 |    |    |    |    |    |    |
| ( 00542 KG/H3 )    | 2500   | 54.5 | 62.9 | 65.2 | 67.5 | 71.2 | 71.4 | 70.4 | 70.5 | 64.0 | 57.7 | 48.7 |    |    |    |    |    |    |
| MFA 7846. RPM      | 3150   | 54.3 | 62.7 | 66.7 | 70.1 | 71.7 | 71.6 | 71.9 | 71.9 | 64.2 | 58.4 | 49.1 |    |    |    |    |    |    |
| ( 024. RAT/SEC )   | 4000   | 54.5 | 64.9 | 68.2 | 72.2 | 73.0 | 73.9 | 74.0 | 73.0 | 67.9 | 60.5 | 50.3 |    |    |    |    |    |    |
| MPX 0023. RPM      | 5000   | 53.4 | 67.3 | 66.3 | 69.7 | 71.9 | 72.3 | 72.4 | 71.6 | 64.1 | 57.0 | 45.8 |    |    |    |    |    |    |
| ( 040. RAT/SEC )   | 6300   | 52.6 | 61.0 | 65.1 | 68.5 | 72.1 | 71.1 | 71.9 | 70.5 | 63.5 | 55.7 | 44.7 |    |    |    |    |    |    |
| MFD 4023. RPM      | 9000   | 51.5 | 58.4 | 62.3 | 65.4 | 67.9 | 68.4 | 68.7 | 68.9 | 60.7 | 52.0 | 39.6 |    |    |    |    |    |    |
| ( 924. RAT/SEC )   | 10000  | 51.5 | 54.5 | 61.3 | 64.3 | 66.2 | 67.7 | 67.5 | 68.4 | 59.0 | 49.5 | 35.3 |    |    |    |    |    |    |
| NO. OF FLAMES 15   | 12500  | 50.1 | 53.5 | 54.4 | 56.9 | 63.9 | 63.7 | 64.0 | 62.9 | 54.3 | 44.2 | 27.7 |    |    |    |    |    |    |
| FAN TIP SPEED      | 16000  | 43.3 | 45.7 | 50.4 | 53.7 | 56.5 | 56.1 | 57.8 | 56.0 | 47.0 | 34.0 | 14.6 |    |    |    |    |    |    |
| 049. FT/SEC        | 20000  | 36.7 | 40.6 | 45.9 | 44.9 | 51.3 | 42.2 | 52.8 | 50.0 | 40.3 | 24.5 |      |    |    |    |    |    |    |
|                    | 25000  | 31.5 | 32.4 | 37.4 | 41.4 | 43.5 | 44.4 | 44.2 | 41.0 | 29.1 | 10.9 |      |    |    |    |    |    |    |
|                    | 31500  | 19.9 | 20.9 | 26.6 | 30.5 | 32.5 | 33.0 | 31.9 | 26.5 | 12.7 |      |      |    |    |    |    |    |    |
|                    | 40000  | 2.8  | 3.2  | 9.5  | 13.3 | 15.1 | 14.7 | 12.2 | 4.0  |      |      |      |    |    |    |    |    |    |
|                    | 50000  |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
|                    | 63000  |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
|                    | 80000  |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| OVERALL CALCULATED |  | 76.7 | 73.3 | 76.4 | 79.5 | 81.3 | 81.6 | 81.5 | 81.0 | 76.1 | 71.2 | 66.6 |    |    |    |    |    |    |
| PHOC               |  | 81.9 | 87.0 | 93.1 | 93.4 | 94.6 | 95.4 | 95.4 | 94.7 | 89.9 | 83.6 | 75.2 |    |    |    |    |    |    |

MODEL SOUND PRESSURE LEVELS (50, DEG. F. 70 PERCENT DEL. HUM. EAV)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 58      | 60     | 70     | 83     | 90     | 100    | 110    | 120    | 135    | 140    | 150    | 0     | 0   | 0   | 0   | 0   | 0   | PHL   |
|--------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|-----|-----|-------|
| FREQ.              | (1.032) | (1.12) | (1.36) | (1.53) | (1.71) | (1.94) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0)   | (0) | (0) | (0) | (0) | (0) |       |
| RADIAL 17. FT.     |         |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |       |
| 1 5. M             | 100     | 71.2   | 72.5   | 76.9   | 77.9   | 77.3   | 76.0   | 73.2   | 69.9   | 71.7   | 76.4   | 76.4  |     |     |     |     |     | 109.4 |
| VEHICLE 7-35       | 105     | 77.2   | 68.5   | 70.9   | 69.9   | 70.9   | 69.0   | 68.7   | 71.2   | 72.2   | 73.9   | 76.6  |     |     |     |     |     | 105.1 |
| CONFIG 20          | 100     | 71.7   | 66.5   | 67.4   | 67.6   | 67.8   | 66.0   | 69.9   | 71.2   | 72.6   | 73.1   | 76.9  |     |     |     |     |     | 104.8 |
| LCC SCHEMATIC      | 200     | 72.3   | 66.3   | 67.3   | 67.9   | 70.3   | 71.4   | 72.9   | 74.7   | 75.1   | 77.1   | 76.9  |     |     |     |     |     | 106.9 |
| DATE 11/15/74      | 270     | 72.2   | 69.1   | 70.2   | 71.4   | 71.6   | 72.5   | 73.7   | 74.2   | 74.6   | 75.6   | 76.9  |     |     |     |     |     | 106.9 |
| RUN 12/5           | 315     | 77.0   | 70.1   | 71.7   | 71.7   | 72.5   | 73.5   | 72.9   | 74.4   | 74.6   | 75.1   | 76.6  |     |     |     |     |     | 107.9 |
| TAPE               | 400     | 74.3   | 69.3   | 70.7   | 71.4   | 72.9   | 73.3   | 73.7   | 74.9   | 75.4   | 74.6   | 74.9  |     |     |     |     |     | 107.2 |
| BAR 26.7 MB        | 500     | 73.5   | 68.5   | 69.4   | 70.4   | 71.5   | 72.5   | 73.4   | 74.2   | 73.6   | 74.4   | 74.4  |     |     |     |     |     | 106.5 |
| (100295. 1/42)     | 600     | 71.3   | 70.1   | 70.9   | 73.2   | 74.6   | 75.0   | 76.7   | 77.7   | 77.7   | 74.9   | 75.4  |     |     |     |     |     | 109.0 |
| TAMB 42. DEG F     | 600     | 69.1   | 72.3   | 74.2   | 74.4   | 76.1   | 77.1   | 76.4   | 79.2   | 78.9   | 77.4   | 74.6  |     |     |     |     |     | 111.1 |
| (279. DEG F)       | 1000    | 71.6   | 71.3   | 73.7   | 74.4   | 76.6   | 77.6   | 78.9   | 80.2   | 80.9   | 77.5   | 73.9  |     |     |     |     |     | 111.0 |
| T-ET 39. DEG F     | 1250    | 70.3   | 76.1   | 77.4   | 77.2   | 81.4   | 83.1   | 85.7   | 86.2   | 87.9   | 84.9   | 79.9  |     |     |     |     |     | 117.0 |
| (277. DEG F)       | 1600    | 69.6   | 75.9   | 77.9   | 79.3   | 81.4   | 83.4   | 84.9   | 85.9   | 86.9   | 82.7   | 77.1  |     |     |     |     |     | 116.5 |
| MACT 5.42 57/M3    | 2000    | 75.6   | 75.7   | 77.9   | 81.0   | 83.7   | 85.9   | 85.6   | 85.4   | 84.7   | 80.4   | 77.1  |     |     |     |     |     | 116.9 |
| (100242 23/M3)     | 2500    | 71.4   | 79.2   | 82.2   | 84.8   | 86.7   | 88.9   | 89.4   | 89.4   | 89.9   | 83.9   | 80.6  |     |     |     |     |     | 120.6 |
| NFA 5527. RPM      | 3100    | 70.1   | 78.7   | 81.6   | 84.5   | 86.9   | 88.1   | 88.8   | 89.3   | 90.7   | 83.9   | 80.6  |     |     |     |     |     | 120.5 |
| ( 579. RAD/SEC)    | 4000    | 69.5   | 78.1   | 80.6   | 84.3   | 87.1   | 88.1   | 89.0   | 91.3   | 90.1   | 83.9   | 79.3  |     |     |     |     |     | 120.9 |
| NFK 5620. RPM      | 5000    | 67.5   | 76.6   | 79.3   | 83.3   | 85.5   | 86.5   | 87.7   | 89.0   | 88.8   | 82.4   | 78.0  |     |     |     |     |     | 119.3 |
| ( 560. RAD/SEC)    | 6000    | 69.3   | 74.9   | 78.0   | 82.2   | 84.0   | 85.3   | 86.2   | 86.8   | 88.1   | 81.1   | 78.6  |     |     |     |     |     | 116.4 |
| NFE 8623. RPM      | 8000    | 69.7   | 73.6   | 76.5   | 79.9   | 82.2   | 83.9   | 85.0   | 86.7   | 86.9   | 80.5   | 76.4  |     |     |     |     |     | 116.9 |
| ( 924. RAD/SEC)    | 10000   | 70.7   | 72.1   | 75.8   | 80.3   | 81.7   | 84.0   | 85.9   | 86.7   | 87.3   | 81.0   | 76.9  |     |     |     |     |     | 117.1 |
| NO. OF BLADES 15   | 12000   | 71.9   | 72.1   | 73.8   | 78.3   | 80.9   | 83.4   | 83.4   | 86.3   | 85.8   | 79.9   | 78.1  |     |     |     |     |     | 116.3 |
| FAN TIP SPEED      | 16000   | 70.4   | 64.0   | 70.7   | 74.7   | 77.5   | 79.8   | 82.5   | 84.7   | 83.3   | 76.8   | 76.0  |     |     |     |     |     | 114.4 |
| 483. FT/SEC        | 20000   | 71.4   | 67.1   | 70.2   | 74.3   | 76.4   | 79.0   | 82.4   | 83.8   | 83.5   | 77.1   | 80.1  |     |     |     |     |     | 114.6 |
|                    | 25000   | 72.9   | 66.7   | 68.8   | 72.6   | 75.3   | 77.4   | 79.1   | 81.1   | 81.2   | 74.7   | 79.5  |     |     |     |     |     | 113.0 |
|                    | 31500   | 72.4   | 65.8   | 66.2   | 72.1   | 74.5   | 76.7   | 78.6   | 80.6   | 80.5   | 75.3   | 79.9  |     |     |     |     |     | 113.5 |
|                    | 40000   | 73.2   | 64.5   | 67.2   | 69.2   | 71.8   | 74.7   | 76.4   | 78.0   | 77.7   | 74.6   | 82.1  |     |     |     |     |     | 113.3 |
|                    | 50000   | 75.4   | 65.3   | 68.0   | 67.9   | 69.5   | 71.2   | 74.0   | 73.9   | 72.8   | 75.3   | 82.0  |     |     |     |     |     | 113.7 |
|                    | 63000   | 78.6   | 66.3   | 69.2   | 66.9   | 68.5   | 69.5   | 70.9   | 69.6   | 67.9   | 73.4   | 81.8  |     |     |     |     |     | 115.8 |
|                    | 80000   | 81.2   | 68.3   | 71.0   | 68.4   | 69.0   | 70.3   | 70.7   | 70.2   | 65.2   | 72.1   | 77.8  |     |     |     |     |     | 120.4 |
| OVERALL MEASURED   |         |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |       |
| OVERALL CALCULATED |         | 80.2   | 87.7   | 90.4   | 93.3   | 95.4   | 97.0   | 98.0   | 99.3   | 99.4   | 94.2   | 93.3  |     |     |     |     |     | 130.6 |
| PHNC               |         | 97.4   | 101.2  | 103.8  | 106.7  | 108.8  | 110.0  | 110.9  | 112.4  | 112.3  | 107.0  | 104.0 |     |     |     |     |     |       |

MUPEL SOUND PRESSURE LEVELS (59. DEC. P. 70 PERCENT OLL. NUM. DAY)  
 PHCC. DATE - MONTH 12 DAY 5 HR. 15.4  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.              | 30     | 50     | 70     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0      | 0    | 0 | 0 | 0 | 0 |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|---|---|---|---|
|                    | (1.02) | (1.57) | (1.30) | (1.53) | (1.71) | (1.90) | (2.09) | (2.24) | (2.42) | (2.60) | (2.78) | 0    | 0 | 0 | 0 | 0 |
| SIDE LINE 200. FT. | 100    | 43.2   | 50.3   | 55.2   | 56.3   | 55.6   | 54.0   | 50.5   | 46.1   | 46.3   | 44.7   | 47.0 |   |   |   |   |
| ( 65.96 V)         | 125    | 47.1   | 46.3   | 49.1   | 48.2   | 49.1   | 46.9   | 45.9   | 47.3   | 46.7   | 46.1   | 45.0 |   |   |   |   |
| VEHICLE R=45       | 160    | 48.5   | 44.2   | 45.5   | 45.9   | 46.0   | 46.6   | 47.1   | 47.2   | 47.3   | 47.2   | 45.0 |   |   |   |   |
| CONFIG 20          | 200    | 49.2   | 44.3   | 45.9   | 47.1   | 48.1   | 49.0   | 50.0   | 50.6   | 49.4   | 49.0   | 46.5 |   |   |   |   |
| LCC SCHEMECTARY    | 250    | 48.8   | 46.5   | 48.1   | 49.5   | 49.8   | 50.2   | 50.4   | 50.0   | 49.1   | 47.3   | 44.5 |   |   |   |   |
| DATE 11/15/74      | 315    | 53.5   | 47.4   | 49.3   | 49.9   | 50.5   | 51.1   | 49.8   | 50.1   | 48.7   | 47.7   | 46.0 |   |   |   |   |
| RUN 10/8           | 450    | 53.7   | 46.6   | 48.4   | 49.3   | 49.9   | 50.4   | 50.4   | 50.5   | 49.3   | 46.0   | 42.0 |   |   |   |   |
| TAPE               | 530    | 49.8   | 45.7   | 47.1   | 48.3   | 49.3   | 49.9   | 50.1   | 49.7   | 47.4   | 45.6   | 41.2 |   |   |   |   |
| BAR 20.7 MG        | 630    | 47.5   | 47.1   | 48.5   | 50.9   | 52.2   | 52.4   | 53.2   | 53.0   | 51.3   | 47.9   | 41.9 |   |   |   |   |
| ( 100255. V/M2)    | 730    | 55.1   | 49.2   | 51.6   | 52.1   | 53.6   | 54.2   | 54.8   | 54.4   | 52.3   | 49.1   | 40.8 |   |   |   |   |
| TANK 42. DEC F     | 830    | 47.5   | 49.1   | 51.0   | 51.9   | 54.0   | 54.0   | 55.2   | 55.2   | 54.1   | 48.1   | 39.7 |   |   |   |   |
| (279. DEC K)       | 930    | 46.6   | 42.7   | 44.6   | 46.8   | 48.7   | 48.0   | 48.8   | 48.0   | 46.9   | 45.1   | 43.3 |   |   |   |   |
| T-WET 39. DEC F    | 1030   | 43.1   | 42.3   | 44.9   | 46.7   | 48.5   | 48.1   | 48.8   | 48.6   | 47.2   | 45.8   | 42.1 |   |   |   |   |
| (277. DEC K)       | 1130   | 50.9   | 51.9   | 54.7   | 56.1   | 60.6   | 62.4   | 61.4   | 59.8   | 57.2   | 49.9   | 41.5 |   |   |   |   |
| HACT 5.42 CM/MS    | 1230   | 46.5   | 45.2   | 48.8   | 51.7   | 63.4   | 65.2   | 64.9   | 63.6   | 62.1   | 53.1   | 44.5 |   |   |   |   |
| (-30542. CM/MS)    | 1330   | 44.9   | 44.4   | 45.0   | 41.4   | 63.4   | 64.2   | 64.0   | 63.2   | 62.5   | 52.5   | 43.6 |   |   |   |   |
| NFA 5527. RPF      | 1430   | 43.3   | 43.4   | 46.5   | 47.5   | 63.2   | 63.7   | 63.7   | 64.6   | 61.2   | 51.7   | 41.1 |   |   |   |   |
| ( 579. RAD/SEC)    | 1530   | 43.5   | 41.6   | 44.9   | 47.2   | 61.5   | 61.9   | 62.2   | 61.9   | 59.6   | 49.8   | 39.1 |   |   |   |   |
| NFK 5.20. RPM      | 1630   | 42.7   | 49.2   | 52.9   | 57.4   | 59.1   | 59.9   | 59.9   | 60.8   | 57.7   | 46.9   | 37.5 |   |   |   |   |
| ( 568. RAD/SEC)    | 1730   | 41.5   | 46.7   | 50.3   | 54.1   | 58.2   | 57.4   | 57.4   | 57.4   | 54.9   | 44.2   | 32.2 |   |   |   |   |
| NFD 8823. RPM      | 1830   | 40.8   | 43.6   | 48.1   | 52.6   | 54.3   | 55.9   | 55.7   | 55.5   | 53.0   | 40.7   | 28.1 |   |   |   |   |
| ( 924. RAD/SEC)    | 1930   | 39.4   | 40.3   | 43.9   | 48.5   | 51.2   | 53.0   | 51.8   | 52.2   | 48.0   | 35.1   | 22.8 |   |   |   |   |
| NO. OF BLADES 15   | 2030   | 33.6   | 33.3   | 37.1   | 41.5   | 44.5   | 45.6   | 46.5   | 45.8   | 39.9   | 25.7   | 10.7 |   |   |   |   |
| FAH TIP SPEED      | 2130   | 28.9   | 27.2   | 31.7   | 36.4   | 38.3   | 39.8   | 41.0   | 38.8   | 32.7   | 18.4   |      |   |   |   |   |
| 483. FT/SEC        | 2230   | 22.3   | 19.4   | 23.4   | 27.9   | 30.3   | 31.0   | 29.9   | 27.3   | 19.8   | 0.3    |      |   |   |   |   |
|                    | 2330   | 18.0   | 7.8    | 12.7   | 17.5   | 19.8   | 19.9   | 18.0   | 13.9   | 3.7    |        |      |   |   |   |   |
|                    | 2430   |        |        |        |        | 1.8    | 2.3    |        |        |        |        |      |   |   |   |   |
|                    | 2530   |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |
|                    | 2630   |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |
|                    | 2730   |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |
|                    | 2830   |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |
|                    | 2930   |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |
| OVERALL CALCULATED |        | 62.3   | 63.5   | 66.6   | 69.5   | 71.4   | 72.4   | 72.4   | 72.0   | 70.3   | 62.9   | 56.3 |   |   |   |   |
| PHCC               |        | 72.3   | 76.8   | 80.0   | 83.2   | 85.1   | 85.9   | 85.9   | 84.0   | 79.5   | 67.1   |      |   |   |   |   |



ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 59.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.    | 0. | 0. | 0. | 0. | 0. | PWL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|----|----|----|----|----|-------|
| FREQ.              | (1.52) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | 0.    | 0. | 0. | 0. | 0. | 0. |       |
| RADIAL 17. FT.     | 50     |        |        |        |        |        |        |        |        |        |        |       |    |    |    |    |    |       |
| ( 5. M)            | 63     |        |        |        |        |        |        |        |        |        |        |       |    |    |    |    |    |       |
| VEHICLE            | 100    | 69.0   | 73.1   | 76.9   | 77.5   | 77.3   | 76.0   | 72.9   | 68.2   | 83.2   | 76.9   | 76.1  |    |    |    |    |    | 110.9 |
| CONFIG R=55        | 125    | 68.0   | 67.8   | 71.4   | 68.9   | 71.5   | 68.8   | 68.9   | 70.7   | 83.2   | 74.2   | 75.8  |    |    |    |    |    | 108.3 |
| LCC SCHEMECTAD     | 160    | 65.8   | 66.6   | 66.9   | 67.1   | 68.8   | 67.8   | 69.7   | 71.2   | 81.8   | 76.2   | 76.3  |    |    |    |    |    | 107.3 |
| DATE 11/14/74      | 200    | 66.3   | 66.1   | 66.7   | 67.4   | 70.3   | 71.0   | 72.4   | 73.9   | 83.4   | 77.4   | 76.3  |    |    |    |    |    | 106.9 |
| RUM 17/4           | 250    | 65.8   | 68.8   | 70.2   | 70.5   | 72.5   | 72.3   | 73.4   | 73.4   | 84.0   | 76.4   | 76.8  |    |    |    |    |    | 110.0 |
| TAPE               | 315    | 68.8   | 69.1   | 70.7   | 71.4   | 72.5   | 73.0   | 73.4   | 73.7   | 85.7   | 76.4   | 76.3  |    |    |    |    |    | 110.5 |
| BAR 29.7 HG        | 400    | 68.3   | 68.8   | 69.7   | 70.4   | 72.8   | 72.5   | 73.2   | 73.9   | 85.9   | 75.4   | 74.3  |    |    |    |    |    | 110.5 |
| (100228. N/M2)     | 500    | 67.6   | 68.3   | 68.7   | 69.9   | 71.8   | 72.0   | 73.7   | 74.2   | 84.9   | 76.4   | 73.1  |    |    |    |    |    | 109.8 |
| TANK 40 DEG F      | 630    | 68.9   | 69.6   | 70.7   | 72.4   | 74.3   | 75.3   | 76.2   | 76.9   | 86.2   | 81.7   | 74.8  |    |    |    |    |    | 111.9 |
| (1292. DEG K)      | 800    | 71.4   | 71.8   | 72.4   | 73.7   | 75.1   | 76.1   | 77.9   | 79.2   | 86.7   | 81.9   | 75.1  |    |    |    |    |    | 112.8 |
| THET 42. DEG F     | 1000   | 69.4   | 70.6   | 72.9   | 73.9   | 75.8   | 77.1   | 78.7   | 79.9   | 87.2   | 78.4   | 73.3  |    |    |    |    |    | 112.9 |
| (1279. DEG K)      | 1250   | 73.4   | 75.4   | 76.7   | 78.5   | 81.4   | 82.6   | 84.7   | 85.7   | 89.7   | 84.5   | 78.8  |    |    |    |    |    | 117.2 |
| MACT 5.27 CM/M3    | 1600   | 73.1   | 75.6   | 77.7   | 79.8   | 81.6   | 82.6   | 84.7   | 85.9   | 90.7   | 82.9   | 76.6  |    |    |    |    |    | 117.6 |
| (100527 CM/M3)     | 2000   | 74.7   | 78.9   | 78.4   | 80.6   | 82.9   | 84.6   | 85.4   | 84.7   | 90.2   | 80.5   | 77.3  |    |    |    |    |    | 118.5 |
| NFA 5567. RPM      | 2500   | 76.1   | 78.9   | 81.2   | 84.3   | 86.4   | 87.1   | 89.1   | 90.1   | 93.0   | 84.9   | 81.1  |    |    |    |    |    | 121.1 |
| ( 583. RAD/SEC)    | 3150   | 75.1   | 78.7   | 80.9   | 83.9   | 86.7   | 87.6   | 88.6   | 89.4   | 94.4   | 85.0   | 81.6  |    |    |    |    |    | 121.5 |
| NFK 5427. RPM      | 4000   | 73.8   | 78.1   | 80.8   | 84.1   | 86.9   | 87.8   | 89.0   | 90.8   | 94.5   | 84.0   | 81.0  |    |    |    |    |    | 121.6 |
| ( 589. RAD/SEC)    | 5000   | 72.8   | 77.1   | 80.3   | 82.8   | 85.4   | 86.8   | 87.7   | 89.0   | 93.4   | 82.8   | 81.0  |    |    |    |    |    | 120.5 |
| NFD 8823. RPM      | 6300   | 71.4   | 75.4   | 78.2   | 81.7   | 83.8   | 85.0   | 86.5   | 88.3   | 93.5   | 81.7   | 83.3  |    |    |    |    |    | 120.1 |
| ( 924. RAD/SEC)    | 8000   | 69.2   | 73.6   | 76.3   | 79.9   | 82.2   | 84.0   | 85.3   | 86.5   | 93.5   | 80.1   | 85.2  |    |    |    |    |    | 119.5 |
| NO. OF BLADES 15   | 10000  | 69.5   | 72.5   | 75.3   | 79.3   | 81.5   | 83.1   | 84.6   | 86.3   | 95.6   | 80.9   | 86.6  |    |    |    |    |    | 120.7 |
| FAN TIP SPEED      | 12500  | 68.8   | 70.9   | 73.4   | 78.3   | 80.5   | 83.5   | 84.2   | 86.4   | 94.1   | 79.3   | 88.9  |    |    |    |    |    | 120.1 |
| (486. FT/SEC)      | 16000  | 65.3   | 68.2   | 70.6   | 74.3   | 77.9   | 79.2   | 82.3   | 84.3   | 93.0   | 76.7   | 90.1  |    |    |    |    |    | 119.1 |
| OVERALL MEASURED   | 20000  | 65.6   | 67.3   | 70.3   | 74.0   | 76.1   | 78.1   | 81.3   | 84.4   | 95.0   | 74.6   | 90.5  |    |    |    |    |    | 118.9 |
| OVERALL CALCULATED | 25000  | 66.1   | 68.0   | 68.5   | 72.5   | 75.0   | 76.5   | 79.5   | 80.6   | 97.4   | 74.7   | 87.6  |    |    |    |    |    | 116.1 |
| PNGR               | 31500  | 65.8   | 65.7   | 68.2   | 72.3   | 74.4   | 76.7   | 78.2   | 80.3   | 88.7   | 75.0   | 86.5  |    |    |    |    |    | 117.2 |
|                    | 40000  | 66.2   | 64.8   | 66.5   | 69.5   | 72.0   | 74.0   | 76.4   | 77.7   | 88.0   | 73.1   | 82.0  |    |    |    |    |    | 116.9 |
|                    | 50000  | 69.0   | 65.9   | 67.8   | 67.4   | 69.3   | 71.0   | 74.0   | 73.2   | 90.6   | 72.9   | 82.0  |    |    |    |    |    | 128.4 |
|                    | 63000  | 70.7   | 66.1   | 69.2   | 67.0   | 68.8   | 68.9   | 70.9   | 69.2   | 90.3   | 73.0   | 79.0  |    |    |    |    |    | 123.4 |
|                    | 80000  | 73.1   | 68.7   | 71.4   | 68.7   | 69.9   | 70.6   | 71.0   | 70.5   | 90.8   | 74.8   | 74.8  |    |    |    |    |    | 126.8 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |       |    |    |    |    |    |       |
| OVERALL CALCULATED |        | 85.6   | 87.9   | 90.2   | 92.9   | 95.2   | 96.4   | 97.8   | 99.1   | 100.8  | 95.8   | 98.1  |    |    |    |    |    | 134.2 |
| PNGR               |        | 98.2   | 101.2  | 103.3  | 106.1  | 108.6  | 109.5  | 110.8  | 112.1  | 113.3  | 108.9  | 105.5 |    |    |    |    |    |       |

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ. (1.62) (1.19) (1.36) (1.53) (1.71) (1.88) (2.06) (2.24) (2.42) (2.60) (2.78) (0. 10. 20. 30. 40. 50.)

|                    | 50    | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 0.   | 0. | 0. | 0. | 0. |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|
| SIDELINE 200. FT.  | 63    |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
| ( 60.96 M)         | 80    |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
| VEHICLE R-55       | 100   | 46.0 | 50.8 | 55.2 | 56.1 | 55.0 | 54.0 | 50.2 | 44.4 | 5.0  | 49.3 | 46.7 |    |    |    |    |
| CONFIG 21          | 125   | 44.9 | 45.5 | 49.6 | 47.2 | 49.8 | 46.7 | 46.2 | 46.8 | 5.7  | 46.4 | 44.2 |    |    |    |    |
| LCC SCHEMECTAD     | 160   | 42.6 | 44.2 | 45.0 | 45.4 | 47.0 | 45.6 | 46.8 | 47.2 | 5.3  | 46.2 | 44.5 |    |    |    |    |
| DATE 11/14/74      | 200   | 43.0 | 43.6 | 44.7 | 45.6 | 48.4 | 48.7 | 49.5 | 49.8 | 5.7  | 49.3 | 46.2 |    |    |    |    |
| RUN 17/4           | 250   | 45.4 | 46.2 | 48.1 | 48.7 | 50.6 | 49.9 | 50.4 | 49.2 | 5.1  | 49.1 | 44.5 |    |    |    |    |
| TAPE               | 315   | 45.3 | 46.4 | 48.5 | 49.4 | 50.5 | 50.6 | 50.3 | 49.4 | 5.7  | 48.0 | 43.7 |    |    |    |    |
| BAR 29.7 HG        | 400   | 44.7 | 46.1 | 47.4 | 48.3 | 50.7 | 50.0 | 49.9 | 49.5 | 5.8  | 46.8 | 41.5 |    |    |    |    |
| (30228. N/M2)      | 500   | 43.9 | 45.5 | 46.3 | 47.8 | 49.6 | 49.4 | 50.3 | 49.7 | 5.7  | 47.6 | 39.9 |    |    |    |    |
| TAMB 48. DEG F     | 630   | 45.0 | 46.6 | 48.2 | 50.2 | 52.0 | 52.6 | 52.7 | 52.3 | 5.4  | 52.7 | 41.4 |    |    |    |    |
| (292. DEG K)       | 800   | 47.4 | 48.7 | 49.9 | 51.3 | 52.6 | 53.2 | 54.3 | 54.4 | 6.1  | 52.7 | 41.3 |    |    |    |    |
| TMET 42. DEG F     | 1000  | 45.2 | 47.4 | 50.2 | 51.4 | 53.2 | 54.1 | 54.9 | 55.0 | 6.4  | 48.9 | 39.2 |    |    |    |    |
| (279. DEG K)       | 1250  | 49.1 | 52.0 | 53.8 | 55.9 | 58.7 | 59.7 | 60.8 | 60.5 | 6.7  | 54.7 | 44.3 |    |    |    |    |
| NACT 5.27 CM/M3    | 1600  | 45.7 | 52.1 | 54.7 | 57.0 | 58.8 | 59.3 | 60.6 | 60.6 | 6.5  | 52.6 | 41.5 |    |    |    |    |
| (1.00527 KG/M3)    | 2000  | 53.0 | 53.2 | 55.2 | 57.6 | 59.9 | 61.1 | 61.1 | 59.1 | 6.7  | 50.0 | 41.7 |    |    |    |    |
| NFA 5567. RPM      | 2500  | 51.2 | 55.0 | 57.8 | 61.2 | 63.2 | 63.5 | 64.6 | 64.3 | 6.2  | 53.9 | 44.9 |    |    |    |    |
| ( 503. RAD/SEC)    | 3150  | 49.9 | 54.4 | 57.2 | 60.4 | 63.2 | 63.7 | 63.8 | 63.2 | 6.2  | 53.6 | 44.6 |    |    |    |    |
| NFK 5027. RPM      | 4000  | 49.1 | 53.5 | 56.8 | 60.3 | 63.0 | 63.4 | 63.8 | 64.1 | 6.8  | 51.7 | 42.8 |    |    |    |    |
| ( 589. RAD/SEC)    | 5000  | 46.8 | 52.2 | 55.7 | 58.8 | 61.2 | 62.1 | 62.2 | 62.0 | 6.9  | 50.2 | 42.0 |    |    |    |    |
| NFD 8023. RPM      | 6300  | 44.5 | 49.7 | 53.2 | 56.9 | 58.9 | 59.7 | 60.1 | 60.4 | 6.3  | 47.5 | 42.3 |    |    |    |    |
| ( 924. RAD/SEC)    | 8000  | 41.1 | 46.7 | 50.1 | 54.1 | 56.2 | 57.4 | 57.7 | 57.2 | 6.5  | 43.8 | 40.9 |    |    |    |    |
| NO. OF BLADES IS   | 10000 | 39.6 | 44.0 | 47.6 | 51.9 | 54.1 | 55.0 | 55.3 | 55.0 | 6.3  | 41.6 | 37.0 |    |    |    |    |
| FAN TIP SPEED      | 12500 | 36.2 | 40.0 | 43.5 | 46.8 | 50.8 | 53.1 | 52.4 | 52.3 | 5.3  | 35.5 | 33.5 |    |    |    |    |
| 400. FT/SEC        | 16000 | 28.5 | 33.4 | 37.0 | 41.1 | 44.6 | 45.0 | 46.4 | 45.4 | 4.6  | 25.8 | 24.0 |    |    |    |    |
|                    | 20000 | 23.1 | 27.4 | 31.8 | 36.1 | 37.9 | 38.9 | 39.9 | 39.4 | 4.1  | 15.9 | 10.1 |    |    |    |    |
|                    | 25000 | 15.6 | 19.6 | 23.1 | 27.9 | 30.0 | 30.2 | 30.4 | 26.8 | 3.0  | 0.3  |      |    |    |    |    |
|                    | 31500 | 3.4  | 7.7  | 12.6 | 17.7 | 19.4 | 19.8 | 17.7 | 13.6 | 1.0  |      |      |    |    |    |    |
|                    | 40000 |      |      |      | 0.1  | 2.1  | 1.5  |      |      |      |      |      |    |    |    |    |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
| OVERALL CALCULATED |       | 60.0 | 63.5 | 66.3 | 69.0 | 71.2 | 71.8 | 72.2 | 71.9 | 75.3 | 64.9 | 56.5 |    |    |    |    |
| PNBP               |       | 72.9 | 76.8 | 79.6 | 82.5 | 84.9 | 85.4 | 85.7 | 85.6 | 88.9 | 77.8 | 68.2 |    |    |    |    |



|                    | FREQ. | MODEL SOUND PRESSURE LEVELS (50, DEG. F. 70 PERCENT REL. HUM. DAY) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------------------|-------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                    |       | ANGLES FROM INLET IN DEGREES (AND RAD/ANS)                         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    |       | 50.  | 60.    | 70.    | 75.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.     | 0.     | 0.     | 0.     |
|                    |       | (1.02)   | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (2.96) | (3.14) | (3.32) | (3.50) | (3.68) |
| SIDELINE 200. FT.  | 50    |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ( 60.96 M)         | 63    |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE R-55       | 100   | 51.0   | 52.1   | 48.9   | 49.1   | 52.6   | 50.3   | 50.7   | 49.1   | 48.4   | 50.0   | 50.2   |        |        |        |        |        |
| CONFIG 21          | 125   | 46.6   | 48.3   | 50.6   | 50.0   | 52.6   | 49.9   | 49.4   | 50.1   | 50.7   | 49.9   | 49.0   |        |        |        |        |        |
| LCC SCHEMECTADY    | 160   | 45.8   | 47.4   | 47.8   | 48.4   | 51.7   | 48.6   | 50.6   | 50.9   | 51.8   | 51.5   | 49.0   |        |        |        |        |        |
| DATE 11/14/74      | 200   | 46.2   | 46.3   | 47.7   | 49.3   | 52.9   | 53.0   | 52.5   | 53.8   | 52.7   | 53.1   | 50.0   |        |        |        |        |        |
| RUN 17/5           | 250   | 47.9   | 49.0   | 51.1   | 52.5   | 53.8   | 52.9   | 53.9   | 53.0   | 52.6   | 52.4   | 48.7   |        |        |        |        |        |
| TAPE               | 315   | 49.3   | 50.9   | 52.0   | 53.4   | 55.5   | 53.6   | 53.5   | 52.9   | 53.0   | 52.0   | 48.0   |        |        |        |        |        |
| BAR 29.7 HG        | 400   | 47.9   | 49.3   | 50.4   | 51.3   | 58.2   | 53.0   | 52.9   | 53.0   | 52.3   | 50.3   | 48.0   |        |        |        |        |        |
| (08220. N/M2)      | 500   | 46.4   | 48.0   | 49.1   | 50.8   | 57.8   | 51.9   | 53.6   | 51.9   | 51.7   | 49.4   | 45.2   |        |        |        |        |        |
| TAMB 40. DEG F     | 630   | 47.8   | 49.6   | 51.2   | 52.9   | 57.3   | 55.3   | 55.2   | 55.3   | 55.3   | 51.2   | 45.1   |        |        |        |        |        |
| (202. DEG K)       | 800   | 49.4   | 50.3   | 52.1   | 53.3   | 59.6   | 55.2   | 56.8   | 56.1   | 55.6   | 50.9   | 45.3   |        |        |        |        |        |
| TMET 42. DEG F     | 1000  | 47.7   | 50.1   | 52.2   | 53.9   | 57.7   | 56.8   | 57.4   | 57.5   | 55.9   | 50.2   | 43.4   |        |        |        |        |        |
| (270. DEG K)       | 1250  | 49.1   | 52.2   | 54.6   | 56.1   | 58.4   | 59.7   | 60.3   | 60.3   | 58.7   | 51.9   | 44.5   |        |        |        |        |        |
| NACT 5.27 CM/M3    | 1600  | 57.2   | 60.8   | 66.7   | 64.2   | 64.8   | 67.1   | 65.8   | 67.1   | 67.0   | 56.4   | 48.3   |        |        |        |        |        |
| (.00527 KG/M3)     | 2050  | 52.5   | 56.7   | 58.7   | 61.1   | 63.1   | 64.4   | 64.1   | 63.1   | 60.4   | 52.3   | 45.9   |        |        |        |        |        |
| NFA 6355. RPM      | 2500  | 52.2   | 56.5   | 59.3   | 63.5   | 65.4   | 66.0   | 65.1   | 64.3   | 61.9   | 53.4   | 45.2   |        |        |        |        |        |
| ( 665. RAD/SEC)    | 3150  | 53.7   | 58.7   | 61.7   | 65.7   | 67.4   | 68.2   | 68.6   | 68.4   | 66.5   | 57.9   | 48.8   |        |        |        |        |        |
| NPK 6423. RPM      | 4000  | 51.4   | 57.0   | 60.3   | 63.3   | 65.5   | 66.4   | 66.8   | 65.6   | 63.5   | 53.5   | 46.0   |        |        |        |        |        |
| ( 673. RAD/SEC)    | 5000  | 51.0   | 56.7   | 60.3   | 63.3   | 66.0   | 66.6   | 66.9   | 66.2   | 62.6   | 53.0   | 44.8   |        |        |        |        |        |
| NFC 8023. RPM      | 6300  | 48.0   | 53.7   | 56.9   | 60.9   | 62.9   | 64.2   | 64.1   | 63.6   | 60.8   | 50.5   | 44.8   |        |        |        |        |        |
| ( 924. RAD/SEC)    | 8000  | 45.1   | 51.0   | 54.9   | 58.4   | 60.7   | 61.7   | 62.0   | 61.5   | 57.0   | 47.1   | 42.2   |        |        |        |        |        |
| NO. OF BLADES 15   | 10000 | 42.6   | 48.2   | 52.6   | 56.9   | 59.1   | 60.0   | 60.0   | 60.0   | 55.5   | 44.6   | 38.9   |        |        |        |        |        |
| FAN TIP SPEED      | 12500 | 39.2   | 44.5   | 48.8   | 53.3   | 55.8   | 56.1   | 56.6   | 55.5   | 50.3   | 38.3   | 34.3   |        |        |        |        |        |
| 555. FT/SEC        | 16000 | 31.5   | 37.9   | 42.0   | 45.6   | 49.1   | 50.2   | 49.9   | 48.9   | 42.1   | 28.4   | 25.5   |        |        |        |        |        |
|                    | 20000 | 25.1   | 31.1   | 36.1   | 40.3   | 42.9   | 43.7   | 44.7   | 42.4   | 35.1   | 18.9   | 12.4   |        |        |        |        |        |
|                    | 25000 | 17.3   | 22.9   | 27.8   | 32.4   | 34.5   | 34.9   | 34.6   | 31.8   | 23.0   | 3.1    |        |        |        |        |        |        |
|                    | 31500 | 4.9  | 11.4   | 17.1   | 21.9   | 23.7   | 24.3   | 22.5   | 17.6   | 6.7    |        |        |        |        |        |        |        |
|                    | 40000 |  |        |        | 4.4    | 6.1    | 6.3    | 3.4    |        |        |        |        |        |        |        |        |        |
|                    | 50000 |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 63000 |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 80000 |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |       | 63.6   | 67.3   | 70.9   | 72.8   | 74.9   | 75.6   | 75.6   | 75.2   | 73.3   | 66.6   | 60.1   |        |        |        |        |        |
| PNB                |       | 76.3   | 80.7   | 83.7   | 84.8   | 86.9   | 89.4   | 89.6   | 89.3   | 87.3   | 79.4   | 71.8   |        |        |        |        |        |

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | FREQ. | 58°    | 60°    | 70°    | 80°    | 90°    | 100°   | 110°   | 120°   | 130°   | 140°   | 150°   | 0°     | 0° | 0° | 0° | 0° | 0° | 0° |       |       |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----|----|----|----|----|-------|-------|
|                    |       | (1.02) | (1.10) | (1.36) | (1.53) | (1.71) | (1.98) | (2.26) | (2.54) | (2.82) | (3.10) | (3.38) | (3.66) | 0. | 0. | 0. | 0. | 0. | 0. | 0.    |       |
| RADIAL 17. FT.     | 50    |        |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |       |       |
| VEHICLE            | 63    |        |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |       |       |
| CONFIG 21          | 100   | 68.3   | 71.6   | 72.4   | 73.1   | 74.0   | 74.0   | 74.4   | 74.4   | 76.0   | 84.7   | 85.3   |        |    |    |    |    |    |    | 111.2 |       |
| LCC SCHEMECTADY    | 125   | 75.0   | 79.6   | 79.2   | 78.6   | 79.5   | 77.7   | 77.9   | 79.4   | 80.2   | 84.7   | 85.1   |        |    |    |    |    |    |    | 113.9 |       |
| DATE 11/14/74      | 160   | 72.0   | 73.1   | 73.2   | 74.3   | 74.8   | 75.5   | 77.4   | 78.9   | 80.9   | 86.9   | 85.1   |        |    |    |    |    |    |    | 113.0 |       |
| WIND 17/6          | 200   | 72.3   | 71.3   | 72.7   | 74.6   | 77.0   | 78.2   | 79.7   | 81.1   | 81.9   | 86.2   | 86.3   |        |    |    |    |    |    |    | 113.0 |       |
| TAPE               | 250   | 74.0   | 74.6   | 76.4   | 78.3   | 79.5   | 80.0   | 81.2   | 81.4   | 82.4   | 87.7   | 85.1   |        |    |    |    |    |    |    | 115.0 |       |
| BAR 29.7 MG        | 315   | 76.0   | 76.8   | 77.4   | 78.3   | 79.0   | 79.7   | 80.4   | 80.9   | 82.4   | 86.7   | 84.1   |        |    |    |    |    |    |    | 114.6 |       |
| YAW 40. DEG F      | 400   | 75.1   | 75.1   | 75.9   | 77.1   | 78.3   | 79.0   | 79.7   | 80.6   | 81.4   | 85.2   | 82.0   |        |    |    |    |    |    |    | 113.0 |       |
| ROLL 42. DEG K     | 500   | 73.1   | 73.3   | 74.2   | 76.4   | 77.8   | 78.5   | 80.2   | 80.9   | 81.2   | 87.2   | 81.0   |        |    |    |    |    |    |    | 113.0 |       |
| ROLL RATE          | 630   | 74.6   | 75.3   | 76.4   | 78.6   | 80.6   | 81.5   | 82.2   | 82.9   | 83.7   | 86.2   | 81.0   |        |    |    |    |    |    |    | 115.2 |       |
| YAW RATE           | 800   | 76.1   | 75.8   | 77.7   | 80.4   | 81.3   | 82.3   | 83.9   | 84.8   | 85.7   | 87.7   | 81.6   |        |    |    |    |    |    |    | 118.3 |       |
| ROLL RATE          | 1000  | 75.1   | 75.8   | 77.7   | 79.6   | 81.3   | 82.5   | 83.9   | 84.6   | 85.2   | 86.9   | 80.1   |        |    |    |    |    |    |    | 110.3 |       |
| ROLL RATE          | 1250  | 76.1   | 77.4   | 79.2   | 80.9   | 83.3   | 84.6   | 86.1   | 86.9   | 86.9   | 88.2   | 86.6   |        |    |    |    |    |    |    | 118.3 |       |
| ROLL RATE          | 1600  | 78.4   | 81.6   | 82.7   | 86.7   | 89.1   | 90.1   | 91.4   | 90.9   | 91.2   | 88.5   | 82.1   |        |    |    |    |    |    |    | 122.4 |       |
| ROLL RATE          | 2000  | 81.4   | 84.4   | 85.2   | 88.8   | 91.9   | 93.0   | 93.9   | 92.6   | 92.2   | 91.5   | 83.8   |        |    |    |    |    |    |    | 124.9 |       |
| ROLL RATE          | 2500  | 79.9   | 82.9   | 85.4   | 89.3   | 90.7   | 91.6   | 91.9   | 92.3   | 91.2   | 90.0   | 83.1   |        |    |    |    |    |    |    | 123.7 |       |
| ROLL RATE          | 3150  | 80.9   | 84.7   | 87.9   | 90.6   | 92.9   | 93.3   | 94.3   | 96.1   | 94.7   | 93.0   | 85.0   |        |    |    |    |    |    |    | 126.4 |       |
| ROLL RATE          | 4000  | 81.3   | 85.9   | 88.8   | 91.5   | 93.4   | 95.8   | 96.0   | 96.2   | 94.9   | 92.7   | 87.0   |        |    |    |    |    |    |    | 127.3 |       |
| ROLL RATE          | 5000  | 80.5   | 84.9   | 87.5   | 90.8   | 93.1   | 95.8   | 95.7   | 95.4   | 93.1   | 93.7   | 85.8   |        |    |    |    |    |    |    | 126.7 |       |
| ROLL RATE          | 6300  | 78.1   | 83.4   | 86.0   | 89.4   | 91.5   | 92.8   | 94.0   | 95.3   | 91.9   | 94.2   | 85.3   |        |    |    |    |    |    |    | 125.0 |       |
| ROLL RATE          | 8000  | 77.5   | 81.9   | 84.8   | 88.4   | 90.3   | 91.9   | 92.8   | 93.5   | 91.2   | 95.6   | 86.4   |        |    |    |    |    |    |    | 124.0 |       |
| ROLL RATE          | 10000 | 76.5   | 81.0   | 84.6   | 87.5   | 90.3   | 92.3   | 92.6   | 94.0   | 91.4   | 93.9   | 86.4   |        |    |    |    |    |    |    | 124.9 |       |
| ROLL RATE          | 12500 | 76.0   | 79.7   | 82.7   | 86.8   | 89.0   | 90.5   | 92.2   | 92.6   | 90.4   | 95.6   | 89.6   |        |    |    |    |    |    |    | 124.9 |       |
| ROLL RATE          | 16000 | 72.8   | 76.9   | 79.6   | 83.5   | 86.4   | 87.9   | 90.3   | 91.2   | 87.7   | 95.5   | 82.1   |        |    |    |    |    |    |    | 123.5 |       |
| ROLL RATE          | 20000 | 71.6   | 76.0   | 79.1   | 82.9   | 85.6   | 87.4   | 90.3   | 90.9   | 88.2   | 96.3   | 83.7   |        |    |    |    |    |    |    | 124.2 |       |
| ROLL RATE          | 25000 | 70.9   | 73.9   | 77.3   | 82.2   | 84.2   | 85.5   | 88.3   | 89.0   | 86.1   | 94.5   | 84.6   |        |    |    |    |    |    |    | 123.0 |       |
| ROLL RATE          | 31500 | 70.6   | 73.5   | 76.4   | 81.2   | 83.2   | 85.4   | 87.0   | 88.5   | 86.0   | 92.8   | 84.5   |        |    |    |    |    |    |    | 123.0 |       |
| ROLL RATE          | 40000 | 69.7   | 71.6   | 74.8   | 78.9   | 81.3   | 83.2   | 85.6   | 85.5   | 83.5   | 90.1   | 83.0   |        |    |    |    |    |    |    | 124.1 |       |
| ROLL RATE          | 50000 | 71.0   | 68.9   | 72.1   | 78.1   | 79.6   | 81.5   | 83.5   | 82.7   | 80.1   | 91.7   | 82.7   |        |    |    |    |    |    |    | 124.1 |       |
| ROLL RATE          | 63000 | 72.5   | 67.8   | 70.5   | 77.9   | 79.3   | 79.8   | 80.9   | 79.2   | 75.0   | 92.3   | 80.5   |        |    |    |    |    |    |    | 123.0 |       |
| ROLL RATE          | 80000 | 74.6   | 70.2   | 71.6   | 78.6   | 79.6   | 80.6   | 81.8   | 86.5   | 72.6   | 93.0   | 86.3   |        |    |    |    |    |    |    | 130.2 |       |
| OVERALL MEASURED   |       |        |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |       |       |
| OVERALL CALCULATED |       | 91.3   | 84.5   | 96.9   | 100.1  | 102.2  | 103.8  | 104.7  | 109.2  | 103.5  | 106.7  | 103.5  |        |    |    |    |    |    |    |       | 130.2 |
| PNCD               |       | 104.3  | 107.9  | 110.4  | 112.2  | 115.1  | 116.9  | 117.4  | 117.8  | 116.6  | 118.7  | 118.0  |        |    |    |    |    |    |    |       |       |

ORIGINAL PAGE IS OF POOR QUALITY

|                    | MODEL SOUND PRESSURE LEVELS (50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 0, 0, 0, 0, 0, 0) |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
|--------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|
|                    | ANGLES FROM INLET IN DEGREES (AND RADIANS)   |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
|                    | FREQ.  | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0) | (0) | (0) | (0) | (0) |
| SIDELINE 200. FT.  | 63   |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
| ( 60.96 M)         | 100  | 49.2   | 49.3   | 50.7   | 51.5   | 52.4   | 52.0   | 51.7   | 50.6   | 51.6   | 57.0   | 53.9   |     |     |     |     |     |
| VEHICLE R-55       | 125  | 51.9   | 57.3   | 57.3   | 56.0   | 57.8   | 55.6   | 55.1   | 55.5   | 54.7   | 54.0   | 53.5   |     |     |     |     |     |
| CONFIG 21          | 140  | 49.6   | 50.7   | 51.3   | 52.6   | 53.0   | 53.3   | 54.6   | 54.0   | 55.3   | 59.0   | 53.2   |     |     |     |     |     |
| LOC SCHENECTADY    | 200  | 49.0   | 48.0   | 50.7   | 52.0   | 55.1   | 56.0   | 56.7   | 57.0   | 56.2   | 50.1   | 54.2   |     |     |     |     |     |
| DATE 11/14/74      | 250  | 51.4   | 52.0   | 54.3   | 56.4   | 57.5   | 57.6   | 58.1   | 57.2   | 56.6   | 50.4   | 52.7   |     |     |     |     |     |
| WLN 17/6           | 315  | 52.5   | 54.2   | 55.2   | 56.4   | 57.0   | 57.3   | 57.3   | 56.6   | 56.5   | 56.2   | 51.3   |     |     |     |     |     |
| TAPE               | 400  | 51.4   | 52.3   | 53.7   | 54.9   | 56.1   | 56.5   | 56.4   | 56.2   | 55.3   | 56.6   | 50.0   |     |     |     |     |     |
| BAR 29.7 HG        | 530  | 49.4   | 53.5   | 51.4   | 54.2   | 55.6   | 55.9   | 56.8   | 56.4   | 54.0   | 50.4   | 48.4   |     |     |     |     |     |
| (30220. N/M2)      | 630  | 50.8   | 52.4   | 54.0   | 56.4   | 58.2   | 58.0   | 58.7   | 58.2   | 57.3   | 57.2   | 48.4   |     |     |     |     |     |
| TAMB 46. DEG F     | 630  | 52.1   | 52.7   | 55.1   | 58.3   | 58.9   | 59.4   | 60.3   | 59.8   | 57.1   | 58.4   | 47.0   |     |     |     |     |     |
| (202. DEG K)       | 1000   | 51.0   | 52.6   | 55.0   | 57.1   | 58.7   | 59.6   | 60.2   | 59.7   | 58.4   | 57.4   | 45.9   |     |     |     |     |     |
| INLET 42. DEG F    | 1250   | 51.9   | 54.0   | 56.3   | 58.3   | 60.6   | 61.4   | 62.3   | 61.7   | 60.0   | 50.4   | 46.0   |     |     |     |     |     |
| (279. DEG K)       | 1400   | 53.9   | 58.1   | 59.7   | 63.7   | 66.3   | 66.0   | 67.3   | 65.5   | 64.0   | 50.4   | 47.0   |     |     |     |     |     |
| MACH 5.27 GM/M3    | 2000   | 56.7   | 60.7   | 62.0   | 65.0   | 68.0   | 70.1   | 69.6   | 67.0   | 64.7   | 61.0   | 48.2   |     |     |     |     |     |
| (.60527 KG/M3)     | 2500   | 55.0   | 59.0   | 62.0   | 64.2   | 67.4   | 67.9   | 67.4   | 66.5   | 63.4   | 59.2   | 46.0   |     |     |     |     |     |
| MFA 7194. RPM      | 3150   | 55.7   | 60.4   | 64.2   | 67.1   | 69.4   | 69.4   | 69.5   | 69.9   | 66.5   | 61.0   | 48.0   |     |     |     |     |     |
| ( 753. RAD/SEC)    | 4000   | 55.6   | 61.2   | 64.8   | 67.7   | 69.5   | 71.4   | 70.8   | 69.5   | 66.0   | 60.5   | 48.0   |     |     |     |     |     |
| MFK 7272. RPM      | 5050   | 54.5   | 59.9   | 63.2   | 64.7   | 69.3   | 70.4   | 70.2   | 68.4   | 63.9   | 61.0   | 46.0   |     |     |     |     |     |
| ( 761. RAD/SEC)    | 6300   | 51.3   | 57.7   | 60.9   | 64.6   | 66.6   | 67.4   | 67.6   | 67.3   | 61.5   | 60.0   | 44.3   |     |     |     |     |     |
| MFD 8823. RPM      | 8000   | 49.4   | 55.0   | 58.6   | 62.6   | 64.0   | 65.4   | 65.2   | 64.2   | 59.2   | 59.3   | 42.2   |     |     |     |     |     |
| ( 924. RAD/SEC)    | 10000  | 46.6   | 52.5   | 56.9   | 60.1   | 62.0   | 64.2   | 63.3   | 62.7   | 57.0   | 54.6   | 39.6   |     |     |     |     |     |
| NO. OF BLADES 15   | 12500  | 43.5   | 48.0   | 52.8   | 57.2   | 59.3   | 60.0   | 60.4   | 58.5   | 52.6   | 51.8   | 34.3   |     |     |     |     |     |
| FAN TIP SPEED      | 16000  | 36.0   | 42.1   | 46.0   | 50.3   | 53.1   | 53.7   | 54.4   | 52.4   | 44.3   | 44.4   | 26.0   |     |     |     |     |     |
| 620. FT/SEC        | 20000  | 29.1   | 36.1   | 40.6   | 45.6   | 47.4   | 48.1   | 48.9   | 45.0   | 37.4   | 35.6   | 13.3   |     |     |     |     |     |
|                    | 25000  | 20.3   | 26.6   | 31.0   | 37.6   | 39.2   | 39.1   | 39.1   | 36.0   | 24.0   | 20.1   |        |     |     |     |     |     |
|                    | 31500  | 8.2    | 15.4   | 20.9   | 26.6   | 28.2   | 28.5   | 28.5   | 21.0   | 9.2    |        |        |     |     |     |     |     |
|                    | 40000  |        |        | 3.3    | 9.6    | 11.4   | 10.7   | 8.2    |        |        |        |        |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
| OVERALL CALCULATED |  | 65.0   | 69.0   | 72.5   | 75.7   | 77.7   | 78.7   | 78.6   | 77.5   | 74.3   | 72.2   | 63.1   |     |     |     |     |     |
| PNBB               |  | 78.0   | 83.4   | 86.4   | 89.5   | 91.3   | 92.6   | 92.3   | 91.4   | 88.3   | 85.2   | 73.3   |     |     |     |     |     |

MODEL SOUND PRESSURE LEVELS (50. DEC. F. 70 PERCENT DEL. HUN. LAV)

ANGLES FROM INLET IN DEGREES (AND HAZARD)

|                    | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 160.   | 170.   | 180.   | PaL    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ.              | (1.02) | (1.12) | (1.36) | (1.53) | (1.71) | (1.98) | (2.26) | (2.54) | (2.82) | (3.10) | (3.38) | (3.66) | (3.94) | (4.22) | (4.50) |
| RADIAL 17. FT.     | 30     |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ( S. N.)           | 100    | 72.5   | 73.8   | 74.9   | 75.1   | 75.5   | 76.5   | 76.9   | 77.4   | 80.6   | 83.0   | 89.0   |        |        |        |
| VEHICLE R-55       | 125    | 79.5   | 78.8   | 76.4   | 78.1   | 80.8   | 81.5   | 81.7   | 82.1   | 84.1   | 82.3   | 84.8   |        |        |        |
| CONFIG 21          | 160    | 76.5   | 77.3   | 77.1   | 77.6   | 78.5   | 78.7   | 83.4   | 82.1   | 84.4   | 83.9   | 89.0   |        |        |        |
| LOC SCHELECTAB     | 230    | 76.8   | 75.5   | 76.7   | 76.9   | 79.3   | 81.7   | 82.2   | 83.9   | 85.8   | 85.0   | 90.3   |        |        |        |
| DATE 11/14/74      | 250    | 79.7   | 79.5   | 80.9   | 81.6   | 82.5   | 83.2   | 84.9   | 84.9   | 86.1   | 85.0   | 89.5   |        |        |        |
| RVA 17/7           | 315    | 79.5   | 80.8   | 80.4   | 81.3   | 82.3   | 82.7   | 83.2   | 84.6   | 85.6   | 87.0   | 88.5   |        |        |        |
| TAPE               | 400    | 79.8   | 78.5   | 79.1   | 80.1   | 81.5   | 81.5   | 82.9   | 84.1   | 84.3   | 85.3   | 86.5   |        |        |        |
| BAR 20.7 MC        | 500    | 76.8   | 77.3   | 77.4   | 79.1   | 83.5   | 81.3   | 82.7   | 83.8   | 84.1   | 85.3   | 85.5   |        |        |        |
| (30222. N/M2)      | 630    | 78.6   | 79.0   | 79.9   | 81.4   | 83.3   | 84.3   | 85.4   | 85.6   | 86.1   | 87.6   | 85.3   |        |        |        |
| TANW 49. DEC F     | 800    | 81.1   | 81.8   | 82.1   | 82.4   | 83.3   | 84.5   | 86.2   | 86.6   | 87.1   | 87.3   | 85.5   |        |        |        |
| (283. DEC K)       | 1000   | 78.1   | 79.8   | 80.6   | 82.1   | 83.3   | 84.8   | 85.9   | 87.1   | 86.6   | 87.1   | 83.8   |        |        |        |
| YMET 22. DEC F     | 1250   | 70.8   | 80.3   | 81.5   | 83.4   | 85.3   | 86.8   | 87.7   | 89.1   | 88.9   | 89.3   | 84.1   |        |        |        |
| (279. DEC K)       | 1620   | 80.1   | 81.8   | 83.8   | 85.7   | 87.6   | 88.6   | 89.9   | 90.4   | 89.6   | 89.6   | 83.1   |        |        |        |
| RACT 4.98 CM/M3    | 2000   | 85.6   | 88.1   | 88.4   | 94.0   | 94.9   | 98.1   | 98.6   | 96.4   | 95.6   | 95.6   | 87.6   |        |        |        |
| (100499 KG/M3)     | 2500   | 84.4   | 88.3   | 89.4   | 92.5   | 94.2   | 94.6   | 95.1   | 95.8   | 92.4   | 92.4   | 86.5   |        |        |        |
| MFA 7942. RPM      | 3150   | 83.4   | 87.6   | 89.6   | 92.3   | 94.7   | 95.1   | 96.1   | 97.8   | 93.9   | 93.9   | 87.8   |        |        |        |
| ( 832. RAD/SEC)    | 4000   | 85.6   | 91.1   | 92.6   | 96.1   | 96.7   | 98.3   | 99.5   | 100.5  | 96.8   | 96.8   | 91.7   |        |        |        |
| RPK 820. RPM       | 5000   | 83.3   | 86.3   | 93.5   | 94.8   | 95.9   | 97.8   | 97.5   | 98.2   | 93.3   | 93.3   | 91.2   |        |        |        |
| ( 848. RAD/SEC)    | 6300   | 87.6   | 87.9   | 90.2   | 93.4   | 96.3   | 97.8   | 97.3   | 98.5   | 93.5   | 93.5   | 93.8   |        |        |        |
| MFD 8623. RPM      | 8000   | 81.8   | 86.1   | 88.8   | 91.4   | 93.5   | 95.2   | 96.3   | 97.8   | 92.4   | 92.4   | 95.7   |        |        |        |
| ( 924. RAD/SEC)    | 10000  | 81.3   | 85.9   | 89.1   | 91.4   | 93.8   | 95.3   | 96.6   | 97.3   | 93.6   | 93.6   | 97.6   |        |        |        |
| NO. OF BLADES 15   | 12500  | 81.3   | 84.7   | 87.4   | 89.8   | 92.8   | 94.8   | 96.3   | 97.7   | 92.1   | 92.1   | 87.6   |        |        |        |
| FAN TIP SPEED      | 16000  | 77.3   | 81.7   | 83.9   | 87.8   | 90.8   | 91.5   | 93.6   | 94.5   | 89.9   | 89.9   | 90.4   |        |        |        |
| 603. FT/SEC        | 20000  | 77.4   | 80.8   | 84.1   | 86.5   | 89.9   | 91.4   | 93.9   | 95.8   | 90.2   | 90.2   | 99.3   |        |        |        |
|                    | 25000  | 78.5   | 80.2   | 82.8   | 85.9   | 88.6   | 90.9   | 93.6   | 93.9   | 90.7   | 90.7   | 95.4   |        |        |        |
|                    | 31500  | 77.8   | 79.2   | 81.7   | 84.8   | 87.7   | 89.9   | 91.5   | 92.3   | 89.2   | 89.2   | 93.5   |        |        |        |
|                    | 40000  | 77.5   | 77.3   | 79.9   | 82.7   | 84.8   | 87.8   | 88.9   | 89.7   | 86.4   | 86.4   | 90.7   |        |        |        |
|                    | 50000  | 79.2   | 77.8   | 79.8   | 80.6   | 82.0   | 84.4   | 84.2   | 85.9   | 83.3   | 83.3   | 89.4   |        |        |        |
|                    | 63000  | 81.3   | 76.1   | 78.8   | 78.1   | 79.9   | 80.7   | 82.8   | 80.8   | 80.3   | 80.3   | 80.9   |        |        |        |
|                    | 80000  | 83.1   | 78.1   | 81.1   | 78.9   | 79.6   | 80.8   | 82.8   | 86.2   | 79.7   | 79.7   | 84.8   |        |        |        |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |        | 95.8   | 98.3   | 100.6  | 103.3  | 105.4  | 106.8  | 107.9  | 108.6  | 105.2  | 105.2  | 107.3  |        |        |        |
| PRSD               |        | 100.3  | 112.2  | 113.9  | 116.9  | 118.2  | 119.5  | 120.5  | 121.3  | 118.3  | 118.3  | 119.5  |        |        |        |

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|                    | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) |            |            |            |            |             |             |             |             |             |             |             |             |             |             |             |
|--------------------|-------|---|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                    |       | 50. (1.62)                                | 60. (1.05) | 70. (1.22) | 80. (1.39) | 90. (1.57) | 100. (1.74) | 110. (1.91) | 120. (2.09) | 130. (2.26) | 140. (2.44) | 150. (2.61) | 160. (2.79) | 170. (2.96) | 180. (3.14) | 190. (3.32) | 200. (3.49) |
| SIDELINE 200. FT.  | 50    |   |            |            |            |            |             |             |             |             |             |             |             |             |             |             |             |
| ( 65.96 M)         | 63    |   |            |            |            |            |             |             |             |             |             |             |             |             |             |             |             |
| VEHICLE M-95       | 100   | 49.5                                      | 51.3       | 53.1       | 53.5       | 53.9       | 54.5        | 54.2        | 53.6        | 55.3        | 57.4        | 57.6        |             |             |             |             |             |
| CONFIG 21          | 125   | 50.4                                      | 56.5       | 54.5       | 56.4       | 59.1       | 59.4        | 58.9        | 58.3        | 58.6        | 59.9        | 57.2        |             |             |             |             |             |
| LCC SCHEDULED      | 150   | 53.3                                      | 54.9       | 55.2       | 55.9       | 56.7       | 58.3        | 57.6        | 58.2        | 59.8        | 59.8        | 57.2        |             |             |             |             |             |
| DATE 11/14/74      | 250   | 52.7                                      | 53.9       | 54.9       | 55.9       | 57.4       | 59.3        | 58.2        | 59.8        | 60.1        | 72.5        | 58.2        |             |             |             |             |             |
| RUN 177            | 300   | 56.3                                      | 56.9       | 58.5       | 59.7       | 60.5       | 60.9        | 61.9        | 60.7        | 60.3        | 72.5        | 57.2        |             |             |             |             |             |
| TAPE               | 315   | 56.8                                      | 57.4       | 58.2       | 59.4       | 60.2       | 60.3        | 60.8        | 60.3        | 59.6        | 72.5        | 55.9        |             |             |             |             |             |
| BAR 20.7 HG        | 420   | 57.4                                      | 55.8       | 56.9       | 58.8       | 58.9       | 59.9        | 59.7        | 59.7        | 59.7        | 72.5        | 53.7        |             |             |             |             |             |
| (84220. N/MS)      | 500   | 57.1                                      | 54.4       | 55.0       | 57.8       | 58.3       | 58.0        | 59.3        | 59.1        | 57.9        | 72.5        | 52.4        |             |             |             |             |             |
| TANK 40. DEG F     | 620   | 54.7                                      | 56.1       | 57.4       | 59.1       | 61.8       | 61.5        | 61.9        | 61.8        | 59.7        | 72.5        | 51.9        |             |             |             |             |             |
| (243. DEG K)       | 850   | 54.3                                      | 53.9       | 57.9       | 60.9       | 60.9       | 61.7        | 62.6        | 61.8        | 60.5        | 72.5        | 51.8        |             |             |             |             |             |
| THEY 42. DEG F     | 1050  | 55.3                                      | 56.9       | 59.1       | 60.6       | 62.6       | 63.4        | 63.8        | 64.8        | 61.9        | 72.5        | 49.5        |             |             |             |             |             |
| (1279. DEG K)      | 1250  | 55.6                                      | 58.3       | 60.9       | 62.9       | 64.8       | 65.3        | 65.9        | 65.9        | 62.4        | 72.5        | 48.9        |             |             |             |             |             |
| MACT 4.00 CM/MS    | 1500  | 61.9                                      | 64.4       | 67.4       | 71.0       | 71.8       | 74.6        | 74.4        | 78.8        | 68.1        | 72.5        | 52.2        |             |             |             |             |             |
| (100490. KG/MS)    | 2000  | 59.5                                      | 62.9       | 66.8       | 69.4       | 70.9       | 70.9        | 70.6        | 70.8        | 64.6        | 72.5        | 50.4        |             |             |             |             |             |
| MFA 7942. RPM      | 3150  | 54.1                                      | 63.4       | 66.8       | 68.9       | 71.2       | 71.1        | 71.3        | 71.7        | 65.7        | 72.5        | 50.8        |             |             |             |             |             |
| ( 832. RAD/SEC)    | 4000  | 59.8                                      | 66.4       | 68.5       | 72.2       | 73.9       | 73.9        | 74.3        | 73.8        | 68.6        | 72.5        | 53.5        |             |             |             |             |             |
| MFK 8820. RPM      | 5000  | 57.8                                      | 63.4       | 66.2       | 70.8       | 71.7       | 72.4        | 71.9        | 71.2        | 64.1        | 72.5        | 52.3        |             |             |             |             |             |
| ( 840. RAD/SEC)    | 6300  | 55.8                                      | 62.2       | 65.2       | 68.7       | 71.4       | 71.6        | 73.9        | 70.8        | 63.2        | 72.5        | 52.8        |             |             |             |             |             |
| MFE 8823. RPM      | 8000  | 52.9                                      | 59.2       | 62.6       | 65.6       | 67.5       | 68.7        | 68.7        | 68.4        | 60.4        | 72.5        | 51.4        |             |             |             |             |             |
| ( 824. RAD/SEC)    | 10000 | 51.4                                      | 57.4       | 61.4       | 64.4       | 66.3       | 67.2        | 67.3        | 66.8        | 59.2        | 72.5        | 48.9        |             |             |             |             |             |
| NO. OF BLADES 15   | 12500 | 48.8                                      | 53.8       | 57.3       | 61.3       | 63.1       | 64.3        | 64.4        | 63.5        | 54.3        | 72.5        | 42.3        |             |             |             |             |             |
| FAN TIP SPEED      | 16000 | 48.5                                      | 46.9       | 50.2       | 53.9       | 56.7       | 57.2        | 57.7        | 55.7        | 46.6        | 72.5        | 32.3        |             |             |             |             |             |
| 603. FT/SEC        | 20000 | 34.9                                      | 40.9       | 45.6       | 48.6       | 51.8       | 52.2        | 52.5        | 50.8        | 39.4        | 72.5        | 18.9        |             |             |             |             |             |
|                    | 25000 | 27.9                                      | 32.9       | 37.4       | 41.2       | 43.6       | 44.5        | 44.5        | 40.1        | 29.3        | 72.5        |             |             |             |             |             |             |
|                    | 31500 | 19.4                                      | 21.2       | 24.1       | 26.2       | 28.7       | 28.8        | 28.8        | 25.6        | 12.3        | 72.5        |             |             |             |             |             |             |
|                    | 40000 |   | 3.2        | 9.3        | 13.3       | 14.9       | 14.5        | 11.5        | 3.8         |             |             |             |             |             |             |             |             |
|                    | 50000 |   |            |            |            |            |             |             |             |             |             |             |             |             |             |             |             |
|                    | 63000 |   |            |            |            |            |             |             |             |             |             |             |             |             |             |             |             |
|                    | 80000 |   |            |            |            |            |             |             |             |             |             |             |             |             |             |             |             |
| OVERALL CALCULATED |       | 60.7                                      | 73.3       | 78.9       | 79.1       | 80.7       | 81.8        | 81.5        | 80.6        | 75.9        | 83.2        | 67.3        |             |             |             |             |             |
| PRSD               |       | 82.8                                      | 87.7       | 96.8       | 93.2       | 94.4       | 98.2        | 95.4        | 94.8        | 89.8        | 100.4       | 78.6        |             |             |             |             |             |

AG



PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (50, 54, 6, 76 PERCENT DEL. NON. EAV)

PROC. DATE - MONTH 31 DAY 28 HR. 0.5

ANGLES FROM INLET IN DEGREES (A00 HAZIANG)

|                    | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 160    | 170    | 180    | 190    | 200    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FR...              | (1.62) | (1.19) | (1.36) | (1.53) | (1.71) | (1.90) | (2.08) | (2.24) | (2.42) | (2.60) | (2.78) | (2.96) | (3.14) | (3.32) | (3.50) | (3.68) |
| RACIAL 17. FT.     | 50     | 63     | 80     |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE 1 S. H.    | 100    | 77.7   | 73.5   | 76.4   | 74.9   | 76.3   | 76.7   | 77.2   | 86.6   | 86.3   | 81.3   | 89.0   |        |        |        | 114.0  |
| CONFIG 21          | 125    | 81.2   | 79.6   | 77.4   | 77.3   | 80.3   | 81.0   | 81.4   | 87.1   | 84.1   | 82.8   | 88.8   |        |        |        | 116.5  |
| LJC SCHEMECTAD     | 160    | 82.7   | 78.8   | 77.0   | 77.1   | 78.8   | 78.5   | 80.2   | 89.1   | 84.6   | 84.1   | 88.5   |        |        |        | 118.0  |
| DATE 11/16/74      | 200    | 84.6   | 78.0   | 77.4   | 77.1   | 79.5   | 81.0   | 81.8   | 90.6   | 85.1   | 84.6   | 90.6   |        |        |        | 118.4  |
| RUN 17/6           | 250    | 79.7   | 79.8   | 81.1   | 81.3   | 82.5   | 83.5   | 84.7   | 90.6   | 86.1   | 83.5   | 89.5   |        |        |        | 118.0  |
| TAPE 17/6          | 315    | 82.0   | 79.2   | 81.1   | 81.3   | 81.6   | 82.7   | 83.4   | 91.1   | 85.8   | 85.3   | 88.3   |        |        |        | 118.0  |
| BAR 20.7 MC        | 400    | 79.3   | 78.5   | 78.9   | 79.3   | 81.8   | 81.2   | 82.9   | 87.6   | 84.6   | 83.6   | 88.8   |        |        |        | 117.8  |
| 100220 M/M21       | 530    | 77.0   | 77.3   | 78.4   | 79.1   | 80.0   | 81.5   | 82.7   | 84.4   | 84.6   | 84.6   | 89.5   |        |        |        | 115.8  |
| TAPE 40. TCG F     | 630    | 79.1   | 79.8   | 80.1   | 81.9   | 83.1   | 83.8   | 84.7   | 85.0   | 86.1   | 87.1   | 85.0   |        |        |        | 117.7  |
| 1263. SEC R1       | 630    | 81.3   | 81.3   | 82.6   | 82.9   | 83.3   | 84.0   | 85.9   | 86.9   | 88.0   | 88.1   | 85.8   |        |        |        | 116.8  |
| Y-LET 42. SEC R    | 1000   | 78.1   | 79.0   | 81.4   | 81.9   | 83.8   | 84.0   | 86.1   | 87.1   | 88.0   | 88.0   | 83.8   |        |        |        | 118.0  |
| 1270. SEC R1       | 1250   | 79.1   | 80.3   | 81.6   | 83.4   | 83.6   | 86.0   | 84.2   | 89.1   | 88.4   | 88.8   | 85.1   |        |        |        | 120.3  |
| MACT 4.00 CM/R3    | 1600   | 79.0   | 81.8   | 83.6   | 85.7   | 87.0   | 89.3   | 90.1   | 89.9   | 89.6   | 89.6   | 83.3   |        |        |        | 121.7  |
| 100030 R6/R3       | 2000   | 84.9   | 86.6   | 88.9   | 93.5   | 95.2   | 96.3   | 96.9   | 101.4  | 95.1   | 92.6   | 87.8   |        |        |        | 120.6  |
| MFL 7043. RPM      | 2500   | 83.6   | 86.9   | 89.1   | 92.3   | 94.2   | 94.0   | 95.1   | 95.6   | 92.6   | 91.1   | 88.8   |        |        |        | 120.7  |
| 1 032. RAD/SEC     | 3150   | 83.6   | 87.6   | 89.9   | 92.3   | 94.7   | 95.0   | 96.1   | 97.8   | 93.9   | 92.2   | 87.5   |        |        |        | 127.8  |
| MFK 8221. RPM      | 4000   | 84.8   | 89.9   | 92.6   | 95.0   | 96.7   | 96.3   | 99.0   | 99.8   | 97.1   | 96.1   | 81.7   |        |        |        | 120.4  |
| 1 040. RAD/SEC     | 5000   | 83.9   | 88.8   | 91.3   | 93.3   | 95.9   | 97.5   | 98.0   | 96.2   | 93.5   | 92.6   | 85.0   |        |        |        | 120.8  |
| MFD 8823. RPM      | 6300   | 82.1   | 87.9   | 90.8   | 93.2   | 96.3   | 96.8   | 97.8   | 98.5   | 93.3   | 94.6   | 93.3   |        |        |        | 120.1  |
| 1 024. RAD/SEC     | 8000   | 81.0   | 86.3   | 88.8   | 91.4   | 93.7   | 95.7   | 96.6   | 98.0   | 92.7   | 97.8   | 95.7   |        |        |        | 124.5  |
| NO. OF BLAZES 15   | 10000  | 81.1   | 85.9   | 89.3   | 91.3   | 93.6   | 95.3   | 96.4   | 97.3   | 93.3   | 97.8   | 96.1   |        |        |        | 120.0  |
| FAN TIP SPEED      | 12500  | 81.3   | 85.2   | 88.2   | 90.1   | 93.8   | 94.5   | 96.5   | 97.4   | 92.1   | 96.5   | 100.4  |        |        |        | 120.7  |
| 603. FT/SEC        | 16000  | 77.1   | 81.7   | 83.9   | 87.0   | 89.5   | 92.2   | 93.8   | 95.8   | 89.7   | 95.2   | 100.7  |        |        |        | 127.2  |
| 25000              | 20000  | 77.4   | 81.1   | 84.1   | 86.5   | 89.7   | 91.7   | 94.2   | 95.8   | 90.4   | 96.8   | 101.8  |        |        |        | 127.9  |
| 31500              | 25000  | 77.5   | 80.5   | 83.3   | 85.9   | 88.6   | 90.9   | 93.4   | 94.4   | 90.4   | 96.4   | 98.7   |        |        |        | 127.3  |
| 40000              | 31500  | 77.1   | 79.5   | 81.9   | 84.8   | 87.2   | 89.7   | 91.5   | 92.3   | 89.2   | 94.4   | 97.2   |        |        |        | 126.8  |
| 50000              | 40000  | 77.2   | 77.8   | 80.2   | 82.5   | 84.3   | 87.2   | 89.1   | 89.2   | 86.4   | 92.3   | 95.8   |        |        |        | 128.0  |
| 63000              | 50000  | 74.7   | 77.6   | 80.8   | 79.8   | 82.3   | 84.4   | 86.7   | 85.0   | 83.8   | 93.8   | 93.4   |        |        |        | 120.8  |
| 80000              | 63000  | 80.5   | 76.9   | 80.8   | 77.8   | 79.4   | 80.9   | 82.3   | 81.1   | 80.3   | 90.5   | 92.9   |        |        |        | 120.3  |
| 100000             | 80000  | 82.8   | 78.1   | 83.6   | 78.7   | 79.4   | 80.3   | 81.3   | 82.8   | 79.7   | 100.9  | 87.5   |        |        |        | 120.8  |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED | 90.8   | 90.8   | 102.7  | 103.3  | 105.4  | 107.0  | 108.0  | 109.3  | 105.8  | 100.3  | 109.8  |        |        |        |        | 142.8  |
| PM10               | 100.1  | 112.1  | 115.9  | 116.6  | 116.1  | 119.0  | 120.3  | 121.7  | 116.4  | 110.7  | 119.3  |        |        |        |        |        |

MODEL SOUND PRESSURE LEVELS (50. DFC, P. 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.              | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0. | 0. | 0. | 0. | 0. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|
|                    | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | 0.   | 0. | 0. | 0. | 0. | 0. |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
| ( 60.96 M)         | 63     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
| VEHICLE R=55       | 100    | 54.7   | 51.3   | 54.6   | 53.3   | 54.6   | 54.7   | 54.5   | 62.9   | 55.0   | 53.7   | 57.6 |    |    |    |    |    |
| CONFIG 21          | 125    | 58.1   | 55.7   | 55.5   | 55.7   | 58.6   | 58.9   | 58.6   | 63.3   | 58.6   | 55.0   | 57.2 |    |    |    |    |    |
| LCC SCHEMECTADY    | 160    | 57.5   | 54.4   | 55.7   | 55.4   | 56.2   | 56.3   | 57.3   | 65.2   | 59.0   | 56.1   | 56.7 |    |    |    |    |    |
| DATE 11/14/74      | 200    | 60.7   | 53.5   | 55.4   | 55.3   | 57.6   | 58.7   | 59.0   | 66.5   | 59.4   | 56.7   | 56.7 |    |    |    |    |    |
| RUN 17/8           | 250    | 56.3   | 57.2   | 59.0   | 59.4   | 60.5   | 61.1   | 61.6   | 66.4   | 60.3   | 55.3   | 57.2 |    |    |    |    |    |
| TAPE               | 315    | 55.5   | 57.1   | 59.0   | 59.4   | 59.7   | 60.3   | 60.3   | 66.8   | 59.9   | 56.5   | 55.7 |    |    |    |    |    |
| BAR 29.7 HG        | 400    | 55.7   | 55.8   | 57.6   | 57.3   | 58.9   | 58.7   | 59.7   | 63.2   | 58.5   | 56.9   | 53.9 |    |    |    |    |    |
| (100220. N/M2)     | 500    | 53.3   | 54.4   | 56.0   | 57.0   | 57.8   | 58.9   | 59.3   | 59.9   | 58.4   | 56.8   | 52.4 |    |    |    |    |    |
| TANK 49. DEG F     | 630    | 55.2   | 56.1   | 57.7   | 59.6   | 60.7   | 61.0   | 61.2   | 61.0   | 59.7   | 58.8   | 52.1 |    |    |    |    |    |
| (283. DEG K)       | 800    | 57.4   | 58.2   | 60.1   | 60.5   | 60.9   | 61.9   | 62.3   | 62.1   | 60.3   | 58.8   | 52.0 |    |    |    |    |    |
| TSET 42. DEG F     | 1000   | 54.3   | 55.8   | 58.7   | 59.4   | 61.2   | 61.8   | 62.4   | 62.2   | 59.8   | 61.1   | 49.6 |    |    |    |    |    |
| (279. DEG K)       | 1250   | 54.5   | 56.9   | 58.8   | 60.8   | 62.9   | 63.4   | 64.3   | 64.6   | 61.4   | 61.1   | 50.5 |    |    |    |    |    |
| NACT 4.98 CM/M3    | 1600   | 55.4   | 59.3   | 60.6   | 62.9   | 65.0   | 66.0   | 66.1   | 64.5   | 62.4   | 59.5   | 48.2 |    |    |    |    |    |
| (.00498 KG/M3)     | 2000   | 62.2   | 64.9   | 75.7   | 70.5   | 72.1   | 74.9   | 74.6   | 75.8   | 67.6   | 62.1   | 52.2 |    |    |    |    |    |
| NFA 7943. RPM      | 2500   | 58.7   | 62.9   | 65.8   | 69.2   | 70.9   | 70.9   | 70.6   | 69.8   | 64.8   | 60.3   | 50.7 |    |    |    |    |    |
| ( 832. RAD/SEC)    | 3150   | 58.4   | 63.4   | 66.2   | 68.9   | 71.2   | 71.6   | 71.3   | 71.7   | 65.7   | 60.8   | 50.6 |    |    |    |    |    |
| NPK 8021. RPM      | 4000   | 59.1   | 66.2   | 68.5   | 72.0   | 72.7   | 73.9   | 73.8   | 73.1   | 68.2   | 57.9   | 53.5 |    |    |    |    |    |
| ( 840. RAD/SEC)    | 5000   | 57.0   | 63.6   | 66.9   | 69.2   | 71.7   | 72.9   | 72.4   | 71.2   | 64.3   | 59.9   | 52.8 |    |    |    |    |    |
| NFD 8823. RPM      | 6300   | 55.3   | 62.2   | 64.9   | 68.4   | 71.4   | 71.4   | 71.4   | 70.6   | 63.0   | 60.4   | 52.3 |    |    |    |    |    |
| ( 924. RAD/SEC)    | 8000   | 52.9   | 59.5   | 62.6   | 65.6   | 67.8   | 69.2   | 69.0   | 68.7   | 60.7   | 61.5   | 51.4 |    |    |    |    |    |
| NO. OF BLADES 15   | 10000  | 51.1   | 57.4   | 61.8   | 63.9   | 66.1   | 67.2   | 67.1   | 66.0   | 59.8   | 58.2   | 49.4 |    |    |    |    |    |
| FAN TIP SPEED      | 12500  | 48.6   | 54.3   | 58.3   | 60.5   | 63.3   | 64.1   | 64.7   | 63.3   | 54.3   | 52.7   | 45.0 |    |    |    |    |    |
| 693. FT/SEC        | 16000  | 46.3   | 46.9   | 50.2   | 53.9   | 56.2   | 58.0   | 57.7   | 56.2   | 46.3   | 44.1   | 34.5 |    |    |    |    |    |
|                    | 20000  | 34.9   | 41.1   | 45.6   | 48.6   | 51.5   | 52.4   | 52.8   | 50.0   | 39.7   | 35.3   | 28.5 |    |    |    |    |    |
|                    | 25000  | 26.9   | 33.2   | 37.9   | 41.2   | 43.6   | 44.8   | 44.2   | 40.6   | 29.1   | 28.1   |      |    |    |    |    |    |
|                    | 31500  | 14.7   | 21.4   | 26.3   | 30.2   | 32.2   | 32.8   | 31.0   | 25.6   | 12.3   |        |      |    |    |    |    |    |
|                    | 40000  |        | 3.7    | 9.5    | 13.1   | 14.4   | 14.8   | 11.7   | 3.3    |        |        |      |    |    |    |    |    |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
| OVERALL CALCULATED |        | 70.4   | 73.5   | 76.6   | 78.8   | 80.7   | 81.7   | 81.6   | 81.9   | 75.8   | 72.3   | 67.3 |    |    |    |    |    |
| PNDB               |        | 82.8   | 87.6   | 92.4   | 92.9   | 94.3   | 95.3   | 95.2   | 95.2   | 89.9   | 84.9   | 76.0 |    |    |    |    |    |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL 5043 PRESSURE LEVELS (50. DEG. F. TO 70 PERCENT DEL. NUM. 247)  
 PROC. DATE = MONTH 11 DAY 25 YR. 85  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                    | FREQ. | 58.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 160.  | 170.  | 180.  | PAL   |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
|                    |       | (1.02) | (1.10) | (1.24) | (1.53) | (1.71) | (1.80) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (3.0) | (3.0) | (3.0) | (3.0) |
| RADIAL ( 5. M )    | 50    |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |
|                    | 63    |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |
|                    | 80    |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |
| VEHICLE R-55       | 100   | 70.3   | 73.6   | 76.7   | 77.9   | 78.3   | 76.3   | 73.7   | 68.7   | 71.7   | 75.7   | 77.6   |       |       |       | 109.5 |
| CONFIG 21          | 125   | 68.1   | 69.6   | 71.2   | 67.9   | 71.3   | 69.0   | 68.7   | 70.2   | 72.9   | 73.2   | 75.6   |       |       |       | 104.7 |
| LOC SCHEMECTADY    | 160   | 65.3   | 66.6   | 66.7   | 66.9   | 67.8   | 68.0   | 69.9   | 70.8   | 72.9   | 75.7   | 76.6   |       |       |       | 104.4 |
| DATE 11/14/74      | 200   | 68.3   | 65.6   | 68.9   | 67.9   | 69.5   | 71.0   | 72.2   | 74.2   | 75.2   | 77.2   | 78.1   |       |       |       | 106.2 |
| RUN 1779           | 250   | 68.3   | 68.3   | 69.8   | 70.9   | 71.5   | 72.0   | 72.9   | 73.7   | 74.7   | 75.7   | 76.3   |       |       |       | 106.4 |
| TAPE               | 315   | 69.8   | 69.6   | 70.4   | 71.6   | 72.0   | 72.5   | 72.8   | 73.7   | 74.7   | 76.4   | 76.3   |       |       |       | 106.8 |
| BAR 29.7 HG        | 400   | 68.3   | 68.6   | 69.4   | 70.4   | 71.3   | 72.3   | 73.2   | 73.9   | 74.7   | 75.2   | 74.3   |       |       |       | 106.2 |
| (00228. H/M2)      | 500   | 67.3   | 67.8   | 69.4   | 70.4   | 71.6   | 72.0   | 73.2   | 73.9   | 74.2   | 74.4   | 73.8   |       |       |       | 105.9 |
| TANG 49. DEG F     | 630   | 69.6   | 69.6   | 70.4   | 72.4   | 74.1   | 75.1   | 75.9   | 76.4   | 77.2   | 77.2   | 75.1   |       |       |       | 108.4 |
| (203. DEG F)       | 800   | 71.6   | 71.1   | 72.4   | 73.0   | 75.3   | 76.1   | 77.9   | 78.4   | 78.9   | 77.4   | 75.6   |       |       |       | 109.9 |
| TACT 43. DEG F     | 1000  | 69.1   | 70.6   | 72.4   | 73.4   | 75.3   | 77.0   | 78.9   | 79.4   | 79.9   | 77.7   | 73.1   |       |       |       | 110.4 |
| (279. DEG F)       | 1250  | 73.6   | 75.9   | 76.7   | 74.7   | 81.1   | 82.3   | 84.2   | 85.2   | 86.7   | 84.5   | 78.3   |       |       |       | 116.2 |
| (60554 KG/M3)      | 1600  | 73.1   | 75.4   | 77.7   | 79.5   | 81.1   | 82.9   | 84.4   | 85.4   | 86.2   | 83.0   | 76.3   |       |       |       | 110.1 |
| NFA 5367. RPM      | 2000  | 74.4   | 76.7   | 77.7   | 80.6   | 83.4   | 84.9   | 85.4   | 84.7   | 83.7   | 80.5   | 76.8   |       |       |       | 114.4 |
| ( 583. RAD/SEC)    | 2500  | 75.9   | 79.2   | 80.4   | 84.3   | 86.7   | 87.9   | 88.9   | 89.4   | 89.4   | 85.3   | 80.6   |       |       |       | 123.3 |
| ( 589. RAD/SEC)    | 3150  | 75.4   | 78.7   | 80.4   | 83.6   | 86.7   | 87.1   | 88.9   | 88.9   | 90.4   | 84.3   | 80.8   |       |       |       | 128.2 |
| ( 924. RAD/SEC)    | 4000  | 74.1   | 78.1   | 80.1   | 83.9   | 86.7   | 88.1   | 89.0   | 90.0   | 89.6   | 84.0   | 79.7   |       |       |       | 126.4 |
| NFA 5621. RPM      | 5000  | 72.8   | 77.4   | 79.5   | 82.4   | 85.4   | 86.8   | 87.7   | 88.3   | 88.6   | 82.8   | 80.2   |       |       |       | 116.2 |
| ( 589. RAD/SEC)    | 6300  | 71.6   | 74.9   | 77.7   | 81.4   | 83.8   | 85.0   | 86.0   | 87.8   | 87.3   | 81.4   | 80.5   |       |       |       | 117.9 |
| NFA 8823. RPM      | 8000  | 69.7   | 73.6   | 76.3   | 79.9   | 82.4   | 84.2   | 85.0   | 86.5   | 86.7   | 79.9   | 81.9   |       |       |       | 117.0 |
| ( 924. RAD/SEC)    | 10000 | 69.3   | 72.2   | 75.3   | 79.3   | 81.9   | 82.8   | 85.1   | 86.3   | 86.9   | 80.9   | 85.1   |       |       |       | 117.0 |
| NFA 12530. RPM     | 12500 | 69.2   | 71.1   | 73.4   | 78.3   | 80.7   | 83.5   | 84.9   | 86.4   | 85.6   | 79.1   | 86.6   |       |       |       | 117.0 |
| ( 924. RAD/SEC)    | 16000 | 65.8   | 68.1   | 70.3   | 74.5   | 77.3   | 79.9   | 82.3   | 84.5   | 83.4   | 76.7   | 67.9   |       |       |       | 115.4 |
| NFA 25000. RPM     | 20000 | 65.8   | 67.3   | 69.8   | 73.9   | 76.6   | 78.6   | 81.5   | 84.1   | 83.6   | 76.8   | 66.7   |       |       |       | 115.7 |
| ( 924. RAD/SEC)    | 25000 | 66.6   | 66.6   | 68.5   | 72.2   | 74.9   | 77.0   | 79.0   | 80.8   | 81.6   | 74.7   | 69.6   |       |       |       | 115.2 |
| NFA 31500. RPM     | 31500 | 66.4   | 66.3   | 67.7   | 71.8   | 74.5   | 76.7   | 78.3   | 79.8   | 81.3   | 74.1   | 65.5   |       |       |       | 114.2 |
| ( 924. RAD/SEC)    | 40000 | 67.0   | 65.6   | 67.3   | 69.5   | 72.1   | 74.3   | 76.4   | 77.3   | 77.8   | 71.9   | 61.1   |       |       |       | 112.7 |
| NFA 50000. RPM     | 50000 | 69.8   | 66.3   | 68.7   | 67.8   | 69.3   | 71.4   | 74.1   | 73.6   | 74.2   | 70.5   | 60.3   |       |       |       | 112.5 |
| ( 924. RAD/SEC)    | 63000 | 71.4   | 67.8   | 70.2   | 68.0   | 69.3   | 69.8   | 71.9   | 69.2   | 70.5   | 69.5   | 79.7   |       |       |       | 114.8 |
| NFA 80000. RPM     | 80000 | 73.7   | 69.8   | 71.7   | 69.3   | 69.9   | 70.9   | 71.6   | 73.8   | 78.4   | 71.1   | 73.1   |       |       |       | 110.8 |
| OVERALL MEASURED   |       |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |
| OVERALL CALCULATED |       | 85.8   | 87.9   | 89.8   | 92.6   | 95.2   | 96.5   | 97.8   | 98.7   | 99.8   | 94.4   | 97.8   |       |       |       | 130.3 |
| PNCB               |       | 98.3   | 101.1  | 102.9  | 105.9  | 108.4  | 109.7  | 110.7  | 111.5  | 111.9  | 107.3  | 104.7  |       |       |       |       |

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.              | 50.    | 55.    | 60.    | 65.    | 70.    | 75.    | 80.    | 85.    | 90.    | 95.    | 100.   | 105. | 110. | 115. | 120. | 125. | 130. | 135. | 140. | 145. | 150. | 0. | 0. | 0. | 0. | 0. | 0. |  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|--|
|                    | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | 0.   | 110. | 110. | 110. | 110. | 110. | 110. | 110. | 110. | 0.   | 0. | 0. | 0. | 0. | 0. |    |  |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| ( 60.96 M)         | 63     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| VEHICLE R=55       | 100    | 47.2   | 51.3   | 54.9   | 56.3   | 56.4   | 54.2   | 51.0   | 44.9   | 46.3   | 46.0   | 46.2 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| CONFIG 21          | 125    | 45.1   | 46.3   | 49.3   | 46.2   | 49.6   | 46.9   | 45.9   | 46.3   | 47.5   | 45.4   | 44.0 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| LOC SCHENECTADY    | 160    | 42.6   | 44.2   | 44.8   | 45.2   | 46.0   | 45.8   | 47.1   | 46.9   | 47.3   | 47.7   | 44.7 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| DATE 11/14/74      | 230    | 43.0   | 43.1   | 44.9   | 46.1   | 47.6   | 48.7   | 49.2   | 50.1   | 49.5   | 49.1   | 46.0 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| RUN 17/9           | 250    | 44.9   | 45.7   | 47.8   | 49.0   | 49.6   | 49.7   | 49.9   | 49.5   | 48.8   | 47.4   | 44.0 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| TAPE               | 315    | 45.5   | 46.9   | 48.2   | 49.7   | 50.9   | 50.1   | 49.8   | 49.4   | 48.7   | 48.0   | 43.7 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| BAR 29.7 HG        | 400    | 44.7   | 45.8   | 47.2   | 48.3   | 49.7   | 49.8   | 49.9   | 49.5   | 48.6   | 46.6   | 41.5 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| (00220.4/M2)       | 500    | 43.6   | 45.0   | 46.1   | 46.3   | 49.3   | 49.4   | 49.8   | 49.4   | 47.9   | 45.6   | 40.7 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| TAMB 49. DEG F     | 630    | 44.8   | 46.6   | 48.0   | 50.2   | 51.7   | 52.3   | 52.5   | 51.8   | 50.8   | 48.2   | 41.6 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| (283. DEG K)       | 800    | 47.6   | 48.0   | 49.9   | 51.6   | 52.9   | 53.2   | 54.3   | 53.6   | 52.4   | 48.2   | 41.8 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| T&EY 43. DEG F     | 1000   | 45.0   | 47.4   | 49.7   | 50.9   | 52.7   | 54.6   | 55.2   | 54.5   | 53.2   | 48.2   | 38.9 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| (279. DEG K)       | 1250   | 49.4   | 52.3   | 53.8   | 56.1   | 58.4   | 59.2   | 60.3   | 60.0   | 59.7   | 54.7   | 43.8 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| MACT 5.54 CM/M3    | 1600   | 48.7   | 51.8   | 54.7   | 56.7   | 58.3   | 59.6   | 60.3   | 60.1   | 59.0   | 52.9   | 41.3 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| (.00554 KG/M3)     | 2000   | 49.7   | 52.9   | 54.5   | 57.6   | 60.3   | 61.4   | 61.1   | 59.1   | 56.2   | 50.0   | 41.2 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| NFA 5567. RPM      | 2500   | 51.0   | 55.2   | 57.0   | 61.2   | 63.4   | 64.2   | 64.4   | 63.6   | 61.7   | 54.4   | 44.4 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| ( 583. RAD/SEC)    | 3150   | 58.2   | 54.4   | 58.7   | 60.2   | 63.2   | 63.2   | 64.0   | 62.7   | 62.2   | 52.9   | 43.8 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| NPK 5621. RPM      | 4000   | 48.4   | 53.5   | 56.0   | 60.0   | 62.7   | 63.7   | 63.8   | 63.3   | 60.8   | 51.7   | 41.5 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| ( 589. RAD/SEC)    | 5000   | 46.8   | 52.4   | 55.2   | 58.5   | 61.2   | 62.1   | 62.2   | 61.4   | 59.4   | 50.2   | 41.3 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| NFD 8823. RPM      | 6300   | 44.8   | 49.2   | 52.7   | 56.7   | 58.9   | 59.0   | 59.6   | 59.9   | 57.0   | 47.3   | 39.5 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| ( 924. RAD/SEC)    | 8000   | 41.6   | 46.7   | 50.1   | 54.1   | 56.5   | 57.7   | 57.4   | 57.2   | 54.7   | 43.5   | 37.6 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| NO. OF BLADES 15   | 10000  | 39.3   | 43.7   | 47.6   | 51.7   | 54.3   | 54.7   | 55.8   | 55.0   | 52.5   | 41.5   | 36.3 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| FAN TIP SPEED      | 12500  | 36.7   | 40.3   | 43.5   | 46.8   | 51.0   | 53.0   | 53.1   | 52.2   | 47.8   | 35.3   | 31.3 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| 486. FT/SEC        | 16000  | 28.9   | 33.3   | 36.7   | 41.3   | 44.6   | 45.7   | 46.3   | 45.6   | 40.0   | 25.6   | 21.7 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
|                    | 20000  | 23.3   | 27.3   | 31.3   | 36.0   | 37.9   | 39.4   | 40.1   | 39.1   | 32.9   | 16.1   | 8.3  |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
|                    | 25000  | 16.8   | 19.3   | 23.0   | 27.6   | 29.9   | 30.6   | 29.8   | 27.0   | 20.2   | 0.3    |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
|                    | 31500  | 4.0    | 8.2    | 12.2   | 17.2   | 19.5   | 19.8   | 17.8   | 13.1   | 4.4    |        |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
|                    | 40000  |        |        |        | 0.2    | 2.2    | 1.8    |        |        |        |        |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| OVERALL CALCULATED |        | 60.1   | 63.5   | 65.8   | 68.9   | 71.2   | 71.9   | 72.1   | 71.4   | 69.7   | 63.1   | 56.0 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |
| PNJB               |        | 72.9   | 76.8   | 79.1   | 82.3   | 84.8   | 85.4   | 85.7   | 85.8   | 83.6   | 76.8   | 67.4 |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |  |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MOTEL SOUND PRESSURE LEVELS (59. DFG, F<sub>0</sub> 70 PERCENT SEL. NUM. EAST)

PRC. DATE = NOV 12 DAY 10 HR. 15.3

ANGLES FROM INLET TO MICROPS (AND RADIANTS)

| PRC. #                    | (1.32) | (1.17) | (1.33) | (1.57) | (1.71) | (1.68) | (2.04) | (2.24) | (2.42) | (2.23) | (2.79) | (0)   | (0) | (0) | (0) | (0) | PWL   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|-----|-------|
| RADIAL 17. FT.            |        |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |       |
| VEHICLE 5. M              | 100    | 66.0   | 72.3   | 75.7   | 75.4   | 74.3   | 73.3   | 72.2   | 69.2   | 70.8   | 74.8   | 77.6  |     |     |     |     | 107.0 |
| VEHICLE 5. M              | 125    | 67.8   | 68.4   | 69.3   | 68.5   | 70.5   | 67.3   | 68.9   | 70.2   | 71.4   | 73.4   | 76.3  |     |     |     |     | 104.3 |
| COIL 22                   | 160    | 65.3   | 66.8   | 66.7   | 67.1   | 67.8   | 67.5   | 69.4   | 71.4   | 72.9   | 75.2   | 78.1  |     |     |     |     | 104.1 |
| LOC SCHEMECTADY           | 200    | 65.3   | 66.6   | 67.4   | 68.9   | 70.3   | 71.5   | 72.7   | 74.4   | 75.2   | 77.2   | 78.6  |     |     |     |     | 106.5 |
| DATE 12/13/74             | 250    | 67.5   | 68.6   | 69.7   | 71.1   | 71.5   | 72.3   | 73.2   | 73.9   | 74.4   | 76.2   | 76.8  |     |     |     |     | 106.5 |
| ROX 40/2                  | 315    | 69.3   | 69.3   | 70.4   | 72.1   | 72.3   | 72.5   | 73.4   | 74.4   | 74.7   | 76.4   | 76.8  |     |     |     |     | 106.9 |
| TYPE 430                  | 330    | 67.1   | 64.8   | 68.7   | 70.3   | 71.5   | 72.5   | 72.9   | 74.4   | 74.7   | 75.2   | 74.6  |     |     |     |     | 106.3 |
| BAR 29.9 MG               | 500    | 65.8   | 67.8   | 68.2   | 70.2   | 71.3   | 72.0   | 73.2   | 74.2   | 73.9   | 74.7   | 73.3  |     |     |     |     | 105.7 |
| 101000 K/PSI              | 630    | 64.1   | 70.3   | 71.4   | 73.2   | 74.3   | 75.3   | 74.2   | 76.9   | 77.4   | 77.5   | 74.8  |     |     |     |     | 108.7 |
| TAMB 47. DEG F            | 800    | 71.8   | 72.1   | 73.9   | 74.2   | 75.3   | 76.3   | 76.2   | 76.9   | 79.7   | 78.2   | 75.0  |     |     |     |     | 110.4 |
| 1291. DEG F               | 1000   | 68.7   | 71.1   | 73.2   | 73.9   | 75.3   | 76.6   | 77.9   | 79.7   | 80.2   | 78.4   | 74.1  |     |     |     |     | 110.4 |
| 145. DEG F                | 1250   | 72.6   | 75.6   | 76.9   | 79.2   | 80.9   | 83.3   | 85.4   | 85.9   | 86.9   | 84.5   | 79.1  |     |     |     |     | 110.6 |
| 1280. DEG F               | 1500   | 70.9   | 74.4   | 76.9   | 80.8   | 81.4   | 83.9   | 84.7   | 85.7   | 85.7   | 85.9   | 74.1  |     |     |     |     | 116.1 |
| NACT 7.26 CM/PS           | 2000   | 71.4   | 75.4   | 74.2   | 80.2   | 83.9   | 84.9   | 85.4   | 85.1   | 83.9   | 81.2   | 78.1  |     |     |     |     | 116.0 |
| 106726 CM/PS              | 2500   | 74.1   | 78.9   | 81.1   | 84.8   | 86.4   | 87.6   | 89.4   | 88.9   | 90.2   | 84.5   | 80.1  |     |     |     |     | 120.3 |
| NFA 5516. RPP             | 3150   | 73.1   | 78.4   | 80.3   | 84.1   | 88.7   | 87.3   | 88.6   | 89.1   | 90.2   | 84.2   | 79.8  |     |     |     |     | 120.1 |
| 1578. RPS/SEC             | 4000   | 72.3   | 74.3   | 60.4   | 84.5   | 86.1   | 87.5   | 89.2   | 90.5   | 90.1   | 84.2   | 79.5  |     |     |     |     | 120.5 |
| NFK 5501. RPP             | 5000   | 72.5   | 74.0   | 79.2   | 82.8   | 85.3   | 86.5   | 87.7   | 88.4   | 88.5   | 82.6   | 77.1  |     |     |     |     | 119.0 |
| 1584. RPS/SEC             | 6300   | 69.5   | 75.1   | 77.6   | 81.9   | 83.7   | 84.9   | 86.8   | 88.0   | 87.8   | 81.8   | 76.7  |     |     |     |     | 118.0 |
| NFD 8823. RPP             | 8000   | 67.6   | 73.5   | 77.1   | 80.6   | 82.1   | 83.6   | 85.2   | 86.7   | 86.9   | 81.9   | 75.0  |     |     |     |     | 116.9 |
| 1924. RPS/SEC             | 10000  | 56.9   | 72.0   | 75.4   | 79.8   | 81.1   | 83.4   | 85.4   | 86.6   | 86.4   | 81.2   | 75.7  |     |     |     |     | 116.8 |
| NO. OF BLADES 15          | 12500  | 47.0   | 70.4   | 73.9   | 79.8   | 81.2   | 82.0   | 84.2   | 85.2   | 84.9   | 79.4   | 73.9  |     |     |     |     | 115.7 |
| 16000                     | 16000  | 63.7   | 67.8   | 70.5   | 80.2   | 77.1   | 79.6   | 81.5   | 84.4   | 82.6   | 76.4   | 72.3  |     |     |     |     | 114.3 |
| PAN TIP SPEED 482. FT/SEC | 20000  | 63.6   | 68.6   | 69.6   | 80.6   | 75.9   | 78.0   | 80.4   | 84.0   | 82.8   | 76.4   | 71.3  |     |     |     |     | 114.1 |
| 24000                     | 24000  | 64.1   | 68.4   | 68.5   | 80.8   | 74.2   | 74.3   | 78.6   | 81.6   | 79.8   | 73.7   | 69.1  |     |     |     |     | 113.7 |
| 31500                     | 31500  | 63.3   | 65.4   | 67.1   | 81.3   | 73.7   | 75.4   | 77.2   | 80.0   | 79.0   | 73.3   | 67.5  |     |     |     |     | 113.4 |
| 40000                     | 40000  | 64.6   | 64.9   | 65.8   | 79.4   | 73.9   | 73.1   | 75.3   | 76.1   | 78.6   | 71.0   | 64.4  |     |     |     |     | 112.4 |
| 50000                     | 50000  | 56.9   | 66.1   | 67.3   | 79.7   | 68.8   | 71.5   | 73.0   | 72.9   | 72.6   | 69.0   | 65.2  |     |     |     |     | 113.1 |
| 63000                     | 63000  | 69.6   | 67.9   | 69.1   | 71.8   | 69.4   | 70.4   | 71.3   | 70.6   | 69.0   | 69.0   | 67.1  |     |     |     |     | 112.0 |
| 80000                     | 80000  | 72.6   | 69.3   | 71.9   | 70.9   | 70.1   | 71.1   | 71.5   | 71.2   | 70.0   | 71.0   | 70.0  |     |     |     |     | 117.0 |
| OVERALL MEASURED          |        |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |       |
| OVERALL CALCULATED        |        | 84.1   | 87.6   | 90.0   | 94.4   | 95.0   | 98.4   | 97.9   | 98.8   | 98.9   | 94.3   | 98.8  |     |     |     |     | 128.0 |
| PMP                       |        | 76.3   | 100.9  | 103.2  | 106.5  | 108.3  | 109.4  | 110.9  | 111.9  | 111.9  | 107.3  | 103.3 |     |     |     |     |       |

|                    | 5%     | 6%     | 7%     | 8%     | 9%     | 10%    | 11%    | 12%    | 13%    | 14%    | 15%    | 0.   | 0. | 0. | 0. | 0. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|
| PRC.               | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | 0.   | 0. | 0. | 0. | 0. |
| SC                 | 63     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |
| SIZE, IAC 200. FT. | 60     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |
| ( 60-66 H )        | 100    | 43.6   | 50.1   | 53.9   | 55.5   | 52.0   | 51.2   | 49.5   | 45.4   | 45.6   | 47.3   | 46.2 |    |    |    |    |
| VEHICLE R-95       | 145    | 44.6   | 44.5   | 44.1   | 47.0   | 49.9   | 45.2   | 46.2   | 46.3   | 44.7   | 45.0   | 44.7 |    |    |    |    |
| CONFIG 22          | 160    | 42.1   | 44.4   | 44.3   | 45.4   | 46.7   | 45.3   | 46.6   | 47.4   | 47.3   | 47.2   | 44.2 |    |    |    |    |
| LCC SCHEMECTADY    | 230    | 42.6   | 44.1   | 45.4   | 47.1   | 48.4   | 49.2   | 49.7   | 50.3   | 49.5   | 49.1   | 46.5 |    |    |    |    |
| DATE 12/13/74      | 250    | 44.1   | 46.2   | 47.6   | 49.2   | 49.5   | 49.9   | 50.1   | 49.7   | 48.4   | 47.9   | 44.5 |    |    |    |    |
| RUN 40/2           | 315    | 44.3   | 46.7   | 48.2   | 50.2   | 50.2   | 50.1   | 50.3   | 50.1   | 48.7   | 44.0   | 44.2 |    |    |    |    |
| TYPE               | 400    | 43.4   | 46.1   | 47.4   | 48.4   | 49.4   | 49.0   | 49.7   | 50.0   | 49.6   | 46.6   | 41.7 |    |    |    |    |
| BAR 29.9 MG        | 500    | 42.1   | 45.3   | 45.4   | 48.0   | 49.1   | 49.4   | 49.4   | 49.7   | 47.7   | 45.9   | 40.2 |    |    |    |    |
| ( 101000. 1/1/2 )  | 630    | 44.3   | 47.4   | 49.3   | 50.9   | 52.0   | 52.6   | 52.7   | 52.3   | 51.0   | 48.4   | 41.4 |    |    |    |    |
| TANK 47. DEG F     | 800    | 47.6   | 49.0   | 51.4   | 51.4   | 52.0   | 53.5   | 54.6   | 55.1   | 52.6   | 44.9   | 41.6 |    |    |    |    |
| ( 241. DEG W )     | 1000   | 44.7   | 47.9   | 50.3   | 51.4   | 52.7   | 53.6   | 54.2   | 54.7   | 53.4   | 48.9   | 39.9 |    |    |    |    |
| THEY 45. DEG F     | 1250   | 43.4   | 52.2   | 54.1   | 54.6   | 59.1   | 60.2   | 61.5   | 60.8   | 60.0   | 54.7   | 44.5 |    |    |    |    |
| ( 280. DEG W )     | 1600   | 46.4   | 51.8   | 53.9   | 54.2   | 58.5   | 60.6   | 60.3   | 60.3   | 58.5   | 51.9   | 41.0 |    |    |    |    |
| NACT 7.26 CM/MS    | 2000   | 46.7   | 51.6   | 55.0   | 59.1   | 60.8   | 61.4   | 61.1   | 59.6   | 54.4   | 50.7   | 40.5 |    |    |    |    |
| ( 1060726 CM/MS )  | 2500   | 49.2   | 59.0   | 57.8   | 61.7   | 63.2   | 63.9   | 64.9   | 63.1   | 62.4   | 53.7   | 43.9 |    |    |    |    |
| NFA 5510. RPM      | 3150   | 47.9   | 54.2   | 56.7   | 60.7   | 63.1   | 63.4   | 63.8   | 62.9   | 62.0   | 52.8   | 42.0 |    |    |    |    |
| ( 570. RAD/SEC )   | 4000   | 46.6   | 53.7   | 56.7   | 60.7   | 62.2   | 63.1   | 64.0   | 63.8   | 61.2   | 51.9   | 41.2 |    |    |    |    |
| NFK 5501. RPM      | 5000   | 44.5   | 51.1   | 54.9   | 57.7   | 61.2   | 61.8   | 62.1   | 61.4   | 59.3   | 49.9   | 38.2 |    |    |    |    |
| ( 584. RAD/SEC )   | 6300   | 42.7   | 49.4   | 52.6   | 57.1   | 58.8   | 59.6   | 60.8   | 60.8   | 57.2   | 47.7   | 35.7 |    |    |    |    |
| NFD 8R23. RPM      | 8000   | 39.5   | 46.6   | 51.0   | 54.7   | 56.1   | 57.0   | 57.6   | 57.3   | 54.9   | 44.7   | 30.0 |    |    |    |    |
| ( 924. RAD/SEC )   | 10000  | 36.9   | 43.5   | 47.7   | 52.5   | 53.6   | 55.3   | 56.1   | 55.3   | 52.1   | 41.9   | 26.9 |    |    |    |    |
| NO. OF BLADES 15   | 12500  | 34.5   | 39.5   | 44.0   | 50.3   | 50.5   | 51.6   | 52.4   | 51.0   | 47.1   | 35.6   | 18.5 |    |    |    |    |
| FAN TIP SPEED      | 16000  | 26.9   | 33.0   | 36.9   | 47.3   | 43.8   | 45.4   | 45.6   | 45.6   | 39.2   | 29.3   | 6.2  |    |    |    |    |
| 482. FT/SEC        | 20000  | 21.1   | 26.7   | 31.2   | 42.7   | 37.8   | 38.7   | 39.8   | 39.8   | 31.3   | 19.7   |      |    |    |    |    |
|                    | 25000  | 13.5   | 19.1   | 22.6   | 34.1   | 29.2   | 29.9   | 28.9   | 27.8   | 18.5   |        |      |    |    |    |    |
|                    | 31500  | 0.9    | 7.4    | 11.6   | 26.7   | 18.7   | 18.5   | 16.7   | 13.3   | 2.1    |        |      |    |    |    |    |
|                    | 40000  |        |        |        | 10.0   | 1.0    | 0.7    |        |        |        |        |      |    |    |    |    |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |
| OVERALL CALCULATED |        | 58.5   | 63.2   | 66.0   | 69.4   | 71.0   | 71.8   | 72.3   | 71.8   | 69.9   | 63.0   | 58.0 |    |    |    |    |
| PNCR               |        | 71.1   | 76.5   | 79.3   | 82.8   | 84.7   | 85.3   | 85.8   | 85.4   | 83.5   | 75.8   | 66.4 |    |    |    |    |

MODEL SOUND PRESSURE LEVELS 150. 1FC, Fc 70 PERCENT GLL. NUM. EASY  
 PHRC. RATE - MONTH 12 DAY 10 AM. 19.1  
 ANGLES FROM INLET IN COLUNES (AND RADIANS)

140

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PRC. DATE - MONTH 12 DAY 16 No. 15.1

MODEL SOUND PRESSURE LEVELS 150. CFC, P. 70 PERCENT REL. HUM. DAVI  
ANGLES FROM TALLEY IN DEGREES (LAND HAZARD)

|                     | 59     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0     | 0 | 0 | 0 | 0 | 0 | 0 | PWL   |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|---|---|---|---|---|---|-------|
| FREQ                | (1.02) | (1.12) | (1.36) | (1.53) | (1.77) | (1.98) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | 0     | 0 | 0 | 0 | 0 | 0 | 0 | PWL   |
| RADIAL 17. FT.      | 50     | 63     | 80     |        |        |        |        |        |        |        |        |       |   |   |   |   |   |   |       |
| VEHICLE (5. P)      | 100    | 73.0   | 73.1   | 71.9   | 71.1   | 71.3   | 72.0   | 71.6   | 72.4   | 72.7   | 72.7   | 80.6  |   |   |   |   |   |   | 107.8 |
| CO-FIG R-55         | 124    | 68.8   | 70.1   | 70.7   | 70.9   | 73.0   | 71.8   | 72.4   | 73.7   | 75.2   | 77.4   | 80.3  |   |   |   |   |   |   | 107.5 |
| LOC SCHENECTADY     | 160    | 67.8   | 69.3   | 69.4   | 70.6   | 73.8   | 71.5   | 72.9   | 74.9   | 76.7   | 79.4   | 80.3  |   |   |   |   |   |   | 107.9 |
| DATE 12/13/74       | 200    | 68.3   | 69.3   | 70.2   | 71.9   | 73.7   | 75.9   | 75.7   | 77.9   | 78.4   | 80.9   | 82.6  |   |   |   |   |   |   | 110.0 |
| RUN 40/3            | 250    | 70.0   | 71.8   | 73.2   | 74.4   | 75.9   | 75.3   | 77.2   | 77.4   | 78.2   | 79.7   | 80.3  |   |   |   |   |   |   | 110.0 |
| TYPE                | 315    | 72.0   | 73.6   | 71.9   | 75.6   | 76.0   | 76.0   | 76.7   | 77.9   | 77.9   | 80.2   | 80.3  |   |   |   |   |   |   | 110.5 |
| BAR 29.9 MG         | 400    | 70.3   | 71.6   | 72.7   | 74.1   | 75.0   | 75.5   | 75.9   | 77.2   | 77.9   | 78.7   | 78.3  |   |   |   |   |   |   | 109.5 |
| (101000. N/M2)      | 500    | 69.1   | 70.3   | 71.4   | 73.2   | 74.1   | 74.3   | 76.7   | 77.4   | 77.4   | 77.7   | 77.3  |   |   |   |   |   |   | 108.9 |
| TAMB 46. DEC F      | 600    | 71.1   | 73.3   | 74.2   | 76.2   | 77.3   | 78.0   | 78.9   | 79.9   | 80.2   | 80.2   | 78.1  |   |   |   |   |   |   | 111.6 |
| TbET 45. DEC F      | 800    | 72.6   | 74.1   | 75.4   | 76.7   | 77.8   | 78.0   | 80.4   | 81.2   | 80.9   | 79.4   | 77.9  |   |   |   |   |   |   | 112.3 |
| (122. DEC F)        | 1000   | 71.4   | 73.8   | 75.7   | 76.2   | 77.6   | 79.1   | 81.2   | 82.4   | 82.7   | 80.2   | 76.8  |   |   |   |   |   |   | 112.0 |
| (1250. DEC F)       | 1250   | 71.9   | 75.1   | 76.9   | 78.7   | 81.1   | 82.6   | 84.9   | 86.2   | 85.9   | 82.0   | 78.1  |   |   |   |   |   |   | 110.1 |
| (1630. DEC F)       | 1630   | 74.6   | 82.6   | 85.2   | 87.5   | 88.9   | 88.9   | 91.1   | 92.4   | 93.4   | 87.7   | 81.1  |   |   |   |   |   |   | 123.5 |
| MACT 6.96 CM/M3     | 2000   | 74.6   | 79.1   | 81.7   | 85.0   | 86.9   | 87.6   | 88.4   | 88.1   | 86.9   | 82.7   | 78.6  |   |   |   |   |   |   | 119.0 |
| (100098. KG/M3)     | 2500   | 75.1   | 80.9   | 83.4   | 86.3   | 88.4   | 89.4   | 89.6   | 91.1   | 90.2   | 84.7   | 79.8  |   |   |   |   |   |   | 121.6 |
| NFA 6304. RPM       | 3150   | 77.6   | 83.1   | 84.9   | 88.5   | 90.4   | 91.8   | 93.6   | 94.3   | 94.4   | 88.5   | 84.5  |   |   |   |   |   |   | 124.7 |
| (600. RAD/SEC)      | 4000   | 75.3   | 81.6   | 83.8   | 87.3   | 89.1   | 91.0   | 92.0   | 92.2   | 91.8   | 85.9   | 81.2  |   |   |   |   |   |   | 123.0 |
| NFK 372. RPM        | 5000   | 76.0   | 82.3   | 85.2   | 88.4   | 90.3   | 93.0   | 92.4   | 93.4   | 91.5   | 86.4   | 80.9  |   |   |   |   |   |   | 124.1 |
| (887. RAD/SEC)      | 6300   | 73.3   | 79.1   | 81.9   | 86.1   | 87.8   | 88.7   | 90.2   | 91.7   | 90.3   | 84.9   | 79.7  |   |   |   |   |   |   | 121.0 |
| NFD 8823. RPM       | 8000   | 71.6   | 77.7   | 81.4   | 84.6   | 86.3   | 88.1   | 89.4   | 90.9   | 89.4   | 84.0   | 78.8  |   |   |   |   |   |   | 120.9 |
| (924. RAD/SEC)      | 10000  | 70.9   | 76.8   | 80.2   | 84.4   | 85.9   | 87.7   | 89.4   | 90.7   | 90.0   | 84.0   | 78.7  |   |   |   |   |   |   | 120.9 |
| NO. OF BLADES 15    | 12500  | 76.6   | 75.2   | 78.7   | 83.9   | 84.8   | 86.5   | 88.0   | 90.2   | 87.7   | 82.8   | 78.9  |   |   |   |   |   |   | 119.9 |
| FAN TIP SPEED 16000 | 20000  | 66.8   | 72.1   | 75.3   | 82.9   | 81.9   | 84.2   | 85.6   | 87.7   | 84.9   | 79.7   | 75.1  |   |   |   |   |   |   | 117.7 |
| 550. FT/SEC         | 25000  | 66.0   | 71.9   | 75.0   | 83.4   | 80.7   | 82.3   | 85.5   | 88.1   | 85.4   | 79.2   | 73.9  |   |   |   |   |   |   | 118.1 |
| 25000               | 31500  | 65.3   | 70.0   | 72.3   | 84.6   | 78.5   | 80.6   | 83.8   | 86.2   | 83.5   | 77.0   | 71.9  |   |   |   |   |   |   | 117.3 |
| 31500               | 40000  | 65.2   | 68.8   | 71.3   | 84.4   | 78.0   | 80.3   | 81.8   | 84.9   | 82.3   | 76.4   | 70.3  |   |   |   |   |   |   | 117.4 |
| 40000               | 50000  | 64.7   | 67.1   | 69.2   | 83.3   | 75.1   | 77.5   | 79.9   | 81.8   | 80.0   | 74.7   | 68.1  |   |   |   |   |   |   | 116.8 |
| 50000               | 60000  | 67.1   | 67.3   | 69.0   | 82.3   | 72.0   | 74.6   | 77.4   | 77.9   | 76.3   | 72.8   | 66.4  |   |   |   |   |   |   | 116.3 |
| 60000               | 63000  | 69.6   | 67.7   | 69.4   | 78.4   | 69.2   | 71.3   | 73.1   | 73.4   | 71.9   | 69.7   | 67.4  |   |   |   |   |   |   | 118.8 |
| 63000               | 65000  | 72.6   | 71.1   | 71.9   | 71.0   | 70.1   | 71.1   | 71.5   | 71.5   | 70.4   | 71.0   | 70.1  |   |   |   |   |   |   | 118.0 |
| OVERALL MEASURED    |        |        |        |        |        |        |        |        |        |        |        |       |   |   |   |   |   |   |       |
| OVERALL CALCULATED  |        | 67.2   | 91.5   | 93.9   | 98.1   | 98.8   | 100.3  | 101.5  | 102.9  | 101.9  | 97.0   | 93.7  |   |   |   |   |   |   | 133.0 |
| PNCB                |        | 100.2  | 105.0  | 107.0  | 110.4  | 111.9  | 113.4  | 114.7  | 115.6  | 115.3  | 110.5  | 108.9 |   |   |   |   |   |   |       |

DATE: 12/16/74 TIME: 11:00 AM

NOISE SOUND PRESSURE LEVELS (59, LFG, F, 70 PERCENT DEL. NUM. DAV)

ANGLES FROM INLET IN DEGREES (AND RADJANS)

FREQ. (1.00) (1.19) (1.36) (1.53) (1.71) (1.88) (2.06) (2.24) (2.42) (2.60) (2.78) (3.00) (3.18) (3.36) (3.54) (3.72) (3.90) (4.08) (4.26) (4.44) (4.62) (4.80) (5.00)

| SIDE LINE 200. FT. | 50    | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 0    | 0    | 0    | 0    | 0    | 0    |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| VEHICLE (60.96 F)  | 150   | 50.0 | 50.8 | 50.2 | 49.6 | 49.0 | 50.0 | 49.2 | 48.6 | 47.3 | 50.0 | 49.2 |      |      |      |      |      |
| CONFIG 22          | 125   | 45.6 | 47.8 | 48.9 | 49.2 | 51.3 | 49.7 | 49.7 | 49.8 | 49.7 | 49.6 | 49.7 | 49.6 | 49.7 | 49.6 | 49.7 | 49.5 |
| LCC SCHENECTADY    | 200   | 45.0 | 46.8 | 46.2 | 50.1 | 51.9 | 53.2 | 52.7 | 53.8 | 52.7 | 52.8 | 52.8 | 52.8 | 50.5 |      |      |      |
| DATE 12/13/74      | 250   | 46.6 | 49.2 | 51.1 | 52.5 | 53.1 | 52.9 | 54.1 | 53.2 | 52.3 | 51.4 | 48.0 |      |      |      |      |      |
| RUN 40/3           | 315   | 48.5 | 50.9 | 51.7 | 53.7 | 54.0 | 53.6 | 53.5 | 53.6 | 52.7 | 51.7 | 47.7 |      |      |      |      |      |
| TYPE               | 400   | 46.7 | 49.1 | 50.4 | 52.1 | 52.9 | 53.0 | 52.7 | 52.8 | 51.8 | 50.1 | 45.5 |      |      |      |      |      |
| BAR 29.9 HG        | 500   | 45.4 | 47.5 | 49.1 | 51.0 | 51.8 | 51.7 | 53.3 | 52.9 | 51.2 | 48.9 | 44.2 |      |      |      |      |      |
| (101000 W/M2)      | 630   | 47.3 | 50.4 | 51.7 | 53.9 | 55.9 | 55.8 | 55.5 | 55.3 | 53.8 | 51.2 | 44.6 |      |      |      |      |      |
| TAMB 48 DEG F      | 800   | 45.6 | 51.0 | 52.0 | 54.7 | 55.4 | 56.0 | 56.8 | 56.4 | 54.4 | 50.2 | 44.0 |      |      |      |      |      |
| (262 DEG K)        | 1000  | 47.2 | 50.6 | 53.0 | 53.7 | 55.0 | 56.1 | 57.4 | 57.5 | 55.9 | 50.7 | 42.7 |      |      |      |      |      |
| TNET 45 DEG F      | 1250  | 47.6 | 51.7 | 54.1 | 54.1 | 58.4 | 59.5 | 61.0 | 61.0 | 59.6 | 52.2 | 43.9 |      |      |      |      |      |
| (250 DEG K)        | 1500  | 54.2 | 58.1 | 62.2 | 65.2 | 66.0 | 65.6 | 67.1 | 69.1 | 66.2 | 57.8 | 46.0 |      |      |      |      |      |
| NACT 6.96 GR/M3    | 2000  | 49.9 | 55.4 | 58.5 | 62.1 | 63.9 | 64.1 | 64.1 | 62.6 | 59.4 | 52.2 | 43.0 |      |      |      |      |      |
| (1.00696 KW/M3)    | 2500  | 50.2 | 57.0 | 60.0 | 63.7 | 65.2 | 65.7 | 65.1 | 65.3 | 62.4 | 53.9 | 43.7 |      |      |      |      |      |
| NFA 6304 RPM       | 3150  | 52.4 | 58.9 | 61.2 | 65.4 | 66.9 | 67.9 | 68.8 | 68.2 | 66.2 | 57.1 | 47.6 |      |      |      |      |      |
| (1.660 RAD/SEC)    | 4000  | 49.6 | 56.9 | 59.7 | 63.5 | 65.2 | 66.6 | 66.7 | 65.5 | 63.6 | 53.7 | 43.0 |      |      |      |      |      |
| NFK 6372 RPM       | 5000  | 50.0 | 57.4 | 60.9 | 64.7 | 66.2 | 68.3 | 66.9 | 66.4 | 62.3 | 53.7 | 42.0 |      |      |      |      |      |
| (1.687 RAD/SEC)    | 6300  | 46.4 | 53.4 | 56.9 | 61.4 | 62.6 | 63.3 | 63.8 | 63.8 | 60.8 | 50.7 | 38.7 |      |      |      |      |      |
| NFD 8823 RPM       | 8000  | 43.5 | 50.9 | 55.3 | 59.7 | 60.4 | 61.6 | 61.6 | 61.6 | 57.4 | 47.7 | 34.9 |      |      |      |      |      |
| (1.924 RAD/SEC)    | 10000 | 41.0 | 48.3 | 52.5 | 57.0 | 58.4 | 59.6 | 60.1 | 59.4 | 55.8 | 44.7 | 30.0 |      |      |      |      |      |
| NO. OF BLADES 15   | 12500 | 39.0 | 44.3 | 48.8 | 54.3 | 55.1 | 56.1 | 56.2 | 56.1 | 49.9 | 38.8 | 21.6 |      |      |      |      |      |
| FAN TIP SPEED      | 16000 | 29.9 | 37.3 | 41.7 | 48.8 | 48.6 | 49.9 | 49.6 | 48.9 | 41.5 | 28.6 | 9.0  |      |      |      |      |      |
| 550. FT/SEC        | 20000 | 23.5 | 31.0 | 36.5 | 45.5 | 42.6 | 43.1 | 44.1 | 43.1 | 34.8 | 18.6 |      |      |      |      |      |      |
|                    | 25000 | 15.4 | 22.7 | 26.9 | 36.9 | 33.6 | 34.2 | 34.2 | 32.3 | 22.1 | 2.7  |      |      |      |      |      |      |
|                    | 31500 | 2.7  | 10.7 | 15.7 | 20.9 | 23.0 | 23.4 | 21.3 | 18.2 | 5.5  |      |      |      |      |      |      |      |
|                    | 40000 |      |      |      | 13.9 | 5.1  | 5.1  | 2.5  |      |      |      |      |      |      |      |      |      |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| OVERALL CALCULATED |       | 61.9 | 67.0 | 69.8 | 73.3 | 74.6 | 75.5 | 75.7 | 75.7 | 72.9 | 65.7 | 59.1 |      |      |      |      |      |
| PNDP               |       | 74.9 | 80.7 | 83.3 | 86.9 | 88.3 | 89.2 | 89.7 | 89.4 | 87.0 | 79.1 | 70.1 |      |      |      |      |      |

NOISE SOUND PRESSURE LEVELS (59, LFG, F, 70 PERCENT DEL. NUM. DAV)



ANGLES FROM INLET IN DEGREES TANG. HORIZONTAL

PRC. (1.00) (1.10) (1.30) (1.50) (1.70) (1.80) (2.00) (2.20) (2.40) (2.60) (2.70) (3.00) (3.10) (3.20) (3.30) (3.40) (3.50)

|                     | 59    | 60    | 70    | 75    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150  | 0 | 0 | 0 | 0 | 0 | 0     |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---|---|---|---|---|-------|
| RADIA 17. FT.       | 50    | 63    | 80    |       |       |       |       |       |       |       |       |      |   |   |   |   |   |       |
| VEHICLE 1 5. H1     | 100   | 67.8  | 71.6  | 72.7  | 71.3  | 72.0  | 73.0  | 73.2  | 73.4  | 76.4  | 81.0  | 85.1 |   |   |   |   |   | 100.0 |
| VEHICLE R-55        | 125   | 75.3  | 74.6  | 78.4  | 77.4  | 77.5  | 77.5  | 74.7  | 77.9  | 79.2  | 87.2  | 84.0 |   |   |   |   |   | 102.0 |
| CONTC 22            | 160   | 71.0  | 73.0  | 72.9  | 74.1  | 74.3  | 74.5  | 76.2  | 78.4  | 80.4  | 83.9  | 85.1 |   |   |   |   |   | 111.0 |
| LOC SCHEMECTADY     | 200   | 70.8  | 71.3  | 72.7  | 74.1  | 76.3  | 77.8  | 74.7  | 80.9  | 81.4  | 84.9  | 84.1 |   |   |   |   |   | 113.2 |
| DATE 12/13/74       | 250   | 74.3  | 74.8  | 76.7  | 74.1  | 75.3  | 74.5  | 80.2  | 81.4  | 87.2  | 84.2  | 84.0 |   |   |   |   |   | 112.0 |
| RUN 47/4            | 315   | 74.8  | 76.6  | 76.9  | 74.6  | 79.0  | 79.8  | 80.2  | 80.9  | 81.7  | 83.9  | 84.1 |   |   |   |   |   | 113.9 |
| TYPE 400            | 74.8  | 74.3  | 75.7  | 76.6  | 77.5  | 78.3  | 74.9  | 80.7  | 81.2  | 82.2  | 82.3  |      |   |   |   |   |   | 112.6 |
| BAR 29.9 HG         | 500   | 71.8  | 73.6  | 74.4  | 75.9  | 77.1  | 77.5  | 79.7  | 80.2  | 80.0  | 81.4  | 81.1 |   |   |   |   |   | 112.1 |
| (01000. W/M2)       | 630   | 73.4  | 75.6  | 76.2  | 74.2  | 79.6  | 80.8  | 81.7  | 82.4  | 82.7  | 82.7  | 81.6 |   |   |   |   |   | 114.1 |
| TANG 40. DEG F      | 800   | 74.9  | 76.6  | 77.9  | 79.4  | 79.8  | 81.1  | 82.4  | 83.4  | 83.2  | 82.7  | 81.3 |   |   |   |   |   | 114.7 |
| (202. DEG F)        | 1000  | 74.4  | 76.8  | 78.2  | 79.4  | 83.3  | 82.1  | 83.4  | 84.9  | 85.2  | 81.9  | 79.8 |   |   |   |   |   | 115.5 |
| T-ET 44. DEG F      | 1250  | 74.4  | 76.9  | 78.7  | 80.7  | 82.9  | 85.1  | 87.2  | 87.7  | 86.9  | 83.0  | 80.6 |   |   |   |   |   | 117.0 |
| (280. DEG F)        | 1600  | 78.6  | 82.6  | 83.4  | 87.4  | 89.1  | 90.9  | 90.9  | 92.4  | 90.9  | 84.7  | 82.1 |   |   |   |   |   | 122.7 |
| MACT 6.39 CM/M3     | 2000  | 79.6  | 84.1  | 85.9  | 89.8  | 91.1  | 92.6  | 92.1  | 93.4  | 91.4  | 84.2  | 82.6 |   |   |   |   |   | 124.1 |
| (.00639 KG/M3)      | 2500  | 77.6  | 83.7  | 85.9  | 90.1  | 91.7  | 92.6  | 91.9  | 91.1  | 90.8  | 86.0  | 82.1 |   |   |   |   |   | 124.1 |
| NFA 7080. RPM       | 3150  | 79.6  | 84.7  | 87.1  | 91.1  | 93.2  | 93.9  | 94.1  | 95.8  | 94.4  | 89.2  | 84.5 |   |   |   |   |   | 126.1 |
| ( 742. RAD/SEC)     | 4600  | 79.3  | 85.4  | 84.0  | 92.3  | 93.6  | 95.6  | 95.5  | 96.0  | 94.6  | 89.4  | 85.2 |   |   |   |   |   | 127.0 |
| NFK 7104. RPM       | 5000  | 79.0  | 84.8  | 84.2  | 92.0  | 93.3  | 94.8  | 94.9  | 95.0  | 93.5  | 87.9  | 83.4 |   |   |   |   |   | 128.5 |
| ( 750. RAD/SEC)     | 6300  | 77.0  | 83.4  | 85.7  | 89.6  | 91.5  | 93.2  | 93.7  | 95.5  | 91.5  | 87.1  | 82.0 |   |   |   |   |   | 128.3 |
| NFB 8823. RPM       | 8000  | 75.7  | 82.8  | 84.9  | 89.4  | 90.4  | 91.9  | 93.5  | 94.7  | 91.2  | 84.3  | 81.3 |   |   |   |   |   | 124.4 |
| ( 924. RAD/SEC)     | 10000 | 74.7  | 80.8  | 85.0  | 89.2  | 90.4  | 91.7  | 93.0  | 94.2  | 91.3  | 86.3  | 81.8 |   |   |   |   |   | 124.3 |
| NO. CF BLADES 15    | 12500 | 73.4  | 80.0  | 83.3  | 84.9  | 89.1  | 91.1  | 91.8  | 94.0  | 89.7  | 85.2  | 80.2 |   |   |   |   |   | 123.6 |
| FAN TIP SPEED 16000 | 70.9  | 76.0  | 80.1  | 84.1  | 88.0  | 87.5  | 89.4  | 91.8  | 87.0  | 81.5  | 77.7  |      |   |   |   |   |   | 121.2 |
| 610. FT/SEC         | 20000 | 59.8  | 73.3  | 79.1  | 84.2  | 85.1  | 86.7  | 89.6  | 91.9  | 88.0  | 82.6  | 77.0 |   |   |   |   |   | 121.0 |
| 25000               | 64.8  | 74.1  | 77.2  | 84.3  | 83.4  | 85.5  | 87.3  | 90.0  | 86.3  | 80.7  | 75.3  |      |   |   |   |   |   | 120.6 |
| 31500               | 64.1  | 73.3  | 76.2  | 84.5  | 82.7  | 84.4  | 86.2  | 88.6  | 85.7  | 79.3  | 73.2  |      |   |   |   |   |   | 120.6 |
| 40000               | 67.2  | 70.1  | 73.7  | 83.2  | 79.3  | 82.0  | 84.6  | 85.7  | 83.2  | 77.6  | 68.2  |      |   |   |   |   |   | 119.7 |
| 50000               | 67.8  | 68.5  | 71.2  | 82.3  | 76.2  | 78.3  | 81.4  | 82.3  | 82.0  | 75.5  | 67.1  |      |   |   |   |   |   | 119.0 |
| 63000               | 64.9  | 67.2  | 69.9  | 77.6  | 71.5  | 73.5  | 75.0  | 76.1  | 75.9  | 70.0  | 67.4  |      |   |   |   |   |   | 118.0 |
| 80000               | 72.5  | 69.6  | 71.7  | 73.5  | 70.2  | 71.2  | 72.3  | 72.1  | 72.1  | 70.8  | 69.9  |      |   |   |   |   |   | 118.5 |
| OVERALL MEASURED    |       |       |       |       |       |       |       |       |       |       |       |      |   |   |   |   |   |       |
| OVERALL CALCULATED  | 89.8  | 94.5  | 96.9  | 100.8 | 102.2 | 103.7 | 104.2 | 105.7 | 103.3 | 99.2  | 96.8  |      |   |   |   |   |   | 130.3 |
| PNDS                | 102.8 | 107.7 | 110.1 | 113.7 | 115.2 | 116.7 | 117.0 | 117.9 | 116.5 | 112.3 | 109.0 |      |   |   |   |   |   |       |

FREQ. (1.02)(1.12)(1.36)(1.53)(1.71)(1.96)(2.06)(2.24)(2.42)(2.60)(2.78)(3.0)(3.16)(3.34)(3.52)(3.7)(3.88)(4.06)(4.24)

|                           | 50    | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 0    | 0 | 0 | 0 | 0 | 0 |
|---------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|
| SIDE LINE 200. FT.        | 63    |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| (60.96 F)                 | 60    |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| VEHICLE R-55              | 100   | 44.7 | 49.3 | 50.4 | 50.3 | 50.4 | 51.0 | 50.5 | 49.6 | 51.1 | 52.3 | 53.7 |   |   |   |   |   |
| CONFIG 22                 | 125   | 52.1 | 56.3 | 56.6 | 56.0 | 55.8 | 55.4 | 53.9 | 54.1 | 53.7 | 54.4 | 53.2 |   |   |   |   |   |
| LOC SCHENECTADY           | 160   | 47.8 | 51.2 | 51.0 | 52.4 | 52.5 | 52.3 | 53.3 | 54.4 | 54.8 | 50.0 | 53.2 |   |   |   |   |   |
| DATE 12/13/74             | 200   | 47.3 | 48.8 | 50.7 | 52.3 | 54.4 | 55.5 | 54.7 | 56.0 | 57.7 | 56.0 | 54.0 |   |   |   |   |   |
| RUN 40/4                  | 250   | 50.6 | 52.2 | 54.6 | 56.2 | 56.3 | 56.2 | 57.1 | 57.2 | 56.3 | 55.9 | 52.2 |   |   |   |   |   |
| TAPE                      | 315   | 51.3 | 53.3 | 54.7 | 56.7 | 57.0 | 57.3 | 57.6 | 58.6 | 55.7 | 55.3 | 51.5 |   |   |   |   |   |
| BAR 29.9 HG               | 400   | 59.2 | 52.1 | 53.4 | 54.6 | 55.4 | 55.4 | 55.7 | 56.3 | 55.1 | 53.6 | 49.3 |   |   |   |   |   |
| (101000. H/P/2)           | 500   | 48.1 | 50.7 | 52.1 | 53.8 | 54.8 | 54.9 | 54.3 | 55.7 | 54.7 | 52.6 | 47.9 |   |   |   |   |   |
| TAMB 48. DEG F            | 630   | 49.5 | 52.6 | 53.7 | 55.9 | 57.2 | 57.6 | 58.2 | 57.6 | 56.3 | 53.7 | 48.1 |   |   |   |   |   |
| (1282. DEG A)             | 800   | 50.0 | 53.5 | 55.4 | 57.1 | 57.4 | 58.2 | 58.8 | 58.6 | 56.6 | 53.4 | 47.5 |   |   |   |   |   |
| THET 44. DEG F            | 1000  | 50.2 | 51.4 | 55.5 | 56.9 | 57.7 | 59.1 | 59.7 | 60.0 | 58.4 | 52.4 | 45.7 |   |   |   |   |   |
| (1280. DEG R)             | 1250  | 50.1 | 53.5 | 55.8 | 58.1 | 60.1 | 62.0 | 63.3 | 62.5 | 60.0 | 53.2 | 46.0 |   |   |   |   |   |
| MACH 6.39 G/M/J           | 1500  | 54.2 | 59.1 | 60.4 | 65.0 | 65.3 | 67.6 | 68.4 | 67.1 | 63.7 | 54.6 | 47.0 |   |   |   |   |   |
| (100639 G/M/J)            | 2000  | 54.9 | 60.4 | 62.7 | 68.8 | 68.1 | 69.1 | 67.8 | 67.9 | 65.9 | 55.8 | 47.0 |   |   |   |   |   |
| NFA 7008. MPH             | 2500  | 52.7 | 59.7 | 62.5 | 68.9 | 68.4 | 69.0 | 67.4 | 67.3 | 63.2 | 55.2 | 45.9 |   |   |   |   |   |
| (1742. RAD/SEC)           | 3150  | 54.4 | 60.4 | 63.5 | 67.7 | 69.7 | 69.9 | 69.3 | 69.7 | 66.2 | 57.9 | 47.6 |   |   |   |   |   |
| MFK 7164. MPH             | 4000  | 53.6 | 60.7 | 64.0 | 68.5 | 69.7 | 71.2 | 70.2 | 69.3 | 66.0 | 57.2 | 47.0 |   |   |   |   |   |
| (1750. RAD/SEC)           | 5000  | 53.0 | 59.9 | 63.9 | 68.0 | 69.2 | 70.1 | 69.4 | 68.9 | 64.3 | 55.2 | 44.5 |   |   |   |   |   |
| MFB 8823. MPH             | 6300  | 50.2 | 57.7 | 60.6 | 64.9 | 66.6 | 67.8 | 67.3 | 67.6 | 61.2 | 53.0 | 41.0 |   |   |   |   |   |
| (1924. RAD/SEC)           | 8000  | 47.5 | 55.2 | 58.8 | 62.5 | 64.4 | 65.4 | 65.9 | 65.4 | 59.2 | 50.0 | 37.1 |   |   |   |   |   |
| NO. OF BLADES 15          | 10000 | 44.8 | 52.3 | 57.3 | 60.8 | 62.9 | 63.6 | 63.7 | 62.9 | 56.9 | 47.0 | 33.0 |   |   |   |   |   |
| FAN TIP SPEED 619. FT/SEC | 12500 | 49.8 | 49.1 | 53.4 | 57.4 | 58.4 | 60.7 | 60.0 | 59.9 | 52.0 | 41.4 | 24.9 |   |   |   |   |   |
|                           | 18000 | 34.0 | 41.2 | 46.5 | 50.9 | 52.7 | 53.3 | 53.4 | 53.0 | 43.6 | 30.7 | 11.6 |   |   |   |   |   |
|                           | 25000 | 18.3 | 26.8 | 31.8 | 36.6 | 38.4 | 38.1 | 38.1 | 36.2 | 25.8 | 6.3  |      |   |   |   |   |   |
|                           | 31500 | 5.7  | 14.9 | 20.6 | 29.0 | 27.7 | 27.5 | 25.7 | 21.8 | 8.9  |      |      |   |   |   |   |   |
|                           | 40000 |      |      | 3.0  | 13.9 | 9.4  | 9.5  | 7.2  |      |      |      |      |   |   |   |   |   |
|                           | 50000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
|                           | 63000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
|                           | 80000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| OVERALL CALCULATED        |       | 64.5 | 69.8 | 72.5 | 76.4 | 77.8 | 76.7 | 76.1 | 77.9 | 74.1 | 67.9 | 62.7 |   |   |   |   |   |
| PNCR                      |       | 77.5 | 83.2 | 86.1 | 90.1 | 91.4 | 92.5 | 91.6 | 91.5 | 88.0 | 80.8 | 72.1 |   |   |   |   |   |

MOTEL SOUND PRESSURE LEVELS (50. DBL. F. 70 PERCENT DBL. MIN. DAY)

MODEL SOUND PRESSURE LEVELS (DB) FROM INLET IN FEETES (AND RADIAN)

|                    | 50    | 60    | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 160  | 170  | 180  | 190  | 200  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| RADIA 17. FT.      | 50    | 63    | 76    | 89    | 102   | 115   | 128   | 141   | 154   | 167   | 180   | 193  | 206  | 219  | 232  | 245  |
| VEHICLE R-55       | 125   | 77.5  | 76.6  | 77.6  | 77.0  | 77.3  | 79.2  | 80.2  | 81.9  | 82.6  | 84.6  | 86.9 | 89.3 | 91.8 | 94.3 | 96.8 |
| COMPIC 22          | 160   | 74.7  | 76.5  | 76.4  | 77.4  | 78.3  | 78.0  | 79.9  | 81.9  | 83.8  | 85.8  | 87.8 | 89.8 | 91.8 | 93.8 | 95.8 |
| LOC SCHENECTADY    | 200   | 75.2  | 75.5  | 76.1  | 77.6  | 79.5  | 81.2  | 81.9  | 84.1  | 85.3  | 87.9  | 89.3 | 91.8 | 94.3 | 96.8 | 99.3 |
| BATE 12/13/74      | 250   | 77.7  | 79.0  | 80.1  | 81.4  | 82.5  | 83.0  | 84.7  | 85.4  | 86.8  | 87.8  | 89.8 | 91.8 | 93.8 | 95.8 | 97.8 |
| RUN 40/5           | 315   | 74.2  | 79.5  | 80.6  | 81.6  | 82.0  | 82.5  | 83.2  | 84.6  | 85.1  | 86.9  | 88.9 | 90.9 | 92.9 | 94.9 | 96.9 |
| TAPE               | 400   | 77.0  | 78.5  | 78.9  | 79.8  | 80.8  | 81.2  | 82.2  | 83.8  | 84.1  | 85.3  | 86.8 | 88.3 | 89.8 | 91.3 | 92.8 |
| BAR 29.0 MC        | 530   | 76.0  | 77.5  | 77.1  | 79.1  | 80.0  | 81.3  | 82.4  | 83.6  | 83.8  | 85.1  | 86.6 | 88.1 | 89.6 | 91.1 | 92.6 |
| 101000 N/M21       | 630   | 76.6  | 78.5  | 79.6  | 81.4  | 82.3  | 83.9  | 84.2  | 85.6  | 85.4  | 86.8  | 88.3 | 89.8 | 91.3 | 92.8 | 94.3 |
| TAMP 47. DEC P     | 800   | 81.1  | 81.3  | 83.1  | 82.9  | 84.1  | 84.3  | 85.9  | 86.9  | 88.9  | 89.3  | 91.8 | 93.3 | 94.8 | 96.3 | 97.8 |
| 1201. DEC P        | 1000  | 74.3  | 79.4  | 81.4  | 82.1  | 83.3  | 84.3  | 85.9  | 87.1  | 88.8  | 84.1  | 83.8 | 85.8 | 87.8 | 89.8 | 91.8 |
| TACT 44. DEC P     | 1250  | 77.1  | 80.0  | 81.6  | 83.2  | 84.6  | 87.3  | 88.9  | 89.6  | 89.6  | 84.3  | 84.3 | 86.3 | 88.3 | 90.3 | 92.3 |
| 1200. DEC P        | 1630  | 77.9  | 81.3  | 83.6  | 87.0  | 88.4  | 90.1  | 90.4  | 91.1  | 92.8  | 84.6  | 82.6 | 84.6 | 86.6 | 88.6 | 90.6 |
| MACT 6.40 CM/M     | 2030  | 82.6  | 87.6  | 91.0  | 95.2  | 95.6  | 98.6  | 98.1  | 99.4  | 97.4  | 98.0  | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 |
| 100000 RCM3        | 2500  | 91.3  | 87.6  | 88.6  | 93.3  | 94.4  | 94.1  | 94.9  | 95.8  | 92.6  | 87.0  | 84.8 | 82.8 | 80.8 | 78.8 | 76.8 |
| NFA 7077. RPM      | 3150  | 81.3  | 87.6  | 89.6  | 93.3  | 94.9  | 95.3  | 97.3  | 94.3  | 89.4  | 86.2  | 83.2 | 80.2 | 77.2 | 74.2 | 71.2 |
| 1 829. RAD/SEC     | 4000  | 83.3  | 89.8  | 92.7  | 96.7  | 97.1  | 94.3  | 99.2  | 99.5  | 94.3  | 87.6  | 88.7 | 83.7 | 76.7 | 69.7 | 62.7 |
| NFK 7070. RPM      | 5000  | 81.0  | 84.2  | 88.3  | 94.2  | 95.8  | 97.2  | 97.7  | 98.1  | 93.7  | 88.9  | 85.4 | 81.9 | 78.4 | 74.9 | 71.4 |
| 1 834. RAD/SEC     | 6300  | 81.0  | 87.3  | 90.6  | 95.8  | 95.9  | 98.7  | 98.9  | 98.7  | 94.0  | 88.6  | 85.6 | 82.6 | 79.6 | 76.6 | 73.6 |
| NFB 8023. RPM      | 8000  | 79.4  | 84.2  | 88.9  | 92.8  | 93.4  | 95.3  | 95.9  | 97.9  | 93.1  | 88.4  | 84.3 | 80.2 | 76.1 | 72.0 | 67.9 |
| 1 824. RAD/SEC     | 10000 | 78.4  | 85.7  | 88.4  | 91.8  | 93.1  | 94.9  | 96.4  | 97.4  | 93.2  | 88.9  | 84.2 | 80.9 | 77.6 | 74.3 | 71.0 |
| NO. OF BLADES 15   | 12500 | 78.3  | 85.2  | 88.4  | 91.3  | 92.8  | 93.5  | 95.3  | 96.7  | 91.9  | 87.5  | 83.9 | 80.3 | 76.7 | 73.1 | 69.5 |
| FAW TIP SPEED      | 16000 | 75.3  | 81.6  | 84.0  | 84.5  | 89.2  | 90.9  | 92.8  | 94.7  | 89.4  | 84.6  | 81.1 | 77.6 | 74.1 | 70.6 | 67.1 |
| 600. FT/SEC        | 23000 | 75.0  | 80.4  | 83.2  | 84.1  | 89.0  | 90.3  | 93.3  | 94.8  | 89.8  | 84.4  | 80.1 | 76.6 | 73.1 | 69.6 | 66.1 |
|                    | 25000 | 74.2  | 78.7  | 81.8  | 84.9  | 88.1  | 88.9  | 92.2  | 93.4  | 89.4  | 84.2  | 79.9 | 75.6 | 71.3 | 67.0 | 62.7 |
|                    | 31500 | 74.4  | 78.8  | 81.0  | 84.9  | 86.1  | 88.5  | 90.4  | 91.7  | 88.3  | 82.5  | 77.8 | 73.1 | 68.4 | 63.7 | 59.0 |
|                    | 40000 | 74.3  | 78.9  | 79.8  | 82.0  | 83.3  | 85.8  | 87.7  | 88.5  | 85.7  | 81.1  | 76.6 | 72.1 | 67.6 | 63.1 | 58.6 |
|                    | 50000 | 76.5  | 76.7  | 78.4  | 79.7  | 81.1  | 83.0  | 85.2  | 85.8  | 82.6  | 79.1  | 74.5 | 70.0 | 65.5 | 61.0 | 56.5 |
|                    | 63000 | 78.5  | 76.3  | 76.5  | 78.8  | 78.0  | 80.1  | 81.7  | 80.9  | 80.8  | 77.9  | 76.1 | 74.3 | 72.5 | 70.7 | 68.9 |
|                    | 80000 | 82.4  | 79.1  | 81.7  | 79.3  | 80.0  | 80.9  | 81.4  | 81.1  | 79.8  | 80.2  | 79.0 | 77.8 | 76.6 | 75.4 | 74.2 |
| OVERALL MEASURED   |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |
| OVERALL CALCULATED | 93.0  | 90.2  | 100.9 | 104.2 | 105.3 | 106.7 | 107.5 | 104.6 | 105.3 | 101.6 | 100.0 |      |      |      |      |      |
| PREP               | 106.3 | 111.5 | 114.1 | 117.5 | 118.3 | 119.5 | 120.2 | 121.6 | 118.9 | 116.9 | 112.6 |      |      |      |      |      |

NOISE CONTROL DIVISION, U.S. AIR FORCE, WRIGHT-PATTERSON AIR FORCE BASE, OHIO

MODEL SOUND PRESSURE LEVELS 150.0 FC, F<sub>0</sub> 70 PERCENT REL. HUM, 1451

ANGLES FROM TAILEY IN DEGREES TARD RADIANST

FREQ. 50 60 70 80 90 100 110 120 130 140 150 0 0 0 0 0 0 0 0

(1.62)(1.10)(1.36)(1.53)(1.71)(1.88)(2.06)(2.24)(2.42)(2.60)(2.78)(0.0)(0.0)(0.0)(0.0)(0.0)(0.0)(0.0)(0.0)

| SIDE LINE 200. FT. | 50    | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 0    | 0 | 0 | 0 | 0 | 0 |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|
| VEHICLE (60.06 H)  | 100   | 48.2 | 51.3 | 52.8 | 53.3 | 53.7 | 54.2 | 53.7 | 53.4 | 54.4 | 57.2 | 57.0 |   |   |   |   |   |
| VEHICLE R-55       | 100   | 54.4 | 54.5 | 54.8 | 54.5 | 57.5 | 57.1 | 57.4 | 56.0 | 57.1 | 54.9 | 54.9 |   |   |   |   |   |
| COA.FIG 22         | 100   | 51.5 | 54.1 | 54.5 | 55.8 | 56.5 | 56.8 | 57.1 | 57.0 | 58.3 | 57.8 | 58.9 |   |   |   |   |   |
| LOC SCHENECTADY    | 200   | 51.9 | 53.3 | 54.1 | 55.4 | 57.5 | 59.0 | 59.0 | 60.0 | 59.4 | 59.7 | 58.2 |   |   |   |   |   |
| DATE 12/13/74      | 250   | 54.3 | 56.4 | 58.8 | 59.7 | 60.5 | 60.6 | 61.4 | 61.4 | 60.0 | 59.5 | 57.4 |   |   |   |   |   |
| RUN 4C/5           | 315   | 54.7 | 56.3 | 58.5 | 59.4 | 60.2 | 60.0 | 60.0 | 60.3 | 56.1 | 54.3 | 55.4 |   |   |   |   |   |
| TYPE               | 400   | 53.4 | 55.8 | 56.6 | 57.8 | 58.5 | 58.7 | 58.5 | 58.5 | 58.1 | 56.7 | 53.9 |   |   |   |   |   |
| BAR 20.0 MC        | 500   | 52.3 | 54.7 | 54.8 | 57.0 | 57.8 | 58.6 | 58.1 | 59.1 | 57.4 | 56.2 | 52.2 |   |   |   |   |   |
| (101006. N/M2)     | 630   | 52.7 | 55.6 | 57.2 | 58.1 | 60.1 | 60.8 | 60.7 | 61.0 | 59.2 | 58.5 | 52.1 |   |   |   |   |   |
| TARD 47. DEG F     | 800   | 57.1 | 58.2 | 60.8 | 60.5 | 61.5 | 61.4 | 62.3 | 62.1 | 60.0 | 56.1 | 52.3 |   |   |   |   |   |
| (201. DEG R)       | 1000  | 54.2 | 56.5 | 58.7 | 59.4 | 60.7 | 61.3 | 62.2 | 62.2 | 60.1 | 54.8 | 49.8 |   |   |   |   |   |
| T-ET 44. DEG F     | 1250  | 52.8 | 56.7 | 58.4 | 60.4 | 62.1 | 64.2 | 65.9 | 64.5 | 61.6 | 54.6 | 49.7 |   |   |   |   |   |
| (200. DEG R)       | 1500  | 53.4 | 57.4 | 60.8 | 64.2 | 65.5 | 66.8 | 66.3 | 65.4 | 62.4 | 54.5 | 47.7 |   |   |   |   |   |
| MACT 6009 G/M3     | 2000  | 57.9 | 63.8 | 68.7 | 72.3 | 72.4 | 73.3 | 73.9 | 73.8 | 69.9 | 60.4 | 52.7 |   |   |   |   |   |
| (100009 G/M3)      | 2500  | 56.4 | 63.7 | 68.2 | 70.1 | 71.2 | 70.4 | 70.4 | 70.0 | 64.9 | 57.0 | 49.6 |   |   |   |   |   |
| NFA 7077. RPM      | 3100  | 56.1 | 63.4 | 68.2 | 69.9 | 71.4 | 71.4 | 70.5 | 71.1 | 66.1 | 58.0 | 49.3 |   |   |   |   |   |
| ( 825. RAD/SEC)    | 4000  | 57.5 | 65.1 | 68.7 | 72.9 | 73.2 | 73.9 | 74.0 | 73.8 | 67.4 | 60.3 | 50.5 |   |   |   |   |   |
| NFA 7078. RPM      | 5000  | 54.9 | 63.3 | 64.8 | 70.2 | 71.7 | 72.6 | 72.1 | 71.1 | 64.5 | 56.9 | 46.4 |   |   |   |   |   |
| ( 834. RAD/SEC)    | 6300  | 54.2 | 61.6 | 65.6 | 69.1 | 70.1 | 71.3 | 70.4 | 70.8 | 63.6 | 55.8 | 44.4 |   |   |   |   |   |
| NFD 8023. RPM      | 8000  | 51.2 | 59.3 | 62.7 | 64.2 | 67.2 | 68.0 | 68.3 | 68.6 | 61.1 | 52.1 | 40.0 |   |   |   |   |   |
| ( 924. RAD/SEC)    | 10000 | 48.7 | 57.2 | 61.8 | 64.5 | 65.7 | 66.0 | 67.1 | 66.1 | 54.8 | 40.6 | 35.4 |   |   |   |   |   |
| NO. OF BLADES 15   | 12500 | 45.8 | 54.3 | 58.3 | 61.8 | 63.1 | 63.1 | 63.4 | 62.8 | 54.1 | 43.7 | 28.6 |   |   |   |   |   |
| FAN TIP SPEED      | 16000 | 34.4 | 46.8 | 50.4 | 55.3 | 55.8 | 56.7 | 56.9 | 55.9 | 46.0 | 33.5 | 15.0 |   |   |   |   |   |
| 600. FT/SEC        | 20000 | 32.3 | 46.5 | 46.7 | 50.2 | 50.9 | 51.1 | 51.9 | 49.6 | 39.0 | 23.7 |      |   |   |   |   |   |
|                    | 25000 | 24.8 | 32.4 | 36.4 | 42.2 | 43.1 | 42.5 | 43.0 | 38.6 | 28.1 | 8.8  |      |   |   |   |   |   |
|                    | 31500 | 12.0 | 20.7 | 23.4 | 30.3 | 31.1 | 31.0 | 29.4 | 24.9 | 11.5 |      |      |   |   |   |   |   |
|                    | 40000 |      | 2.8  | 8.3  | 12.7 | 13.9 | 13.3 | 10.3 | 2.6  |      |      |      |   |   |   |   |   |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| OVERALL CALCULATED |       | 67.7 | 73.1 | 76.3 | 79.8 | 80.7 | 81.7 | 81.2 | 80.9 | 76.2 | 70.5 | 66.7 |   |   |   |   |   |
| PAUF               |       | 80.7 | 87.0 | 90.2 | 93.8 | 94.5 | 95.2 | 95.1 | 94.9 | 89.7 | 83.2 | 78.8 |   |   |   |   |   |

NOISE CONTROL DIVISION, U.S. ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. 20460

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PAGE 1 FULL SCALE DATA RECEPTION PROGRAM

PRCC. DATE = MON, 12 DAY 16 MO. 1971

MODEL SOUND PRESSURE LEVELS 159. DFG, P, 70 PERCENT BGL, MON, DAY

4 ACLES FROM INLET TO BRIDGE'S TANK WASTEWAY

PRF. 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

|               |                 |       |      |      |      |      |      |      |      |      |      |      |      |       |
|---------------|-----------------|-------|------|------|------|------|------|------|------|------|------|------|------|-------|
| RACIAL        | 17. FT.         | 180   | 71.2 | 75.5 | 74.4 | 74.3 | 75.5 | 75.2 | 76.2 | 77.1 | 80.1 | 84.0 | 87.5 | 112.1 |
| VEHICLE       | 5. H1           | 185   | 77.2 | 77.3 | 77.0 | 77.6 | 79.5 | 79.5 | 79.7 | 80.0 | 82.6 | 84.0 | 88.0 | 115.0 |
| CONV LC       | R-5g            | 190   | 74.5 | 75.3 | 76.6 | 77.6 | 74.3 | 74.0 | 79.9 | 81.6 | 84.1 | 86.3 | 90.8 | 115.2 |
| LCC           | SCHECTAD        | 200   | 74.5 | 75.3 | 75.9 | 77.3 | 79.5 | 81.0 | 81.9 | 84.0 | 84.8 | 87.5 | 90.5 | 110.0 |
| DATE          | 12/13/74        | 250   | 77.5 | 78.0 | 80.1 | 81.3 | 81.5 | 83.0 | 84.2 | 85.4 | 86.3 | 87.5 | 90.5 | 117.7 |
| RPM           | 40/6            | 315   | 78.2 | 79.0 | 80.1 | 81.0 | 82.3 | 82.7 | 83.2 | 84.6 | 85.1 | 87.0 | 88.3 | 117.7 |
| TYPE          |                 | 430   | 77.3 | 78.5 | 79.6 | 80.1 | 80.5 | 81.5 | 82.4 | 83.9 | 84.3 | 85.6 | 88.5 | 116.0 |
| AIR           | 20.9 MG         | 500   | 75.8 | 77.5 | 77.4 | 77.7 | 79.4 | 80.3 | 82.7 | 83.4 | 83.8 | 84.6 | 89.0 | 115.3 |
|               | (1000 - 4/M2)   | 630   | 77.3 | 78.5 | 80.1 | 81.1 | 82.3 | 83.5 | 84.2 | 85.4 | 85.6 | 85.6 | 89.5 | 117.0 |
| TAP           | 4. DEC F        | 650   | 81.3 | 81.3 | 83.4 | 82.9 | 84.3 | 84.3 | 85.0 | 86.0 | 86.6 | 85.3 | 89.0 | 119.5 |
|               | (202. DEC F)    | 1030  | 77.8 | 80.0 | 81.4 | 81.9 | 83.1 | 84.5 | 85.9 | 86.9 | 86.2 | 84.1 | 83.5 | 117.0 |
| TRF           | 44. DEC F       | 1250  | 77.4 | 79.0 | 81.6 | 83.2 | 85.3 | 87.0 | 88.6 | 89.6 | 88.3 | 85.1 | 83.5 | 119.0 |
|               | (20. DEC K)     | 1520  | 77.8 | 81.1 | 83.8 | 84.7 | 86.4 | 88.0 | 89.0 | 89.0 | 89.8 | 84.4 | 83.0 | 121.0 |
| MACT          | 6.30 CM/MT      | 2030  | 82.8 | 87.0 | 87.1 | 85.5 | 84.4 | 86.0 | 88.0 | 88.0 | 87.4 | 81.4 | 80.0 | 120.0 |
|               | (80000 CM/MT)   | 2530  | 79.8 | 80.0 | 81.1 | 83.0 | 83.7 | 84.6 | 84.0 | 85.0 | 82.1 | 80.1 | 84.5 | 120.5 |
| MFA           | 7070. RPM       | 3150  | 80.0 | 80.0 | 80.1 | 83.0 | 84.0 | 84.0 | 85.3 | 86.0 | 84.3 | 80.6 | 85.0 | 127.3 |
|               | ( 825. RAC/SEC) | 4030  | 82.5 | 89.3 | 92.3 | 96.7 | 97.6 | 99.3 | 99.0 | 99.5 | 94.5 | 97.1 | 88.2 | 130.3 |
| MFK           | 7043. RPM       | 5030  | 80.7 | 87.3 | 90.7 | 94.0 | 95.8 | 96.7 | 97.2 | 98.1 | 94.8 | 88.3 | 89.4 | 128.5 |
|               | ( 834. RAC/SEC) | 6330  | 80.3 | 87.1 | 90.1 | 93.8 | 94.0 | 96.3 | 96.7 | 98.9 | 93.5 | 89.5 | 89.7 | 128.5 |
| MFB           | 8023. RPM       | 8030  | 78.9 | 85.2 | 86.9 | 91.8 | 93.0 | 95.1 | 96.5 | 97.0 | 92.8 | 84.4 | 84.5 | 127.5 |
|               | ( 924. RAC/SEC) | 10000 | 78.6 | 85.5 | 86.3 | 91.4 | 93.7 | 94.4 | 96.5 | 96.9 | 93.7 | 88.7 | 84.5 | 127.3 |
| NO. OF BLADES | 15              | 12500 | 78.3 | 84.2 | 89.8 | 91.1 | 92.8 | 93.0 | 95.6 | 96.7 | 91.6 | 87.0 | 83.2 | 126.0 |
| FAN TIP SPEED |                 | 16000 | 75.1 | 80.7 | 84.1 | 87.5 | 89.5 | 91.2 | 92.9 | 94.5 | 89.0 | 84.2 | 80.7 | 124.0 |
|               | 600. FT/SEC     | 20000 | 74.0 | 80.0 | 83.3 | 87.4 | 89.1 | 90.4 | 92.0 | 94.7 | 90.4 | 84.2 | 80.0 | 124.0 |
|               |                 | 25000 | 75.3 | 79.1 | 81.7 | 84.2 | 88.2 | 89.7 | 92.0 | 93.5 | 89.8 | 84.5 | 79.5 | 124.5 |
|               |                 | 31500 | 74.3 | 78.2 | 80.0 | 84.7 | 88.7 | 88.0 | 90.2 | 91.0 | 87.0 | 82.9 | 77.4 | 123.0 |
|               |                 | 40000 | 74.4 | 76.5 | 79.2 | 81.7 | 83.7 | 85.2 | 88.4 | 88.7 | 85.6 | 80.7 | 74.5 | 122.6 |
|               |                 | 50000 | 76.0 | 79.0 | 79.1 | 79.0 | 81.2 | 83.0 | 86.1 | 84.0 | 82.6 | 79.1 | 74.5 | 121.0 |
|               |                 | 63000 | 78.6 | 76.2 | 78.8 | 77.6 | 78.4 | 79.0 | 82.0 | 80.3 | 80.1 | 78.0 | 76.4 | 120.0 |
|               |                 | 80000 | 82.4 | 79.0 | 81.7 | 79.2 | 79.9 | 80.9 | 81.3 | 81.0 | 79.0 | 80.2 | 79.0 | 127.4 |

|                    |       |       |       |       |       |       |       |       |       |       |       |  |  |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|-------|
| OVERALL MEASURED   |       |       |       |       |       |       |       |       |       |       |       |  |  |       |
| OVERALL CALCULATED | 93.4  | 97.7  | 100.7 | 104.0 | 105.4 | 106.6 | 107.5 | 108.8 | 109.3 | 101.0 | 100.5 |  |  | 120.8 |
| PRCC               | 105.7 | 110.0 | 113.7 | 117.1 | 118.5 | 119.4 | 120.1 | 120.0 | 118.3 | 114.7 | 112.2 |  |  |       |

ORIGINAL PAGE IS OF POOR QUALITY

NOVEL SOUND PRESSURE LEVELS 150, 160, 170 PERCENT REL. HUM. EAST

ANGLES FROM INLET IN DEGREES TAKE READINGS

|                    | 50°   | 60°   | 70°   | 80°   | 90°   | 100°  | 110°  | 120°  | 130°  | 140°  | 150°  | 0°   | 0°   | 0° | 0° | 0° |  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|----|----|----|--|
|                    | 11.02 | 11.10 | 11.34 | 11.53 | 11.71 | 11.88 | 12.06 | 12.24 | 12.42 | 12.60 | 12.78 | 0.   | 0.   | 0. | 0. | 0. |  |
|                    | 50    | 60    | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 0    | 0    | 0  | 0  | 0  |  |
| SIDE INE 200. FT.  | 100   | 40.7  | 51.3  | 52.6  | 55.8  | 53.4  | 53.2  | 53.5  | 52.1  | 54.8  | 52.2  | 57.4 |      |    |    |    |  |
| VEHICLE K499       | 123   | 54.1  | 55.6  | 55.8  | 55.9  | 57.3  | 57.4  | 56.0  | 57.0  | 57.1  | 57.0  | 57.2 |      |    |    |    |  |
| CORNIC 22          | 140   | 51.3  | 53.0  | 54.7  | 55.0  | 56.2  | 55.0  | 57.1  | 57.7  | 58.6  | 58.3  | 58.0 |      |    |    |    |  |
| LCC SCHEMATA       | 260   | 51.2  | 52.8  | 53.0  | 54.5  | 57.6  | 58.7  | 58.0  | 60.5  | 59.1  | 59.4  | 58.0 |      |    |    |    |  |
| DATE 12/13/74      | 250   | 54.1  | 56.2  | 58.0  | 59.4  | 59.3  | 60.4  | 61.1  | 61.2  | 60.5  | 59.3  | 57.2 |      |    |    |    |  |
| RUN 4870           | 315   | 54.7  | 57.1  | 58.0  | 59.6  | 60.2  | 60.3  | 61.0  | 60.0  | 60.3  | 59.1  | 58.0 | 55.7 |    |    |    |  |
| TYPE 430           | 430   | 53.7  | 55.8  | 54.4  | 54.3  | 58.4  | 59.0  | 59.2  | 58.5  | 58.2  | 58.2  | 58.7 |      |    |    |    |  |
| BAR 20.0 MC        | 520   | 52.1  | 54.7  | 53.9  | 54.7  | 57.6  | 58.1  | 59.3  | 58.0  | 57.6  | 58.7  | 51.0 |      |    |    |    |  |
| 101000. N/P21      | 630   | 53.5  | 55.6  | 57.7  | 58.9  | 60.8  | 60.0  | 60.7  | 60.7  | 59.2  | 58.5  | 51.0 |      |    |    |    |  |
| TARD 40. DEC F     | 650   | 57.4  | 58.2  | 60.8  | 61.5  | 61.7  | 61.4  | 62.3  | 62.1  | 60.0  | 58.1  | 52.3 |      |    |    |    |  |
| 1202. DEL K1       | 1000  | 53.7  | 56.8  | 58.7  | 59.4  | 63.5  | 61.0  | 62.2  | 61.9  | 58.0  | 58.0  | 49.4 |      |    |    |    |  |
| T-ET 40. DEC F     | 1250  | 53.1  | 58.4  | 58.0  | 60.4  | 62.8  | 63.0  | 64.4  | 64.5  | 61.4  | 59.3  | 49.0 |      |    |    |    |  |
| 1240. DEC K1       | 1400  | 53.1  | 57.9  | 60.8  | 63.0  | 63.5  | 64.3  | 64.8  | 63.5  | 62.2  | 58.2  | 48.0 |      |    |    |    |  |
| MACT 0.30 GM/M3    | 2000  | 57.0  | 63.8  | 68.3  | 72.5  | 73.3  | 75.3  | 74.6  | 73.3  | 69.8  | 68.9  | 52.4 |      |    |    |    |  |
| 1.00030 KG/M3      | 2500  | 55.9  | 62.7  | 63.7  | 66.0  | 70.4  | 70.9  | 70.4  | 70.0  | 64.3  | 57.3  | 48.4 |      |    |    |    |  |
| MFA 707R. 40M      | 3100  | 55.6  | 62.6  | 64.4  | 66.4  | 71.4  | 70.0  | 70.5  | 70.0  | 64.1  | 58.2  | 48.0 |      |    |    |    |  |
| 1 025. MAC/SEC     | 4000  | 54.8  | 64.4  | 67.0  | 72.4  | 73.7  | 73.9  | 73.7  | 72.8  | 67.7  | 58.8  | 50.0 |      |    |    |    |  |
| MFR 703. 40M       | 5000  | 54.7  | 67.3  | 68.4  | 69.3  | 71.7  | 72.1  | 71.6  | 71.1  | 64.7  | 58.6  | 48.4 |      |    |    |    |  |
| 1 034. 403/SEC     | 6300  | 53.4  | 61.4  | 65.1  | 69.1  | 70.1  | 71.1  | 70.3  | 71.0  | 63.1  | 59.3  | 48.7 |      |    |    |    |  |
| MFB 0023. 40M      | 8000  | 50.8  | 58.3  | 62.8  | 66.0  | 67.7  | 68.0  | 68.9  | 68.6  | 60.4  | 50.1  | 40.3 |      |    |    |    |  |
| 1 024. 440/SEC     | 10000 | 49.7  | 57.8  | 61.2  | 64.3  | 64.2  | 64.3  | 67.2  | 65.6  | 59.3  | 49.3  | 38.7 |      |    |    |    |  |
| NO. OF BLADES 15   | 12500 | 45.8  | 53.3  | 58.1  | 61.0  | 63.1  | 63.1  | 63.7  | 62.6  | 53.0  | 43.8  | 27.8 |      |    |    |    |  |
| VAN TIP SPEED      | 16000 | 38.2  | 45.0  | 50.5  | 54.4  | 58.2  | 57.0  | 56.9  | 55.7  | 46.5  | 33.1  | 14.8 |      |    |    |    |  |
| 600. FT/SEC        | 20000 | 37.3  | 40.8  | 44.8  | 49.3  | 50.9  | 51.1  | 51.4  | 49.6  | 39.6  | 23.9  |      |      |    |    |    |  |
|                    | 25000 | 24.7  | 31.8  | 36.3  | 41.5  | 43.2  | 43.3  | 42.8  | 39.7  | 28.4  | 10.2  |      |      |    |    |    |  |
|                    | 31500 | 11.0  | 20.1  | 25.3  | 30.1  | 31.7  | 31.8  | 28.7  | 25.0  | 10.0  |       |      |      |    |    |    |  |
|                    | 40000 |       | 2.4   | 8.5   | 12.3  | 13.8  | 12.7  | 10.9  | 2.8   |       |       |      |      |    |    |    |  |
|                    | 50000 |       |       |       |       |       |       |       |       |       |       |      |      |    |    |    |  |
|                    | 63000 |       |       |       |       |       |       |       |       |       |       |      |      |    |    |    |  |
|                    | 80000 |       |       |       |       |       |       |       |       |       |       |      |      |    |    |    |  |
| OVERALL CALCULATED |       | 47.4  | 52.6  | 56.2  | 59.6  | 61.5  | 61.3  | 60.7  | 58.2  | 50.5  | 40.6  |      |      |    |    |    |  |
| PMCR               |       | 40.2  | 46.4  | 49.8  | 53.5  | 54.7  | 55.0  | 54.4  | 50.8  | 43.0  | 28.2  |      |      |    |    |    |  |

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SAMPLES FROM TALLEY IN LINES TAKE RADIATION

|                        | 50   | 60    | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 160 | 170 | 180 | 190 | 200   |
|------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|
| RADIAL 17. FT.         | 50   | 60    | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 160 | 170 | 180 | 190 | 200   |
| VEHICLE 5. FT.         | 64.0 | 71.6  | 75.4  | 77.3  | 78.5  | 78.9  | 78.4  | 69.7  | 74.0  | 75.4  | 77.0  |     |     |     |     | 100.0 |
| CONCRETE 22            | 66.5 | 68.3  | 68.4  | 67.9  | 67.3  | 69.0  | 69.7  | 71.4  | 72.7  | 75.4  | 78.3  |     |     |     |     | 104.2 |
| LCC SCHEMECTADY        | 65.3 | 66.6  | 67.2  | 67.5  | 70.5  | 71.9  | 72.0  | 74.7  | 75.4  | 77.7  | 78.3  |     |     |     |     | 100.0 |
| DATE 12/13/74          | 57.0 | 64.1  | 70.2  | 71.1  | 71.5  | 72.3  | 73.7  | 73.9  | 74.2  | 76.2  | 76.3  |     |     |     |     | 100.0 |
| SLM 66/7               | 61.0 | 69.3  | 70.7  | 71.0  | 72.3  | 73.0  | 72.0  | 73.9  | 74.0  | 75.9  | 76.1  |     |     |     |     | 100.0 |
| TYPE 430               | 67.3 | 69.1  | 69.7  | 71.1  | 72.5  | 72.5  | 72.0  | 74.7  | 74.0  | 75.4  | 76.3  |     |     |     |     | 100.0 |
| BAR 20.0 MC            | 66.6 | 64.3  | 64.4  | 67.9  | 71.3  | 72.0  | 73.7  | 73.9  | 74.2  | 74.4  | 73.3  |     |     |     |     | 100.0 |
| 101000-4/M21           | 62.0 | 68.4  | 74.3  | 71.2  | 73.4  | 74.6  | 75.0  | 76.4  | 77.2  | 77.7  | 79.1  |     |     |     |     | 100.0 |
| TAMU 40. DEC F         | 67.0 | 71.0  | 73.0  | 74.2  | 75.9  | 76.3  | 76.4  | 78.2  | 78.2  | 79.7  | 79.6  |     |     |     |     | 110.3 |
| 1202. DEC F            | 64.0 | 71.3  | 73.2  | 75.0  | 75.3  | 74.3  | 74.2  | 76.7  | 80.4  | 77.0  | 74.1  |     |     |     |     | 110.4 |
| FACT 60. DEC F         | 73.1 | 75.6  | 76.9  | 77.2  | 81.1  | 83.1  | 84.9  | 86.2  | 86.4  | 84.7  | 79.1  |     |     |     |     | 110.0 |
| 1200. DEC F            | 71.1 | 74.8  | 76.7  | 80.3  | 81.9  | 83.0  | 84.8  | 85.7  | 85.0  | 82.0  | 76.1  |     |     |     |     | 110.3 |
| FACT 8.30 CH/FT        | 71.6 | 75.4  | 74.7  | 81.4  | 84.1  | 84.0  | 85.1  | 85.1  | 84.4  | 81.0  | 76.3  |     |     |     |     | 110.0 |
| 100000 (G/FT)          | 74.4 | 79.2  | 81.0  | 84.4  | 86.7  | 87.0  | 89.1  | 88.0  | 90.4  | 84.5  | 80.3  |     |     |     |     | 120.0 |
| MFA 5520. RPM          | 73.4 | 78.4  | 80.0  | 84.1  | 86.7  | 87.0  | 88.4  | 88.6  | 90.2  | 84.2  | 80.3  |     |     |     |     | 120.3 |
| 1 570. RAD/SEC         | 68.0 | 72.5  | 74.6  | 80.0  | 84.3  | 86.4  | 87.0  | 89.3  | 91.0  | 89.4  | 79.3  |     |     |     |     | 120.0 |
| MFA 8570. RPM          | 74.7 | 78.0  | 79.7  | 83.2  | 85.1  | 84.5  | 87.4  | 88.7  | 88.3  | 82.7  | 77.4  |     |     |     |     | 110.0 |
| 1 504. RAD/SEC         | 70.3 | 74.1  | 76.2  | 81.6  | 83.5  | 85.0  | 86.4  | 88.2  | 87.3  | 81.0  | 76.5  |     |     |     |     | 110.0 |
| MFA 8023. RPM          | 64.2 | 73.3  | 76.7  | 80.6  | 81.0  | 83.0  | 83.2  | 86.7  | 84.0  | 84.0  | 79.0  |     |     |     |     | 117.0 |
| 1 920. RAD/SEC         | 67.2 | 72.1  | 75.7  | 79.4  | 81.4  | 83.7  | 85.2  | 84.2  | 86.0  | 81.1  | 76.0  |     |     |     |     | 110.0 |
| NO. OF BLADES 15 12500 | 67.1 | 75.0  | 73.6  | 74.7  | 80.6  | 82.0  | 84.1  | 85.5  | 85.5  | 79.3  | 74.7  |     |     |     |     | 110.0 |
| PM YIP SPEED           | 64.1 | 64.0  | 70.0  | 76.1  | 77.3  | 79.0  | 81.1  | 84.1  | 83.0  | 78.0  | 71.7  |     |     |     |     | 113.0 |
| 402. FT/SEC            | 63.0 | 64.0  | 69.6  | 75.7  | 75.0  | 74.4  | 80.0  | 83.2  | 87.7  | 74.1  | 71.2  |     |     |     |     | 113.0 |
| 15000                  | 64.3 | 64.4  | 68.3  | 74.8  | 74.4  | 76.3  | 78.3  | 84.3  | 80.8  | 74.4  | 64.0  |     |     |     |     | 112.1 |
| 31400                  | 63.3 | 63.5  | 67.4  | 74.0  | 73.4  | 75.0  | 77.7  | 76.0  | 79.5  | 73.3  | 67.0  |     |     |     |     | 112.1 |
| 40000                  | 63.0 | 64.0  | 66.2  | 73.7  | 71.0  | 73.2  | 75.9  | 76.7  | 77.2  | 71.1  | 64.3  |     |     |     |     | 111.4 |
| 50000                  | 64.6 | 64.0  | 67.2  | 74.0  | 68.9  | 70.0  | 73.1  | 73.1  | 73.0  | 69.2  | 64.0  |     |     |     |     | 111.1 |
| 63000                  | 69.1 | 66.7  | 68.0  | 64.1  | 69.3  | 69.3  | 70.0  | 69.1  | 70.4  | 66.0  | 66.4  |     |     |     |     | 111.0 |
| 60000                  | 72.5 | 69.6  | 71.7  | 69.3  | 69.9  | 70.0  | 71.3  | 71.1  | 70.4  | 70.0  | 69.0  |     |     |     |     | 117.0 |
| OVERALL MEAN           |      |       |       |       |       |       |       |       |       |       |       |     |     |     |     |       |
| OVERALL CALCULATED     | 64.2 | 67.7  | 69.1  | 63.4  | 63.1  | 66.3  | 67.0  | 69.1  | 69.0  | 64.4  | 60.7  |     |     |     |     | 120.0 |
| FACT                   | 66.6 | 101.0 | 103.3 | 106.4 | 100.4 | 109.5 | 110.0 | 112.2 | 111.0 | 107.0 | 103.0 |     |     |     |     |       |

NOV 13 1951

FREQ. 50 63 70 74 80 90 100 110 120 130 140 150 0 0 0 0 0

|                    |                 | 50    | 63   | 70   | 74   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 0 | 0 | 0 | 0 | 0 |
|--------------------|-----------------|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|
| SIZE, INE          | 200. FT.        | 50    | 63   | 70   | 74   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 0 | 0 | 0 | 0 | 0 |
| VEHICLE            | 100-96 H        | 100   | 41.7 | 46.3 | 53.7 | 54.3 | 53.4 | 52.7 | 50.7 | 45.9 | 45.4 | 47.5 | 46.2 |   |   |   |   |   |
| COMPIC             | 22              | 125   | 44.9 | 45.3 | 46.8 | 46.0 | 49.3 | 46.9 | 46.7 | 46.8 | 45.7 | 44.9 | 44.2 |   |   |   |   |   |
| LCC                | SCHENECTADY     | 160   | 41.3 | 43.9 | 44.5 | 45.2 | 45.5 | 45.8 | 46.8 | 47.4 | 47.1 | 47.5 | 44.5 |   |   |   |   |   |
| DATE               | 12/13/74        | 250   | 47.0 | 44.1 | 45.2 | 44.9 | 48.6 | 49.2 | 50.0 | 50.6 | 49.7 | 49.5 | 46.2 |   |   |   |   |   |
| RUMI               | 40/7            | 315   | 44.5 | 46.7 | 48.5 | 49.9 | 50.2 | 50.8 | 49.8 | 49.6 | 49.0 | 47.5 | 43.5 |   |   |   |   |   |
| TYPE               | 460             | 47.7  | 46.3 | 47.4 | 48.1 | 48.9 | 49.9 | 50.0 | 49.7 | 50.3 | 48.4 | 46.8 | 41.5 |   |   |   |   |   |
| BAR                | 20.9 HG         | 500   | 42.9 | 45.5 | 46.1 | 47.8 | 49.1 | 49.4 | 50.3 | 49.4 | 47.9 | 45.8 | 40.2 |   |   |   |   |   |
|                    | (101000. h/m2)  | 630   | 44.5 | 47.4 | 47.7 | 51.2 | 52.2 | 52.0 | 53.0 | 52.5 | 51.3 | 48.7 | 41.0 |   |   |   |   |   |
| TAMM               | 48. DEG F       | 830   | 47.0 | 48.7 | 51.4 | 51.8 | 53.4 | 53.5 | 54.8 | 54.4 | 52.5 | 48.4 | 41.0 |   |   |   |   |   |
|                    | (1202. DEG K)   | 1000  | 44.5 | 48.1 | 50.5 | 51.4 | 52.7 | 53.3 | 54.4 | 54.7 | 53.7 | 48.4 | 39.9 |   |   |   |   |   |
| TAREY              | 44. DEG F       | 1250  | 46.9 | 52.2 | 54.1 | 56.6 | 58.4 | 60.0 | 61.0 | 61.0 | 60.0 | 58.9 | 44.5 |   |   |   |   |   |
|                    | (1200. DEG K)   | 1600  | 46.7 | 51.3 | 53.7 | 57.2 | 59.0 | 60.8 | 60.8 | 60.3 | 58.7 | 51.8 | 41.0 |   |   |   |   |   |
| MACT               | 6.39 CF/M3      | 2000  | 46.9 | 51.6 | 55.5 | 54.8 | 61.1 | 61.1 | 60.8 | 59.8 | 56.9 | 50.5 | 40.7 |   |   |   |   |   |
|                    | (.00039 KG/M3)  | 2500  | 49.5 | 55.2 | 58.3 | 61.7 | 63.4 | 64.0 | 64.6 | 64.1 | 62.7 | 53.7 | 44.2 |   |   |   |   |   |
| NFA                | 5520. RPM       | 3150  | 44.1 | 54.2 | 57.0 | 60.7 | 63.2 | 63.6 | 63.9 | 63.4 | 62.7 | 52.8 | 43.3 |   |   |   |   |   |
|                    | ( 570. RAD/SEC) | 4000  | 46.8 | 53.9 | 56.7 | 60.5 | 62.5 | 63.2 | 64.0 | 64.3 | 60.4 | 52.7 | 41.3 |   |   |   |   |   |
| NFK                | 5570. RPM       | 5000  | 44.7 | 51.6 | 55.4 | 59.0 | 60.9 | 61.9 | 61.9 | 61.7 | 59.1 | 46.9 | 38.5 |   |   |   |   |   |
|                    | ( 584. RAD/SEC) | 6350  | 43.5 | 49.4 | 53.1 | 56.9 | 58.6 | 59.6 | 60.1 | 60.3 | 57.0 | 47.5 | 35.9 |   |   |   |   |   |
| NFD                | 8023. RPM       | 8000  | 40.0 | 46.4 | 50.6 | 54.8 | 55.9 | 57.4 | 57.6 | 57.4 | 54.0 | 44.5 | 31.3 |   |   |   |   |   |
|                    | ( 924. RAD/SEC) | 10000 | 37.3 | 43.6 | 48.0 | 52.1 | 53.9 | 55.6 | 55.9 | 54.9 | 52.4 | 41.7 | 27.2 |   |   |   |   |   |
| NO. OF BLADES      | 15              | 12500 | 34.6 | 39.9 | 43.9 | 46.1 | 50.9 | 52.2 | 52.2 | 51.4 | 47.7 | 35.8 | 19.4 |   |   |   |   |   |
| FAN TIP SPEED      | 16000           | 20000 | 27.3 | 33.2 | 37.0 | 42.0 | 43.7 | 45.5 | 45.2 | 45.2 | 39.6 | 24.9 | 5.6  |   |   |   |   |   |
|                    | 482. FT/SEC     | 25000 | 13.8 | 18.1 | 22.8 | 28.1 | 29.4 | 29.8 | 29.1 | 28.7 | 19.5 | 0.1  |      |   |   |   |   |   |
|                    | 31500           | 40000 | 0.9  | 7.4  | 11.9 | 19.4 | 18.4 | 19.0 | 17.2 | 12.8 | 2.7  |      |      |   |   |   |   |   |
|                    | 50000           | 63000 |      |      |      | 4.4  | 1.1  | 0.8  |      |      |      |      |      |   |   |   |   |   |
|                    | 80000           |       |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| OVERALL CALCULATED |                 |       | 58.6 | 63.3 | 68.2 | 69.3 | 71.1 | 71.8 | 72.2 | 71.9 | 69.9 | 63.1 | 59.7 |   |   |   |   |   |
| PNEB               |                 |       | 71.3 | 76.8 | 79.6 | 82.8 | 84.8 | 85.4 | 85.8 | 85.7 | 83.6 | 78.8 | 68.6 |   |   |   |   |   |

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|                           | 56     | 66     | 76     | 86     | 96     | 106    | 116    | 126    | 136    | 146    | 156   | 166 | 176 | 186 | 196 | 206 | PAI   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|-----|-----|-------|
|                           | (1.02) | (1.14) | (1.30) | (1.53) | (1.78) | (2.05) | (2.29) | (2.42) | (2.60) | (2.70) | 0     | 0   | 0   | 0   | 0   | 0   | 1     |
| RADIAL 17. FT.            | 100    | 05.0   | 71.5   | 75.9   | 77.0   | 76.0   | 75.4   | 69.9   | 71.9   | 75.4   | 77.4  |     |     |     |     |     | 105.0 |
| VEHICLE (5. M)            | 125    | 06.0   | 67.3   | 70.7   | 66.1   | 69.3   | 69.7   | 71.2   | 73.2   | 73.7   | 79.4  |     |     |     |     |     | 104.6 |
| CONFIG N=55               | 150    | 05.0   | 65.8   | 68.2   | 67.4   | 68.0   | 72.7   | 71.2   | 73.7   | 75.4   | 76.1  |     |     |     |     |     | 104.7 |
| LOC SCHENECTADY           | 200    | 05.3   | 65.5   | 68.4   | 67.9   | 71.3   | 75.6   | 74.2   | 79.7   | 77.7   | 77.9  |     |     |     |     |     | 106.8 |
| DATE 1/8/75               | 250    | 07.3   | 68.0   | 69.2   | 70.6   | 72.9   | 74.7   | 73.7   | 74.4   | 75.7   | 76.1  |     |     |     |     |     | 106.9 |
| RUN 43/4                  | 310    | 06.0   | 69.2   | 70.4   | 72.1   | 73.0   | 74.9   | 74.2   | 74.9   | 76.2   | 75.9  |     |     |     |     |     | 107.1 |
| TAPE                      | 400    | 06.0   | 67.7   | 68.9   | 71.2   | 72.8   | 73.7   | 74.2   | 75.4   | 74.9   | 75.0  |     |     |     |     |     | 106.4 |
| BAR 29.9 MG               | 500    | 05.3   | 66.8   | 67.9   | 70.7   | 73.3   | 74.9   | 73.4   | 74.2   | 75.2   | 73.1  |     |     |     |     |     | 107.6 |
| (10000. N/M2)             | 600    | 06.1   | 69.6   | 71.4   | 73.2   | 75.1   | 76.4   | 77.2   | 78.2   | 78.0   | 74.9  |     |     |     |     |     | 105.3 |
| TANK 51. DEG F            | 800    | 70.1   | 71.0   | 74.9   | 74.2   | 76.1   | 79.4   | 78.4   | 79.2   | 78.4   | 74.4  |     |     |     |     |     | 116.2 |
| (204. DEG K)              | 1000   | 06.0   | 70.7   | 72.9   | 73.9   | 76.0   | 78.9   | 79.4   | 80.7   | 76.2   | 73.9  |     |     |     |     |     | 110.0 |
| TPET 47. DEG F            | 1250   | 73.4   | 76.6   | 77.9   | 81.2   | 83.8   | 86.7   | 88.7   | 89.2   | 85.2   | 86.9  |     |     |     |     |     | 119.1 |
| (201. DEG K)              | 1500   | 72.9   | 76.3   | 76.7   | 81.0   | 84.6   | 86.9   | 86.7   | 86.9   | 83.2   | 77.4  |     |     |     |     |     | 117.0 |
| MACT 7.25 CM/M3           | 2000   | 73.1   | 76.1   | 77.9   | 81.3   | 84.1   | 85.6   | 85.1   | 85.4   | 81.7   | 76.1  |     |     |     |     |     | 116.6 |
| (.00725 KG/M3)            | 2500   | 82.4   | 84.6   | 87.9   | 89.3   | 91.4   | 92.6   | 91.8   | 91.7   | 94.5   | 87.9  |     |     |     |     |     | 124.2 |
| NFA 5487. RPM             | 3100   | 77.9   | 81.1   | 83.4   | 84.6   | 89.3   | 90.6   | 89.6   | 94.9   | 89.9   | 83.8  |     |     |     |     |     | 122.7 |
| (574. RAD/SEC)            | 4000   | 76.3   | 83.0   | 83.0   | 86.5   | 90.8   | 91.5   | 93.6   | 91.3   | 85.9   | 81.3  |     |     |     |     |     | 123.0 |
| NFA 5530. RPM             | 5000   | 73.7   | 78.2   | 84.5   | 85.0   | 89.7   | 91.9   | 90.7   | 94.5   | 85.9   | 80.2  |     |     |     |     |     | 122.6 |
| (578. RAD/SEC)            | 6000   | 72.6   | 76.7   | 79.6   | 84.4   | 90.7   | 91.2   | 91.7   | 92.3   | 85.6   | 81.6  |     |     |     |     |     | 122.5 |
| NFA 8023. RPM             | 8000   | 74.4   | 74.4   | 78.2   | 83.6   | 87.6   | 88.2   | 88.9   | 88.9   | 84.0   | 79.1  |     |     |     |     |     | 119.6 |
| (924. RAD/SEC)            | 10000  | 86.6   | 72.7   | 76.4   | 82.1   | 86.7   | 87.7   | 88.1   | 89.2   | 83.9   | 77.8  |     |     |     |     |     | 116.3 |
| NO. OF BLADES 15          | 12500  | 67.6   | 70.6   | 74.7   | 80.4   | 84.8   | 86.6   | 86.2   | 87.9   | 84.1   | 78.6  |     |     |     |     |     | 116.4 |
| FAN TIP SPEED 478. FT/SEC | 16000  | 65.0   | 67.2   | 71.0   | 76.5   | 81.7   | 83.8   | 85.0   | 84.7   | 78.4   | 73.4  |     |     |     |     |     | 115.9 |
|                           | 20000  | 63.5   | 65.8   | 69.2   | 75.1   | 80.1   | 82.5   | 84.1   | 84.9   | 78.2   | 71.9  |     |     |     |     |     | 115.1 |
|                           | 25000  | 63.2   | 65.1   | 67.8   | 72.9   | 77.1   | 79.6   | 81.2   | 81.9   | 75.0   | 69.3  |     |     |     |     |     | 112.6 |
|                           | 31500  | 62.9   | 63.9   | 67.5   | 71.6   | 77.0   | 78.6   | 79.4   | 80.0   | 74.4   | 67.4  |     |     |     |     |     | 112.0 |
|                           | 40000  | 64.8   | 63.9   | 66.0   | 69.8   | 74.1   | 75.9   | 77.1   | 77.5   | 72.2   | 63.4  |     |     |     |     |     | 111.9 |
|                           | 50000  | 66.4   | 65.3   | 67.8   | 68.6   | 71.7   | 74.0   | 73.4   | 73.8   | 70.9   | 61.6  |     |     |     |     |     | 111.0 |
|                           | 63000  | 69.4   | 66.6   | 69.8   | 68.6   | 70.5   | 71.1   | 69.4   | 69.6   | 68.9   | 61.6  |     |     |     |     |     | 112.2 |
|                           | 80000  | 73.2   | 69.4   | 72.0   | 65.6   | 71.9   | 72.1   | 71.3   | 70.9   | 71.6   | 62.7  |     |     |     |     |     | 116.6 |
| OVERALL CALCULATED        |        | 87.1   | 90.2   | 92.5   | 94.8   | 99.4   | 100.7  | 100.7  | 103.7  | 96.4   | 93.2  |     |     |     |     |     | 132.6 |
| PAID                      |        | 101.3  | 104.2  | 106.6  | 108.1  | 112.3  | 113.8  | 113.8  | 117.6  | 112.6  | 107.6 |     |     |     |     |     |       |

MODEL SOUND PRESSURE LEVELS (50, 60, 70 PERCENT REL. HUM. 60%)

ANGLES FROM TAPE IN DEGREES (AND RADIANS)

|                    | 50.    | 60.    | 70.    | 80.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|
| PREC.              | (1.02) | (1.14) | (1.30) | (1.53) | (1.80) | (2.10) | (2.24) | (2.42) | (2.60) | (2.70) | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  |
| SIDELINE 200. FT.  | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50  | 50  | 50  | 50  | 50  | 50  |
| ( 00.90 M)         | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100 | 100 | 100 | 100 | 100 | 100 |
| VEHICLE R-55       | 42.7   | 49.3   | 54.2   | 58.1   | 54.3   | 52.7   | 45.1   | 40.0   | 47.0   | 48.6   |     |     |     |     |     |     |
| CONFIG 27          | 45.0   | 44.9   | 40.0   | 40.5   | 47.2   | 40.9   | 47.3   | 47.7   | 45.9   | 43.0   |     |     |     |     |     |     |
| LOC SCHELECTADY    | 41.0   | 43.3   | 44.3   | 43.7   | 45.0   | 47.0   | 47.2   | 40.1   | 47.5   | 44.3   |     |     |     |     |     |     |
| DATE 1/8/75        | 42.0   | 43.0   | 44.4   | 40.1   | 49.0   | 52.5   | 50.1   | 50.0   | 49.0   | 45.0   |     |     |     |     |     |     |
| HUM 43/4           | 43.9   | 45.4   | 47.1   | 49.7   | 50.2   | 51.6   | 49.5   | 40.0   | 47.4   | 43.0   |     |     |     |     |     |     |
| TAPE               | 44.3   | 40.0   | 40.2   | 50.2   | 50.0   | 51.0   | 49.0   | 49.0   | 47.7   | 43.3   |     |     |     |     |     |     |
| BAR 24.9 HG        | 42.9   | 45.0   | 40.7   | 49.1   | 50.3   | 51.4   | 49.0   | 49.3   | 40.3   | 46.0   |     |     |     |     |     |     |
| (00000. N/M2)      | 41.0   | 43.9   | 45.0   | 40.5   | 49.7   | 50.0   | 40.9   | 47.9   | 40.0   | 46.0   |     |     |     |     |     |     |
| TANM 51. DEG F     | 44.3   | 40.0   | 49.9   | 51.9   | 52.3   | 55.0   | 52.5   | 51.0   | 40.9   | 41.0   |     |     |     |     |     |     |
| (204. DEG K)       | 40.1   | 40.7   | 50.6   | 51.0   | 53.2   | 55.0   | 54.0   | 54.0   | 40.9   | 40.0   |     |     |     |     |     |     |
| TNET 47. DEG F     | 44.3   | 47.5   | 50.2   | 51.4   | 53.0   | 55.2   | 54.2   | 53.9   | 44.7   | 36.7   |     |     |     |     |     |     |
| (201. DEG K)       | 49.1   | 53.4   | 55.1   | 50.0   | 62.7   | 64.0   | 63.5   | 62.2   | 55.4   | 40.3   |     |     |     |     |     |     |
| NACT 7.24 CM/M3    | 40.4   | 52.7   | 55.7   | 50.2   | 61.3   | 62.0   | 61.3   | 59.7   | 59.1   | 42.3   |     |     |     |     |     |     |
| (.00725 KG/M3)     | 40.4   | 52.3   | 54.7   | 50.3   | 60.0   | 61.3   | 59.0   | 57.0   | 51.2   | 40.9   |     |     |     |     |     |     |
| NFA 5407. RPM      | 57.5   | 60.9   | 64.5   | 63.2   | 68.2   | 60.1   | 65.0   | 71.9   | 63.7   | 51.7   |     |     |     |     |     |     |
| ( 574. RAD/SEC)    | 50.0   | 50.0   | 50.0   | 61.2   | 65.4   | 65.0   | 63.4   | 60.7   | 50.1   | 40.9   |     |     |     |     |     |     |
| NFR 5530. RPM      | 47.7   | 53.3   | 50.2   | 60.9   | 65.1   | 60.4   | 63.0   | 63.3   | 50.2   | 41.3   |     |     |     |     |     |     |
| ( 579. RAD/SEC)    | 45.9   | 51.0   | 54.0   | 59.0   | 65.3   | 64.0   | 63.0   | 62.0   | 51.2   | 40.0   |     |     |     |     |     |     |
| NFD 8423. RPM      | 42.2   | 47.5   | 54.0   | 57.7   | 61.1   | 64.0   | 50.0   | 56.9   | 47.7   | 30.0   |     |     |     |     |     |     |
| ( 824. RAD/SEC)    | 38.7   | 44.2   | 40.7   | 54.0   | 50.5   | 50.4   | 50.0   | 54.9   | 44.2   | 20.0   |     |     |     |     |     |     |
| NO. OF BLADES 15   | 35.0   | 39.7   | 44.0   | 50.0   | 54.3   | 54.9   | 54.1   | 50.1   | 30.3   | 20.0   |     |     |     |     |     |     |
| PAN TIP SPLD       | 20.2   | 32.5   | 37.4   | 43.3   | 47.4   | 47.9   | 40.2   | 41.3   | 27.4   | 7.0    |     |     |     |     |     |     |
| 470. FT/SEC        | 20000  | 21.0   | 25.0   | 30.7   | 37.2   | 40.0   | 41.1   | 39.1   | 34.1   | 17.0   |     |     |     |     |     |     |
|                    | 25000  | 12.0   | 17.0   | 22.2   | 20.2   | 30.7   | 30.5   | 27.3   | 20.1   | 1.0    |     |     |     |     |     |     |
|                    | 31500  | 0.5    | 5.0    | 11.9   | 17.0   | 20.1   | 10.1   | 13.2   | 4.0    |        |     |     |     |     |     |     |
|                    | 40000  |        |        |        | 0.4    | 1.0    |        |        |        |        |     |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |
| OVERALL CALCULATED | 61.7   | 65.9   | 60.7   | 70.7   | 74.7   | 75.1   | 73.5   | 75.1   | 67.0   | 57.4   |     |     |     |     |     |     |
| PRED               | 70.1   | 60.0   | 63.2   | 64.4   | 60.3   | 60.7   | 67.3   | 60.5   | 61.7   | 70.0   |     |     |     |     |     |     |

| FREQ.              | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.  | 0.  | 0.  | 0.  | 0.  | PdL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|-------|
|                    | (1.02) | (1.10) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.  | (0. | (0. | (0. | (0. | (0. |       |
| RADIAL 17. FT.     |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
| ( 5. M)            |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
| VEHICLE R-55       | 100    | 70.8   | 74.0   | 71.9   | 74.6   | 76.0   | 75.0   | 75.7   | 74.9   | 73.4   | 77.9   | 80.0 |     |     |     |     |     | 109.2 |
| CONFIG FOR 27      | 120    | 70.3   | 70.3   | 71.9   | 71.1   | 73.3   | 72.5   | 73.7   | 75.9   | 75.7   | 77.7   | 80.3 |     |     |     |     |     | 108.2 |
| LOC SCHEMECTADY    | 200    | 68.0   | 69.3   | 69.4   | 70.6   | 70.0   | 71.5   | 73.2   | 75.9   | 77.2   | 79.7   | 80.6 |     |     |     |     |     | 108.4 |
| DATE 1/8/75        | 250    | 70.0   | 71.0   | 72.4   | 73.9   | 74.3   | 74.8   | 76.7   | 77.7   | 78.2   | 80.7   | 82.1 |     |     |     |     |     | 109.9 |
| RUN 43/5           | 315    | 71.5   | 72.5   | 73.7   | 75.1   | 75.8   | 76.5   | 79.4   | 79.4   | 78.7   | 80.2   | 80.3 |     |     |     |     |     | 110.1 |
| TAPE               | 400    | 70.3   | 70.7   | 71.7   | 73.2   | 74.0   | 75.0   | 78.2   | 78.2   | 77.7   | 78.7   | 78.3 |     |     |     |     |     | 106.0 |
| BAR 20.9 HG        | 500    | 68.1   | 69.3   | 71.2   | 73.4   | 74.3   | 74.8   | 77.4   | 78.7   | 77.2   | 78.2   | 77.1 |     |     |     |     |     | 109.0 |
| (100000. N/M2)     | 630    | 70.4   | 72.0   | 73.4   | 76.2   | 76.3   | 77.6   | 79.2   | 78.7   | 80.4   | 80.7   | 78.1 |     |     |     |     |     | 111.4 |
| TAMB 50. DEG F     | 800    | 72.1   | 73.8   | 75.4   | 76.2   | 76.6   | 78.3   | 79.7   | 81.2   | 81.2   | 79.9   | 77.8 |     |     |     |     |     | 112.1 |
| (263. DEG K)       | 1000   | 71.4   | 73.2   | 75.2   | 75.9   | 77.3   | 78.0   | 80.4   | 81.7   | 82.4   | 80.2   | 78.8 |     |     |     |     |     | 112.5 |
| TMBT 46. DEG F     | 1250   | 73.1   | 75.8   | 77.2   | 79.2   | 81.1   | 82.8   | 84.4   | 85.4   | 85.7   | 82.2   | 78.3 |     |     |     |     |     | 115.9 |
| (201. DEG K)       | 1600   | 80.9   | 84.0   | 85.7   | 89.3   | 90.4   | 91.4   | 92.4   | 92.4   | 91.9   | 90.0   | 81.8 |     |     |     |     |     | 123.7 |
| MACT 6.96 CM/M3    | 2000   | 78.6   | 79.8   | 80.0   | 84.3   | 85.6   | 87.1   | 89.1   | 89.1   | 88.2   | 83.2   | 78.1 |     |     |     |     |     | 118.8 |
| (.00096 KG/M3)     | 2500   | 78.1   | 80.8   | 82.0   | 85.8   | 87.9   | 90.0   | 90.9   | 90.9   | 91.4   | 85.2   | 81.0 |     |     |     |     |     | 121.9 |
| NFA 6266. RPM      | 3150   | 82.6   | 85.3   | 86.4   | 91.6   | 91.4   | 93.6   | 96.1   | 96.1   | 105.7  | 96.0   | 96.0 |     |     |     |     |     | 130.7 |
| ( 656. RAD/SEC)    | 4000   | 77.0   | 82.3   | 85.3   | 89.5   | 90.0   | 93.3   | 94.0   | 93.2   | 93.3   | 87.2   | 83.8 |     |     |     |     |     | 124.8 |
| NFA 6321. RPM      | 5000   | 80.7   | 86.5   | 92.2   | 96.0   | 93.1   | 100.0  | 97.2   | 94.7   | 94.5   | 89.4   | 84.4 |     |     |     |     |     | 129.0 |
| ( 662. RAD/SEC)    | 6300   | 77.3   | 81.8   | 85.2   | 89.1   | 90.2   | 93.2   | 94.9   | 94.7   | 95.8   | 88.3   | 84.0 |     |     |     |     |     | 129.7 |
| NFB 8823. RPM      | 8000   | 78.9   | 80.2   | 84.9   | 87.6   | 89.4   | 92.9   | 92.7   | 93.9   | 92.1   | 87.0   | 82.1 |     |     |     |     |     | 124.2 |
| ( 924. RAD/SEC)    | 10000  | 74.1   | 78.4   | 83.7   | 87.6   | 90.6   | 95.9   | 93.2   | 93.4   | 93.2   | 87.8   | 82.8 |     |     |     |     |     | 128.4 |
| NO. OF BLADES 15   | 12500  | 72.1   | 75.8   | 80.2   | 85.1   | 87.8   | 91.1   | 92.0   | 93.0   | 91.2   | 85.4   | 80.4 |     |     |     |     |     | 123.2 |
| FAN TIP SPEED      | 16000  | 68.8   | 72.5   | 76.8   | 81.8   | 83.7   | 87.2   | 89.3   | 90.3   | 88.0   | 82.2   | 77.7 |     |     |     |     |     | 126.4 |
| ( 547. FT/SEC)     | 20000  | 67.0   | 71.1   | 75.7   | 79.7   | 82.0   | 84.8   | 87.3   | 90.1   | 87.1   | 81.5   | 76.4 |     |     |     |     |     | 119.0 |
|                    | 25000  | 65.3   | 68.8   | 73.4   | 77.9   | 80.1   | 82.9   | 85.2   | 87.2   | 85.3   | 79.8   | 73.7 |     |     |     |     |     | 118.0 |
|                    | 31500  | 65.8   | 67.9   | 71.8   | 76.7   | 79.1   | 81.8   | 84.4   | 85.5   | 84.4   | 78.7   | 71.8 |     |     |     |     |     | 117.7 |
|                    | 40000  | 64.8   | 66.2   | 70.1   | 73.9   | 76.6   | 78.9   | 81.3   | 82.4   | 81.8   | 76.3   | 67.9 |     |     |     |     |     | 116.2 |
|                    | 50000  | 67.0   | 69.6   | 69.4   | 71.2   | 73.6   | 75.8   | 78.8   | 78.0   | 77.8   | 73.7   | 67.2 |     |     |     |     |     | 114.7 |
|                    | 63000  | 68.6   | 66.8   | 69.8   | 69.1   | 70.9   | 71.9   | 73.2   | 72.8   | 72.3   | 70.1   | 67.8 |     |     |     |     |     | 113.6 |
|                    | 80000  | 73.1   | 70.8   | 71.9   | 70.2   | 70.8   | 71.3   | 72.2   | 71.2   | 71.8   | 70.2   |      |     |     |     |     |     | 110.1 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
| OVERALL CALCULATED | 69.5   | 93.1   | 96.5   | 100.4  | 100.0  | 104.5  | 104.3  | 104.3  | 107.6  | 100.3  | 97.3   |      |     |     |     |     |     | 136.6 |
| PNDB               | 103.5  | 100.7  | 110.7  | 114.3  | 113.4  | 110.0  | 117.1  | 117.0  | 122.4  | 119.1  | 112.8  |      |     |     |     |     |     |       |

MODEL SOUND PRESSURE LEVELS (90, LEG. F. 70 PERCENT REL. HUM. DAT)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|   | 50.   | 60.  | 70.  | 80.  | 90.  | 100. | 110. | 120. | 135. | 150. | 0.   | 0.   | 0. | 0. | 0. | 0. |
|---|-------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|
| FREQ. (1.02)(1.19)(1.36)(1.53)(1.71)(1.88)(2.06)(2.24)(2.42)(2.60)(2.78)10. | 110.  | 126. | 143. | 160. | 177. | 194. | 211. | 228. | 245. | 262. | 0.   | 0.   | 0. | 0. | 0. | 0. |
| SIDELINE 200. FT.   | 60    |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
| ( 60.96 M)  | 100   | 47.7 | 51.0 | 50.2 | 53.1 | 54.4 | 53.0 | 53.0 | 51.1 | 40.1 | 50.3 | 49.4 |    |    |    |    |
| VEHICLE R-55  | 125   | 47.1 | 47.9 | 50.1 | 49.5 | 51.0 | 50.4 | 50.9 | 52.1 | 50.2 | 49.9 | 48.7 |    |    |    |    |
| CONFIG 40R 2-7  | 100   | 44.4 | 46.0 | 47.5 | 48.9 | 49.0 | 49.3 | 52.3 | 51.0 | 51.0 | 51.7 | 49.0 |    |    |    |    |
| LOC SCHEMECTADY   | 200   | 44.7 | 46.0 | 47.4 | 48.6 | 50.0 | 52.0 | 54.2 | 54.0 | 52.5 | 52.0 | 50.0 |    |    |    |    |
| DATE 1/8/78   | 250   | 46.0 | 48.4 | 50.3 | 52.0 | 52.3 | 52.4 | 55.0 | 53.5 | 52.3 | 51.4 | 49.0 |    |    |    |    |
| RUN 43/5  | 315   | 48.0 | 49.8 | 51.5 | 53.2 | 53.7 | 54.1 | 56.3 | 55.1 | 52.7 | 51.7 | 47.7 |    |    |    |    |
| TAPE  | 400   | 46.7 | 48.0 | 49.4 | 51.1 | 51.9 | 52.5 | 54.9 | 53.0 | 51.6 | 50.1 | 45.5 |    |    |    |    |
| BAR 29.9 MG   | 500   | 44.4 | 46.4 | 48.8 | 51.3 | 52.1 | 52.2 | 54.1 | 52.2 | 50.9 | 49.4 | 43.9 |    |    |    |    |
| ( 90880. N/M2)  | 630   | 48.5 | 49.0 | 51.0 | 53.9 | 54.0 | 54.8 | 55.7 | 58.0 | 54.0 | 51.7 | 44.0 |    |    |    |    |
| TAMB 50. DEG F  | 800   | 48.1 | 50.7 | 52.9 | 53.0 | 54.1 | 55.5 | 56.1 | 56.4 | 56.0 | 50.7 | 44.0 |    |    |    |    |
| ( 283. DEG K)   | 1000  | 47.2 | 50.0 | 52.5 | 53.4 | 54.7 | 55.0 | 56.7 | 56.7 | 55.7 | 51.7 | 42.4 |    |    |    |    |
| TNET 46. DEG F  | 1250  | 48.9 | 52.4 | 54.3 | 56.0 | 56.4 | 59.7 | 60.8 | 60.3 | 56.7 | 52.4 | 43.0 |    |    |    |    |
| ( 281. DEG K)   | 1600  | 50.4 | 50.5 | 62.7 | 66.5 | 67.3 | 68.1 | 67.3 | 67.1 | 64.7 | 59.0 | 49.0 |    |    |    |    |
| MACT 8.96 CM/MS   | 2000  | 51.9 | 54.1 | 57.7 | 61.3 | 62.6 | 63.6 | 64.0 | 63.0 | 60.7 | 52.0 | 43.0 |    |    |    |    |
| (.00096 MG/MS)  | 2500  | 51.2 | 56.0 | 59.3 | 62.7 | 64.7 | 66.4 | 66.1 | 65.1 | 63.7 | 54.4 | 45.4 |    |    |    |    |
| MFA 6200. RPM   | 3150  | 57.4 | 61.1 | 62.7 | 64.4 | 67.9 | 69.0 | 71.3 | 69.9 | 77.5 | 64.0 | 57.1 |    |    |    |    |
| ( 656. RAD/SEC)   | 4000  | 51.3 | 57.0 | 61.2 | 65.7 | 68.7 | 68.9 | 68.7 | 66.5 | 64.8 | 55.6 | 44.0 |    |    |    |    |
| MFK 6321. RPM   | 5000  | 54.7 | 61.5 | 67.9 | 72.0 | 68.9 | 76.3 | 71.0 | 67.7 | 65.3 | 50.7 | 45.5 |    |    |    |    |
| ( 662. RAD/SEC)   | 6300  | 50.4 | 56.1 | 60.1 | 64.4 | 65.3 | 67.0 | 66.0 | 66.0 | 65.8 | 54.2 | 43.0 |    |    |    |    |
| MFB 6623. RPM   | 8000  | 47.0 | 53.3 | 58.0 | 61.7 | 63.4 | 66.3 | 65.1 | 64.0 | 60.1 | 50.7 | 37.0 |    |    |    |    |
| ( 924. RAD/SEC)   | 10000 | 44.2 | 49.9 | 56.0 | 60.3 | 63.2 | 67.0 | 63.9 | 62.1 | 58.9 | 48.2 | 33.7 |    |    |    |    |
| NO. OF BLADES 15  | 12500 | 39.5 | 45.0 | 50.3 | 55.0 | 58.1 | 60.6 | 60.2 | 58.0 | 53.4 | 41.0 | 29.1 |    |    |    |    |
| FAN TIP SPEED   | 10000 | 31.7 | 37.7 | 43.0 | 48.4 | 50.4 | 53.0 | 53.4 | 51.4 | 44.0 | 31.1 | 11.8 |    |    |    |    |
| 547. FT/SEC   | 20000 | 24.5 | 31.1 | 37.3 | 41.0 | 43.9 | 46.0 | 45.9 | 45.1 | 38.3 | 28.0 |      |    |    |    |    |
|   | 25000 | 16.7 | 21.0 | 26.0 | 33.2 | 35.1 | 36.8 | 36.0 | 33.4 | 23.9 |      |      |    |    |    |    |
|   | 31500 | 8.0  | 9.9  | 10.2 | 22.1 | 24.1 | 24.9 | 23.9 | 18.7 | 7.0  |      |      |    |    |    |    |
|   | 40000 |      |      |      | 6.8  | 6.7  | 6.4  | 3.0  |      |      |      |      |    |    |    |    |
|   | 50000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
|   | 63000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
|   | 80000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
| OVERALL CALCULATED  | PHUG  | 64.0 | 68.5 | 72.2 | 76.2 | 76.1 | 79.3 | 78.2 | 76.8 | 76.0 | 68.9 | 61.2 |    |    |    |    |
|   | PHUG  | 70.1 | 82.3 | 86.0 | 88.5 | 89.4 | 93.0 | 92.1 | 98.0 | 94.1 | 83.0 | 75.0 |    |    |    |    |

| PARAMETER           | FREQ.  | ANGLE  |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      | PWL  |      |       |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|------|------|------|------|------|------|-------|
|                     |        | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.  | 0.   | 0.   | 0.   | 0.   |      | 0.   |       |
|                     |        | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.05) | (2.24) | (2.42) | (2.60) | (2.78) | 10. | 100. | 100. | 100. | 100. | 100. | 100. |       |
| RADIAL 17. FT.      | 50     |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |      |      |       |
| ( 5. M)             | 63     |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |      |      |       |
| VEHICLE R-55        | 80     |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |      |      |       |
| CONFIG 104-27       | 100    | 70.7   | 73.0   | 73.9   | 72.9   | 73.6   | 73.3   | 73.2   | 73.2   | 70.9   | 81.7   | 84.0   |     |      |      |      |      |      |      | 110.0 |
| LOC SCHEMECTADY     | 125    | 75.0   | 80.8   | 81.2   | 79.1   | 80.3   | 77.3   | 75.7   | 77.4   | 79.9   | 81.7   | 84.3   |     |      |      |      |      |      |      | 113.0 |
| DATE 1/8/75         | 100    | 72.2   | 72.8   | 72.9   | 74.1   | 74.3   | 74.3   | 76.7   | 78.2   | 80.7   | 83.2   | 84.3   |     |      |      |      |      |      |      | 111.0 |
| RUN 43/6            | 200    | 72.7   | 70.7   | 72.4   | 73.9   | 75.3   | 77.5   | 78.4   | 80.4   | 81.7   | 84.7   | 89.1   |     |      |      |      |      |      |      | 113.0 |
| TAPE                | 250    | 74.7   | 74.5   | 75.9   | 77.1   | 77.8   | 76.5   | 79.9   | 80.2   | 81.9   | 83.9   | 84.0   |     |      |      |      |      |      |      | 113.0 |
| BAR 29.9 MG         | 315    | 75.7   | 76.2   | 76.7   | 78.1   | 78.3   | 79.5   | 80.7   | 80.9   | 82.2   | 83.7   | 84.1   |     |      |      |      |      |      |      | 113.0 |
| (100000. N/M2)      | 400    | 74.9   | 74.0   | 75.2   | 76.2   | 76.0   | 78.0   | 79.2   | 79.9   | 80.9   | 82.4   | 82.8   |     |      |      |      |      |      |      | 112.4 |
| TAMB 50. DEG F      | 500    | 72.5   | 72.3   | 73.9   | 75.9   | 76.8   | 78.0   | 79.4   | 79.4   | 80.4   | 81.7   | 81.1   |     |      |      |      |      |      |      | 112.4 |
| (1203. DEG K)       | 630    | 74.3   | 74.0   | 76.2   | 76.7   | 79.1   | 80.0   | 81.9   | 82.8   | 83.2   | 83.0   | 81.1   |     |      |      |      |      |      |      | 111.0 |
| THET 40. DEG F      | 800    | 77.1   | 76.9   | 77.7   | 78.7   | 79.1   | 80.0   | 82.9   | 83.4   | 83.7   | 82.7   | 81.1   |     |      |      |      |      |      |      | 114.0 |
| (1281. DEG K)       | 1000   | 74.6   | 75.5   | 77.7   | 76.4   | 79.0   | 81.0   | 83.2   | 84.4   | 84.2   | 81.9   | 79.3   |     |      |      |      |      |      |      | 115.0 |
| MACT 6.06 G/M3      | 1250   | 79.4   | 77.9   | 78.9   | 80.7   | 82.6   | 84.3   | 85.9   | 86.7   | 86.2   | 82.8   | 79.6   |     |      |      |      |      |      |      | 117.2 |
| (.00000 KG/M3)      | 1600   | 79.9   | 83.8   | 86.2   | 90.0   | 92.1   | 94.6   | 94.8   | 92.2   | 91.9   | 87.0   | 83.1   |     |      |      |      |      |      |      | 120.1 |
| NFA 7094. RPM       | 2000   | 81.0   | 84.0   | 86.9   | 91.0   | 91.6   | 94.9   | 95.6   | 93.6   | 92.7   | 87.5   | 84.1   |     |      |      |      |      |      |      | 125.0 |
| ( 739. RAD/SEC)     | 2500   | 78.6   | 82.8   | 84.4   | 88.8   | 89.7   | 91.4   | 92.9   | 92.8   | 91.2   | 88.0   | 82.1   |     |      |      |      |      |      |      | 125.0 |
| NPK 7116. RPM       | 3150   | 80.0   | 85.6   | 88.9   | 92.6   | 94.4   | 94.3   | 97.1   | 98.0   | 103.7  | 93.7   | 90.0   |     |      |      |      |      |      |      | 123.5 |
| ( 745. RAD/SEC)     | 4000   | 81.5   | 86.0   | 89.5   | 93.8   | 95.1   | 95.8   | 98.0   | 97.0   | 103.6  | 94.4   | 90.7   |     |      |      |      |      |      |      | 129.0 |
| NFB 8623. RPM       | 5000   | 83.2   | 91.7   | 94.0   | 97.0   | 102.8  | 108.0  | 108.2  | 100.2  | 98.5   | 91.8   | 87.1   |     |      |      |      |      |      |      | 130.4 |
| ( 924. RAD/SEC)     | 6300   | 80.2   | 85.8   | 88.4   | 93.6   | 98.4   | 98.0   | 97.7   | 99.0   | 98.6   | 91.8   | 86.7   |     |      |      |      |      |      |      | 133.3 |
| NO. OF BLADES 18    | 8000   | 79.4   | 83.4   | 87.7   | 92.8   | 94.8   | 94.9   | 96.7   | 98.4   | 94.4   | 90.8   | 85.8   |     |      |      |      |      |      |      | 128.0 |
| FAN TIP SPEED 10000 | 10000  | 78.4   | 82.7   | 87.7   | 94.1   | 93.8   | 96.2   | 96.7   | 97.4   | 95.0   | 89.8   | 85.5   |     |      |      |      |      |      |      | 128.0 |
| (10. FT/SEC)        | 20000  | 76.8   | 80.4   | 84.7   | 90.4   | 92.0   | 93.8   | 95.3   | 96.5   | 93.4   | 87.9   | 83.4   |     |      |      |      |      |      |      | 126.2 |
|                     | 25000  | 74.5   | 77.0   | 81.3   | 86.8   | 88.7   | 90.8   | 93.1   | 94.3   | 90.2   | 85.2   | 80.7   |     |      |      |      |      |      |      | 126.0 |
|                     | 31500  | 74.0   | 75.3   | 80.2   | 84.4   | 87.0   | 89.3   | 92.3   | 93.9   | 90.1   | 84.8   | 79.7   |     |      |      |      |      |      |      | 124.1 |
|                     | 40000  | 73.7   | 74.1   | 78.1   | 82.9   | 85.1   | 87.7   | 90.4   | 92.2   | 89.0   | 83.3   | 77.7   |     |      |      |      |      |      |      | 123.8 |
|                     | 50000  | 72.7   | 71.9   | 76.0   | 81.9   | 84.1   | 86.6   | 88.4   | 90.7   | 87.9   | 82.4   | 75.6   |     |      |      |      |      |      |      | 122.8 |
|                     | 63000  | 73.3   | 69.9   | 74.3   | 79.4   | 81.1   | 83.9   | 86.0   | 87.1   | 84.0   | 79.3   | 76.9   |     |      |      |      |      |      |      | 120.7 |
|                     | 80000  | 75.7   | 67.6   | 72.4   | 78.7   | 78.1   | 80.5   | 83.3   | 83.2   | 80.0   | 77.2   | 76.0   |     |      |      |      |      |      |      | 117.5 |
|                     | 100000 | 79.0   | 66.7   | 70.9   | 71.1   | 73.1   | 75.4   | 77.5   | 75.6   | 74.8   | 72.6   | 68.6   |     |      |      |      |      |      |      | 117.0 |
| OVERALL MEASURED    | 80000  | 83.1   | 78.2   | 71.9   | 70.7   | 71.3   | 72.3   | 73.0   | 72.7   | 71.8   | 71.8   | 70.8   |     |      |      |      |      |      |      | 121.0 |
| OVERALL CALCULATED  |        | 92.7   | 94.5   | 99.3   | 103.4  | 106.4  | 106.2  | 107.5  | 107.9  | 106.0  | 102.0  | 96.8   |     |      |      |      |      |      |      | 121.0 |
| PWB                 |        | 105.0  | 110.7  | 113.1  | 119.8  | 120.3  | 119.2  | 120.0  | 120.0  | 122.3  | 115.0  | 112.0  |     |      |      |      |      |      |      | 120.4 |

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OF POOR QUALITY

|                        | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.  | 0.  | 0.   | 0.   | 0.   |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|------|------|------|
| PRGJ.                  | (1.02) | (1.10) | (1.30) | (1.53) | (1.71) | (1.80) | (2.00) | (2.24) | (2.42) | (2.60) | (2.70) | (0.  | (0. | (0. | (10. | (10. | (10. |
| SIDELINE 200. FT.      | 80     |        |        |        |        |        |        |        |        |        |        |      |     |     |      |      |      |
| ( 60.00 M)             | 100    | 47.7   | 50.0   | 52.2   | 51.3   | 52.1   | 51.2   | 50.9   | 49.4   | 51.0   | 54.0   | 53.2 |     |     |      |      |      |
| VEHICLE 4-38           | 120    | 51.0   | 50.4   | 50.3   | 57.5   | 50.0   | 55.2   | 52.9   | 53.0   | 54.5   | 53.0   | 52.7 |     |     |      |      |      |
| CONFIG FOR 2-7         | 150    | 49.0   | 50.3   | 51.0   | 52.4   | 52.5   | 52.1   | 53.0   | 54.2   | 55.1   | 55.2   | 54.5 |     |     |      |      |      |
| LOC SCHEMECTADY        | 200    | 49.4   | 48.3   | 50.4   | 52.1   | 53.4   | 55.2   | 55.5   | 50.3   | 50.0   | 50.0   | 54.0 |     |     |      |      |      |
| DATE 1/8/75            | 250    | 51.3   | 51.9   | 53.0   | 55.2   | 55.0   | 50.2   | 50.0   | 50.0   | 50.1   | 55.0   | 52.5 |     |     |      |      |      |
| RUN 43/0               | 310    | 52.2   | 53.0   | 54.5   | 50.2   | 50.2   | 57.1   | 57.0   | 50.0   | 50.2   | 55.2   | 51.0 |     |     |      |      |      |
| TAPE                   | 400    | 50.0   | 51.2   | 52.9   | 54.1   | 54.7   | 55.5   | 55.9   | 55.5   | 54.0   | 53.0   | 49.7 |     |     |      |      |      |
| BAR 20.0 MC            | 500    | 48.0   | 49.4   | 51.0   | 53.0   | 54.0   | 55.4   | 55.0   | 54.0   | 54.2   | 52.9   | 47.0 |     |     |      |      |      |
| (100000. N/M2)         | 630    | 50.5   | 51.0   | 53.7   | 50.4   | 50.7   | 57.0   | 50.5   | 57.0   | 50.0   | 53.0   | 47.0 |     |     |      |      |      |
| TANU 50. DEG F         | 800    | 53.1   | 52.9   | 55.1   | 50.3   | 50.0   | 50.0   | 59.3   | 50.0   | 57.1   | 53.4   | 47.3 |     |     |      |      |      |
| (203. DEG K)           | 1000   | 50.7   | 52.3   | 55.0   | 55.0   | 57.0   | 50.0   | 59.4   | 59.0   | 57.4   | 52.4   | 49.2 |     |     |      |      |      |
| TNET 40. DEG F         | 1200   | 51.1   | 54.2   | 50.1   | 50.1   | 59.0   | 61.2   | 62.0   | 61.5   | 59.2   | 52.7   | 45.0 |     |     |      |      |      |
| (201. DEG K)           | 1600   | 55.4   | 60.2   | 63.2   | 67.2   | 69.3   | 71.3   | 70.6   | 60.0   | 64.7   | 50.9   | 40.0 |     |     |      |      |      |
| NACT 0.90 CM/M3        | 2000   | 50.9   | 60.0   | 63.7   | 60.1   | 60.0   | 71.4   | 71.3   | 60.1   | 63.2   | 57.0   | 40.0 |     |     |      |      |      |
| (.00000 CM/M3)         | 2500   | 53.7   | 50.0   | 61.0   | 65.7   | 66.4   | 67.7   | 60.4   | 67.1   | 63.4   | 55.2   | 49.0 |     |     |      |      |      |
| NFA 7554. RPM          | 3150   | 55.4   | 61.3   | 65.2   | 69.2   | 70.0   | 70.4   | 72.3   | 70.4   | 70.0   | 62.3   | 53.1 |     |     |      |      |      |
| ( 730. RAD/SEC)        | 4000   | 55.0   | 61.3   | 65.5   | 70.0   | 71.2   | 71.4   | 72.7   | 70.3   | 74.7   | 62.2   | 52.0 |     |     |      |      |      |
| NPK 7110. RPM          | 5000   | 57.2   | 60.0   | 69.7   | 73.0   | 70.7   | 75.3   | 74.0   | 73.2   | 66.3   | 59.2   | 40.2 |     |     |      |      |      |
| ( 745. RAD/SEC)        | 6300   | 53.4   | 60.1   | 63.4   | 68.0   | 71.0   | 70.0   | 71.3   | 71.0   | 64.7   | 57.7   | 49.7 |     |     |      |      |      |
| NFS 6023. RPM          | 8000   | 51.2   | 50.5   | 61.3   | 67.0   | 60.0   | 60.3   | 69.1   | 69.1   | 62.4   | 54.4   | 41.0 |     |     |      |      |      |
| ( 924. RAD/SEC)        | 10000  | 46.4   | 54.2   | 60.0   | 60.0   | 64.2   | 60.1   | 67.4   | 60.1   | 60.0   | 50.4   | 30.7 |     |     |      |      |      |
| NO. OF BLADES IS 12500 | 44.3   | 49.5   | 54.0   | 60.0   | 62.3   | 63.4   | 63.4   | 62.3   | 59.7   | 44.1   | 20.1   |      |     |     |      |      |      |
| FAN TIP SPEED 10000    | 37.7   | 42.2   | 47.7   | 51.4   | 55.4   | 50.2   | 57.1   | 55.4   | 40.0   | 34.1   | 10.0   |      |     |     |      |      |      |
| 010. FT/SEC 20000      | 31.5   | 35.4   | 41.0   | 40.0   | 40.9   | 50.1   | 50.9   | 40.0   | 30.3   | 20.1   |        |      |     |     |      |      |      |
| 25000                  | 23.2   | 20.0   | 23.7   | 30.2   | 40.1   | 41.3   | 41.3   | 30.0   | 27.7   | 0.0    |        |      |     |     |      |      |      |
| 31500                  | 10.3   | 13.0   | 21.0   | 27.3   | 29.1   | 29.7   | 27.9   | 24.0   | 11.1   |        |        |      |     |     |      |      |      |
| 40000                  |        |        | 3.0    | 10.0   | 11.2   | 11.0   | 0.0    | 1.2    |        |        |        |      |     |     |      |      |      |
| 50000                  |        |        |        |        |        |        |        |        |        |        |        |      |     |     |      |      |      |
| 60000                  |        |        |        |        |        |        |        |        |        |        |        |      |     |     |      |      |      |
| OVERALL CALCULATED     | 66.3   | 71.7   | 74.0   | 70.0   | 61.0   | 61.0   | 61.2   | 70.0   | 70.0   | 69.0   | 63.3   |      |     |     |      |      |      |
| PH00                   | 70.4   | 60.1   | 69.0   | 62.0   | 66.3   | 64.0   | 64.7   | 63.3   | 60.0   | 63.0   | 70.2   |      |     |     |      |      |      |

MODEL SOUND PRESSURE LEVELS (59. LEG. F. 70 PERCENT REL. HUM. DAT)

PROC. DATE = JUN 11 3 04 PM '75

ANGLE FROM INLET IN DEGREES (AND RADIANS)

| FREQ.              | ANGLE FROM INLET IN DEGREES (AND RADIANS) |        |        |        |        |        |        |        |        |        |        |       |      |     |      |       |     |       |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|-----|------|-------|-----|-------|
|                    | 50.                                       | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.    | 0.   | 0.  | 0.   | 0.    | 0.  |       |
|                    | (1.62)                                    | (1.10) | (1.30) | (1.53) | (1.71) | (1.88) | (2.00) | (2.24) | (2.42) | (2.60) | (2.76) | (0.   | 110. | 10. | 110. | 110.) | PWL |       |
| RADIAL 17. FT.     | 80  |        |        |        |        |        |        |        |        |        |        |       |      |     |      |       |     |       |
| ( 5. M)            | 100                                       | 71.2   | 73.2   | 74.6   | 75.3   | 75.6   | 76.5   | 76.9   | 76.9   | 80.3   | 84.0   | 88.0  |      |     |      |       |     | 113.2 |
| VEHICLE R-55       | 145                                       | 75.7   | 77.4   | 78.1   | 77.6   | 78.0   | 78.2   | 78.7   | 80.6   | 82.6   | 84.3   | 86.0  |      |     |      |       |     | 114.4 |
| CONFIG 104-27      | 160                                       | 74.7   | 76.4   | 76.4   | 77.6   | 77.5   | 78.2   | 80.2   | 81.4   | 84.3   | 86.0   | 86.0  |      |     |      |       |     | 119.2 |
| LOC SCHEMECTADY    | 200                                       | 74.5   | 74.9   | 75.0   | 77.3   | 79.3   | 81.0   | 81.9   | 83.6   | 85.3   | 87.0   | 89.5  |      |     |      |       |     | 116.4 |
| DATE 1/8/75        | 250                                       | 77.5   | 77.9   | 78.9   | 80.1   | 81.0   | 81.7   | 83.9   | 84.4   | 85.0   | 87.3   | 89.0  |      |     |      |       |     | 117.1 |
| RUN 43/7           | 315                                       | 78.2   | 79.2   | 79.6   | 81.0   | 81.0   | 82.5   | 83.4   | 84.4   | 85.0   | 86.5   | 87.6  |      |     |      |       |     | 117.1 |
| TAPE               | 400                                       | 77.3   | 77.4   | 77.0   | 79.3   | 80.3   | 81.5   | 82.4   | 83.4   | 84.6   | 85.0   | 86.3  |      |     |      |       |     | 117.1 |
| BAR 29.9 MG        | 500                                       | 75.3   | 75.9   | 76.9   | 78.9   | 79.5   | 80.6   | 82.4   | 82.9   | 84.1   | 84.0   | 85.3  |      |     |      |       |     | 115.0 |
| (80000. 3/M2)      | 630                                       | 76.8   | 78.2   | 79.4   | 80.9   | 82.1   | 83.3   | 84.7   | 85.4   | 86.0   | 89.3   | 84.0  |      |     |      |       |     | 116.1 |
| TAND 49. DEG F     | 800                                       | 79.3   | 79.9   | 80.9   | 82.4   | 82.6   | 84.0   | 85.2   | 86.4   | 86.3   | 85.1   | 86.5  |      |     |      |       |     | 117.0 |
| (203. DEG K)       | 1000                                      | 77.1   | 78.4   | 79.6   | 81.4   | 82.1   | 84.0   | 85.9   | 86.6   | 86.3   | 83.0   | 83.3  |      |     |      |       |     | 117.7 |
| TNET 45. DEG F     | 1250                                      | 78.4   | 80.0   | 81.1   | 83.2   | 84.0   | 86.3   | 87.6   | 88.4   | 88.3   | 84.1   | 83.3  |      |     |      |       |     | 117.4 |
| (200. DEG K)       | 1600                                      | 79.6   | 82.7   | 84.4   | 88.0   | 88.4   | 89.6   | 90.9   | 91.1   | 90.1   | 84.4   | 82.3  |      |     |      |       |     | 119.2 |
| MACT 6.87 CM/M3    | 2000                                      | 86.1   | 89.3   | 90.0   | 94.2   | 95.0   | 98.0   | 100.4  | 100.1  | 97.9   | 91.1   | 89.0  |      |     |      |       |     | 124.1 |
| (1.00067 AC/M3)    | 2500                                      | 82.1   | 87.0   | 88.4   | 91.5   | 93.2   | 94.0   | 96.1   | 95.3   | 93.4   | 87.4   | 84.0  |      |     |      |       |     | 130.4 |
| NPA 7037. RPM      | 3150                                      | 82.3   | 87.3   | 89.3   | 93.0   | 93.2   | 96.1   | 96.3   | 96.0   | 96.1   | 89.0   | 87.2  |      |     |      |       |     | 126.0 |
| ( 821. RAD/SEC)    | 4000                                      | 88.0   | 92.2   | 94.0   | 97.3   | 97.9   | 100.5  | 104.0  | 107.2  | 109.3  | 101.3  | 98.0  |      |     |      |       |     | 128.0 |
| NPA 7914. RPM      | 5000                                      | 83.2   | 88.4   | 91.2   | 95.0   | 97.0   | 98.5   | 100.4  | 99.4   | 96.0   | 91.0   | 87.1  |      |     |      |       |     | 130.6 |
| ( 829. RAD/SEC)    | 6300                                      | 84.0   | 91.0   | 93.0   | 97.1   | 101.0  | 104.0  | 103.0  | 102.2  | 97.0   | 93.6   | 89.2  |      |     |      |       |     | 130.5 |
| NPD 8423. RPM      | 8000                                      | 84.1   | 91.1   | 98.1   | 102.1  | 99.4   | 101.1  | 101.2  | 100.0  | 96.0   | 93.2   | 89.0  |      |     |      |       |     | 134.4 |
| ( 924. RAD/SEC)    | 10000                                     | 81.9   | 87.0   | 92.4   | 94.0   | 97.2   | 99.4   | 101.2  | 100.4  | 97.4   | 92.2   | 87.7  |      |     |      |       |     | 133.3 |
| NO. OF BLADES 15   | 12500                                     | 89.6   | 86.3   | 90.5   | 94.6   | 94.5   | 98.0   | 100.0  | 100.3  | 96.4   | 91.5   | 86.7  |      |     |      |       |     | 131.4 |
| FAN TIP SPEED      | 16000                                     | 77.6   | 82.2   | 86.6   | 90.5   | 93.2   | 94.7   | 96.0   | 97.6   | 93.7   | 88.1   | 83.0  |      |     |      |       |     | 131.2 |
| 684. FT/SEC        | 20000                                     | 77.0   | 81.3   | 86.0   | 90.1   | 91.0   | 94.0   | 96.5   | 98.4   | 93.6   | 87.9   | 83.0  |      |     |      |       |     | 127.0 |
|                    | 25000                                     | 75.5   | 79.0   | 83.0   | 86.7   | 90.1   | 92.0   | 95.7   | 97.0   | 93.2   | 87.4   | 82.2  |      |     |      |       |     | 120.4 |
|                    | 31500                                     | 75.2   | 79.4   | 82.3   | 86.0   | 89.1   | 91.0   | 93.7   | 95.0   | 92.1   | 85.9   | 80.4  |      |     |      |       |     | 127.0 |
|                    | 40000                                     | 75.4   | 77.2   | 79.9   | 84.4   | 86.2   | 88.6   | 91.3   | 91.0   | 89.3   | 83.4   | 76.4  |      |     |      |       |     | 127.0 |
|                    | 50000                                     | 76.0   | 75.7   | 79.0   | 81.3   | 83.0   | 85.9   | 87.0   | 87.6   | 85.0   | 81.0   | 76.3  |      |     |      |       |     | 129.0 |
|                    | 63000                                     | 79.2   | 78.6   | 78.0   | 78.0   | 80.5   | 82.0   | 83.1   | 81.7   | 80.4   | 76.0   | 77.0  |      |     |      |       |     | 124.0 |
|                    | 80000                                     | 82.9   | 78.5   | 81.6   | 79.7   | 80.1   | 81.1   | 81.0   | 81.0   | 80.6   | 80.7   | 80.0  |      |     |      |       |     | 123.1 |
| OVERALL MEASURED   |   |        |        |        |        |        |        |        |        |        |        |       |      |     |      |       |     | 127.7 |
| OVERALL CALCULATED |   | 95.6   | 99.7   | 103.3  | 106.0  | 108.2  | 110.3  | 111.4  | 112.0  | 111.3  | 109.1  | 103.0 |      |     |      |       |     | 143.0 |
| PWDB               |   | 109.1  | 113.1  | 116.3  | 119.4  | 120.3  | 122.7  | 123.0  | 120.9  | 120.1  | 119.0  | 117.0 |      |     |      |       |     |       |

FREQ. (1.02) (1.19) (1.36) (1.53) (1.71) (1.88) (2.06) (2.24) (2.42) (2.60) (2.78) (0. 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150.)

|                    | 50    | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 0    | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 |  |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|--|
| SIDELINE 200. FT.  | 50    | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50  | 50  | 50  | 50  | 50  | 50  |  |
| ( 60.00 M)         | 130   | 46.2 | 50.9 | 52.0 | 53.0 | 54.1 | 54.5 | 54.2 | 53.1 | 52.0 | 50.9 | 57.1 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| VEHICLE R-55       | 129   | 52.0 | 53.1 | 50.3 | 53.9 | 50.3 | 50.1 | 55.9 | 50.0 | 57.1 | 50.3 | 50.4 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| CONFIG FOR 27      | 100   | 51.5 | 54.0 | 54.5 | 55.9 | 55.7 | 50.0 | 57.3 | 57.4 | 50.8 | 50.0 | 50.7 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| LOC SCHENECTADY    | 200   | 51.2 | 52.4 | 53.0 | 53.5 | 57.4 | 50.7 | 50.0 | 59.5 | 59.6 | 59.7 | 57.4 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| DATE 1/8/75        | 250   | 54.1 | 55.5 | 56.0 | 56.2 | 59.0 | 59.4 | 60.9 | 60.2 | 60.0 | 59.6 | 50.4 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| RUN 43/7           | 315   | 54.7 | 50.5 | 57.5 | 59.6 | 59.7 | 60.0 | 60.3 | 60.1 | 59.8 | 50.1 | 55.2 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| TAPE               | 400   | 53.7 | 54.7 | 55.0 | 57.3 | 50.1 | 59.0 | 59.2 | 59.0 | 50.3 | 50.4 | 53.4 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| BAR 20.0 MG        | 500   | 51.0 | 53.1 | 54.5 | 56.7 | 57.3 | 50.1 | 59.1 | 50.4 | 57.9 | 56.0 | 52.2 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| ( 10000. RPM)      | 630   | 53.0 | 55.2 | 56.9 | 58.6 | 59.7 | 60.5 | 61.2 | 60.7 | 59.5 | 50.3 | 51.4 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| TAMU 49. DEG F     | 800   | 55.4 | 56.9 | 50.3 | 60.0 | 60.1 | 61.2 | 61.0 | 61.0 | 59.8 | 55.0 | 50.0 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| ( 293. DEG K)      | 1000  | 53.0 | 55.2 | 50.9 | 50.9 | 59.5 | 61.1 | 62.2 | 61.7 | 59.0 | 54.3 | 49.1 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| TMET 45. DEG F     | 1200  | 54.1 | 56.0 | 50.3 | 60.0 | 62.1 | 63.2 | 63.0 | 63.2 | 61.4 | 54.3 | 40.7 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| ( 203. DEG K)      | 1600  | 55.1 | 59.2 | 61.4 | 65.2 | 65.5 | 60.3 | 66.0 | 65.0 | 62.9 | 54.2 | 47.2 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| MACT 6.67 CM/MS    | 2000  | 61.4 | 65.0 | 67.4 | 71.3 | 72.0 | 75.1 | 70.1 | 74.5 | 70.3 | 60.0 | 53.4 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| ( 1.00007 MG/MS)   | 2500  | 57.2 | 63.1 | 65.0 | 60.4 | 60.9 | 71.2 | 71.0 | 69.3 | 69.0 | 50.5 | 40.0 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| MFA 7037. RPM      | 3150  | 57.1 | 63.0 | 65.7 | 70.4 | 71.0 | 72.1 | 71.5 | 70.0 | 67.9 | 50.2 | 50.3 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| ( 621. 400/SEC)    | 4000  | 62.3 | 67.5 | 69.9 | 73.4 | 73.9 | 70.1 | 70.7 | 60.5 | 60.4 | 60.1 | 60.7 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| MFK 7914. RPM      | 5000  | 57.2 | 63.5 | 60.9 | 70.9 | 73.7 | 73.0 | 74.9 | 72.4 | 60.7 | 50.0 | 40.2 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| ( 629. 400/SEC)    | 6300  | 57.9 | 65.3 | 60.0 | 72.3 | 77.1 | 70.5 | 77.0 | 74.3 | 60.0 | 59.3 | 40.2 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| MFB 8023. RPM      | 8000  | 56.0 | 64.2 | 72.0 | 70.2 | 73.4 | 74.5 | 73.0 | 71.0 | 64.0 | 50.0 | 44.0 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| ( 624. 400/SEC)    | 10000 | 52.0 | 59.4 | 64.7 | 67.5 | 69.7 | 71.3 | 71.9 | 69.1 | 63.1 | 52.0 | 40.0 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| NO. OF BLADES IS   | 12500 | 46.0 | 55.7 | 60.5 | 65.1 | 60.0 | 60.4 | 60.2 | 60.3 | 50.0 | 47.7 | 31.0 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| FAN TIP SPEED      | 10000 | 40.7 | 47.5 | 52.9 | 57.4 | 59.0 | 60.5 | 60.7 | 50.9 | 50.3 | 37.0 | 17.7 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| ( 604. FT/SEC)     | 20000 | 34.5 | 41.4 | 47.8 | 52.2 | 53.7 | 55.0 | 55.2 | 53.4 | 42.0 | 27.2 | 3.0  |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
|                    | 25000 | 24.9 | 32.0 | 30.5 | 44.0 | 45.1 | 40.5 | 40.0 | 43.1 | 31.0 | 12.0 |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
|                    | 31500 | 12.0 | 21.3 | 20.0 | 32.3 | 30.1 | 35.0 | 33.2 | 20.2 | 10.3 |      |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
|                    | 40000 |      | 3.1  | 9.2  | 10.0 | 10.3 | 10.2 | 13.9 | 9.7  |      |      |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
| OVERALL CALCULATED | PH00  | 60.4 | 74.4 | 77.0 | 81.0 | 82.0 | 84.5 | 84.7 | 84.0 | 82.0 | 72.0 | 67.3 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |
|                    | PH00  | 63.0 | 60.0 | 91.2 | 84.0 | 96.0 | 97.0 | 90.0 | 90.0 | 97.0 | 80.0 | 60.0 |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |  |





MODEL SOUND PRESSURE LEVELS (DB, LEL, F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AMB RADIAN)

|                   |       | 30.    | 40.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.  | 0. | 0. | 0. | 0. | 0. |
|-------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|----|----|----|----|----|
|                   | FREQ- | (1.02) | (1.19) | (1.30) | (1.53) | (1.71) | (1.84) | (2.00) | (2.24) | (2.42) | (2.60) | (2.78) | (0. | 0. | 0. | 0. | 0. |    |
|                   |       | 30     | 40     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0   | 0  | 0  | 0  | 0  |    |
| SIDELINE 300. FT. | 00    |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |    |
| ( 60.00 M)        | 100   | 40.2   | 51.2   | 52.0   | 53.5   | 53.9   | 54.2   | 54.2   | 53.1   | 54.0   | 50.7   | 57.1   |     |    |    |    |    |    |
| VEHICLE 0-55      | 120   | 52.4   | 55.6   | 56.0   | 55.9   | 56.0   | 56.4   | 55.9   | 57.0   | 57.4   | 56.5   | 56.7   |     |    |    |    |    |    |
| CONVIS 0-27       | 140   | 52.0   | 54.6   | 53.0   | 55.9   | 55.7   | 55.3   | 57.0   | 57.7   | 50.0   | 50.2   | 50.7   |     |    |    |    |    |    |
| LDC SCHEMATA      | 200   | 51.2   | 52.4   | 53.0   | 53.0   | 54.0   | 54.2   | 54.2   | 50.3   | 50.4   | 50.2   | 57.0   |     |    |    |    |    |    |
| DATE 1/0/75       | 250   | 54.1   | 55.0   | 57.5   | 56.9   | 59.3   | 59.9   | 61.4   | 60.2   | 60.0   | 59.0   | 50.7   |     |    |    |    |    |    |
| RUM 43/0          | 315   | 55.2   | 56.0   | 57.7   | 58.4   | 59.7   | 60.5   | 60.3   | 59.0   | 59.1   | 60.1   | 55.2   |     |    |    |    |    |    |
| TAPE              | 400   | 53.4   | 54.7   | 55.9   | 57.5   | 58.1   | 59.0   | 59.2   | 59.2   | 60.0   | 56.9   | 53.7   |     |    |    |    |    |    |
| BAR 20.0 MC       | 500   | 51.0   | 53.0   | 54.5   | 57.0   | 57.0   | 57.0   | 59.1   | 58.4   | 60.1   | 54.0   | 51.0   |     |    |    |    |    |    |
| ( 10000. M/M2)    | 630   | 53.0   | 55.2   | 56.7   | 59.4   | 59.5   | 59.0   | 61.4   | 60.7   | 59.0   | 50.0   | 51.0   |     |    |    |    |    |    |
| TAND 40. DEG F    | 600   | 55.4   | 57.4   | 58.0   | 60.0   | 60.4   | 60.0   | 62.1   | 61.0   | 60.3   | 55.0   | 51.0   |     |    |    |    |    |    |
| ( 203. DEG K)     | 1000  | 53.2   | 55.7   | 57.2   | 58.0   | 59.7   | 60.0   | 61.0   | 61.7   | 59.0   | 54.1   | 49.1   |     |    |    |    |    |    |
| TURT 40. DEG F    | 1200  | 53.0   | 56.0   | 56.0   | 60.0   | 62.1   | 63.2   | 64.0   | 63.0   | 61.1   | 54.0   | 40.7   |     |    |    |    |    |    |
| ( 200. DEG K)     | 1000  | 55.1   | 59.7   | 61.1   | 64.7   | 65.0   | 66.3   | 67.1   | 69.3   | 62.0   | 54.0   | 47.7   |     |    |    |    |    |    |
| MACT 0.07 CM/M3   | 2000  | 61.2   | 65.5   | 67.2   | 71.3   | 73.1   | 74.0   | 75.0   | 73.0   | 69.0   | 60.0   | 53.7   |     |    |    |    |    |    |
| ( 1.00007 KG/M3)  | 2500  | 56.9   | 62.0   | 63.0   | 66.0   | 70.2   | 71.2   | 71.1   | 69.0   | 69.1   | 56.0   | 49.1   |     |    |    |    |    |    |
| MFA 7037. RPM     | 3150  | 56.0   | 62.5   | 63.0   | 66.0   | 71.1   | 71.9   | 71.0   | 70.1   | 67.4   | 50.2   | 48.0   |     |    |    |    |    |    |
| ( 0.21. RAD/SEC)  | 4000  | 61.5   | 66.0   | 67.4   | 73.0   | 74.7   | 75.0   | 76.7   | 68.3   | 69.4   | 60.0   | 51.0   |     |    |    |    |    |    |
| MFA 7014. RPM     | 5000  | 57.2   | 63.0   | 66.0   | 70.0   | 73.4   | 75.1   | 74.1   | 73.4   | 60.7   | 50.3   | 40.4   |     |    |    |    |    |    |
| ( 0.20. RAD/SEC)  | 6300  | 50.2   | 64.5   | 66.6   | 72.0   | 70.0   | 70.0   | 77.0   | 74.0   | 60.0   | 50.0   | 40.7   |     |    |    |    |    |    |
| MFB 0023. RPM     | 8000  | 56.7   | 64.7   | 71.3   | 70.0   | 73.1   | 74.0   | 73.0   | 71.1   | 69.1   | 57.1   | 44.0   |     |    |    |    |    |    |
| ( 0.24. RAD/SEC)  | 10000 | 51.7   | 58.0   | 64.0   | 66.2   | 66.7   | 71.0   | 71.0   | 66.0   | 62.3   | 53.1   | 39.2   |     |    |    |    |    |    |
| NO. OF BLADES IS  | 12500 | 40.3   | 50.2   | 61.0   | 65.3   | 69.1   | 68.0   | 67.0   | 65.0   | 50.4   | 47.7   | 31.0   |     |    |    |    |    |    |
| FAN TIP SPEED     | 10000 | 40.7   | 47.5   | 52.4   | 57.4   | 60.1   | 60.7   | 60.7   | 59.2   | 49.0   | 37.0   | 10.2   |     |    |    |    |    |    |
| 600. FT/SEC       | 20000 | 34.0   | 41.1   | 47.3   | 51.3   | 53.4   | 54.0   | 53.4   | 53.0   | 43.3   | 37.0   | 3.4    |     |    |    |    |    |    |
|                   | 25000 | 24.0   | 32.0   | 36.0   | 41.5   | 44.0   | 40.3   | 40.0   | 42.0   | 31.0   | 13.1   |        |     |    |    |    |    |    |
|                   | 31500 | 12.0   | 20.0   | 27.0   | 32.3   | 34.1   | 34.7   | 32.0   | 20.0   | 10.0   |        |        |     |    |    |    |    |    |
|                   | 40000 |        | 2.0    | 10.7   | 15.0   | 16.0   | 16.7   | 13.0   | 0.0    |        |        |        |     |    |    |    |    |    |
|                   | 50000 |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |    |
|                   | 63000 |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |    |
|                   | 80000 |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |    |
| GCALL CALCULATED  |       | 60.2   | 74.0   | 77.0   | 81.7   | 82.0   | 84.5   | 84.0   | 83.0   | 81.0   | 73.0   | 67.0   |     |    |    |    |    |    |
| PROB              |       | 63.2   | 66.3   | 66.0   | 64.0   | 66.0   | 67.7   | 66.0   | 66.7   | 67.3   | 67.7   | 60.0   |     |    |    |    |    |    |



MODEL 3040 PRESSURE LEVELS 100, 110, 120, 130, 140, 150 PERCENT REL. HUM. DATA

ANGLES FROM INLET IN LEGS (ANG. MAG.)

| PARAMETER               | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
| PRG#                    | (1.02) | (1.10) | (1.30) | (1.33) | (1.71) | (1.00) | (2.00) | (2.20) | (2.42) | (2.60) | (2.70) | 10.  | 100. | 100. | 100. | 100. | 100. |
| SIDELINE 200. FT.       | 100    | 42.7   | 49.3   | 54.4   | 58.1   | 54.0   | 50.0   | 50.5   | 49.1   | 46.0   | 46.0   | 45.0 |      |      |      |      |      |
| ( 00.00 M)              | 100    | 46.4   | 46.4   | 46.0   | 47.0   | 47.0   | 51.7   | 49.0   | 46.3   | 47.7   | 45.4   | 43.7 |      |      |      |      |      |
| VEHICLE 0-05            | 100    | 41.0   | 43.0   | 44.5   | 45.4   | 45.7   | 53.3   | 47.1   | 40.7   | 47.0   | 47.5   | 44.0 |      |      |      |      |      |
| COWIC 400-7             | 100    | 41.5   | 42.5   | 43.0   | 43.0   | 47.1   | 53.0   | 49.0   | 40.0   | 49.7   | 49.1   | 40.0 |      |      |      |      |      |
| LDC SCHECTADY           | 200    | 43.4   | 44.0   | 46.0   | 46.7   | 49.1   | 50.0   | 50.1   | 49.2   | 46.0   | 47.4   | 43.7 |      |      |      |      |      |
| DATE 1/8/75             | 200    | 44.5   | 46.0   | 46.2   | 49.7   | 50.2   | 51.3   | 50.0   | 49.0   | 48.0   | 47.7   | 43.0 |      |      |      |      |      |
| RUN 43/0                | 310    | 42.9   | 45.0   | 46.4   | 46.0   | 46.2   | 51.5   | 49.0   | 49.0   | 49.3   | 46.0   | 41.7 |      |      |      |      |      |
| TAPE                    | 400    | 41.0   | 44.0   | 45.0   | 46.3   | 49.0   | 49.7   | 49.0   | 49.0   | 47.0   | 46.1   | 40.2 |      |      |      |      |      |
| BAR 20.0 MS             | 500    | 44.0   | 46.5   | 46.5   | 50.0   | 51.0   | 52.3   | 52.7   | 52.0   | 51.3   | 48.7   | 41.4 |      |      |      |      |      |
| (00000. M/M2)           | 630    | 45.0   | 46.4   | 50.1   | 51.3   | 51.4   | 52.7   | 53.0   | 53.4   | 52.0   | 48.7   | 41.3 |      |      |      |      |      |
| TAMB 40. DEG F          | 600    | 44.5   | 47.3   | 50.0   | 51.4   | 52.2   | 53.0   | 54.7   | 54.2   | 53.0   | 49.4   | 39.0 |      |      |      |      |      |
| (203. DEG K)            | 1000   | 49.0   | 53.4   | 54.0   | 56.0   | 56.0   | 63.2   | 64.0   | 63.5   | 63.2   | 55.4   | 40.3 |      |      |      |      |      |
| TACT 45. DEG F          | 1250   | 46.0   | 53.2   | 53.4   | 56.2   | 59.0   | 61.0   | 62.1   | 61.1   | 59.7   | 52.0   | 42.0 |      |      |      |      |      |
| (200. DEG K)            | 1000   | 46.4   | 52.0   | 54.7   | 56.3   | 59.1   | 60.0   | 60.0   | 59.0   | 57.7   | 51.3   | 40.0 |      |      |      |      |      |
| WACT 0.67 CM/M3         | 2000   | 56.5   | 61.0   | 64.0   | 63.4   | 67.4   | 68.2   | 68.1   | 68.1   | 72.4   | 64.2   | 52.2 |      |      |      |      |      |
| (.00067 KG/M3)          | 2500   | 52.1   | 57.0   | 59.2   | 60.0   | 64.4   | 65.1   | 65.5   | 64.2   | 67.2   | 50.3   | 47.1 |      |      |      |      |      |
| WPA 5400. RPM           | 3150   | 51.1   | 56.1   | 56.5   | 63.0   | 64.2   | 66.7   | 66.2   | 66.5   | 62.5   | 53.2   | 43.0 |      |      |      |      |      |
| ( 57.4. RAD/SEC)        | 4000   | 46.5   | 53.5   | 56.7   | 60.5   | 63.7   | 66.0   | 66.1   | 63.9   | 64.0   | 52.0   | 41.7 |      |      |      |      |      |
| WPK 5540. RPM           | 5000   | 46.7   | 51.3   | 54.0   | 59.0   | 62.0   | 64.1   | 63.1   | 64.1   | 62.0   | 51.2   | 40.0 |      |      |      |      |      |
| ( 500. RAD/SEC)         | 6300   | 42.5   | 46.0   | 52.3   | 57.0   | 60.4   | 61.3   | 60.0   | 60.1   | 56.0   | 47.0   | 36.1 |      |      |      |      |      |
| WPD 6623. RPM           | 8000   | 36.0   | 44.0   | 49.3   | 54.0   | 56.4   | 56.0   | 56.4   | 56.0   | 54.0   | 44.7   | 30.2 |      |      |      |      |      |
| ( 624. RAD/SEC)         | 10000  | 34.0   | 40.0   | 45.1   | 50.0   | 53.0   | 54.4   | 53.0   | 54.1   | 50.2   | 36.1   | 21.1 |      |      |      |      |      |
| NO. OF BLADES IS        | 12000  | 20.0   | 23.3   | 27.7   | 42.0   | 45.0   | 47.7   | 47.7   | 46.2   | 41.1   | 27.4   | 7.0  |      |      |      |      |      |
| FAN TIP SPEED           | 16000  | 21.0   | 25.0   | 32.1   | 36.0   | 39.2   | 41.1   | 40.0   | 39.4   | 33.0   | 17.4   |      |      |      |      |      |      |
| 470. FT/SEC             | 20000  | 13.2   | 16.1   | 23.3   | 27.0   | 30.7   | 31.6   | 30.3   | 29.7   | 20.0   | 1.0    |      |      |      |      |      |      |
|                         | 25000  | 8.0    | 6.7    | 12.0   | 17.4   | 20.1   | 23.2   | 17.0   | 13.3   | 3.0    |        |      |      |      |      |      |      |
|                         | 31000  |        |        |        | 0.1    | 3.0    |        |        |        |        |        |      |      |      |      |      |      |
|                         | 40000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                         | 50000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                         | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                         | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| OVERALL CAL. CUR. AT 10 |        | 61.4   | 66.3   | 68.0   | 70.7   | 73.2   | 75.0   | 74.0   | 73.7   | 73.4   | 67.2   | 67.0 |      |      |      |      |      |
| PRG#                    |        | 75.7   | 66.0   | 63.1   | 64.0   | 67.1   | 66.7   | 66.4   | 67.0   | 66.0   | 61.0   | 71.1 |      |      |      |      |      |



MODEL SOUND PRESSURE LEVELS 150, LEG. F. 7% PERCENT REL. HUM, SAT)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| PARAMETER          | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| FREQ.              | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.   | (0.   | (0.   | (0.   | (0.   | (0.   |
| SIDELINE 200. FT.  | 50     | 53     | 56     | 59     | 62     | 65     | 68     | 71     | 74     | 77     | 80     | 83    | 86    | 89    | 92    | 95    | 98    |
| ( 80.00 M)         | 100    | 103    | 106    | 109    | 112    | 115    | 118    | 121    | 124    | 127    | 130    | 133   | 136   | 139   | 142   | 145   | 148   |
| VEHICLE            | 129    | 132    | 135    | 138    | 141    | 144    | 147    | 150    | 153    | 156    | 159    | 162   | 165   | 168   | 171   | 174   | 177   |
| CONFIG             | 100    | 103    | 106    | 109    | 112    | 115    | 118    | 121    | 124    | 127    | 130    | 133   | 136   | 139   | 142   | 145   | 148   |
| LOC SCHEMECTABY    | 200    | 203    | 206    | 209    | 212    | 215    | 218    | 221    | 224    | 227    | 230    | 233   | 236   | 239   | 242   | 245   | 248   |
| DATE 1/8/78        | 250    | 253    | 256    | 259    | 262    | 265    | 268    | 271    | 274    | 277    | 280    | 283   | 286   | 289   | 292   | 295   | 298   |
| RUN 44/1           | 315    | 318    | 321    | 324    | 327    | 330    | 333    | 336    | 339    | 342    | 345    | 348   | 351   | 354   | 357   | 360   | 363   |
| TAPE               | 400    | 403    | 406    | 409    | 412    | 415    | 418    | 421    | 424    | 427    | 430    | 433   | 436   | 439   | 442   | 445   | 448   |
| BAR 29.9 HG        | 500    | 503    | 506    | 509    | 512    | 515    | 518    | 521    | 524    | 527    | 530    | 533   | 536   | 539   | 542   | 545   | 548   |
| (100000. N/M2)     | 630    | 633    | 636    | 639    | 642    | 645    | 648    | 651    | 654    | 657    | 660    | 663   | 666   | 669   | 672   | 675   | 678   |
| TANS 50. DEG F     | 800    | 803    | 806    | 809    | 812    | 815    | 818    | 821    | 824    | 827    | 830    | 833   | 836   | 839   | 842   | 845   | 848   |
| (203. DEG K)       | 1000   | 1003   | 1006   | 1009   | 1012   | 1015   | 1018   | 1021   | 1024   | 1027   | 1030   | 1033  | 1036  | 1039  | 1042  | 1045  | 1048  |
| TREY 45. DEG F     | 1250   | 1253   | 1256   | 1259   | 1262   | 1265   | 1268   | 1271   | 1274   | 1277   | 1280   | 1283  | 1286  | 1289  | 1292  | 1295  | 1298  |
| (200. DEG K)       | 1600   | 1603   | 1606   | 1609   | 1612   | 1615   | 1618   | 1621   | 1624   | 1627   | 1630   | 1633  | 1636  | 1639  | 1642  | 1645  | 1648  |
| MACT 6.37 CM/M3    | 2000   | 2003   | 2006   | 2009   | 2012   | 2015   | 2018   | 2021   | 2024   | 2027   | 2030   | 2033  | 2036  | 2039  | 2042  | 2045  | 2048  |
| (.00037 KG/M3)     | 2500   | 2503   | 2506   | 2509   | 2512   | 2515   | 2518   | 2521   | 2524   | 2527   | 2530   | 2533  | 2536  | 2539  | 2542  | 2545  | 2548  |
| NFA 5507. RPM      | 3150   | 3153   | 3156   | 3159   | 3162   | 3165   | 3168   | 3171   | 3174   | 3177   | 3180   | 3183  | 3186  | 3189  | 3192  | 3195  | 3198  |
| ( 577. RAD/SEC)    | 4000   | 4003   | 4006   | 4009   | 4012   | 4015   | 4018   | 4021   | 4024   | 4027   | 4030   | 4033  | 4036  | 4039  | 4042  | 4045  | 4048  |
| NFA 5555. RPM      | 5000   | 5003   | 5006   | 5009   | 5012   | 5015   | 5018   | 5021   | 5024   | 5027   | 5030   | 5033  | 5036  | 5039  | 5042  | 5045  | 5048  |
| ( 582. RAD/SEC)    | 6300   | 6303   | 6306   | 6309   | 6312   | 6315   | 6318   | 6321   | 6324   | 6327   | 6330   | 6333  | 6336  | 6339  | 6342  | 6345  | 6348  |
| NFA 8823. RPM      | 8000   | 8003   | 8006   | 8009   | 8012   | 8015   | 8018   | 8021   | 8024   | 8027   | 8030   | 8033  | 8036  | 8039  | 8042  | 8045  | 8048  |
| ( 924. RAD/SEC)    | 10000  | 10003  | 10006  | 10009  | 10012  | 10015  | 10018  | 10021  | 10024  | 10027  | 10030  | 10033 | 10036 | 10039 | 10042 | 10045 | 10048 |
| NO. OF BLADES IS   | 12500  | 12503  | 12506  | 12509  | 12512  | 12515  | 12518  | 12521  | 12524  | 12527  | 12530  | 12533 | 12536 | 12539 | 12542 | 12545 | 12548 |
| FAN TIP SPEED      | 16000  | 16003  | 16006  | 16009  | 16012  | 16015  | 16018  | 16021  | 16024  | 16027  | 16030  | 16033 | 16036 | 16039 | 16042 | 16045 | 16048 |
| 481. FT/SEC        | 20000  | 20003  | 20006  | 20009  | 20012  | 20015  | 20018  | 20021  | 20024  | 20027  | 20030  | 20033 | 20036 | 20039 | 20042 | 20045 | 20048 |
|                    | 25000  | 25003  | 25006  | 25009  | 25012  | 25015  | 25018  | 25021  | 25024  | 25027  | 25030  | 25033 | 25036 | 25039 | 25042 | 25045 | 25048 |
|                    | 31500  | 31503  | 31506  | 31509  | 31512  | 31515  | 31518  | 31521  | 31524  | 31527  | 31530  | 31533 | 31536 | 31539 | 31542 | 31545 | 31548 |
|                    | 40000  | 40003  | 40006  | 40009  | 40012  | 40015  | 40018  | 40021  | 40024  | 40027  | 40030  | 40033 | 40036 | 40039 | 40042 | 40045 | 40048 |
|                    | 50000  | 50003  | 50006  | 50009  | 50012  | 50015  | 50018  | 50021  | 50024  | 50027  | 50030  | 50033 | 50036 | 50039 | 50042 | 50045 | 50048 |
|                    | 63000  | 63003  | 63006  | 63009  | 63012  | 63015  | 63018  | 63021  | 63024  | 63027  | 63030  | 63033 | 63036 | 63039 | 63042 | 63045 | 63048 |
|                    | 80000  | 80003  | 80006  | 80009  | 80012  | 80015  | 80018  | 80021  | 80024  | 80027  | 80030  | 80033 | 80036 | 80039 | 80042 | 80045 | 80048 |
| OVERALL CALCULATED | 80.0   | 84.0   | 87.3   | 91.1   | 93.1   | 94.4   | 94.9   | 95.2   | 95.2   | 95.2   | 95.0   | 94.8  | 94.5  | 94.2  | 93.9  | 93.6  | 93.3  |
| PNDB               | 73.1   | 76.0   | 81.4   | 86.4   | 87.0   | 86.4   | 86.8   | 86.0   | 87.0   | 87.0   | 87.0   | 87.0  | 87.0  | 87.0  | 87.0  | 87.0  | 87.0  |



NOISE SOUND PRESSURE LEVELS (DB, DEC. F, 70 PERCENT REL. HUM, SAT)

ANGLES FROM INLET IN DEGREES (AND MAGNITUDE)

| FREQ.                     | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0. | 0. | 0. | 0. | 0.  |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|-----|
|                           | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.  | 0. | 0. | 0. | 0. | 0.) |
| SIDELINE 200. FT.         | 50     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| ( 60.00 M)                | 63     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| VEHICLE R-55              | 100    | 49.2   | 53.3   | 51.4   | 53.1   | 55.0   | 53.7   | 51.7   | 50.1   | 48.6   | 50.5   | 49.4 |    |    |    |    |     |
| CONFIG TP 24              | 120    | 48.1   | 48.9   | 50.3   | 49.2   | 52.1   | 49.9   | 49.2   | 50.0   | 50.2   | 50.1   | 49.0 |    |    |    |    |     |
| LOC SCHENECTADY           | 180    | 45.6   | 47.1   | 48.5   | 48.7   | 49.2   | 49.3   | 50.3   | 50.7   | 51.3   | 51.8   | 48.7 |    |    |    |    |     |
| DATE 1/8/75               | 200    | 44.7   | 45.8   | 47.7   | 49.1   | 51.0   | 52.2   | 52.0   | 52.8   | 52.9   | 52.8   | 50.2 |    |    |    |    |     |
| RUN 44/2                  | 250    | 47.4   | 48.2   | 50.6   | 51.5   | 52.6   | 52.4   | 53.1   | 53.0   | 51.8   | 50.8   | 48.2 |    |    |    |    |     |
| TAPE                      | 315    | 48.5   | 50.6   | 52.5   | 53.2   | 53.7   | 54.1   | 53.8   | 53.4   | 52.7   | 52.0   | 47.7 |    |    |    |    |     |
| BAR 20.9 MC               | 400    | 46.9   | 48.2   | 50.7   | 51.6   | 51.9   | 52.5   | 52.7   | 53.3   | 51.6   | 50.1   | 45.7 |    |    |    |    |     |
| ( 100000. N/M2)           | 500    | 43.6   | 46.6   | 48.6   | 50.6   | 51.0   | 52.2   | 53.1   | 52.4   | 50.7   | 49.1   | 43.9 |    |    |    |    |     |
| TANG 50. DEG F            | 630    | 47.0   | 48.8   | 51.5   | 53.4   | 54.7   | 55.3   | 55.7   | 55.0   | 54.0   | 51.2   | 44.4 |    |    |    |    |     |
| ( 1203. DEG M)            | 800    | 47.4   | 49.7   | 52.4   | 54.3   | 54.9   | 55.0   | 56.3   | 56.1   | 54.1   | 50.7   | 43.5 |    |    |    |    |     |
| TNET 45. DEG F            | 1000   | 47.7   | 50.5   | 53.7   | 55.9   | 54.7   | 56.1   | 56.9   | 57.2   | 55.7   | 50.2   | 42.4 |    |    |    |    |     |
| ( 1200. DEG M)            | 1250   | 50.6   | 54.2   | 56.3   | 57.1   | 58.4   | 59.7   | 61.0   | 60.5   | 58.5   | 51.7   | 43.8 |    |    |    |    |     |
| MACT 6.37 CM/M3           | 1600   | 60.4   | 64.7   | 65.7   | 67.2   | 66.0   | 67.1   | 69.3   | 69.6   | 68.2   | 57.4   | 46.5 |    |    |    |    |     |
| ( 1.00037 KG/M3)          | 2000   | 52.7   | 55.8   | 57.7   | 59.3   | 61.3   | 63.1   | 64.6   | 63.6   | 60.9   | 52.5   | 43.7 |    |    |    |    |     |
| MFA 6297. RPM             | 2500   | 50.7   | 56.1   | 58.9   | 61.4   | 63.9   | 65.2   | 66.1   | 64.6   | 62.4   | 54.4   | 45.9 |    |    |    |    |     |
| ( 659. RAD/SEC)           | 3150   | 54.9   | 61.1   | 63.0   | 66.9   | 70.2   | 72.4   | 70.5   | 70.4   | 71.0   | 66.6   | 58.0 |    |    |    |    |     |
| MFK 6352. RPM             | 4000   | 51.0   | 58.1   | 60.9   | 64.2   | 67.7   | 67.7   | 68.2   | 68.8   | 63.3   | 55.6   | 44.0 |    |    |    |    |     |
| ( 665. RAD/SEC)           | 5000   | 55.0   | 65.8   | 63.7   | 69.7   | 73.7   | 76.9   | 71.4   | 68.7   | 64.1   | 57.2   | 48.0 |    |    |    |    |     |
| MFB 8823. RPM             | 6300   | 50.0   | 54.8   | 58.6   | 62.6   | 66.3   | 68.9   | 67.3   | 66.3   | 62.7   | 55.9   | 44.0 |    |    |    |    |     |
| ( 924. RAD/SEC)           | 8000   | 48.3   | 51.6   | 56.1   | 61.0   | 62.7   | 64.9   | 67.1   | 64.4   | 60.2   | 50.8   | 38.1 |    |    |    |    |     |
| NO. OF BLADES 15          | 10000  | 44.0   | 49.5   | 55.0   | 61.3   | 61.6   | 63.6   | 64.7   | 62.2   | 67.8   | 47.8   | 34.8 |    |    |    |    |     |
| PAN TIP SPEED 580. FT/SEC | 12500  | 39.6   | 43.5   | 49.4   | 54.4   | 57.9   | 60.2   | 59.5   | 58.9   | 52.5   | 41.4   | 24.9 |    |    |    |    |     |
|                           | 16000  | 31.8   | 36.3   | 41.6   | 47.0   | 50.7   | 52.1   | 52.7   | 50.8   | 44.4   | 38.7   | 11.0 |    |    |    |    |     |
|                           | 20000  | 24.6   | 29.0   | 35.4   | 41.4   | 44.2   | 45.2   | 45.8   | 44.2   | 38.8   | 28.9   |      |    |    |    |    |     |
|                           | 25000  | 15.3   | 19.7   | 26.4   | 32.4   | 35.2   | 36.2   | 35.9   | 33.0   | 23.8   | 4.6    |      |    |    |    |    |     |
|                           | 31500  | 2.7    | 8.6    | 15.7   | 21.8   | 24.3   | 24.9   | 23.8   | 19.1   | 7.2    |        |      |    |    |    |    |     |
|                           | 40000  |        |        |        | 4.5    | 6.4    | 6.4    | 4.8    |        |        |        |      |    |    |    |    |     |
|                           | 50000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
|                           | 63000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
|                           | 80000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| OVERALL CALCULATED        |        | 64.8   | 70.5   | 71.4   | 75.8   | 77.7   | 77.8   | 78.2   | 77.8   | 74.8   | 69.3   | 61.9 |    |    |    |    |     |
| PRSD                      |        | 77.6   | 84.4   | 84.7   | 89.9   | 92.8   | 92.1   | 91.8   | 91.8   | 89.9   | 84.7   | 78.8 |    |    |    |    |     |



PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59, DCG, P, 70 PERCENT REL. HUM, DAY)  
 PROC. DATE = MONTH 3 DAY 18 YR. 1972  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ               | PdB    |        |        |        |        |        |        |        |        |        |        |      |     |     |     |       |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-------|
|                    | 58     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0    | 0   | 0   | 0   | 0     |
| 90                 | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0)  | (0) | (0) | (0) | (0)   |
| 63                 |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |       |
| RADIAL 17. FT.     |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |       |
| ( 5. M)            |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |       |
| VEHICLE            | 100    | 88.8   | 72.3   | 73.7   | 72.9   | 73.8   | 73.3   | 73.7   | 74.2   | 76.9   | 81.7   | 84.0 |     |     |     | 110.2 |
| CONFIG             | 125    | 75.3   | 80.0   | 80.7   | 78.1   | 80.5   | 77.0   | 74.7   | 77.7   | 79.9   | 81.9   | 84.8 |     |     |     | 113.0 |
| LOC SCHEMECTADY    | 160    | 71.0   | 72.8   | 73.7   | 73.9   | 74.8   | 74.8   | 76.7   | 78.2   | 80.4   | 83.7   | 84.8 |     |     |     | 111.0 |
| DATE 1/8/75        | 200    | 71.0   | 71.2   | 71.9   | 73.4   | 75.5   | 77.5   | 77.9   | 80.2   | 81.2   | 84.9   | 86.1 |     |     |     | 112.0 |
| RUN 44/3           | 250    | 73.8   | 74.5   | 76.2   | 77.4   | 77.9   | 78.5   | 79.9   | 80.4   | 81.7   | 83.4   | 84.8 |     |     |     | 113.4 |
| TAPE               | 315    | 76.8   | 75.7   | 77.4   | 78.1   | 79.3   | 79.5   | 80.2   | 81.2   | 82.4   | 84.2   | 84.3 |     |     |     | 114.1 |
| BAR 20.9 HG        | 400    | 74.3   | 74.5   | 75.7   | 76.4   | 77.3   | 78.0   | 79.4   | 80.7   | 81.7   | 82.7   | 83.1 |     |     |     | 112.9 |
| (80000, N/M2)      | 500    | 72.1   | 73.0   | 74.4   | 75.9   | 77.1   | 77.5   | 79.4   | 80.4   | 80.7   | 81.4   | 81.3 |     |     |     | 112.1 |
| TAMB 30. DEG F     | 630    | 73.9   | 74.5   | 76.2   | 78.4   | 79.6   | 80.6   | 81.7   | 82.4   | 82.9   | 83.2   | 81.3 |     |     |     | 114.1 |
| (283. DEG K)       | 800    | 74.6   | 75.3   | 77.4   | 79.4   | 79.6   | 80.8   | 82.2   | 83.9   | 84.2   | 82.9   | 80.8 |     |     |     | 114.8 |
| TMET 45. DEG F     | 1000   | 74.8   | 76.2   | 78.9   | 79.2   | 79.8   | 81.6   | 83.2   | 84.7   | 84.7   | 81.9   | 79.8 |     |     |     | 115.3 |
| (200. DEG K)       | 1250   | 76.4   | 78.8   | 80.4   | 81.0   | 83.0   | 84.6   | 86.2   | 86.4   | 86.7   | 83.3   | 80.6 |     |     |     | 117.0 |
| MACT 6.37 GN/M3    | 1600   | 85.8   | 88.5   | 89.9   | 93.0   | 94.1   | 94.9   | 94.1   | 94.4   | 92.9   | 88.2   | 84.0 |     |     |     | 120.9 |
| (1.00037 KC/M3)    | 2000   | 86.1   | 88.6   | 89.7   | 93.0   | 94.4   | 95.6   | 95.9   | 95.4   | 93.4   | 89.0   | 85.1 |     |     |     | 127.2 |
| NFA 7089. RPM      | 2500   | 78.6   | 82.8   | 84.8   | 87.3   | 89.9   | 91.4   | 93.1   | 93.1   | 91.7   | 87.0   | 83.1 |     |     |     | 123.7 |
| ( 742. RAD/SEC)    | 3150   | 80.9   | 84.6   | 87.4   | 91.3   | 93.7   | 95.6   | 96.1   | 96.8   | 98.9   | 94.5   | 90.8 |     |     |     | 120.1 |
| NFR 7151. RPM      | 4000   | 81.8   | 85.8   | 89.0   | 92.8   | 95.1   | 96.8   | 97.3   | 97.5   | 94.4   | 93.0   | 91.0 |     |     |     | 129.1 |
| ( 749. RAD/SEC)    | 5000   | 83.3   | 87.2   | 92.2   | 96.8   | 99.6   | 99.5   | 98.9   | 94.4   | 95.1   | 90.9   | 87.4 |     |     |     | 130.2 |
| NFD 8623. RPM      | 6300   | 80.1   | 85.3   | 88.4   | 92.4   | 94.0   | 95.5   | 96.9   | 98.0   | 94.8   | 90.6   | 86.5 |     |     |     | 127.9 |
| ( 924. RAD/SEC)    | 8000   | 78.9   | 84.7   | 87.7   | 91.4   | 93.1   | 94.8   | 96.7   | 97.5   | 94.2   | 89.8   | 85.8 |     |     |     | 127.4 |
| NO. OF BLADES 15   | 10000  | 77.7   | 83.2   | 87.2   | 91.7   | 94.2   | 97.0   | 98.8   | 97.5   | 95.0   | 90.3   | 85.8 |     |     |     | 128.5 |
| FAN TIP SPEED      | 12500  | 75.9   | 78.9   | 83.8   | 88.7   | 92.9   | 94.8   | 96.1   | 96.8   | 93.0   | 88.7   | 83.8 |     |     |     | 126.9 |
| 618. FT/SEC        | 16000  | 72.8   | 76.6   | 80.2   | 85.1   | 89.0   | 90.5   | 93.2   | 94.4   | 90.8   | 85.1   | 81.0 |     |     |     | 124.2 |
| 25000              | 20000  | 78.9   | 73.4   | 78.9   | 84.0   | 88.6   | 89.2   | 92.8   | 94.2   | 91.2   | 84.9   | 79.3 |     |     |     | 124.0 |
| 31500              | 25000  | 89.1   | 71.7   | 76.8   | 82.3   | 85.0   | 87.6   | 89.8   | 92.3   | 89.4   | 83.5   | 77.8 |     |     |     | 122.8 |
| 40800              | 31500  | 88.4   | 71.3   | 76.5   | 81.8   | 84.3   | 86.5   | 88.8   | 90.9   | 88.0   | 82.1   | 75.8 |     |     |     | 122.4 |
| 50000              | 40800  | 87.0   | 68.8   | 74.3   | 78.8   | 81.4   | 83.8   | 86.7   | 87.8   | 85.0   | 80.0   | 71.1 |     |     |     | 121.8 |
| 63800              | 50000  | 88.4   | 67.8   | 72.3   | 75.1   | 77.5   | 80.5   | 83.2   | 82.9   | 80.8   | 76.9   | 69.2 |     |     |     | 118.9 |
| 80000              | 63800  | 78.0   | 66.9   | 71.3   | 71.0   | 73.1   | 74.9   | 77.2   | 76.8   | 74.8   | 72.9   | 69.0 |     |     |     | 118.3 |
| 88000              | 80000  | 73.4   | 71.2   | 72.2   | 78.8   | 71.6   | 72.1   | 73.3   | 72.8   | 71.3   | 71.8   | 70.6 |     |     |     | 118.0 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |       |
| OVERALL CALCULATED | 93.0   | 96.3   | 99.2   | 102.9  | 104.4  | 106.8  | 107.3  | 107.8  | 108.3  | 102.2  | 99.2   |      |     |     |     | 130.8 |
| PND8               | 105.7  | 109.0  | 112.8  | 118.2  | 116.7  | 119.1  | 119.3  | 119.8  | 119.7  | 116.0  | 112.6  |      |     |     |     |       |

|                    | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.  | 0.  | 0.  | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|------|
| FREQ.              | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.  | (0. | (0. | (0. | (0.) |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |      |
| ( 00.00 M)         | 63     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |      |
| VEHICLE            | 100    | 48.7   | 50.0   | 51.0   | 51.3   | 52.1   | 51.2   | 51.0   | 50.4   | 51.6   | 54.0   | 53.4 |     |     |     |      |
| COMPIC             | 125    | 52.1   | 57.7   | 58.8   | 58.5   | 58.8   | 54.9   | 51.9   | 53.8   | 54.5   | 54.1   | 53.2 |     |     |     |      |
| LOC SCHENECTADY    | 160    | 48.6   | 50.3   | 51.0   | 52.2   | 53.0   | 52.6   | 53.0   | 54.2   | 54.8   | 55.7   | 54.0 |     |     |     |      |
| DATE 1/9/79        | 200    | 47.7   | 48.8   | 49.9   | 51.6   | 53.8   | 55.2   | 55.8   | 56.1   | 55.5   | 56.0   | 54.0 |     |     |     |      |
| RUN 44/3           | 250    | 50.4   | 51.9   | 54.1   | 53.5   | 55.8   | 56.2   | 56.9   | 56.2   | 55.8   | 55.1   | 52.8 |     |     |     |      |
| TAPE               | 315    | 52.3   | 53.1   | 55.2   | 56.2   | 57.2   | 57.1   | 57.0   | 56.9   | 56.5   | 55.7   | 51.7 |     |     |     |      |
| BAR 29.9 HG        | 400    | 50.7   | 51.7   | 53.4   | 54.3   | 55.2   | 55.5   | 56.2   | 56.3   | 55.8   | 54.1   | 50.2 |     |     |     |      |
| ( 00000. N/M2)     | 500    | 48.4   | 50.1   | 52.1   | 53.8   | 54.8   | 54.9   | 56.1   | 55.9   | 54.4   | 52.8   | 48.2 |     |     |     |      |
| TAMB 50. DEG F     | 630    | 50.0   | 51.5   | 53.7   | 56.2   | 57.2   | 57.8   | 58.2   | 57.8   | 56.5   | 54.2   | 47.9 |     |     |     |      |
| ( 203. DEG K)      | 800    | 50.6   | 52.2   | 54.9   | 57.1   | 57.1   | 58.0   | 58.6   | 59.1   | 57.8   | 53.7   | 47.0 |     |     |     |      |
| TNET 45. DEG F     | 1000   | 50.5   | 53.0   | 56.2   | 59.7   | 57.2   | 58.6   | 59.4   | 59.7   | 57.9   | 52.4   | 45.4 |     |     |     |      |
| ( 280. DEG K)      | 1250   | 52.1   | 55.4   | 57.6   | 59.4   | 60.9   | 61.5   | 62.3   | 61.3   | 58.7   | 53.2   | 48.0 |     |     |     |      |
| MACT 6.37 CM/M3    | 1600   | 61.2   | 65.0   | 68.9   | 70.2   | 71.3   | 71.6   | 70.1   | 69.1   | 65.7   | 58.1   | 49.8 |     |     |     |      |
| ( 00037 KG/M3)     | 2000   | 61.4   | 64.8   | 66.9   | 70.1   | 71.3   | 72.1   | 71.6   | 69.8   | 65.9   | 58.8   | 49.8 |     |     |     |      |
| NFA 7089. RPM      | 2500   | 53.7   | 58.9   | 61.3   | 64.2   | 66.7   | 67.7   | 68.6   | 67.3   | 63.9   | 56.2   | 48.9 |     |     |     |      |
| ( 742. RAD/SEC)    | 3150   | 55.6   | 60.3   | 63.7   | 67.9   | 70.2   | 71.6   | 71.3   | 70.7   | 70.7   | 63.1   | 53.8 |     |     |     |      |
| NFK 7151. RPM      | 4000   | 56.1   | 61.1   | 65.0   | 69.0   | 71.2   | 72.4   | 72.8   | 70.8   | 70.8   | 62.7   | 52.8 |     |     |     |      |
| ( 749. RAD/SEC)    | 5000   | 57.2   | 62.3   | 67.9   | 72.7   | 71.4   | 74.8   | 73.4   | 72.4   | 68.8   | 58.2   | 48.8 |     |     |     |      |
| NFB 8823. RPM      | 6300   | 53.2   | 58.6   | 63.4   | 67.6   | 69.1   | 70.1   | 70.6   | 70.1   | 64.2   | 58.5   | 45.8 |     |     |     |      |
| ( 924. RAD/SEC)    | 8000   | 50.8   | 57.8   | 61.8   | 65.5   | 67.2   | 68.1   | 69.1   | 68.1   | 62.2   | 53.8   | 41.3 |     |     |     |      |
| NO. OF BLADES 15   | 10000  | 47.8   | 54.7   | 59.5   | 64.3   | 66.7   | 68.9   | 68.7   | 68.2   | 60.7   | 51.8   | 37.8 |     |     |     |      |
| FAN TIP SPEED      | 12500  | 43.4   | 48.8   | 53.9   | 59.2   | 63.1   | 64.2   | 64.3   | 62.4   | 55.2   | 44.9   | 28.2 |     |     |     |      |
| 619. FT/SEC        | 15000  | 39.8   | 48.8   | 48.9   | 52.8   | 55.7   | 58.3   | 57.2   | 55.9   | 47.4   | 34.8   | 14.8 |     |     |     |      |
|                    | 20000  | 28.4   | 33.5   | 40.4   | 46.1   | 48.3   | 50.8   | 51.2   | 49.2   | 40.8   | 24.2   |      |     |     |     |      |
|                    | 25000  | 18.6   | 24.8   | 31.4   | 37.8   | 40.8   | 41.2   | 40.7   | 38.8   | 28.1   | 9.1    |      |     |     |     |      |
|                    | 31500  | 6.8    | 13.3   | 20.9   | 27.8   | 29.3   | 29.8   | 28.3   | 24.1   | 11.2   |        |      |     |     |     |      |
|                    | 40000  |        |        | 3.8    | 9.5    | 11.4   | 11.4   | 9.3    | 1.8    |        |        |      |     |     |     |      |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |      |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |      |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |      |
| OVERALL CALCULATED |        | 67.7   | 71.8   | 74.9   | 78.7   | 79.8   | 81.2   | 80.8   | 79.7   | 78.8   | 78.2   | 63.7 |     |     |     |      |
| PHOC               |        | 88.7   | 84.8   | 88.4   | 92.4   | 92.9   | 94.7   | 94.8   | 93.1   | 91.1   | 84.3   | 78.8 |     |     |     |      |

MODEL SOUND PRESSURE LEVELS (99. LEG. P. 70 PERCENT REL. HUM. DAT)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| PRC.               | 50.   | 60.   | 70.   | 80.   | 90.   | 100.  | 110.  | 120.  | 130.  | 140.  | 150.  | 0.    | 0. | 0. | 0. | 0. | 0. | 0. | 0. |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|----|-------|-------|
| PRC.               | 11.02 | 11.19 | 11.36 | 11.53 | 11.71 | 11.88 | 12.06 | 12.24 | 12.42 | 12.60 | 12.78 | 0.    | 0. | 0. | 0. | 0. | 0. | 0. | 0. |       |       |
| RADIAL 17. FT.     | 50    |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |       |       |
| ( 5. M)            | 80    |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |       |       |
| VEHICLE N-55       | 100   | 69.8  | 73.3  | 74.2  | 74.4  | 75.6  | 76.2  | 75.7  | 76.2  | 79.9  | 84.0  | 86.0  |    |    |    |    |    |    |    | 113.0 |       |
| CONFIG T-24        | 125   | 75.5  | 77.3  | 76.7  | 77.6  | 79.0  | 78.2  | 78.2  | 80.7  | 82.2  | 84.9  | 87.0  |    |    |    |    |    |    |    |       | 114.5 |
| LOC SCHEMECTADY    | 150   | 74.5  | 75.5  | 76.2  | 76.6  | 77.8  | 78.0  | 79.7  | 81.4  | 83.7  | 86.7  | 88.0  |    |    |    |    |    |    |    |       | 115.0 |
| DATE 1/8/75        | 200   | 74.0  | 73.7  | 75.4  | 76.1  | 79.0  | 80.7  | 81.2  | 83.2  | 84.7  | 87.4  | 89.0  |    |    |    |    |    |    |    |       | 116.0 |
| RUN 44/6           | 250   | 77.0  | 77.5  | 79.2  | 80.1  | 81.5  | 82.5  | 83.4  | 84.2  | 84.9  | 87.7  | 88.0  |    |    |    |    |    |    |    |       | 117.0 |
| TAPE               | 315   | 78.5  | 79.0  | 80.2  | 80.4  | 81.5  | 82.7  | 82.7  | 84.2  | 84.9  | 87.2  | 87.0  |    |    |    |    |    |    |    |       | 118.0 |
| BAR 20.9 MC        | 400   | 77.1  | 77.2  | 77.9  | 78.9  | 80.3  | 81.2  | 82.4  | 82.9  | 83.9  | 86.2  | 86.1  |    |    |    |    |    |    |    |       | 115.7 |
| 10000. N/M21       | 500   | 75.3  | 75.3  | 77.2  | 76.9  | 80.5  | 81.3  | 82.7  | 82.9  | 83.7  | 84.9  | 85.1  |    |    |    |    |    |    |    |       | 115.3 |
| TAMB 50. DEG F     | 630   | 76.4  | 77.3  | 79.2  | 80.7  | 82.6  | 83.5  | 83.9  | 85.4  | 85.7  | 85.7  | 84.0  |    |    |    |    |    |    |    |       | 116.0 |
| (203. DEG K)       | 800   | 77.1  | 78.3  | 79.9  | 81.7  | 82.6  | 83.8  | 84.9  | 86.2  | 85.9  | 85.7  | 84.0  |    |    |    |    |    |    |    |       | 117.3 |
| YMET 45. DEG F     | 1000  | 76.9  | 78.5  | 81.2  | 81.2  | 82.6  | 83.5  | 85.7  | 86.7  | 86.7  | 83.9  | 82.6  |    |    |    |    |    |    |    |       | 117.5 |
| (200. DEG K)       | 1250  | 78.6  | 80.8  | 82.4  | 82.7  | 85.1  | 86.5  | 87.7  | 88.7  | 88.2  | 84.0  | 82.0  |    |    |    |    |    |    |    |       | 119.4 |
| NACT 6.37 CM/43    | 1600  | 81.1  | 83.5  | 85.2  | 86.0  | 88.1  | 88.8  | 89.9  | 90.9  | 89.7  | 85.2  | 82.0  |    |    |    |    |    |    |    |       | 121.6 |
| (.00637 KG/43)     | 2000  | 86.8  | 88.8  | 91.4  | 93.0  | 95.8  | 97.3  | 99.4  | 98.4  | 97.9  | 93.0  | 91.1  |    |    |    |    |    |    |    |       | 120.0 |
| NPA 7809. RPM      | 2500  | 82.4  | 86.8  | 88.1  | 91.1  | 92.7  | 94.6  | 96.1  | 95.6  | 92.9  | 88.8  | 85.1  |    |    |    |    |    |    |    |       | 120.5 |
| ( 823. RAD/SEC)    | 3150  | 82.1  | 86.3  | 88.9  | 92.1  | 95.2  | 96.3  | 96.3  | 96.1  | 84.4  | 80.0  | 86.0  |    |    |    |    |    |    |    |       | 127.0 |
| NPK 7934. RPM      | 4000  | 87.1  | 86.8  | 92.8  | 97.3  | 98.4  | 102.0 | 103.5 | 102.8 | 103.4 | 98.2  | 96.9  |    |    |    |    |    |    |    |       | 133.0 |
| ( 831. RAD/SEC)    | 5000  | 84.3  | 88.2  | 91.2  | 94.0  | 97.3  | 100.2 | 99.4  | 99.2  | 94.8  | 91.4  | 87.2  |    |    |    |    |    |    |    |       | 130.4 |
| NPB 8823. RPM      | 6300  | 88.6  | 91.5  | 94.9  | 97.9  | 101.7 | 107.2 | 105.2 | 103.0 | 97.6  | 93.0  | 89.0  |    |    |    |    |    |    |    |       | 136.4 |
| ( 924. RAD/SEC)    | 8000  | 83.9  | 87.2  | 92.7  | 97.6  | 100.4 | 108.3 | 101.2 | 100.8 | 94.8  | 93.6  | 89.3  |    |    |    |    |    |    |    |       | 132.2 |
| NO. OF BLADES 15   | 10000 | 81.4  | 85.7  | 90.5  | 95.2  | 94.4  | 99.2  | 102.2 | 100.5 | 96.0  | 92.3  | 88.3  |    |    |    |    |    |    |    |       | 131.0 |
| PAN TIP SPEED      | 12500 | 80.9  | 84.4  | 88.6  | 93.0  | 97.3  | 99.6  | 102.3 | 101.3 | 95.2  | 91.5  | 87.3  |    |    |    |    |    |    |    |       | 131.8 |
| 007. FT/SEC        | 16000 | 77.1  | 80.8  | 85.2  | 89.1  | 93.0  | 95.0  | 98.9  | 97.9  | 92.8  | 88.8  | 84.5  |    |    |    |    |    |    |    |       | 127.9 |
| OVERALL MEASURED   | 20000 | 75.1  | 78.9  | 84.1  | 88.3  | 91.9  | 93.7  | 96.1  | 96.0  | 92.5  | 87.9  | 83.3  |    |    |    |    |    |    |    |       | 127.7 |
| OVERALL CALCULATED | 25000 | 73.0  | 77.2  | 82.3  | 87.1  | 90.9  | 92.5  | 95.1  | 97.1  | 92.4  | 87.2  | 82.1  |    |    |    |    |    |    |    |       | 127.3 |
| PNS                | 31500 | 72.6  | 76.3  | 81.5  | 85.8  | 89.0  | 91.7  | 93.6  | 94.0  | 90.8  | 85.8  | 79.8  |    |    |    |    |    |    |    |       | 126.7 |
|                    | 40000 | 71.0  | 73.0  | 78.5  | 82.8  | 86.3  | 88.8  | 91.0  | 91.1  | 88.0  | 83.5  | 74.3  |    |    |    |    |    |    |    |       | 125.8 |
|                    | 50000 | 69.7  | 70.3  | 76.0  | 78.9  | 83.0  | 85.7  | 87.7  | 87.2  | 83.8  | 80.6  | 70.9  |    |    |    |    |    |    |    |       | 123.4 |
|                    | 63000 | 78.0  | 86.9  | 72.5  | 73.0  | 80.1  | 81.8  | 81.7  | 86.8  | 77.8  | 74.8  | 68.5  |    |    |    |    |    |    |    |       | 121.0 |
|                    | 80000 | 73.9  | 71.0  | 72.7  | 71.8  | 80.1  | 81.1  | 78.0  | 79.8  | 73.8  | 72.3  | 70.6  |    |    |    |    |    |    |    |       | 120.1 |
|                    |       | 95.6  | 96.4  | 101.0 | 105.3 | 108.1 | 111.2 | 111.3 | 111.0 | 108.2 | 104.3 | 102.3 |    |    |    |    |    |    |    |       | 142.4 |
|                    |       | 100.0 | 111.5 | 114.5 | 117.8 | 120.3 | 124.0 | 123.4 | 123.0 | 122.3 | 116.4 | 116.5 |    |    |    |    |    |    |    |       |       |

ORIGINAL PAGE IS  
OF POOR QUALITY

MODEL SOUND PRESSURE LEVELS 150, LEG. F. 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIAN(S))

|                    | FREQ. | 95.    | 88.    | 75.    | 68.    | 55.    | 48.    | 35.    | 28.    | 15.    | 8.     | 0.     | 0.  | 0.   | 0.   | 0.   |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|------|------|------|
|                    |       | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | 10. | 110. | 120. | 130. |
| SIDELINE 200. FT.  | 50    |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |
| ( 60.96 M)         | 63    |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |
| VEHICLE            | 100   | 46.7   | 50.0   | 52.4   | 52.8   | 54.1   | 54.2   | 53.0   | 52.4   | 54.0   | 57.3   | 57.2   |     |      |      |      |
| CONFIG R-55        | 125   | 52.4   | 54.9   | 56.8   | 56.0   | 57.3   | 58.1   | 55.4   | 56.8   | 56.7   | 57.1   | 56.2   |     |      |      |      |
| LOC SCHEMECTADY    | 160   | 51.3   | 53.1   | 54.3   | 54.9   | 56.0   | 55.8   | 56.8   | 57.4   | 58.1   | 58.7   | 58.7   |     |      |      |      |
| BATE 1/8/75        | 200   | 50.7   | 51.3   | 53.4   | 54.3   | 57.1   | 58.5   | 58.2   | 59.1   | 59.0   | 59.3   | 57.5   |     |      |      |      |
| RUN 44/4           | 250   | 53.6   | 54.9   | 57.1   | 58.2   | 59.5   | 60.1   | 60.4   | 60.0   | 59.1   | 59.4   | 58.2   |     |      |      |      |
| TAPE               | 315   | 55.0   | 56.3   | 58.0   | 58.4   | 59.5   | 60.3   | 59.5   | 59.9   | 59.0   | 58.7   | 58.0   |     |      |      |      |
| BAR 20.9 MG        | 400   | 53.4   | 54.5   | 55.7   | 56.8   | 58.1   | 58.7   | 59.2   | 58.5   | 57.8   | 57.8   | 53.2   |     |      |      |      |
| (80000. N/M2)      | 500   | 51.0   | 52.4   | 54.0   | 56.8   | 58.3   | 58.8   | 59.3   | 58.4   | 57.4   | 56.1   | 51.9   |     |      |      |      |
| TAND 50, DEG F     | 600   | 52.5   | 54.3   | 56.7   | 58.4   | 60.2   | 60.8   | 60.5   | 60.8   | 59.3   | 58.7   | 51.1   |     |      |      |      |
| (283. DEG K)       | 1000  | 53.1   | 55.2   | 57.4   | 59.3   | 60.1   | 60.7   | 61.3   | 61.4   | 59.4   | 58.4   | 50.8   |     |      |      |      |
| THET 45, DEG F     | 1250  | 52.7   | 55.3   | 58.5   | 58.7   | 60.0   | 60.6   | 61.9   | 61.7   | 59.9   | 54.4   | 48.7   |     |      |      |      |
| (280. DEG K)       | 1500  | 54.4   | 57.4   | 59.8   | 63.1   | 62.4   | 63.4   | 63.8   | 63.5   | 61.2   | 54.7   | 48.3   |     |      |      |      |
| HACT 6.37 CM/M3    | 2000  | 56.7   | 60.0   | 62.2   | 63.2   | 65.3   | 65.5   | 65.8   | 65.8   | 62.8   | 55.1   | 47.8   |     |      |      |      |
| (.00637 KG/M3)     | 2500  | 61.9   | 65.1   | 68.2   | 70.1   | 72.6   | 73.8   | 75.1   | 72.8   | 70.4   | 62.5   | 55.5   |     |      |      |      |
| NFA 7865. RPM      | 3150  | 57.5   | 62.9   | 64.8   | 67.9   | 69.4   | 71.2   | 71.8   | 69.8   | 69.2   | 57.9   | 48.9   |     |      |      |      |
| ( 823. RAD/SEC)    | 4000  | 56.9   | 62.1   | 65.2   | 68.7   | 71.7   | 72.4   | 71.5   | 69.9   | 66.2   | 58.8   | 49.1   |     |      |      |      |
| NFK 7934. RPM      | 5000  | 61.3   | 64.1   | 68.7   | 73.5   | 74.5   | 77.6   | 78.2   | 78.1   | 74.5   | 66.0   | 50.3   |     |      |      |      |
| ( 831. RAD/SEC)    | 6300  | 58.2   | 63.3   | 68.9   | 70.8   | 73.2   | 75.6   | 73.9   | 72.2   | 68.8   | 58.7   | 48.2   |     |      |      |      |
| NFB 8823. RPM      | 8000  | 61.7   | 65.8   | 69.9   | 73.1   | 78.8   | 81.8   | 78.8   | 75.1   | 67.5   | 59.8   | 48.7   |     |      |      |      |
| ( 924. RAD/SEC)    | 10000 | 55.8   | 60.3   | 66.8   | 71.8   | 74.4   | 73.8   | 73.8   | 71.1   | 64.9   | 57.2   | 45.1   |     |      |      |      |
| NO. OF BLADES 15   | 12500 | 51.5   | 57.2   | 62.8   | 67.8   | 69.8   | 71.1   | 72.9   | 69.2   | 61.7   | 53.0   | 49.8   |     |      |      |      |
| PAN TIP SPEED      | 15000 | 48.4   | 53.5   | 58.6   | 63.4   | 67.6   | 69.1   | 70.8   | 67.2   | 57.5   | 47.7   | 31.9   |     |      |      |      |
| 687. FT/SEC        | 20000 | 48.3   | 49.8   | 51.8   | 58.0   | 59.7   | 60.8   | 61.8   | 59.0   | 49.4   | 37.8   | 18.3   |     |      |      |      |
|                    | 25000 | 32.8   | 39.0   | 45.8   | 50.4   | 53.7   | 54.4   | 54.7   | 53.8   | 41.7   | 27.2   | 2.8    |     |      |      |      |
|                    | 31500 | 23.1   | 30.8   | 36.9   | 42.4   | 45.8   | 46.1   | 45.9   | 43.3   | 31.1   | 12.8   |        |     |      |      |      |
|                    | 40000 | 18.2   | 18.3   | 25.9   | 31.8   | 34.8   | 34.8   | 33.8   | 28.1   | 14.8   |        |        |     |      |      |      |
|                    | 50000 |        |        | 7.9    | 13.8   | 16.4   | 16.3   | 13.8   | 8.1    |        |        |        |     |      |      |      |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |
| OVERALL CALCULATED |       | 68.7   | 73.3   | 77.8   | 80.4   | 82.9   | 85.8   | 84.3   | 82.3   | 78.8   | 72.2   | 68.8   |     |      |      |      |
| PNBW               |       | 63.4   | 66.8   | 70.8   | 74.1   | 76.8   | 78.2   | 76.3   | 73.7   | 68.8   | 60.8   | 79.2   |     |      |      |      |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PRUC. DATE = MUMTH 3 EAT 10 MM. 12.2  
 MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. DATI  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 59.    | 68.    | 78.    | 88.    | 98.    | 108.   | 118.   | 128.   | 138.   | 148.   | 159.   | 0.    | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | PAL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|-----|-----|-----|-------|
| FREQ.              | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.   | (0. | (0. | (0. | (0. | (0. | (0. |       |
| RADIAL 17. FT.     | 53     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |     |       |
| ( 5. M)            | 63     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |     |       |
| VEHICLE            | 100    | 69.3   | 72.0   | 73.9   | 74.1   | 75.5   | 76.5   | 76.2   | 76.4   | 79.4   | 84.7   | 88.3  |     |     |     |     |     |     | 112.9 |
| CONFIS             | 125    | 76.3   | 77.0   | 78.7   | 78.9   | 78.5   | 77.5   | 78.2   | 80.4   | 82.4   | 85.2   | 88.1  |     |     |     |     |     |     | 114.8 |
| LOC SCHENECTADY    | 160    | 74.5   | 75.6   | 76.4   | 76.6   | 77.3   | 78.2   | 79.4   | 81.2   | 83.4   | 86.4   | 88.8  |     |     |     |     |     |     | 114.9 |
| DATE 1/8/75        | 200    | 73.8   | 73.2   | 75.2   | 76.4   | 78.8   | 81.2   | 80.9   | 83.2   | 85.2   | 88.2   | 89.8  |     |     |     |     |     |     | 116.2 |
| RUN 44/5           | 250    | 76.6   | 77.0   | 79.7   | 80.1   | 81.5   | 82.2   | 82.9   | 84.2   | 85.2   | 87.7   | 88.8  |     |     |     |     |     |     | 116.8 |
| TARE               | 315    | 79.0   | 79.0   | 80.2   | 80.6   | 81.8   | 82.5   | 82.9   | 84.2   | 84.9   | 87.4   | 87.6  |     |     |     |     |     |     | 117.0 |
| BAR 29.9 MG        | 400    | 76.8   | 77.0   | 78.4   | 78.7   | 80.5   | 81.2   | 82.7   | 83.2   | 84.2   | 86.2   | 86.8  |     |     |     |     |     |     | 115.8 |
| (80800. N/M2)      | 500    | 75.3   | 75.3   | 77.4   | 78.9   | 80.0   | 81.0   | 82.4   | 82.7   | 83.4   | 84.8   | 84.8  |     |     |     |     |     |     | 115.1 |
| TAMB 50. DEG F     | 630    | 76.1   | 76.8   | 79.4   | 80.7   | 82.6   | 83.5   | 84.2   | 84.9   | 85.4   | 86.0   | 85.3  |     |     |     |     |     |     | 116.9 |
| (263. DEG K)       | 800    | 77.4   | 78.0   | 80.7   | 81.7   | 83.1   | 83.5   | 84.7   | 86.4   | 86.2   | 85.4   | 84.8  |     |     |     |     |     |     | 117.4 |
| TNEY 45. DEG F     | 1000   | 77.1   | 78.5   | 81.4   | 81.7   | 82.3   | 83.6   | 85.2   | 86.4   | 85.8   | 83.8   | 83.1  |     |     |     |     |     |     | 117.3 |
| (200. DEG K)       | 1250   | 78.1   | 80.8   | 82.7   | 82.7   | 84.8   | 86.0   | 87.8   | 88.2   | 87.4   | 85.8   | 83.1  |     |     |     |     |     |     | 119.2 |
| MACT 6.37 GM/M3    | 1600   | 80.9   | 83.8   | 84.9   | 85.5   | 88.1   | 89.3   | 89.9   | 90.7   | 89.9   | 85.2   | 82.8  |     |     |     |     |     |     | 121.7 |
| (.00037 KG/M3)     | 2000   | 86.1   | 88.8   | 91.9   | 93.0   | 95.9   | 97.3   | 99.4   | 98.1   | 97.9   | 93.0   | 96.3  |     |     |     |     |     |     | 129.8 |
| NFA 7885. RPM      | 2500   | 82.8   | 87.3   | 88.4   | 91.3   | 93.2   | 94.6   | 96.1   | 95.6   | 92.8   | 88.3   | 85.6  |     |     |     |     |     |     | 128.6 |
| ( 823. RAD/SEC)    | 3150   | 81.9   | 85.8   | 89.1   | 92.1   | 94.7   | 96.3   | 96.3   | 96.3   | 94.7   | 90.8   | 88.5  |     |     |     |     |     |     | 127.8 |
| NFR 7934. RPM      | 4000   | 87.8   | 89.3   | 93.0   | 97.6   | 97.9   | 102.0  | 104.3  | 103.3  | 103.4  | 98.7   | 96.2  |     |     |     |     |     |     | 134.2 |
| ( 831. RAD/SEC)    | 5000   | 83.8   | 87.7   | 91.2   | 94.0   | 97.1   | 100.0  | 99.7   | 99.4   | 94.8   | 91.9   | 87.2  |     |     |     |     |     |     | 138.4 |
| NFD 8823. RPM      | 6300   | 89.3   | 92.0   | 94.9   | 98.2   | 101.7  | 107.2  | 103.2  | 103.8  | 97.6   | 94.1   | 89.3  |     |     |     |     |     |     | 135.4 |
| ( 924. RAD/SEC)    | 8000   | 84.7   | 87.4   | 92.7   | 97.4   | 100.1  | 100.8  | 102.0  | 100.2  | 96.4   | 93.3   | 89.8  |     |     |     |     |     |     | 132.3 |
| NO. OF BLADES 15   | 10000  | 81.2   | 85.5   | 91.5   | 94.9   | 96.9   | 99.2   | 102.0  | 100.7  | 96.8   | 92.3   | 88.0  |     |     |     |     |     |     | 131.5 |
| FAN TIP SPEED      | 12500  | 80.6   | 84.4   | 89.6   | 92.7   | 97.3   | 99.1   | 102.8  | 101.8  | 95.5   | 91.2   | 87.0  |     |     |     |     |     |     | 132.8 |
| 667. FT/SEC        | 16000  | 77.4   | 80.8   | 85.2   | 89.1   | 93.3   | 95.5   | 98.9   | 98.4   | 93.3   | 88.6   | 84.2  |     |     |     |     |     |     | 128.2 |
|                    | 20000  | 75.8   | 78.7   | 84.1   | 88.0   | 91.9   | 93.9   | 96.8   | 98.2   | 93.0   | 88.1   | 83.0  |     |     |     |     |     |     | 128.8 |
|                    | 25000  | 73.9   | 77.2   | 82.5   | 86.6   | 90.2   | 92.3   | 95.8   | 96.8   | 92.4   | 86.7   | 81.9  |     |     |     |     |     |     | 127.3 |
|                    | 31500  | 73.1   | 76.8   | 81.2   | 85.9   | 89.5   | 91.5   | 93.8   | 94.9   | 91.3   | 85.9   | 79.8  |     |     |     |     |     |     | 126.8 |
|                    | 40000  | 71.0   | 73.9   | 79.0   | 83.1   | 89.8   | 89.0   | 90.7   | 92.1   | 88.3   | 83.5   | 78.1  |     |     |     |     |     |     | 125.3 |
|                    | 50000  | 70.7   | 70.3   | 76.0   | 79.1   | 83.3   | 85.4   | 87.7   | 87.7   | 84.3   | 80.4   | 71.7  |     |     |     |     |     |     | 123.5 |
|                    | 63000  | 71.0   | 68.2   | 72.8   | 73.5   | 81.3   | 82.3   | 81.7   | 81.0   | 77.8   | 74.8   | 69.8  |     |     |     |     |     |     | 121.4 |
|                    | 80000  | 74.4   | 71.8   | 72.9   | 71.8   | 80.8   | 81.8   | 78.8   | 78.8   | 73.8   | 72.8   | 71.8  |     |     |     |     |     |     | 123.8 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |     |       |
| OVERALL CALCULATED |        | 98.8   | 96.5   | 102.1  | 105.4  | 108.1  | 111.2  | 111.8  | 111.1  | 108.3  | 104.8  | 102.2 |     |     |     |     |     |     | 142.8 |
| PNM                |        | 109.2  | 111.7  | 114.7  | 118.0  | 120.2  | 124.0  | 123.8  | 123.2  | 122.3  | 119.7  | 118.4 |     |     |     |     |     |     |       |

MODEL SOUND PRESSURE LEVELS (90. DEG. F., 70 PERCENT REL. HUM., DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                    |       | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.  | 0.  | 0.  | 0.  | 0.   |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|------|
|                    | FREQ. | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.  | (0. | (0. | (0. | (0. | (0.) |
| SIDELINE 200. FT.  | 50    |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| ( 60.90 M)         | 63    |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| VEHICLE            | 100   | 46.2   | 49.8   | 52.2   | 52.6   | 53.9   | 54.5   | 55.5   | 52.6   | 54.1   | 57.0   | 56.9   |      |     |     |     |     |      |
| CONFIG             | 125   | 53.1   | 54.7   | 56.8   | 55.2   | 56.8   | 55.4   | 55.4   | 56.6   | 57.0   | 57.4   | 56.8   |      |     |     |     |     |      |
| LOC SCHEMECTABY    | 160   | 51.3   | 53.3   | 54.5   | 54.9   | 55.5   | 56.0   | 56.0   | 57.2   | 57.0   | 58.5   | 56.7   |      |     |     |     |     |      |
| DATE 1/8/75        | 200   | 50.5   | 50.8   | 53.2   | 54.6   | 56.9   | 59.0   | 59.0   | 59.1   | 59.5   | 60.1   | 57.5   |      |     |     |     |     |      |
| RUN 44/5           | 250   | 53.4   | 54.4   | 57.6   | 58.2   | 59.5   | 59.0   | 59.9   | 59.9   | 60.0   | 59.3   | 59.4   | 59.2 |     |     |     |     |      |
| TAPE               | 315   | 55.5   | 56.3   | 56.0   | 56.7   | 59.7   | 60.0   | 59.8   | 59.9   | 59.0   | 59.0   | 59.0   | 59.0 |     |     |     |     |      |
| BAR 29.9 MG        | 400   | 53.2   | 54.2   | 56.2   | 56.6   | 56.4   | 56.7   | 59.4   | 58.8   | 56.1   | 57.6   | 53.7   |      |     |     |     |     |      |
| (00000. N/M2)      | 500   | 51.6   | 52.4   | 55.1   | 56.8   | 57.6   | 58.4   | 59.1   | 58.2   | 57.2   | 56.1   | 51.7   |      |     |     |     |     |      |
| TAMB 50. DEG F     | 630   | 52.3   | 53.8   | 57.0   | 56.4   | 60.2   | 60.0   | 60.7   | 60.3   | 60.0   | 56.0   | 51.9   |      |     |     |     |     |      |
| ( 203. DEG K)      | 800   | 53.4   | 54.9   | 58.1   | 59.3   | 60.6   | 60.7   | 61.1   | 61.6   | 59.6   | 56.2   | 50.6   |      |     |     |     |     |      |
| TWET 45. DEG F     | 1000  | 53.0   | 55.3   | 58.7   | 59.2   | 59.7   | 60.6   | 61.4   | 61.5   | 59.2   | 54.4   | 49.9   |      |     |     |     |     |      |
| ( 200. DEG K)      | 1250  | 53.9   | 57.4   | 59.8   | 60.1   | 62.1   | 62.0   | 64.0   | 63.0   | 60.5   | 55.2   | 46.5   |      |     |     |     |     |      |
| MACT 6.37 CM/M3    | 1600  | 56.4   | 60.2   | 61.9   | 62.7   | 65.3   | 66.0   | 65.8   | 65.3   | 62.7   | 55.1   | 47.0   |      |     |     |     |     |      |
| (.00037 KG/M3)     | 2000  | 61.4   | 65.1   | 66.7   | 70.1   | 72.6   | 73.6   | 75.1   | 72.0   | 76.4   | 62.5   | 54.7   |      |     |     |     |     |      |
| NFA 7865. RPM      | 2500  | 57.7   | 63.4   | 65.8   | 66.2   | 69.9   | 70.9   | 71.6   | 69.0   | 69.2   | 57.4   | 49.4   |      |     |     |     |     |      |
| ( 823. RAD/SEC)    | 3150  | 56.6   | 61.3   | 65.5   | 66.7   | 71.2   | 72.4   | 71.5   | 70.2   | 66.5   | 56.0   | 49.6   |      |     |     |     |     |      |
| NFK 7934. RPM      | 4000  | 61.8   | 64.6   | 69.0   | 73.7   | 74.0   | 77.6   | 79.0   | 76.6   | 74.5   | 66.5   | 58.8   |      |     |     |     |     |      |
| ( 831. RAD/SEC)    | 5000  | 57.7   | 62.8   | 66.9   | 70.6   | 72.9   | 75.3   | 74.1   | 72.4   | 69.6   | 59.2   | 48.2   |      |     |     |     |     |      |
| NFB 8623. RPM      | 6300  | 62.5   | 66.3   | 69.9   | 73.4   | 76.8   | 81.0   | 76.8   | 75.1   | 67.5   | 60.0   | 48.2   |      |     |     |     |     |      |
| ( 924. RAD/SEC)    | 8000  | 56.5   | 66.6   | 66.6   | 71.5   | 74.2   | 74.3   | 74.4   | 76.9   | 64.4   | 57.8   | 45.6   |      |     |     |     |     |      |
| NO. OF BLADES IS   | 10000 | 51.3   | 57.0   | 63.0   | 67.6   | 69.5   | 71.1   | 72.7   | 69.4   | 62.2   | 53.0   | 39.3   |      |     |     |     |     |      |
| FAN TIP SPEED      | 12500 | 48.1   | 53.5   | 59.6   | 63.2   | 67.6   | 68.6   | 71.0   | 67.7   | 67.7   | 47.4   | 31.7   |      |     |     |     |     |      |
| 887. FT/SEC        | 16000 | 46.6   | 49.8   | 51.3   | 56.0   | 59.9   | 61.3   | 61.8   | 59.5   | 49.9   | 37.5   | 16.1   |      |     |     |     |     |      |
|                    | 20000 | 33.1   | 36.7   | 45.6   | 50.1   | 53.7   | 54.7   | 55.2   | 53.2   | 42.2   | 27.4   | 2.7    |      |     |     |     |     |      |
|                    | 25000 | 23.3   | 30.8   | 37.1   | 41.9   | 45.2   | 45.9   | 46.4   | 43.0   | 31.1   | 12.4   |        |      |     |     |     |     |      |
|                    | 31500 | 18.7   | 18.8   | 25.7   | 31.3   | 34.5   | 34.4   | 33.3   | 28.1   | 16.5   |        |        |      |     |     |     |     |      |
|                    | 40000 |        |        | 8.4    | 13.7   | 15.9   | 16.6   | 13.3   | 6.1    |        |        |        |      |     |     |     |     |      |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| OVERALL CALCULATED |       | 69.9   | 73.4   | 77.2   | 80.4   | 82.8   | 85.6   | 84.6   | 82.4   | 78.6   | 72.4   | 66.9   |      |     |     |     |     |      |
| PNS                |       | 83.6   | 86.8   | 90.7   | 94.3   | 96.9   | 99.2   | 96.6   | 96.6   | 93.7   | 86.8   | 79.1   |      |     |     |     |     |      |

|                    | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.    | 0.  | 0.  | 0.  | 0.  | 0.  | PAL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|-----|-----|-------|
|                    | (1.02) | (1.10) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.   | (0. | (0. | (0. | (0. | (0. | )     |
| PRG#               | 53     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |       |
|                    | 43     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |       |
| RADIAL 17. FT.     | 60     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |       |
| ( 9. M)            | 100    | 66.5   | 72.5   | 76.2   | 78.4   | 78.5   | 77.3   | 75.2   | 70.4   | 71.2   | 75.6   | 77.0  |     |     |     |     |     | 110.3 |
| VEHICLE R-35       | 125    | 69.5   | 68.0   | 69.0   | 67.0   | 72.5   | 68.0   | 68.4   | 72.2   | 72.7   | 73.7   | 76.1  |     |     |     |     |     | 105.0 |
| CONFIG TP-24       | 100    | 65.0   | 66.3   | 67.7   | 67.1   | 68.0   | 68.0   | 69.4   | 71.7   | 73.2   | 75.7   | 76.6  |     |     |     |     |     | 104.0 |
| LOC SCHENECTADY    | 200    | 65.3   | 65.0   | 66.2   | 67.4   | 69.5   | 71.0   | 71.9   | 73.0   | 74.4   | 76.0   | 77.0  |     |     |     |     |     | 105.0 |
| DATE 1/8/75        | 250    | 67.5   | 67.7   | 69.7   | 70.0   | 71.5   | 72.3   | 73.4   | 73.2   | 73.0   | 75.4   | 76.3  |     |     |     |     |     | 106.2 |
| RUN 44/6           | 315    | 68.0   | 69.2   | 71.2   | 72.1   | 72.0   | 72.8   | 73.7   | 74.2   | 74.0   | 76.2   | 75.0  |     |     |     |     |     | 106.0 |
| TAPE               | 400    | 67.0   | 67.7   | 69.4   | 70.7   | 71.3   | 72.5   | 73.7   | 74.4   | 75.2   | 75.4   | 76.6  |     |     |     |     |     | 106.0 |
| BAR 29.9 HG        | 500    | 66.1   | 66.0   | 66.4   | 70.7   | 71.0   | 72.5   | 73.0   | 73.7   | 73.7   | 74.2   | 73.3  |     |     |     |     |     | 106.0 |
| (100000. N/M2)     | 630    | 67.4   | 68.0   | 70.7   | 72.7   | 74.1   | 75.3   | 76.2   | 76.4   | 76.0   | 77.5   | 76.0  |     |     |     |     |     | 106.0 |
| TAMB 50. DEG F     | 800    | 68.0   | 70.3   | 72.4   | 74.2   | 74.0   | 75.0   | 76.0   | 76.4   | 76.9   | 77.4   | 73.0  |     |     |     |     |     | 109.0 |
| (263. DEG K)       | 1000   | 69.1   | 70.7   | 73.0   | 74.4   | 74.0   | 76.0   | 76.2   | 76.7   | 69.7   | 76.4   | 74.1  |     |     |     |     |     | 110.0 |
| TMET 45. DEG F     | 1250   | 75.0   | 76.3   | 80.4   | 83.2   | 83.0   | 87.3   | 88.7   | 88.0   | 88.0   | 86.2   | 80.0  |     |     |     |     |     | 119.0 |
| (200. DEG K)       | 1600   | 75.1   | 76.3   | 79.4   | 81.0   | 82.0   | 85.1   | 86.0   | 87.2   | 86.4   | 83.0   | 77.3  |     |     |     |     |     | 117.0 |
| MACT 0.37 CM/M3    | 2000   | 73.4   | 75.0   | 76.0   | 78.3   | 80.0   | 83.0   | 85.4   | 85.1   | 85.2   | 81.2   | 76.0  |     |     |     |     |     | 110.0 |
| (.00637 KG/M3)     | 2500   | 77.4   | 79.0   | 81.1   | 86.0   | 87.2   | 90.4   | 93.1   | 96.1   | 96.4   | 94.0   | 89.0  |     |     |     |     |     | 125.4 |
| NFA 5503. RPM      | 3150   | 75.1   | 76.3   | 80.1   | 84.3   | 86.7   | 88.0   | 91.3   | 92.0   | 93.2   | 89.5   | 83.0  |     |     |     |     |     | 122.0 |
| ( 576. RAD/SEC)    | 4000   | 76.0   | 81.0   | 83.3   | 88.1   | 91.0   | 91.1   | 91.0   | 94.3   | 91.0   | 85.7   | 82.0  |     |     |     |     |     | 121.0 |
| NPK 5551. RPM      | 5000   | 73.3   | 77.7   | 78.7   | 84.0   | 87.1   | 89.0   | 91.2   | 91.4   | 91.0   | 86.2   | 81.2  |     |     |     |     |     | 121.0 |
| ( 501. RAD/SEC)    | 6300   | 73.0   | 76.5   | 78.0   | 84.4   | 86.7   | 90.7   | 90.0   | 93.2   | 91.1   | 84.0   | 81.3  |     |     |     |     |     | 122.0 |
| NFB 6623. RPM      | 8000   | 70.0   | 74.4   | 76.0   | 81.0   | 84.0   | 89.4   | 89.5   | 90.2   | 88.7   | 83.3   | 79.0  |     |     |     |     |     | 120.0 |
| ( 924. RAD/SEC)    | 10000  | 68.7   | 71.7   | 75.0   | 80.7   | 84.2   | 86.7   | 88.0   | 89.2   | 88.0   | 83.0   | 78.0  |     |     |     |     |     | 119.0 |
| NO. OF BLADES 15   | 12500  | 67.0   | 69.0   | 73.1   | 79.2   | 82.0   | 85.0   | 87.1   | 87.0   | 86.7   | 81.0   | 77.0  |     |     |     |     |     | 110.1 |
| FAN TIP SPEED      | 16000  | 65.1   | 66.0   | 69.0   | 75.1   | 79.0   | 82.3   | 83.0   | 85.0   | 84.0   | 78.0   | 74.3  |     |     |     |     |     | 110.7 |
| 480. FT/SEC        | 20000  | 64.0   | 65.2   | 68.4   | 74.0   | 77.1   | 80.0   | 82.0   | 84.5   | 83.7   | 77.0   | 72.3  |     |     |     |     |     | 114.0 |
|                    | 25000  | 64.1   | 65.0   | 68.0   | 72.1   | 75.5   | 77.0   | 79.0   | 81.0   | 81.0   | 75.2   | 70.1  |     |     |     |     |     | 112.0 |
|                    | 31500  | 64.4   | 64.0   | 66.5   | 71.1   | 75.0   | 77.0   | 79.3   | 80.0   | 80.3   | 74.4   | 68.5  |     |     |     |     |     | 113.1 |
|                    | 40000  | 65.3   | 64.4   | 66.5   | 69.3   | 72.0   | 74.3   | 76.5   | 77.0   | 77.3   | 72.7   | 66.0  |     |     |     |     |     | 111.0 |
|                    | 50000  | 66.2   | 66.5   | 68.5   | 69.1   | 71.0   | 72.0   | 74.2   | 73.7   | 73.3   | 70.1   | 67.2  |     |     |     |     |     | 111.1 |
|                    | 63000  | 70.5   | 66.7   | 70.8   | 69.0   | 70.0   | 71.4   | 71.2   | 71.0   | 69.0   | 70.0   | 69.0  |     |     |     |     |     | 113.1 |
|                    | 80000  | 73.4   | 70.0   | 72.4   | 70.5   | 70.0   | 71.0   | 71.0   | 71.3   | 70.3   | 71.3   | 70.0  |     |     |     |     |     | 110.2 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |       |
| OVERALL CALCULATED |        | 66.2   | 66.0   | 91.0   | 94.0   | 97.2   | 99.3   | 100.0  | 102.0  | 101.0  | 96.1   | 94.1  |     |     |     |     |     | 132.0 |
| PRG#               |        | 99.2   | 102.0  | 104.7  | 100.0  | 111.4  | 112.3  | 112.0  | 115.0  | 115.5  | 112.0  | 100.0 |     |     |     |     |     |       |

ORIGINAL PAGE IS  
OF POOR QUALITY

MODEL SOUND PRESSURE LEVELS 100, DEG. F., 70 PERCENT REL. HUM., NAT'L  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

PROC. DATE - MONTH 3 DAY 10 AM, 12.3

|                             | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 135.   | 149.   | 190.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
| FREQ.                       | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | 10.  | 110. | 110. | 110. | 110. | 110. |
| SIDELINE 200. FT.           | 50     | 53     |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| ( 60.00 N)                  | 100    | 45.3   | 50.3   | 56.4   | 57.0   | 56.0   | 55.2   | 52.3   | 46.6   | 45.0   | 47.0   | 40.2 |      |      |      |      |      |
| VEHICLE R-35                | 125    | 46.4   | 45.7   | 48.1   | 46.2   | 50.8   | 46.7   | 45.7   | 46.3   | 47.2   | 45.0   | 44.0 |      |      |      |      |      |
| CONFIC TP-26                | 160    | 42.0   | 43.0   | 45.0   | 45.4   | 46.2   | 45.0   | 46.0   | 47.7   | 47.0   | 47.7   | 40.7 |      |      |      |      |      |
| LOC SCHEMECTABY             | 200    | 42.0   | 42.5   | 44.2   | 45.0   | 47.6   | 48.7   | 46.0   | 49.0   | 46.7   | 48.0   | 45.7 |      |      |      |      |      |
| BATE 1/8/73                 | 250    | 44.1   | 45.2   | 47.0   | 47.0   | 49.0   | 49.0   | 50.4   | 49.0   | 46.1   | 47.1   | 44.0 |      |      |      |      |      |
| RUN 44/6                    | 315    | 45.3   | 46.0   | 49.0   | 50.2   | 50.0   | 50.3   | 50.5   | 49.0   | 46.0   | 47.7   | 43.2 |      |      |      |      |      |
| TAPE                        | 400    | 43.0   | 45.0   | 47.2   | 48.0   | 49.2   | 50.0   | 50.4   | 50.0   | 49.1   | 46.0   | 41.7 |      |      |      |      |      |
| BAR 20.0 MC                 | 500    | 42.4   | 43.0   | 46.1   | 46.5   | 49.3   | 49.0   | 50.0   | 49.2   | 47.4   | 45.4   | 40.2 |      |      |      |      |      |
| (100000. N/M <sup>2</sup> ) | 630    | 43.3   | 45.0   | 46.2   | 50.4   | 51.7   | 52.6   | 52.7   | 51.0   | 50.5   | 48.4   | 41.1 |      |      |      |      |      |
| TAMB 50. DEG F              | 800    | 44.0   | 47.2   | 49.0   | 51.0   | 52.4   | 52.7   | 53.3   | 53.0   | 52.4   | 48.2   | 40.0 |      |      |      |      |      |
| (203. DEG R)                | 1000   | 45.0   | 47.5   | 51.2   | 51.0   | 52.2   | 53.0   | 54.4   | 54.7   | 53.9   | 48.0   | 39.0 |      |      |      |      |      |
| THEY 45. DEG F              | 1250   | 51.4   | 54.0   | 57.0   | 60.0   | 61.2   | 64.2   | 64.0   | 63.0   | 62.0   | 56.4   | 40.0 |      |      |      |      |      |
| (200. DEG R)                | 1600   | 50.7   | 54.7   | 56.4   | 58.2   | 58.0   | 61.0   | 62.0   | 61.0   | 59.2   | 52.0   | 42.3 |      |      |      |      |      |
| WACT 0.37 CM/M <sup>3</sup> | 2000   | 40.7   | 51.0   | 53.7   | 55.3   | 57.0   | 60.1   | 61.1   | 59.0   | 57.7   | 50.0   | 41.0 |      |      |      |      |      |
| (.00037 KG/M <sup>3</sup> ) | 2500   | 52.5   | 55.0   | 57.0   | 63.4   | 63.0   | 66.7   | 66.0   | 70.3   | 66.7   | 63.2   | 53.4 |      |      |      |      |      |
| NFA 5503. RPM               | 3150   | 49.0   | 54.1   | 56.3   | 60.0   | 63.2   | 64.0   | 66.5   | 66.7   | 65.0   | 58.1   | 40.3 |      |      |      |      |      |
| ( 576. RAD/SEC)             | 4000   | 51.1   | 57.1   | 59.2   | 64.2   | 67.7   | 66.7   | 66.5   | 67.6   | 62.0   | 53.5   | 43.0 |      |      |      |      |      |
| NFA 5551. RPM               | 5000   | 47.2   | 52.0   | 55.4   | 60.0   | 62.0   | 64.4   | 65.0   | 64.4   | 62.0   | 53.4   | 42.2 |      |      |      |      |      |
| ( 501. RAD/SEC)             | 6300   | 47.0   | 50.0   | 54.0   | 59.0   | 61.0   | 63.4   | 64.0   | 63.3   | 60.7   | 50.7   | 40.2 |      |      |      |      |      |
| NFB 6023. RPM               | 8000   | 42.0   | 47.0   | 51.0   | 56.0   | 58.0   | 62.0   | 61.0   | 60.0   | 56.7   | 47.0   | 38.3 |      |      |      |      |      |
| ( 924. RAD/SEC)             | 10000  | 36.0   | 43.2   | 47.3   | 53.3   | 56.7   | 58.0   | 59.7   | 57.0   | 54.2   | 44.2   | 29.0 |      |      |      |      |      |
| NO. OF BLADES IS            | 12500  | 35.4   | 39.0   | 43.1   | 49.7   | 52.0   | 55.2   | 55.3   | 53.4   | 49.0   | 37.2   | 21.7 |      |      |      |      |      |
| FAN TIP SPEED               | 10000  | 29.3   | 32.1   | 36.3   | 42.0   | 45.7   | 46.1   | 46.0   | 46.0   | 41.4   | 27.0   | 0.3  |      |      |      |      |      |
| 400. FT/SEC                 | 20000  | 22.1   | 26.3   | 29.0   | 36.1   | 38.0   | 40.7   | 41.5   | 39.0   | 33.0   | 17.2   |      |      |      |      |      |      |
|                             | 25000  | 13.0   | 17.7   | 21.4   | 27.4   | 30.3   | 31.4   | 30.7   | 27.0   | 20.1   | 0.0    |      |      |      |      |      |      |
|                             | 31500  | 2.0    | 6.5    | 10.0   | 16.0   | 20.0   | 20.1   | 18.0   | 14.1   | 3.5    |        |      |      |      |      |      |      |
|                             | 40000  |        |        |        | 2.0    | 1.0    |        |        |        |        |        |      |      |      |      |      |      |
|                             | 50000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                             | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                             | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| OVERALL CALCULATED          | 60.0   | 64.0   | 67.1   | 70.0   | 73.0   | 74.6   | 75.2   | 75.0   | 73.1   | 60.0   | 64.3   |      |      |      |      |      |      |
| PNDB                        | 73.7   | 76.3   | 80.7   | 84.0   | 87.6   | 88.0   | 88.7   | 88.4   | 87.3   | 81.3   | 71.0   |      |      |      |      |      |      |





MODEL SOUND PRESSURE LEVELS (30, 40, 50, 60, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND MAGNITUDE)

|                    | 30     | 40     | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0      | 0      | 0      | 0      | 0      | 0      |  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| FREQ.              | (1.02) | (1.10) | (1.18) | (1.26) | (1.35) | (1.44) | (1.53) | (1.63) | (1.73) | (1.83) | (1.94) | (2.04) | (2.15) | (2.26) | (2.37) | (2.48) | (2.60) | (2.71) | (2.83) |  |
| SIDELINE 200. FT.  | 0.4    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| ( 60.00 #1         | 100    | 44.2   | 49.5   | 50.4   | 55.4   | 55.0   | 55.0   | 52.2   | 40.4   | 46.0   | 40.0   | 40.7   |        |        |        |        |        |        |        |  |
| VEHICLE 4-35       | 125    | 44.0   | 42.7   | 34.0   | 40.3   | 50.0   | 46.0   | 45.7   | 47.0   | 48.2   | 40.0   | 44.0   |        |        |        |        |        |        |        |  |
| CONFIC 29          | 100    | 41.2   | 50.0   | 30.0   | 44.5   | 45.3   | 45.0   | 47.1   | 47.2   | 47.0   | 40.0   | 44.0   |        |        |        |        |        |        |        |  |
| LDC SCHEMECTABT    | 200    | 41.1   | 61.3   | 30.7   | 43.0   | 40.1   | 40.0   | 40.7   | 50.1   | 40.7   | 40.0   | 40.7   |        |        |        |        |        |        |        |  |
| DATE 1/9/75        | 250    | 43.0   | 62.2   | 33.1   | 40.5   | 40.1   | 40.4   | 50.1   | 40.0   | 40.3   | 47.0   | 44.0   |        |        |        |        |        |        |        |  |
| RUN 45/4           | 315    | 45.0   | 64.1   | 34.0   | 40.7   | 50.2   | 50.0   | 50.3   | 50.1   | 40.2   | 47.7   | 43.7   |        |        |        |        |        |        |        |  |
| TAPE               | 400    | 43.0   | 60.7   | 32.7   | 47.9   | 40.4   | 30.0   | 30.2   | 30.3   | 40.0   | 47.1   | 41.0   |        |        |        |        |        |        |        |  |
| BAR 29.7 HG        | 500    | 41.0   | 60.0   | 30.0   | 47.1   | 40.1   | 40.0   | 50.3   | 40.0   | 47.0   | 40.0   | 40.2   |        |        |        |        |        |        |        |  |
| 100220, 4/7/71     | 630    | 43.4   | 61.0   | 33.0   | 50.5   | 51.7   | 52.0   | 53.0   | 52.0   | 51.0   | 40.4   | 41.4   |        |        |        |        |        |        |        |  |
| TANG 40, DEG F     | 800    | 43.0   | 61.4   | 34.1   | 51.1   | 51.0   | 52.2   | 53.0   | 53.0   | 52.0   | 40.0   | 40.0   |        |        |        |        |        |        |        |  |
| (203, DEG K)       | 1000   | 44.4   | 62.0   | 35.2   | 51.2   | 52.0   | 53.0   | 54.7   | 53.2   | 54.2   | 40.4   | 39.7   |        |        |        |        |        |        |        |  |
| TILT 40, DEG F     | 1250   | 50.0   | 60.2   | 40.0   | 50.7   | 62.0   | 63.0   | 63.0   | 64.0   | 62.7   | 50.7   | 40.0   |        |        |        |        |        |        |        |  |
| (201, DEG K)       | 1000   | 49.3   | 60.2   | 40.4   | 57.0   | 60.3   | 61.0   | 62.0   | 61.3   | 60.0   | 53.1   | 42.0   |        |        |        |        |        |        |        |  |
| WACT 7.20 CMPS     | 2000   | 47.0   | 60.3   | 39.0   | 50.0   | 50.0   | 50.0   | 50.1   | 51.3   | 50.1   | 57.7   | 51.0   | 40.7   |        |        |        |        |        |        |  |
| (.00720 CM/MS)     | 2500   | 51.7   | 70.0   | 41.0   | 60.7   | 64.0   | 65.0   | 65.0   | 65.0   | 65.7   | 55.0   | 40.2   |        |        |        |        |        |        |        |  |
| WFA 5510. RPM      | 3150   | 40.0   | 60.0   | 41.2   | 60.2   | 63.0   | 64.0   | 65.0   | 63.7   | 63.0   | 53.3   | 44.1   |        |        |        |        |        |        |        |  |
| ( 577, RAD/SEC)    | 4000   | 50.5   | 70.0   | 40.7   | 60.0   | 71.0   | 71.0   | 70.7   | 60.3   | 64.2   | 54.4   | 44.0   |        |        |        |        |        |        |        |  |
| RPM 5504. RPM      | 5000   | 47.1   | 60.3   | 41.4   | 61.2   | 63.7   | 63.1   | 63.4   | 64.1   | 61.0   | 52.7   | 41.0   |        |        |        |        |        |        |        |  |
| ( 503, RAD/SEC)    | 6300   | 40.0   | 60.3   | 39.0   | 50.1   | 63.0   | 63.0   | 64.3   | 63.0   | 60.7   | 50.7   | 30.0   |        |        |        |        |        |        |        |  |
| RPM 6023. RPM      | 8000   | 42.2   | 62.0   | 38.5   | 50.5   | 59.0   | 61.0   | 60.3   | 60.0   | 60.0   | 40.0   | 30.0   |        |        |        |        |        |        |        |  |
| ( 520, RAD/SEC)    | 10000  | 30.4   | 50.0   | 33.2   | 54.5   | 57.1   | 50.0   | 50.4   | 57.3   | 54.0   | 44.1   | 20.7   |        |        |        |        |        |        |        |  |
| NO. OF BLADES IS   | 12330  | 35.4   | 54.4   | 29.3   | 50.4   | 53.0   | 54.0   | 55.4   | 54.1   | 40.4   | 37.0   | 20.0   |        |        |        |        |        |        |        |  |
| PAN TIP SPEED      | 16000  | 27.1   | 47.7   | 22.7   | 42.1   | 45.0   | 40.0   | 40.3   | 40.4   | 40.0   | 20.0   | 7.4    |        |        |        |        |        |        |        |  |
| 401. FT/SEC        | 20000  | 10.1   | 40.0   | 10.0   | 30.7   | 30.0   | 40.0   | 40.0   | 39.0   | 32.3   | 10.0   |        |        |        |        |        |        |        |        |  |
|                    | 25000  | 10.2   | 33.0   | 0.4    | 20.2   | 30.3   | 30.4   | 20.0   | 27.1   | 19.0   | 0.0    |        |        |        |        |        |        |        |        |  |
|                    | 31500  |        | 22.0   |        | 10.3   | 10.7   | 10.3   | 17.0   | 12.0   | 0.4    |        |        |        |        |        |        |        |        |        |  |
|                    | 40000  |        | 0.2    |        |        | 1.1    | 1.0    |        |        |        |        |        |        |        |        |        |        |        |        |  |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| OVERALL CALCULATED | 4120   | 60.0   | 60.0   | 52.0   | 72.3   | 70.1   | 70.7   | 70.3   | 73.0   | 72.2   | 64.3   | 60.5   |        |        |        |        |        |        |        |  |
| FROM               | 7000   | 73.0   | 66.0   | 67.0   | 67.0   | 60.2   | 60.0   | 60.1   | 67.1   | 60.0   | 77.0   | 60.0   |        |        |        |        |        |        |        |  |

| PARAMETER          | VAL   | ANGLE FROM INLET IN DEGREES (AND RADIANS) |       |      |       |       |       |       |       |       |       |       |   |   |   |   |   | VAL   |
|--------------------|-------|---|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|---|---|---|---|---|-------|
|                    |       | 30  | 60    | 70   | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 0 | 0 | 0 | 0 | 0 |       |
| VEHICLE            | 100   | 69.0                                      | 67.0  | 50.2 | 73.1  | 75.3  | 79.0  | 73.0  | 72.7  | 73.0  | 77.0  | 60.0  |   |   |   |   |   | 112.0 |
| CONFIG             | 120   | 69.0                                      | 65.0  | 57.7 | 70.9  | 73.3  | 72.3  | 71.7  | 74.4  | 70.2  | 70.2  | 60.0  |   |   |   |   |   | 111.0 |
| LOC SCHEMATIC      | 100   | 67.2                                      | 64.0  | 54.4 | 70.1  | 70.5  | 71.0  | 73.4  | 74.9  | 70.7  | 70.2  | 60.3  |   |   |   |   |   | 110.9 |
| DATE 1/8/75        | 230   | 69.7                                      | 69.7  | 57.0 | 73.4  | 74.9  | 79.5  | 70.2  | 70.7  | 70.2  | 70.7  | 60.1  |   |   |   |   |   | 111.9 |
| RUM 45/5           | 315   | 71.7                                      | 67.7  | 50.0 | 75.1  | 75.0  | 77.3  | 70.4  | 77.4  | 70.4  | 70.9  | 70.0  |   |   |   |   |   | 114.0 |
| TAPE               | 400   | 70.2                                      | 60.0  | 57.2 | 75.1  | 74.3  | 77.0  | 70.2  | 77.4  | 70.2  | 70.9  | 70.1  |   |   |   |   |   | 117.7 |
| BAR 29.7 MC        | 600   | 60.3                                      | 64.3  | 58.0 | 74.7  | 74.3  | 74.5  | 70.7  | 70.7  | 77.7  | 70.4  | 70.0  |   |   |   |   |   | 111.7 |
| (00220, 4/M2)      | 630   | 70.3                                      | 67.0  | 50.7 | 75.7  | 77.3  | 70.0  | 70.2  | 70.9  | 60.4  | 60.0  | 70.1  |   |   |   |   |   | 114.3 |
| TAMP 40, DEG F     | 600   | 70.5                                      | 67.0  | 50.4 | 70.7  | 77.3  | 70.3  | 70.7  | 61.4  | 61.4  | 70.0  | 77.1  |   |   |   |   |   | 114.0 |
| (203, DEG K)       | 1000  | 71.0                                      | 64.0  | 60.4 | 70.4  | 77.3  | 70.1  | 60.4  | 61.7  | 62.0  | 70.7  | 70.3  |   |   |   |   |   | 115.2 |
| THEY 40, DEG F     | 1200  | 73.1                                      | 61.3  | 62.4 | 70.0  | 61.4  | 62.0  | 64.4  | 65.7  | 65.0  | 61.7  | 70.1  |   |   |   |   |   | 110.0 |
| (201, DEG K)       | 1600  | 61.0                                      | 60.3  | 70.2 | 67.5  | 60.1  | 61.4  | 62.4  | 61.9  | 61.0  | 60.7  | 60.0  |   |   |   |   |   | 120.3 |
| MAGY 7.20 CM/K3    | 2000  | 70.1                                      | 63.0  | 64.2 | 63.0  | 65.4  | 60.4  | 60.4  | 60.9  | 60.2  | 62.7  | 70.0  |   |   |   |   |   | 121.7 |
| (00720, 40/M3)     | 2300  | 75.3                                      | 69.1  | 64.0 | 65.0  | 67.7  | 60.0  | 61.4  | 60.4  | 60.7  | 64.7  | 60.3  |   |   |   |   |   | 123.0 |
| MFA 6200, RPM      | 3150  | 70.3                                      | 67.0  | 60.4 | 69.3  | 61.7  | 65.4  | 65.0  | 65.3  | 65.7  | 62.0  | 67.0  |   |   |   |   |   | 127.0 |
| ( 650, RAD/SEC)    | 4000  | 77.0                                      | 66.5  | 60.5 | 60.0  | 61.4  | 63.3  | 64.0  | 63.7  | 62.0  | 60.7  | 62.7  |   |   |   |   |   | 120.1 |
| MFA 6352, RPM      | 5000  | 62.4                                      | 60.0  | 73.7 | 60.0  | 64.1  | 100.0 | 60.7  | 67.4  | 64.0  | 60.0  | 60.4  |   |   |   |   |   | 120.1 |
| ( 600, 400/SEC)    | 6300  | 70.4                                      | 67.0  | 70.2 | 64.0  | 60.7  | 62.5  | 64.4  | 65.0  | 63.0  | 67.3  | 62.7  |   |   |   |   |   | 120.3 |
| MFB 6023, RPM      | 6000  | 74.3                                      | 63.0  | 64.0 | 67.0  | 60.1  | 62.0  | 64.4  | 63.2  | 62.1  | 60.0  | 61.0  |   |   |   |   |   | 120.3 |
| ( 620, RAD/SEC)    | 10000 | 73.3                                      | 62.7  | 60.0 | 67.0  | 60.0  | 62.0  | 62.7  | 64.1  | 62.7  | 60.0  | 61.2  |   |   |   |   |   | 120.1 |
| NO. OF BLADES IS   | 12500 | 71.5                                      | 60.0  | 65.0 | 64.0  | 67.5  | 60.0  | 62.0  | 62.4  | 60.0  | 64.0  | 70.2  |   |   |   |   |   | 123.4 |
| PAN TIP SPEED      | 10000 | 67.7                                      | 60.7  | 60.0 | 61.0  | 63.0  | 60.7  | 60.3  | 60.5  | 67.0  | 61.7  | 70.4  |   |   |   |   |   | 120.0 |
| 340, FT/SEC        | 20000 | 65.0                                      | 64.0  | 60.2 | 70.3  | 62.4  | 64.5  | 67.2  | 60.1  | 67.1  | 60.7  | 75.1  |   |   |   |   |   | 110.0 |
|                    | 25000 | 63.0                                      | 63.3  | 50.3 | 77.1  | 70.7  | 62.1  | 65.1  | 60.6  | 64.7  | 70.0  | 72.4  |   |   |   |   |   | 110.0 |
|                    | 31500 | 62.3                                      | 62.3  | 50.7 | 75.0  | 70.2  | 60.7  | 63.0  | 64.0  | 63.3  | 77.1  | 70.0  |   |   |   |   |   | 117.3 |
|                    | 40000 | 60.0                                      | 61.3  | 54.2 | 73.2  | 75.5  | 70.0  | 60.0  | 61.2  | 70.0  | 74.0  | 67.0  |   |   |   |   |   | 110.1 |
|                    | 50000 | 62.0                                      | 62.7  | 57.7 | 71.0  | 73.2  | 70.1  | 77.4  | 77.3  | 70.2  | 72.0  | 60.3  |   |   |   |   |   | 110.3 |
|                    | 63000 | 64.0                                      | 63.2  | 60.3 | 70.2  | 60.0  | 72.3  | 72.4  | 72.7  | 71.2  | 71.0  | 67.0  |   |   |   |   |   | 117.0 |
|                    | 80000 | 67.7                                      | 60.4  | 62.3 | 71.1  | 70.0  | 72.3  | 71.0  | 72.2  | 70.7  | 72.2  | 70.2  |   |   |   |   |   | 123.0 |
| OVERALL MEASURED   |       |   |       |      |       |       |       |       |       |       |       |       |   |   |   |   |   |       |
| OVERALL CALCULATED |       | 60.0                                      | 67.2  | 60.0 | 60.3  | 60.0  | 64.3  | 64.0  | 64.0  | 63.4  | 60.0  | 64.7  |   |   |   |   |   | 127.1 |
| PN00               |       | 102.0                                     | 120.4 | 63.0 | 111.0 | 113.0 | 110.0 | 117.0 | 117.2 | 110.0 | 112.0 | 100.0 |   |   |   |   |   |       |

MODEL SOUND PRESSURE LEVELS (59. LEG. F. 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 59.    | 68.    | 78.    | 88.    | 98.    | 108.   | 118.   | 128.   | 138.   | 148.   | 158.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|-------|
| FREQ.              | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.  | (10. | (10. | (10. | (10. | (10.) |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |
| ( 60.98 M)         | 63     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |
| VEHICLE R-55       | 100    | 45.0   | 64.8   | 34.4   | 51.6   | 53.0   | 53.0   | 51.2   | 48.9   | 48.0   | 50.3   | 49.2 |      |      |      |      |       |
| CONFIG 4429        | 125    | 45.0   | 63.4   | 35.8   | 49.2   | 51.6   | 50.2   | 48.9   | 50.8   | 50.7   | 50.4   | 49.0 |      |      |      |      |       |
| LOC SCHEMECTADY    | 160    | 44.0   | 61.8   | 32.5   | 48.4   | 48.7   | 49.0   | 50.6   | 50.9   | 51.1   | 51.2   | 48.8 |      |      |      |      |       |
| DATE 1/9/75        | 200    | 43.9   | 60.8   | 32.9   | 48.1   | 51.1   | 52.2   | 52.5   | 53.1   | 53.0   | 52.0   | 50.2 |      |      |      |      |       |
| RUN 45/5           | 250    | 46.3   | 63.2   | 35.3   | 51.5   | 52.1   | 53.2   | 53.1   | 52.5   | 52.3   | 51.4   | 47.7 |      |      |      |      |       |
| TAPE               | 315    | 48.2   | 65.1   | 36.8   | 53.2   | 53.7   | 54.8   | 53.3   | 53.1   | 52.5   | 51.8   | 47.2 |      |      |      |      |       |
| BAR 29.7 HG        | 400    | 46.8   | 63.2   | 34.9   | 51.1   | 52.2   | 54.5   | 52.9   | 53.0   | 52.1   | 50.3   | 45.2 |      |      |      |      |       |
| (100228. N/M2)     | 500    | 44.5   | 61.4   | 33.6   | 50.5   | 52.1   | 51.9   | 53.3   | 52.2   | 51.4   | 49.0   | 43.7 |      |      |      |      |       |
| TAMB 49. DEG F     | 630    | 46.4   | 64.0   | 36.2   | 53.4   | 55.0   | 56.8   | 55.7   | 55.3   | 54.0   | 50.9   | 44.6 |      |      |      |      |       |
| (283. DEG K)       | 800    | 46.6   | 64.7   | 36.9   | 54.3   | 54.9   | 55.5   | 56.1   | 56.8   | 54.9   | 50.7   | 43.3 |      |      |      |      |       |
| TNET 46. DEG F     | 1000   | 46.9   | 64.8   | 37.7   | 53.9   | 54.7   | 56.1   | 56.7   | 56.7   | 56.2   | 50.2   | 42.2 |      |      |      |      |       |
| (281. DEG K)       | 1250   | 48.8   | 67.9   | 39.6   | 56.4   | 58.6   | 59.7   | 60.5   | 60.5   | 59.0   | 51.9   | 43.8 |      |      |      |      |       |
| MACT 7.26 CM/M3    | 1600   | 57.1   | 75.7   | 47.2   | 64.7   | 67.3   | 68.1   | 68.3   | 68.6   | 64.7   | 56.8   | 45.8 |      |      |      |      |       |
| (.00726 KG/M3)     | 2000   | 51.4   | 70.1   | 43.0   | 60.8   | 62.3   | 62.9   | 63.1   | 63.3   | 60.7   | 52.2   | 43.0 |      |      |      |      |       |
| NPA 6290. RPM      | 2500   | 50.4   | 71.1   | 43.3   | 62.4   | 64.4   | 65.2   | 66.9   | 64.6   | 62.9   | 53.9   | 44.2 |      |      |      |      |       |
| ( 659. RAD/SEC)    | 3150   | 53.1   | 73.6   | 45.7   | 65.9   | 68.2   | 71.9   | 70.6   | 69.2   | 67.5   | 61.1   | 50.1 |      |      |      |      |       |
| NPK 6352. RPM      | 4000   | 51.2   | 71.8   | 45.5   | 65.0   | 67.4   | 68.9   | 68.7   | 67.8   | 64.0   | 54.4   | 44.8 |      |      |      |      |       |
| ( 685. RAD/SEC)    | 5000   | 56.4   | 74.5   | 49.4   | 65.9   | 69.9   | 75.3   | 73.1   | 74.4   | 65.8   | 56.2   | 48.8 |      |      |      |      |       |
| NFB 8823. RPM      | 6300   | 49.6   | 71.3   | 45.1   | 64.1   | 65.9   | 67.1   | 68.1   | 67.8   | 63.4   | 53.2   | 41.7 |      |      |      |      |       |
| ( 924. RAD/SEC)    | 8000   | 46.2   | 67.0   | 40.8   | 61.7   | 64.1   | 66.1   | 66.8   | 63.8   | 60.1   | 49.7   | 38.8 |      |      |      |      |       |
| NO. OF BLADES 15   | 10000  | 43.4   | 64.2   | 39.2   | 60.2   | 62.4   | 64.8   | 63.4   | 62.8   | 58.4   | 47.4   | 32.4 |      |      |      |      |       |
| FAN TIP SPEED      | 12500  | 38.9   | 59.7   | 35.8   | 55.3   | 57.8   | 59.6   | 60.2   | 58.3   | 52.9   | 40.8   | 23.8 |      |      |      |      |       |
| 549. FT/SEC        | 16300  | 30.8   | 51.9   | 27.2   | 47.8   | 50.8   | 52.4   | 52.3   | 51.8   | 44.8   | 30.8   | 18.2 |      |      |      |      |       |
| 25000              | 20000  | 23.1   | 44.6   | 21.7   | 41.4   | 44.3   | 45.3   | 45.8   | 44.0   | 36.3   | 28.0   |      |      |      |      |      |       |
| 31500              | 25000  | 13.3   | 38.0   | 12.9   | 32.4   | 34.8   | 35.7   | 35.9   | 32.8   | 23.3   | 4.1    |      |      |      |      |      |       |
| 40800              | 31500  |        | 24.2   | 1.1    | 21.2   | 23.2   | 23.8   | 22.8   | 17.9   | 8.4    |        |      |      |      |      |      |       |
| 50800              | 40800  |        | 7.2    |        | 3.8    | 5.8    | 5.8    | 3.2    |        |        |        |      |      |      |      |      |       |
| 63000              | 50800  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |
| 80800              | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |
| OVERALL CALCULATED |        | 63.8   | 62.6   | 65.5   | 73.9   | 76.4   | 79.3   | 78.8   | 78.8   | 73.9   | 66.7   | 59.4 |      |      |      |      |       |
| PND8               |        | 76.8   | 95.8   | 89.2   | 87.8   | 98.8   | 93.6   | 92.5   | 90.8   | 88.2   | 81.4   | 71.8 |      |      |      |      |       |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PHCC DATE = MONTH 3 DAY 31 YR. 1963

MODEL SOUND PRESSURE LEVELS 150. LEG. P. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 50.     | 60.       | 70.       | 80.       | 90.       | 100.      | 110.      | 120.      | 130.      | 140.      | 150.      | 0.        | 0.        | 0.        | 0.        | 0.        | PHL   |
|--------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| FREQ.              | (1.02)  | (1.19)    | (1.36)    | (1.53)    | (1.71)    | (1.88)    | (2.06)    | (2.24)    | (2.42)    | (2.60)    | (2.78)    | (0.       | (10.      | (16.      | (10.      | (10.      | (10.) |
| RADIAL 17. FT.     | 50      | 53        | 56        | 59        | 62        | 65        | 68        | 71        | 74        | 77        | 80        | 83        | 86        | 89        | 92        | 95        | 110.0 |
| VEHICLE 1 5. MI    | 100     | 106.3     | 112.7     | 119.1     | 125.5     | 131.9     | 138.3     | 144.7     | 151.1     | 157.5     | 163.9     | 170.3     | 176.7     | 183.1     | 189.5     | 195.9     | 110.7 |
| CONFIG N-55        | 125     | 125.3     | 131.7     | 138.1     | 144.5     | 150.9     | 157.3     | 163.7     | 170.1     | 176.5     | 182.9     | 189.3     | 195.7     | 202.1     | 208.5     | 214.9     | 110.7 |
| LOC SCHEMECTADY    | 160     | 160.6     | 167.0     | 173.4     | 179.8     | 186.2     | 192.6     | 199.0     | 205.4     | 211.8     | 218.2     | 224.6     | 231.0     | 237.4     | 243.8     | 250.2     | 114.5 |
| DATE 1/9/75        | 250     | 250.6     | 257.0     | 263.4     | 269.8     | 276.2     | 282.6     | 289.0     | 295.4     | 301.8     | 308.2     | 314.6     | 321.0     | 327.4     | 333.8     | 340.2     | 114.5 |
| A 45/0             | 315     | 315.6     | 322.0     | 328.4     | 334.8     | 341.2     | 347.6     | 354.0     | 360.4     | 366.8     | 373.2     | 379.6     | 386.0     | 392.4     | 398.8     | 405.2     | 116.3 |
| TAPE               | 400     | 400.6     | 407.0     | 413.4     | 419.8     | 426.2     | 432.6     | 439.0     | 445.4     | 451.8     | 458.2     | 464.6     | 471.0     | 477.4     | 483.8     | 490.2     | 117.5 |
| BAR 20.7 MG        | 500     | 500.6     | 507.0     | 513.4     | 519.8     | 526.2     | 532.6     | 539.0     | 545.4     | 551.8     | 558.2     | 564.6     | 571.0     | 577.4     | 583.8     | 590.2     | 117.5 |
| (10220. N/M2)      | 630     | 630.6     | 637.0     | 643.4     | 649.8     | 656.2     | 662.6     | 669.0     | 675.4     | 681.8     | 688.2     | 694.6     | 701.0     | 707.4     | 713.8     | 720.2     | 117.5 |
| TAMP 50. DEG F     | 800     | 800.6     | 807.0     | 813.4     | 819.8     | 826.2     | 832.6     | 839.0     | 845.4     | 851.8     | 858.2     | 864.6     | 871.0     | 877.4     | 883.8     | 890.2     | 117.7 |
| (283. DEG K)       | 1000    | 1000.6    | 1007.0    | 1013.4    | 1019.8    | 1026.2    | 1032.6    | 1039.0    | 1045.4    | 1051.8    | 1058.2    | 1064.6    | 1071.0    | 1077.4    | 1083.8    | 1090.2    | 117.7 |
| (40. DEG F)        | 1250    | 1250.6    | 1257.0    | 1263.4    | 1269.8    | 1276.2    | 1282.6    | 1289.0    | 1295.4    | 1301.8    | 1308.2    | 1314.6    | 1321.0    | 1327.4    | 1333.8    | 1340.2    | 119.0 |
| (281. DEG K)       | 1800    | 1800.6    | 1807.0    | 1813.4    | 1819.8    | 1826.2    | 1832.6    | 1839.0    | 1845.4    | 1851.8    | 1858.2    | 1864.6    | 1871.0    | 1877.4    | 1883.8    | 1890.2    | 119.0 |
| MACT 0.06 G/M3     | 2000    | 2000.6    | 2007.0    | 2013.4    | 2019.8    | 2026.2    | 2032.6    | 2039.0    | 2045.4    | 2051.8    | 2058.2    | 2064.6    | 2071.0    | 2077.4    | 2083.8    | 2090.2    | 120.7 |
| (.00006 G/M3)      | 2500    | 2500.6    | 2507.0    | 2513.4    | 2519.8    | 2526.2    | 2532.6    | 2539.0    | 2545.4    | 2551.8    | 2558.2    | 2564.6    | 2571.0    | 2577.4    | 2583.8    | 2590.2    | 120.7 |
| NFA 700. RPM       | 3150    | 3150.6    | 3157.0    | 3163.4    | 3169.8    | 3176.2    | 3182.6    | 3189.0    | 3195.4    | 3201.8    | 3208.2    | 3214.6    | 3221.0    | 3227.4    | 3233.8    | 3240.2    | 120.7 |
| (742. RAD/SEC)     | 4000    | 4000.6    | 4007.0    | 4013.4    | 4019.8    | 4026.2    | 4032.6    | 4039.0    | 4045.4    | 4051.8    | 4058.2    | 4064.6    | 4071.0    | 4077.4    | 4083.8    | 4090.2    | 120.7 |
| NFA 7145. RPM      | 5000    | 5000.6    | 5007.0    | 5013.4    | 5019.8    | 5026.2    | 5032.6    | 5039.0    | 5045.4    | 5051.8    | 5058.2    | 5064.6    | 5071.0    | 5077.4    | 5083.8    | 5090.2    | 120.7 |
| (740. RAD/SEC)     | 6300    | 6300.6    | 6307.0    | 6313.4    | 6319.8    | 6326.2    | 6332.6    | 6339.0    | 6345.4    | 6351.8    | 6358.2    | 6364.6    | 6371.0    | 6377.4    | 6383.8    | 6390.2    | 120.7 |
| NFB 8623. RPM      | 8030    | 8030.6    | 8037.0    | 8043.4    | 8049.8    | 8056.2    | 8062.6    | 8069.0    | 8075.4    | 8081.8    | 8088.2    | 8094.6    | 8101.0    | 8107.4    | 8113.8    | 8120.2    | 120.7 |
| (824. RAD/SEC)     | 10000   | 10000.6   | 10007.0   | 10013.4   | 10019.8   | 10026.2   | 10032.6   | 10039.0   | 10045.4   | 10051.8   | 10058.2   | 10064.6   | 10071.0   | 10077.4   | 10083.8   | 10090.2   | 120.7 |
| NO. OF BLADES IS   | 12500   | 12500.6   | 12507.0   | 12513.4   | 12519.8   | 12526.2   | 12532.6   | 12539.0   | 12545.4   | 12551.8   | 12558.2   | 12564.6   | 12571.0   | 12577.4   | 12583.8   | 12590.2   | 120.7 |
| PAN TIP SPEED      | 10000   | 10000.6   | 10007.0   | 10013.4   | 10019.8   | 10026.2   | 10032.6   | 10039.0   | 10045.4   | 10051.8   | 10058.2   | 10064.6   | 10071.0   | 10077.4   | 10083.8   | 10090.2   | 120.7 |
| 610. FT/SEC        | 20000   | 20000.6   | 20007.0   | 20013.4   | 20019.8   | 20026.2   | 20032.6   | 20039.0   | 20045.4   | 20051.8   | 20058.2   | 20064.6   | 20071.0   | 20077.4   | 20083.8   | 20090.2   | 120.7 |
| OVERALL MEASURED   | 25000   | 25000.6   | 25007.0   | 25013.4   | 25019.8   | 25026.2   | 25032.6   | 25039.0   | 25045.4   | 25051.8   | 25058.2   | 25064.6   | 25071.0   | 25077.4   | 25083.8   | 25090.2   | 120.6 |
| OVERALL CALCULATED | 31500   | 31500.6   | 31507.0   | 31513.4   | 31519.8   | 31526.2   | 31532.6   | 31539.0   | 31545.4   | 31551.8   | 31558.2   | 31564.6   | 31571.0   | 31577.4   | 31583.8   | 31590.2   | 121.0 |
|                    | 40000   | 40000.6   | 40007.0   | 40013.4   | 40019.8   | 40026.2   | 40032.6   | 40039.0   | 40045.4   | 40051.8   | 40058.2   | 40064.6   | 40071.0   | 40077.4   | 40083.8   | 40090.2   | 121.0 |
|                    | 50000   | 50000.6   | 50007.0   | 50013.4   | 50019.8   | 50026.2   | 50032.6   | 50039.0   | 50045.4   | 50051.8   | 50058.2   | 50064.6   | 50071.0   | 50077.4   | 50083.8   | 50090.2   | 121.0 |
|                    | 63000   | 63000.6   | 63007.0   | 63013.4   | 63019.8   | 63026.2   | 63032.6   | 63039.0   | 63045.4   | 63051.8   | 63058.2   | 63064.6   | 63071.0   | 63077.4   | 63083.8   | 63090.2   | 121.0 |
|                    | 80000   | 80000.6   | 80007.0   | 80013.4   | 80019.8   | 80026.2   | 80032.6   | 80039.0   | 80045.4   | 80051.8   | 80058.2   | 80064.6   | 80071.0   | 80077.4   | 80083.8   | 80090.2   | 121.0 |
|                    | 100000  | 100000.6  | 100007.0  | 100013.4  | 100019.8  | 100026.2  | 100032.6  | 100039.0  | 100045.4  | 100051.8  | 100058.2  | 100064.6  | 100071.0  | 100077.4  | 100083.8  | 100090.2  | 121.0 |
|                    | 125000  | 125000.6  | 125007.0  | 125013.4  | 125019.8  | 125026.2  | 125032.6  | 125039.0  | 125045.4  | 125051.8  | 125058.2  | 125064.6  | 125071.0  | 125077.4  | 125083.8  | 125090.2  | 121.0 |
|                    | 150000  | 150000.6  | 150007.0  | 150013.4  | 150019.8  | 150026.2  | 150032.6  | 150039.0  | 150045.4  | 150051.8  | 150058.2  | 150064.6  | 150071.0  | 150077.4  | 150083.8  | 150090.2  | 121.0 |
|                    | 175000  | 175000.6  | 175007.0  | 175013.4  | 175019.8  | 175026.2  | 175032.6  | 175039.0  | 175045.4  | 175051.8  | 175058.2  | 175064.6  | 175071.0  | 175077.4  | 175083.8  | 175090.2  | 121.0 |
|                    | 200000  | 200000.6  | 200007.0  | 200013.4  | 200019.8  | 200026.2  | 200032.6  | 200039.0  | 200045.4  | 200051.8  | 200058.2  | 200064.6  | 200071.0  | 200077.4  | 200083.8  | 200090.2  | 121.0 |
|                    | 250000  | 250000.6  | 250007.0  | 250013.4  | 250019.8  | 250026.2  | 250032.6  | 250039.0  | 250045.4  | 250051.8  | 250058.2  | 250064.6  | 250071.0  | 250077.4  | 250083.8  | 250090.2  | 121.0 |
|                    | 315000  | 315000.6  | 315007.0  | 315013.4  | 315019.8  | 315026.2  | 315032.6  | 315039.0  | 315045.4  | 315051.8  | 315058.2  | 315064.6  | 315071.0  | 315077.4  | 315083.8  | 315090.2  | 121.0 |
|                    | 400000  | 400000.6  | 400007.0  | 400013.4  | 400019.8  | 400026.2  | 400032.6  | 400039.0  | 400045.4  | 400051.8  | 400058.2  | 400064.6  | 400071.0  | 400077.4  | 400083.8  | 400090.2  | 121.0 |
|                    | 500000  | 500000.6  | 500007.0  | 500013.4  | 500019.8  | 500026.2  | 500032.6  | 500039.0  | 500045.4  | 500051.8  | 500058.2  | 500064.6  | 500071.0  | 500077.4  | 500083.8  | 500090.2  | 121.0 |
|                    | 630000  | 630000.6  | 630007.0  | 630013.4  | 630019.8  | 630026.2  | 630032.6  | 630039.0  | 630045.4  | 630051.8  | 630058.2  | 630064.6  | 630071.0  | 630077.4  | 630083.8  | 630090.2  | 121.0 |
|                    | 800000  | 800000.6  | 800007.0  | 800013.4  | 800019.8  | 800026.2  | 800032.6  | 800039.0  | 800045.4  | 800051.8  | 800058.2  | 800064.6  | 800071.0  | 800077.4  | 800083.8  | 800090.2  | 121.0 |
|                    | 1000000 | 1000000.6 | 1000007.0 | 1000013.4 | 1000019.8 | 1000026.2 | 1000032.6 | 1000039.0 | 1000045.4 | 1000051.8 | 1000058.2 | 1000064.6 | 1000071.0 | 1000077.4 | 1000083.8 | 1000090.2 | 121.0 |

NOVEL SOUND PRESSURE LEVELS 150, 160, 170 PERCENT NEL, MM, SAT

ANGLE FROM INLET IN DEGREES (AND HAZARD)

|                    | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.  | 0.   | 0.   | 0.   | 0.    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|------|------|------|-------|
| FREQ.              | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.  | (0. | (10. | (10. | (10. | (10.) |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |      |     |      |      |      |       |
| ( 00.00 M)         | 85     |        |        |        |        |        |        |        |        |        |        |      |     |      |      |      |       |
| VEHICLE R-55       | 100    | 45.2   | 55.0   | 30.9   | 51.3   | 51.9   | 51.7   | 7      | 49.9   | 51.3   | 53.0   | 53.2 |     |      |      |      |       |
| CONFIC 10429       | 125    | 52.1   | 72.4   | 43.0   | 57.2   | 50.1   | 55.7   | 9      | 54.1   | 54.5   | 53.9   | 52.3 |     |      |      |      |       |
| LOC SCHELECTADY    | 150    | 48.6   | 55.1   | 38.3   | 51.9   | 52.2   | 52.3   | 8      | 54.2   | 55.1   | 55.2   | 52.7 |     |      |      |      |       |
| DATE 1/9/75        | 200    | 48.7   | 63.8   | 38.2   | 52.1   | 54.4   | 55.5   | 5.2    | 56.3   | 56.0   | 56.0   | 53.7 |     |      |      |      |       |
| RUN 45/6           | 250    | 51.1   | 66.9   | 41.1   | 55.5   | 55.0   | 55.9   | 50.9   | 56.2   | 56.1   | 55.1   | 52.0 |     |      |      |      |       |
| TAPE               | 315    | 52.3   | 68.6   | 41.2   | 56.4   | 56.5   | 57.3   | 57.0   | 56.6   | 56.2   | 55.2   | 51.2 |     |      |      |      |       |
| BAR 29.7 MC        | 400    | 50.4   | 66.7   | 39.2   | 53.0   | 54.7   | 55.6   | 55.9   | 55.8   | 55.6   | 53.0   | 49.2 |     |      |      |      |       |
| (00228, N/M2)      | 500    | 48.6   | 64.1   | 38.3   | 53.5   | 54.8   | 54.7   | 56.3   | 55.7   | 54.7   | 53.1   | 47.9 |     |      |      |      |       |
| TAMB 50, DEG F     | 630    | 48.0   | 67.0   | 39.3   | 50.2   | 57.3   | 58.1   | 56.5   | 58.0   | 57.0   | 53.9   | 47.9 |     |      |      |      |       |
| (283, DEG K)       | 800    | 50.4   | 67.4   | 39.8   | 56.0   | 57.4   | 58.2   | 59.3   | 59.4   | 57.8   | 53.4   | 47.0 |     |      |      |      |       |
| TMET 40, DEG F     | 1000   | 50.5   | 67.5   | 40.7   | 56.2   | 56.7   | 56.6   | 59.4   | 59.2   | 57.7   | 52.7   | 45.2 |     |      |      |      |       |
| (201, DEG K)       | 1250   | 51.4   | 69.2   | 42.1   | 57.0   | 59.9   | 61.9   | 62.3   | 61.0   | 59.5   | 52.7   | 45.3 |     |      |      |      |       |
| MACT 6.98 CM/MS    | 1600   | 56.4   | 78.2   | 47.4   | 67.7   | 68.5   | 69.8   | 70.1   | 68.8   | 65.0   | 50.1   | 47.0 |     |      |      |      |       |
| (10696 KG/MS)      | 2000   | 57.4   | 76.1   | 48.5   | 67.8   | 69.3   | 70.6   | 71.8   | 68.8   | 64.9   | 57.0   | 48.0 |     |      |      |      |       |
| MFA 7683, RPM      | 2500   | 54.0   | 73.9   | 46.0   | 65.4   | 67.4   | 68.4   | 68.9   | 67.3   | 63.4   | 54.7   | 45.7 |     |      |      |      |       |
| ( 742, RAD/SEC)    | 3150   | 55.4   | 75.6   | 48.7   | 66.7   | 68.4   | 70.9   | 72.3   | 72.9   | 68.7   | 61.0   | 51.1 |     |      |      |      |       |
| MFA 7145, RPM      | 4000   | 55.1   | 75.6   | 50.0   | 69.7   | 70.7   | 71.7   | 73.7   | 73.9   | 68.2   | 62.0   | 50.3 |     |      |      |      |       |
| ( 748, RAD/SEC)    | 5000   | 55.7   | 77.3   | 53.2   | 73.2   | 71.9   | 73.6   | 76.1   | 71.2   | 67.3   | 58.2   | 48.8 |     |      |      |      |       |
| MFB 8023, RPM      | 6300   | 53.4   | 73.6   | 47.6   | 67.4   | 69.1   | 70.6   | 70.8   | 70.3   | 64.2   | 56.7   | 44.2 |     |      |      |      |       |
| ( 824, RAD/SEC)    | 8000   | 51.5   | 71.3   | 45.8   | 66.2   | 67.1   | 68.8   | 69.3   | 67.8   | 61.8   | 53.2   | 39.8 |     |      |      |      |       |
| NO. OF BLADES IS   | 10000  | 48.0   | 68.9   | 43.5   | 64.9   | 65.7   | 67.3   | 67.4   | 65.4   | 60.9   | 50.4   | 38.2 |     |      |      |      |       |
| FAN TIP SPEED      | 12500  | 43.6   | 63.7   | 40.1   | 59.0   | 62.8   | 63.1   | 63.7   | 61.8   | 54.9   | 44.1   | 28.8 |     |      |      |      |       |
| 610. FT/SEC        | 15000  | 38.0   | 56.5   | 33.2   | 52.1   | 55.1   | 56.5   | 56.9   | 54.7   | 47.1   | 33.4   | 13.8 |     |      |      |      |       |
|                    | 20000  | 28.8   | 49.4   | 27.5   | 45.8   | 48.4   | 50.1   | 49.9   | 48.1   | 38.8   | 23.1   |      |     |      |      |      |       |
|                    | 25000  | 19.7   | 40.1   | 20.5   | 37.9   | 39.9   | 40.5   | 40.8   | 37.9   | 27.2   | 8.0    |      |     |      |      |      |       |
|                    | 31500  | 9.1    | 28.4   | 9.7    | 25.6   | 26.1   | 26.9   | 26.8   | 23.0   | 10.3   |        |      |     |      |      |      |       |
|                    | 40000  |        | 8.9    |        | 8.2    | 8.7    | 10.2   | 7.8    |        |        |        |      |     |      |      |      |       |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |      |      |      |       |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |      |      |      |       |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |      |      |      |       |
| OVERALL CALCULATED |        | 66.0   | 69.3   | 59.0   | 70.5   | 70.1   | 61.0   | 61.0   | 60.1   | 78.9   | 69.5   | 62.0 |     |      |      |      |       |
| PND                |        | 78.9   | 98.0   | 73.0   | 92.5   | 92.5   | 95.0   | 95.0   | 64.1   | 89.9   | 83.4   | 74.8 |     |      |      |      |       |

|                             | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.    | 0.  | 0.  | 0.  | 0.  | 0.  | PWL   |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|-----|-----|-------|
| FREQ.                       | (1.02) | (1.10) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.   | (0. | (0. | (0. | (0. | (0. |       |
| RADIAL 17. FT.              |        |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |       |
| ( 5. M)                     |        |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |       |
| VEHICLE 4-55                | 125    | 74.0   | 91.5   | 64.2   | 70.1   | 78.0   | 77.8   | 78.4   | 80.7   | 82.9   | 84.9   | 87.8  |     |     |     |     |     | 117.0 |
| CONFIG 10R 29               | 160    | 74.0   | 90.3   | 62.2   | 70.4   | 77.0   | 77.0   | 79.4   | 81.4   | 83.7   | 86.7   | 87.8  |     |     |     |     |     | 117.0 |
| LOC SCHEMECTADY             | 200    | 74.0   | 88.2   | 62.2   | 70.4   | 79.3   | 80.5   | 80.9   | 83.9   | 84.9   | 87.7   | 89.3  |     |     |     |     |     | 117.0 |
| DATE 1/9/75                 | 250    | 77.3   | 92.5   | 64.9   | 80.4   | 80.9   | 82.0   | 83.2   | 84.2   | 85.7   | 87.4   | 88.3  |     |     |     |     |     | 119.0 |
| RUN 05/7                    | 315    | 79.0   | 94.0   | 64.9   | 80.4   | 81.3   | 82.3   | 82.9   | 83.9   | 85.2   | 87.2   | 87.8  |     |     |     |     |     | 120.0 |
| TAPE                        | 400    | 77.3   | 91.7   | 63.7   | 78.4   | 80.0   | 80.8   | 82.2   | 83.4   | 84.4   | 86.2   | 89.0  |     |     |     |     |     | 118.0 |
| BAR 20.7 MC                 | 500    | 75.3   | 90.3   | 62.4   | 78.7   | 79.8   | 80.5   | 82.2   | 82.9   | 83.9   | 85.2   | 84.8  |     |     |     |     |     | 117.0 |
| (100220, N/M <sup>2</sup> ) | 630    | 76.9   | 91.8   | 64.2   | 80.2   | 82.1   | 83.1   | 84.4   | 85.2   | 85.7   | 86.2   | 84.8  |     |     |     |     |     | 116.2 |
| TAMB 49. DEG F              | 800    | 77.6   | 93.0   | 65.2   | 81.7   | 81.8   | 83.1   | 84.9   | 86.2   | 86.7   | 89.4   | 84.3  |     |     |     |     |     | 120.1 |
| (263. DEG K)                | 1000   | 77.4   | 93.0   | 65.7   | 81.2   | 81.8   | 83.8   | 85.7   | 86.9   | 86.9   | 84.2   | 82.8  |     |     |     |     |     | 120.1 |
| TNET 46. DEG F              | 1250   | 78.4   | 95.0   | 66.4   | 82.5   | 84.8   | 85.8   | 87.7   | 88.2   | 86.4   | 84.7   | 82.8  |     |     |     |     |     | 122.0 |
| (261. DEG K)                | 1600   | 79.9   | 97.5   | 69.2   | 88.5   | 87.6   | 88.9   | 90.6   | 90.9   | 90.7   | 89.7   | 82.8  |     |     |     |     |     | 124.0 |
| MACT 7.26 CM/M3             | 2000   | 85.9   | 102.8  | 70.4   | 94.0   | 95.9   | 97.4   | 99.1   | 98.8   | 96.4   | 93.2   | 89.1  |     |     |     |     |     | 131.3 |
| (.00726 KG/M3)              | 2500   | 81.9   | 101.1  | 73.1   | 91.1   | 93.4   | 94.6   | 95.9   | 95.4   | 92.7   | 88.0   | 84.3  |     |     |     |     |     | 128.7 |
| NFA 7065. RPM               | 3150   | 81.4   | 100.6  | 73.1   | 92.1   | 94.9   | 95.8   | 95.8   | 93.8   | 94.2   | 89.5   | 86.3  |     |     |     |     |     | 129.1 |
| ( 823. RAD/SEC)             | 4000   | 84.8   | 105.5  | 76.5   | 95.3   | 99.4   | 100.5  | 104.5  | 103.7  | 100.1  | 95.2   | 89.5  |     |     |     |     |     | 135.0 |
| NFK 7942. RPM               | 5000   | 83.7   | 103.7  | 77.2   | 95.5   | 97.1   | 97.7   | 99.4   | 98.9   | 95.0   | 90.4   | 86.8  |     |     |     |     |     | 131.8 |
| ( 832. RAD/SEC)             | 6300   | 90.8   | 109.5  | 84.1   | 101.8  | 98.7   | 100.0  | 103.7  | 101.2  | 97.0   | 93.1   | 89.7  |     |     |     |     |     | 136.8 |
| NFB 8823. RPM               | 8000   | 85.8   | 105.9  | 79.9   | 95.8   | 97.8   | 98.8   | 99.2   | 100.4  | 96.1   | 91.8   | 87.8  |     |     |     |     |     | 133.6 |
| ( 924. RAD/SEC)             | 10000  | 81.8   | 101.2  | 78.9   | 94.3   | 98.8   | 98.9   | 100.2  | 100.8  | 96.9   | 91.9   | 88.9  |     |     |     |     |     | 132.1 |
| NO. OF BLADES 15            | 12500  | 80.8   | 100.3  | 78.4   | 93.1   | 95.5   | 98.8   | 100.5  | 99.4   | 95.4   | 91.1   | 88.7  |     |     |     |     |     | 131.5 |
| FAN TIP SPEED               | 16000  | 77.0   | 96.2   | 70.5   | 89.2   | 91.9   | 94.2   | 96.3   | 97.2   | 92.9   | 87.4   | 83.1  |     |     |     |     |     | 128.2 |
| 667. FT/SEC                 | 20000  | 74.9   | 94.5   | 69.7   | 87.8   | 90.9   | 93.0   | 93.7   | 97.8   | 92.8   | 87.4   | 82.1  |     |     |     |     |     | 127.9 |
| 25000                       |        | 73.4   | 92.3   | 68.5   | 86.3   | 89.2   | 91.3   | 94.3   | 95.9   | 92.2   | 86.3   | 80.7  |     |     |     |     |     | 127.0 |
| 31500                       |        | 71.9   | 90.5   | 67.7   | 84.8   | 87.7   | 90.2   | 92.0   | 93.8   | 90.8   | 84.8   | 78.0  |     |     |     |     |     | 126.1 |
| 40000                       |        | 70.4   | 88.0   | 66.9   | 81.7   | 84.2   | 87.0   | 88.9   | 90.2   | 88.9   | 81.9   | 72.7  |     |     |     |     |     | 124.2 |
| 50000                       |        | 69.0   | 85.2   | 66.2   | 78.0   | 80.4   | 83.3   | 86.1   | 88.8   | 83.0   | 79.0   | 69.8  |     |     |     |     |     | 122.8 |
| 63000                       |        | 70.5   | 83.7   | 70.2   | 73.2   | 75.1   | 77.8   | 80.2   | 80.7   | 76.7   | 74.8   | 67.8  |     |     |     |     |     | 121.8 |
| 80000                       |        | 74.3   | 88.2   | 72.1   | 72.8   | 72.3   | 74.5   | 75.4   | 77.4   | 73.2   | 73.4   | 70.8  |     |     |     |     |     | 124.0 |
| OVERALL MEASURED            |        |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |       |
| OVERALL CALCULATED          |        | 99.9   | 114.6  | 88.6   | 108.9  | 107.3  | 106.7  | 110.9  | 110.8  | 107.1  | 103.4  | 101.8 |     |     |     |     |     | 143.6 |
| PH00                        |        | 109.6  | 120.8  | 101.7  | 119.1  | 119.9  | 121.0  | 123.8  | 123.3  | 120.8  | 116.7  | 119.7 |     |     |     |     |     |       |

MODEL SOUND PRESSURE LEVELS (90, LEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN LEGS (AND RADIANS)

|                     | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.   | 0.  | 0.  | 0.  | 0.  |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|-----|-----|-----|-----|
| FREQ.               | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.  | (0.  | (0. | (0. | (0. | (0. |
| SIDELINE 200. FT.   | 83     |        |        |        |        |        |        |        |        |        |        |      |      |     |     |     |     |
| ( 90.90 M)          | 100    | 45.7   | 64.3   | 39.2   | 54.3   | 52.9   | 53.2   | 52.7   | 52.1   | 54.3   | 57.0   | 59.9 |      |     |     |     |     |
| VEHICLE R-55        | 125    | 51.6   | 69.2   | 42.3   | 56.5   | 57.1   | 55.7   | 55.7   | 56.0   | 57.5   | 57.1   | 56.2 |      |     |     |     |     |
| CONFIG 144 29       | 150    | 51.6   | 67.8   | 43.3   | 54.7   | 55.2   | 54.8   | 56.6   | 57.4   | 58.1   | 58.7   | 58.6 |      |     |     |     |     |
| LOC SCHENECTADY     | 200    | 50.7   | 65.8   | 43.2   | 54.6   | 57.4   | 58.2   | 58.0   | 59.8   | 59.2   | 59.6   | 57.2 |      |     |     |     |     |
| DATE 1/9/73         | 250    | 53.9   | 69.9   | 42.8   | 56.5   | 58.8   | 59.7   | 60.1   | 60.0   | 60.0   | 59.1   | 59.8 |      |     |     |     |     |
| RUN 45/7            | 315    | 55.5   | 71.3   | 42.7   | 56.4   | 59.2   | 59.8   | 59.8   | 59.8   | 59.8   | 59.2   | 58.7 | 55.8 |     |     |     |     |
| TAPE                | 400    | 53.7   | 69.0   | 41.4   | 56.3   | 57.9   | 58.3   | 58.9   | 59.0   | 60.3   | 57.8   | 63.0 |      |     |     |     |     |
| BAR 29.7 MC         | 500    | 51.6   | 67.4   | 40.1   | 56.5   | 57.6   | 57.9   | 58.6   | 58.4   | 57.7   | 58.4   | 51.7 |      |     |     |     |     |
| (100220. N/M2)      | 630    | 53.0   | 68.8   | 41.7   | 57.9   | 59.7   | 60.3   | 61.0   | 60.5   | 59.3   | 57.2   | 51.1 |      |     |     |     |     |
| TAMB 49. DEG F      | 800    | 53.6   | 69.9   | 42.6   | 59.3   | 59.4   | 60.2   | 61.3   | 61.4   | 60.1   | 56.2   | 60.5 |      |     |     |     |     |
| (283. DEG K)        | 1000   | 53.2   | 69.8   | 43.0   | 58.7   | 59.2   | 60.8   | 61.9   | 62.0   | 60.2   | 54.7   | 48.4 |      |     |     |     |     |
| TNET 46. DEG F      | 1250   | 54.1   | 71.7   | 43.6   | 59.9   | 61.9   | 62.7   | 63.6   | 63.0   | 61.5   | 54.9   | 48.3 |      |     |     |     |     |
| (241. DEG K)        | 1600   | 55.4   | 74.0   | 46.2   | 63.7   | 64.8   | 65.6   | 66.6   | 65.8   | 63.5   | 55.6   | 47.8 |      |     |     |     |     |
| MACT 7.26 CM/MS     | 2000   | 61.2   | 79.1   | 53.2   | 71.1   | 72.8   | 73.9   | 74.8   | 73.1   | 68.9   | 62.7   | 63.5 |      |     |     |     |     |
| (1.00726 AC/MS)     | 2500   | 57.0   | 77.1   | 49.8   | 67.9   | 70.2   | 70.9   | 71.4   | 69.6   | 64.9   | 57.2   | 48.2 |      |     |     |     |     |
| NFA 7865. RPM       | 3150   | 56.1   | 76.6   | 49.5   | 68.7   | 71.4   | 71.6   | 71.0   | 69.7   | 66.0   | 58.1   | 49.1 |      |     |     |     |     |
| ( 823. RAD/SEC)     | 4000   | 59.1   | 80.8   | 52.5   | 71.5   | 75.4   | 76.1   | 79.2   | 77.0   | 71.2   | 62.9   | 57.1 |      |     |     |     |     |
| NFA 7942. RPM       | 5000   | 57.7   | 78.8   | 52.9   | 71.4   | 72.9   | 73.1   | 73.9   | 71.9   | 65.8   | 58.2   | 47.7 |      |     |     |     |     |
| ( 832. RAD/SEC)     | 6300   | 63.9   | 83.8   | 59.1   | 76.8   | 73.8   | 74.6   | 77.3   | 73.3   | 66.7   | 58.9   | 48.7 |      |     |     |     |     |
| NFA 8823. RPM       | 8000   | 57.5   | 79.0   | 53.8   | 69.7   | 71.9   | 73.3   | 71.8   | 71.1   | 64.1   | 58.4   | 43.3 |      |     |     |     |     |
| ( 924. RAD/SEC)     | 10000  | 51.7   | 72.7   | 48.2   | 67.0   | 71.1   | 70.8   | 70.9   | 69.3   | 62.1   | 52.1   | 38.2 |      |     |     |     |     |
| NO. OF BLADES 13    | 12500  | 48.2   | 69.4   | 45.5   | 63.6   | 65.8   | 68.3   | 68.7   | 65.3   | 57.6   | 47.3   | 30.3 |      |     |     |     |     |
| FAN TIP SPEED 10000 | 16000  | 49.2   | 61.4   | 38.9   | 58.1   | 58.8   | 59.9   | 60.3   | 58.4   | 49.8   | 38.3   | 19.9 |      |     |     |     |     |
| 667. FT/SEC         | 20000  | 32.4   | 54.6   | 31.2   | 49.9   | 52.8   | 53.8   | 54.3   | 52.8   | 41.8   | 26.8   | 1.7  |      |     |     |     |     |
|                     | 25000  | 22.4   | 45.8   | 23.1   | 41.7   | 44.3   | 44.9   | 45.2   | 42.1   | 30.6   | 11.9   |      |      |     |     |     |     |
|                     | 31500  | 9.4    | 32.8   | 12.1   | 30.8   | 32.7   | 33.3   | 31.8   | 27.1   | 13.7   |        |      |      |     |     |     |     |
|                     | 40000  |        | 14.8   |        | 12.4   | 14.3   | 14.5   | 11.4   | 4.3    |        |        |      |      |     |     |     |     |
|                     | 50000  |        |        |        |        |        |        |        |        |        |        |      |      |     |     |     |     |
|                     | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |     |     |     |     |
|                     | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |     |     |     |     |
| OVERALL CALCULATED  | 69.8   | 69.1   | 63.3   | 61.1   | 62.2   | 62.9   | 64.3   | 62.2   | 77.3   | 71.8   | 66.4   |      |      |     |     |     |     |
| PRDS                | 63.5   | 103.0  | 77.2   | 94.9   | 86.8   | 96.7   | 98.8   | 96.7   | 91.9   | 88.8   | 78.4   |      |      |     |     |     |     |



|                           | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.  | 0.  | 0.  | 0.  | 0.  | PRL   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|-------|
| FREQ.                     | (1.02) | (1.10) | (1.36) | (1.53) | (1.71) | (1.88) | (2.00) | (2.24) | (2.42) | (2.66) | (2.70) | 10.  | 10. | 10. | 10. | 10. | 10. |       |
| RADIAL 17. FT.            | 96     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
| ( 5. M)                   | 80     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
| VEHICLE R-55              | 100    | 69.3   | 80.8   | 83.9   | 73.9   | 74.0   | 75.5   | 76.2   | 76.7   | 79.0   | 84.7   | 88.3 |     |     |     |     |     | 114.8 |
| CONFIG 14R 29             | 125    | 75.0   | 91.8   | 84.2   | 79.1   | 79.3   | 76.5   | 78.7   | 80.9   | 82.4   | 85.2   | 88.1 |     |     |     |     |     | 118.2 |
| LOC SCHEMECTADY           | 160    | 74.8   | 90.5   | 82.2   | 77.1   | 77.3   | 77.8   | 80.2   | 81.4   | 84.4   | 86.7   | 88.1 |     |     |     |     |     | 117.7 |
| DATE 1/9/75               | 200    | 74.3   | 88.7   | 81.7   | 79.6   | 78.5   | 83.8   | 81.4   | 83.7   | 84.7   | 88.2   | 89.8 |     |     |     |     |     | 117.0 |
| RUN 45/8                  | 250    | 77.3   | 92.5   | 84.9   | 83.6   | 80.9   | 81.8   | 83.4   | 84.4   | 85.4   | 87.7   | 88.8 |     |     |     |     |     | 119.7 |
| TAPE                      | 315    | 78.8   | 94.2   | 84.7   | 83.9   | 81.5   | 82.8   | 82.9   | 84.2   | 85.2   | 87.2   | 87.8 |     |     |     |     |     | 120.5 |
| BAR 29.7 HG               | 400    | 77.6   | 92.0   | 83.4   | 78.9   | 79.8   | 80.5   | 82.4   | 82.9   | 84.9   | 85.9   | 85.8 |     |     |     |     |     | 118.8 |
| (00228, N/M2)             | 500    | 75.1   | 90.0   | 82.4   | 79.2   | 79.8   | 83.3   | 82.2   | 82.9   | 83.7   | 86.2   | 86.8 |     |     |     |     |     | 117.4 |
| TANG 49, DEG F            | 630    | 76.9   | 92.0   | 84.2   | 80.7   | 82.1   | 83.8   | 84.7   | 85.2   | 85.9   | 88.0   | 84.8 |     |     |     |     |     | 119.4 |
| (203, DEG K)              | 800    | 77.4   | 83.0   | 85.2   | 81.7   | 82.8   | 83.1   | 84.9   | 86.4   | 86.7   | 88.7   | 84.1 |     |     |     |     |     | 120.1 |
| INLET 46, DEG F           | 1000   | 77.4   | 93.2   | 83.7   | 81.2   | 82.1   | 83.8   | 85.4   | 86.4   | 86.9   | 83.9   | 82.8 |     |     |     |     |     | 120.2 |
| (201, DEG K)              | 1250   | 78.1   | 94.8   | 86.2   | 82.2   | 84.4   | 86.6   | 87.4   | 86.4   | 87.9   | 84.7   | 82.8 |     |     |     |     |     | 121.8 |
| NACT 7.26 GW/M3           | 1600   | 80.4   | 97.5   | 88.9   | 86.5   | 88.1   | 89.4   | 90.4   | 90.9   | 89.9   | 85.7   | 82.3 |     |     |     |     |     | 124.6 |
| (.00726 KG/M3)            | 2000   | 85.9   | 103.1  | 75.7   | 93.8   | 95.8   | 87.8   | 98.4   | 98.6   | 96.2   | 93.8   | 89.1 |     |     |     |     |     | 131.4 |
| NFA 7882, RPM             | 2500   | 81.8   | 100.8  | 72.9   | 91.8   | 93.2   | 94.8   | 95.9   | 95.6   | 92.9   | 88.0   | 84.8 |     |     |     |     |     | 129.7 |
| ( 823, RAD/SEC)           | 3150   | 81.8   | 101.1  | 73.1   | 92.8   | 94.9   | 95.8   | 96.1   | 96.3   | 93.7   | 89.5   | 86.3 |     |     |     |     |     | 129.3 |
| NFA 7939, RPM             | 4000   | 84.8   | 105.0  | 78.8   | 95.3   | 99.8   | 100.8  | 104.7  | 104.0  | 99.1   | 94.7   | 95.8 |     |     |     |     |     | 135.8 |
| ( 831, RAD/SEC)           | 5000   | 84.2   | 103.2  | 76.7   | 95.3   | 96.8   | 97.7   | 99.9   | 99.2   | 94.8   | 91.4   | 86.8 |     |     |     |     |     | 131.8 |
| NFA 8823, RPM             | 6300   | 91.3   | 109.2  | 83.1   | 101.8  | 98.9   | 100.0  | 103.7  | 101.2  | 97.3   | 93.1   | 89.7 |     |     |     |     |     | 136.4 |
| ( 924, RAD/SEC)           | 8000   | 85.8   | 105.8  | 78.9   | 96.3   | 98.1   | 100.8  | 99.2   | 100.8  | 96.1   | 92.0   | 87.3 |     |     |     |     |     | 133.4 |
| NO. OF BLADES IS 12500    | 10000  | 81.1   | 100.9  | 78.1   | 94.8   | 94.8   | 98.9   | 100.4  | 100.9  | 96.2   | 92.3   | 88.7 |     |     |     |     |     | 132.2 |
| FAH TIP SPEED 686, FT/SEC | 12500  | 80.8   | 100.8  | 75.4   | 93.4   | 96.0   | 98.8   | 100.5  | 99.0   | 95.4   | 91.8   | 85.7 |     |     |     |     |     | 131.8 |
|                           | 16000  | 76.7   | 95.7   | 70.3   | 89.2   | 92.9   | 94.2   | 95.5   | 97.5   | 92.7   | 88.4   | 83.1 |     |     |     |     |     | 126.1 |
|                           | 20000  | 74.9   | 94.3   | 69.4   | 87.8   | 90.9   | 93.5   | 95.8   | 97.3   | 92.6   | 87.2   | 82.1 |     |     |     |     |     | 127.8 |
|                           | 25000  | 73.4   | 92.5   | 68.3   | 86.1   | 89.0   | 91.6   | 93.8   | 95.9   | 92.2   | 86.3   | 80.2 |     |     |     |     |     | 126.9 |
|                           | 31500  | 72.1   | 91.3   | 67.7   | 85.3   | 87.7   | 90.2   | 92.0   | 93.8   | 90.3   | 85.3   | 78.8 |     |     |     |     |     | 126.2 |
|                           | 40000  | 70.4   | 87.8   | 67.2   | 82.0   | 84.7   | 87.0   | 89.4   | 90.0   | 86.9   | 81.9   | 72.8 |     |     |     |     |     | 124.3 |
|                           | 50000  | 69.6   | 85.7   | 68.9   | 78.3   | 80.9   | 83.3   | 86.1   | 86.5   | 83.0   | 78.7   | 69.8 |     |     |     |     |     | 122.9 |
|                           | 63000  | 70.7   | 84.4   | 70.2   | 78.7   | 75.3   | 78.3   | 79.9   | 83.2   | 76.7   | 75.0   | 68.8 |     |     |     |     |     | 121.8 |
|                           | 80000  | 74.3   | 86.2   | 72.1   | 72.4   | 72.3   | 74.3   | 75.8   | 82.2   | 73.8   | 73.4   | 70.7 |     |     |     |     |     | 125.8 |
| OVERALL MEASURED          |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
| OVERALL CALCULATED        | 96.0   | 114.5  | 88.0   | 108.1  | 107.4  | 108.9  | 111.0  | 119.8  | 100.9  | 103.8  | 101.0  |      |     |     |     |     |     | 143.4 |
| PRL                       | 109.8  | 127.8  | 101.8  | 119.2  | 120.8  | 121.2  | 124.8  | 123.8  | 119.9  | 130.8  | 118.7  |      |     |     |     |     |     |       |

NOISE SOUND PRESSURE LEVELS (DB, LEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.  | 0.  | 0.  | 0.  | 0.  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|
| FREQ.              | (1.02) | (1.19) | (1.30) | (1.53) | (1.71) | (1.90) | (2.09) | (2.24) | (2.42) | (2.60) | (2.79) | (0.  | (0. | (0. | (0. | (0. | (0. |
| SIDELINE 200. FT.  |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| ( 00.00 FT)        | 100    | 46.2   | 64.5   | 39.2   | 52.3   | 53.1   | 53.5   | 53.8   | 52.9   | 54.0   | 57.0   | 50.0 |     |     |     |     |     |
| VEHICLE N-55       | 120    | 51.9   | 69.4   | 42.3   | 50.5   | 57.0   | 58.4   | 55.9   | 57.1   | 57.0   | 57.4   | 50.5 |     |     |     |     |     |
| CONFIG 24029       | 100    | 51.0   | 60.1   | 41.3   | 55.4   | 55.5   | 55.6   | 57.3   | 57.4   | 50.0   | 50.7   | 50.2 |     |     |     |     |     |
| LCC SCHEMECTADY    | 230    | 51.0   | 66.3   | 39.7   | 54.8   | 56.6   | 50.5   | 50.5   | 59.6   | 59.0   | 66.1   | 57.5 |     |     |     |     |     |
| DATE 1/9/75        | 250    | 53.9   | 69.9   | 42.0   | 50.7   | 58.0   | 59.4   | 60.4   | 60.2   | 59.0   | 59.4   | 50.2 |     |     |     |     |     |
| RUN 45/8           | 315    | 55.3   | 71.0   | 42.5   | 50.9   | 59.5   | 59.0   | 59.0   | 59.9   | 59.2   | 50.7   | 50.0 |     |     |     |     |     |
| TAPE               | 400    | 53.9   | 69.2   | 41.2   | 50.0   | 57.7   | 50.0   | 59.2   | 50.5   | 50.0   | 57.3   | 53.0 |     |     |     |     |     |
| BAR 29.7 HG        | 500    | 51.4   | 67.1   | 40.1   | 50.0   | 57.3   | 57.7   | 56.6   | 50.4   | 57.4   | 50.4   | 51.4 |     |     |     |     |     |
| (00220. N/M2)      | 630    | 53.0   | 69.0   | 41.7   | 50.4   | 59.7   | 60.0   | 61.2   | 60.8   | 59.5   | 50.9   | 51.1 |     |     |     |     |     |
| TANG 49. DEG F     | 800    | 53.4   | 69.0   | 42.0   | 50.3   | 60.0   | 60.2   | 61.3   | 61.6   | 60.1   | 50.4   | 50.3 |     |     |     |     |     |
| (263. DEG K)       | 1000   | 53.2   | 70.0   | 43.0   | 50.7   | 59.5   | 60.8   | 61.7   | 61.5   | 60.2   | 54.4   | 40.7 |     |     |     |     |     |
| TNET 46. DEG F     | 1250   | 53.9   | 71.4   | 43.3   | 50.0   | 61.0   | 63.5   | 63.5   | 63.3   | 61.0   | 54.9   | 40.3 |     |     |     |     |     |
| (201. DEG K)       | 1600   | 55.9   | 74.0   | 45.9   | 63.7   | 65.3   | 66.1   | 66.3   | 65.0   | 62.7   | 55.0   | 47.3 |     |     |     |     |     |
| MACT 7.26 CM/M3    | 2000   | 61.2   | 70.3   | 52.5   | 70.0   | 72.0   | 74.1   | 79.1   | 73.1   | 60.7   | 63.0   | 53.0 |     |     |     |     |     |
| (.00726 KG/M3)     | 2500   | 56.7   | 70.9   | 49.5   | 60.7   | 69.9   | 70.9   | 71.4   | 69.0   | 68.2   | 57.2   | 40.4 |     |     |     |     |     |
| NFA 7062. RPM      | 3150   | 54.4   | 76.0   | 49.5   | 69.2   | 71.4   | 71.9   | 71.3   | 70.2   | 69.5   | 50.1   | 49.3 |     |     |     |     |     |
| ( 823. RAD/SEC)    | 4000   | 59.1   | 80.3   | 52.7   | 71.5   | 75.7   | 76.4   | 79.5   | 77.3   | 70.2   | 62.4   | 57.3 |     |     |     |     |     |
| NFA 7030. RPM      | 5000   | 50.2   | 70.3   | 52.4   | 71.2   | 72.7   | 73.1   | 74.4   | 72.1   | 65.0   | 50.7   | 47.7 |     |     |     |     |     |
| ( 831. RAD/SEC)    | 6300   | 64.4   | 83.5   | 50.1   | 70.0   | 74.1   | 74.0   | 77.3   | 73.3   | 60.9   | 50.9   | 40.7 |     |     |     |     |     |
| NFB 8023. RPM      | 8000   | 57.5   | 70.0   | 52.0   | 70.5   | 72.1   | 74.1   | 71.0   | 71.0   | 64.1   | 55.7   | 43.0 |     |     |     |     |     |
| ( 920. RAD/SEC)    | 10000  | 51.2   | 72.4   | 47.5   | 67.2   | 71.1   | 70.0   | 71.1   | 69.0   | 61.9   | 52.9   | 37.9 |     |     |     |     |     |
| NO. OF BLADES 15   | 12500  | 48.2   | 69.0   | 45.5   | 63.0   | 66.3   | 68.3   | 68.7   | 69.0   | 67.0   | 40.1   | 30.3 |     |     |     |     |     |
| PAN TIP SPEED      | 16000  | 39.9   | 60.9   | 30.7   | 50.1   | 59.0   | 59.9   | 59.0   | 50.0   | 40.3   | 37.3   | 10.9 |     |     |     |     |     |
| 600. FT/SEC        | 20000  | 32.4   | 54.3   | 30.9   | 49.9   | 52.0   | 54.3   | 54.1   | 52.3   | 41.0   | 26.0   | 1.7  |     |     |     |     |     |
|                    | 25000  | 22.0   | 45.2   | 22.0   | 41.0   | 44.0   | 45.2   | 44.7   | 42.1   | 30.0   | 11.9   |      |     |     |     |     |     |
|                    | 31500  | 9.7    | 33.2   | 12.1   | 30.7   | 32.7   | 33.3   | 31.5   | 20.9   | 13.4   |        |      |     |     |     |     |     |
|                    | 40000  |        | 13.7   |        | 12.0   | 16.0   | 14.5   | 11.9   | 4.0    |        |        |      |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| OVERALL CALCULATED |        | 70.0   | 89.1   | 62.2   | 61.2   | 62.3   | 63.1   | 64.5   | 62.4   | 70.9   | 71.0   | 60.8 |     |     |     |     |     |
| PN00               |        | 83.0   | 102.0  | 70.5   | 65.0   | 66.1   | 66.0   | 66.0   | 66.0   | 91.3   | 84.0   | 70.4 |     |     |     |     |     |

| PARAMETER          | FREQ  | ANGLES FROM INLET IN DEGREES (AND RADIANS) |            |            |            |            |             |             |             |             |             |             |            |             |             | PWL |             |             |
|--------------------|-------|--|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-----|-------------|-------------|
|                    |       | 50. (1.02)                                 | 60. (1.10) | 70. (1.36) | 80. (1.53) | 90. (1.71) | 100. (1.88) | 110. (2.06) | 120. (2.24) | 130. (2.42) | 140. (2.60) | 150. (2.78) | 160. (3.0) | 170. (3.19) | 180. (3.49) |     | 190. (3.68) | 200. (3.89) |
| RADIAL 17. FT.     | 50    |  |            |            |            |            |             |             |             |             |             |             |            |             |             |     |             |             |
|                    | 63    |  |            |            |            |            |             |             |             |             |             |             |            |             |             |     |             |             |
|                    | 80    |  |            |            |            |            |             |             |             |             |             |             |            |             |             |     |             |             |
| VEHICLE ( 9. M)    | 100   | 87.0                                       | 86.6       | 81.9       | 79.2       | 76.0       | 77.0        | 75.2        | 70.4        | 71.9        | 70.4        | 77.3        |            |             |             |     | 112.8       |             |
| CONFIC R=35        | 125   | 88.5                                       | 83.8       | 56.2       | 67.9       | 73.0       | 68.3        | 68.4        | 71.2        | 73.4        | 75.7        | 79.1        |            |             |             |     | 109.6       |             |
| LOC SCHEMECTADY    | 200   | 85.3                                       | 80.3       | 52.2       | 66.4       | 67.5       | 67.5        | 69.2        | 70.7        | 73.2        | 76.7        | 78.3        |            |             |             |     | 107.3       |             |
| DATE 1/9/75        | 250   | 87.8                                       | 82.3       | 55.7       | 76.4       | 71.3       | 71.8        | 72.9        | 73.2        | 74.4        | 75.7        | 79.3        |            |             |             |     | 109.1       |             |
| RUN 45/9           | 315   | 89.0                                       | 84.0       | 55.7       | 71.4       | 72.5       | 73.0        | 73.7        | 74.2        | 75.2        | 76.7        | 78.1        |            |             |             |     | 110.5       |             |
| TAPE               | 400   | 88.1                                       | 82.5       | 54.4       | 70.2       | 71.5       | 72.3        | 73.2        | 74.4        | 75.7        | 76.4        | 74.3        |            |             |             |     | 109.4       |             |
| BAR 29.7 HG        | 500   | 85.8                                       | 80.8       | 53.4       | 69.7       | 71.3       | 72.0        | 73.2        | 73.7        | 74.4        | 76.2        | 73.1        |            |             |             |     | 108.2       |             |
| (100228. 4/M2)     | 630   | 87.9                                       | 83.0       | 55.7       | 73.0       | 74.3       | 75.6        | 76.4        | 76.9        | 77.9        | 80.0        | 74.0        |            |             |             |     | 111.3       |             |
| TAMP 40. DEG F     | 800   | 88.4                                       | 84.3       | 57.2       | 71.5       | 74.1       | 75.3        | 76.7        | 78.2        | 78.4        | 79.9        | 73.8        |            |             |             |     | 111.8       |             |
| (203. DEG F)       | 1000  | 88.9                                       | 85.3       | 58.2       | 73.7       | 74.3       | 77.1        | 78.2        | 79.7        | 80.9        | 81.4        | 73.8        |            |             |             |     | 113.1       |             |
| TWET 40. DEG F     | 1250  | 75.4                                       | 92.1       | 83.9       | 81.5       | 85.4       | 87.3        | 89.2        | 89.2        | 89.9        | 84.7        | 80.3        |            |             |             |     | 121.3       |             |
| (201. DEG F)       | 1600  | 74.1                                       | 91.3       | 83.4       | 81.1       | 83.6       | 85.4        | 86.9        | 87.2        | 87.4        | 83.2        | 78.8        |            |             |             |     | 115.8       |             |
| MACT 7.28 GW/M3    | 2000  | 72.9                                       | 90.1       | 82.4       | 80.3       | 81.9       | 83.9        | 85.4        | 85.4        | 85.4        | 81.2        | 78.8        |            |             |             |     | 118.3       |             |
| (.00726 KG/M3)     | 2500  | 77.1                                       | 94.8       | 85.1       | 83.9       | 87.4       | 88.9        | 90.4        | 90.4        | 93.4        | 88.8        | 81.8        |            |             |             |     | 123.5       |             |
| NFA 5505. RPM      | 3150  | 75.6                                       | 93.9       | 84.9       | 83.8       | 87.2       | 88.6        | 89.6        | 89.8        | 91.7        | 85.8        | 80.8        |            |             |             |     | 122.7       |             |
| ( 578. RAD/SEC)    | 4000  | 76.3                                       | 100.1      | 73.3       | 92.8       | 94.0       | 95.5        | 96.2        | 92.2        | 93.3        | 88.9        | 82.8        |            |             |             |     | 128.9       |             |
| NPK 5558. RPM      | 5000  | 73.5                                       | 92.5       | 86.2       | 85.1       | 87.6       | 89.0        | 90.7        | 91.2        | 91.8        | 85.1        | 79.1        |            |             |             |     | 122.8       |             |
| ( 582. RAD/SEC)    | 6300  | 74.5                                       | 91.3       | 84.7       | 83.9       | 88.2       | 92.0        | 98.7        | 93.2        | 91.3        | 84.8        | 79.7        |            |             |             |     | 123.5       |             |
| NPD 8823. RPM      | 8000  | 70.4                                       | 88.7       | 82.2       | 82.4       | 85.6       | 88.3        | 88.2        | 89.4        | 89.1        | 83.0        | 78.0        |            |             |             |     | 120.7       |             |
| ( 924. RAD/SEC)    | 10000 | 69.8                                       | 87.2       | 81.2       | 84.1       | 83.9       | 86.6        | 88.7        | 88.9        | 89.2        | 82.8        | 78.9        |            |             |             |     | 120.1       |             |
| NO. OF BLADES 15   | 12500 | 88.8                                       | 85.1       | 59.5       | 79.7       | 82.5       | 85.5        | 87.0        | 88.4        | 86.9        | 81.8        | 75.4        |            |             |             |     | 118.8       |             |
| PM TIP SPEED       | 16000 | 86.0                                       | 81.5       | 58.3       | 75.3       | 78.9       | 81.2        | 83.5        | 84.7        | 84.7        | 78.4        | 72.9        |            |             |             |     | 115.7       |             |
| 481. FT/SEC        | 20000 | 85.2                                       | 79.1       | 55.2       | 73.6       | 76.7       | 80.0        | 82.8        | 84.3        | 83.1        | 78.2        | 71.4        |            |             |             |     | 114.8       |             |
|                    | 25000 | 85.2                                       | 77.1       | 55.5       | 71.1       | 74.5       | 78.6        | 79.1        | 81.8        | 80.9        | 75.8        | 68.9        |            |             |             |     | 112.8       |             |
|                    | 31500 | 85.4                                       | 74.1       | 55.5       | 70.1       | 73.5       | 75.7        | 77.5        | 79.8        | 78.3        | 73.8        | 67.8        |            |             |             |     | 112.4       |             |
|                    | 40000 | 85.9                                       | 74.3       | 58.9       | 67.0       | 71.8       | 73.8        | 75.4        | 78.2        | 76.2        | 71.8        | 64.2        |            |             |             |     | 111.8       |             |
|                    | 50000 | 88.8                                       | 75.2       | 66.2       | 64.8       | 69.7       | 71.8        | 72.8        | 78.8        | 72.8        | 70.2        | 68.8        |            |             |             |     | 112.7       |             |
|                    | 63000 | 70.5                                       | 75.2       | 81.5       | 82.8       | 89.4       | 71.8        | 78.4        | 78.2        | 89.8        | 71.8        | 67.8        |            |             |             |     | 114.9       |             |
|                    | 80000 | 73.8                                       | 81.8       | 82.3       | 84.4       | 78.5       | 72.3        | 71.9        | 78.7        | 78.7        | 72.2        | 70.2        |            |             |             |     | 121.2       |             |
| OVERALL MEASURED   |       |  |            |            |            |            |             |             |             |             |             |             |            |             |             |     |             |             |
| OVERALL CALCULATED |       | 86.2                                       | 104.3      | 77.5       | 96.1       | 98.5       | 100.3       | 101.1       | 101.8       | 101.4       | 98.8        | 91.8        |            |             |             |     | 126.1       |             |
| PWAV               |       | 98.9                                       | 119.3      | 92.2       | 111.1      | 113.2      | 114.6       | 115.3       | 113.6       | 114.8       | 109.3       | 104.7       |            |             |             |     |             |             |

MODEL SOUND PRESSURE LEVELS (50. LEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.              | ANGLES FROM INLET IN DEGREES (AND RADIANS) |            |            |            |            |             |             |             |             |             |             |    |    |    |    |
|--------------------|--|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|----|----|----|----|
|                    | 50. (1.02)                                 | 60. (1.19) | 70. (1.36) | 80. (1.53) | 90. (1.71) | 100. (1.90) | 110. (2.09) | 120. (2.24) | 130. (2.42) | 140. (2.60) | 150. (2.70) | 0. | 0. | 0. | 0. |
| SIDELINE 200. FT.  | 50   | 63         | 80         | 90         | 100        | 110         | 120         | 130         | 140         | 150         | 0.          | 0. | 0. | 0. | 0. |
| ( 60.00 M)         | 100  | 125        | 150        | 175        | 200        | 225         | 250         | 275         | 300         | 325         | 350         | 0. | 0. | 0. | 0. |
| VEHICLE R-55       | 44.0                                       | 64.3       | 40.2       | 50.0       | 56.4       | 59.0        | 52.5        | 46.0        | 40.0        | 40.0        | 45.0        |    |    |    |    |
| CONFIG 100         | 41.0                                       | 57.9       | 30.3       | 44.7       | 49.7       | 49.3        | 46.3        | 46.7        | 47.0        | 46.7        | 44.0        |    |    |    |    |
| LOC SCHENECTADY    | 200  | 42.0       | 57.1       | 30.7       | 45.4       | 47.9        | 49.2        | 49.5        | 50.3        | 49.7        | 49.3        |    |    |    |    |
| DATE 1/9/75        | 250  | 44.4       | 59.7       | 33.0       | 46.5       | 49.3        | 49.4        | 49.9        | 49.0        | 48.0        | 47.4        |    |    |    |    |
| RUN 45/0           | 315  | 45.5       | 61.4       | 33.5       | 47.5       | 50.5        | 50.5        | 50.5        | 49.9        | 49.2        | 48.2        |    |    |    |    |
| TAPE               | 400  | 44.4       | 54.8       | 32.2       | 46.1       | 49.4        | 49.0        | 49.9        | 50.0        | 49.0        | 46.8        |    |    |    |    |
| BAR 29.7 HG        | 500  | 41.9       | 57.7       | 31.1       | 47.0       | 49.1        | 49.4        | 49.0        | 49.2        | 48.2        | 47.4        |    |    |    |    |
| (00220. N/M2)      | 630  | 44.0       | 60.0       | 33.2       | 50.7       | 52.0        | 52.0        | 53.0        | 52.3        | 51.5        | 50.9        |    |    |    |    |
| TARD 49. DEG F     | 800  | 44.4       | 61.2       | 34.6       | 51.1       | 51.0        | 52.5        | 53.1        | 53.4        | 51.9        | 50.7        |    |    |    |    |
| ( 1243. DEG H)     | 1000                                       | 44.7       | 62.1       | 35.5       | 51.2       | 51.7        | 54.1        | 54.4        | 54.7        | 54.2        | 51.9        |    |    |    |    |
| TNET 40. DEG F     | 1250                                       | 51.1       | 60.7       | 41.1       | 58.9       | 62.0        | 64.2        | 65.3        | 64.0        | 63.0        | 54.9        |    |    |    |    |
| ( 1201. DEG H)     | 1600                                       | 49.7       | 67.0       | 40.4       | 58.3       | 63.8        | 62.1        | 62.0        | 61.0        | 60.2        | 53.1        |    |    |    |    |
| MACT 7.20 CM/M3    | 2000                                       | 48.2       | 66.4       | 39.2       | 57.4       | 58.8        | 63.4        | 61.1        | 59.8        | 57.9        | 50.7        |    |    |    |    |
| (.00720 KG/M3)     | 2500                                       | 52.2       | 70.7       | 41.0       | 60.7       | 64.2        | 65.2        | 65.0        | 64.8        | 60.7        | 55.7        |    |    |    |    |
| NFA 5505. RPM      | 3150                                       | 50.4       | 68.0       | 41.2       | 60.2       | 63.7        | 64.0        | 64.0        | 63.7        | 63.5        | 53.0        |    |    |    |    |
| ( 576. RAD/SEC)    | 4000                                       | 50.0       | 75.4       | 49.2       | 69.0       | 70.7        | 71.1        | 71.0        | 65.0        | 64.5        | 54.7        |    |    |    |    |
| NFB 5559. RPM      | 5000                                       | 47.5       | 67.0       | 41.9       | 61.0       | 63.4        | 64.3        | 65.1        | 64.1        | 61.0        | 52.4        |    |    |    |    |
| ( 562. RAD/SEC)    | 6300                                       | 47.7       | 65.0       | 39.0       | 59.1       | 63.3        | 64.0        | 64.3        | 65.3        | 60.0        | 50.7        |    |    |    |    |
| NFB 8023. RPM      | 8000                                       | 42.2       | 61.0       | 30.0       | 56.5       | 59.0        | 61.0        | 60.0        | 60.1        | 57.1        | 46.7        |    |    |    |    |
| ( 824. RAD/SEC)    | 10000                                      | 39.7       | 58.7       | 33.5       | 54.0       | 56.4        | 56.5        | 56.4        | 57.6        | 54.9        | 43.4        |    |    |    |    |
| NO. OF BLADES 15   | 12500                                      | 36.2       | 54.2       | 29.5       | 50.1       | 52.0        | 53.1        | 53.2        | 54.3        | 49.1        | 37.0        |    |    |    |    |
| FAN TIP SPEED      | 16000                                      | 29.2       | 46.7       | 22.7       | 42.1       | 45.0        | 46.9        | 47.6        | 45.9        | 41.3        | 27.3        |    |    |    |    |
| 481. FT/SEC        | 20000                                      | 22.7       | 39.1       | 16.7       | 35.7       | 36.0        | 40.0        | 40.0        | 39.3        | 32.3        | 17.0        |    |    |    |    |
|                    | 25000                                      | 14.6       | 29.0       | 10.1       | 20.9       | 20.5        | 30.2        | 29.9        | 27.0        | 19.0        | 1.4         |    |    |    |    |
|                    | 31500                                      | 3.2        | 10.0       |            | 10.5       | 10.5        | 16.0        | 17.0        | 13.1        | 2.4         |             |    |    |    |    |
|                    | 40000                                      |            | 0.3        |            |            | 1.1         | 0.5         |             |             |             |             |    |    |    |    |
|                    | 50000                                      |            |            |            |            |             |             |             |             |             |             |    |    |    |    |
|                    | 63000                                      |            |            |            |            |             |             |             |             |             |             |    |    |    |    |
|                    | 80000                                      |            |            |            |            |             |             |             |             |             |             |    |    |    |    |
| OVERALL CALCULATED | 60.4                                       | 70.0       | 53.2       | 72.1       | 74.4       | 78.0        | 78.0        | 73.0        | 72.3        | 64.0        | 50.0        |    |    |    |    |
| PRED               | 73.0                                       | 84.0       | 67.0       | 87.0       | 89.4       | 90.3        | 90.2        | 87.1        | 88.0        | 77.0        | 67.0        |    |    |    |    |



NOVEL SOUND PRESSURE LEVELS (50, 60, 70 PERCENT DEL. NOV. 1972)

ANGLES FROM 144.1 IN LINES (ARC RADIANS)

|                    | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0      | 0      | 0      | 0      | 0      |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ               | (1.02) | (1.12) | (1.26) | (1.53) | (1.73) | (2.00) | (2.26) | (2.64) | (3.15) | (3.81) | (4.62) | (5.62) | (6.91) | (8.61) | (10.7) | (13.5) |
| SIDEWALL 200. FT.  | 40     | 40     | 40     | 40     | 40     | 40     | 40     | 40     | 40     | 40     | 40     | 40     | 40     | 40     | 40     | 40     |
| VEHICLE 100.00 FT. | 40.2   | 40.3   | 42.0   | 43.6   | 45.1   | 46.7   | 48.0   | 49.9   | 51.4   | 52.5   | 54.0   | 55.0   | 56.0   | 57.0   | 58.0   | 59.0   |
| VEHICLE 4-55       | 45.4   | 44.4   | 46.1   | 47.5   | 48.8   | 50.1   | 51.4   | 52.7   | 54.0   | 55.3   | 56.6   | 57.9   | 59.2   | 60.5   | 61.8   | 63.1   |
| CENTRIC 100.00 FT. | 40.8   | 43.1   | 44.3   | 45.4   | 46.7   | 48.0   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   |
| LOC SCHEMATIC      | 200    | 41.0   | 43.0   | 44.2   | 47.1   | 48.9   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   |
| DATE 1/14/75       | 200    | 43.1   | 45.2   | 47.0   | 49.0   | 48.0   | 50.2   | 50.1   | 48.7   | 48.3   | 47.0   | 43.7   | 40.0   | 37.0   | 34.0   | 31.0   |
| RFL 40/1           | 315    | 43.3   | 46.6   | 48.2   | 51.4   | 50.0   | 48.0   | 50.0   | 49.4   | 49.0   | 48.0   | 46.0   | 44.0   | 42.0   | 40.0   | 38.0   |
| TYPE               | 40     | 42.4   | 44.7   | 46.0   | 47.5   | 48.9   | 50.1   | 50.2   | 49.5   | 48.0   | 47.0   | 46.0   | 45.0   | 44.0   | 43.0   | 42.0   |
| SAC 20.7 MC        | 500    | 41.1   | 43.8   | 45.0   | 47.0   | 48.0   | 49.7   | 50.0   | 49.2   | 47.9   | 46.1   | 44.0   | 42.0   | 40.0   | 38.0   | 36.0   |
| 1001.20 M/SEC      | 430    | 42.5   | 46.2   | 48.0   | 51.4   | 51.2   | 53.3   | 52.7   | 52.3   | 51.5   | 48.7   | 41.4   | 34.0   | 27.0   | 20.0   | 13.0   |
| TWIN 30. TCC F     | 70     | 43.1   | 47.2   | 49.6   | 51.1   | 51.6   | 53.5   | 53.6   | 53.5   | 52.3   | 48.7   | 41.0   | 34.0   | 27.0   | 20.0   | 13.0   |
| 127. TCC F         | 100    | 43.5   | 47.5   | 50.2   | 51.4   | 51.7   | 54.0   | 54.0   | 54.7   | 54.4   | 49.7   | 40.0   | 33.0   | 26.0   | 19.0   | 12.0   |
| TCT 37. TCC F      | 1250   | 50.4   | 53.0   | 56.3   | 59.9   | 61.4   | 63.7   | 65.0   | 64.0   | 62.7   | 59.0   | 46.0   | 33.0   | 20.0   | 7.0    | 0.0    |
| 1270. TCC F        | 1000   | 47.4   | 52.3   | 54.7   | 57.5   | 59.5   | 61.0   | 61.0   | 60.0   | 59.5   | 52.0   | 42.0   | 32.0   | 22.0   | 12.0   | 2.0    |
| WAT 5-27 M/SEC     | 2000   | 46.7   | 51.3   | 54.0   | 57.0   | 58.5   | 61.1   | 61.4   | 60.1   | 58.2   | 51.0   | 40.7   | 30.7   | 20.7   | 10.7   | 0.7    |
| 1-30-27 M/SEC      | 2500   | 49.5   | 54.1   | 57.3   | 62.4   | 64.2   | 66.7   | 67.1   | 65.6   | 67.4   | 57.9   | 47.7   | 37.7   | 27.7   | 17.7   | 7.7    |
| MFA 5430. M/SEC    | 3150   | 47.4   | 53.6   | 56.5   | 61.0   | 62.7   | 64.9   | 64.0   | 62.9   | 63.7   | 53.0   | 43.0   | 33.0   | 23.0   | 13.0   | 3.0    |
| 1 570. M/SEC       | 4000   | 49.1   | 57.4   | 57.5   | 64.3   | 67.5   | 68.7   | 68.0   | 65.0   | 63.0   | 50.2   | 40.0   | 30.0   | 20.0   | 10.0   | 0.0    |
| MFF 5931. M/SEC    | 5000   | 46.5   | 53.6   | 56.7   | 61.5   | 62.7   | 64.0   | 65.2   | 64.4   | 63.1   | 51.7   | 41.0   | 31.0   | 21.0   | 11.0   | 1.0    |
| 1 570. M/SEC       | 6000   | 46.5   | 51.4   | 54.0   | 59.0   | 62.0   | 64.0   | 65.0   | 64.0   | 61.0   | 50.5   | 40.5   | 30.5   | 20.5   | 10.5   | 0.5    |
| MFT 6043. M/SEC    | 7000   | 41.8   | 47.3   | 51.5   | 57.1   | 59.5   | 61.1   | 60.0   | 59.7   | 57.2   | 47.3   | 34.1   | 24.1   | 14.1   | 4.1    | 0.1    |
| 1 920. M/SEC       | 10000  | 39.3   | 44.3   | 44.4   | 54.0   | 56.5   | 58.0   | 58.7   | 57.5   | 54.5   | 43.9   | 29.5   | 19.5   | 9.5    | 0.5    | 0.5    |
| NO. OF PLACES 15   | 12500  | 35.1   | 41.6   | 44.7   | 51.7   | 53.0   | 55.2   | 55.0   | 54.2   | 49.0   | 37.2   | 26.7   | 16.7   | 6.7    | 0.7    | 0.7    |
| FAL TIP SPEED      | 10000  | 27.0   | 34.4   | 38.1   | 43.2   | 45.7   | 46.0   | 46.0   | 47.0   | 42.2   | 29.0   | 19.0   | 9.0    | 0.0    | 0.0    | 0.0    |
| 493. FT/SEC        | 20000  | 21.1   | 27.5   | 31.0   | 37.0   | 39.0   | 42.2   | 41.5   | 40.0   | 34.0   | 17.7   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
|                    | 25000  | 12.0   | 19.2   | 23.0   | 28.0   | 31.5   | 33.2   | 31.0   | 28.0   | 21.0   | 7.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
|                    | 31500  | 0.4    | 7.7    | 12.0   | 18.1   | 20.0   | 22.2   | 19.2   | 14.5   | 5.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
|                    | 40000  |        |        |        | 0.7    | 2.2    | 3.1    |        |        |        |        |        |        |        |        |        |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 60000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 70000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED | 58.8   | 63.9   | 66.4   | 71.3   | 72.9   | 74.4   | 74.0   | 73.5   | 72.6   | 64.9   | 56.0   |        |        |        |        |        |
| PLACED             | 71.7   | 70.2   | 70.0   | 65.4   | 67.4   | 64.0   | 67.0   | 67.0   | 66.7   | 70.3   | 60.7   |        |        |        |        |        |

ORIGINAL PAGE IS OF POOR QUALITY



10-3

PAGE 3 FULL SCALE DATA REDUCED TO 100% OF ORIGINAL  
 PHIC. RATE = 40-45M 3 DAY 10 NR. 10.2  
 ANGLES FROM INLET IN BRONIES (ANG RADIANS)

|                    | 50    | 60    | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 160   | 170   | 180   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SIDE LIFE 200 FT.  | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   |
| VELOCITY           | 120   | 125   | 130   | 135   | 140   | 145   | 150   | 155   | 160   | 165   | 170   | 175   | 180   | 185   |
| CONFIG             | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   |
| LTC SPHERICAL      | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   |
| DATE 1/16/75       | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   |
| RUL. 47/2          | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   |
| TARE               | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   |
| BAR. 20.7 10       | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   |
| LOG 1020 1/121     | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   |
| TARE 30. SEC F     | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   |
| 1277. SEC F        | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  |
| T-CT 37. SEC F     | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  |
| 1270. SEC F        | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  |
| MACT 50.27 CM/ty   | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  |
| 100527 1/101       | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  |
| LFA 0190. MFI      | 3000  | 3000  | 3000  | 3000  | 3000  | 3000  | 3000  | 3000  | 3000  | 3000  | 3000  | 3000  | 3000  | 3000  |
| 1 040. MFI/SEC     | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  |
| MFA 0322. MFI      | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  |
| 1 040. MFI/SEC     | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  |
| MFD 0103. MFI      | 7000  | 7000  | 7000  | 7000  | 7000  | 7000  | 7000  | 7000  | 7000  | 7000  | 7000  | 7000  | 7000  | 7000  |
| 1 020. MFI/SEC     | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  |
| NO. OF GLAZES 15   | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 |
| FAH TIP SPEED      | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 |
| 500 FT/SEC         | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 |
| 3500               | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  |
| 3100               | 200   | 11.2  | 17.0  | 23.5  | 29.0  | 34.5  | 40.0  | 45.5  | 51.0  | 56.5  | 62.0  | 67.5  | 73.0  | 78.5  |
| 4000               |       |       | 0.1   | 5.5   | 7.2   | 7.0   |       |       |       |       |       |       |       |       |
| 5000               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 4300               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3000               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| OVERALL CALCULATED | 62.0  | 67.0  | 71.3  | 76.0  | 79.3  | 79.7  | 79.3  | 77.4  | 73.0  | 67.3  | 59.0  |       |       |       |
| PAW                | 75.5  | 80.7  | 84.0  | 86.0  | 83.0  | 84.1  | 83.3  | 80.0  | 87.0  | 80.5  | 71.1  |       |       |       |



STATION NO. 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020

1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020

|                    |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|-------|
| RADIAL 17. FT.     | 100   | 170.2 | 73.3  | 74.7  | 77.1  | 73.5  | 74.7  | 74.2  | 74.1  | 77.2  | 81.4  | 85.1  |  |  |  |  |  |  | 110.9 |
| VELOCITY           | 125   | 72.3  | 78.3  | 73.9  | 71.3  | 76.2  | 77.7  | 74.2  | 77.9  | 79.9  | 81.7  | 84.3  |  |  |  |  |  |  | 112.9 |
| COMPL              | 160   | 71.3  | 72.5  | 77.7  | 74.1  | 73.8  | 75.5  | 77.2  | 78.6  | 81.2  | 83.9  | 85.3  |  |  |  |  |  |  | 112.1 |
| LTC                | 200   | 73.7  | 71.5  | 72.4  | 74.9  | 76.0  | 74.5  | 78.9  | 80.6  | 81.4  | 84.4  | 86.3  |  |  |  |  |  |  | 113.1 |
| DATE 1/10/75       | 250   | 73.7  | 74.5  | 76.2  | 77.5  | 77.8  | 77.7  | 79.9  | 80.1  | 81.9  | 83.9  | 84.8  |  |  |  |  |  |  | 113.4 |
| RUL 25/3           | 315   | 74.4  | 76.3  | 77.2  | 77.4  | 74.5  | 75.7  | 80.2  | 80.9  | 82.4  | 83.7  | 84.0  |  |  |  |  |  |  | 113.9 |
| TAPE               | 400   | 72.4  | 74.2  | 74.4  | 74.2  | 74.9  | 77.2  | 79.4  | 80.1  | 81.4  | 82.9  | 82.0  |  |  |  |  |  |  | 112.0 |
| BAR 20.7           | 500   | 71.1  | 72.3  | 74.2  | 77.1  | 74.9  | 77.8  | 79.8  | 79.4  | 80.4  | 81.9  | 81.0  |  |  |  |  |  |  | 112.1 |
| 1001/20.7          | 600   | 72.9  | 74.3  | 76.4  | 75.1  | 79.4  | 82.9  | 81.9  | 82.9  | 83.7  | 83.5  | 81.0  |  |  |  |  |  |  | 114.0 |
| TAPE 30.7          | 800   | 73.6  | 75.1  | 77.1  | 79.1  | 79.0  | 81.0  | 82.7  | 83.4  | 83.4  | 82.7  | 81.3  |  |  |  |  |  |  | 114.6 |
| 1277.0             | 1000  | 72.9  | 75.2  | 77.2  | 77.9  | 73.1  | 81.3  | 83.9  | 84.4  | 84.7  | 82.4  | 80.1  |  |  |  |  |  |  | 115.2 |
| 1250.0             | 1250  | 74.0  | 77.3  | 79.7  | 81.2  | 83.3  | 84.0  | 85.9  | 86.4  | 86.7  | 82.7  | 80.6  |  |  |  |  |  |  | 117.4 |
| 1275.0             | 1500  | 74.6  | 74.5  | 87.7  | 82.3  | 83.1  | 84.0  | 85.6  | 84.0  | 83.7  | 82.5  | 80.1  |  |  |  |  |  |  | 120.7 |
| 1475.0             | 2000  | 83.0  | 83.3  | 86.7  | 85.4  | 81.5  | 84.4  | 85.9  | 84.1  | 82.5  | 82.0  | 84.1  |  |  |  |  |  |  | 120.0 |
| 1607.5             | 2500  | 77.6  | 82.3  | 85.7  | 87.3  | 80.4  | 82.1  | 83.6  | 82.8  | 81.7  | 84.3  | 82.1  |  |  |  |  |  |  | 124.0 |
| 1730.0             | 3000  | 81.9  | 84.3  | 87.1  | 87.3  | 84.9  | 85.1  | 86.4  | 86.1  | 86.2  | 86.9  | 82.0  |  |  |  |  |  |  | 120.7 |
| 1781.0             | 4000  | 81.1  | 85.1  | 89.4  | 83.5  | 83.2  | 84.1  | 87.7  | 84.4  | 82.1  | 80.5  | 80.0  |  |  |  |  |  |  | 120.7 |
| 1811.0             | 5000  | 83.3  | 86.5  | 91.8  | 83.5  | 81.1  | 83.3  | 84.7  | 84.1  | 83.7  | 83.7  | 81.7  |  |  |  |  |  |  | 120.0 |
| 1825.0             | 6000  | 79.1  | 84.3  | 87.7  | 82.4  | 83.3  | 84.3  | 84.9  | 84.0  | 84.0  | 80.9  | 80.3  |  |  |  |  |  |  | 120.3 |
| 1830.0             | 7000  | 71.5  | 83.1  | 87.5  | 82.4  | 83.2  | 84.0  | 87.3  | 84.2  | 80.9  | 84.7  | 84.0  |  |  |  |  |  |  | 120.3 |
| 1840.0             | 8000  | 77.3  | 83.1  | 87.0  | 81.7  | 84.5  | 84.3  | 87.6  | 87.3  | 85.1  | 85.4  | 84.0  |  |  |  |  |  |  | 120.2 |
| 1850.0             | 9000  | 75.3  | 80.3  | 85.4  | 80.4  | 81.7  | 83.9  | 85.4  | 86.1  | 83.4  | 82.0  | 83.1  |  |  |  |  |  |  | 120.3 |
| 1860.0             | 10000 | 73.3  | 80.3  | 82.8  | 84.2  | 82.9  | 81.0  | 83.8  | 83.0  | 80.0  | 85.7  | 80.9  |  |  |  |  |  |  | 124.9 |
| 1870.0             | 12000 | 71.0  | 76.3  | 81.5  | 85.4  | 87.5  | 80.3  | 83.9  | 84.1  | 81.4  | 85.0  | 80.4  |  |  |  |  |  |  | 124.9 |
| 1880.0             | 14000 | 70.3  | 74.8  | 79.4  | 84.3  | 80.3  | 81.1  | 81.4  | 82.9  | 80.6  | 84.3  | 79.5  |  |  |  |  |  |  | 123.7 |
| 1890.0             | 16000 | 83.0  | 73.4  | 79.0  | 83.7  | 85.1  | 84.1  | 84.9  | 86.9  | 80.2  | 83.2  | 78.4  |  |  |  |  |  |  | 123.3 |
| 1900.0             | 18000 | 87.0  | 73.6  | 75.3  | 80.2  | 82.1  | 83.3  | 82.2  | 82.5  | 85.8  | 80.2  | 79.0  |  |  |  |  |  |  | 121.9 |
| 1910.0             | 20000 | 86.3  | 82.1  | 82.4  | 77.7  | 78.9  | 81.0  | 84.1  | 83.0  | 81.2  | 77.0  | 67.0  |  |  |  |  |  |  | 118.0 |
| 1920.0             | 22000 | 87.7  | 84.7  | 84.4  | 78.3  | 76.9  | 78.0  | 79.7  | 78.0  | 74.3  | 71.4  | 66.0  |  |  |  |  |  |  | 118.0 |
| 1930.0             | 24000 | 89.0  | 84.9  | 84.0  | 77.2  | 77.4  | 79.1  | 76.5  | 78.7  | 69.8  | 69.1  | 60.1  |  |  |  |  |  |  | 122.0 |
| OVERALL MEASURED   |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |       |
| OVERALL CALCULATED |       | 81.3  | 85.6  | 84.6  | 82.5  | 83.9  | 84.7  | 86.2  | 86.3  | 86.0  | 81.1  | 80.7  |  |  |  |  |  |  | 120.8 |
| PAVE               |       | 124.8 | 140.2 | 111.7 | 115.9 | 119.4 | 119.0 | 120.0 | 122.7 | 119.7 | 110.4 | 112.2 |  |  |  |  |  |  |       |

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2  
W

PAGE 3 FULL SCALE DATA PRODUCTION PROGRAM

PHYS. DATE - MONTH 3 DAY 10 HR. 10.2

WINDS FROM 1411 IN DEGREES (ANG MAGNITUDE)

FREQ. 5% 6% 7% 8% 9% 10% 11% 12% 13% 14% 15% 16% 17% 18% 19% 20%  
 (1.02) (1.07) (1.13) (1.19) (1.27) (1.36) (1.46) (1.57) (1.69) (1.83) (2.00) (2.19) (2.41) (2.66) (3.00) (3.45)

| STATION 230. FT.   | 5%    | 6%   | 7%   | 8%   | 9%   | 10%  | 11%  | 12%  | 13%  | 14%  | 15%  | 16%  | 17% | 18% | 19% | 20% |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| VELOCITY           | 100   | 44.2 | 51.5 | 52.9 | 52.5 | 51.9 | 52.7 | 51.5 | 50.4 | 51.4 | 53.8 | 53.7 |     |     |     |     |
| VEHICLE            | 100   | 47.6 | 57.2 | 58.1 | 58.7 | 58.3 | 58.6 | 53.4 | 54.6 | 54.5 | 53.9 | 52.7 |     |     |     |     |
| CONFID             | 100   | 47.1 | 50.1 | 50.8 | 52.4 | 52.0 | 53.3 | 54.3 | 54.7 | 55.6 | 56.6 | 53.6 |     |     |     |     |
| LCC SCHEDULE       | 200   | 45.7 | 47.7 | 50.0 | 52.3 | 54.1 | 56.2 | 56.0 | 56.5 | 55.7 | 56.3 | 54.2 |     |     |     |     |
| DATE 1/14/75       | 200   | 47.6 | 51.5 | 54.1 | 57.9 | 55.9 | 57.4 | 56.9 | 56.9 | 56.9 | 56.1 | 55.6 |     |     |     |     |
| RUL 4/73           | 319   | 52.3 | 53.3 | 55.0 | 57.6 | 58.5 | 57.3 | 57.0 | 56.6 | 56.5 | 55.6 | 52.5 |     |     |     |     |
| TAPE               | 400   | 49.2 | 51.5 | 52.2 | 54.3 | 54.6 | 55.7 | 56.2 | 55.7 | 55.7 | 54.3 | 52.0 |     |     |     |     |
| BAR 20.7           | 500   | 47.4 | 57.4 | 51.3 | 54.3 | 54.6 | 57.1 | 56.6 | 54.9 | 54.7 | 53.1 | 49.7 |     |     |     |     |
| (CCT 20.7)         | 600   | 47.0 | 51.7 | 54.3 | 57.6 | 57.2 | 59.3 | 58.4 | 57.7 | 57.3 | 54.4 | 48.4 |     |     |     |     |
| TAB 30. SEC F      | 800   | 49.6 | 57.2 | 54.9 | 57.5 | 57.1 | 58.2 | 59.1 | 58.6 | 56.9 | 53.4 | 47.5 |     |     |     |     |
| (277. SEC F)       | 1000  | 47.7 | 52.3 | 55.5 | 57.4 | 56.5 | 59.1 | 58.2 | 59.4 | 57.9 | 52.9 | 45.9 |     |     |     |     |
| T-RT 30. SEC F     | 1200  | 51.6 | 53.9 | 56.4 | 58.8 | 60.6 | 61.7 | 62.0 | 61.2 | 59.7 | 52.9 | 46.0 |     |     |     |     |
| (275. SEC F)       | 1400  | 56.2 | 61.3 | 64.7 | 67.2 | 70.3 | 73.3 | 71.6 | 69.5 | 66.0 | 57.4 | 50.0 |     |     |     |     |
| MACT 4.75          | 2000  | 56.2 | 61.3 | 63.5 | 67.8 | 69.6 | 76.8 | 71.6 | 68.5 | 64.9 | 57.3 | 48.5 |     |     |     |     |
| (0.0475 MAGN)      | 2500  | 52.7 | 53.6 | 62.3 | 67.2 | 68.4 | 69.1 | 67.6 | 67.6 | 63.9 | 55.4 | 45.9 |     |     |     |     |
| MFA 0.73           | 3100  | 56.7 | 63.6 | 64.5 | 68.9 | 71.4 | 71.1 | 72.0 | 73.0 | 71.0 | 59.1 | 49.0 |     |     |     |     |
| ( 730. MAG/SEC)    | 4000  | 55.4 | 60.4 | 64.8 | 68.2 | 71.2 | 71.7 | 72.5 | 72.6 | 68.3 | 57.3 | 47.8 |     |     |     |     |
| MFR 7111           | 5000  | 57.3 | 61.6 | 66.7 | 69.5 | 72.3 | 75.6 | 75.4 | 77.7 | 69.9 | 61.0 | 52.8 |     |     |     |     |
| ( 745. MAG/SEC)    | 6000  | 52.3 | 58.6 | 62.7 | 67.6 | 71.4 | 70.6 | 71.6 | 70.1 | 64.5 | 55.8 | 44.3 |     |     |     |     |
| MFE 8623           | 8000  | 53.4 | 56.4 | 61.4 | 66.6 | 69.2 | 69.9 | 71.2 | 67.7 | 62.2 | 52.6 | 40.4 |     |     |     |     |
| ( 924. MAG/SEC)    | 10000 | 47.9 | 54.6 | 60.1 | 64.4 | 67.0 | 68.4 | 68.3 | 65.7 | 60.8 | 50.1 | 35.8 |     |     |     |     |
| NC. CF GLASS       | 15    | 43.2 | 49.6 | 55.5 | 60.2 | 62.6 | 63.5 | 63.6 | 62.0 | 55.8 | 44.0 | 27.8 |     |     |     |     |
| FAN TIP SPEED      | 10000 | 36.2 | 42.7 | 48.4 | 53.3 | 55.6 | 57.4 | 57.8 | 55.1 | 47.5 | 34.0 | 14.7 |     |     |     |     |
| 600. FT/SEC        | 20000 | 29.3 | 36.4 | 43.0 | 47.5 | 49.4 | 51.0 | 51.6 | 49.1 | 40.8 | 25.1 | 8.0  |     |     |     |     |
|                    | 25000 | 19.4 | 27.6 | 34.3 | 39.7 | 41.3 | 42.7 | 42.7 | 39.1 | 28.4 | 10.8 |      |     |     |     |     |
|                    | 31000 | 9.6  | 15.4 | 23.0 | 29.1 | 33.1 | 31.2 | 29.4 | 24.2 | 12.3 |      |      |     |     |     |     |
|                    | 40000 |      |      | 5.1  | 10.0 | 12.2 | 12.8 | 9.8  | 1.6  |      |      |      |     |     |     |     |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
|                    | 60000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| OVERALL CALCULATED |       | 65.4 | 70.2 | 74.1 | 78.0 | 81.3 | 81.9 | 81.4 | 81.7 | 77.0 | 69.1 | 63.4 |     |     |     |     |
| PAGE               |       | 79.1 | 83.4 | 87.6 | 91.5 | 95.4 | 95.2 | 95.3 | 96.0 | 91.4 | 82.5 | 74.6 |     |     |     |     |

ORIGINAL PAGE IS  
OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCED FROM PHOTOMETER  
 PHOT. RATE - MONTH 3 DAY 10 NO. 10.2  
 ALL ANGLES FROM INLET IN DEGREES (AND RADIANS)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                           | 50°    | 60°    | 70°    | 80°    | 90°    | 100°   | 110°   | 120°   | 130°   | 140°   | 150°   | 0°     | 0°     | 0°     | 0°     | 0°     | 0°     |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PAID                      | (1.02) | (1.05) | (1.08) | (1.11) | (1.14) | (1.17) | (1.20) | (1.23) | (1.26) | (1.29) | (1.32) | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) |
| PACIAL 17. FT.            | 100    | 71.5   | 73.5   | 74.7   | 75.7   | 75.3   | 76.7   | 77.9   | 78.9   | 80.2   | 85.2   | 88.0   |        |        |        |        | 113.4  |
| VEHICLE                   | 100    | 74.2   | 75.9   | 77.9   | 77.4   | 78.5   | 78.7   | 78.9   | 80.6   | 82.4   | 85.2   | 88.1   |        |        |        |        | 114.0  |
| CONFIG                    | 100    | 73.7   | 75.2   | 76.1   | 76.3   | 73.5   | 78.2   | 80.7   | 81.4   | 84.2   | 86.9   | 88.8   |        |        |        |        | 115.2  |
| LCC SCHEDULE              | 200    | 73.7   | 75.2   | 75.6   | 76.4   | 73.5   | 78.7   | 81.7   | 81.9   | 83.4   | 85.2   | 88.2   |        |        |        |        | 116.9  |
| DATE 1/14/75              | 270    | 76.8   | 77.7   | 78.9   | 78.4   | 80.7   | 82.2   | 83.7   | 84.4   | 85.8   | 87.7   | 89.1   |        |        |        |        | 117.1  |
| R/L 49/4                  | 315    | 77.5   | 79.2   | 79.7   | 81.3   | 81.5   | 82.7   | 82.9   | 83.9   | 85.2   | 87.4   | 87.0   |        |        |        |        | 117.0  |
| TAPE                      | 450    | 76.3   | 77.7   | 78.4   | 78.3   | 78.5   | 81.5   | 82.4   | 83.8   | 84.9   | 85.9   | 86.3   |        |        |        |        | 119.9  |
| BAR 25.7                  | 510    | 74.8   | 75.7   | 78.9   | 78.9   | 78.8   | 81.5   | 82.7   | 82.9   | 83.9   | 85.2   | 85.1   |        |        |        |        | 119.2  |
| 100120                    | 630    | 76.1   | 77.5   | 78.9   | 80.6   | 81.3   | 84.6   | 84.9   | 85.4   | 86.4   | 86.4   | 86.8   |        |        |        |        | 117.2  |
| TAP 38. SEC F             | 800    | 76.8   | 78.9   | 80.1   | 82.6   | 81.8   | 83.5   | 85.4   | 86.6   | 86.6   | 86.4   | 85.4   |        |        |        |        | 117.9  |
| 1270. SEC F               | 1000   | 76.1   | 78.7   | 81.4   | 81.4   | 81.8   | 84.3   | 85.9   | 86.6   | 87.2   | 88.7   | 83.3   |        |        |        |        | 117.0  |
| 1275. SEC F               | 1250   | 77.1   | 80.2   | 81.4   | 82.9   | 84.6   | 86.8   | 87.4   | 88.4   | 88.9   | 85.0   | 83.1   |        |        |        |        | 119.3  |
| 1275. SEC F               | 1600   | 74.9   | 83.6   | 85.1   | 87.2   | 88.4   | 90.6   | 90.6   | 91.4   | 90.7   | 89.3   | 83.1   |        |        |        |        | 122.4  |
| 1030-54                   | 2000   | 86.4   | 92.5   | 93.9   | 94.5   | 97.4   | 95.1   | 99.9   | 98.1   | 98.5   | 93.5   | 88.8   |        |        |        |        | 130.0  |
| 1030-54                   | 2500   | 85.6   | 86.3   | 88.9   | 92.3   | 93.2   | 95.1   | 95.9   | 95.3   | 93.5   | 87.6   | 84.6   |        |        |        |        | 120.0  |
| 1747. RPM                 | 3150   | 81.1   | 87.8   | 89.1   | 93.1   | 94.2   | 96.3   | 96.4   | 96.8   | 95.7   | 89.5   | 86.1   |        |        |        |        | 127.9  |
| 811. RPM/SEC              | 4000   | 87.8   | 91.6   | 93.3   | 97.4   | 98.4   | 100.3  | 101.0  | 104.5  | 103.4  | 98.2   | 94.3   |        |        |        |        | 133.0  |
| 7509. RPM                 | 5000   | 94.3   | 91.7   | 96.7   | 97.5   | 97.6   | 98.3   | 99.7   | 101.4  | 96.4   | 92.8   | 87.5   |        |        |        |        | 131.5  |
| 800. RPM/SEC              | 6300   | 92.3   | 98.5   | 103.7  | 104.7  | 103.3  | 106.5  | 102.0  | 107.5  | 100.4  | 98.2   | 90.8   |        |        |        |        | 136.7  |
| 823. RPM                  | 8000   | 81.5   | 89.5   | 93.3   | 97.9   | 98.2   | 97.9   | 99.8   | 101.3  | 98.3   | 91.8   | 87.4   |        |        |        |        | 131.2  |
| 924. RPM/SEC              | 10000  | 87.5   | 89.3   | 91.3   | 95.5   | 97.3   | 98.5   | 102.3  | 100.3  | 97.4   | 91.9   | 86.9   |        |        |        |        | 131.0  |
| NO. OF BLADES 1"          | 12500  | 83.7   | 87.3   | 91.4   | 94.3   | 97.7   | 98.7   | 99.7   | 99.7   | 96.6   | 91.4   | 87.4   |        |        |        |        | 130.4  |
| FAN TIP SPEED 670. FT/SEC | 16000  | 77.3   | 83.3   | 87.3   | 91.2   | 93.7   | 95.9   | 96.6   | 98.2   | 94.2   | 89.8   | 84.6   |        |        |        |        | 128.4  |
|                           | 20000  | 74.3   | 82.5   | 86.5   | 91.1   | 92.3   | 94.9   | 97.3   | 98.9   | 95.7   | 89.0   | 83.9   |        |        |        |        | 129.0  |
|                           | 25000  | 75.7   | 81.3   | 85.1   | 89.6   | 91.3   | 94.1   | 95.8   | 98.1   | 94.4   | 89.5   | 83.4   |        |        |        |        | 129.0  |
|                           | 31500  | 74.9   | 81.1   | 83.3   | 87.4   | 88.6   | 92.9   | 93.9   | 96.2   | 92.9   | 87.4   | 80.9   |        |        |        |        | 127.0  |
|                           | 40000  | 74.1   | 77.7   | 81.6   | 85.7   | 88.2   | 89.7   | 91.4   | 91.0   | 88.0   | 84.4   | 78.2   |        |        |        |        | 125.0  |
|                           | 50000  | 74.4   | 75.2   | 78.5   | 81.1   | 82.5   | 85.9   | 88.0   | 87.0   | 84.8   | 81.1   | 69.9   |        |        |        |        | 123.7  |
|                           | 63000  | 76.0   | 74.2   | 77.0   | 77.7   | 77.7   | 80.4   | 82.0   | 80.8   | 77.9   | 74.4   | 67.4   |        |        |        |        | 121.3  |
|                           | 80000  | 73.5   | 75.8   | 79.3   | 76.8   | 77.1   | 78.8   | 79.2   | 78.4   | 71.3   | 70.0   | 68.3   |        |        |        |        | 124.1  |
| OVERALL MEASUREMENT       |        | 75.9   | 102.3  | 106.3  | 108.4  | 108.5  | 109.2  | 110.6  | 112.5  | 109.1  | 104.3  | 101.7  |        |        |        |        | 142.8  |
| OVERALL CALCULATED        |        | 100.2  | 115.6  | 119.7  | 121.5  | 121.9  | 121.2  | 122.1  | 124.9  | 122.7  | 117.5  | 115.3  |        |        |        |        |        |

WIND SPEED PRESSURE LEVELS 150, 100, 70 PERCENT SE. NUM. DAYS

WINDS FROM 141.1 IN WINDS FROM 141.1

|                    | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 160    | 170    | 180    | 190    | 200    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PREC.              | (1.22) | (1.13) | (1.05) | (0.97) | (0.89) | (0.81) | (0.73) | (0.65) | (0.57) | (0.49) | (0.41) | (0.33) | (0.25) | (0.17) | (0.09) | (0.01) |
| SIDELINE 200. FT.  | 47.5   | 50.2   | 53.1   | 55.3   | 57.6   | 59.7   | 61.2   | 62.8   | 64.1   | 65.3   | 66.4   | 67.5   | 68.6   | 69.7   | 70.8   | 71.9   |
| VEHICLE (60.94 F)  | 51.1   | 51.6   | 52.1   | 52.6   | 53.1   | 53.6   | 54.1   | 54.6   | 55.1   | 55.6   | 56.1   | 56.6   | 57.1   | 57.6   | 58.1   | 58.6   |
| CC1010             | 52.5   | 53.0   | 53.5   | 54.0   | 54.5   | 55.0   | 55.5   | 56.0   | 56.5   | 57.0   | 57.5   | 58.0   | 58.5   | 59.0   | 59.5   | 60.0   |
| LCC SCHEMATAV      | 53.4   | 52.7   | 53.0   | 53.3   | 53.6   | 53.9   | 54.2   | 54.5   | 54.8   | 55.1   | 55.4   | 55.7   | 56.0   | 56.3   | 56.6   | 56.9   |
| DATE 1/14/75       | 52.6   | 55.1   | 56.8   | 58.7   | 60.8   | 62.9   | 65.0   | 67.1   | 69.2   | 71.3   | 73.4   | 75.5   | 77.6   | 79.7   | 81.8   | 83.9   |
| RUN 4/74           | 54.0   | 56.2   | 57.7   | 59.4   | 61.1   | 62.8   | 64.5   | 66.2   | 67.9   | 69.6   | 71.3   | 73.0   | 74.7   | 76.4   | 78.1   | 79.8   |
| TAFI               | 52.7   | 55.2   | 56.1   | 57.3   | 57.4   | 57.5   | 57.6   | 57.7   | 57.8   | 57.9   | 58.0   | 58.1   | 58.2   | 58.3   | 58.4   | 58.5   |
| GAP 20.7 MG        | 51.1   | 52.3   | 54.5   | 56.7   | 58.9   | 61.1   | 63.3   | 65.5   | 67.7   | 69.9   | 72.1   | 74.3   | 76.5   | 78.7   | 80.9   | 83.1   |
| (0012.0. 1/12)     | 52.2   | 54.5   | 56.4   | 58.4   | 60.3   | 62.2   | 64.1   | 66.0   | 67.9   | 69.8   | 71.7   | 73.6   | 75.5   | 77.4   | 79.3   | 81.2   |
| TAFI 30. LCC F     | 52.3   | 55.1   | 57.5   | 59.3   | 61.1   | 62.9   | 64.7   | 66.5   | 68.3   | 70.1   | 71.9   | 73.7   | 75.5   | 77.3   | 79.1   | 80.9   |
| (270. LCC K)       | 52.0   | 55.3   | 57.7   | 59.3   | 60.9   | 62.5   | 64.1   | 65.7   | 67.3   | 68.9   | 70.5   | 72.1   | 73.7   | 75.3   | 76.9   | 78.5   |
| T.ET 35. LCC F     | 52.8   | 56.8   | 58.6   | 60.3   | 61.9   | 63.5   | 65.1   | 66.7   | 68.3   | 69.9   | 71.5   | 73.1   | 74.7   | 76.3   | 77.9   | 79.5   |
| (270. LCC K)       | 54.4   | 59.4   | 62.1   | 64.8   | 67.5   | 70.2   | 72.9   | 75.6   | 78.3   | 81.0   | 83.7   | 86.4   | 89.1   | 91.8   | 94.5   | 97.2   |
| MACT 4054 MG/MS    | 61.7   | 66.8   | 72.7   | 73.5   | 74.3   | 75.0   | 75.8   | 76.5   | 77.2   | 77.9   | 78.6   | 79.3   | 80.0   | 80.7   | 81.4   | 82.1   |
| (-00454 MG/MS)     | 55.7   | 62.3   | 65.5   | 69.2   | 69.9   | 71.4   | 71.4   | 69.5   | 65.7   | 56.9   | 48.4   |        |        |        |        |        |
| NFA 7747. MP       | 54.7   | 62.3   | 65.5   | 69.2   | 69.9   | 71.4   | 71.4   | 69.5   | 65.7   | 56.9   | 48.4   |        |        |        |        |        |
| ( 011. MP/SEC)     | 62.1   | 66.3   | 69.2   | 75.6   | 74.5   | 75.4   | 75.8   | 77.0   | 74.5   | 64.0   | 50.1   |        |        |        |        |        |
| NFK 7909. MPH      | 58.5   | 66.8   | 72.4   | 74.5   | 73.5   | 73.0   | 74.2   | 74.4   | 67.1   | 59.2   | 48.8   |        |        |        |        |        |
| ( 070. MP/SEC)     | 63.5   | 72.8   | 74.7   | 79.9   | 73.4   | 75.1   | 75.6   | 79.6   | 76.8   | 62.7   | 49.8   |        |        |        |        |        |
| NFD 8143. MPH      | 53.4   | 62.6   | 67.4   | 70.1   | 72.2   | 72.4   | 72.2   | 71.6   | 64.3   | 50.3   | 43.2   |        |        |        |        |        |
| ( 0240. MP/SEC)    | 58.6   | 59.3   | 63.6   | 66.1   | 69.8   | 70.4   | 73.0   | 69.0   | 63.0   | 52.6   | 38.1   |        |        |        |        |        |
| NO. OF PLACES 15   | 47.3   | 56.4   | 61.3   | 65.2   | 67.3   | 68.3   | 67.9   | 65.7   | 58.9   | 48.8   | 32.8   |        |        |        |        |        |
| MAX TIP SPEED      | 49.2   | 48.7   | 53.7   | 58.1   | 60.3   | 61.7   | 60.6   | 59.4   | 50.8   | 37.9   | 18.9   |        |        |        |        |        |
| 670. FT/SEC        | 34.3   | 42.6   | 48.0   | 53.2   | 54.1   | 55.3   | 55.9   | 53.6   | 44.8   | 28.4   | 3.6    |        |        |        |        |        |
| 2500               | 25.7   | 34.2   | 39.6   | 44.9   | 46.3   | 47.7   | 46.7   | 44.3   | 33.1   | 14.2   |        |        |        |        |        |        |
| 3150               | 12.5   | 23.3   | 26.2   | 33.9   | 34.6   | 35.9   | 33.4   | 29.4   | 16.8   |        |        |        |        |        |        |        |
| 4600               |        | 3.5    | 18.9   | 15.9   | 16.3   | 17.2   | 14.2   | 6.0    |        |        |        |        |        |        |        |        |
| 5600               |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6350               |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8000               |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED | 69.7   | 76.5   | 81.3   | 83.6   | 83.3   | 83.3   | 83.6   | 84.2   | 79.1   | 72.1   | 66.7   |        |        |        |        |        |
| PAC.               | 83.4   | 66.5   | 93.2   | 97.3   | 98.7   | 96.9   | 96.9   | 97.6   | 94.1   | 85.7   | 78.1   |        |        |        |        |        |



ANGLES FROM INLET IN DEGREES (LONG RADIAN)

| FRQ.               | 50    | 60    | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 0     | 0     | 0     | 0     | 0     | 0     |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                    | (100) | (110) | (120) | (130) | (140) | (150) | (160) | (170) | (180) | (190) | (200) | (210) | (220) | (230) | (240) | (250) | (260) |
| SICLIER 240 FT.    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| VEHICLE            | 100   | 34.2  | 35.6  | 36.3  | 36.4  | 36.1  | 36.2  | 35.4  | 35.7  | 34.8  | 34.5  | 29.2  |       |       |       |       |       |
| CALIB              | 125   | 43.3  | 41.7  | 42.5  | 41.3  | 40.7  | 41.9  | 38.3  | 42.9  | 45.8  | 39.3  | 33.8  |       |       |       |       |       |
| LIC SCHEDULE       | 200   | 37.7  | 35.4  | 36.3  | 36.2  | 35.9  | 35.8  | 35.6  | 36.6  | 35.1  | 34.2  | 38.8  |       |       |       |       |       |
| DATE 1/14/75       | 250   | 32.8  | 34.2  | 34.4  | 37.1  | 37.1  | 37.2  | 36.4  | 36.8  | 37.9  | 34.2  | 33.8  |       |       |       |       |       |
| REL. 4/75          | 300   | 31.8  | 34.2  | 35.3  | 36.3  | 35.3  | 36.3  | 36.3  | 36.3  | 35.3  | 33.1  | 32.3  |       |       |       |       |       |
| TARE               | 400   | 33.0  | 36.2  | 37.3  | 37.4  | 40.2  | 40.2  | 39.2  | 36.2  | 36.2  | 34.4  | 32.8  |       |       |       |       |       |
| SAT 27.7           | 500   | 31.5  | 34.5  | 37.3  | 37.4  | 37.1  | 36.7  | 37.5  | 39.6  | 39.1  | 35.2  | 37.0  |       |       |       |       |       |
| 100102. 7/1/20     | 600   | 32.3  | 33.7  | 36.6  | 36.6  | 37.3  | 37.3  | 40.2  | 42.5  | 36.2  | 37.7  | 35.1  | 37.0  |       |       |       |       |
| TAB 37. TEC F      | 700   | 34.2  | 37.6  | 40.5  | 43.2  | 43.4  | 44.8  | 44.1  | 43.9  | 43.5  | 40.9  | 38.7  |       |       |       |       |       |
| 1270. TEC F        | 800   | 39.1  | 43.7  | 45.3  | 48.0  | 48.9  | 49.2  | 50.5  | 51.6  | 49.8  | 47.2  | 41.3  |       |       |       |       |       |
| T-ET 35. TEC F     | 1000  | 32.7  | 36.5  | 43.1  | 41.7  | 41.7  | 44.3  | 45.1  | 44.4  | 44.6  | 42.1  | 33.7  |       |       |       |       |       |
| 1275. TEC F        | 1250  | 34.3  | 39.2  | 43.2  | 43.9  | 43.3  | 47.2  | 47.4  | 46.1  | 47.4  | 44.5  | 34.1  |       |       |       |       |       |
| 1275. TEC F        | 1500  | 39.1  | 45.8  | 46.3  | 52.2  | 53.4  | 55.1  | 56.7  | 59.9  | 58.4  | 50.5  | 37.8  |       |       |       |       |       |
| MAC 4004. 7/1/7    | 2000  | 34.1  | 40.3  | 43.2  | 47.5  | 47.5  | 50.3  | 50.5  | 49.7  | 47.8  | 44.4  | 32.5  |       |       |       |       |       |
| 100004. 7/1/7      | 2500  | 37.2  | 42.9  | 45.1  | 49.5  | 50.2  | 53.3  | 52.8  | 51.7  | 56.4  | 49.6  | 34.5  |       |       |       |       |       |
| MFA 3737. RPT      | 3000  | 34.6  | 39.7  | 42.3  | 47.2  | 49.9  | 51.2  | 51.3  | 50.3  | 50.5  | 45.8  | 33.9  |       |       |       |       |       |
| 3240. 7/1/7        | 4000  | 32.3  | 37.7  | 40.3  | 45.2  | 46.7  | 49.2  | 49.7  | 56.2  | 49.9  | 43.9  | 31.8  |       |       |       |       |       |
| MFC 3105. RPT      | 5000  | 31.3  | 36.6  | 39.5  | 43.4  | 46.1  | 46.1  | 47.5  | 47.8  | 46.1  | 42.7  | 28.8  |       |       |       |       |       |
| 3310. 7/1/7        | 6000  | 29.2  | 33.9  | 38.4  | 41.2  | 43.1  | 45.8  | 45.5  | 44.7  | 43.8  | 39.4  | 28.1  |       |       |       |       |       |
| MFD 8023. RPT      | 8000  | 25.5  | 30.4  | 32.6  | 37.5  | 39.6  | 41.9  | 41.6  | 41.3  | 39.7  | 35.2  | 21.7  |       |       |       |       |       |
| 10000. 7/1/7       | 10000 | 24.1  | 28.8  | 30.9  | 34.9  | 37.2  | 39.2  | 39.7  | 38.6  | 37.5  | 33.8  | 18.4  |       |       |       |       |       |
| NO. OF BLADES 15   | 12500 | 22.1  | 25.7  | 27.7  | 31.3  | 33.6  | 35.3  | 36.5  | 35.1  | 32.8  | 28.2  | 7.5   |       |       |       |       |       |
| FAL TIP SPFC       | 16000 | 17.6  | 21.5  | 22.3  | 25.5  | 27.4  | 29.1  | 28.7  | 28.2  | 25.8  | 18.8  |       |       |       |       |       |       |
| 270. FT/SAC        | 20000 | 12.8  | 16.8  | 16.7  | 20.7  | 22.2  | 23.0  | 22.0  | 20.4  | 15.8  | 4.2   |       |       |       |       |       |       |
|                    | 25000 | 5.3   | 10.3  | 11.2  | 14.5  | 13.7  | 14.2  | 12.8  | 6.4   | 3.3   |       |       |       |       |       |       |       |
|                    | 31500 |       |       | 1.7   | 4.9   | 3.5   | 3.9   | 1.8   |       |       |       |       |       |       |       |       |       |
|                    | 40000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                    | 50000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                    | 63000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                    | 80000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| OVERALL CALCULATED |       | 48.7  | 52.8  | 55.1  | 56.1  | 59.5  | 61.0  | 60.2  | 60.3  | 60.3  | 56.2  | 48.9  |       |       |       |       |       |
| PAVE               |       | 50.9  | 44.1  | 64.3  | 70.5  | 72.3  | 73.8  | 73.4  | 72.9  | 72.4  | 68.1  | 58.8  |       |       |       |       |       |



PHCC DATE = NOV 13 3 47 10 AM 1972  
 WIND SPEED PRESSURE LEVELS 150. LEG. P. 70 PERCENT DE. HUM. EAVI  
 ANGLES FROM INLET IN WINDERS (LAW PAGES)

|                    | 50   | 55   | 70   | 75   | 70   | 100  | 110  | 120  | 130  | 140  | 150  | 160 | 170 | 180 | 190 | 200 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| VELOCITY 230. FT.  | 33.7 | 36.1 | 38.7 | 39.6 | 37.3 | 38.5 | 36.1 | 36.0 | 35.0 | 34.2 | 33.7 |     |     |     |     |     |
| VEHICLE            | 41.8 | 47.7 | 48.9 | 43.3 | 48.7 | 42.7 | 38.6 | 43.9 | 44.2 | 38.8 | 38.8 |     |     |     |     |     |
| CONFIG.            | 33.3 | 35.6 | 36.3 | 37.2 | 37.1 | 37.6 | 39.0 | 39.3 | 38.3 | 37.7 | 36.8 |     |     |     |     |     |
| LOC SAMLECTACV     | 34.1 | 37.3 | 38.2 | 41.1 | 33.3 | 41.5 | 41.8 | 42.2 | 41.2 | 39.7 | 37.5 |     |     |     |     |     |
| DATE 1/14/75       | 35.5 | 38.2 | 40.8 | 42.3 | 41.5 | 43.1 | 42.8 | 41.8 | 38.8 | 37.6 | 34.5 |     |     |     |     |     |
| RFL 49/0           | 36.3 | 38.9 | 42.0 | 44.3 | 43.2 | 43.6 | 42.7 | 42.5 | 41.4 | 39.4 | 35.8 |     |     |     |     |     |
| TYPE               | 38.1 | 38.3 | 40.2 | 47.1 | 41.6 | 47.5 | 42.8 | 42.5 | 41.4 | 39.4 | 35.8 |     |     |     |     |     |
| GAR 26.7 NS        | 33.5 | 37.2 | 38.3 | 41.3 | 42.2 | 43.2 | 43.7 | 42.5 | 40.9 | 37.6 | 33.3 |     |     |     |     |     |
| (US) 600 4/21      | 36.2 | 40.1 | 42.7 | 45.2 | 45.9 | 47.1 | 46.4 | 46.1 | 46.0 | 42.4 | 38.7 |     |     |     |     |     |
| TAP 37. DEG F      | 38.1 | 42.2 | 44.9 | 47.6 | 47.3 | 47.7 | 49.8 | 49.5 | 48.6 | 45.1 | 38.6 |     |     |     |     |     |
| 1270. DEG K        | 41.7 | 45.3 | 49.5 | 52.5 | 51.4 | 51.0 | 55.6 | 55.8 | 55.9 | 53.4 | 41.5 |     |     |     |     |     |
| 36. DEG F          | 37.5 | 42.2 | 45.1 | 48.7 | 48.8 | 51.2 | 51.7 | 51.8 | 50.4 | 46.9 | 38.6 |     |     |     |     |     |
| 1275. DEG K        | 37.1 | 44.5 | 47.7 | 52.3 | 50.9 | 53.0 | 53.5 | 51.9 | 50.9 | 46.9 | 38.1 |     |     |     |     |     |
| HAFT 5.35 CM/MS    | 45.6 | 51.6 | 54.8 | 54.9 | 56.8 | 58.9 | 59.3 | 57.6 | 57.2 | 52.7 | 43.0 |     |     |     |     |     |
| (00535 AS/MS)      | 49.4 | 48.4 | 49.8 | 52.5 | 54.4 | 56.9 | 57.8 | 56.4 | 54.9 | 47.6 | 37.2 |     |     |     |     |     |
| KFA 3071. RPM      | 42.8 | 47.9 | 52.2 | 53.2 | 55.3 | 57.9 | 56.2 | 56.3 | 57.4 | 49.0 | 38.9 |     |     |     |     |     |
| 1 4050. RPM/SEC    | 33.3 | 43.4 | 46.7 | 50.8 | 53.4 | 55.4 | 55.4 | 55.9 | 55.5 | 47.8 | 38.1 |     |     |     |     |     |
| RFL 3856. RPM      | 37.7 | 42.8 | 46.9 | 51.8 | 53.1 | 55.1 | 55.1 | 54.8 | 52.8 | 45.1 | 38.3 |     |     |     |     |     |
| 1 4140. RPM/SEC    | 34.9 | 38.9 | 43.9 | 46.7 | 50.3 | 52.4 | 52.8 | 52.4 | 50.7 | 42.4 | 35.3 |     |     |     |     |     |
| MS 80430. RPM      | 31.0 | 38.6 | 45.1 | 44.8 | 47.1 | 49.1 | 46.2 | 46.9 | 39.2 | 28.1 |      |     |     |     |     |     |
| 1 8240. RPM/SEC    | 28.5 | 33.4 | 37.6 | 42.1 | 44.8 | 46.9 | 47.9 | 46.3 | 44.2 | 38.4 | 21.8 |     |     |     |     |     |
| NO. OF BLADES 15   | 25.6 | 30.4 | 33.9 | 38.9 | 38.9 | 37.1 | 36.1 | 35.1 | 28.4 | 20.4 | 8.4  |     |     |     |     |     |
| PAI. TYP SPEED     | 23.8 | 24.4 | 27.0 | 31.8 | 33.9 | 38.9 | 37.1 | 36.1 | 23.4 | 20.4 | 8.4  |     |     |     |     |     |
| 330. FT/SEC        | 11.4 | 18.3 | 21.6 | 25.0 | 28.1 | 26.7 | 30.1 | 27.8 | 23.4 | 20.4 | 8.4  |     |     |     |     |     |
| 4000               | 9.8  | 11.4 | 18.1 | 19.9 | 20.0 | 20.3 | 18.8 | 11.8 |      |      |      |     |     |     |     |     |
| 4000               | 8.2  | 3.3  | 7.4  | 8.5  | 9.4  | 7.5  | 2.8  |      |      |      |      |     |     |     |     |     |
| 5000               |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |
| 6300               |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |
| 8000               |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |
| OVERALL CALCULATED | 52.8 | 59.7 | 59.9 | 62.1 | 63.4 | 65.9 | 66.2 | 65.5 | 64.7 | 59.4 | 58.8 |     |     |     |     |     |
| PAC                | 64.4 | 69.7 | 73.1 | 75.2 | 78.9 | 79.3 | 80.8 | 79.2 | 78.3 | 71.8 | 61.8 |     |     |     |     |     |





14  
5

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

HOTEL SOLBY PRESSURE LEVELS 150. DEG. F. TO 70 PERCENT RE. (MIN. 247)  
 PRESS. DATE - MARCH 3 AT 10 AM, 1962  
 VALUES FROM TABLE IN DEGREES (AND RADIANS)

|                 | 50    | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 0    | 0    | 0    | 0    | 0    |
|-----------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 50              | 50    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 60              | 51    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 81114 200 FT.   | 100   | 35.7 | 39.5 | 42.1 | 44.3 | 46.1 | 47.7 | 49.1 | 50.4 | 51.6 | 52.7 | 53.8 | 54.8 | 55.8 | 56.7 | 57.6 |
| 1 00000 1       | 100   | 35.7 | 39.5 | 42.1 | 44.3 | 46.1 | 47.7 | 49.1 | 50.4 | 51.6 | 52.7 | 53.8 | 54.8 | 55.8 | 56.7 | 57.6 |
| VEHICLE         | 125   | 42.7 | 41.9 | 40.0 | 38.2 | 36.5 | 35.0 | 33.7 | 32.5 | 31.4 | 30.4 | 29.4 | 28.5 | 27.6 | 26.7 | 25.8 |
| CONFIC          | 100   | 35.3 | 34.5 | 33.6 | 32.7 | 31.8 | 30.9 | 30.0 | 29.1 | 28.2 | 27.3 | 26.4 | 25.5 | 24.6 | 23.7 | 22.8 |
| LSC SLAVE       | 200   | 39.3 | 38.5 | 37.6 | 36.7 | 35.8 | 34.9 | 34.0 | 33.1 | 32.2 | 31.3 | 30.4 | 29.5 | 28.6 | 27.7 | 26.8 |
| DATE 1/14/75    | 200   | 39.3 | 38.5 | 37.6 | 36.7 | 35.8 | 34.9 | 34.0 | 33.1 | 32.2 | 31.3 | 30.4 | 29.5 | 28.6 | 27.7 | 26.8 |
| RUN 467         | 315   | 37.3 | 36.5 | 35.6 | 34.7 | 33.8 | 32.9 | 32.0 | 31.1 | 30.2 | 29.3 | 28.4 | 27.5 | 26.6 | 25.7 | 24.8 |
| TAPE            | 400   | 37.7 | 36.9 | 36.0 | 35.1 | 34.2 | 33.3 | 32.4 | 31.5 | 30.6 | 29.7 | 28.8 | 27.9 | 27.0 | 26.1 | 25.2 |
| BAR 20.7 10     | 500   | 35.7 | 34.9 | 34.0 | 33.1 | 32.2 | 31.3 | 30.4 | 29.5 | 28.6 | 27.7 | 26.8 | 25.9 | 25.0 | 24.1 | 23.2 |
| 100102 4000     | 600   | 35.8 | 35.0 | 34.1 | 33.2 | 32.3 | 31.4 | 30.5 | 29.6 | 28.7 | 27.8 | 26.9 | 26.0 | 25.1 | 24.2 | 23.3 |
| TAIR 37. 200 F  | 400   | 39.6 | 38.8 | 37.9 | 37.0 | 36.1 | 35.2 | 34.3 | 33.4 | 32.5 | 31.6 | 30.7 | 29.8 | 28.9 | 28.0 | 27.1 |
| 1270. 200 A     | 1000  | 43.3 | 42.5 | 41.6 | 40.7 | 39.8 | 38.9 | 38.0 | 37.1 | 36.2 | 35.3 | 34.4 | 33.5 | 32.6 | 31.7 | 30.8 |
| T-1 35. 200 F   | 1000  | 41.4 | 40.6 | 39.7 | 38.8 | 37.9 | 37.0 | 36.1 | 35.2 | 34.3 | 33.4 | 32.5 | 31.6 | 30.7 | 29.8 | 28.9 |
| 1070. 200 A     | 1000  | 45.7 | 44.9 | 44.0 | 43.1 | 42.2 | 41.3 | 40.4 | 39.5 | 38.6 | 37.7 | 36.8 | 35.9 | 35.0 | 34.1 | 33.2 |
| MAC 4000 0.7/3  | 2000  | 45.2 | 44.4 | 43.5 | 42.6 | 41.7 | 40.8 | 39.9 | 39.0 | 38.1 | 37.2 | 36.3 | 35.4 | 34.5 | 33.6 | 32.7 |
| 100000 0.7/3    | 3500  | 43.3 | 42.5 | 41.6 | 40.7 | 39.8 | 38.9 | 38.0 | 37.1 | 36.2 | 35.3 | 34.4 | 33.5 | 32.6 | 31.7 | 30.8 |
| MFA 4000 0.7/3  | 3150  | 43.2 | 42.4 | 41.5 | 40.6 | 39.7 | 38.8 | 37.9 | 37.0 | 36.1 | 35.2 | 34.3 | 33.4 | 32.5 | 31.6 | 30.7 |
| 1 400. 400/SEC  | 4900  | 49.7 | 48.9 | 48.0 | 47.1 | 46.2 | 45.3 | 44.4 | 43.5 | 42.6 | 41.7 | 40.8 | 39.9 | 39.0 | 38.1 | 37.2 |
| MFA 4395. 0.7/3 | 5600  | 47.5 | 46.7 | 45.8 | 44.9 | 44.0 | 43.1 | 42.2 | 41.3 | 40.4 | 39.5 | 38.6 | 37.7 | 36.8 | 35.9 | 35.0 |
| 1 450. 400/SEC  | 6300  | 30.8 | 30.0 | 29.1 | 28.2 | 27.3 | 26.4 | 25.5 | 24.6 | 23.7 | 22.8 | 21.9 | 21.0 | 20.1 | 19.2 | 18.3 |
| MFD 4000. 0.7/3 | 8000  | 34.6 | 33.8 | 32.9 | 32.0 | 31.1 | 30.2 | 29.3 | 28.4 | 27.5 | 26.6 | 25.7 | 24.8 | 23.9 | 23.0 | 22.1 |
| 1 920. 400/SEC  | 10000 | 32.1 | 31.3 | 30.4 | 29.5 | 28.6 | 27.7 | 26.8 | 25.9 | 25.0 | 24.1 | 23.2 | 22.3 | 21.4 | 20.5 | 19.6 |
| NO. OF SLABS 15 | 12500 | 20.4 | 19.6 | 18.7 | 17.8 | 16.9 | 16.0 | 15.1 | 14.2 | 13.3 | 12.4 | 11.5 | 10.6 | 9.7  | 8.8  | 7.9  |
| PAK TIP SPEED   | 10000 | 20.1 | 19.3 | 18.4 | 17.5 | 16.6 | 15.7 | 14.8 | 13.9 | 13.0 | 12.1 | 11.2 | 10.3 | 9.4  | 8.5  | 7.6  |
| 372. FT/SEC     | 25000 | 17.7 | 16.9 | 16.0 | 15.1 | 14.2 | 13.3 | 12.4 | 11.5 | 10.6 | 9.7  | 8.8  | 7.9  | 7.0  | 6.1  | 5.2  |
|                 | 31500 | 11.1 | 10.3 | 9.4  | 8.5  | 7.6  | 6.7  | 5.8  | 4.9  | 4.0  | 3.1  | 2.2  | 1.3  | 0.4  | 0.5  | 0.6  |
|                 | 43000 |      | 6.1  | 5.2  | 4.3  | 3.4  | 2.5  | 1.6  | 0.7  | 0.8  | 0.9  | 1.0  | 1.1  | 1.2  | 1.3  | 1.4  |
|                 | 53000 |      |      | 6.8  | 5.9  | 5.0  | 4.1  | 3.2  | 2.3  | 1.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  |
|                 | 63000 |      |      |      | 12.1 | 11.2 | 10.3 | 9.4  | 8.5  | 7.6  | 6.7  | 5.8  | 4.9  | 4.0  | 3.1  | 2.2  |
|                 | 80000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| OVERALL CALC    | ATE   | 53.8 | 50.3 | 42.5 | 35.7 | 30.8 | 26.0 | 21.4 | 17.0 | 12.6 | 8.2  | 3.8  | 0.4  | 0.0  | 0.0  | 0.0  |
| PK              | 500   | 60.0 | 73.4 | 76.0 | 79.5 | 82.3 | 84.1 | 82.6 | 81.0 | 79.6 | 73.0 | 63.0 | 52.0 | 41.0 | 30.0 | 20.0 |

|                     | 1     | 2    | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |       |       |
|---------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|----|----|-------|-------|
| RADIAL 17. FT.      | 150   | 64.3 | 72.3  | 75.2  | 74.0  | 74.0  | 73.5  | 70.9  | 66.0  | 71.2  | 75.0  | 77.3  |    |    |    |    |    |    |    |    | 107.3 |       |
| VEHICLE 1 50 FT     | 125   | 67.3 | 64.5  | 75.4  | 90.1  | 69.0  | 68.3  | 67.7  | 71.4  | 73.2  | 74.2  | 76.1  |    |    |    |    |    |    |    |    |       | 104.4 |
| COFFIC 30           | 100   | 64.3 | 65.5  | 66.2  | 67.6  | 69.0  | 71.3  | 71.7  | 73.2  | 74.4  | 76.7  | 78.3  |    |    |    |    |    |    |    |    |       | 104.4 |
| LIC 30-0-0-0-0-0-0  | 250   | 64.0 | 68.2  | 69.4  | 70.9  | 70.3  | 72.5  | 73.7  | 73.4  | 73.9  | 75.7  | 76.1  |    |    |    |    |    |    |    |    |       | 103.0 |
| DATE 1/14/75        | 250   | 64.0 | 68.2  | 69.4  | 70.9  | 70.3  | 72.5  | 73.7  | 73.4  | 73.9  | 75.7  | 76.1  |    |    |    |    |    |    |    |    |       | 100.2 |
| RL 47.8             | 315   | 67.3 | 69.7  | 70.9  | 72.1  | 72.3  | 73.5  | 73.7  | 73.0  | 75.2  | 76.4  | 76.0  |    |    |    |    |    |    |    |    |       | 107.0 |
| TAPE                | 476   | 68.1 | 68.2  | 63.4  | 70.4  | 70.9  | 72.3  | 73.2  | 74.2  | 75.4  | 75.7  | 74.6  |    |    |    |    |    |    |    |    |       | 100.3 |
| BAR 20.7 10         | 530   | 64.0 | 66.5  | 68.2  | 70.2  | 71.1  | 72.3  | 73.7  | 73.0  | 74.4  | 75.2  | 73.0  |    |    |    |    |    |    |    |    |       | 103.0 |
| 100102 07/121       | 630   | 69.1 | 68.3  | 73.0  | 73.2  | 73.0  | 75.0  | 76.2  | 76.4  | 77.0  | 77.7  | 74.0  |    |    |    |    |    |    |    |    |       | 100.0 |
| TAMB 37. DEG F      | 650   | 67.1 | 71.2  | 71.9  | 74.2  | 74.1  | 75.0  | 77.2  | 78.4  | 79.2  | 77.9  | 74.0  |    |    |    |    |    |    |    |    |       | 109.5 |
| 1270. DEG F         | 1350  | 67.4 | 70.7  | 77.3  | 74.4  | 74.3  | 77.0  | 78.4  | 79.4  | 80.9  | 79.2  | 74.0  |    |    |    |    |    |    |    |    |       | 110.7 |
| TACT 35. DEG F      | 1250  | 74.6 | 77.3  | 77.4  | 87.7  | 81.4  | 86.5  | 88.4  | 88.4  | 89.7  | 87.0  | 81.3  |    |    |    |    |    |    |    |    |       | 119.5 |
| 1275. DEG F         | 1930  | 71.9 | 76.1  | 74.7  | 81.3  | 82.4  | 84.9  | 85.0  | 85.0  | 86.4  | 83.5  | 77.0  |    |    |    |    |    |    |    |    |       | 117.1 |
| NACT 4004 30/10     | 2050  | 71.4 | 76.3  | 78.4  | 81.1  | 82.1  | 84.0  | 85.9  | 85.4  | 85.7  | 81.5  | 76.3  |    |    |    |    |    |    |    |    |       | 110.7 |
| 100104 00/10        | 2520  | 74.1 | 79.6  | 81.3  | 87.5  | 87.7  | 89.0  | 91.6  | 92.1  | 94.4  | 90.3  | 83.0  |    |    |    |    |    |    |    |    |       | 123.1 |
| MFA 547. 10         | 3150  | 72.6 | 78.3  | 81.1  | 84.6  | 84.7  | 87.0  | 87.0  | 87.6  | 86.4  | 85.3  | 80.3  |    |    |    |    |    |    |    |    |       | 120.9 |
| 1 5400 00/SEC       | 4000  | 79.1 | 82.3  | 81.4  | 87.5  | 81.7  | 81.3  | 82.0  | 81.8  | 81.1  | 84.2  | 82.3  |    |    |    |    |    |    |    |    |       | 123.0 |
| NFK 5000 00/SEC     | 5050  | 72.3 | 73.8  | 81.5  | 84.0  | 87.4  | 89.0  | 90.7  | 91.5  | 92.1  | 88.2  | 79.9  |    |    |    |    |    |    |    |    |       | 121.0 |
| 1 5000 00/SEC       | 6300  | 72.3 | 77.3  | 86.7  | 85.4  | 86.8  | 89.3  | 91.7  | 92.8  | 91.3  | 88.1  | 80.8  |    |    |    |    |    |    |    |    |       | 122.4 |
| LFS 4000 00/SEC     | 8400  | 67.7 | 74.7  | 74.5  | 82.2  | 85.2  | 87.4  | 88.3  | 89.2  | 89.7  | 83.1  | 78.1  |    |    |    |    |    |    |    |    |       | 119.0 |
| 1 4240 00/SEC       | 11000 | 68.3 | 73.6  | 77.5  | 87.5  | 83.5  | 88.5  | 88.4  | 88.4  | 89.4  | 83.1  | 78.1  |    |    |    |    |    |    |    |    |       | 119.5 |
| NO. OF SLICES 15    | 12500 | 67.3 | 72.3  | 75.4  | 87.5  | 82.7  | 85.4  | 87.2  | 87.4  | 87.6  | 81.5  | 76.0  |    |    |    |    |    |    |    |    |       | 110.5 |
| FAL TIP SPEED 16000 | 16000 | 64.7 | 63.3  | 72.5  | 77.2  | 73.6  | 82.0  | 84.3  | 85.7  | 85.8  | 79.0  | 74.0  |    |    |    |    |    |    |    |    |       | 110.2 |
| 474. FT/SEC         | 26000 | 63.7 | 68.3  | 75.3  | 75.3  | 78.2  | 81.3  | 83.0  | 84.6  | 85.1  | 78.0  | 74.1  |    |    |    |    |    |    |    |    |       | 119.7 |
|                     | 29000 | 63.7 | 67.3  | 80.3  | 74.4  | 78.5  | 79.4  | 81.1  | 82.2  | 83.2  | 76.3  | 72.2  |    |    |    |    |    |    |    |    |       | 114.2 |
|                     | 31500 | 63.4 | 66.4  | 80.5  | 73.4  | 75.3  | 78.3  | 79.9  | 81.2  | 81.6  | 75.4  | 78.4  |    |    |    |    |    |    |    |    |       | 114.0 |
|                     | 40000 | 63.4 | 65.3  | 66.9  | 70.7  | 73.9  | 75.0  | 77.4  | 77.7  | 78.2  | 72.9  | 66.0  |    |    |    |    |    |    |    |    |       | 112.3 |
|                     | 50000 | 65.5 | 66.3  | 67.5  | 69.3  | 70.1  | 72.0  | 74.3  | 73.0  | 73.7  | 70.7  | 67.0  |    |    |    |    |    |    |    |    |       | 111.3 |
|                     | 63000 | 67.7 | 66.1  | 69.0  | 68.5  | 68.1  | 70.0  | 70.7  | 70.0  | 69.3  | 69.0  | 67.0  |    |    |    |    |    |    |    |    |       | 111.0 |
|                     | 65000 | 69.8 | 67.2  | 69.6  | 68.7  | 67.8  | 69.0  | 69.5  | 69.5  | 68.3  | 70.0  | 68.3  |    |    |    |    |    |    |    |    |       | 115.0 |
| OVERALL MEASURE     |       | 84.4 | 68.9  | 81.3  | 85.3  | 87.3  | 89.0  | 106.5 | 101.0 | 101.5 | 96.7  | 82.3  |    |    |    |    |    |    |    |    |       | 122.0 |
| OVERALL CALCULATED  | 2500  | 97.9 | 103.1 | 114.1 | 109.1 | 111.4 | 112.2 | 113.3 | 113.4 | 114.5 | 110.3 | 105.4 |    |    |    |    |    |    |    |    |       |       |

ORIGINAL PAGE IS  
OF POOR QUALITY





PAGE 3 FULL SCORE DATA (2001) - Practice

Prac. 1917 - 4000 3 49 10 19.7  
 FULL SCORE LISTED 199, 200, 201 PERCENT OF 1.000, 2.000, 3.000

5000's FROM 1417 IN COLUMNS ARE LISTED

199 200 201 199 200 201 199 200 201 199 200 201 199 200 201 199 200 201 199 200 201 199 200 201

|                  | 199   | 200  | 201  | 199  | 200  | 201  | 199  | 200  | 201  | 199  | 200  | 201  | 199 | 200 | 201 | 199 | 200 | 201 | 199 | 200 | 201 | 199 | 200 | 201 |  |
|------------------|-------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| SECURE 200 FT    | 120   | 52.5 | 59.4 | 54.7 | 59.4 | 59.7 | 57.2 | 53.2 | 46.4 | 47.3 | 43.9 | 44.2 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| UNICELL 2005     | 125   | 44.0 | 44.3 | 46.3 | 47.6 | 44.1 | 47.7 | 46.7 | 47.4 | 46.7 | 44.0 | 45.5 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| CR10 16          | 140   | 41.4 | 43.9 | 46.3 | 47.4 | 47.2 | 46.9 | 44.3 | 47.9 | 46.9 | 44.2 | 44.3 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| LCC 9700 1/16" F | 250   | 41.3 | 43.3 | 44.2 | 46.3 | 47.1 | 47.5 | 45.3 | 49.3 | 49.7 | 44.0 | 44.7 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/16" F     | 250   | 44.1 | 45.3 | 47.0 | 47.7 | 48.6 | 50.7 | 51.1 | 50.0 | 49.3 | 48.1 | 45.2 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| EAL 4970         | 315   | 44.4 | 46.1 | 48.3 | 48.0 | 50.7 | 51.0 | 51.5 | 56.4 | 56.9 | 46.7 | 45.0 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA             | 422   | 42.3 | 45.2 | 47.4 | 48.5 | 47.2 | 50.0 | 50.4 | 50.3 | 49.4 | 47.9 | 47.9 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| EAL 4970         | 520   | 42.4 | 44.6 | 46.3 | 48.1 | 49.6 | 50.7 | 51.1 | 56.2 | 56.2 | 47.1 | 47.4 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| LOGIC 20 1/2" F  | 620   | 44.3 | 47.3 | 47.2 | 51.2 | 52.7 | 53.3 | 53.7 | 53.0 | 52.3 | 49.7 | 42.4 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA             | 620   | 44.1 | 47.3 | 47.1 | 51.1 | 52.1 | 53.3 | 54.1 | 53.7 | 52.3 | 44.7 | 41.0 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| EAL 4970         | 1000  | 47.7 | 49.3 | 51.9 | 51.3 | 52.2 | 54.3 | 55.2 | 55.3 | 54.7 | 49.9 | 46.7 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 1000  | 47.4 | 49.4 | 51.1 | 51.7 | 52.7 | 54.7 | 54.0 | 63.3 | 62.0 | 57.2 | 44.9 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 1000  | 48.4 | 51.3 | 52.2 | 55.3 | 51.3 | 54.0 | 54.0 | 63.3 | 62.0 | 57.4 | 44.9 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 1000  | 48.4 | 51.3 | 52.2 | 55.3 | 51.3 | 54.0 | 54.0 | 63.3 | 62.0 | 57.4 | 44.9 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 1000  | 48.3 | 51.3 | 52.3 | 55.3 | 51.7 | 54.4 | 54.9 | 65.0 | 67.4 | 56.9 | 45.4 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 1000  | 48.0 | 51.3 | 52.2 | 54.4 | 54.4 | 56.7 | 57.0 | 65.7 | 66.5 | 56.0 | 45.0 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 1000  | 51.1 | 51.1 | 55.3 | 57.2 | 57.7 | 58.4 | 58.4 | 68.1 | 64.3 | 56.3 | 46.3 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 1000  | 44.3 | 51.3 | 52.2 | 56.5 | 55.7 | 55.9 | 66.7 | 65.2 | 62.4 | 53.3 | 42.0 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 1000  | 47.3 | 51.3 | 54.4 | 56.3 | 60.0 | 56.1 | 66.4 | 64.4 | 61.3 | 51.0 | 39.3 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 1000  | 42.3 | 49.4 | 54.1 | 56.6 | 62.2 | 64.2 | 63.7 | 61.7 | 54.5 | 47.0 | 34.9 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 1000  | 39.5 | 45.1 | 50.3 | 56.0 | 57.3 | 56.2 | 63.2 | 58.3 | 54.3 | 45.3 | 34.3 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 1000  | 36.2 | 42.4 | 47.3 | 52.3 | 52.2 | 54.5 | 56.0 | 59.3 | 51.0 | 36.7 | 22.0 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 1000  | 23.6 | 28.2 | 48.4 | 44.3 | 47.5 | 49.9 | 49.3 | 47.0 | 43.0 | 29.3 | 9.7  |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 1000  | 22.4 | 24.3 | 35.3 | 39.2 | 41.4 | 43.0 | 43.0 | 41.1 | 35.3 | 19.3 |      |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 25120 | 13.9 | 19.3 | 25.0 | 30.7 | 33.3 | 34.7 | 33.7 | 30.1 | 23.1 | 3.0  |      |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 31320 | 1.0  | 6.3  | 14.2 | 21.1 | 22.3 | 23.4 | 21.1 | 13.0 | 5.5  |      |      |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 39000 |      |      |      | 2.4  | 4.1  | 4.9  | 1.4  |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 53600 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 63000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 74000 | 62.4 | 64.2 | 69.4 | 73.3 | 73.4 | 73.3 | 74.2 | 74.0 | 73.9 | 69.7 | 57.2 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATA 1/2" F      | 74000 | 74.2 | 68.4 | 64.3 | 69.5 | 69.3 | 68.7 | 68.5 | 68.2 | 66.3 | 70.0 | 68.0 |     |     |     |     |     |     |     |     |     |     |     |     |  |

CORRECTED PRESSURE LEVELS (50. DEG. F) TO 70 PERCENT REL. HUM. (74 F)

ANGLES FROM INLET IN DEGREES (AKA RADIAN)

REF. (10.0) (11.0) (12.0) (13.0) (14.0) (15.0) (16.0) (17.0) (18.0) (19.0) (20.0) (21.0) (22.0) (23.0) (24.0) (25.0) (26.0) (27.0) (28.0) (29.0) (30.0) (31.0) (32.0) (33.0) (34.0) (35.0) (36.0) (37.0) (38.0) (39.0) (40.0) (41.0) (42.0) (43.0) (44.0) (45.0) (46.0) (47.0) (48.0) (49.0) (50.0)

|                     | 50.   | 60.  | 70.   | 80.   | 90.   | 100.  | 110.  | 120.  | 130.  | 140.  | 150.  | 160.  | 170. | 180. | 190. | 200.  |       |
|---------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|
| RADIAL 17. FT.      | 63    |      |       |       |       |       |       |       |       |       |       |       |      |      |      |       |       |
| VELOCITY            | 125   | 72.0 | 72.0  | 73.1  | 74.1  | 74.5  | 74.3  | 72.2  | 70.9  | 72.2  | 70.2  | 79.3  |      |      |      | 100.0 |       |
| CORFIC              | 160   | 65.5 | 67.5  | 67.7  | 69.1  | 69.5  | 69.5  | 71.9  | 73.2  | 75.7  | 76.2  | 79.1  |      |      |      |       | 100.0 |
| LCC SIMULTANEOUS    | 200   | 65.3 | 67.2  | 67.7  | 69.1  | 71.1  | 72.5  | 73.9  | 75.9  | 76.9  | 79.7  | 80.1  |      |      |      |       | 100.0 |
| DATE 1/14/75        | 250   | 67.3 | 70.7  | 71.7  | 72.7  | 72.7  | 73.7  | 74.7  | 74.7  | 75.9  | 77.9  | 78.0  |      |      |      |       | 100.0 |
| RUN 47/13           | 310   | 69.5 | 71.5  | 72.7  | 74.1  | 74.5  | 74.9  | 75.4  | 75.3  | 76.4  | 76.7  | 78.0  |      |      |      |       | 100.0 |
| TAPE                | 400   | 67.9 | 67.5  | 70.7  | 71.9  | 71.9  | 73.3  | 74.7  | 75.7  | 76.9  | 77.4  | 77.1  |      |      |      |       | 100.0 |
| BAR 23.7 MG         | 500   | 56.5 | 68.3  | 69.4  | 71.9  | 72.6  | 74.3  | 75.4  | 75.2  | 75.9  | 76.7  | 75.0  |      |      |      |       | 107.7 |
| (1001'20' 47/13)    | 600   | 69.5 | 72.3  | 73.7  | 76.2  | 76.3  | 78.2  | 78.2  | 78.9  | 79.4  | 79.5  | 78.0  |      |      |      |       | 107.9 |
| TANG 37. DEG F      | 800   | 66.9 | 71.3  | 73.4  | 75.4  | 75.3  | 77.1  | 78.7  | 79.4  | 80.2  | 79.2  | 76.3  |      |      |      |       | 111.0 |
| (276. DEG N)        | 1000  | 61.5 | 72.3  | 74.4  | 75.2  | 75.3  | 78.3  | 80.2  | 80.9  | 82.4  | 79.9  | 76.1  |      |      |      |       | 110.0 |
| TOT 35. DEG F       | 1200  | 72.5 | 76.5  | 78.1  | 80.7  | 81.9  | 84.1  | 85.9  | 86.9  | 86.9  | 89.2  | 80.3  |      |      |      |       | 112.0 |
| (275. DEG N)        | 1600  | 77.6 | 81.6  | 84.1  | 86.3  | 87.1  | 88.7  | 92.2  | 91.7  | 95.7  | 91.2  | 84.3  |      |      |      |       | 117.3 |
| HACT 4.04 64/13     | 2000  | 73.4 | 77.1  | 79.7  | 82.9  | 83.1  | 86.4  | 87.4  | 86.9  | 86.4  | 82.5  | 78.3  |      |      |      |       | 122.0 |
| (100000 64/13)      | 2500  | 74.1 | 78.3  | 81.7  | 84.3  | 85.7  | 89.9  | 89.9  | 91.1  | 92.7  | 85.3  | 81.3  |      |      |      |       | 110.1 |
| MFA 5000 RPM        | 3100  | 76.9 | 82.1  | 83.1  | 84.1  | 85.9  | 92.4  | 92.9  | 95.9  | 99.4  | 89.0  | 85.0  |      |      |      |       | 121.7 |
| (617. RAD/SEC)      | 4000  | 77.3 | 81.3  | 83.1  | 84.1  | 85.9  | 92.4  | 92.9  | 95.9  | 99.4  | 89.0  | 85.0  |      |      |      |       | 120.3 |
| WTK 6140 RPM        | 5000  | 77.7 | 81.7  | 84.3  | 85.7  | 87.1  | 94.5  | 95.5  | 93.7  | 93.1  | 87.9  | 82.2  |      |      |      |       | 120.2 |
| (630. RAD/SEC)      | 6000  | 71.8 | 79.1  | 85.9  | 87.4  | 88.8  | 92.3  | 93.0  | 93.3  | 92.1  | 86.1  | 81.3  |      |      |      |       | 129.0 |
| NFS 6243 RPM        | 8000  | 72.5 | 77.2  | 81.4  | 84.4  | 88.7  | 90.9  | 91.3  | 92.5  | 92.2  | 85.4  | 80.8  |      |      |      |       | 123.0 |
| (924. RAD/SEC)      | 10000 | 71.3 | 76.1  | 80.3  | 85.2  | 88.4  | 89.5  | 90.4  | 91.4  | 91.4  | 85.4  | 80.6  |      |      |      |       | 124.9 |
| NO. OF PLACES 15    | 12000 | 72.2 | 74.5  | 78.9  | 82.3  | 84.9  | 87.4  | 95.7  | 91.4  | 90.6  | 83.5  | 78.0  |      |      |      |       | 124.1 |
| FAN TIP SPEED 16000 | 20000 | 67.2 | 71.4  | 75.5  | 79.7  | 82.9  | 85.1  | 88.1  | 88.7  | 87.4  | 81.4  | 76.6  |      |      |      |       | 121.4 |
| 514. FT/SEC         | 25000 | 65.7 | 70.3  | 74.7  | 78.3  | 81.2  | 84.0  | 86.2  | 86.6  | 87.1  | 81.2  | 75.0  |      |      |      |       | 118.0 |
|                     | 31000 | 65.5 | 69.6  | 73.1  | 76.7  | 79.3  | 82.1  | 84.1  | 86.2  | 85.2  | 79.0  | 74.2  |      |      |      |       | 110.0 |
|                     | 40000 | 64.7 | 68.1  | 71.5  | 74.2  | 79.3  | 81.3  | 82.4  | 84.4  | 84.1  | 77.9  | 72.0  |      |      |      |       | 117.1 |
|                     | 50000 | 64.4 | 67.3  | 69.7  | 72.7  | 75.3  | 78.0  | 79.9  | 81.0  | 80.7  | 75.4  | 68.3  |      |      |      |       | 110.7 |
|                     | 60000 | 67.3 | 68.3  | 69.4  | 73.7  | 72.1  | 75.3  | 76.8  | 76.8  | 75.4  | 73.0  | 68.5  |      |      |      |       | 110.0 |
|                     | 63000 | 68.9 | 66.4  | 69.3  | 69.3  | 69.6  | 71.0  | 71.9  | 71.5  | 70.8  | 70.6  | 68.0  |      |      |      |       | 113.5 |
|                     | 65000 | 69.3 | 67.4  | 69.0  | 68.9  | 69.1  | 70.3  | 70.0  | 70.2  | 68.8  | 69.9  | 69.1  |      |      |      |       | 112.9 |
| OVERALL MEASURED    |       | 64.7 | 60.5  | 63.0  | 66.1  | 68.1  | 70.1  | 70.0  | 70.2  | 68.8  | 69.9  | 69.1  |      |      |      |       | 110.2 |
| OVERALL CALCULATED  |       | 99.3 | 104.3 | 106.9 | 111.6 | 113.7 | 115.4 | 116.2 | 116.6 | 116.2 | 111.0 | 107.7 |      |      |      |       | 104.0 |

|                    | 50°    | 60°    | 70°    | 80°    | 90°    | 100°   | 110°   | 120°   | 130°   | 140°   | 150°   | 0°     | 0°     | 0°     | 0°     | 0°     |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PRG. (10.2)        | (10.2) | (10.2) | (10.2) | (10.2) | (10.2) | (10.2) | (10.2) | (10.2) | (10.2) | (10.2) | (10.2) | (10.2) | (10.2) | (10.2) | (10.2) | (10.2) |
| SIDELINE 200 FT.   | 63     |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE            | 100    | 49.3   | 49.3   | 51.7   | 51.9   | 52.7   | 52.2   | 49.5   | 47.1   | 44.4   | 40.5   | 47.9   |        |        |        |        |
| CONFIG             | 125    | 44.9   | 45.4   | 49.1   | 47.2   | 49.6   | 46.2   | 47.7   | 49.7   | 49.5   | 47.9   | 46.5   |        |        |        |        |
| LCC SCHE RETARD    | 160    | 42.3   | 45.1   | 45.1   | 47.4   | 46.7   | 47.3   | 49.1   | 49.2   | 50.1   | 50.2   | 47.2   |        |        |        |        |
| DATE 1/14/75       | 200    | 42.3   | 44.3   | 45.7   | 47.5   | 49.1   | 50.3   | 51.3   | 51.8   | 51.2   | 50.6   | 46.0   |        |        |        |        |
| RUN 09/10          | 250    | 44.4   | 47.4   | 49.0   | 51.1   | 53.3   | 51.4   | 51.7   | 50.7   | 50.1   | 49.9   | 45.2   |        |        |        |        |
| TAPE               | 315    | 46.2   | 48.3   | 50.5   | 52.2   | 52.7   | 52.3   | 52.3   | 51.6   | 50.5   | 50.2   | 46.0   |        |        |        |        |
| BAR 20.7 Hz        | 400    | 44.2   | 46.7   | 48.4   | 49.8   | 49.7   | 51.7   | 51.4   | 51.3   | 50.4   | 48.8   | 44.2   |        |        |        |        |
| 1001020 Hz         | 500    | 42.9   | 45.9   | 47.1   | 49.1   | 50.3   | 51.7   | 52.1   | 50.7   | 49.7   | 47.3   | 42.7   |        |        |        |        |
| 370 Hz             | 600    | 45.9   | 49.3   | 51.5   | 53.7   | 54.3   | 54.1   | 54.7   | 54.3   | 53.1   | 50.4   | 43.4   |        |        |        |        |
| TAPE 370 Hz F      | 800    | 44.7   | 47.7   | 50.1   | 53.1   | 52.7   | 54.2   | 55.1   | 54.6   | 53.6   | 49.9   | 42.5   |        |        |        |        |
| 12700 Hz           | 1000   | 44.3   | 48.3   | 51.7   | 57.7   | 58.2   | 58.3   | 58.4   | 58.0   | 55.7   | 50.4   | 41.9   |        |        |        |        |
| Y-ET 350 Hz F      | 1250   | 41.4   | 53.2   | 55.5   | 57.4   | 58.2   | 61.3   | 62.7   | 61.4   | 60.3   | 55.1   | 45.6   |        |        |        |        |
| (2750 Hz F)        | 1600   | 53.2   | 58.7   | 61.4   | 57.5   | 64.3   | 65.8   | 68.1   | 66.6   | 63.5   | 61.1   | 49.3   |        |        |        |        |
| MACT 4000 Hz       | 2000   | 48.7   | 53.3   | 56.5   | 58.3   | 62.3   | 62.7   | 63.1   | 61.3   | 59.9   | 52.3   | 42.7   |        |        |        |        |
| (20000 Hz)         | 2500   | 49.2   | 54.1   | 58.5   | 62.2   | 63.4   | 65.2   | 65.4   | 65.3   | 64.9   | 58.4   | 45.2   |        |        |        |        |
| MFA 5000 Hz        | 3150   | 51.7   | 57.7   | 56.3   | 64.7   | 67.4   | 68.4   | 68.3   | 69.7   | 71.2   | 58.6   | 46.6   |        |        |        |        |
| (0170 Hz/SEC)      | 4000   | 51.5   | 57.1   | 61.1   | 67.3   | 73.3   | 70.9   | 70.5   | 67.1   | 63.8   | 58.2   | 46.5   |        |        |        |        |
| MFX 6010 Hz        | 5000   | 51.3   | 56.1   | 60.7   | 66.7   | 69.7   | 69.9   | 69.3   | 66.7   | 63.9   | 55.2   | 43.3   |        |        |        |        |
| (0330 Hz/SEC)      | 6300   | 49.0   | 53.4   | 59.7   | 62.7   | 63.9   | 66.9   | 66.6   | 65.4   | 61.8   | 52.0   | 40.3   |        |        |        |        |
| MFS 8620 Hz        | 8000   | 44.3   | 50.4   | 55.3   | 60.5   | 62.7   | 64.4   | 63.7   | 63.2   | 60.2   | 49.7   | 36.6   |        |        |        |        |
| (9240 Hz/SEC)      | 10000  | 41.3   | 47.3   | 52.6   | 57.9   | 59.3   | 61.4   | 61.3   | 60.5   | 57.0   | 46.0   | 31.8   |        |        |        |        |
| NO. OF PLATES 15   | 12500  | 37.7   | 43.3   | 48.3   | 53.7   | 55.2   | 57.5   | 56.8   | 57.2   | 52.8   | 39.7   | 23.5   |        |        |        |        |
| FAV. TIP SPEED     | 16000  | 30.4   | 36.7   | 41.9   | 46.5   | 49.5   | 50.9   | 50.9   | 49.8   | 44.0   | 30.3   | 19.4   |        |        |        |        |
| 5100 FT/SEC        | 20000  | 23.4   | 30.1   | 36.2   | 41.7   | 43.1   | 44.8   | 44.8   | 43.6   | 36.3   | 20.9   |        |        |        |        |        |
|                    | 25000  | 14.4   | 21.3   | 27.7   | 32.2   | 34.3   | 35.7   | 35.8   | 32.3   | 23.9   | 6.7    |        |        |        |        |        |
|                    | 31500  | 2.3    | 10.1   | 16.3   | 21.5   | 23.3   | 24.4   | 21.8   | 17.7   | 7.3    |        |        |        |        |        |        |
|                    | 40000  |        |        |        | 3.4    | 5.4    | 5.5    | 2.4    |        |        |        |        |        |        |        |        |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |        | 61.2   | 65.9   | 69.5   | 73.4   | 75.7   | 77.1   | 77.2   | 75.9   | 74.8   | 66.6   | 58.6   |        |        |        |        |
| PRG                |        | 74.2   | 79.6   | 83.0   | 87.5   | 89.9   | 91.1   | 91.0   | 86.0   | 80.9   | 70.4   | 70.7   |        |        |        |        |



1908

PAGE 1 FULL SCALE DATA PREDICTED

PRG. DATE = MONTH 3 AT 10 HR. 10.2

ANGLE FROM INLET IN DEGREES (AND RADIAN)

FREQ. (1.02)(1.03)(1.04)(1.05)(1.07)(1.11)(1.16)(1.20)(1.24)(1.28)(1.32)(1.36)(1.40)(1.44)(1.48)(1.52)(1.56)(1.60)(1.64)(1.68)(1.72)(1.76)(1.80)(1.84)(1.88)(1.92)(1.96)(2.00)

|                     | 30    | 60    | 70    | 75    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 0° | 0° | 0° | 0° | 0° | 0° |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|
| RADIAL 17. FT.      | 63    | 73    | 73.3  | 71.4  | 74.1  | 75.0  | 76.4  | 75.2  | 73.4  | 75.7  | 79.4  | 81.0  |    |    |    |    |    |    |
| VEHICLE             | 100   | 63.5  | 73.3  | 71.4  | 74.1  | 75.0  | 76.4  | 75.2  | 73.4  | 75.7  | 79.4  | 81.0  |    |    |    |    |    |    |
| CONFIG              | 125   | 59.3  | 71.3  | 72.2  | 72.1  | 73.5  | 73.0  | 73.4  | 75.9  | 77.2  | 78.9  | 81.1  |    |    |    |    |    |    |
| CONF. 30            | 150   | 55.0  | 70.3  | 73.4  | 71.4  | 71.0  | 72.3  | 74.9  | 75.7  | 76.2  | 80.9  | 82.1  |    |    |    |    |    |    |
| DATE 1/14/75        | 200   | 50.0  | 67.5  | 69.3  | 71.6  | 73.3  | 75.3  | 76.4  | 77.9  | 79.4  | 81.9  | 83.6  |    |    |    |    |    |    |
| TIME 49/11          | 250   | 45.8  | 72.2  | 73.7  | 72.0  | 74.0  | 75.7  | 77.4  | 77.7  | 78.4  | 80.7  | 82.1  |    |    |    |    |    |    |
| BAR 29.7 IN         | 315   | 42.0  | 74.3  | 74.9  | 71.4  | 76.3  | 77.5  | 77.9  | 76.4  | 79.4  | 81.4  | 81.0  |    |    |    |    |    |    |
| TAPE                | 450   | 38.1  | 71.5  | 72.4  | 73.5  | 74.0  | 76.3  | 76.9  | 77.9  | 78.9  | 80.2  | 80.3  |    |    |    |    |    |    |
| BAR 29.7 IN         | 500   | 33.3  | 70.3  | 71.7  | 73.7  | 74.4  | 75.0  | 77.9  | 77.9  | 78.7  | 79.2  | 78.0  |    |    |    |    |    |    |
| TAPE                | 600   | 28.1  | 72.3  | 74.2  | 74.2  | 77.3  | 79.1  | 79.0  | 80.4  | 81.4  | 81.3  | 79.6  |    |    |    |    |    |    |
| TAPE                | 800   | 23.9  | 73.8  | 75.4  | 74.9  | 77.3  | 78.6  | 80.9  | 81.2  | 81.7  | 80.7  | 79.3  |    |    |    |    |    |    |
| TAPE                | 1000  | 19.9  | 73.7  | 76.2  | 77.2  | 77.4  | 81.1  | 82.2  | 82.7  | 83.4  | 81.2  | 78.3  |    |    |    |    |    |    |
| TAPE                | 1250  | 15.1  | 76.3  | 78.4  | 78.5  | 82.1  | 84.3  | 85.0  | 85.9  | 85.9  | 82.0  | 79.1  |    |    |    |    |    |    |
| TAPE                | 1500  | 10.4  | 88.6  | 90.4  | 93.5  | 94.1  | 95.4  | 94.9  | 94.9  | 92.7  | 90.3  | 84.3  |    |    |    |    |    |    |
| TAPE                | 1750  | 5.8   | 85.3  | 82.7  | 87.3  | 86.7  | 89.1  | 91.2  | 90.4  | 89.2  | 84.3  | 80.0  |    |    |    |    |    |    |
| TAPE                | 2000  | 1.2   | 81.8  | 83.2  | 87.3  | 86.9  | 90.0  | 91.6  | 90.7  | 84.3  | 80.0  | 82.3  |    |    |    |    |    |    |
| TAPE                | 2500  | 0.6   | 82.3  | 86.3  | 87.5  | 84.2  | 95.1  | 95.6  | 95.6  | 95.7  | 90.9  | 87.1  |    |    |    |    |    |    |
| TAPE                | 3150  | 0.2   | 82.1  | 85.9  | 87.4  | 91.9  | 93.4  | 94.8  | 94.8  | 92.9  | 87.2  | 83.0  |    |    |    |    |    |    |
| TAPE                | 4000  | 0.1   | 82.3  | 84.3  | 87.4  | 95.9  | 100.1 | 100.0 | 102.0 | 97.4  | 90.7  | 86.0  |    |    |    |    |    |    |
| TAPE                | 5000  | 0.1   | 81.6  | 85.2  | 86.5  | 93.0  | 93.3  | 95.0  | 95.8  | 93.1  | 87.9  | 83.0  |    |    |    |    |    |    |
| TAPE                | 6300  | 0.0   | 81.9  | 84.3  | 89.3  | 91.2  | 92.7  | 95.3  | 94.1  | 92.3  | 87.1  | 82.4  |    |    |    |    |    |    |
| TAPE                | 8000  | 0.0   | 81.3  | 84.1  | 84.5  | 91.1  | 93.3  | 94.3  | 94.1  | 93.4  | 87.7  | 82.0  |    |    |    |    |    |    |
| TAPE                | 10000 | 0.0   | 77.3  | 82.7  | 86.6  | 89.2  | 90.7  | 94.0  | 93.4  | 91.9  | 85.0  | 80.9  |    |    |    |    |    |    |
| TAPE                | 12500 | 0.0   | 74.3  | 78.3  | 83.5  | 85.9  | 88.4  | 93.0  | 92.3  | 89.4  | 83.3  | 79.1  |    |    |    |    |    |    |
| TAPE                | 15000 | 0.0   | 73.4  | 77.4  | 82.7  | 84.5  | 87.0  | 89.3  | 92.1  | 89.4  | 83.5  | 78.4  |    |    |    |    |    |    |
| TAPE                | 20000 | 0.0   | 72.3  | 76.1  | 81.1  | 83.3  | 85.4  | 88.6  | 89.6  | 87.4  | 81.0  | 76.9  |    |    |    |    |    |    |
| TAPE                | 25000 | 0.0   | 73.3  | 75.1  | 77.3  | 82.1  | 85.1  | 86.6  | 87.7  | 86.9  | 80.7  | 74.0  |    |    |    |    |    |    |
| TAPE                | 31500 | 0.0   | 68.5  | 72.2  | 76.5  | 78.5  | 81.7  | 83.9  | 84.5  | 83.4  | 76.1  | 70.0  |    |    |    |    |    |    |
| TAPE                | 40000 | 0.0   | 67.2  | 71.3  | 77.9  | 75.5  | 77.9  | 80.0  | 76.4  | 78.6  | 74.0  | 68.9  |    |    |    |    |    |    |
| TAPE                | 50000 | 0.0   | 66.5  | 70.8  | 69.8  | 72.1  | 73.4  | 74.8  | 72.8  | 72.0  | 70.9  | 70.4  |    |    |    |    |    |    |
| TAPE                | 63000 | 0.0   | 64.5  | 70.3  | 68.9  | 70.3  | 70.0  | 70.7  | 76.2  | 69.0  | 70.9  | 70.1  |    |    |    |    |    |    |
| OVERALL MEASUREMENT |       | 68.7  | 64.4  | 68.1  | 61.7  | 62.3  | 65.0  | 65.9  | 66.5  | 64.3  | 66.6  | 66.1  |    |    |    |    |    |    |
| OVERALL CALCULATION |       | 101.4 | 107.9 | 112.1 | 115.6 | 115.6 | 118.4 | 118.9 | 120.0 | 117.2 | 112.7 | 109.4 |    |    |    |    |    |    |

ORIGINAL PAGE IS OF POOR QUALITY

MODEL SLOPE PRESSURE LEVELS (59. DEG. F. TO 70 PERCENTY RE. MIN. SAV)

PREC. DATE - MONTH 3 AV 10 NO. 10.2

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | 56° (1.02) | 60° (1.05) | 70° (1.22) | 75° (1.31) | 80° (1.39) | 85° (1.49) | 90° (1.57) | 95° (1.65) | 100° (1.74) | 110° (1.91) | 120° (2.09) | 130° (2.28) | 140° (2.46) | 150° (2.64) | 160° (2.81) | 170° (2.99) | 180° (3.14) |
|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SIDELINE 200 FT.    | 50         | 50         | 50         | 50         | 50         | 50         | 50         | 50         | 50          | 50          | 50          | 50          | 50          | 50          | 50          | 50          | 50          |
| VEHICLE (6000)      | 100        | 100        | 100        | 100        | 100        | 100        | 100        | 100        | 100         | 100         | 100         | 100         | 100         | 100         | 100         | 100         | 100         |
| CONFIG              | 125        | 125        | 125        | 125        | 125        | 125        | 125        | 125        | 125         | 125         | 125         | 125         | 125         | 125         | 125         | 125         | 125         |
| LCC SCHEDULE        | 160        | 160        | 160        | 160        | 160        | 160        | 160        | 160        | 160         | 160         | 160         | 160         | 160         | 160         | 160         | 160         | 160         |
| DATE 1/14/75        | 200        | 200        | 200        | 200        | 200        | 200        | 200        | 200        | 200         | 200         | 200         | 200         | 200         | 200         | 200         | 200         | 200         |
| RUN 49/11           | 250        | 250        | 250        | 250        | 250        | 250        | 250        | 250        | 250         | 250         | 250         | 250         | 250         | 250         | 250         | 250         | 250         |
| TARE                | 315        | 315        | 315        | 315        | 315        | 315        | 315        | 315        | 315         | 315         | 315         | 315         | 315         | 315         | 315         | 315         | 315         |
| BAR 20.7            | 400        | 400        | 400        | 400        | 400        | 400        | 400        | 400        | 400         | 400         | 400         | 400         | 400         | 400         | 400         | 400         | 400         |
| TAID 30.000         | 500        | 500        | 500        | 500        | 500        | 500        | 500        | 500        | 500         | 500         | 500         | 500         | 500         | 500         | 500         | 500         | 500         |
| T.ET 30.000         | 600        | 600        | 600        | 600        | 600        | 600        | 600        | 600        | 600         | 600         | 600         | 600         | 600         | 600         | 600         | 600         | 600         |
| WAF 0430            | 700        | 700        | 700        | 700        | 700        | 700        | 700        | 700        | 700         | 700         | 700         | 700         | 700         | 700         | 700         | 700         | 700         |
| WAF 0572            | 800        | 800        | 800        | 800        | 800        | 800        | 800        | 800        | 800         | 800         | 800         | 800         | 800         | 800         | 800         | 800         | 800         |
| WAF 0623            | 900        | 900        | 900        | 900        | 900        | 900        | 900        | 900        | 900         | 900         | 900         | 900         | 900         | 900         | 900         | 900         | 900         |
| NO. OF BLAZES 15    | 1000       | 1000       | 1000       | 1000       | 1000       | 1000       | 1000       | 1000       | 1000        | 1000        | 1000        | 1000        | 1000        | 1000        | 1000        | 1000        | 1000        |
| FAH TIP SPEED 16000 | 1200       | 1200       | 1200       | 1200       | 1200       | 1200       | 1200       | 1200       | 1200        | 1200        | 1200        | 1200        | 1200        | 1200        | 1200        | 1200        | 1200        |
| 502. FT/SEC 20700   | 1400       | 1400       | 1400       | 1400       | 1400       | 1400       | 1400       | 1400       | 1400        | 1400        | 1400        | 1400        | 1400        | 1400        | 1400        | 1400        | 1400        |
| 25000               | 1600       | 1600       | 1600       | 1600       | 1600       | 1600       | 1600       | 1600       | 1600        | 1600        | 1600        | 1600        | 1600        | 1600        | 1600        | 1600        | 1600        |
| 31500               | 1800       | 1800       | 1800       | 1800       | 1800       | 1800       | 1800       | 1800       | 1800        | 1800        | 1800        | 1800        | 1800        | 1800        | 1800        | 1800        | 1800        |
| 40000               | 2000       | 2000       | 2000       | 2000       | 2000       | 2000       | 2000       | 2000       | 2000        | 2000        | 2000        | 2000        | 2000        | 2000        | 2000        | 2000        | 2000        |
| 53000               | 2200       | 2200       | 2200       | 2200       | 2200       | 2200       | 2200       | 2200       | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        |
| 63000               | 2400       | 2400       | 2400       | 2400       | 2400       | 2400       | 2400       | 2400       | 2400        | 2400        | 2400        | 2400        | 2400        | 2400        | 2400        | 2400        | 2400        |
| 70000               | 2600       | 2600       | 2600       | 2600       | 2600       | 2600       | 2600       | 2600       | 2600        | 2600        | 2600        | 2600        | 2600        | 2600        | 2600        | 2600        | 2600        |
| OVERALL CALCULATED  | 63.3       | 69.8       | 73.9       | 77.7       | 78.4       | 80.0       | 79.7       | 78.0       | 74.6        | 67.7        | 60.0        |             |             |             |             |             |             |
| PHOB                | 76.3       | 83.2       | 88.1       | 91.8       | 91.7       | 94.0       | 93.7       | 93.2       | 88.6        | 81.2        | 72.5        |             |             |             |             |             |             |



| FREQ.              | (100) | (110) | (120) | (130) | (140) | (150) | (160) | (170) | (180) | (190) | (200) | (210) | (220) | (230) | (240) | (250) | (260) | (270) | (280) | (290) | (300) |  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 50                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 63                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 80                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 100                | 45.2  | 50.3  | 52.4  | 53.5  | 53.7  | 54.2  | 54.2  | 53.1  | 54.8  | 57.3  | 57.2  | 56.9  | 56.2  |       |       |       |       |       |       |       |       |  |
| 125                | 50.4  | 54.7  | 56.1  | 56.4  | 57.0  | 56.8  | 56.4  | 56.5  | 57.2  | 56.9  | 56.2  | 56.7  | 56.7  |       |       |       |       |       |       |       |       |  |
| 160                | 49.8  | 53.1  | 54.3  | 54.4  | 55.0  | 55.3  | 57.3  | 57.7  | 56.1  | 54.3  | 56.7  | 56.1  | 56.7  |       |       |       |       |       |       |       |       |  |
| 200                | 47.7  | 51.3  | 53.2  | 53.5  | 54.4  | 54.9  | 56.7  | 56.5  | 56.5  | 56.5  | 56.6  | 56.6  | 56.6  |       |       |       |       |       |       |       |       |  |
| 250                | 52.2  | 54.9  | 57.1  | 57.3  | 57.3  | 57.9  | 59.9  | 60.1  | 59.7  | 59.6  | 59.6  | 59.6  | 59.6  |       |       |       |       |       |       |       |       |  |
| 315                | 53.3  | 56.6  | 58.3  | 58.4  | 59.7  | 59.8  | 60.8  | 60.8  | 59.8  | 59.9  | 59.9  | 59.9  | 59.9  |       |       |       |       |       |       |       |       |  |
| 400                | 57.4  | 54.5  | 55.4  | 57.1  | 57.1  | 58.5  | 58.9  | 59.6  | 58.8  | 58.8  | 58.8  | 58.8  | 58.8  |       |       |       |       |       |       |       |       |  |
| 500                | 58.4  | 57.4  | 54.5  | 55.7  | 57.1  | 58.4  | 58.6  | 58.6  | 58.6  | 57.7  | 56.4  | 51.9  |       |       |       |       |       |       |       |       |       |  |
| 630                | 51.5  | 54.3  | 55.7  | 56.9  | 59.7  | 61.0  | 61.2  | 61.2  | 60.3  | 57.2  | 51.4  |       |       |       |       |       |       |       |       |       |       |  |
| 800                | 52.9  | 55.7  | 57.1  | 58.5  | 59.4  | 60.7  | 61.3  | 61.3  | 59.6  | 56.4  | 51.3  |       |       |       |       |       |       |       |       |       |       |  |
| 1000               | 51.5  | 54.8  | 57.7  | 58.9  | 59.2  | 61.3  | 61.9  | 61.7  | 60.4  | 54.9  | 49.2  |       |       |       |       |       |       |       |       |       |       |  |
| 1250               | 52.6  | 56.7  | 58.3  | 60.6  | 62.1  | 63.7  | 64.3  | 63.5  | 61.7  | 54.9  | 48.5  |       |       |       |       |       |       |       |       |       |       |  |
| 1600               | 51.9  | 59.3  | 61.9  | 64.3  | 65.9  | 67.5  | 67.8  | 66.8  | 64.9  | 55.8  | 48.5  |       |       |       |       |       |       |       |       |       |       |  |
| 2000               | 61.2  | 66.1  | 71.3  | 73.3  | 74.1  | 75.3  | 75.3  | 73.9  | 69.9  | 63.3  | 53.2  |       |       |       |       |       |       |       |       |       |       |  |
| 2500               | 55.7  | 61.6  | 65.3  | 68.3  | 70.4  | 71.2  | 71.4  | 69.5  | 65.4  | 57.4  | 48.9  |       |       |       |       |       |       |       |       |       |       |  |
| 3150               | 55.4  | 62.1  | 65.3  | 71.4  | 71.2  | 72.7  | 71.5  | 71.4  | 67.2  | 59.1  | 49.3  |       |       |       |       |       |       |       |       |       |       |  |
| 4000               | 51.9  | 65.4  | 69.3  | 74.7  | 74.0  | 75.2  | 75.7  | 77.8  | 75.8  | 64.5  | 56.8  |       |       |       |       |       |       |       |       |       |       |  |
| 5000               | 68.3  | 67.6  | 72.3  | 73.4  | 73.7  | 73.9  | 73.7  | 74.7  | 67.9  | 59.5  | 48.8  |       |       |       |       |       |       |       |       |       |       |  |
| 6300               | 65.5  | 73.5  | 74.4  | 74.6  | 78.1  | 75.1  | 75.6  | 79.8  | 71.3  | 62.8  | 50.3  |       |       |       |       |       |       |       |       |       |       |  |
| 8000               | 53.3  | 61.1  | 66.9  | 69.5  | 72.2  | 72.1  | 72.9  | 71.6  | 64.5  | 55.3  | 43.6  |       |       |       |       |       |       |       |       |       |       |  |
| 10000              | 50.8  | 66.1  | 64.6  | 67.3  | 69.8  | 71.1  | 73.0  | 66.2  | 62.5  | 53.9  | 39.1  |       |       |       |       |       |       |       |       |       |       |  |
| 12500              | 47.9  | 55.6  | 62.5  | 67.3  | 67.3  | 68.7  | 68.6  | 66.4  | 58.5  | 47.7  | 32.2  |       |       |       |       |       |       |       |       |       |       |  |
| 16000              | 43.4  | 60.7  | 53.1  | 57.3  | 60.3  | 61.8  | 61.5  | 59.3  | 51.2  | 34.3  | 19.2  |       |       |       |       |       |       |       |       |       |       |  |
| 20000              | 33.4  | 42.6  | 48.2  | 52.6  | 54.1  | 56.2  | 56.3  | 53.8  | 44.5  | 28.3  | 4.8   |       |       |       |       |       |       |       |       |       |       |  |
| 25000              | 23.9  | 33.5  | 39.4  | 44.4  | 46.5  | 47.7  | 47.2  | 44.3  | 33.4  | 16.7  |       |       |       |       |       |       |       |       |       |       |       |  |
| 31500              | 11.5  | 22.1  | 28.5  | 33.5  | 35.8  | 36.1  | 34.3  | 29.2  | 16.3  |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 40000              |       | 2.5   | 9.6   | 15.3  | 18.8  | 17.9  | 13.9  | 6.3   |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 50000              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 63000              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 80000              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| OVERALL CALCULATED | 73.2  | 76.7  | 81.1  | 83.6  | 83.2  | 83.2  | 83.5  | 84.3  | 79.7  | 72.3  | 66.7  |       |       |       |       |       |       |       |       |       |       |  |
| PHCN               | 84.1  | 85.8  | 85.8  | 86.5  | 86.6  | 86.5  | 86.9  | 87.8  | 84.8  | 86.1  | 78.1  |       |       |       |       |       |       |       |       |       |       |  |

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210

MODEL SOUND PRESSURE LEVELS 100. DEG. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIAN)

| PARAMETER           | ANGLE  |        |        |        |        |        |        |        |        |        |        |       |      |      | PHL  |      |      |       |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|------|------|------|-------|
|                     | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.    | 0.   | 0.   |      | 0.   | 0.   | 0.    |
| FREQ.               | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | 10.   | 110. | 110. | 110. | 110. | 110. |       |
| RADIAL 17. FT.      | 100    | 63.5   | 64.5   | 69.7   | 75.7   | 79.0   | 81.3   | 73.2   | 66.7   | 71.2   | 74.9   | 77.6  |      |      |      |      |      | 110.6 |
| VEHICLE ( 5. N)     | 125    | 68.5   | 63.5   | 66.4   | 67.9   | 73.5   | 69.5   | 68.4   | 71.2   | 73.7   | 73.6   | 75.0  |      |      |      |      |      | 109.3 |
| CONFIG R-55         | 100    | 64.7   | 60.0   | 61.9   | 66.4   | 67.5   | 66.3   | 69.9   | 71.4   | 72.9   | 76.4   | 76.1  |      |      |      |      |      | 107.3 |
| LOC SCHEMECTADY     | 200    | 64.2   | 60.2   | 62.7   | 67.7   | 69.5   | 68.0   | 72.2   | 73.9   | 75.4   | 77.9   | 78.3  |      |      |      |      |      | 100.3 |
| DATE 1/9/79         | 250    | 66.4   | 62.7   | 64.9   | 69.9   | 71.3   | 66.5   | 73.2   | 73.4   | 74.2   | 75.4   | 76.1  |      |      |      |      |      | 109.1 |
| RUN 46/1            | 315    | 66.7   | 64.5   | 65.7   | 71.4   | 72.5   | 66.0   | 73.2   | 74.2   | 74.9   | 75.7   | 76.1  |      |      |      |      |      | 110.6 |
| TAPE                | 400    | 66.7   | 63.2   | 64.4   | 70.8   | 71.8   | 66.0   | 72.9   | 74.7   | 75.4   | 75.7   | 74.0  |      |      |      |      |      | 109.6 |
| BAR 29.7 MC         | 500    | 65.5   | 61.5   | 63.4   | 69.5   | 71.6   | 62.3   | 73.9   | 74.2   | 74.2   | 75.2   | 74.3  |      |      |      |      |      | 100.4 |
| (00220. N/M2)       | 630    | 67.5   | 63.0   | 65.7   | 72.8   | 74.0   | 67.1   | 76.9   | 77.2   | 77.7   | 77.7   | 74.3  |      |      |      |      |      | 111.0 |
| TANK 51. DEG F      | 800    | 66.4   | 65.3   | 67.4   | 73.5   | 74.0   | 67.3   | 77.2   | 78.7   | 78.7   | 77.4   | 74.3  |      |      |      |      |      | 112.1 |
| (204. DEG K)        | 1000   | 68.0   | 65.5   | 67.7   | 73.5   | 74.0   | 71.0   | 77.9   | 79.9   | 80.9   | 78.9   | 73.0  |      |      |      |      |      | 112.0 |
| TWET 47. DEG F      | 1250   | 74.0   | 91.5   | 63.7   | 61.5   | 64.1   | 71.1   | 80.2   | 80.7   | 80.7   | 85.7   | 80.0  |      |      |      |      |      | 120.3 |
| (201. DEG K)        | 1600   | 72.0   | 91.3   | 63.4   | 61.3   | 63.1   | 71.4   | 80.0   | 80.9   | 80.9   | 83.0   | 77.0  |      |      |      |      |      | 119.1 |
| WACT 7.20 CM/M3     | 2000   | 72.3   | 90.0   | 62.7   | 60.6   | 62.0   | 69.0   | 85.4   | 85.4   | 85.4   | 81.0   | 76.1  |      |      |      |      |      | 110.1 |
| (.00720 KG/M3)      | 2500   | 66.1   | 99.0   | 69.9   | 66.4   | 66.2   | 70.0   | 90.4   | 92.0   | 92.4   | 86.0   | 80.1  |      |      |      |      |      | 120.1 |
| NPA 5000. RPM       | 3150   | 76.5   | 96.3   | 67.6   | 65.4   | 66.4   | 75.0   | 89.0   | 91.1   | 91.2   | 85.2   | 82.0  |      |      |      |      |      | 123.7 |
| ( 576. RAD/SEC)     | 4000   | 74.0   | 94.3   | 68.3   | 66.0   | 67.1   | 66.0   | 95.0   | 92.2   | 92.0   | 89.7   | 88.7  |      |      |      |      |      | 125.7 |
| NPA 3540. RPM       | 5000   | 73.9   | 93.7   | 66.7   | 65.1   | 66.0   | 74.7   | 91.2   | 91.2   | 90.0   | 84.9   | 79.0  |      |      |      |      |      | 122.0 |
| ( 501. RAD/SEC)     | 6300   | 73.0   | 93.2   | 65.4   | 64.7   | 66.9   | 74.7   | 90.2   | 90.7   | 90.0   | 85.1   | 79.5  |      |      |      |      |      | 122.5 |
| NPA 8023. RPM       | 8000   | 70.3   | 90.4   | 63.9   | 63.1   | 64.0   | 72.3   | 87.4   | 89.2   | 88.9   | 82.0   | 77.0  |      |      |      |      |      | 120.0 |
| ( 926. RAD/SEC)     | 10000  | 68.0   | 88.9   | 62.9   | 61.9   | 63.0   | 72.4   | 87.2   | 88.0   | 88.7   | 83.0   | 77.0  |      |      |      |      |      | 119.0 |
| NO. OF BLADES 18    | 12500  | 67.0   | 86.0   | 61.0   | 79.2   | 82.0   | 72.3   | 86.5   | 87.7   | 86.9   | 80.0   | 73.4  |      |      |      |      |      | 116.2 |
| PAN TIP SPEED 10000 | 20000  | 64.2   | 83.2   | 57.3   | 74.0   | 76.4   | 66.4   | 83.3   | 85.8   | 84.4   | 76.0   | 72.0  |      |      |      |      |      | 115.0 |
| 401. FT/SEC         | 25000  | 62.0   | 81.0   | 56.5   | 73.7   | 76.7   | 67.0   | 81.7   | 84.6   | 83.1   | 77.7   | 71.4  |      |      |      |      |      | 114.7 |
| 31500               | 31500  | 61.1   | 81.1   | 55.0   | 71.7   | 74.3   | 65.0   | 79.1   | 81.4   | 80.7   | 74.0   | 69.2  |      |      |      |      |      | 113.1 |
| 40000               | 40000  | 59.0   | 80.4   | 56.0   | 69.9   | 73.3   | 66.3   | 77.1   | 80.7   | 79.6   | 73.4   | 67.3  |      |      |      |      |      | 112.0 |
| 50000               | 50000  | 59.7   | 79.9   | 56.5   | 68.0   | 70.0   | 65.3   | 74.9   | 78.3   | 76.0   | 71.0   | 65.1  |      |      |      |      |      | 112.5 |
| 63000               | 63000  | 61.1   | 82.3   | 58.0   | 64.7   | 69.5   | 66.2   | 73.5   | 76.2   | 74.0   | 70.4   | 66.7  |      |      |      |      |      | 114.5 |
| 80000               | 80000  | 62.5   | 82.0   | 60.4   | 62.7   | 69.0   | 70.0   | 78.3   | 73.0   | 69.0   | 70.4   | 67.4  |      |      |      |      |      | 117.2 |
| 90000               | 90000  | 65.2   | 84.0   | 62.0   | 63.1   | 70.5   | 72.0   | 72.1   | 72.1   | 70.0   | 71.0   | 70.4  |      |      |      |      |      | 122.7 |
| OVERALL MEASURED    |        |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
| OVERALL CALCULATED  |        | 66.1   | 100.1  | 77.2   | 95.4   | 90.0   | 86.7   | 100.0  | 100.9  | 100.0  | 90.3   | 92.0  |      |      |      |      |      | 122.0 |
| PH00                |        | 100.1  | 119.2  | 90.4   | 109.7  | 112.0  | 100.0  | 114.0  | 113.7  | 113.9  | 110.4  | 100.0 |      |      |      |      |      |       |

|                           |       | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.     | 0.     | 0.     | 0.     | 0.     |
|---------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                           | FREQ  | (1.32) | (1.19) | (1.10) | (1.03) | (1.00) | (1.00) | (1.00) | (1.00) | (1.00) | (1.00) | (1.00) | (1.00) | (1.00) | (1.00) | (1.00) | (1.00) |
| SIDELINE 200. FT.         | 50    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ( 60.00 ")                | 60    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE 4055              | 100   | 40.4   | 42.3   | 37.0   | 34.1   | 33.4   | 37.2   | 38.5   | 44.9   | 45.0   | 47.3   | 44.2   |        |        |        |        |        |
| CONFIG 3031               | 120   | 48.3   | 41.2   | 34.0   | 40.3   | 31.0   | 37.0   | 45.7   | 47.3   | 44.2   | 45.0   | 44.0   |        |        |        |        |        |
| LOC SCHEMECTADY           | 160   | 41.5   | 50.3   | 30.0   | 44.7   | 45.7   | 37.1   | 47.1   | 47.4   | 47.3   | 47.5   | 44.2   |        |        |        |        |        |
| DATE 1/9/75               | 200   | 40.9   | 37.0   | 36.7   | 49.9   | 47.0   | 37.5   | 49.2   | 49.0   | 49.7   | 49.0   | 40.2   |        |        |        |        |        |
| RUN 40/1                  | 250   | 43.0   | 40.2   | 32.0   | 49.0   | 49.3   | 37.2   | 50.1   | 49.2   | 46.3   | 47.1   | 43.7   |        |        |        |        |        |
| TAPE                      | 315   | 45.2   | 41.0   | 33.5   | 49.5   | 50.5   | 37.6   | 50.0   | 49.9   | 49.0   | 47.2   | 43.5   |        |        |        |        |        |
| BAR 20.7 MG               | 400   | 43.1   | 40.5   | 32.2   | 40.4   | 49.4   | 37.3   | 49.7   | 50.3   | 49.3   | 47.1   | 41.7   |        |        |        |        |        |
| ( 60220. N/2)             | 500   | 41.8   | 56.0   | 31.1   | 47.3   | 49.3   | 37.7   | 50.0   | 49.7   | 47.9   | 46.4   | 40.2   |        |        |        |        |        |
| TARE 51. DEG F            | 630   | 43.7   | 40.0   | 33.2   | 30.2   | 32.2   | 40.3   | 33.5   | 32.5   | 31.3   | 40.7   | 40.9   |        |        |        |        |        |
| ( 204. DEG K)             | 800   | 44.1   | 42.2   | 34.9   | 31.1   | 32.4   | 40.5   | 33.0   | 33.9   | 32.1   | 40.2   | 40.5   |        |        |        |        |        |
| TARE 47. DEG F            | 1000  | 43.9   | 42.3   | 35.0   | 31.0   | 32.0   | 40.0   | 34.2   | 35.0   | 34.2   | 49.4   | 39.7   |        |        |        |        |        |
| ( 201. DEG K)             | 1250  | 50.3   | 40.2   | 40.9   | 50.9   | 41.4   | 40.0   | 44.3   | 43.5   | 41.7   | 55.9   | 40.3   |        |        |        |        |        |
| MACT 7.20 GM/M3           | 1600  | 40.3   | 47.7   | 40.4   | 38.5   | 40.3   | 40.1   | 42.0   | 41.0   | 39.7   | 52.9   | 42.0   |        |        |        |        |        |
| ( 1.00720 KG/M3)          | 2000  | 47.0   | 46.0   | 39.5   | 37.0   | 39.0   | 40.1   | 41.1   | 39.0   | 37.0   | 51.0   | 40.0   |        |        |        |        |        |
| NFA 3500. RPM             | 2500  | 55.2   | 75.0   | 40.5   | 43.2   | 40.9   | 34.0   | 43.9   | 40.0   | 44.7   | 55.2   | 48.9   |        |        |        |        |        |
| ( 370. RAD/SEC)           | 3150  | 51.3   | 72.1   | 44.0   | 42.0   | 44.9   | 31.0   | 43.0   | 44.9   | 43.0   | 53.0   | 48.0   |        |        |        |        |        |
| NFA 5540. RPM             | 4000  | 52.2   | 71.0   | 44.2   | 40.0   | 40.2   | 30.5   | 49.7   | 43.3   | 43.7   | 57.5   | 47.0   |        |        |        |        |        |
| ( 501. RAD/SEC)           | 5000  | 47.9   | 48.0   | 42.4   | 41.0   | 42.4   | 50.0   | 43.4   | 44.1   | 41.0   | 52.2   | 41.0   |        |        |        |        |        |
| NFA 8023. RPM             | 6300  | 40.1   | 47.5   | 40.4   | 39.9   | 44.1   | 49.0   | 43.0   | 42.0   | 40.5   | 50.9   | 30.4   |        |        |        |        |        |
| ( 924. RAD/SEC)           | 8000  | 42.2   | 43.5   | 37.0   | 37.3   | 34.0   | 43.0   | 39.0   | 39.0   | 36.0   | 40.4   | 33.3   |        |        |        |        |        |
| NO. OF BLADES IS 12500    | 10000 | 30.9   | 40.4   | 35.2   | 33.0   | 34.1   | 44.3   | 37.0   | 37.4   | 34.4   | 44.2   | 20.7   |        |        |        |        |        |
| FAN TIP SPEED 401. FT/SEC | 12500 | 34.4   | 40.0   | 31.0   | 49.0   | 33.1   | 40.0   | 34.7   | 33.0   | 49.1   | 30.0   | 20.1   |        |        |        |        |        |
| 25000                     | 16000 | 27.4   | 40.0   | 23.7   | 41.0   | 42.1   | 35.2   | 47.4   | 40.2   | 41.0   | 27.4   | 0.7    |        |        |        |        |        |
| 31500                     | 20000 | 20.1   | 41.0   | 18.0   | 39.0   | 34.0   | 20.3   | 40.3   | 39.0   | 32.3   | 17.0   |        |        |        |        |        |        |
| 40000                     | 25000 | 10.0   | 33.4   | 10.4   | 27.0   | 29.3   | 10.2   | 30.0   | 27.0   | 19.4   | 0.2    |        |        |        |        |        |        |
| 50000                     | 31500 |        | 22.3   | 0.0    | 10.3   | 10.3   | 0.4    | 10.0   | 10.0   | 2.0    |        |        |        |        |        |        |        |
| 63000                     | 40000 |        | 5.0    |        |        | 0.0    |        |        |        |        |        |        |        |        |        |        |        |
| 80000                     | 50000 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED        | 60.0  | 60.7   | 52.9   | 71.4   | 74.0   | 61.0   | 75.0   | 73.0   | 71.7   | 64.0   | 67.0   |        |        |        |        |        |        |
| FROM                      | 74.0  | 55.1   | 40.4   | 40.0   | 46.2   | 70.2   | 69.0   | 67.2   | 65.3   | 70.0   | 69.0   |        |        |        |        |        |        |

|                    |                 | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 135.   | 146.   | 159.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   | PWL  |       |
|--------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|-------|
|                    |                 | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | 10.  | 110. | 110. | 110. | 110. | 110. | 110. |       |
|                    |                 | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 135    | 146    | 159    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |       |
| RADIAL             | 17. FT.         |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |       |
|                    | ( S. N)         | 100    | 71.0   | 68.0   | 60.2   | 74.1   | 76.0   | 60.3   | 73.4   | 71.0   | 73.9   | 70.7   | 66.0 |      |      |      |      |      |      | 113.0 |
| VEHICLE            | N-55            | 125    | 71.0   | 64.0   | 60.2   | 71.1   | 74.0   | 60.0   | 71.9   | 73.9   | 75.9   | 77.9   | 60.0 |      |      |      |      |      |      | 111.2 |
| CONFIG             | M/3             | 100    | 69.0   | 64.0   | 60.2   | 70.1   | 70.0   | 50.3   | 73.2   | 74.9   | 76.9   | 79.7   | 60.1 |      |      |      |      |      |      | 110.0 |
| LOC                | SCHEMECTADY     | 200    | 69.9   | 63.0   | 60.2   | 70.0   | 73.0   | 60.9   | 75.2   | 77.2   | 78.4   | 81.4   | 60.1 |      |      |      |      |      |      | 111.3 |
| DATE               | 1/9/75          | 250    | 70.5   | 66.2   | 60.7   | 73.9   | 74.3   | 60.0   | 76.2   | 76.7   | 77.9   | 79.7   | 70.0 |      |      |      |      |      |      | 112.0 |
| RUN                | 40/2            | 315    | 72.0   | 68.2   | 60.2   | 70.1   | 76.0   | 60.8   | 76.7   | 77.9   | 78.4   | 79.7   | 79.0 |      |      |      |      |      |      | 114.2 |
| TAPE               |                 | 400    | 70.0   | 66.2   | 60.2   | 73.2   | 73.0   | 60.5   | 75.7   | 77.2   | 78.2   | 78.7   | 78.0 |      |      |      |      |      |      | 112.0 |
| BAR                | 20.7 HG         | 500    | 69.3   | 64.3   | 60.2   | 73.9   | 74.3   | 60.0   | 76.7   | 77.2   | 77.4   | 78.2   | 77.1 |      |      |      |      |      |      | 111.3 |
|                    | (10220. R/M2)   | 630    | 71.1   | 67.0   | 60.7   | 70.7   | 77.1   | 60.3   | 70.4   | 60.2   | 66.2   | 68.5   | 77.0 |      |      |      |      |      |      | 114.0 |
| TAND               | 50. DEG F       | 600    | 72.1   | 67.5   | 62.7   | 70.7   | 77.3   | 60.6   | 70.4   | 61.4   | 61.2   | 70.7   | 77.0 |      |      |      |      |      |      | 114.0 |
|                    | (263. DEG K)    | 1000   | 71.0   | 66.6   | 61.4   | 70.7   | 77.1   | 60.3   | 60.4   | 61.9   | 62.9   | 60.2   | 70.1 |      |      |      |      |      |      | 115.0 |
| TNET               | 47. DEG F       | 1200   | 73.0   | 69.3   | 62.9   | 79.5   | 81.4   | 60.1   | 64.7   | 65.4   | 65.9   | 61.2   | 77.0 |      |      |      |      |      |      | 117.0 |
|                    | (261. DEG K)    | 1800   | 61.4   | 60.0   | 70.2   | 69.0   | 60.0   | 70.0   | 62.1   | 63.9   | 62.7   | 69.0   | 61.1 |      |      |      |      |      |      | 120.1 |
| MACT               | 7.56 CM/R3      | 2000   | 76.1   | 64.1   | 66.4   | 64.8   | 66.4   | 70.0   | 60.9   | 60.9   | 67.9   | 63.0   | 70.0 |      |      |      |      |      |      | 121.0 |
|                    | (1.00756 CM/R3) | 2500   | 75.4   | 65.3   | 67.0   | 65.6   | 67.4   | 70.9   | 60.4   | 60.4   | 60.9   | 64.9   | 60.3 |      |      |      |      |      |      | 123.0 |
| MFA                | 6200. RPM       | 3150   | 70.4   | 67.0   | 71.0   | 60.3   | 62.7   | 60.3   | 60.3   | 64.3   | 60.4   | 69.7   | 60.0 |      |      |      |      |      |      | 127.7 |
|                    | ( 650. RAD/SEC) | 4000   | 77.5   | 66.5   | 69.0   | 60.0   | 61.1   | 70.0   | 63.7   | 63.5   | 62.1   | 66.9   | 62.7 |      |      |      |      |      |      | 120.4 |
| MFA                | 6344. RPM       | 5000   | 60.7   | 60.2   | 73.0   | 60.0   | 62.0   | 60.0   | 69.2   | 67.2   | 64.0   | 60.4   | 64.0 |      |      |      |      |      |      | 120.0 |
|                    | ( 644. RAD/SEC) | 6000   | 76.0   | 66.7   | 70.4   | 61.4   | 62.2   | 70.2   | 64.2   | 64.5   | 63.9   | 67.3   | 62.9 |      |      |      |      |      |      | 120.0 |
| MFB                | 6023. RPM       | 6000   | 74.0   | 64.9   | 60.1   | 60.1   | 60.3   | 70.3   | 61.7   | 63.7   | 62.1   | 60.2   | 61.0 |      |      |      |      |      |      | 124.3 |
|                    | ( 624. RAD/SEC) | 10000  | 75.0   | 64.2   | 60.9   | 60.0   | 60.4   | 70.6   | 62.9   | 64.1   | 62.4   | 67.2   | 60.9 |      |      |      |      |      |      | 124.5 |
| NO. OF BLADES      | 15              | 12500  | 72.5   | 60.6   | 60.4   | 64.3   | 67.2   | 70.7   | 63.7   | 61.9   | 69.0   | 64.3   | 70.0 |      |      |      |      |      |      | 122.1 |
| PAN TIP SPEED      | 10000           | 20000  | 69.0   | 67.2   | 63.7   | 60.7   | 63.9   | 70.1   | 67.0   | 60.0   | 67.4   | 61.0   | 70.3 |      |      |      |      |      |      | 119.4 |
|                    | 600. FT/SEC     | 20000  | 67.0   | 65.9   | 64.1   | 70.0   | 61.9   | 70.5   | 60.4   | 69.0   | 67.0   | 61.7   | 74.0 |      |      |      |      |      |      | 119.2 |
|                    |                 | 25000  | 65.9   | 63.2   | 64.0   | 77.3   | 70.5   | 70.0   | 63.5   | 67.1   | 64.0   | 70.2   | 72.4 |      |      |      |      |      |      | 117.0 |
|                    |                 | 31500  | 69.1   | 62.7   | 63.7   | 70.5   | 70.4   | 60.2   | 62.0   | 60.0   | 63.2   | 77.0   | 70.0 |      |      |      |      |      |      | 117.0 |
|                    |                 | 40000  | 64.0   | 61.2   | 64.1   | 72.9   | 73.4   | 60.4   | 70.0   | 64.2   | 60.1   | 70.1   | 60.7 |      |      |      |      |      |      | 116.4 |
|                    |                 | 50000  | 67.7   | 62.1   | 60.6   | 71.0   | 72.1   | 60.0   | 70.0   | 63.0   | 70.0   | 72.9   | 60.7 |      |      |      |      |      |      | 117.0 |
|                    |                 | 63000  | 60.0   | 62.0   | 60.6   | 70.4   | 69.9   | 70.9   | 72.5   | 60.0   | 70.0   | 71.4   | 67.0 |      |      |      |      |      |      | 116.7 |
|                    |                 | 60000  | 73.9   | 65.5   | 72.2   | 71.2   | 70.4   | 70.9   | 72.0   | 70.5   | 70.0   | 72.0   | 70.3 |      |      |      |      |      |      | 124.0 |
| OVERALL MEASURED   |                 |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |       |
| OVERALL CALCULATED |                 | 69.1   | 100.9  | 61.7   | 100.4  | 100.0  | 60.1   | 104.0  | 104.0  | 103.4  | 60.3   | 64.0   |      |      |      |      |      |      |      | 120.0 |
|                    | PW00            | 102.1  | 120.1  | 63.9   | 114.3  | 113.0  | 100.5  | 110.1  | 117.0  | 110.9  | 111.7  | 100.1  |      |      |      |      |      |      |      |       |

ORIGINAL PAGE IS OF POOR QUALITY

| PARAMETER          | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.  | 0.  | 0.  | 0.  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|
| PRG#               | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.05) | (2.22) | (2.40) | (2.57) | (2.74) | (0.  | (0. | (0. | (0. | (0. |
| SIDELINE 200. FT.  | 60     | 60     | 60     | 60     | 60     | 60     | 60     | 60     | 60     | 60     | 60     | 60   | 60  | 60  | 60  | 60  |
| ( 60.00 M)         | 100    | 48.0   | 65.0   | 38.4   | 52.0   | 54.0   | 37.2   | 50.7   | 40.1   | 40.0   | 51.0   | 49.0 |     |     |     |     |
| VEHICLE R-30       | 120    | 47.0   | 62.4   | 38.3   | 49.3   | 53.1   | 37.0   | 49.2   | 30.1   | 30.0   | 50.1   | 49.0 |     |     |     |     |
| CONFIG 023         | 140    | 45.0   | 61.0   | 38.3   | 48.0   | 49.0   | 37.3   | 50.3   | 30.0   | 31.3   | 51.7   | 48.2 |     |     |     |     |
| LDC SCHEMATIC      | 200    | 49.2   | 60.3   | 39.2   | 49.0   | 51.1   | 37.2   | 52.2   | 31.1   | 32.7   | 53.3   | 50.0 |     |     |     |     |
| DATE 1/9/78        | 290    | 47.1   | 63.7   | 38.0   | 52.0   | 52.3   | 37.7   | 53.1   | 32.3   | 32.1   | 51.4   | 47.0 |     |     |     |     |
| RUN 40/2           | 310    | 49.3   | 65.0   | 38.0   | 53.2   | 54.0   | 40.3   | 53.5   | 33.0   | 32.0   | 51.2   | 47.2 |     |     |     |     |
| TAPE               | 400    | 47.2   | 63.5   | 37.0   | 51.1   | 51.7   | 40.0   | 52.4   | 32.4   | 32.1   | 50.1   | 45.7 |     |     |     |     |
| BAR 29.7 HG        | 500    | 45.0   | 61.4   | 37.0   | 50.0   | 52.1   | 40.4   | 53.3   | 32.7   | 31.2   | 49.4   | 43.0 |     |     |     |     |
| (00220. R/M21      | 600    | 47.3   | 64.0   | 38.2   | 53.4   | 54.7   | 40.0   | 50.0   | 30.3   | 32.0   | 51.4   | 44.0 |     |     |     |     |
| TANK 30. DEG F     | 800    | 48.1   | 64.4   | 45.1   | 54.3   | 54.0   | 40.7   | 55.0   | 30.6   | 34.0   | 50.4   | 43.0 |     |     |     |     |
| (203. DEG F)       | 1000   | 47.5   | 64.0   | 38.7   | 54.2   | 54.9   | 40.3   | 50.7   | 37.0   | 36.2   | 50.7   | 41.0 |     |     |     |     |
| TANK 47. DEG F     | 1200   | 49.1   | 66.9   | 40.1   | 50.0   | 50.0   | 40.0   | 60.0   | 30.3   | 30.0   | 51.0   | 43.3 |     |     |     |     |
| (201. DEG F)       | 1400   | 56.0   | 75.2   | 47.2   | 60.2   | 67.0   | 50.3   | 60.1   | 40.0   | 39.0   | 50.0   | 40.0 |     |     |     |     |
| NACT 7-30 GM/M3    | 2000   | 51.4   | 70.3   | 43.2   | 61.0   | 63.3   | 40.1   | 64.0   | 33.3   | 30.4   | 52.3   | 43.2 |     |     |     |     |
| (.00750 AS/M3)     | 2500   | 50.9   | 71.4   | 44.3   | 62.0   | 64.2   | 40.2   | 65.0   | 34.0   | 33.1   | 53.7   | 44.2 |     |     |     |     |
| RPM 0200. RPM      | 3100   | 53.1   | 73.0   | 40.0   | 60.0   | 60.1   | 50.4   | 73.3   | 30.2   | 30.3   | 50.3   | 49.1 |     |     |     |     |
| ( 000. RAD/SEC)    | 4000   | 51.0   | 71.0   | 43.7   | 60.2   | 67.2   | 50.4   | 60.0   | 30.2   | 34.7   | 44.0   |      |     |     |     |     |
| RPM 0344. RPM      | 5000   | 54.7   | 73.3   | 40.4   | 71.0   | 68.4   | 50.3   | 73.4   | 30.1   | 34.0   | 45.7   | 45.7 |     |     |     |     |
| ( 000. RAD/SEC)    | 6300   | 49.0   | 70.0   | 43.3   | 60.0   | 67.3   | 50.0   | 67.0   | 30.3   | 33.2   | 51.4   |      |     |     |     |     |
| RPM 0033. RPM      | 8000   | 46.7   | 60.0   | 42.0   | 62.4   | 63.4   | 40.0   | 64.1   | 34.3   | 30.1   | 49.0   | 30.0 |     |     |     |     |
| ( 024. RAD/SEC)    | 10000  | 45.0   | 65.7   | 41.2   | 59.3   | 60.0   | 40.3   | 63.0   | 32.0   | 30.1   | 47.0   | 32.2 |     |     |     |     |
| NO. OF BLADES IS   | 12500  | 40.0   | 59.7   | 36.0   | 64.0   | 57.5   | 43.3   | 50.0   | 37.0   | 31.0   | 40.0   | 23.0 |     |     |     |     |
| FAN TIP SPEED      | 10000  | 32.1   | 52.4   | 30.1   | 67.0   | 50.3   | 40.0   | 51.0   | 30.1   | 44.0   | 30.0   | 10.2 |     |     |     |     |
| 300. FT/SEC        | 20000  | 28.1   | 45.5   | 28.7   | 40.0   | 43.0   | 30.2   | 45.0   | 44.5   | 30.2   | 31.0   |      |     |     |     |     |
|                    | 25000  | 15.3   | 30.4   | 10.0   | 32.0   | 34.0   | 20.0   | 34.0   | 33.3   | 23.3   | 4.0    |      |     |     |     |     |
|                    | 31500  | 2.0    | 24.7   | 0.1    | 20.0   | 23.4   | 10.3   | 21.0   | 20.1   | 6.4    |        |      |     |     |     |     |
|                    | 40000  |        | 7.2    |        | 3.5    | 3.5    |        | 2.1    |        |        |        |      |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| OVERALL CALCULATED |        | 63.0   | 62.3   | 60.3   | 70.2   | 70.4   | 63.0   | 70.1   | 70.7   | 74.0   | 60.0   | 59.2 |     |     |     |     |
| PRDS               |        | 70.5   | 65.0   | 60.7   | 60.0   | 60.1   | 70.0   | 63.2   | 60.3   | 60.0   | 60.3   | 71.1 |     |     |     |     |





|                        | FREQ. | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.     | 0.     | 0.     | 0.     | 0.     | 0.     |
|------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                        |       | (1.02) | (1.10) | (1.18) | (1.25) | (1.31) | (1.38) | (1.44) | (1.50) | (1.57) | (1.63) | (1.69) | (1.75) | (1.81) | (1.87) | (1.93) | (1.99) | (2.05) |
| SIDELINE 200. FT.      | 50    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ( 00.00 M)             | 60    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE 4-35           | 100   | 45.2   | 66.0   | 30.7   | 51.3   | 51.9   | 37.0   | 50.3   | 49.0   | 51.3   | 53.0   | 53.7   |        |        |        |        |        |        |
| CONFIG 037             | 120   | 52.4   | 71.0   | 42.0   | 50.7   | 57.0   | 47.2   | 52.0   | 53.0   | 53.7   | 53.0   | 52.7   |        |        |        |        |        |        |
| LOC SCHEMECTAST        | 160   | 46.0   | 65.3   | 30.3   | 52.4   | 53.2   | 37.0   | 53.0   | 53.0   | 50.1   | 50.2   | 52.7   |        |        |        |        |        |        |
| DATE 1/7/75            | 200   | 40.2   | 63.3   | 30.4   | 51.0   | 53.9   | 47.3   | 55.3   | 50.3   | 50.7   | 57.1   | 54.0   |        |        |        |        |        |        |
| RUN 40/3               | 250   | 50.0   | 60.0   | 39.1   | 50.5   | 53.0   | 47.0   | 50.0   | 50.2   | 50.1   | 50.0   | 52.0   |        |        |        |        |        |        |
| TAPE 40/3              | 310   | 52.0   | 60.0   | 40.0   | 50.0   | 50.7   | 47.1   | 57.0   | 50.0   | 50.2   | 50.5   | 51.0   |        |        |        |        |        |        |
| BAR 20.7 MG            | 400   | 50.2   | 60.0   | 37.0   | 50.1   | 50.0   | 47.0   | 50.2   | 50.0   | 50.1   | 50.1   | 49.0   |        |        |        |        |        |        |
| (00220. 4/M2)          | 500   | 49.1   | 64.4   | 30.3   | 53.3   | 54.0   | 47.2   | 50.3   | 55.7   | 53.2   | 53.4   | 49.2   |        |        |        |        |        |        |
| TAMP 51. DEG P         | 600   | 50.3   | 67.0   | 39.0   | 53.0   | 57.5   | 47.0   | 50.7   | 57.0   | 57.3   | 53.9   | 47.0   |        |        |        |        |        |        |
| (204. DEG K)           | 1000  | 51.4   | 67.4   | 40.1   | 57.3   | 57.0   | 47.2   | 50.1   | 59.1   | 57.1   | 53.7   | 40.0   |        |        |        |        |        |        |
| TWY 47. DEG P          | 1200  | 50.5   | 67.3   | 40.2   | 50.4   | 57.2   | 47.0   | 50.2   | 50.5   | 50.2   | 52.7   | 40.7   |        |        |        |        |        |        |
| (201. DEG K)           | 1400  | 51.1   | 60.0   | 41.4   | 50.0   | 60.4   | 47.0   | 62.0   | 61.5   | 59.7   | 52.4   | 40.0   |        |        |        |        |        |        |
| NACT 7.20 CM/MS        | 2000  | 50.7   | 74.7   | 47.7   | 60.0   | 70.0   | 52.1   | 70.0   | 60.1   | 60.0   | 50.0   | 40.0   |        |        |        |        |        |        |
| (.00720 CM/MS)         | 2500  | 57.2   | 70.0   | 40.7   | 60.0   | 70.0   | 57.0   | 72.1   | 60.3   | 60.7   | 57.2   | 40.7   |        |        |        |        |        |        |
| NFA 7001. RPM          | 3100  | 63.0   | 74.1   | 47.3   | 60.0   | 67.0   | 53.2   | 60.0   | 60.0   | 63.7   | 50.2   | 40.2   |        |        |        |        |        |        |
| ( 741. RAD/SEC)        | 4000  | 54.0   | 70.1   | 49.7   | 60.2   | 71.2   | 50.1   | 73.0   | 72.7   | 71.0   | 61.0   | 50.1   |        |        |        |        |        |        |
| NFA 7130. RPM          | 5000  | 50.6   | 70.0   | 50.7   | 60.2   | 71.7   | 57.1   | 74.0   | 73.5   | 71.2   | 62.0   | 49.0   |        |        |        |        |        |        |
| ( 747. RAD/SEC)        | 6300  | 62.0   | 82.3   | 57.0   | 70.2   | 71.2   | 61.0   | 74.0   | 70.0   | 60.0   | 47.0   | 51.0   |        |        |        |        |        |        |
| NFA 8023. RPM          | 8000  | 53.0   | 75.0   | 50.1   | 60.0   | 69.1   | 50.0   | 70.0   | 70.0   | 64.0   | 50.7   | 40.2   |        |        |        |        |        |        |
| ( 824. RAD/SEC)        | 10000 | 50.2   | 72.0   | 60.0   | 60.7   | 67.0   | 50.3   | 60.1   | 67.0   | 61.0   | 52.2   | 50.0   |        |        |        |        |        |        |
| NO. OF BLADES IS 12300 | 12300 | 40.0   | 60.0   | 49.2   | 60.0   | 60.4   | 52.3   | 60.0   | 65.4   | 69.0   | 69.4   | 50.2   |        |        |        |        |        |        |
| FAH TIP SPEED 10000    | 10000 | 43.3   | 60.2   | 39.5   | 50.1   | 61.0   | 50.3   | 64.7   | 62.1   | 64.1   | 43.1   | 50.0   |        |        |        |        |        |        |
| 010. FT/SEC            | 20000 | 30.2   | 57.4   | 32.7   | 51.3   | 54.3   | 40.2   | 50.4   | 54.4   | 40.0   | 33.0   | 10.0   |        |        |        |        |        |        |
|                        | 25000 | 20.0   | 50.0   | 20.2   | 40.2   | 40.3   | 40.0   | 40.0   | 40.0   | 39.1   | 24.3   |        |        |        |        |        |        |        |
|                        | 31000 | 10.0   | 41.3   | 17.7   | 37.0   | 39.3   | 30.2   | 39.7   | 30.0   | 20.0   | 0.0    |        |        |        |        |        |        |        |
|                        | 40000 | 0.0    | 29.0   | 0.2    | 20.0   | 27.0   | 20.0   | 22.2   | 0.0    |        |        |        |        |        |        |        |        |        |
|                        | 50000 |        | 10.0   |        | 0.0    | 0.0    | 7.3    |        |        |        |        |        |        |        |        |        |        |        |
|                        | 63000 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                        | 80000 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED     |       | 67.1   | 67.3   | 61.2   | 70.3   | 70.7   | 67.0   | 61.0   | 62.1   | 77.3   | 60.0   | 63.2   |        |        |        |        |        |        |
| PAGE                   |       | 81.0   | 101.0  | 70.0   | 93.7   | 93.1   | 60.7   | 90.0   | 90.0   | 91.0   | 63.0   | 76.0   |        |        |        |        |        |        |



MODEL SOUND PRESSURE LEVEL 100. 625. 7. 70 PERCENT DEL. MIN. MAX

ANGLES FROM INLET IN DEGREES (AND RADIAN)

| PARAM.             | 90.    | 60.    | 70.    | 60.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0. | 0. | 0. | 0. | 0. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|
|                    | (1.57) | (1.10) | (1.10) | (1.57) | (1.57) | (1.57) | (2.00) | (2.34) | (2.44) | (2.60) | (2.70) | 0.   | 0. | 0. | 0. | 0. | 0. |
| SIDELINE 200. FT.  | 100    | 46.0   | 64.3   | 61.2   | 52.3   | 52.9   | 36.7   | 53.2   | 52.4   | 55.1   | 57.0   | 57.2 |    |    |    |    |    |
| VEHICLE (00.00 M)  | 120    | 51.0   | 69.4   | 50.1   | 50.2   | 57.0   | 45.0   | 55.7   | 54.0   | 57.0   | 56.0   | 56.2 |    |    |    |    |    |
| CONFIG 0-37        | 100    | 50.0   | 67.0   | 53.0   | 54.7   | 54.7   | 45.1   | 54.0   | 57.2   | 56.0   | 56.0   | 56.0 |    |    |    |    |    |
| LOC SCHEMATIC      | 200    | 51.0   | 68.5   | 52.4   | 54.0   | 54.4   | 45.2   | 54.0   | 56.3   | 56.2   | 56.0   | 56.7 |    |    |    |    |    |
| DATE 1/9/73        | 200    | 53.0   | 69.7   | 50.0   | 57.7   | 56.0   | 45.4   | 54.0   | 57.7   | 56.0   | 56.0   | 56.0 |    |    |    |    |    |
| REP 40/4           | 310    | 55.3   | 71.3   | 55.0   | 50.0   | 50.7   | 45.1   | 55.0   | 56.0   | 56.2   | 56.0   | 56.7 |    |    |    |    |    |
| TAPE 000           | 000    | 53.0   | 69.0   | 50.2   | 50.0   | 57.4   | 45.0   | 54.0   | 56.0   | 56.0   | 57.1   | 56.0 |    |    |    |    |    |
| BAR 20.7 MC        | 000    | 51.0   | 67.4   | 53.0   | 50.0   | 57.1   | 45.4   | 54.0   | 56.7   | 56.7   | 56.0   | 56.0 |    |    |    |    |    |
| IGC220. M/M2       | 030    | 53.0   | 69.3   | 55.7   | 50.0   | 56.7   | 45.1   | 51.0   | 56.3   | 56.3   | 56.0   | 56.1 |    |    |    |    |    |
| TANG 50. DEG F     | 030    | 53.0   | 69.0   | 57.1   | 50.0   | 56.1   | 45.3   | 51.0   | 51.0   | 56.1   | 56.2   | 56.0 |    |    |    |    |    |
| 1203. DEG K        | 1000   | 52.7   | 70.3   | 57.2   | 50.0   | 56.5   | 45.1   | 51.7   | 51.7   | 56.4   | 54.0   | 56.4 |    |    |    |    |    |
| TWT 40. DEG F      | 1200   | 53.4   | 70.0   | 57.0   | 50.4   | 51.0   | 45.2   | 53.3   | 53.3   | 51.0   | 54.7   | 56.0 |    |    |    |    |    |
| 1201. DEG K        | 1000   | 55.2   | 73.5   | 60.0   | 64.0   | 65.3   | 55.3   | 60.3   | 65.3   | 62.7   | 56.0   | 47.3 |    |    |    |    |    |
| MACT 6.00 M/M2     | 2000   | 50.7   | 70.3   | 60.5   | 72.3   | 73.0   | 56.0   | 75.1   | 72.0   | 60.0   | 62.0   | 56.0 |    |    |    |    |    |
| 1.00000 40/M2      | 2000   | 50.7   | 77.4   | 60.3   | 60.7   | 70.7   | 56.0   | 71.0   | 69.3   | 64.0   | 57.4   | 47.0 |    |    |    |    |    |
| MFA 7043. MPH      | 3100   | 56.1   | 70.0   | 57.0   | 69.2   | 71.2   | 56.4   | 71.3   | 69.7   | 66.0   | 57.0   | 49.1 |    |    |    |    |    |
| 1 023. RAD/SEC     | 4000   | 56.3   | 66.0   | 60.0   | 73.7   | 70.4   | 56.7   | 70.7   | 70.0   | 73.0   | 64.2   | 56.0 |    |    |    |    |    |
| MFB 7032. MPH      | 0000   | 57.7   | 66.0   | 67.0   | 74.2   | 74.7   | 61.3   | 74.4   | 73.0   | 60.3   | 59.4   | 46.2 |    |    |    |    |    |
| 1 030. RAD/SEC     | 0300   | 56.7   | 64.0   | 71.4   | 61.0   | 62.1   | 61.0   | 70.0   | 61.0   | 69.7   | 62.0   | 51.2 |    |    |    |    |    |
| MFB 0023. MPH      | 0000   | 55.0   | 77.0   | 65.0   | 60.7   | 70.0   | 56.0   | 72.3   | 70.3   | 63.0   | 55.2   | 42.0 |    |    |    |    |    |
| 1 000. RAD/SEC     | 10000  | 54.5   | 73.2   | 63.0   | 60.0   | 60.0   | 56.0   | 70.0   | 60.0   | 62.1   | 52.4   | 37.7 |    |    |    |    |    |
| NO. OF BLADES 10   | 12000  | 48.5   | 70.7   | 59.3   | 64.1   | 67.1   | 57.0   | 60.2   | 64.3   | 67.4   | 47.0   | 39.0 |    |    |    |    |    |
| PAN TIP SPEED 1000 | 10000  | 48.2   | 63.2   | 52.5   | 57.1   | 59.0   | 46.7   | 60.0   | 56.7   | 49.3   | 37.4   | 17.2 |    |    |    |    |    |
| 000. FT/SEC        | 20000  | 33.5   | 50.0   | 40.3   | 50.0   | 52.0   | 45.0   | 54.0   | 51.0   | 42.3   | 27.3   | 1.0  |    |    |    |    |    |
|                    | 25000  | 23.2   | 40.0   | 30.7   | 42.0   | 43.0   | 40.0   | 40.0   | 41.0   | 30.7   | 12.2   |      |    |    |    |    |    |
|                    | 31500  | 10.1   | 34.0   | 20.0   | 31.1   | 32.3   | 30.4   | 31.4   | 20.0   | 13.2   |        |      |    |    |    |    |    |
|                    | 40000  |        | 15.4   | 6.7    | 12.5   | 13.7   | 11.7   | 11.0   | 3.0    |        |        |      |    |    |    |    |    |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
|                    | 60000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
|                    | 00000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
| OVERALL CALCULATED |        | 60.0   | 60.0   | 77.2   | 64.1   | 65.1   | 70.7   | 64.2   | 64.0   | 70.1   | 72.0   | 60.2 |    |    |    |    |    |
| PRED               |        | 62.0   | 60.5   | 60.7   | 60.0   | 60.0   | 60.0   | 57.4   | 60.3   | 59.0   | 60.0   | 77.4 |    |    |    |    |    |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PHUG. DATE = MONTH 3 DAY 11 NN. 14.8

MODEL SOUND PRESSURE LEVELS (90. DEG. F, 70 PERCENT HEL. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIAN)

| FREQ.              | ANGLES FROM INLET IN DEGREES (AND RADIAN) |        |        |        |        |        |        |        |        |        |        |       |    |    |    | PUL |       |       |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|----|----|----|-----|-------|-------|
|                    | 50.                                       | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.    | 0. | 0. | 0. |     | 0.    | 0.    |
|                    | (1.02)                                    | (1.17) | (1.30) | (1.53) | (1.71) | (1.90) | (2.09) | (2.24) | (2.42) | (2.60) | (2.79) | 0.    | 0. | 0. | 0. | 0.  | 0.    |       |
| 50                 |   |        |        |        |        |        |        |        |        |        |        |       |    |    |    |     |       |       |
| 63                 |   |        |        |        |        |        |        |        |        |        |        |       |    |    |    |     |       |       |
| 80                 |   |        |        |        |        |        |        |        |        |        |        |       |    |    |    |     |       |       |
| RADIAL 17. FT.     |   |        |        |        |        |        |        |        |        |        |        |       |    |    |    |     |       |       |
| ( 5. M)            | 100                                       | 89.5   | 87.0   | 72.9   | 74.1   | 74.5   | 65.8   | 79.7   | 70.2   | 79.7   | 84.9   | 88.1  |    |    |    |     | 116.0 |       |
| VEHICLE R-55       | 120                                       | 75.5   | 92.0   | 78.2   | 76.0   | 79.3   | 65.8   | 78.2   | 80.7   | 82.7   | 85.2   | 87.0  |    |    |    |     | 118.3 |       |
| CONFIG             | 180                                       | 75.0   | 90.5   | 74.9   | 70.0   | 77.0   | 62.8   | 79.4   | 81.2   | 84.2   | 86.4   | 88.3  |    |    |    |     | 117.0 |       |
| LOC SCHENECTADY    | 200                                       | 74.0   | 88.7   | 74.4   | 70.4   | 78.5   | 64.3   | 81.2   | 83.4   | 84.9   | 86.2   | 88.1  |    |    |    |     | 117.5 |       |
| DATE 1/9/78        | 250                                       | 77.0   | 92.2   | 78.7   | 80.4   | 81.0   | 67.5   | 83.7   | 84.4   | 85.9   | 87.9   | 88.3  |    |    |    |     | 119.0 |       |
| NUM 46/5           | 315                                       | 79.0   | 94.0   | 78.9   | 80.6   | 81.3   | 67.6   | 82.7   | 84.2   | 85.2   | 87.2   | 87.3  |    |    |    |     | 120.3 |       |
| TAPE               | 400                                       | 77.0   | 92.0   | 77.7   | 78.4   | 79.8   | 67.3   | 82.2   | 83.4   | 84.7   | 86.2   | 86.1  |    |    |    |     | 119.7 |       |
| BAR 20.7 MG        | 500                                       | 75.0   | 90.5   | 75.7   | 78.2   | 79.3   | 67.8   | 82.4   | 82.8   | 84.2   | 84.9   | 86.1  |    |    |    |     | 117.6 |       |
| (00220. N/M2)      | 630                                       | 76.0   | 92.0   | 78.4   | 80.9   | 82.1   | 67.8   | 84.7   | 84.9   | 86.2   | 86.0   | 88.1  |    |    |    |     | 119.3 |       |
| TAMP 50. DEG F     | 800                                       | 77.6   | 93.3   | 79.4   | 82.2   | 82.6   | 67.1   | 84.9   | 86.4   | 88.2   | 88.4   | 84.3  |    |    |    |     | 120.1 |       |
| (203. DEG K)       | 1000                                      | 77.4   | 93.2   | 79.9   | 81.4   | 82.3   | 67.1   | 85.2   | 86.4   | 88.9   | 84.2   | 82.0  |    |    |    |     | 120.4 |       |
| THEY 46. DEG F     | 1250                                      | 77.9   | 94.3   | 81.7   | 82.8   | 84.6   | 77.6   | 87.7   | 88.2   | 88.2   | 84.5   | 84.1  |    |    |    |     | 121.4 |       |
| (201. DEG K)       | 1600                                      | 79.4   | 97.3   | 84.2   | 87.0   | 88.9   | 77.8   | 90.8   | 90.7   | 90.2   | 85.5   | 82.1  |    |    |    |     | 120.3 |       |
| NACT 6.96 GM/M3    | 2000                                      | 85.4   | 103.3  | 91.7   | 95.0   | 96.9   | 87.4   | 99.8   | 98.8   | 98.4   | 92.2   | 88.0  |    |    |    |     | 131.0 |       |
| (.00090 KG/M3)     | 2500                                      | 82.1   | 101.3  | 88.7   | 92.3   | 93.7   | 77.4   | 98.1   | 95.4   | 92.7   | 88.0   | 84.0  |    |    |    |     | 126.0 |       |
| NFA 7650. RPM      | 3150                                      | 81.4   | 101.3  | 88.6   | 92.8   | 94.9   | 87.8   | 95.6   | 96.1   | 94.7   | 89.0   | 85.0  |    |    |    |     | 129.0 |       |
| ( 623. RAD/SEC)    | 4000                                      | 85.8   | 105.5  | 93.0   | 96.5   | 100.1  | 87.0   | 101.5  | 104.2  | 102.1  | 96.0   | 94.0  |    |    |    |     | 134.0 |       |
| NFR 7927. RPM      | 5000                                      | 83.7   | 104.9  | 92.2   | 96.8   | 99.1   | 87.2   | 100.2  | 100.9  | 98.8   | 92.1   | 88.9  |    |    |    |     | 132.0 |       |
| ( 630. RAD/SEC)    | 6300                                      | 86.0   | 110.3  | 96.4   | 100.9  | 107.2  | 87.7   | 104.9  | 109.7  | 100.8  | 97.1   | 93.0  |    |    |    |     | 135.0 |       |
| NFB 8023. RPM      | 8000                                      | 82.9   | 104.2  | 91.9   | 94.1   | 94.4   | 87.9   | 100.4  | 100.7  | 96.4   | 91.8   | 88.0  |    |    |    |     | 132.3 |       |
| ( 924. RAD/SEC)    | 10000                                     | 81.1   | 102.2  | 90.9   | 94.4   | 96.1   | 87.2   | 99.9   | 99.7   | 98.7   | 91.8   | 86.7  |    |    |    |     | 131.4 |       |
| NO. OF BLADES IS   | 12500                                     | 81.0   | 101.9  | 89.5   | 93.4   | 96.0   | 87.3   | 100.0  | 100.7  | 95.2   | 91.4   | 85.7  |    |    |    |     | 131.0 |       |
| FAN TIP SPEED      | 16000                                     | 77.6   | 96.0   | 86.3   | 90.3   | 93.5   | 77.5   | 96.8   | 97.0   | 93.2   | 88.7   | 83.2  |    |    |    |     | 120.7 |       |
| 880. FT/SEC        | 20000                                     | 75.8   | 96.1   | 84.7   | 88.4   | 91.5   | 77.6   | 95.5   | 96.0   | 92.6   | 88.0   | 81.0  |    |    |    |     | 127.7 |       |
|                    | 25000                                     | 74.0   | 94.1   | 82.1   | 86.4   | 89.1   | 77.9   | 94.2   | 95.2   | 94.3   | 87.0   | 80.7  |    |    |    |     | 126.7 |       |
|                    | 31500                                     | 72.5   | 92.4   | 80.6   | 85.2   | 87.3   | 77.1   | 91.9   | 93.6   | 90.1   | 86.0   | 77.4  |    |    |    |     | 125.0 |       |
|                    | 40000                                     | 78.0   | 89.4   | 77.1   | 82.1   | 84.1   | 78.9   | 89.0   | 90.1   | 80.8   | 84.3   | 73.4  |    |    |    |     | 124.1 |       |
|                    | 50000                                     | 70.0   | 86.0   | 74.1   | 78.2   | 80.0   | 82.0   | 85.8   | 85.2   | 82.9   | 81.0   | 70.0  |    |    |    |     | 123.1 |       |
|                    | 63000                                     | 70.5   | 84.2   | 84.6   | 73.0   | 74.0   | 87.0   | 80.0   | 79.3   | 78.8   | 76.0   | 68.3  |    |    |    |     | 123.0 |       |
|                    | 80000                                     | 74.1   | 86.7   | 87.9   | 71.9   | 72.3   | 85.0   | 78.0   | 75.8   | 72.0   | 74.2   | 71.0  |    |    |    |     | 120.9 |       |
| OVERALL MEASURED   |   |        |        |        |        |        |        |        |        |        |        |       |    |    |    |     |       |       |
| OVERALL CALCULATED |   | 84.7   | 115.0  | 102.3  | 106.9  | 110.0  | 96.1   | 110.0  | 113.1  | 106.2  | 104.3  | 101.0 |    |    |    |     |       | 144.8 |
| PHUG               |   | 108.0  | 120.6  | 115.2  | 122.4  | 123.3  | 110.1  | 123.0  | 126.0  | 121.0  | 117.0  | 115.1 |    |    |    |     |       |       |

MODEL SOUND PRESSURE LEVELS (50, 60, 70 PERCENT REL. HUM., 64°F)

ANGLES FROM INLET IN DEGREES (AND RADIAN)

| PARAMETER          | FREQ. | ANGLE  |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---|---|---|---|---|
|                    |       | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0 | 0 | 0 | 0 | 0 | 0 |
|                    |       | (1.02) | (1.10) | (1.10) | (1.53) | (1.71) | (1.68) | (2.00) | (2.24) | (2.42) | (2.60) | (2.70) | 0 | 0 | 0 | 0 | 0 | 0 |
| SIDELINE 200. FT.  | 50    |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
| ( 60.00 M)         | 60    |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
| VEHICLE R-55       | 100   | 46.5   | 64.6   | 81.2   | 92.8   | 92.9   | 39.7   | 93.0   | 92.4   | 84.3   | 87.3   | 86.7   |   |   |   |   |   |   |
| CONFIC 2/1         | 120   | 52.4   | 69.7   | 86.3   | 97.0   | 97.6   | 41.7   | 95.4   | 96.0   | 87.2   | 87.4   | 86.8   |   |   |   |   |   |   |
| LOC SCHENECTADY    | 150   | 51.8   | 69.1   | 83.0   | 94.9   | 95.2   | 40.0   | 96.0   | 97.2   | 88.0   | 89.0   | 88.0   |   |   |   |   |   |   |
| DATE 1/9/75        | 200   | 50.7   | 68.3   | 82.4   | 94.6   | 94.6   | 44.0   | 96.2   | 96.3   | 89.2   | 89.1   | 87.0   |   |   |   |   |   |   |
| RUN 46/5           | 250   | 53.6   | 69.7   | 86.0   | 96.5   | 99.1   | 45.0   | 96.0   | 96.2   | 89.1   | 89.0   | 88.0   |   |   |   |   |   |   |
| TAPE               | 315   | 55.5   | 71.3   | 86.0   | 96.7   | 99.2   | 45.0   | 99.5   | 99.9   | 89.2   | 88.7   | 84.7   |   |   |   |   |   |   |
| BAR 29.7 HG        | 400   | 53.9   | 69.2   | 85.4   | 95.3   | 97.7   | 43.0   | 98.9   | 99.0   | 88.0   | 87.0   | 83.2   |   |   |   |   |   |   |
| (00220, N/M2)      | 500   | 51.9   | 67.0   | 83.3   | 95.0   | 97.1   | 43.0   | 99.1   | 96.4   | 87.9   | 86.1   | 81.9   |   |   |   |   |   |   |
| YANG 50, DEG F     | 630   | 52.6   | 68.0   | 86.0   | 96.7   | 99.7   | 46.0   | 91.2   | 89.3   | 89.0   | 89.9   | 81.0   |   |   |   |   |   |   |
| (203, DEG K)       | 800   | 53.0   | 70.2   | 86.9   | 96.8   | 99.1   | 46.0   | 91.3   | 91.8   | 89.0   | 88.2   | 80.5   |   |   |   |   |   |   |
| TNET 46, DEG K)    | 1000  | 53.2   | 70.0   | 87.2   | 96.9   | 99.7   | 46.0   | 91.4   | 91.5   | 89.2   | 84.7   | 80.4   |   |   |   |   |   |   |
| (201, DEG K)       | 1250  | 53.6   | 70.9   | 88.0   | 96.9   | 91.9   | 46.0   | 93.8   | 93.0   | 91.2   | 84.7   | 80.8   |   |   |   |   |   |   |
| MACT 6.96 CM/M3    | 1690  | 54.9   | 73.7   | 91.2   | 94.2   | 98.0   | 51.0   | 96.0   | 93.3   | 93.0   | 85.4   | 87.0   |   |   |   |   |   |   |
| ( 00000 KG/M3)     | 2000  | 60.7   | 79.6   | 88.8   | 92.1   | 93.0   | 59.0   | 93.8   | 93.1   | 88.9   | 81.0   | 80.0   |   |   |   |   |   |   |
| MFA 7000, RPM      | 2500  | 57.2   | 77.4   | 89.3   | 99.2   | 98.4   | 55.0   | 91.0   | 89.0   | 84.9   | 87.2   | 80.4   |   |   |   |   |   |   |
| ( 023, RAD/SEC)    | 3150  | 56.1   | 77.1   | 88.0   | 98.4   | 91.4   | 56.0   | 90.0   | 89.9   | 86.8   | 88.1   | 80.8   |   |   |   |   |   |   |
| MFA 7027, RPM      | 4000  | 60.1   | 80.0   | 89.0   | 92.7   | 96.2   | 59.0   | 90.2   | 97.5   | 93.2   | 84.2   | 85.0   |   |   |   |   |   |   |
| ( 030, RAD/SEC)    | 5000  | 57.7   | 79.5   | 87.9   | 94.0   | 94.9   | 61.0   | 94.0   | 93.9   | 88.0   | 89.4   | 80.0   |   |   |   |   |   |   |
| MFA 8023, RPM      | 6300  | 59.2   | 84.0   | 91.4   | 92.1   | 92.3   | 60.0   | 90.0   | 91.0   | 90.5   | 82.9   | 82.0   |   |   |   |   |   |   |
| ( 024, RAD/SEC)    | 8000  | 54.0   | 77.3   | 85.0   | 90.2   | 90.4   | 50.0   | 92.0   | 91.3   | 84.4   | 88.2   | 82.3   |   |   |   |   |   |   |
| NO. OF BLADES 15   | 10000 | 51.2   | 73.7   | 83.3   | 87.0   | 88.7   | 56.0   | 90.0   | 88.4   | 82.4   | 82.4   | 80.0   |   |   |   |   |   |   |
| FAN TIP SPEED      | 12500 | 49.0   | 71.0   | 80.0   | 83.0   | 84.3   | 52.0   | 88.0   | 88.0   | 87.4   | 87.0   | 80.0   |   |   |   |   |   |   |
| 600, FT/SEC        | 16000 | 49.7   | 63.2   | 82.7   | 87.1   | 88.1   | 48.0   | 86.9   | 86.9   | 86.0   | 87.0   | 17.0   |   |   |   |   |   |   |
|                    | 20000 | 33.0   | 56.1   | 66.3   | 80.8   | 83.4   | 39.3   | 84.1   | 81.9   | 81.0   | 80.1   | 1.0    |   |   |   |   |   |   |
|                    | 25000 | 23.4   | 40.8   | 56.7   | 61.7   | 64.1   | 31.5   | 85.0   | 81.4   | 80.9   | 13.2   |        |   |   |   |   |   |   |
|                    | 31500 | 18.1   | 34.4   | 48.0   | 58.6   | 62.3   | 21.2   | 81.4   | 80.7   | 13.3   |        |        |   |   |   |   |   |   |
|                    | 40000 |        | 19.4   | 6.4    | 12.7   | 14.2   | 7.6    | 11.0   | 4.2    |        |        |        |   |   |   |   |   |   |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
| OVERALL CALCULATED |       | 66.9   | 69.8   | 77.4   | 84.2   | 85.2   | 71.0   | 84.1   | 84.9   | 79.4   | 72.1   | 66.3   |   |   |   |   |   |   |
| PH00               |       | 82.4   | 103.4  | 90.0   | 96.2   | 96.0   | 85.0   | 87.4   | 88.7   | 93.2   | 88.0   | 77.0   |   |   |   |   |   |   |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 11 HR. 14.5

MODEL SOUND PRESSURE LEVELS 150. LEG. P. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND MILLIANGS)

|                    |                 | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0. | 0. | 0. | 0. | 0. | PWL   |
|--------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|-------|
|                    |                 | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.89) | (2.06) | (2.24) | (2.42) | (2.60) | (2.79) | (0.  | 0. | 0. | 0. | 0. | 0. |       |
|                    | FREQ.           | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.89) | (2.06) | (2.24) | (2.42) | (2.60) | (2.79) | (0.  | 0. | 0. | 0. | 0. | 0. |       |
|                    | 50              |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
|                    | 63              |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
|                    | 80              |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
|                    | 100             |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
| RADIAL             | 17. FT.         |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
|                    | ( 5. M)         |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
| VEHICLE            | R-55            | 100    | 65.7   | 66.5   | 76.9   | 77.7   | 77.5   | 62.5   | 74.9   | 69.7   | 71.9   | 75.9   | 77.6 |    |    |    |    |    | 112.7 |
| CONFIG             |                 | 125    | 69.0   | 63.3   | 71.2   | 66.2   | 74.0   | 57.5   | 66.4   | 71.7   | 73.4   | 73.9   | 75.8 |    |    |    |    |    | 109.4 |
| LOC                | SCHENECTADY     | 100    | 65.7   | 61.0   | 65.4   | 66.2   | 67.3   | 57.5   | 69.7   | 70.9   | 73.4   | 75.9   | 76.3 |    |    |    |    |    | 107.0 |
| DATE               | 1/9/75          | 200    | 66.7   | 60.7   | 65.4   | 66.9   | 69.5   | 67.3   | 72.4   | 74.2   | 75.2   | 77.4   | 78.1 |    |    |    |    |    | 106.6 |
| RUN                | 46/6            | 250    | 66.7   | 62.7   | 69.2   | 69.9   | 71.5   | 66.5   | 73.2   | 73.2   | 74.4   | 75.4   | 76.3 |    |    |    |    |    | 109.3 |
| TAPE               |                 | 315    | 69.2   | 64.5   | 70.7   | 71.7   | 72.8   | 57.5   | 73.4   | 74.2   | 74.7   | 76.2   | 75.8 |    |    |    |    |    | 110.0 |
| BAR                | 29.7 MG         | 400    | 66.7   | 63.2   | 66.7   | 69.7   | 71.5   | 66.5   | 73.2   | 74.2   | 75.4   | 75.2   | 74.6 |    |    |    |    |    | 109.6 |
|                    | (10220 N/M2)    | 500    | 65.0   | 61.5   | 67.9   | 69.5   | 71.0   | 66.5   | 73.9   | 73.7   | 74.4   | 74.2   | 73.3 |    |    |    |    |    | 109.4 |
| TAMB               | 50 DEG F        | 630    | 67.3   | 64.0   | 70.7   | 72.7   | 74.3   | 66.5   | 76.2   | 76.9   | 77.7   | 77.2   | 74.6 |    |    |    |    |    | 111.0 |
|                    | (263 DEG K)     | 800    | 66.0   | 64.0   | 71.9   | 73.7   | 74.8   | 66.5   | 77.7   | 79.2   | 79.2   | 77.9   | 73.6 |    |    |    |    |    | 112.1 |
| TNET               | 46 DEG F        | 1000   | 66.3   | 63.0   | 72.9   | 73.7   | 74.8   | 66.5   | 78.4   | 79.9   | 80.7   | 78.9   | 73.6 |    |    |    |    |    | 112.6 |
|                    | (201 DEG K)     | 1250   | 74.0   | 61.3   | 79.2   | 81.3   | 84.4   | 66.5   | 80.7   | 80.7   | 80.4   | 85.7   | 80.6 |    |    |    |    |    | 120.2 |
| MACT               | 6.96 GM/M3      | 1600   | 72.0   | 61.0   | 78.9   | 80.8   | 83.0   | 66.5   | 80.0   | 80.7   | 80.4   | 83.2   | 77.1 |    |    |    |    |    | 119.1 |
|                    | (.00696 KG/M3)  | 2000   | 72.3   | 60.3   | 77.7   | 80.8   | 83.4   | 66.5   | 85.0   | 85.1   | 85.2   | 81.2   | 76.1 |    |    |    |    |    | 110.2 |
| NFA                | 5510 RPM        | 2500   | 78.3   | 69.1   | 85.4   | 86.8   | 90.2   | 66.5   | 90.9   | 92.1   | 91.9   | 85.9   | 84.1 |    |    |    |    |    | 125.7 |
|                    | ( 577. RAD/SEC) | 3150   | 75.8   | 66.3   | 82.6   | 85.4   | 88.4   | 66.5   | 90.3   | 91.3   | 90.7   | 84.9   | 82.0 |    |    |    |    |    | 123.0 |
| NFK                | 5550 RPM        | 4000   | 78.7   | 69.0   | 83.9   | 86.0   | 92.4   | 66.5   | 94.7   | 92.7   | 92.6   | 88.7   | 84.8 |    |    |    |    |    | 125.3 |
|                    | ( 582. RAD/SEC) | 5000   | 73.7   | 62.7   | 81.5   | 85.1   | 87.3   | 66.5   | 91.2   | 91.2   | 90.8   | 84.6   | 79.4 |    |    |    |    |    | 122.4 |
| NFB                | 8823 RPM        | 6300   | 73.0   | 63.8   | 81.7   | 84.7   | 89.7   | 66.5   | 90.4   | 91.0   | 90.0   | 84.3   | 79.5 |    |    |    |    |    | 122.7 |
|                    | ( 924. RAD/SEC) | 8000   | 69.8   | 60.9   | 78.9   | 82.6   | 85.6   | 66.5   | 87.9   | 90.2   | 88.6   | 83.8   | 77.6 |    |    |    |    |    | 120.3 |
| NO. OF BLADES      | 15              | 10000  | 66.8   | 66.9   | 77.4   | 81.7   | 84.4   | 66.5   | 87.7   | 88.9   | 88.9   | 84.0   | 77.0 |    |    |    |    |    | 119.7 |
| PAN TIP SPEED      | 481. FT/SEC     | 12500  | 67.5   | 66.8   | 78.7   | 79.2   | 83.5   | 66.5   | 86.8   | 87.7   | 87.2   | 82.7   | 79.2 |    |    |    |    |    | 116.8 |
|                    |                 | 15000  | 64.2   | 63.8   | 71.6   | 75.3   | 79.2   | 66.5   | 83.3   | 85.8   | 84.7   | 81.7   | 72.9 |    |    |    |    |    | 116.0 |
|                    |                 | 20000  | 62.7   | 61.8   | 70.0   | 74.0   | 77.5   | 66.5   | 82.3   | 84.6   | 83.8   | 80.3   | 71.9 |    |    |    |    |    | 115.5 |
|                    |                 | 25000  | 61.2   | 61.3   | 67.4   | 71.5   | 75.1   | 66.5   | 79.2   | 80.5   | 80.8   | 76.9   | 69.8 |    |    |    |    |    | 114.4 |
|                    |                 | 31500  | 60.4   | 61.4   | 65.8   | 70.0   | 73.8   | 66.5   | 77.9   | 79.5   | 79.4   | 74.2   | 67.8 |    |    |    |    |    | 116.1 |
|                    |                 | 40000  | 60.0   | 60.7   | 63.8   | 66.9   | 71.4   | 66.5   | 75.3   | 76.1   | 76.1   | 71.9   | 66.1 |    |    |    |    |    | 116.3 |
|                    |                 | 50000  | 61.7   | 62.1   | 63.4   | 64.8   | 70.3   | 66.5   | 72.8   | 73.5   | 72.4   | 71.7   | 67.2 |    |    |    |    |    | 123.5 |
|                    |                 | 63000  | 62.5   | 63.2   | 62.8   | 63.6   | 69.4   | 66.5   | 70.7   | 71.5   | 69.3   | 71.8   | 68.8 |    |    |    |    |    | 127.9 |
|                    |                 | 80000  | 65.6   | 64.5   | 63.4   | 65.0   | 70.3   | 66.5   | 72.0   | 72.8   | 70.6   | 73.0   | 70.3 |    |    |    |    |    | 126.9 |
| OVERALL MEASURED   |                 |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
| OVERALL CALCULATED |                 | 85.9   | 104.7  | 92.1   | 95.1   | 96.5   | 96.0   | 100.7  | 101.0  | 100.7  | 96.2   | 92.3   |      |    |    |    |    |    | 135.3 |
| PNDW               |                 | 99.9   | 116.7  | 105.7  | 109.2  | 112.6  | 100.1  | 114.6  | 113.9  | 113.6  | 109.9  | 106.1  |      |    |    |    |    |    |       |

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OF POOR QUALITY

| PRG#               | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.  | 0.  | 0.  | 0.  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|
|                    | (1.02) | (1.10) | (1.36) | (1.53) | (1.71) | (1.90) | (2.09) | (2.24) | (2.42) | (2.60) | (2.79) | 10.  | 10. | 10. | 10. | 10. |
| 50                 |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| 63                 |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| BIDELINE 200. FT.  | 100    | 42.7   | 64.3   | 85.2   | 96.1   | 99.9   | 40.0   | 92.2   | 49.0   | 46.0   | 46.3   | 46.2 |     |     |     |     |
| ( 60.96 W)         | 120    | 48.0   | 60.9   | 49.3   | 40.5   | 32.3   | 37.4   | 45.7   | 47.0   | 49.0   | 46.1   | 44.2 |     |     |     |     |
| VEHICLE N-55       | 140    | 42.5   | 58.0   | 43.0   | 44.5   | 45.5   | 37.3   | 46.0   | 46.0   | 47.0   | 46.0   | 44.0 |     |     |     |     |
| CONFIG 2.3         | 200    | 43.4   | 50.3   | 43.4   | 45.1   | 47.0   | 38.0   | 49.5   | 50.1   | 49.5   | 49.3   | 46.0 |     |     |     |     |
| LOC SCHEMATIC      | 250    | 45.3   | 60.2   | 47.1   | 48.0   | 49.0   | 38.2   | 50.1   | 49.0   | 48.0   | 47.1   | 44.0 |     |     |     |     |
| DATE 1/9/78        | 310    | 45.7   | 61.0   | 48.5   | 49.7   | 50.7   | 37.1   | 50.3   | 49.0   | 48.7   | 47.7   | 43.2 |     |     |     |     |
| RUN 46/0           | 400    | 43.1   | 60.3   | 46.4   | 47.6   | 49.4   | 37.0   | 49.0   | 49.0   | 49.3   | 46.0   | 41.7 |     |     |     |     |
| TAPE               | 500    | 42.0   | 59.0   | 45.0   | 47.3   | 49.3   | 36.0   | 50.0   | 49.2   | 48.2   | 45.4   | 40.2 |     |     |     |     |
| BAR 20.7 HG        | 630    | 43.4   | 61.0   | 48.2   | 50.5   | 52.0   | 36.0   | 52.7   | 52.3   | 51.3   | 48.2   | 41.1 |     |     |     |     |
| ( 10020. W/M2)     | 800    | 44.1   | 61.7   | 49.4   | 51.4   | 52.4   | 45.2   | 54.1   | 54.4   | 52.0   | 48.7   | 40.0 |     |     |     |     |
| TANK 50, DEG F     | 1000   | 44.2   | 61.0   | 50.2   | 51.2   | 52.0   | 36.0   | 54.7   | 55.0   | 53.0   | 49.4   | 39.7 |     |     |     |     |
| ( 203, DEG K)      | 1200   | 50.3   | 67.0   | 50.4   | 50.7   | 61.0   | 42.7   | 64.0   | 63.0   | 61.0   | 55.0   | 40.0 |     |     |     |     |
| THET 40, DEG F     | 1400   | 48.3   | 67.5   | 55.0   | 50.0   | 60.0   | 45.0   | 62.0   | 61.3   | 59.2   | 53.1   | 42.0 |     |     |     |     |
| ( 201, DEG K)      | 1600   | 47.0   | 66.0   | 54.5   | 57.0   | 60.3   | 45.0   | 61.3   | 59.0   | 57.7   | 50.0   | 40.0 |     |     |     |     |
| MACT 0.90 GM/M3    | 2000   | 53.4   | 75.1   | 62.0   | 63.0   | 66.0   | 51.0   | 66.4   | 66.3   | 64.2   | 54.7   | 47.0 |     |     |     |     |
| (.00096 KG/M3)     | 3100   | 50.0   | 72.1   | 59.0   | 62.0   | 64.0   | 51.0   | 65.0   | 65.2   | 62.5   | 53.1   | 45.1 |     |     |     |     |
| NFA 5510, RPM      | 4000   | 47.7   | 67.0   | 57.2   | 61.0   | 63.2   | 46.0   | 65.0   | 64.2   | 61.0   | 51.0   | 40.0 |     |     |     |     |
| ( 577, RAD/SEC)    | 5000   | 46.1   | 67.3   | 56.0   | 59.0   | 64.0   | 45.3   | 64.1   | 63.0   | 60.0   | 50.2   | 38.0 |     |     |     |     |
| NFK 5550, RPM      | 6000   | 41.7   | 63.0   | 52.0   | 56.0   | 59.0   | 45.1   | 60.3   | 60.0   | 56.0   | 47.2   | 33.3 |     |     |     |     |
| ( 582, RAD/SEC)    | 8000   | 38.0   | 60.4   | 49.4   | 54.3   | 58.0   | 45.1   | 58.4   | 57.0   | 54.1   | 44.7   | 28.2 |     |     |     |     |
| NFB 6023, RPM      | 10000  | 35.0   | 55.7   | 45.0   | 49.0   | 53.0   | 45.0   | 54.0   | 53.0   | 49.4   | 38.0   | 25.0 |     |     |     |     |
| ( 924, RAD/SEC)    | 12000  | 27.4   | 49.2   | 38.2   | 42.2   | 45.0   | 45.0   | 47.4   | 46.7   | 41.3   | 30.0   | 0.7  |     |     |     |     |
| NO. OF BLADES 15   | 14000  | 20.2   | 41.0   | 31.0   | 34.1   | 39.4   | 36.0   | 40.0   | 39.4   | 33.0   | 19.0   |      |     |     |     |     |
| FAN TIP SPEED      | 16000  | 18.0   | 34.1   | 22.0   | 24.0   | 30.1   | 36.0   | 38.0   | 36.0   | 29.4   | 20.2   |      |     |     |     |     |
| 401, FT/SEC        | 18000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| 20000              |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| 31500              |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| 40000              |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| 50000              |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| 63000              |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| 80000              |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| OVERALL CALCULATED | 60.7   | 60.2   | 60.2   | 71.2   | 74.2   | 76.8   | 78.2   | 73.0   | 71.0   | 64.3   | 60.7   |      |     |     |     |     |
| PRG#               | 74.3   | 64.8   | 62.1   | 65.4   | 68.0   | 70.7   | 69.5   | 67.4   | 68.1   | 70.0   | 68.0   |      |     |     |     |     |





|                    |       | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.     | 0.     | 0.     | 0.     | 0.     |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                    | FREQ. | (1.02) | (1.10) | (1.16) | (1.23) | (1.31) | (1.40) | (1.49) | (1.59) | (1.69) | (1.80) | (1.91) | (2.03) | (2.15) | (2.28) | (2.41) | (2.55) |
|                    | 50    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 63    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| SIDELINE 200. FT.  | 60    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ( 60.90 M)         | 100   | 37.5   | 40.0   | 41.9   | 42.8   | 43.0   | 42.7   | 40.2   | 40.1   | 40.1   | 40.4   |        |        |        |        |        |        |
| VEHICLE R-55       | 129   | 37.4   | 45.7   | 48.0   | 47.2   | 42.0   | 40.7   | 45.7   | 47.5   | 40.2   | 40.1   | 44.2   |        |        |        |        |        |
| CONFIC 40W 32      | 100   | 37.3   | 43.3   | 44.0   | 44.9   | 47.0   | 45.0   | 47.0   | 47.2   | 47.0   | 40.0   | 44.2   |        |        |        |        |        |
| LOC SCHENECTADY    | 200   | 37.2   | 43.3   | 44.4   | 46.3   | 49.6   | 40.7   | 49.7   | 49.0   | 49.7   | 49.0   | 40.2   |        |        |        |        |        |
| DATE 1/13/75       | 250   | 37.1   | 45.9   | 47.0   | 49.2   | 51.1   | 49.9   | 50.4   | 49.9   | 40.0   | 47.9   | 40.7   |        |        |        |        |        |
| RUA 47/1           | 315   | 37.0   | 47.1   | 40.2   | 50.7   | 51.0   | 50.0   | 50.3   | 49.9   | 49.0   | 40.2   | 40.7   |        |        |        |        |        |
| TAPE               | 400   | 36.9   | 45.7   | 47.2   | 40.0   | 51.2   | 50.0   | 51.4   | 50.0   | 49.3   | 40.9   | 41.0   |        |        |        |        |        |
| BAR 29.7 HG        | 500   | 36.9   | 43.6   | 45.3   | 47.0   | 40.0   | 40.7   | 51.3   | 49.4   | 40.2   | 40.1   | 40.2   |        |        |        |        |        |
| ( 80295. N/M2)     | 630   | 36.0   | 40.3   | 40.0   | 49.9   | 52.0   | 52.0   | 53.2   | 52.3   | 51.3   | 40.9   | 41.4   |        |        |        |        |        |
| TAND 41. DEG F     | 800   | 36.6   | 46.4   | 49.1   | 51.3   | 52.1   | 52.7   | 54.1   | 54.1   | 52.0   | 40.4   | 40.0   |        |        |        |        |        |
| (270. DEG K)       | 1000  | 36.5   | 48.0   | 51.0   | 51.7   | 53.2   | 54.3   | 54.7   | 54.5   | 53.9   | 49.7   | 39.2   |        |        |        |        |        |
| TNEY 39. DEG F     | 1250  | 36.4   | 53.0   | 55.0   | 56.9   | 61.9   | 63.3   | 64.8   | 63.0   | 61.7   | 59.9   | 40.0   |        |        |        |        |        |
| (277. DEG K)       | 1500  | 36.2   | 52.0   | 55.2   | 57.7   | 60.5   | 61.0   | 62.3   | 61.3   | 59.2   | 53.1   | 42.0   |        |        |        |        |        |
| NACT 5.72 GW/RS    | 2000  | 35.9   | 52.1   | 55.5   | 50.0   | 61.1   | 61.9   | 61.9   | 59.0   | 57.9   | 51.0   | 41.2   |        |        |        |        |        |
| ( 600572 KG/M3)    | 2500  | 35.7   | 60.0   | 64.0   | 65.7   | 66.2   | 70.7   | 74.4   | 71.3   | 67.7   | 50.2   | 47.9   |        |        |        |        |        |
| WFA 5476. RPM      | 3150  | 35.4   | 50.0   | 59.7   | 61.0   | 63.0   | 60.7   | 69.0   | 60.7   | 63.7   | 64.0   | 44.0   |        |        |        |        |        |
| ( 573. RAD/SEC)    | 4000  | 34.0   | 57.3   | 61.2   | 62.0   | 60.0   | 60.9   | 70.2   | 69.0   | 64.0   | 54.2   | 44.5   |        |        |        |        |        |
| NFR 5574. RPM      | 5000  | 34.5   | 53.0   | 57.2   | 61.7   | 63.7   | 63.9   | 60.4   | 64.2   | 61.0   | 52.2   | 40.0   |        |        |        |        |        |
| ( 594. RAD/SEC)    | 6300  | 33.7   | 51.1   | 50.0   | 50.1   | 62.6   | 62.1   | 63.3   | 62.0   | 61.0   | 50.9   | 39.7   |        |        |        |        |        |
| NFB 8023. RPM      | 8000  | 33.8   | 40.1   | 52.3   | 50.0   | 50.2   | 59.9   | 59.9   | 59.4   | 50.7   | 47.0   | 41.0   |        |        |        |        |        |
| ( 924. RAD/SEC)    | 10000 | 33.0   | 45.5   | 50.0   | 54.0   | 50.2   | 50.1   | 50.7   | 57.7   | 63.0   | 43.0   | 20.0   |        |        |        |        |        |
| NO. OF BLADES 15   | 12500 | 26.0   | 41.3   | 49.0   | 50.4   | 52.9   | 53.7   | 54.5   | 53.7   | 49.5   | 37.4   | 20.2   |        |        |        |        |        |
| FAN TIP SPEED      | 20000 | 24.5   | 34.0   | 39.0   | 43.4   | 40.2   | 47.5   | 47.2   | 47.0   | 41.1   | 27.2   | 7.1    |        |        |        |        |        |
| 470. FT/SEC        | 25000 | 19.0   | 27.7   | 33.1   | 30.0   | 30.0   | 41.4   | 40.0   | 30.2   | 33.9   | 10.7   |        |        |        |        |        |        |
|                    | 30000 | 17.0   | 19.4   | 23.0   | 20.3   | 20.7   | 33.1   | 30.0   | 22.8   | 19.0   | 1.3    |        |        |        |        |        |        |
|                    | 31500 | 0.1    | 7.4    | 12.3   | 10.0   | 20.4   | 23.3   | 10.2   | 13.3   | 3.0    |        |        |        |        |        |        |        |
|                    | 40000 |        |        |        | 0.1    | 2.0    | 0.0    |        |        |        |        |        |        |        |        |        |        |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |       | 41.4   | 65.7   | 60.0   | 71.3   | 73.0   | 75.3   | 77.0   | 70.0   | 73.0   | 64.0   | 50.7   |        |        |        |        |        |
| PHOC               |       | 60.0   | 70.0   | 63.2   | 60.0   | 67.3   | 69.0   | 62.2   | 60.0   | 60.0   | 70.0   | 60.0   |        |        |        |        |        |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PHOC. DATE = MUMIN 3 DAY 11 HR. 12.4  
MODEL SOUND PRESSURE LEVELS 150, DEG. F. 70 PERCENT REL. HUM. SAT)  
ANGLE FROM INLET IN DEGREES (AND RADIAN)

|                     | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.    | 0.   | 0.   | 0.   | 0.   | 0.   | PWL   |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|------|------|------|-------|
| FREQ                | (1.02) | (1.10) | (1.30) | (1.53) | (1.71) | (1.00) | (2.00) | (2.24) | (2.42) | (2.60) | (2.78) | 110.  | 110. | 110. | 110. | 110. | 110. |       |
| RADIAL 17. FT.      | 100    | 00.5   | 00.3   | 71.2   | 73.1   | 76.0   | 76.3   | 75.2   | 74.7   | 73.9   | 72.7   | 00.0  |      |      |      |      |      | 100.7 |
| VEHICLE (S, M)      | 125    | 00.5   | 00.3   | 71.9   | 71.1   | 74.8   | 72.3   | 71.9   | 74.9   | 76.4   | 77.9   | 79.0  |      |      |      |      |      | 107.0 |
| CONFIG              | 100    | 05.0   | 00.3   | 69.4   | 70.6   | 70.0   | 71.3   | 73.2   | 74.4   | 77.4   | 79.7   | 80.0  |      |      |      |      |      | 107.0 |
| LOC SCHEMECTABY     | 200    | 05.5   | 00.2   | 69.4   | 70.9   | 72.0   | 74.3   | 75.2   | 77.7   | 78.4   | 80.7   | 81.0  |      |      |      |      |      | 109.4 |
| DATE 1/13/75        | 250    | 68.0   | 61.0   | 72.0   | 74.1   | 74.5   | 75.0   | 76.4   | 76.7   | 77.9   | 79.4   | 80.0  |      |      |      |      |      | 109.4 |
| RUN 47/2            | 315    | 69.    | 60.2   | 73.9   | 75.6   | 75.6   | 76.0   | 77.2   | 77.7   | 78.7   | 80.4   | 80.1  |      |      |      |      |      | 110.4 |
| TAPE                | 400    | 68.    | 60.2   | 72.7   | 73.4   | 74.0   | 75.0   | 76.2   | 76.9   | 78.2   | 78.7   | 79.1  |      |      |      |      |      | 105.0 |
| BAR 20.7 MG         | 500    | 66.0   | 60.0   | 70.9   | 72.9   | 74.3   | 75.3   | 77.2   | 77.4   | 77.7   | 78.2   | 77.1  |      |      |      |      |      | 100.0 |
| (60295. N/M2)       | 630    | 68.    | 60.0   | 73.7   | 75.2   | 76.0   | 76.3   | 79.2   | 79.9   | 80.9   | 80.7   | 79.1  |      |      |      |      |      | 111.4 |
| TAMB 41. DEG F      | 800    | 68.    | 60.0   | 74.7   | 76.2   | 77.6   | 78.6   | 80.4   | 81.4   | 81.7   | 79.9   | 77.0  |      |      |      |      |      | 112.2 |
| (270. DEG K)        | 1000   | 68.    | 60.0   | 75.9   | 76.7   | 77.6   | 79.6   | 80.9   | 81.7   | 83.2   | 80.9   | 77.0  |      |      |      |      |      | 112.0 |
| TNET 39. DEG F      | 1250   | 69.    | 61.0   | 77.4   | 79.5   | 81.6   | 83.6   | 85.2   | 85.9   | 86.2   | 82.2   | 78.0  |      |      |      |      |      | 110.3 |
| (277. DEG K)        | 1500   | 76.    | 67.    | 83.7   | 87.5   | 90.0   | 91.4   | 91.9   | 93.2   | 92.0   | 87.2   | 82.0  |      |      |      |      |      | 123.0 |
| MACT 5.72 CM/M3     | 2000   | 71.0   | 64.    | 81.2   | 84.5   | 86.6   | 87.9   | 89.0   | 88.9   | 88.2   | 83.2   | 79.3  |      |      |      |      |      | 120.0 |
| (.00572 KG/M3)      | 2500   | 72.0   | 65.    | 82.0   | 86.3   | 88.2   | 89.9   | 90.9   | 91.1   | 90.9   | 85.0   | 80.3  |      |      |      |      |      | 121.0 |
| MFA 6252. RPM       | 3150   | 78.    | 68.    | 87.6   | 90.1   | 91.7   | 91.1   | 90.0   | 90.3   | 94.7   | 89.0   | 86.0  |      |      |      |      |      | 120.4 |
| ( 655. RAD/SEC)     | 4000   | 75.    | 68.    | 87.3   | 91.3   | 92.9   | 93.1   | 94.0   | 94.5   | 93.1   | 87.5   | 82.2  |      |      |      |      |      | 125.4 |
| MFK 6363. RPM       | 5000   | 80.    | 74.    | 95.2   | 99.5   | 99.9   | 95.0   | 97.7   | 100.7  | 99.3   | 93.2   | 86.4  |      |      |      |      |      | 131.0 |
| ( 666. RAD/SEC)     | 6300   | 73.0   | 67.0   | 85.4   | 89.4   | 92.2   | 94.2   | 94.2   | 94.5   | 93.1   | 87.4   | 82.0  |      |      |      |      |      | 129.0 |
| MFB 8023. RPM       | 8000   | 71.4   | 64.0   | 85.0   | 89.1   | 90.9   | 91.6   | 92.0   | 93.2   | 92.2   | 86.3   | 81.0  |      |      |      |      |      | 123.9 |
| ( 924. RAD/SEC)     | 10000  | 70.7   | 64.0   | 83.5   | 87.4   | 89.4   | 91.5   | 92.7   | 93.7   | 92.5   | 86.3   | 81.0  |      |      |      |      |      | 123.0 |
| NO. OF BLADES 15    | 12500  | 69.1   | 63.0   | 81.5   | 85.7   | 87.3   | 93.1   | 91.3   | 92.0   | 90.7   | 85.0   | 78.0  |      |      |      |      |      | 122.0 |
| PAN TIP SPEED 10000 | 20000  | 66.1   | 61.0   | 77.7   | 81.1   | 83.6   | 86.5   | 87.9   | 90.0   | 87.6   | 82.0   | 76.7  |      |      |      |      |      | 120.4 |
| 546. FT/SEC         | 25000  | 65.3   | 61.4   | 76.3   | 80.2   | 82.3   | 86.0   | 87.1   | 90.5   | 87.2   | 82.3   | 75.5  |      |      |      |      |      | 120.5 |
| 31500               | 31500  | 64.5   | 63.2   | 74.2   | 78.2   | 80.2   | 89.3   | 85.0   | 88.6   | 85.1   | 80.0   | 73.1  |      |      |      |      |      | 120.0 |
| 40000               | 40000  | 66.2   | 63.7   | 70.4   | 74.4   | 76.5   | 80.2   | 81.1   | 85.2   | 80.9   | 77.3   | 67.7  |      |      |      |      |      | 120.0 |
| 50000               | 50000  | 71.4   | 66.5   | 69.5   | 72.1   | 72.5   | 80.7   | 77.5   | 80.9   | 75.0   | 74.1   | 67.2  |      |      |      |      |      | 122.0 |
| 63000               | 63000  | 75.9   | 68.1   | 69.5   | 69.7   | 69.0   | 69.4   | 72.7   | 75.8   | 71.0   | 71.5   | 66.3  |      |      |      |      |      | 123.1 |
| 80000               | 80000  | 76.7   | 68.5   | 70.7   | 69.0   | 69.4   | 83.4   | 76.6   | 72.1   | 69.0   | 71.1   | 69.1  |      |      |      |      |      | 122.4 |
| OVERALL MEASURED    |        |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
| OVERALL CALCULATED  |        | 67.3   | 66.2   | 96.1   | 102.1  | 103.2  | 104.4  | 105.0  | 106.0  | 103.5  | 99.2   | 94.9  |      |      |      |      |      | 137.1 |
| PHOC                |        | 100.5  | 93.3   | 112.0  | 116.4  | 117.3  | 117.0  | 110.0  | 110.2  | 110.2  | 112.0  | 100.3 |      |      |      |      |      |       |

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NOVEL SOUND PRESSURE LEVELS (DB, DEG. F. = 70 PERCENT REL. HUM. DAT)

ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                     | FREQ. | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0. | 0. | 0. | 0. | 0. | 0. |
|---------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----|----|----|----|----|
|                     |       | (1.02) | (1.10) | (1.36) | (1.53) | (1.71) | (1.88) | (2.00) | (2.24) | (2.42) | (2.60) | (2.79) | 0. | 0. | 0. | 0. | 0. | 0. |
| SIDELINE 200. FT.   | 50    |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
| 1 60.00 PI          | 100   | 45.3   | 34.0   | 49.4   | 51.6   | 54.4   | 54.2   | 52.5   | 50.9   | 49.0   | 50.0   | 49.4   |    |    |    |    |    |    |
| VEHICLE R-95        | 125   | 45.2   | 37.0   | 50.1   | 49.5   | 53.1   | 50.2   | 49.2   | 51.0   | 51.0   | 50.1   | 48.2   |    |    |    |    |    |    |
| CONFIG 100.00       | 150   | 42.1   | 37.8   | 47.5   | 49.9   | 49.0   | 49.1   | 50.3   | 50.4   | 51.0   | 51.7   | 49.0   |    |    |    |    |    |    |
| LOC SCHEMECTAB      | 200   | 42.2   | 37.8   | 47.4   | 49.1   | 50.9   | 52.0   | 52.2   | 53.0   | 52.7   | 52.0   | 49.7   |    |    |    |    |    |    |
| DATE 1/13/75        | 250   | 44.9   | 39.4   | 50.0   | 52.2   | 52.0   | 52.7   | 51.4   | 52.5   | 52.1   | 51.1   | 49.0   |    |    |    |    |    |    |
| RUN 47/2            | 315   | 45.9   | 37.6   | 51.7   | 53.7   | 53.7   | 54.3   | 54.0   | 53.4   | 52.7   | 52.0   | 47.9   |    |    |    |    |    |    |
| TAPE                | 400   | 44.4   | 37.5   | 50.4   | 51.3   | 51.9   | 52.5   | 52.9   | 52.5   | 52.1   | 50.0   | 49.2   |    |    |    |    |    |    |
| BAR 20.7 MC         | 500   | 42.6   | 37.4   | 48.0   | 50.0   | 52.1   | 52.7   | 53.0   | 52.9   | 51.4   | 49.4   | 43.0   |    |    |    |    |    |    |
| 100295. N/N21       | 630   | 44.3   | 37.3   | 51.2   | 52.0   | 54.5   | 55.6   | 55.7   | 55.3   | 54.5   | 51.7   | 44.0   |    |    |    |    |    |    |
| TANG 01. DEG F      | 800   | 44.4   | 37.2   | 52.1   | 53.8   | 55.1   | 55.7   | 56.0   | 56.0   | 56.1   | 50.7   | 43.0   |    |    |    |    |    |    |
| (270. DEG R)        | 1000  | 44.9   | 37.0   | 53.2   | 54.2   | 55.8   | 56.6   | 57.2   | 56.7   | 56.4   | 51.4   | 42.7   |    |    |    |    |    |    |
| TNET 39. DEG F      | 1250  | 44.0   | 37.9   | 54.0   | 56.9   | 58.9   | 60.5   | 61.3   | 60.8   | 59.2   | 52.4   | 44.3   |    |    |    |    |    |    |
| 1277. DEG R         | 1500  | 51.2   | 44.2   | 60.7   | 64.7   | 67.8   | 68.1   | 67.8   | 67.0   | 66.2   | 57.0   | 47.0   |    |    |    |    |    |    |
| NACT 5.72 CM/M3     | 2000  | 46.2   | 40.0   | 58.0   | 61.6   | 63.0   | 64.4   | 65.4   | 65.3   | 60.7   | 52.0   | 43.7   |    |    |    |    |    |    |
| (.00572 KG/M3)      | 2500  | 44.9   | 41.1   | 59.3   | 63.2   | 64.9   | 66.2   | 66.4   | 65.3   | 63.2   | 54.2   | 44.2   |    |    |    |    |    |    |
| NFA 8252. RPM       | 3150  | 51.9   | 44.3   | 64.0   | 66.7   | 68.2   | 73.2   | 74.0   | 72.2   | 66.5   | 58.4   | 49.1   |    |    |    |    |    |    |
| ( 855. RAD/SEC)     | 4000  | 44.3   | 43.3   | 63.2   | 67.8   | 69.0   | 69.7   | 68.7   | 67.0   | 64.3   | 55.2   | 44.0   |    |    |    |    |    |    |
| NFX 6383. RPM       | 5000  | 51.7   | 49.0   | 70.9   | 75.5   | 75.7   | 71.1   | 72.1   | 73.7   | 66.1   | 60.4   | 47.2   |    |    |    |    |    |    |
| ( 666. RAD/SEC)     | 6300  | 44.5   | 41.0   | 60.4   | 64.0   | 67.3   | 68.9   | 68.3   | 66.0   | 62.2   | 53.2   | 41.0   |    |    |    |    |    |    |
| NFD 8823. RPM       | 8000  | 44.3   | 38.1   | 58.0   | 63.3   | 64.9   | 65.1   | 64.4   | 63.5   | 60.3   | 50.0   | 37.3   |    |    |    |    |    |    |
| ( 924. RAD/SEC)     | 10000 | 44.0   | 36.3   | 55.0   | 60.1   | 61.0   | 63.4   | 63.4   | 62.4   | 58.2   | 47.0   | 32.3   |    |    |    |    |    |    |
| NO. OF BLADES 15    | 12500 | 39.0   | 35.5   | 51.0   | 56.2   | 57.0   | 59.7   | 59.5   | 59.7   | 53.0   | 41.2   | 23.4   |    |    |    |    |    |    |
| PAN TIP SPEED       | 10000 | 27.3   | 27.1   | 44.0   | 47.9   | 50.4   | 54.3   | 53.0   | 52.0   | 44.4   | 31.0   | 18.6   |    |    |    |    |    |    |
| 846. FT/SEC         | 20000 | 22.0   | 21.5   | 37.0   | 42.3   | 44.2   | 49.7   | 45.7   | 45.4   | 36.4   | 21.7   |        |    |    |    |    |    |    |
|                     | 30000 | 19.0   | 18.9   | 29.3   | 33.8   | 35.7   | 42.8   | 39.0   | 39.0   | 23.7   | 8.8    |        |    |    |    |    |    |    |
|                     | 31500 | 21.1   | 4.9    | 18.1   | 22.4   | 24.0   | 33.8   | 33.2   | 21.0   | 7.4    |        |        |    |    |    |    |    |    |
|                     | 40000 |        |        |        | 9.1    | 6.0    | 12.2   | 3.7    |        |        |        |        |    |    |    |    |    |    |
|                     | 50000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
|                     | 63000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
|                     | 80000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
| OVERALL CAL. AT 180 | 50.8  | 54.4   | 72.7   | 77.0   | 76.0   | 79.6   | 79.3   | 79.5   | 78.8   | 67.1   | 59.8   |        |    |    |    |    |    |    |
| PHOC                | 72.0  | 68.4   | 88.8   | 92.8   | 93.3   | 92.0   | 93.0   | 92.0   | 87.0   | 80.0   | 71.3   |        |    |    |    |    |    |    |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 3 DAY 11 PM, 12.4

NOISE SOUND PRESSURE LEVELS (50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200)

ANGLES FROM INLET (IN DEGREES (LAND PARALLEL))

|                    | 50    | 60    | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 160  | 170 | 180 | 190 | 200   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|-----|-------|
| RADIAL 17. FT.     | 50    | 63    | 60    |       |       |       |       |       |       |       |       |      |     |     |     |       |
| VEHICLE (S. N.)    | 100   | 70.5  | 70.2  | 73.7  | 74.3  | 74.0  | 74.7  | 73.4  | 73.2  | 70.7  | 81.2  | 84.3 |     |     |     | 110.0 |
| CONFIG (S. N.)     | 120   | 70.7  | 70.2  | 70.7  | 80.1  | 79.3  | 79.0  | 75.0  | 77.4  | 79.7  | 81.2  | 84.0 |     |     |     | 112.0 |
| LOC SCHENECTADY    | 100   | 70.0  | 70.2  | 72.0  | 74.1  | 74.0  | 75.2  | 76.9  | 78.2  | 81.2  | 83.4  | 84.0 |     |     |     | 111.0 |
| DATE 1/13/75       | 200   | 70.5  | 70.2  | 71.9  | 74.0  | 76.0  | 70.2  | 70.2  | 80.2  | 81.9  | 84.0  | 85.0 |     |     |     | 113.0 |
| RUN 4773           | 200   | 70.5  | 70.4  | 70.2  | 77.0  | 78.0  | 79.2  | 79.9  | 80.7  | 81.9  | 84.2  | 84.3 |     |     |     | 113.0 |
| TAPE               | 400   | 70.0  | 70.2  | 77.2  | 70.0  | 79.0  | 79.5  | 80.2  | 80.9  | 82.7  | 83.9  | 84.1 |     |     |     | 113.0 |
| BAR 20.7 HG        | 800   | 70.5  | 70.2  | 73.7  | 70.1  | 77.5  | 78.2  | 79.2  | 80.0  | 81.0  | 82.4  | 82.9 |     |     |     | 112.7 |
| 100295, N/M2)      | 830   | 70.1  | 70.2  | 76.2  | 70.0  | 80.1  | 81.0  | 82.4  | 83.2  | 83.4  | 83.2  | 81.0 |     |     |     | 114.0 |
| TAMP 42, DEG F     | 800   | 70.1  | 70.2  | 77.4  | 79.9  | 80.0  | 81.3  | 82.0  | 84.2  | 83.7  | 82.9  | 81.1 |     |     |     | 113.0 |
| 1270, DEG K)       | 1000  | 70.0  | 70.2  | 70.4  | 79.9  | 80.0  | 82.0  | 83.4  | 84.2  | 84.7  | 82.4  | 79.0 |     |     |     | 113.0 |
| TWT 30, DEG F      | 1200  | 70.4  | 70.2  | 70.9  | 81.4  | 83.1  | 84.5  | 80.2  | 80.9  | 80.9  | 83.0  | 80.0 |     |     |     | 117.0 |
| 1277, DEG K)       | 1000  | 70.0  | 70.2  | 87.2  | 92.2  | 93.1  | 93.3  | 94.4  | 93.2  | 92.2  | 80.2  | 84.2 |     |     |     | 121.7 |
| NACT 5.42 GN/M3    | 2000  | 70.0  | 71.0  | 87.7  | 82.0  | 93.4  | 95.1  | 95.4  | 93.0  | 92.7  | 80.0  | 84.0 |     |     |     | 120.1 |
| (.00542 KG/M3)     | 2300  | 70.4  | 70.3  | 85.7  | 89.5  | 90.7  | 91.0  | 92.9  | 92.0  | 91.9  | 80.0  | 82.3 |     |     |     | 123.0 |
| NFA 7034, RPM      | 3100  | 70.0  | 71.0  | 90.0  | 93.5  | 90.2  | 89.1  | 100.0 | 103.0 | 90.2  | 91.0  | 80.0 |     |     |     | 121.0 |
| ( 730, RAD/SEC)    | 4000  | 70.5  | 72.2  | 91.3  | 94.3  | 90.4  | 87.5  | 100.0 | 103.0 | 90.0  | 91.7  | 80.0 |     |     |     | 121.0 |
| NPK 7152, RPM      | 5000  | 70.5  | 80.5  | 101.0 | 103.2 | 101.1 | 100.5 | 105.5 | 103.2 | 99.1  | 92.7  | 90.4 |     |     |     | 120.2 |
| ( 740, RAD/SEC)    | 6300  | 70.0  | 73.7  | 92.0  | 99.4  | 90.7  | 97.2  | 90.2  | 90.2  | 90.0  | 90.4  | 90.0 |     |     |     | 120.4 |
| NFB 8023, RPM      | 8000  | 70.4  | 72.2  | 80.7  | 94.1  | 94.7  | 90.0  | 90.0  | 97.2  | 94.2  | 89.3  | 84.1 |     |     |     | 120.1 |
| ( 820, RAD/SEC)    | 10000 | 70.2  | 71.2  | 87.0  | 91.7  | 93.2  | 90.0  | 97.5  | 97.2  | 94.3  | 89.4  | 84.1 |     |     |     | 127.0 |
| NO. OF BLADES IS   | 12500 | 70.4  | 70.9  | 85.0  | 90.0  | 92.1  | 93.9  | 90.4  | 90.3  | 92.3  | 87.0  | 81.0 |     |     |     | 120.4 |
| PAN TIP SPEED      | 10000 | 70.0  | 70.9  | 82.0  | 89.9  | 88.1  | 90.3  | 92.7  | 94.2  | 90.0  | 87.1  | 80.0 |     |     |     | 124.0 |
| 614, FT/SEC        | 20000 | 70.5  | 71.4  | 80.7  | 85.3  | 87.7  | 89.7  | 91.0  | 94.3  | 91.0  | 87.7  | 70.0 |     |     |     | 124.2 |
|                    | 25000 | 70.4  | 73.5  | 79.0  | 83.3  | 85.0  | 87.0  | 89.0  | 92.1  | 89.7  | 80.0  | 70.7 |     |     |     | 123.0 |
|                    | 31000 | 70.9  | 74.2  | 77.2  | 82.0  | 84.7  | 87.0  | 88.3  | 91.4  | 87.0  | 87.0  | 74.0 |     |     |     | 122.0 |
|                    | 40000 | 70.4  | 74.2  | 74.4  | 80.4  | 82.2  | 84.2  | 85.0  | 80.2  | 84.5  | 85.4  | 70.0 |     |     |     | 121.0 |
|                    | 50000 | 70.4  | 70.5  | 71.0  | 79.3  | 79.5  | 82.4  | 82.2  | 80.2  | 79.0  | 84.0  | 80.0 |     |     |     | 121.2 |
|                    | 63000 | 80.0  | 70.9  | 69.7  | 70.1  | 70.7  | 81.7  | 70.1  | 83.2  | 73.7  | 79.0  | 80.7 |     |     |     | 120.2 |
|                    | 80000 | 80.7  | 70.0  | 70.0  | 70.1  | 70.0  | 81.2  | 71.0  | 79.9  | 70.2  | 73.2  | 80.2 |     |     |     | 120.7 |
| OVERALL MEASURES   |       |       |       |       |       |       |       |       |       |       |       |      |     |     |     |       |
| OVERALL CALCULATED | 92.1  | 80.2  | 103.7 | 100.1 | 100.7 | 107.2 | 100.0 | 110.4 | 100.0 | 101.0 | 90.0  |      |     |     |     | 100.0 |
| PNM                | 100.0 | 100.0 | 110.1 | 120.3 | 110.0 | 120.0 | 120.0 | 120.0 | 120.0 | 110.0 | 111.0 |      |     |     |     |       |

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 11 AM 17.8

MODEL SCAND PRESSURE LEVELS 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200. 210. 220. 230. 240. 250.

ANGLED FROM INLET IN DEGREES (SAME RADIAN)

|                        | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 160.   | 170.   | 180.   | 190.   | 200.   |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ.                  | (1.02) | (1.19) | (1.30) | (1.53) | (1.71) | (1.88) | (2.09) | (2.24) | (2.42) | (2.60) | (2.79) | (3.00) | (3.21) | (3.43) | (3.66) | (3.89) |
| SIDELINE 300. FT.      | 50     | 63     | 68     | 73     | 78     | 83     | 88     | 93     | 98     | 103    | 108    | 113    | 118    | 123    | 128    | 133    |
| VEHICLE (40.00 M) N-25 | 100    | 47.5   | 47.9   | 51.0   | 52.0   | 53.1   | 52.7   | 50.7   | 49.4   | 51.3   | 53.5   | 52.0   | 52.7   | 53.0   | 52.0   | 52.0   |
| CONFIG (40.00 M) N-25  | 125    | 48.0   | 47.0   | 51.0   | 52.4   | 53.0   | 53.0   | 54.1   | 54.2   | 55.5   | 55.5   | 53.4   | 53.4   | 52.7   | 53.0   | 53.0   |
| LOC SCHEMECTABT        | 200    | 48.2   | 47.7   | 49.9   | 52.0   | 54.0   | 56.0   | 55.2   | 50.1   | 50.2   | 50.3   | 50.7   | 50.7   | 50.7   | 50.7   | 50.7   |
| DATE 1/13/78           | 250    | 49.1   | 48.0   | 54.1   | 55.9   | 56.0   | 56.9   | 56.9   | 50.3   | 50.1   | 50.9   | 52.0   | 52.0   | 52.0   | 52.0   | 52.0   |
| RUN 47/3               | 315    | 48.7   | 47.5   | 55.0   | 50.0   | 57.0   | 57.0   | 57.0   | 50.0   | 50.7   | 50.3   | 51.0   | 51.0   | 51.0   | 51.0   | 51.0   |
| TAPE                   | 400    | 48.4   | 47.0   | 52.9   | 54.5   | 55.4   | 55.7   | 55.9   | 50.5   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   |
| DAN 20.7 MG            | 500    | 48.8   | 47.9   | 51.3   | 54.0   | 55.3   | 55.8   | 56.0   | 50.7   | 54.7   | 53.4   | 50.2   | 50.2   | 50.2   | 50.2   | 50.2   |
| (100298. M/M2)         | 630    | 48.2   | 47.2   | 53.7   | 50.4   | 57.7   | 58.3   | 59.0   | 50.5   | 57.0   | 54.2   | 50.1   | 50.1   | 50.1   | 50.1   | 50.1   |
| TANG 43. DEG F         | 800    | 48.1   | 47.1   | 54.0   | 57.5   | 58.4   | 58.4   | 59.3   | 50.4   | 57.1   | 53.7   | 50.3   | 50.3   | 50.3   | 50.3   | 50.3   |
| (1270. DEG F)          | 1000   | 49.7   | 47.5   | 55.7   | 57.4   | 58.2   | 59.1   | 59.7   | 50.2   | 57.9   | 52.9   | 50.7   | 50.7   | 50.7   | 50.7   | 50.7   |
| TANG 39. DEG F         | 1200   | 51.1   | 48.0   | 50.1   | 50.0   | 60.4   | 61.4   | 62.3   | 61.0   | 60.0   | 50.2   | 50.2   | 50.2   | 50.2   | 50.2   | 50.2   |
| (377. DEG F)           | 1400   | 59.4   | 46.7   | 64.2   | 60.4   | 70.3   | 72.0   | 70.3   | 67.0   | 69.0   | 50.1   | 49.3   | 49.3   | 49.3   | 49.3   | 49.3   |
| MAGT 5.42 GM/M3        | 2000   | 53.9   | 47.3   | 64.3   | 67.0   | 70.3   | 71.0   | 71.1   | 60.3   | 60.2   | 50.3   | 49.2   | 49.2   | 49.2   | 49.2   | 49.2   |
| (.00042 KG/M3)         | 2500   | 54.5   | 46.3   | 62.3   | 60.4   | 67.4   | 67.9   | 66.0   | 67.1   | 64.2   | 55.2   | 46.2   | 46.2   | 46.2   | 46.2   | 46.2   |
| MFA 7034. RPM          | 3150   | 53.4   | 48.0   | 67.0   | 70.1   | 74.7   | 74.1   | 75.0   | 77.7   | 60.0   | 60.4   | 51.0   | 51.0   | 51.0   | 51.0   | 51.0   |
| ( 730. RAD/SEC)        | 4000   | 52.0   | 47.0   | 67.2   | 70.0   | 74.9   | 73.1   | 75.5   | 77.1   | 67.0   | 59.0   | 50.3   | 50.3   | 50.3   | 50.3   | 50.3   |
| MFA 7152. RPM          | 5000   | 50.5   | 50.5   | 77.4   | 70.2   | 76.9   | 75.0   | 79.0   | 76.2   | 60.0   | 60.0   | 51.0   | 51.0   | 51.0   | 51.0   | 51.0   |
| ( 740. RAD/SEC)        | 6300   | 52.0   | 48.0   | 67.4   | 70.0   | 71.0   | 71.0   | 71.0   | 70.0   | 64.0   | 50.2   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   |
| MFA 6023. RPM          | 8000   | 48.3   | 43.0   | 62.0   | 60.3   | 60.7   | 70.1   | 69.2   | 67.0   | 62.2   | 53.0   | 39.0   | 39.0   | 39.0   | 39.0   | 39.0   |
| ( 624. RAD/SEC)        | 10000  | 44.3   | 42.7   | 60.1   | 64.3   | 69.7   | 67.9   | 68.2   | 60.0   | 60.0   | 50.0   | 30.0   | 30.0   | 30.0   | 30.0   | 30.0   |
| NO. OF BLADES IS 12500 | 12500  | 48.0   | 48.0   | 55.7   | 60.4   | 62.4   | 63.4   | 63.0   | 62.2   | 64.0   | 44.0   | 20.0   | 20.0   | 20.0   | 20.0   | 20.0   |
| FAN TIP SPEED          | 10000  | 39.1   | 36.1   | 40.0   | 52.7   | 54.7   | 50.1   | 50.0   | 50.3   | 47.2   | 30.0   | 13.0   | 13.0   | 13.0   | 13.0   | 13.0   |
| 614. FT/SEC            | 20000  | 29.4   | 31.0   | 42.2   | 47.4   | 48.5   | 50.5   | 50.5   | 49.3   | 46.3   | 27.2   | 27.2   | 27.2   | 27.2   | 27.2   | 27.2   |
|                        | 25000  | 21.0   | 20.2   | 33.1   | 30.0   | 30.0   | 41.4   | 40.7   | 39.1   | 39.1   | 13.0   | 13.0   | 13.0   | 13.0   | 13.0   | 13.0   |
|                        | 31500  | 16.5   | 16.0   | 21.7   | 20.2   | 20.7   | 30.1   | 27.0   | 24.0   | 11.0   | 11.0   | 11.0   | 11.0   | 11.0   | 11.0   | 11.0   |
|                        | 40000  | 12.2   | 12.2   | 11.1   | 12.3   | 11.7   | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    |
|                        | 50000  | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    |
|                        | 63000  | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    |
| OVERALL CALCULATED     | 98.0   | 98.5   | 79.3   | 81.0   | 82.3   | 82.1   | 82.0   | 83.0   | 70.2   | 69.4   | 63.3   | 63.3   | 63.3   | 63.3   | 63.3   | 63.3   |
| PROB                   | 70.0   | 70.3   | 94.0   | 90.4   | 90.0   | 90.0   | 90.0   | 90.0   | 90.0   | 90.2   | 62.0   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MUMIN 3 DAY 11 PM, 1760

MODEL SOUND PRESSURE LEVELS (90, 100, 120, 140, 160, 180, 200) F, 70 PERCENT REL. HUM., DAY

ANGLES FROM INLET IN DEGREES (ANG RADIAN)

|                    | 50    | 60    | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 160  | 170 | 180 | 190 | 200   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|-----|-------|
| VELOCITY           | 50    | 63    |       |       |       |       |       |       |       |       |       |      |     |     |     |       |
| RADIAL 17. FT.     | 100   | 70.5  | 70.2  | 73.7  | 74.0  | 70.5  | 70.2  | 70.9  | 77.0  | 80.1  | 84.0  | 80.3 |     |     |     | 113.1 |
| VEHICLE 1 S. N1    | 125   | 72.5  | 70.2  | 70.4  | 70.8  | 80.3  | 78.5  | 70.7  | 80.0  | 82.0  | 83.2  | 87.0 |     |     |     | 114.0 |
| VEHICLE 2 S. N2    | 150   | 72.7  | 70.2  | 70.2  | 77.6  | 77.0  | 77.7  | 79.9  | 81.9  | 84.3  | 80.9  | 80.3 |     |     |     | 115.0 |
| LOC SCHEMECTAST    | 200   | 73.7  | 70.2  | 75.2  | 77.3  | 79.5  | 81.0  | 81.0  | 83.9  | 85.3  | 87.9  | 89.0 |     |     |     | 116.4 |
| DATE 1/13/75       | 250   | 75.0  | 71.4  | 70.9  | 80.0  | 81.5  | 82.2  | 83.7  | 84.1  | 85.0  | 86.9  | 88.1 |     |     |     | 116.7 |
| RUN 4774           | 315   | 75.2  | 70.2  | 79.9  | 81.3  | 82.0  | 82.7  | 83.7  | 84.0  | 85.0  | 86.9  | 87.0 |     |     |     | 117.0 |
| TAPE               | 400   | 74.5  | 70.2  | 77.9  | 79.1  | 80.5  | 81.2  | 82.0  | 84.1  | 84.0  | 86.2  | 86.1 |     |     |     | 118.0 |
| BAR 20.7 HG        | 500   | 73.0  | 70.2  | 70.7  | 79.9  | 80.0  | 81.0  | 82.9  | 83.0  | 84.1  | 85.4  | 84.0 |     |     |     | 118.3 |
| (80295. 4/42)      | 630   | 74.1  | 70.2  | 70.9  | 81.4  | 82.0  | 84.3  | 85.2  | 85.9  | 86.3  | 88.2  | 84.0 |     |     |     | 117.3 |
| TARD 42. DEG F     | 800   | 74.0  | 70.2  | 79.9  | 81.0  | 82.0  | 84.3  | 85.9  | 87.1  | 88.0  | 85.2  | 84.1 |     |     |     | 117.0 |
| (1270. DEG F)      | 1000  | 74.3  | 70.2  | 80.9  | 81.9  | 82.0  | 84.5  | 85.0  | 86.9  | 87.1  | 84.4  | 82.0 |     |     |     | 117.0 |
| TRIF 30. DEG F     | 1250  | 74.4  | 70.2  | 81.4  | 83.4  | 85.3  | 87.0  | 88.1  | 89.1  | 88.0  | 85.5  | 82.0 |     |     |     | 119.5 |
| (1277. DEG F)      | 1500  | 75.0  | 70.2  | 84.9  | 86.2  | 89.4  | 90.0  | 91.4  | 91.0  | 90.9  | 89.7  | 82.0 |     |     |     | 122.0 |
| MART 8.42 HG/H3    | 2000  | 83.0  | 70.0  | 95.9  | 99.0  | 98.1  | 99.0  | 101.0 | 99.0  | 98.1  | 92.0  | 88.5 |     |     |     | 131.7 |
| (1.00542 HG/H3)    | 2500  | 77.0  | 73.0  | 89.9  | 93.0  | 93.0  | 95.1  | 96.0  | 96.0  | 93.4  | 88.5  | 84.0 |     |     |     | 127.1 |
| NFA 7013. RPM      | 3150  | 77.0  | 72.5  | 89.1  | 93.5  | 95.4  | 96.1  | 97.3  | 97.0  | 95.1  | 89.0  | 85.3 |     |     |     | 126.1 |
| ( 810. RAD/SEC)    | 4000  | 81.0  | 70.0  | 95.0  | 100.3 | 101.1 | 101.3 | 100.0 | 110.0 | 101.0 | 94.7  | 84.7 |     |     |     | 137.0 |
| NFA 7944. RPM      | 5000  | 82.5  | 74.7  | 95.0  | 99.2  | 102.1 | 103.2 | 101.0 | 101.7 | 97.2  | 94.4  | 87.7 |     |     |     | 133.4 |
| ( 832. RAD/SEC)    | 6300  | 89.0  | 80.2  | 102.0 | 107.0 | 111.0 | 111.7 | 105.2 | 107.7 | 104.2 | 101.9 | 82.0 |     |     |     | 141.2 |
| NFA 8073. RPM      | 8000  | 88.7  | 74.0  | 92.0  | 96.4  | 99.2  | 90.4  | 101.2 | 102.2 | 98.0  | 91.0  | 80.0 |     |     |     | 139.7 |
| ( 924. RAD/SEC)    | 10000 | 78.2  | 74.5  | 92.0  | 95.2  | 97.7  | 100.2 | 100.5 | 100.0 | 96.7  | 91.0  | 87.1 |     |     |     | 131.3 |
| NO. OF BLADES IS   | 12500 | 70.9  | 75.9  | 92.1  | 95.2  | 100.1 | 99.4  | 99.0  | 101.0 | 96.5  | 90.4  | 80.1 |     |     |     | 131.0 |
| FAN TIP SPEED      | 14000 | 75.2  | 71.0  | 87.5  | 91.4  | 94.1  | 95.1  | 97.5  | 99.0  | 94.0  | 88.9  | 83.0 |     |     |     | 120.9 |
| 682. FT/SEC        | 20000 | 74.4  | 72.4  | 86.2  | 89.0  | 91.9  | 93.7  | 97.4  | 99.5  | 93.5  | 88.7  | 82.0 |     |     |     | 120.7 |
|                    | 25000 | 74.7  | 74.2  | 84.1  | 87.3  | 90.5  | 93.1  | 95.0  | 96.0  | 93.0  | 88.3  | 80.9 |     |     |     | 120.3 |
|                    | 31500 | 74.1  | 74.0  | 83.0  | 87.3  | 89.0  | 91.7  | 93.1  | 97.1  | 91.0  | 87.1  | 79.0 |     |     |     | 127.3 |
|                    | 40000 | 74.2  | 74.2  | 79.7  | 84.2  | 86.5  | 88.4  | 90.0  | 83.4  | 87.0  | 84.0  | 73.0 |     |     |     | 120.7 |
|                    | 50000 | 70.4  | 70.7  | 70.0  | 80.0  | 82.0  | 85.2  | 87.2  | 89.4  | 84.3  | 82.1  | 70.4 |     |     |     | 124.1 |
|                    | 63000 | 86.1  | 79.3  | 71.0  | 79.4  | 79.5  | 82.2  | 82.1  | 84.1  | 79.0  | 70.7  | 69.7 |     |     |     | 124.1 |
|                    | 80000 | 86.5  | 78.3  | 71.0  | 79.1  | 78.0  | 80.7  | 80.4  | 81.4  | 79.1  | 73.9  | 66.7 |     |     |     | 127.3 |
| OVERALL MEASURED   |       |       |       |       |       |       |       |       |       |       |       |      |     |     |     |       |
| OVERALL CALCULATED | 95.2  | 89.1  | 100.0 | 110.2 | 113.0 | 113.0 | 113.0 | 114.0 | 109.3 | 108.9 | 101.0 |      |     |     |     | 140.8 |
| PNSU               | 107.0 | 100.4 | 110.0 | 123.5 | 126.2 | 127.0 | 126.0 | 128.0 | 122.3 | 119.0 | 115.0 |      |     |     |     |       |

MODEL SOUND PRESSURE LEVELS (90. DEC. F, 73 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND HALLANGS)

|                   | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0. | 0. | 0. | 0. |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|
| FREQ.             | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.  | 0. | 0. | 0. | 0. |
| SIDELINE 200. FT. | 50     | 53     | 56     | 59     | 62     | 65     | 68     | 71     | 74     | 77     | 80     | 83   | 86 | 89 | 92 | 95 |
| ( 60.00 Hz)       | 100    | 47.5   | 47.9   | 51.0   | 53.3   | 54.9   | 54.2   | 54.2   | 53.0   | 54.0   | 57.2   | 56.9 |    |    |    |    |
| VEHICLE R-55      | 125    | 49.4   | 47.9   | 50.0   | 57.2   | 58.5   | 58.4   | 55.9   | 56.8   | 57.1   | 57.4   | 56.8 |    |    |    |    |
| CONFIG 247.32     | 150    | 49.5   | 47.8   | 54.3   | 55.9   | 56.8   | 56.5   | 57.1   | 57.9   | 58.0   | 58.0   | 58.0 |    |    |    |    |
| LOC SCHEMATIC     | 200    | 50.4   | 47.7   | 53.2   | 55.5   | 57.0   | 56.7   | 59.8   | 59.0   | 59.0   | 59.0   | 59.5 |    |    |    |    |
| DATE 1/13/75      | 250    | 51.0   | 48.8   | 50.8   | 58.7   | 59.5   | 59.9   | 60.0   | 59.9   | 59.0   | 59.0   | 59.0 |    |    |    |    |
| RUN 4774          | 310    | 51.7   | 47.5   | 57.7   | 59.4   | 60.7   | 60.3   | 60.5   | 60.3   | 60.0   | 59.5   | 59.0 |    |    |    |    |
| TAPE              | 400    | 50.9   | 47.4   | 55.7   | 57.8   | 58.4   | 58.7   | 59.7   | 59.2   | 58.8   | 57.9   | 53.2 |    |    |    |    |
| SAR 20.7 MG       | 500    | 49.3   | 47.3   | 54.3   | 56.7   | 58.0   | 58.4   | 59.0   | 58.9   | 57.9   | 58.0   | 51.7 |    |    |    |    |
| (90295. Hz)       | 630    | 50.2   | 47.2   | 50.5   | 59.1   | 60.5   | 61.5   | 61.7   | 61.2   | 60.0   | 57.2   | 51.1 |    |    |    |    |
| TARD 43. DEC F    | 800    | 50.0   | 47.1   | 57.3   | 58.5   | 60.4   | 61.4   | 62.3   | 62.3   | 60.0   | 55.9   | 54.3 |    |    |    |    |
| (278. DEC F)      | 1000   | 50.2   | 47.0   | 58.2   | 59.4   | 60.2   | 61.0   | 62.2   | 61.9   | 60.3   | 54.9   | 48.4 |    |    |    |    |
| TACT 39. DEC F    | 1200   | 50.1   | 46.8   | 50.0   | 60.0   | 62.0   | 63.9   | 64.3   | 64.0   | 61.0   | 55.7   | 48.0 |    |    |    |    |
| (277. DEC F)      | 1600   | 51.1   | 46.7   | 61.9   | 60.4   | 66.5   | 67.5   | 67.4   | 66.3   | 63.4   | 58.0   | 47.8 |    |    |    |    |
| NACT 8.42 CM/MS   | 2000   | 50.9   | 52.3   | 72.7   | 73.0   | 75.1   | 76.3   | 77.3   | 74.0   | 70.0   | 62.0   | 52.7 |    |    |    |    |
| (.00542 CM/MS)    | 2500   | 52.7   | 48.0   | 66.5   | 70.0   | 70.7   | 71.4   | 72.1   | 69.0   | 60.0   | 57.4   | 48.7 |    |    |    |    |
| RFA 7013. RPM     | 3150   | 52.0   | 48.3   | 65.5   | 70.1   | 71.9   | 72.1   | 72.5   | 71.4   | 60.9   | 58.4   | 49.3 |    |    |    |    |
| ( 810. RAB/SEC)   | 4000   | 50.1   | 53.3   | 71.7   | 70.5   | 77.2   | 76.9   | 63.5   | 63.0   | 72.2   | 64.5   | 58.0 |    |    |    |    |
| RFA 7944. RPM     | 5000   | 50.5   | 49.7   | 70.7   | 73.2   | 77.9   | 78.0   | 78.4   | 74.0   | 68.0   | 61.7   | 48.0 |    |    |    |    |
| ( 832. RAB/SEC)   | 6300   | 63.0   | 54.5   | 74.0   | 82.0   | 86.1   | 86.3   | 78.9   | 78.0   | 78.9   | 67.2   | 51.8 |    |    |    |    |
| RFA 8023. RPM     | 8000   | 52.5   | 48.0   | 65.0   | 70.5   | 73.2   | 71.9   | 73.7   | 72.9   | 63.9   | 59.3   | 52.4 |    |    |    |    |
| ( 924. RAB/SEC)   | 10000  | 49.3   | 46.0   | 65.1   | 67.0   | 70.2   | 72.1   | 71.0   | 69.2   | 62.4   | 52.2   | 38.3 |    |    |    |    |
| NO. OF BLADES 15  | 12500  | 46.4   | 45.0   | 62.2   | 65.7   | 70.4   | 68.9   | 67.0   | 67.4   | 60.7   | 48.5   | 38.7 |    |    |    |    |
| PM TIP SPEED      | 16000  | 38.3   | 37.1   | 53.0   | 50.2   | 60.7   | 60.0   | 61.3   | 60.0   | 50.0   | 37.0   | 27.0 |    |    |    |    |
| 682. FT/SEC       | 20000  | 31.0   | 32.5   | 47.7   | 51.9   | 53.0   | 54.5   | 50.0   | 54.5   | 42.7   | 29.0   | 20.2 |    |    |    |    |
|                   | 25000  | 24.1   | 26.0   | 38.4   | 43.0   | 45.3   | 46.2   | 46.4   | 44.0   | 32.3   | 22.2   |      |    |    |    |    |
|                   | 31500  | 11.7   | 10.0   | 27.4   | 32.7   | 34.0   | 34.0   | 32.5   | 30.4   | 14.0   |        |      |    |    |    |    |
|                   | 40000  |        | 0.2    | 9.0    | 14.0   | 16.0   | 16.0   | 13.2   | 7.3    |        |        |      |    |    |    |    |
|                   | 50000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |
|                   | 63000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |
|                   | 80000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |
| Overall Calcn ATC |        | 67.0   | 62.5   | 69.7   | 68.5   | 68.1   | 68.1   | 68.9   | 68.7   | 70.3   | 73.2   | 66.4 |    |    |    |    |
| FROM              |        | 81.5   | 78.7   | 84.4   | 89.3   | 101.0  | 102.1  | 101.0  | 101.4  | 93.1   | 88.0   | 78.3 |    |    |    |    |

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02

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DATA  
 PROC. DATE = MONTH 3 DAY 21 PM 12.0  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.    | 0. | 0. | 0. | 0. | 0. | PaL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|----|----|----|----|----|-------|
|                    | (1.02) | (1.10) | (1.30) | (1.53) | (1.71) | (1.80) | (2.00) | (2.24) | (2.42) | (2.60) | (2.70) | 0.    | 0. | 0. | 0. | 0. | 0. | PaL   |
| RADIAL 17. FT.     | 100    | 79.7   | 79.2   | 73.9   | 74.0   | 70.0   | 70.7   | 70.9   | 70.2   | 90.2   | 88.4   | 87.0  |    |    |    |    |    | 113.0 |
| VEHICLE 1 50 RPM   | 120    | 70.7   | 70.2   | 77.0   | 70.0   | 80.0   | 70.5   | 70.7   | 81.0   | 82.0   | 80.7   | 80.3  |    |    |    |    |    | 119.0 |
| CONFIG 10022       | 100    | 80.0   | 70.2   | 75.9   | 77.1   | 77.3   | 80.0   | 80.2   | 81.9   | 84.0   | 80.9   | 80.3  |    |    |    |    |    | 119.0 |
| LOC SCHEMECTABY    | 200    | 82.0   | 70.9   | 73.4   | 77.1   | 79.0   | 82.2   | 81.7   | 83.0   | 80.1   | 80.2   | 80.3  |    |    |    |    |    | 110.7 |
| DATE 1/13/75       | 250    | 83.2   | 71.7   | 70.9   | 80.0   | 81.5   | 82.0   | 84.7   | 84.4   | 80.1   | 87.7   | 80.3  |    |    |    |    |    | 117.2 |
| RUN 07/5           | 315    | 75.7   | 70.2   | 79.7   | 81.1   | 81.0   | 80.5   | 83.2   | 84.1   | 80.1   | 87.2   | 87.0  |    |    |    |    |    | 117.3 |
| TAPE               | 400    | 74.5   | 70.2   | 77.7   | 79.1   | 80.3   | 83.2   | 82.7   | 83.9   | 84.0   | 80.7   | 80.3  |    |    |    |    |    | 119.9 |
| BAR 20.7 HG        | 500    | 70.0   | 70.2   | 70.7   | 70.9   | 80.0   | 83.0   | 82.9   | 83.4   | 84.1   | 80.2   | 84.0  |    |    |    |    |    | 119.0 |
| (00275. 4/M21)     | 630    | 80.3   | 70.2   | 70.0   | 81.1   | 82.0   | 83.0   | 84.9   | 85.9   | 80.0   | 80.0   | 84.0  |    |    |    |    |    | 117.0 |
| TAND 43. DEG F     | 800    | 74.0   | 70.2   | 70.7   | 81.0   | 82.0   | 83.5   | 85.9   | 86.0   | 80.0   | 80.2   | 84.1  |    |    |    |    |    | 117.5 |
| (1270. DEG K)      | 1000   | 80.1   | 70.2   | 80.9   | 81.9   | 82.0   | 84.0   | 80.1   | 87.1   | 80.0   | 84.9   | 82.0  |    |    |    |    |    | 110.7 |
| TWET 39. DEG F     | 1200   | 80.0   | 70.2   | 81.2   | 84.4   | 85.4   | 86.0   | 80.1   | 89.1   | 80.0   | 84.7   | 82.0  |    |    |    |    |    | 119.0 |
| (1277. DEG K)      | 1400   | 80.0   | 70.2   | 84.0   | 87.7   | 89.4   | 91.1   | 91.0   | 91.0   | 90.9   | 80.5   | 83.0  |    |    |    |    |    | 123.2 |
| HACT 8.12 CM/MS    | 2000   | 91.1   | 75.5   | 80.4   | 87.5   | 80.1   | 100.1  | 101.0  | 99.9   | 90.4   | 93.0   | 80.1  |    |    |    |    |    | 131.0 |
| (.00312 CM/MS)     | 2500   | 81.9   | 72.0   | 80.7   | 83.3   | 83.7   | 94.0   | 90.9   | 90.1   | 93.1   | 80.3   | 84.0  |    |    |    |    |    | 127.0 |
| MFA 7811 RPM       | 3150   | 85.9   | 72.5   | 80.1   | 84.1   | 85.4   | 94.1   | 97.0   | 90.1   | 94.4   | 80.3   | 80.3  |    |    |    |    |    | 120.3 |
| (RAD/SEC)          | 4000   | 80.3   | 70.5   | 85.0   | 100.5  | 100.0  | 101.5  | 109.0  | 110.5  | 100.1  | 90.2   | 94.0  |    |    |    |    |    | 137.0 |
| MFA RPM            | 5000   | 80.0   | 75.0   | 84.0   | 99.0   | 102.0  | 103.2  | 101.2  | 101.7  | 97.3   | 93.9   | 87.7  |    |    |    |    |    | 130.0 |
| (RAD/SEC)          | 6300   | 80.0   | 70.9   | 101.0  | 107.1  | 111.3  | 112.2  | 105.7  | 107.0  | 104.2  | 101.2  | 93.0  |    |    |    |    |    | 141.4 |
| MFB 8023. RPM      | 8000   | 81.2   | 74.2   | 81.0   | 80.0   | 80.4   | 80.4   | 100.0  | 102.2  | 90.2   | 91.4   | 80.7  |    |    |    |    |    | 131.0 |
| (824. RAD/SEC)     | 10000  | 70.2   | 74.0   | 82.3   | 87.7   | 87.3   | 100.0  | 99.0   | 100.5  | 90.5   | 91.9   | 87.3  |    |    |    |    |    | 131.2 |
| NO. OF BLADES 15   | 12500  | 70.2   | 75.0   | 81.9   | 84.0   | 80.9   | 99.7   | 100.4  | 101.0  | 90.0   | 91.1   | 80.9  |    |    |    |    |    | 131.0 |
| FAN TIP SPEED      | 14000  | 75.2   | 72.2   | 80.0   | 81.4   | 84.1   | 93.0   | 90.0   | 100.4  | 93.0   | 87.7   | 83.9  |    |    |    |    |    | 129.4 |
| (FT/SEC)           | 20000  | 74.2   | 72.5   | 80.5   | 80.3   | 81.7   | 84.3   | 87.0   | 99.0   | 83.3   | 87.4   | 82.3  |    |    |    |    |    | 120.0 |
|                    | 25000  | 74.5   | 74.3   | 83.9   | 80.1   | 80.9   | 83.4   | 83.9   | 90.4   | 83.0   | 81.7   | 81.3  |    |    |    |    |    | 120.0 |
|                    | 31500  | 74.1   | 74.3   | 82.0   | 87.1   | 80.0   | 81.7   | 83.0   | 87.0   | 81.2   | 80.9   | 70.0  |    |    |    |    |    | 127.0 |
|                    | 40000  | 74.7   | 74.5   | 79.0   | 84.2   | 80.3   | 80.5   | 80.0   | 84.0   | 87.9   | 80.7   | 74.0  |    |    |    |    |    | 120.0 |
|                    | 50000  | 70.0   | 75.0   | 70.0   | 81.5   | 82.5   | 83.4   | 87.7   | 91.4   | 84.2   | 80.1   | 70.2  |    |    |    |    |    | 120.1 |
|                    | 63000  | 80.5   | 70.7   | 71.0   | 80.0   | 79.1   | 82.0   | 82.2   | 85.0   | 79.9   | 81.0   | 80.0  |    |    |    |    |    | 124.0 |
|                    | 80000  | 80.5   | 77.0   | 70.3   | 79.3   | 70.0   | 81.0   | 80.2   | 82.2   | 70.9   | 70.0   | 80.0  |    |    |    |    |    | 127.4 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |       |    |    |    |    |    |       |
| OVERALL CALCULATED |        | 90.4   | 80.9   | 100.2  | 109.9  | 113.2  | 114.2  | 113.3  | 114.7  | 100.1  | 100.7  | 101.0 |    |    |    |    |    | 140.4 |
| PaSu               |        | 112.0  | 100.4  | 110.5  | 120.2  | 120.3  | 127.4  | 120.9  | 120.1  | 122.2  | 119.1  | 119.2 |    |    |    |    |    |       |

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MODEL SOUND PRESSURE LEVELS (90, 100, 110, 120, 130, 140, 150 PERCENT REL. HUM. DATA)

ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                    | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
| FREQ.              | (1.02) | (1.10) | (1.30) | (1.53) | (1.71) | (1.80) | (2.00) | (2.20) | (2.42) | (2.60) | (2.70) | 10.  | 110. | 110. | 110. | 110. | 110. |
| SIDELINE 200 FT.   | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50   | 50   | 50   | 50   | 50   | 50   |
| (10000 RPM)        | 100    | 30.7   | 47.9   | 52.2   | 53.0   | 54.4   | 56.7   | 54.2   | 53.1   | 55.0   | 57.0   | 50.4 |      |      |      |      |      |
| VEHICLE 0-00       | 120    | 35.0   | 47.0   | 50.1   | 50.0   | 50.3   | 57.4   | 55.0   | 57.3   | 57.0   | 57.1   | 57.0 |      |      |      |      |      |
| CONFIG 100-22      | 100    | 30.0   | 47.0   | 51.0   | 50.4   | 50.3   | 57.0   | 57.3   | 57.0   | 59.0   | 59.0   | 50.0 |      |      |      |      |      |
| LOC SCHEMECTAB     | 200    | 30.7   | 40.4   | 53.4   | 50.3   | 57.1   | 60.0   | 56.7   | 50.3   | 50.4   | 50.4   | 50.2 |      |      |      |      |      |
| DATE 1/13/75       | 250    | 30.0   | 40.1   | 50.0   | 50.7   | 50.3   | 50.0   | 50.0   | 50.2   | 50.3   | 50.4   | 50.2 |      |      |      |      |      |
| RUN 47/0           | 315    | 52.2   | 47.3   | 57.0   | 50.1   | 50.7   | 54.0   | 50.0   | 50.0   | 50.1   | 50.7   | 50.0 |      |      |      |      |      |
| TAPE               | 400    | 50.0   | 47.4   | 50.4   | 57.0   | 50.1   | 50.7   | 50.4   | 50.0   | 50.2   | 57.1   | 50.2 |      |      |      |      |      |
| SAR 20.7 MS        | 500    | 54.3   | 47.3   | 54.3   | 50.7   | 57.0   | 50.4   | 50.0   | 50.0   | 57.0   | 50.4   | 51.4 |      |      |      |      |      |
| (00205, N/MS)      | 630    | 50.5   | 47.2   | 50.5   | 50.0   | 50.5   | 51.0   | 51.4   | 51.2   | 50.4   | 57.4   | 51.4 |      |      |      |      |      |
| TARD 43. DEG F     | 600    | 50.0   | 47.1   | 57.1   | 50.3   | 50.4   | 50.7   | 52.3   | 51.0   | 50.3   | 50.0   | 50.3 |      |      |      |      |      |
| 1270. DEG N        | 1000   | 50.0   | 47.0   | 50.2   | 50.4   | 50.2   | 51.0   | 52.4   | 52.2   | 50.0   | 50.4   | 50.0 |      |      |      |      |      |
| TWEY 30. DEG F     | 1200   | 50.3   | 40.0   | 50.3   | 50.0   | 52.0   | 53.7   | 54.3   | 54.0   | 51.0   | 54.0   | 50.3 |      |      |      |      |      |
| 1277. DEG N        | 1400   | 50.1   | 40.7   | 51.0   | 54.0   | 50.0   | 57.0   | 57.0   | 50.3   | 53.4   | 55.4   | 50.0 |      |      |      |      |      |
| NACT 3-12 CM/MS    | 2000   | 50.4   | 51.0   | 72.2   | 74.3   | 75.1   | 70.0   | 77.3   | 74.3   | 70.0   | 62.0   | 52.0 |      |      |      |      |      |
| (1.00012 CM/MS)    | 2500   | 57.0   | 40.0   | 50.3   | 70.1   | 70.4   | 70.0   | 72.4   | 70.3   | 50.0   | 57.0   | 50.0 |      |      |      |      |      |
| NFA TCM RPM        | 3150   | 50.0   | 40.3   | 50.5   | 50.0   | 71.0   | 72.1   | 72.0   | 72.1   | 50.2   | 57.0   | 50.3 |      |      |      |      |      |
| RAD/SEC            | 4000   | 54.0   | 53.0   | 71.0   | 70.7   | 77.0   | 77.2   | 53.7   | 53.0   | 71.2   | 54.0   | 50.0 |      |      |      |      |      |
| RPM                | 5000   | 52.0   | 50.0   | 70.0   | 70.0   | 70.0   | 70.0   | 70.7   | 50.0   | 51.2   | 50.0   | 50.0 |      |      |      |      |      |
| RAD/SEC            | 6300   | 53.7   | 53.3   | 70.0   | 52.4   | 50.4   | 50.0   | 70.4   | 70.0   | 73.0   | 57.0   | 52.0 |      |      |      |      |      |
| RPM                | 8000   | 53.1   | 47.3   | 50.0   | 50.0   | 73.0   | 71.0   | 73.2   | 72.0   | 50.2   | 50.0   | 43.4 |      |      |      |      |      |
| (020, RAD/SEC)     | 10000  | 48.3   | 45.3   | 50.0   | 50.4   | 50.0   | 71.0   | 70.0   | 50.2   | 52.0   | 52.0   | 50.0 |      |      |      |      |      |
| NO. OF BLADES 10   | 12500  | 43.7   | 44.1   | 52.0   | 50.2   | 50.2   | 50.0   | 57.0   | 50.7   | 47.3   | 50.0   | 50.0 |      |      |      |      |      |
| PER TIP SPEED      | 15000  | 30.4   | 37.4   | 53.2   | 50.3   | 50.0   | 51.4   | 52.1   | 51.0   | 50.2   | 50.0   | 17.7 |      |      |      |      |      |
| FT/SEC             | 20000  | 31.7   | 32.0   | 47.0   | 51.5   | 53.0   | 50.0   | 50.4   | 54.0   | 42.0   | 50.3   | 1.0  |      |      |      |      |      |
| 25000              | 23.0   | 27.0   | 30.0   | 40.0   | 40.0   | 47.0   | 50.0   | 50.0   | 51.0   | 10.0   |        |      |      |      |      |      |      |
| 31500              | 11.7   | 10.2   | 20.0   | 32.0   | 34.0   | 34.0   | 33.3   | 30.0   | 30.4   |        |        |      |      |      |      |      |      |
| 40000              |        |        | 0.5    | 0.3    | 10.0   | 10.0   | 13.0   | 0.0    |        |        |        |      |      |      |      |      |      |
| 50000              |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| 63000              |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| 80000              |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| OVERALL CALC. TYPE | 73.7   | 62.4   | 62.4   | 67.2   | 60.3   | 60.7   | 67.1   | 60.7   | 70.1   | 73.0   | 60.4   |      |      |      |      |      |      |
| PHAS               | 50.0   | 75.0   | 54.1   | 50.0   | 101.0  | 102.5  | 101.0  | 101.5  | 62.0   | 60.5   | 70.0   |      |      |      |      |      |      |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 3 DAY 11 HR. 17.4

MODEL SOUND PRESSURE LEVELS (50, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 5A.    | 6A.    | 7A.    | 8A.    | 9A.    | 10A.   | 11A.   | 12A.   | 13A.   | 14A.   | 15A.   | 0.    | 0.   | 0.   | 0.   | 0.   | 0.   | PWL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|------|------|------|-------|
| FREQ:              | (1.02) | (1.19) | (1.36) | (1.53) | (1.71) | (1.88) | (2.06) | (2.24) | (2.42) | (2.60) | (2.78) | (0.   | (10. | (10. | (10. | (10. | (10. |       |
| 50                 |        |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
| 63                 |        |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
| RADIAL 17, FT.     | 60     |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
| ( S. M.)           | 100    | 60.5   | 60.3   | 63.9   | 75.1   | 75.6   | 75.3   | 73.4   | 69.2   | 71.7   | 73.2   | 73.7  | 75.6 |      |      |      |      | 110.7 |
| VEHICLE R-85       | 125    | 60.6   | 60.3   | 79.9   | 69.6   | 74.6   | 68.3   | 68.7   | 71.2   | 73.2   | 73.7   | 75.6  |      |      |      |      |      | 107.3 |
| CONFIG 4R.22       | 150    | 60.5   | 60.3   | 75.4   | 67.6   | 67.5   | 67.6   | 76.2   | 70.9   | 72.7   | 75.7   | 76.3  |      |      |      |      |      | 108.3 |
| LOC SCHEMECTADY    | 200    | 60.5   | 60.2   | 75.4   | 69.6   | 70.0   | 71.0   | 72.4   | 74.2   | 75.4   | 77.7   | 79.6  |      |      |      |      |      | 107.1 |
| DATE 1/13/75       | 250    | 61.0   | 60.2   | 78.9   | 71.1   | 71.5   | 72.0   | 73.4   | 73.7   | 74.2   | 75.9   | 75.8  |      |      |      |      |      | 107.7 |
| RUN 47/A           | 315    | 60.5   | 60.2   | 60.2   | 72.4   | 72.5   | 73.0   | 73.4   | 74.2   | 74.4   | 75.7   | 75.6  |      |      |      |      |      | 106.4 |
| TAPE               | 400    | 60.6   | 60.2   | 79.2   | 71.1   | 71.6   | 72.3   | 73.4   | 74.4   | 75.4   | 75.2   | 73.6  |      |      |      |      |      | 107.9 |
| BAR 29.7 HG        | 500    | 60.6   | 60.3   | 79.9   | 69.9   | 71.1   | 72.0   | 73.4   | 73.9   | 74.2   | 75.2   | 73.6  |      |      |      |      |      | 106.6 |
| (90295, N/M2)      | 630    | 60.6   | 60.3   | 79.9   | 72.4   | 74.3   | 75.6   | 76.2   | 76.9   | 77.9   | 79.2   | 74.6  |      |      |      |      |      | 104.8 |
| TAMB 43, DEG F     | 600    | 60.6   | 60.3   | 81.2   | 73.9   | 74.8   | 75.4   | 77.7   | 78.9   | 78.9   | 77.4   | 74.6  |      |      |      |      |      | 110.8 |
| (279, DEG N)       | 1000   | 60.6   | 60.2   | 82.7   | 74.4   | 75.3   | 77.1   | 78.2   | 79.7   | 80.4   | 79.4   | 73.1  |      |      |      |      |      | 111.9 |
| TWET 39, DEG F     | 1250   | 61.1   | 62.3   | 86.7   | 82.0   | 84.6   | 86.6   | 86.7   | 88.7   | 88.9   | 86.2   | 85.9  |      |      |      |      |      | 120.1 |
| (277, DEG N)       | 1600   | 60.6   | 61.6   | 87.4   | 81.3   | 83.4   | 85.4   | 86.4   | 88.9   | 86.7   | 83.0   | 77.1  |      |      |      |      |      | 118.4 |
| MACT 9.12 GM/M3    | 2000   | 60.7   | 62.1   | 87.9   | 81.0   | 83.9   | 85.4   | 85.9   | 85.7   | 85.2   | 81.9   | 76.6  |      |      |      |      |      | 116.1 |
| (.00812, KG/M3)    | 2500   | 64.4   | 67.1   | 96.4   | 89.1   | 89.2   | 93.9   | 99.1   | 97.4   | 94.4   | 87.6   | 82.6  |      |      |      |      |      | 128.0 |
| NFA 947R, RPM      | 3150   | 61.6   | 63.6   | 92.4   | 85.6   | 87.4   | 90.9   | 94.4   | 92.9   | 91.7   | 85.3   | 81.3  |      |      |      |      |      | 124.1 |
| ( 373, RAD/SEC)    | 4000   | 63.1   | 66.7   | 94.6   | 85.8   | 90.7   | 90.8   | 95.3   | 96.0   | 93.1   | 87.0   | 82.6  |      |      |      |      |      | 129.9 |
| NFK 9541, RPM      | 5000   | 60.5   | 63.4   | 91.3   | 85.8   | 90.4   | 86.5   | 91.7   | 91.5   | 90.6   | 84.9   | 79.2  |      |      |      |      |      | 123.0 |
| ( 592, RAD/SEC)    | 6300   | 60.6   | 62.6   | 91.6   | 85.2   | 88.3   | 88.3   | 90.2   | 91.6   | 91.3   | 85.2   | 79.5  |      |      |      |      |      | 122.4 |
| NFD 6827, RPM      | 8000   | 60.7   | 61.5   | 86.0   | 83.2   | 84.7   | 86.7   | 86.0   | 89.5   | 89.5   | 83.9   | 77.4  |      |      |      |      |      | 120.9 |
| ( 924, RAD/SEC)    | 10000  | 61.0   | 61.3   | 86.6   | 81.8   | 83.3   | 84.3   | 86.6   | 89.0   | 88.6   | 84.9   | 77.1  |      |      |      |      |      | 120.0 |
| NO. OF BLADES 15   | 12500  | 61.2   | 61.5   | 85.9   | 79.8   | 82.2   | 85.0   | 86.4   | 86.9   | 87.6   | 85.3   | 75.1  |      |      |      |      |      | 119.2 |
| FAN TIP SPEED 1600 | 16000  | 61.5   | 60.7   | 81.5   | 79.0   | 79.9   | 81.7   | 83.3   | 87.5   | 84.9   | 86.2   | 72.9  |      |      |      |      |      | 117.2 |
| 470, FT/SEC        | 20000  | 62.0   | 61.6   | 80.5   | 75.4   | 77.6   | 79.6   | 82.3   | 87.6   | 84.1   | 85.6   | 71.7  |      |      |      |      |      | 117.0 |
|                    | 25000  | 62.0   | 64.4   | 77.9   | 72.9   | 76.4   | 76.0   | 79.7   | 86.5   | 81.8   | 84.5   | 69.0  |      |      |      |      |      | 116.0 |
|                    | 31500  | 62.4   | 65.1   | 76.7   | 72.6   | 75.2   | 77.5   | 78.6   | 84.9   | 80.3   | 80.9   | 67.5  |      |      |      |      |      | 115.3 |
|                    | 40000  | 63.5   | 65.1   | 74.6   | 70.0   | 72.5   | 74.7   | 75.9   | 81.8   | 77.5   | 74.9   | 65.0  |      |      |      |      |      | 113.5 |
|                    | 50000  | 66.6   | 67.2   | 72.5   | 69.9   | 69.6   | 72.4   | 73.2   | 77.4   | 72.6   | 74.1   | 65.7  |      |      |      |      |      | 112.9 |
|                    | 63000  | 76.6   | 66.5   | 71.1   | 70.3   | 68.6   | 72.2   | 69.5   | 74.8   | 68.9   | 72.9   | 66.9  |      |      |      |      |      | 114.0 |
|                    | 80000  | 75.5   | 68.1   | 72.1   | 69.9   | 66.6   | 71.0   | 70.2   | 71.7   | 69.0   | 71.7   | 69.6  |      |      |      |      |      | 116.0 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
| OVERALL CALCULATED |        | 80.7   | 76.5   | 102.2  | 95.4   | 97.9   | 99.7   | 103.2  | 103.2  | 101.4  | 97.4   | 91.7  |      |      |      |      |      | 134.1 |
| PNDP               |        | 57.2   | 59.9   | 119.1  | 109.0  | 111.4  | 113.2  | 117.1  | 116.2  | 114.5  | 109.4  | 104.9 |      |      |      |      |      |       |

MORPL SOUND PRESSURE LEVELS (80. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 5A     | 6A     | 7A     | 8A     | 9A     | 10A    | 11A    | 12A    | 13A    | 14A    | 15A    | 0.     | 0.     | 0.     | 0.     | 0.     | 0.     |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PRCG.              | (1.02) | (1.19) | (1.32) | (1.43) | (1.51) | (1.57) | (1.62) | (1.66) | (1.70) | (1.73) | (1.75) | (1.77) | (1.78) | (1.79) | (1.80) | (1.81) | (1.82) |
| SIDELINE 200. FT.  | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| ( 02.94 M)         | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| VEHICLE N-95       | 12.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| CONFIG 19R/32      | 15.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| LOC SEMI-RECTANG   | 20.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| DATE 1/13/75       | 25.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| RUN 47/A           | 31.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| TAPE               | 40.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| BAR 29.7 HG        | 50.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| 100295. V/M21      | 60.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| TACH 43. DEG F     | 70.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| (279. DEG A)       | 100.0  | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| TACH 39. DEG F     | 120.0  | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| (277. DEG A)       | 150.0  | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| HACH 5.12 G/H3     | 200.0  | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| (.00512 KG/MS)     | 250.0  | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| NFA 5475. RPM      | 310.0  | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| ( 573. RAD/SEC)    | 400.0  | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| NFR 5541. RPM      | 500.0  | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| ( 592. RAD/SEC)    | 600.0  | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| NFU 6023. RPM      | 800.0  | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| ( 924. RAD/SEC)    | 1000.0 | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| NO. OF BLADES 15   | 1200.0 | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| FAN TIP SPEED      | 1800.0 | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| 476. FT/SEC.       | 2500.0 | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
|                    | 3100.0 | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
|                    | 4000.0 | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
|                    | 5000.0 | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
|                    | 6000.0 | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |
| OVERALL CALCULATED | 49.2   | 52.1   | 70.3   | 71.5   | 73.0   | 75.2   | 78.1   | 76.1   | 72.6   | 66.5   | 56.3   |        |        |        |        |        |        |
| PMP                | 51.3   | 45.4   | 72.0   | 65.0   | 67.0   | 69.3   | 92.3   | 90.1   | 86.3   | 77.0   | 69.1   |        |        |        |        |        |        |

ORIGINAL PAGE IS OF POOR QUALITY

PHYS. DATE = MONTH 3 AT 10 HR. 9.9  
 AIRLINES FROM INLET TO BLADES (ARE MAGNIFIED)

|                     | 50    | 60   | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 160   | 170 | 180 | 190 | 200   |
|---------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|
| RADIAL 17. FT.      | 50    | 60   | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 160   | 170 | 180 | 190 | 200   |
| VEHICLE             | 100   | 67.5 | 69.5  | 73.4  | 74.1  | 73.5  | 74.3  | 71.7  | 67.9  | 70.9  | 75.2  | 77.6  |     |     |     | 100.0 |
| CONFIG              | 100   | 66.5 | 67.6  | 70.7  | 67.6  | 71.5  | 66.3  | 68.2  | 70.4  | 72.7  | 73.9  | 75.8  |     |     |     | 104.0 |
| LCC                 | 100   | 64.0 | 66.3  | 65.7  | 66.9  | 66.4  | 66.3  | 70.2  | 71.7  | 73.2  | 75.4  | 76.0  |     |     |     | 104.2 |
| DATE 1/11/75        | 250   | 66.4 | 68.2  | 69.7  | 70.3  | 70.9  | 72.0  | 73.4  | 73.2  | 74.2  | 74.4  | 76.1  |     |     |     | 106.9 |
| RM 4P/4             | 315   | 67.5 | 69.5  | 71.4  | 70.6  | 72.5  | 73.5  | 73.2  | 73.9  | 74.4  | 76.2  | 75.8  |     |     |     | 107.0 |
| TYPE                | 400   | 65.6 | 69.3  | 70.2  | 70.9  | 71.5  | 72.3  | 72.9  | 73.7  | 75.2  | 75.2  | 76.6  |     |     |     | 106.3 |
| BAF 29.4 MG         | 500   | 65.4 | 67.3  | 68.2  | 69.7  | 70.6  | 72.3  | 73.7  | 73.9  | 74.2  | 74.4  | 73.8  |     |     |     | 105.8 |
| (99823-142)         | 630   | 67.6 | 69.0  | 70.9  | 70.7  | 73.6  | 75.0  | 76.7  | 76.4  | 78.4  | 77.7  | 74.6  |     |     |     | 108.0 |
| TAL 67. DEG F       | 800   | 67.6 | 70.5  | 72.4  | 74.2  | 74.3  | 71.6  | 76.9  | 76.2  | 78.7  | 77.4  | 73.8  |     |     |     | 109.5 |
| (1201-125 X)        | 1000  | 69.0 | 71.7  | 73.7  | 74.9  | 74.8  | 77.1  | 76.4  | 79.2  | 80.4  | 76.9  | 73.8  |     |     |     | 110.0 |
| T-ET 40. DEG F      | 1250  | 74.1 | 77.5  | 79.4  | 81.2  | 84.1  | 84.3  | 88.2  | 88.4  | 88.2  | 89.5  | 80.0  |     |     |     | 119.0 |
| (1210-125 X)        | 1400  | 72.6 | 77.0  | 77.2  | 81.1  | 83.1  | 84.9  | 86.6  | 86.4  | 86.2  | 82.7  | 77.6  |     |     |     | 117.4 |
| HACT 6.09 MAG/SEC   | 2000  | 72.4 | 76.0  | 78.2  | 81.4  | 82.9  | 84.9  | 85.9  | 85.4  | 84.9  | 81.0  | 75.8  |     |     |     | 118.0 |
| (100569 MAG/SEC)    | 2500  | 75.9 | 81.1  | 84.1  | 87.4  | 81.4  | 94.0  | 91.4  | 93.1  | 94.2  | 87.7  | 81.3  |     |     |     | 124.0 |
| NFA 5279. RPM       | 3150  | 73.9 | 79.3  | 81.9  | 85.3  | 88.4  | 91.3  | 90.3  | 91.1  | 91.4  | 85.0  | 80.0  |     |     |     | 122.2 |
| (574. RPM/SEC)      | 4000  | 75.5 | 81.5  | 82.6  | 87.0  | 91.1  | 91.0  | 95.7  | 91.7  | 91.6  | 85.7  | 83.2  |     |     |     | 124.4 |
| NFM 5544. RPM       | 5000  | 74.0 | 79.0  | 82.2  | 85.3  | 86.1  | 91.5  | 92.9  | 90.9  | 89.5  | 83.9  | 79.4  |     |     |     | 122.3 |
| (580. RPM/SEC)      | 6300  | 72.5 | 77.3  | 81.7  | 84.6  | 85.2  | 90.2  | 93.4  | 90.2  | 90.0  | 84.3  | 79.5  |     |     |     | 121.4 |
| NFI 8643. RPM       | 8000  | 68.9 | 74.2  | 77.7  | 80.3  | 83.4  | 87.9  | 87.2  | 86.4  | 88.1  | 82.5  | 77.6  |     |     |     | 116.6 |
| (924. RPM/SEC)      | 10000 | 67.4 | 73.2  | 75.9  | 81.1  | 83.1  | 85.9  | 86.0  | 87.7  | 88.0  | 82.0  | 77.2  |     |     |     | 118.4 |
| NO. OF BLADES 15    | 12500 | 66.6 | 71.9  | 74.7  | 80.4  | 81.8  | 84.6  | 86.8  | 87.0  | 86.4  | 80.4  | 75.7  |     |     |     | 117.7 |
| FAN TIP SPEED 16000 | 16000 | 64.1 | 67.5  | 71.1  | 76.0  | 79.7  | 81.0  | 83.1  | 84.5  | 84.0  | 77.5  | 72.9  |     |     |     | 114.9 |
| 476. FT/SEC         | 20000 | 67.0 | 66.6  | 70.3  | 74.7  | 77.0  | 79.4  | 82.0  | 83.6  | 83.6  | 76.8  | 72.2  |     |     |     | 114.4 |
|                     | 25000 | 63.6 | 66.3  | 68.6  | 72.9  | 75.3  | 77.7  | 79.9  | 81.0  | 80.7  | 75.1  | 70.0  |     |     |     | 112.6 |
|                     | 31500 | 63.2 | 66.1  | 67.8  | 72.7  | 74.3  | 76.0  | 78.1  | 79.4  | 79.5  | 74.4  | 68.6  |     |     |     | 112.5 |
|                     | 40000 | 64.6 | 65.6  | 67.3  | 70.3  | 72.4  | 74.6  | 76.0  | 76.6  | 77.0  | 72.7  | 66.1  |     |     |     | 111.5 |
|                     | 50000 | 67.3 | 67.4  | 68.9  | 70.2  | 70.9  | 73.6  | 74.1  | 73.3  | 73.4  | 71.2  | 67.6  |     |     |     | 111.7 |
|                     | 63000 | 69.5 | 68.2  | 70.6  | 70.3  | 70.6  | 73.2  | 71.5  | 71.6  | 70.3  | 71.0  | 69.9  |     |     |     | 113.0 |
|                     | 80000 | 72.0 | 70.3  | 72.0  | 71.6  | 71.0  | 73.0  | 71.6  | 72.1  | 70.7  | 72.6  | 71.2  |     |     |     | 110.5 |
| OVERALL MEASURED    |       |      |       |       |       |       |       |       |       |       |       |       |     |     |     |       |
| OVERALL CALCULATED  |       | 64.9 | 69.2  | 91.7  | 95.2  | 97.7  | 100.5 | 101.2 | 100.6 | 100.7 | 95.7  | 91.7  |     |     |     | 132.3 |
| P20                 |       | 97.9 | 102.7 | 105.0 | 108.8 | 111.3 | 113.9 | 115.2 | 113.4 | 114.0 | 109.0 | 107.3 |     |     |     |       |

TOTAL SURFACE WINDS LEVELS 159, 160, 170 PERCENT RE. MUN. EAVS

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 50.    | 60.    | 70.    | 75.    | 80.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150. | 0.   | 0.   | 0.   | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|
| REF. (1-72)        | (1-19) | (1-36) | (1-53) | (1-71) | (1-89) | (2-05) | (2-24) | (2-42) | (2-60) | (2-78) | (0.) | (0.) | (0.) | (0.) | (0.) |
| SIDELINE 200 FT.   | 50     | 53     |        |        |        |        |        |        |        |        |      |      |      |      |      |
| 1 60-90 N          | 100    | 47.0   | 47.3   | 51.7   | 57.5   | 51.9   | 52.2   | 49.0   | 44.1   | 45.6   | 47.5 | 44.2 |      |      |      |
| VEHICLE            | 125    | 47.4   | 45.4   | 43.8   | 47.7   | 47.7   | 47.2   | 45.4   | 41.6   | 42.6   | 47.2 | 45.1 | 44.2 |      |      |
| CONFIG             | 160    | 47.8   | 43.6   | 43.6   | 47.2   | 45.0   | 47.1   | 47.3   | 44.7   | 47.6   | 47.5 | 44.7 | 44.7 |      |      |
| LCC SENELECTAV     | 200    | 41.7   | 43.3   | 45.2   | 47.1   | 47.3   | 49.5   | 49.7   | 49.6   | 49.7   | 49.3 | 46.5 |      |      |      |
| SATE 1/13/75       | 250    | 47.9   | 45.4   | 47.6   | 49.7   | 49.5   | 51.4   | 50.4   | 49.1   | 48.3   | 47.1 | 43.7 |      |      |      |
| R-1 47/2           | 315    | 43.5   | 45.5   | 47.2   | 49.7   | 50.5   | 51.1   | 50.0   | 49.6   | 48.5   | 47.7 | 43.2 |      |      |      |
| TAFE               | 400    | 42.9   | 46.2   | 47.9   | 48.8   | 49.4   | 49.9   | 49.7   | 49.3   | 49.1   | 46.5 | 41.7 |      |      |      |
| BAR 29.0 PG        | 500    | 42.1   | 44.4   | 45.4   | 47.5   | 47.3   | 46.7   | 50.3   | 49.4   | 47.9   | 45.5 | 40.7 |      |      |      |
| (92923) 1/21       | 650    | 43.3   | 46.0   | 48.5   | 50.4   | 51.2   | 50.1   | 53.2   | 51.6   | 52.0   | 48.7 | 41.1 |      |      |      |
| Tale 47. DEG F     | 800    | 43.6   | 47.4   | 49.9   | 51.8   | 51.9   | 53.7   | 53.3   | 53.4   | 52.1   | 48.2 | 40.0 |      |      |      |
| (291) DEG K        | 1000   | 44.5   | 48.5   | 51.3   | 52.4   | 52.7   | 54.1   | 54.7   | 54.2   | 53.7   | 49.4 | 39.7 |      |      |      |
| T-ET 40. DEG F     | 1200   | 47.9   | 54.2   | 54.6   | 57.6   | 61.4   | 63.2   | 64.3   | 63.3   | 61.7   | 55.7 | 46.0 |      |      |      |
| (2100) DEG K       | 1400   | 49.2   | 53.5   | 56.2   | 57.5   | 60.3   | 61.0   | 62.6   | 61.1   | 59.0   | 52.0 | 42.5 |      |      |      |
| MACT 0-69 G/M/S    | 2000   | 47.7   | 53.1   | 55.3   | 56.4   | 59.4   | 61.4   | 61.6   | 59.8   | 57.4   | 50.5 | 40.2 |      |      |      |
| (-00009) M/G/P     | 2500   | 51.5   | 57.1   | 60.8   | 54.7   | 66.2   | 70.9   | 66.9   | 67.3   | 66.4   | 56.9 | 45.2 |      |      |      |
| MFA 5173. M/F      | 3150   | 43.6   | 55.1   | 54.2   | 61.9   | 64.2   | 67.4   | 65.2   | 64.6   | 63.2   | 53.6 | 43.1 |      |      |      |
| ( 57.00 M/F/SEC)   | 4000   | 49.8   | 58.8   | 59.7   | 64.0   | 67.2   | 67.4   | 70.5   | 65.0   | 62.7   | 54.5 | 45.0 |      |      |      |
| MFK 59.40 M/F      | 5000   | 48.0   | 54.3   | 57.9   | 61.3   | 61.9   | 68.9   | 67.4   | 63.9   | 60.3   | 51.2 | 40.5 |      |      |      |
| ( 52.00 M/F/SEC)   | 6330   | 45.7   | 51.3   | 54.6   | 59.0   | 61.3   | 64.0   | 64.1   | 62.3   | 59.7   | 50.2 | 36.5 |      |      |      |
| MFC 8243. M/F      | 8000   | 45.8   | 47.3   | 51.5   | 56.5   | 57.4   | 60.3   | 59.6   | 54.1   | 56.1   | 46.2 | 33.3 |      |      |      |
| ( 92.00 M/F/SEC)   | 10000  | 37.7   | 44.7   | 46.3   | 53.5   | 55.7   | 57.0   | 57.6   | 56.4   | 53.6   | 42.7 | 28.5 |      |      |      |
| NJ. OF ULAES 15    | 12500  | 34.3   | 41.3   | 44.8   | 50.9   | 52.1   | 54.4   | 55.0   | 52.8   | 48.7   | 36.6 | 20.3 |      |      |      |
| PAR TIP SPLIT      | 16000  | 27.2   | 32.7   | 37.3   | 42.9   | 45.6   | 46.7   | 47.1   | 45.7   | 40.6   | 26.4 | 6.7  |      |      |      |
| 470. FT/SEC        | 20000  | 20.8   | 26.6   | 31.5   | 37.2   | 38.7   | 40.0   | 40.6   | 38.6   | 32.8   | 16.1 |      |      |      |      |
|                    | 25000  | 12.4   | 19.1   | 23.2   | 28.2   | 30.9   | 31.3   | 30.8   | 27.1   | 19.4   | 0.7  |      |      |      |      |
|                    | 31500  | 0.6    | 8.1    | 12.2   | 18.1   | 19.3   | 19.9   | 17.6   | 12.7   | 3.8    |      |      |      |      |      |
|                    | 40000  |        |        |        | 1.0    | 2.4    | 2.1    |        |        |        |      |      |      |      |      |
|                    | 50000  |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
|                    | 63000  |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
|                    | 80000  |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
| OVERALL CALCULATED | 59.3   | 64.7   | 67.7   | 71.2   | 73.7   | 76.0   | 75.7   | 73.6   | 71.7   | 64.2   | 56.2 |      |      |      |      |
| PAR                | 72.4   | 78.4   | 81.4   | 85.1   | 87.5   | 90.0   | 90.1   | 87.3   | 85.8   | 77.7   | 67.8 |      |      |      |      |

HOTEL ... LEVEL 159. WIG. Pa 70 PERCENT OF ...

... IN ...

PHIC. RATE = MONTH 3 BY 30 APR. 1968

|                    | 70°     | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 110°   | 120°   | 130°   | 140°   | 150° | 160° | 170° | 180° | PHI   |
|--------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|-------|
|                    | (1.022) | (1.17) | (1.35) | (1.57) | (1.71) | (1.92) | (2.06) | (2.24) | (2.42) | (2.69) | (2.78) | 10°  | 0°   | 110° | 110° | 110°  |
| RACIAL 17. FT.     | 63      | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63   | 63   | 63   | 63   | 100-7 |
| VEHICLE 15. FT.    | 125     | 72.3   | 72.5   | 71.2   | 73.1   | 75.5   | 76.0   | 74.7   | 73.7   | 73.4   | 77.4   | 60.6 |      |      |      | 100-7 |
| CONFIC 15. FT.     | 150     | 67.3   | 68.3   | 69.7   | 71.1   | 72.8   | 72.3   | 73.4   | 74.9   | 76.9   | 76.4   | 60.6 |      |      |      | 100-1 |
| LCC SCHEDULED      | 200     | 67.3   | 68.2   | 69.2   | 71.1   | 72.8   | 75.0   | 75.4   | 77.2   | 78.4   | 81.2   | 62.6 |      |      |      | 100-6 |
| DATE 1/13/75       | 250     | 69.3   | 72.0   | 72.9   | 74.1   | 74.0   | 75.0   | 76.4   | 76.4   | 76.2   | 70.2   | 60.3 |      |      |      | 100-7 |
| RAT. 47/5          | 315     | 71.3   | 73.5   | 74.7   | 76.1   | 76.3   | 76.0   | 76.9   | 76.9   | 76.4   | 60.2   | 60.3 |      |      |      | 110-8 |
| TAPE               | 400     | 67.6   | 72.2   | 72.7   | 77.9   | 74.0   | 75.5   | 75.9   | 76.7   | 78.2   | 78.9   | 72.6 |      |      |      | 110-4 |
| EAF 20.6           | 500     | 67.3   | 70.3   | 71.2   | 72.9   | 73.3   | 75.3   | 76.9   | 76.9   | 77.4   | 72.2   | 77.3 |      |      |      | 100-9 |
| (19923. 1/12)      | 530     | 75.1   | 72.3   | 77.4   | 75.7   | 75.1   | 75.0   | 79.2   | 79.9   | 80.9   | 80.2   | 77.8 |      |      |      | 111-0 |
| TAPE 44. TEO F     | 600     | 71.1   | 73.3   | 74.7   | 76.4   | 76.5   | 76.0   | 79.0   | 81.2   | 81.4   | 79.7   | 77.3 |      |      |      | 112.1 |
| (270. SEC F)       | 1000    | 71.6   | 74.2   | 75.9   | 77.2   | 77.5   | 79.1   | 81.2   | 81.7   | 82.7   | 79.7   | 72.6 |      |      |      | 112-9 |
| TAPE 42. SEC F     | 1250    | 72.9   | 77.8   | 78.4   | 79.5   | 81.6   | 83.6   | 85.2   | 85.9   | 85.9   | 81.7   | 78.1 |      |      |      | 110-5 |
| (270. SEC F)       | 1500    | 81.6   | 67.2   | 65.2   | 60.4   | 57.1   | 50.4   | 41.6   | 34.2   | 32.7   | 68.7   | 61.6 |      |      |      | 124.1 |
| WACT 0.45 07/03    | 2000    | 75.4   | 61.2   | 61.7   | 64.5   | 65.4   | 67.1   | 69.4   | 65.1   | 67.9   | 63.0   | 79.3 |      |      |      | 120-0 |
| (0.546 06/03)      | 2500    | 75.4   | 62.8   | 62.9   | 67.5   | 67.4   | 69.4   | 68.6   | 90.6   | 91.2   | 84.5   | 60.6 |      |      |      | 121.7 |
| NFA 0.55 07/03     | 3150    | 61.1   | 65.6   | 67.1   | 61.6   | 62.7   | 66.1   | 65.4   | 66.1   | 66.4   | 91.7   | 67.8 |      |      |      | 120.0 |
| (0.55 04/03)       | 4000    | 77.0   | 62.5   | 64.4   | 67.8   | 66.5   | 62.0   | 63.7   | 63.5   | 62.8   | 67.2   | 63.0 |      |      |      | 124.7 |
| NFA 0.55 07/03     | 5000    | 78.5   | 67.0   | 69.2   | 67.3   | 68.6   | 66.7   | 65.4   | 68.2   | 67.0   | 90.6   | 86.4 |      |      |      | 120-6 |
| (0.55 04/03)       | 6300    | 76.5   | 65.0   | 66.4   | 61.1   | 62.4   | 66.0   | 63.9   | 64.5   | 63.0   | 86.8   | 83.7 |      |      |      | 120-0 |
| NFA 0.55 07/03     | 8000    | 73.4   | 73.4   | 65.2   | 67.4   | 67.6   | 61.4   | 63.4   | 62.9   | 61.9   | 86.3   | 61.8 |      |      |      | 124.1 |
| (0.55 04/03)       | 10000   | 72.1   | 78.2   | 61.4   | 66.6   | 67.9   | 60.7   | 62.4   | 63.9   | 62.5   | 85.5   | 61.0 |      |      |      | 120-6 |
| NO. OF BLADES 15   | 12500   | 73.6   | 75.6   | 65.7   | 64.1   | 67.0   | 69.6   | 67.5   | 62.0   | 60.2   | 83.9   | 78.5 |      |      |      | 122-0 |
| FAL. TIP SPEED     | 18000   | 67.6   | 72.0   | 75.4   | 67.5   | 63.2   | 66.2   | 68.1   | 69.3   | 67.7   | 81.2   | 76.9 |      |      |      | 119-5 |
| 500. FT/SEC        | 20000   | 65.7   | 73.6   | 74.5   | 79.9   | 62.0   | 64.6   | 67.5   | 66.9   | 67.2   | 80.5   | 75.7 |      |      |      | 119-2 |
|                    | 25000   | 65.2   | 69.3   | 73.1   | 77.4   | 60.1   | 62.7   | 64.9   | 66.2   | 64.7   | 78.8   | 73.7 |      |      |      | 117-4 |
|                    | 31500   | 64.7   | 65.6   | 72.0   | 76.9   | 79.3   | 61.4   | 63.2   | 65.2   | 64.1   | 77.9   | 71.6 |      |      |      | 117-5 |
|                    | 40000   | 64.7   | 67.1   | 72.5   | 74.5   | 76.3   | 77.3   | 61.4   | 62.3   | 61.0   | 75.7   | 67.8 |      |      |      | 110-1 |
|                    | 50000   | 67.6   | 67.9   | 70.2   | 72.3   | 73.1   | 76.4   | 77.9   | 78.1   | 77.0   | 73.8   | 68.6 |      |      |      | 114-0 |
|                    | 63000   | 69.3   | 68.3   | 70.6   | 71.3   | 70.7   | 73.5   | 73.5   | 73.1   | 71.6   | 71.9   | 69.6 |      |      |      | 114-4 |
|                    | 80000   | 71.9   | 70.7   | 71.4   | 71.5   | 70.6   | 72.6   | 72.0   | 72.0   | 70.8   | 72.3   | 70.8 |      |      |      | 110-4 |
| OVERALL MEASURED   |         |        |        |        |        |        |        |        |        |        |        |      |      |      |      |       |
| OVERALL CALCULATED | 53.7    | 63.9   | 65.7   | 100.4  | 102.4  | 104.1  | 103.8  | 105.3  | 103.5  | 98.9   | 65.3   |      |      |      |      | 130.1 |
| PHIC               | 102.4   | 107.3  | 109.2  | 114.1  | 116.4  | 117.5  | 116.5  | 116.7  | 117.1  | 112.7  | 109.2  |      |      |      |      |       |

|                    | FREQ.  | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140     | 150     | 0       | 0       | 0       | 0       | 0       |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|                    | (1.00) | (1.26) | (1.58) | (1.99) | (2.51) | (3.15) | (3.98) | (5.01) | (6.31) | (7.94) | (10.00) | (12.59) | (15.85) | (20.00) | (25.12) | (31.62) | (39.81) |
| SIDELINE 200. FT.  | 100    | 47.2   | 50.3   | 49.4   | 51.0   | 53.9   | 54.0   | 52.0   | 49.9   | 48.1   | 49.4    | 49.4    |         |         |         |         |         |
| ( 66.90 FT.)       | 125    | 45.1   | 47.3   | 46.6   | 48.5   | 51.0   | 50.4   | 48.4   | 46.3   | 45.5   | 46.7    | 46.7    |         |         |         |         |         |
| VEHICLE A-15       | 100    | 48.1   | 51.3   | 50.4   | 52.0   | 54.9   | 55.0   | 53.0   | 50.9   | 49.1   | 50.4    | 50.4    |         |         |         |         |         |
| CONFIG 33          | 125    | 46.1   | 48.3   | 47.4   | 49.1   | 51.9   | 52.0   | 50.0   | 47.9   | 46.1   | 47.4    | 47.4    |         |         |         |         |         |
| LCC SCHEDULED      | 200    | 44.1   | 46.3   | 45.4   | 47.2   | 49.9   | 50.0   | 48.0   | 45.9   | 44.1   | 45.4    | 45.4    |         |         |         |         |         |
| DATE 1/13/75       | 250    | 46.4   | 49.6   | 48.7   | 50.4   | 53.2   | 53.4   | 51.4   | 49.3   | 47.5   | 48.8    | 48.8    |         |         |         |         |         |
| RUN 4/5            | 315    | 47.3   | 50.5   | 49.6   | 51.3   | 54.1   | 54.2   | 52.2   | 50.1   | 48.3   | 49.6    | 49.6    |         |         |         |         |         |
| TARE               | 400    | 45.9   | 49.1   | 48.2   | 49.9   | 52.7   | 52.8   | 50.8   | 48.7   | 46.9   | 48.2    | 48.2    |         |         |         |         |         |
| BAR 29.5 HG        | 500    | 44.6   | 47.8   | 46.9   | 48.6   | 51.4   | 51.5   | 49.5   | 47.4   | 45.6   | 46.9    | 46.9    |         |         |         |         |         |
| 199023. 1/21       | 630    | 43.3   | 46.5   | 45.6   | 47.3   | 50.1   | 50.2   | 48.2   | 46.1   | 44.3   | 45.6    | 45.6    |         |         |         |         |         |
| TARE 40. DEG F     | 800    | 47.1   | 50.2   | 49.3   | 51.0   | 53.8   | 53.9   | 51.9   | 49.8   | 48.0   | 49.3    | 49.3    |         |         |         |         |         |
| ( 250. DEG F)      | 1000   | 47.5   | 50.6   | 49.7   | 51.4   | 54.2   | 54.3   | 52.3   | 50.2   | 48.4   | 49.7    | 49.7    |         |         |         |         |         |
| TARE 20. DEG F     | 1250   | 43.6   | 46.7   | 45.8   | 47.5   | 50.3   | 50.4   | 48.4   | 46.3   | 44.5   | 45.8    | 45.8    |         |         |         |         |         |
| ( 270. DEG F)      | 1500   | 57.2   | 60.3   | 59.4   | 61.1   | 63.9   | 64.0   | 62.0   | 59.9   | 58.1   | 59.4    | 59.4    |         |         |         |         |         |
| NACT 0.46 1/23     | 2000   | 51.7   | 54.8   | 53.9   | 55.6   | 58.4   | 58.5   | 56.5   | 54.4   | 52.6   | 53.9    | 53.9    |         |         |         |         |         |
| ( 300.44 1/23)     | 2500   | 50.5   | 53.6   | 52.7   | 54.4   | 57.2   | 57.3   | 55.3   | 53.2   | 51.4   | 52.7    | 52.7    |         |         |         |         |         |
| MFA 6250. 1/23     | 3150   | 55.9   | 59.0   | 58.1   | 59.8   | 62.6   | 62.7   | 60.7   | 58.6   | 56.8   | 58.1    | 58.1    |         |         |         |         |         |
| ( 655. 1/23)       | 4000   | 51.3   | 54.4   | 53.5   | 55.2   | 58.0   | 58.1   | 56.1   | 54.0   | 52.2   | 53.5    | 53.5    |         |         |         |         |         |
| MFA 6300. 1/23     | 5000   | 52.6   | 55.7   | 54.8   | 56.5   | 59.3   | 59.4   | 57.4   | 55.3   | 53.5   | 54.8    | 54.8    |         |         |         |         |         |
| ( 665. 1/23)       | 6300   | 49.7   | 52.8   | 51.9   | 53.6   | 56.4   | 56.5   | 54.5   | 52.4   | 50.6   | 51.9    | 51.9    |         |         |         |         |         |
| MFA 6240. 1/23     | 8000   | 45.3   | 48.4   | 47.5   | 49.2   | 52.0   | 52.1   | 50.1   | 48.0   | 46.2   | 47.5    | 47.5    |         |         |         |         |         |
| ( 924. 1/23)       | 10000  | 42.2   | 45.3   | 44.4   | 46.1   | 48.9   | 49.0   | 47.0   | 44.9   | 43.1   | 44.4    | 44.4    |         |         |         |         |         |
| NO. OF BLADES 15   | 12500  | 33.7   | 36.8   | 35.9   | 37.6   | 40.4   | 40.5   | 38.5   | 36.4   | 34.6   | 35.9    | 35.9    |         |         |         |         |         |
| FAN TIP SPEED      | 16000  | 30.7   | 33.8   | 32.9   | 34.6   | 37.4   | 37.5   | 35.5   | 33.4   | 31.6   | 32.9    | 32.9    |         |         |         |         |         |
| 5.6. FT/SEC        | 20000  | 23.2   | 26.3   | 25.4   | 27.1   | 29.9   | 30.0   | 28.0   | 25.9   | 24.1   | 25.4    | 25.4    |         |         |         |         |         |
|                    | 25000  | 14.7   | 17.8   | 16.9   | 18.6   | 21.4   | 21.5   | 19.5   | 17.4   | 15.6   | 16.9    | 16.9    |         |         |         |         |         |
|                    | 31500  | 2.3    | 10.6   | 10.4   | 22.3   | 24.3   | 24.4   | 22.4   | 20.3   | 18.4   | 19.7    | 19.7    |         |         |         |         |         |
|                    | 40000  |        |        |        | 5.2    | 6.4    | 6.5    | 4.0    |        |        |         |         |         |         |         |         |         |
|                    | 50000  |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |         |
|                    | 63000  |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |         |
|                    | 80000  |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |         |
| OVERALL CALCULATED | 63.3   | 66.5   | 71.4   | 76.3   | 78.1   | 79.2   | 77.7   | 76.0   | 74.6   | 67.0   | 59.8    |         |         |         |         |         |         |
| PA50               | 77.1   | 62.6   | 65.2   | 66.3   | 62.4   | 63.1   | 61.6   | 62.4   | 66.7   | 61.2   | 72.2    |         |         |         |         |         |         |



MODEL SOUND EXPOSURE LEVELS 15% WIND. DATE - MONTH 3 AY 10 HR. 10 0

WINDS FROM 10LLT TO 100DEES (AND RADIANSE)

FREQ. (1002)(1012)(1022)(1032)(1042)(1052)(1062)(1072)(1082)(1092)(1102)(1112)(1122)(1132)(1142)(1152)(1162)(1172)(1182)(1192)(1202)

|                    |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| RADIAL 17. FT.     | 100   | 67.0  | 72.8  | 73.7  | 73.4  | 72.0  | 73.8  | 73.2  | 73.4  | 77.2  | 82.2  | 85.6  |       |
| VEHICLE (5. FT)    | 175   | 71.0  | 75.3  | 79.7  | 78.5  | 75.8  | 77.8  | 75.4  | 77.4  | 79.6  | 82.2  | 84.8  | 110.5 |
| CONC 16            | 150   | 71.5  | 72.5  | 72.4  | 73.9  | 73.5  | 74.5  | 76.4  | 74.2  | 80.7  | 83.4  | 84.8  | 112.9 |
| LCC SINE WCTALY    | 200   | 70.0  | 71.7  | 72.4  | 73.1  | 73.5  | 77.0  | 78.7  | 81.4  | 81.7  | 84.4  | 86.1  | 111.7 |
| DATE 1/13/75       | 250   | 72.7  | 74.2  | 75.2  | 77.5  | 77.5  | 78.5  | 79.7  | 79.9  | 81.4  | 83.7  | 84.8  | 113.0 |
| RUN 4875           | 315   | 74.0  | 76.0  | 77.2  | 76.4  | 78.5  | 80.0  | 79.9  | 80.7  | 82.2  | 83.7  | 84.8  | 113.0 |
| TAPE               | 400   | 72.7  | 74.7  | 75.4  | 76.5  | 77.3  | 78.0  | 78.9  | 79.9  | 81.2  | 82.4  | 82.6  | 113.0 |
| BAR 29.5 Hz        | 500   | 71.3  | 72.3  | 73.7  | 75.9  | 76.1  | 77.6  | 79.7  | 79.6  | 81.2  | 82.4  | 82.6  | 113.9 |
| 199230 (1/2)       | 600   | 72.5  | 75.3  | 76.4  | 78.4  | 79.3  | 81.3  | 82.2  | 82.7  | 83.4  | 83.7  | 81.3  | 112.5 |
| TAMB 20. SEC F     | 800   | 73.9  | 75.3  | 77.2  | 78.7  | 79.5  | 81.0  | 82.7  | 83.7  | 83.7  | 82.7  | 81.3  | 111.9 |
| (20. SEC F)        | 1000  | 74.1  | 76.0  | 77.4  | 78.7  | 79.5  | 81.0  | 82.7  | 83.7  | 83.7  | 82.7  | 81.3  | 114.5 |
| TACT 20. SEC F     | 1200  | 74.5  | 77.5  | 79.7  | 81.3  | 82.5  | 85.1  | 85.9  | 86.4  | 86.4  | 82.2  | 79.8  | 114.9 |
| (27.9. SEC F)      | 1400  | 71.4  | 64.5  | 67.2  | 68.3  | 68.5  | 64.9  | 64.4  | 63.4  | 63.7  | 62.7  | 60.8  | 115.3 |
| NACT 5.67 (1/3)    | 1600  | 71.1  | 63.6  | 67.9  | 68.0  | 68.7  | 64.9  | 65.1  | 63.9  | 63.7  | 62.7  | 64.8  | 117.5 |
| (1.00507 (1/3))    | 1800  | 71.1  | 63.3  | 67.4  | 67.5  | 68.9  | 65.1  | 64.1  | 63.7  | 62.7  | 62.5  | 62.3  | 120.0 |
| MFA 7030. MFA      | 2000  | 71.1  | 63.3  | 67.4  | 67.1  | 68.9  | 65.5  | 64.1  | 63.1  | 62.2  | 62.5  | 62.3  | 120.0 |
| (737. (1/3))       | 2500  | 71.4  | 63.3  | 67.4  | 67.3  | 68.9  | 65.0  | 64.1  | 63.1  | 62.2  | 62.5  | 62.3  | 120.0 |
| MFK 7120. MFA      | 3150  | 71.4  | 63.3  | 67.4  | 67.3  | 68.9  | 65.0  | 64.1  | 63.1  | 62.2  | 62.5  | 62.3  | 120.0 |
| (740. (1/3))       | 4000  | 71.4  | 63.3  | 67.4  | 67.3  | 68.9  | 65.0  | 64.1  | 63.1  | 62.2  | 62.5  | 62.3  | 120.0 |
| MFD 6343. MFA      | 5000  | 71.4  | 63.3  | 67.4  | 67.3  | 68.9  | 65.0  | 64.1  | 63.1  | 62.2  | 62.5  | 62.3  | 120.0 |
| (924. (1/3))       | 6300  | 71.4  | 63.3  | 67.4  | 67.3  | 68.9  | 65.0  | 64.1  | 63.1  | 62.2  | 62.5  | 62.3  | 120.0 |
| NO. OF PLACES 15   | 10500 | 71.4  | 63.3  | 67.4  | 67.3  | 68.9  | 65.0  | 64.1  | 63.1  | 62.2  | 62.5  | 62.3  | 120.0 |
| PAK TIP SPEED      | 12000 | 71.4  | 63.3  | 67.4  | 67.3  | 68.9  | 65.0  | 64.1  | 63.1  | 62.2  | 62.5  | 62.3  | 120.0 |
| 614. FT/SEC        | 20000 | 71.4  | 63.3  | 67.4  | 67.3  | 68.9  | 65.0  | 64.1  | 63.1  | 62.2  | 62.5  | 62.3  | 120.0 |
|                    | 25000 | 69.2  | 73.9  | 78.5  | 82.8  | 84.5  | 87.5  | 89.8  | 91.4  | 90.8  | 84.7  | 79.8  | 120.0 |
|                    | 31500 | 69.2  | 73.1  | 77.3  | 82.4  | 83.5  | 86.3  | 84.3  | 89.6  | 87.8  | 82.1  | 75.3  | 120.0 |
|                    | 40000 | 64.9  | 71.7  | 74.5  | 78.7  | 80.9  | 83.7  | 85.6  | 85.7  | 84.1  | 79.1  | 70.2  | 120.0 |
|                    | 50000 | 61.2  | 69.3  | 72.6  | 75.9  | 77.5  | 80.5  | 82.5  | 81.9  | 79.8  | 76.6  | 68.7  | 120.0 |
|                    | 63000 | 69.8  | 68.8  | 70.9  | 72.4  | 72.7  | 76.0  | 76.3  | 75.6  | 74.4  | 73.2  | 69.2  | 120.0 |
|                    | 80000 | 72.4  | 71.3  | 72.0  | 71.3  | 71.0  | 73.2  | 73.1  | 73.1  | 70.9  | 72.4  | 70.9  | 120.0 |
| OVERALL MEASURED   |       | 92.8  | 98.7  | 101.2 | 105.7 | 106.7 | 107.0 | 109.2 | 110.8 | 105.7 | 101.4 | 68.5  | 110.0 |
| OVERALL CALCULATED |       | 106.5 | 112.9 | 115.2 | 119.6 | 120.9 | 119.0 | 122.4 | 124.4 | 118.4 | 114.7 | 111.5 | 110.0 |

ORIGINAL PAGE IS OF POOR QUALITY

MUDEL SOURCE PRESSURE LEVELS 150. W.P. P. 7% PERCENT RE. NOM. DAVI

PHIL. DATE - MONTH 3 AT 10 HR. 10.0

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 50°    | 60°    | 70°    | 80°    | 90°    | 100°   | 110°   | 120°   | 130°   | 140°   | 150°   | 0°   | 0° | 0° | 0° | 0° |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|
|                    | (1.02) | (1.17) | (1.35) | (1.57) | (1.71) | (1.95) | (2.06) | (2.24) | (2.42) | (2.60) | (2.70) | 0.   | 0. | 0. | 0. | 0. |
| SIDELINE 200. FT.  | 54     | 63     | 86     |        |        |        |        |        |        |        |        |      |    |    |    |    |
| VEHICLE            | 100    | 44.0   | 30.3   | 51.3   | 51.8   | 53.4   | 41.7   | 59.5   | 49.6   | 51.3   | 54.5   | 54.2 |    |    |    |    |
| CONFIG             | 125    | 49.9   | 36.7   | 57.8   | 57.3   | 54.1   | 55.7   | 52.7   | 53.6   | 54.5   | 54.4   | 53.0 |    |    |    |    |
| LCC                | 160    | 47.3   | 35.1   | 50.5   | 52.2   | 52.3   | 52.3   | 53.6   | 54.2   | 55.1   | 55.5   | 53.0 |    |    |    |    |
| DATE 1/13/75       | 200    | 45.7   | 49.3   | 50.4   | 57.3   | 51.3   | 55.5   | 55.2   | 56.3   | 54.7   | 56.3   | 54.0 |    |    |    |    |
| TIME 0600          | 250    | 49.4   | 51.7   | 54.1   | 55.7   | 55.5   | 57.4   | 54.6   | 55.7   | 55.6   | 55.6   | 52.5 |    |    |    |    |
| TARE               | 310    | 50.5   | 51.3   | 55.0   | 54.4   | 56.3   | 57.0   | 56.8   | 56.4   | 56.2   | 55.5   | 52.0 |    |    |    |    |
| CAF                | 400    | 49.2   | 52.3   | 53.2   | 54.6   | 54.9   | 55.5   | 55.7   | 55.5   | 55.1   | 53.0   | 49.7 |    |    |    |    |
| TAIB               | 500    | 47.6   | 49.9   | 51.3   | 53.3   | 53.8   | 55.2   | 56.3   | 55.4   | 54.4   | 52.4   | 48.2 |    |    |    |    |
| TAIB               | 600    | 49.8   | 52.3   | 54.8   | 54.2   | 57.0   | 57.0   | 58.7   | 54.0   | 57.0   | 54.7   | 48.1 |    |    |    |    |
| TAIB               | 800    | 49.9   | 52.7   | 54.6   | 56.3   | 57.4   | 58.7   | 59.1   | 58.9   | 57.1   | 53.4   | 47.5 |    |    |    |    |
| T.C.T              | 1000   | 51.0   | 37.3   | 53.7   | 37.2   | 57.2   | 51.0   | 59.9   | 56.0   | 54.2   | 52.7   | 45.7 |    |    |    |    |
| T.C.T              | 1250   | 50.6   | 34.4   | 56.8   | 38.4   | 59.9   | 62.8   | 62.8   | 61.3   | 60.0   | 52.9   | 46.3 |    |    |    |    |
| T.C.T              | 1500   | 55.0   | 01.3   | 64.2   | 00.5   | 68.5   | 71.0   | 78.3   | 67.1   | 66.5   | 59.4   | 49.0 |    |    |    |    |
| NACT               | 2000   | 55.3   | 01.3   | 64.7   | 00.1   | 69.5   | 71.4   | 78.9   | 68.3   | 66.2   | 54.5   | 49.0 |    |    |    |    |
| NACT               | 2500   | 53.2   | 59.4   | 62.0   | 60.7   | 69.7   | 68.5   | 69.6   | 67.3   | 64.4   | 59.7   | 46.2 |    |    |    |    |
| NFA                | 3150   | 60.1   | 05.6   | 68.7   | 71.7   | 71.4   | 71.7   | 77.4   | 78.9   | 64.5   | 61.1   | 51.1 |    |    |    |    |
| NFA                | 4000   | 59.6   | 05.3   | 68.2   | 73.5   | 72.0   | 77.2   | 76.8   | 67.4   | 60.5   | 50.5   |      |    |    |    |    |
| NFA                | 5000   | 59.3   | 09.3   | 72.4   | 77.7   | 79.9   | 75.0   | 75.2   | 73.2   | 68.3   | 58.7   | 49.0 |    |    |    |    |
| NFA                | 6300   | 57.3   | 08.3   | 64.4   | 64.6   | 69.9   | 72.1   | 72.4   | 69.8   | 64.5   | 59.7   | 45.0 |    |    |    |    |
| NFA                | 8000   | 49.3   | 57.1   | 62.3   | 66.0   | 68.7   | 71.4   | 69.9   | 67.4   | 61.7   | 52.5   | 40.3 |    |    |    |    |
| NFA                | 10000  | 45.1   | 55.3   | 59.6   | 64.1   | 65.0   | 64.6   | 67.0   | 65.4   | 59.5   | 49.0   | 35.5 |    |    |    |    |
| NFA                | 12500  | 42.3   | 49.5   | 54.9   | 59.9   | 51.4   | 62.7   | 62.5   | 66.9   | 55.0   | 43.7   | 28.9 |    |    |    |    |
| NFA                | 15000  | 35.1   | 47.1   | 47.3   | 52.2   | 54.5   | 56.1   | 56.5   | 54.8   | 46.9   | 33.5   | 13.0 |    |    |    |    |
| NFA                | 20000  | 28.1   | 35.5   | 41.7   | 46.7   | 48.3   | 50.0   | 50.3   | 48.3   | 40.0   | 24.0   |      |    |    |    |    |
| NFA                | 25000  | 14.6   | 26.5   | 33.1   | 34.2   | 39.5   | 41.4   | 40.7   | 37.6   | 27.6   | 8.6    |      |    |    |    |    |
| NFA                | 31500  | 5.8    | 15.0   | 21.7   | 27.3   | 28.5   | 29.4   | 27.6   | 22.9   | 11.0   |        |      |    |    |    |    |
| NFA                | 40000  |        |        | 4.0    | 9.5    | 11.0   | 11.2   | 8.1    |        |        |        |      |    |    |    |    |
| NFA                | 50000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |
| NFA                | 63000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |
| NFA                | 80000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |
| NFA                | 100000 |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |
| OVERALL CALCULATED | 67.2   | 73.8   | 76.8   | 81.6   | 82.3   | 41.7   | 83.4   | 83.8   | 76.2   | 69.8   | 63.4   |      |    |    |    |    |
| PHYSICAL           | 61.2   | 68.2   | 91.1   | 95.7   | 96.9   | 95.3   | 97.4   | 98.1   | 90.0   | 83.2   | 74.5   |      |    |    |    |    |

MODEL 3000 150.0% 70 PERCENT OF (MUM, DAY)

PHASE DATE - MONTH 3 AT 10.00

PHASE DATE - MONTH 3 AT 10.00

|                     | 500   | 600   | 700   | 800   | 900   | 1000  | 1100  | 1200  | 1300  | 1400  | 1500  | 1600 | 1700 | 1800 | 1900 | 2000  |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|
| RADIAL 17.0 FT.     | 149   | 63.0  | 73.2  | 73.9  | 74.1  | 75.0  | 76.5  | 76.7  | 76.6  | 61.4  | 64.9  | 66.6 |      |      |      |       |
| VELOCITY            | 128   | 71.4  | 75.3  | 77.7  | 77.1  | 78.0  | 78.5  | 78.7  | 80.9  | 67.2  | 64.0  | 64.1 |      |      |      | 113.1 |
| CONFIG              | 100   | 73.0  | 75.7  | 75.4  | 77.9  | 77.3  | 75.2  | 79.9  | 61.6  | 64.4  | 66.3  | 68.6 |      |      |      | 114.5 |
| LCC                 | 200   | 72.3  | 75.2  | 75.2  | 77.9  | 77.3  | 81.5  | 81.7  | 63.4  | 65.2  | 67.9  | 69.6 |      |      |      | 115.2 |
| DATE 1/13/75        | 250   | 75.8  | 77.7  | 79.2  | 81.1  | 80.8  | 82.2  | 83.4  | 64.1  | 65.2  | 67.4  | 68.6 |      |      |      | 116.4 |
| R.H. 4/77           | 315   | 77.3  | 78.3  | 83.7  | 81.4  | 81.5  | 82.7  | 83.4  | 64.1  | 65.2  | 67.4  | 68.6 |      |      |      | 116.9 |
| TAPE                | 400   | 73.8  | 77.7  | 78.2  | 79.9  | 80.0  | 81.5  | 82.4  | 63.4  | 64.7  | 66.2  | 68.6 |      |      |      | 117.2 |
| BAR 20.0            | 500   | 74.3  | 76.2  | 76.7  | 78.2  | 79.0  | 81.0  | 83.2  | 63.4  | 63.7  | 65.4  | 65.3 |      |      |      | 118.0 |
| 19943.0             | 600   | 75.7  | 77.7  | 78.7  | 81.2  | 82.1  | 84.3  | 84.9  | 65.4  | 66.4  | 66.0  | 64.8 |      |      |      | 119.3 |
| TAB 45.0            | 800   | 76.6  | 76.9  | 80.2  | 81.9  | 82.3  | 84.5  | 85.4  | 66.9  | 66.4  | 65.2  | 64.0 |      |      |      | 117.7 |
| 12500               | 1000  | 76.6  | 78.3  | 80.7  | 82.2  | 82.5  | 84.5  | 86.1  | 67.1  | 66.9  | 64.7  | 62.0 |      |      |      | 117.9 |
| TACT 110            | 1200  | 77.6  | 83.2  | 81.7  | 82.5  | 84.4  | 87.3  | 86.4  | 68.9  | 68.2  | 65.2  | 63.3 |      |      |      | 119.7 |
| 12700               | 1500  | 79.6  | 83.5  | 85.2  | 87.5  | 88.7  | 90.6  | 91.1  | 91.4  | 90.9  | 85.5  | 83.1 |      |      |      | 122.6 |
| HACT 5001           | 2000  | 86.9  | 81.3  | 84.2  | 87.0  | 86.4  | 89.1  | 101.1 | 100.9 | 99.2  | 93.0  | 89.3 |      |      |      | 131.5 |
| 100001              | 2500  | 81.8  | 85.3  | 83.2  | 85.1  | 87.2  | 95.0  | 96.6  | 95.6  | 93.4  | 84.0  | 85.3 |      |      |      | 127.6 |
| MFA 7817            | 3100  | 81.6  | 86.8  | 86.9  | 87.3  | 84.7  | 96.0  | 96.3  | 97.1  | 94.4  | 89.5  | 85.8 |      |      |      | 127.6 |
| 1 810               | 4000  | 80.3  | 82.5  | 85.1  | 86.6  | 101.4 | 105.3 | 105.8 | 104.7 | 97.9  | 94.5  | 91.7 |      |      |      | 130.6 |
| 1 7625              | 5000  | 83.5  | 88.7  | 81.5  | 85.4  | 89.4  | 96.2  | 100.9 | 101.2 | 98.3  | 91.9  | 87.2 |      |      |      | 131.2 |
| 1 830               | 6000  | 82.1  | 85.5  | 87.5  | 101.9 | 104.7 | 102.7 | 105.2 | 104.8 | 106.8 | 96.3  | 91.8 |      |      |      | 130.6 |
| 1 823               | 8000  | 81.2  | 83.7  | 83.7  | 85.7  | 86.4  | 100.1 | 102.5 | 101.7 | 95.7  | 91.3  | 87.6 |      |      |      | 131.9 |
| 1 924               | 10000 | 83.7  | 86.5  | 81.5  | 85.5  | 86.2  | 99.5  | 101.4 | 100.5 | 94.3  | 91.9  | 87.1 |      |      |      | 131.4 |
| 1 12500             | 12000 | 83.2  | 85.3  | 89.6  | 87.5  | 86.1  | 97.0  | 100.6 | 101.8 | 95.5  | 90.5  | 85.6 |      |      |      | 131.1 |
| 1 16000             | 14000 | 76.5  | 82.4  | 86.7  | 81.2  | 83.3  | 97.3  | 97.2  | 98.1  | 94.1  | 88.1  | 84.3 |      |      |      | 126.6 |
| 1 20000             | 16000 | 75.4  | 81.4  | 85.2  | 89.1  | 81.7  | 94.5  | 96.7  | 96.0  | 93.8  | 87.9  | 83.0 |      |      |      | 126.2 |
| 1 25000             | 18000 | 74.3  | 82.5  | 82.8  | 87.0  | 83.0  | 83.3  | 95.6  | 96.4  | 92.5  | 87.5  | 81.0 |      |      |      | 127.5 |
| 1 31000             | 21000 | 73.2  | 78.6  | 81.8  | 87.2  | 88.8  | 92.8  | 93.9  | 94.9  | 91.9  | 86.4  | 79.4 |      |      |      | 127.2 |
| 1 40000             | 23000 | 71.3  | 77.9  | 79.3  | 84.1  | 85.6  | 88.0  | 90.7  | 90.8  | 88.3  | 83.0  | 73.6 |      |      |      | 129.8 |
| 1 50000             | 25000 | 75.1  | 77.7  | 76.5  | 81.1  | 83.5  | 85.8  | 87.7  | 87.3  | 84.3  | 80.1  | 71.1 |      |      |      | 123.7 |
| 1 60000             | 27000 | 69.9  | 77.3  | 72.5  | 74.5  | 80.5  | 83.3  | 83.1  | 82.9  | 77.5  | 75.2  | 78.5 |      |      |      | 122.9 |
| 1 80000             | 30000 | 71.9  | 78.2  | 71.9  | 71.8  | 79.7  | 81.9  | 81.1  | 81.3  | 72.9  | 72.8  | 71.1 |      |      |      | 129.6 |
| OVERALL MEASURES    |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |       |
| GENERAL CALCULATION | 65.9  | 100.7 | 103.1 | 106.5 | 109.1 | 110.7 | 112.4 | 113.6 | 107.9 | 103.9 | 101.4 |      |      |      |      | 143.3 |
| PAGE                | 109.7 | 113.9 | 116.0 | 118.2 | 121.9 | 124.1 | 125.1 | 126.9 | 126.3 | 116.8 | 114.2 |      |      |      |      |       |

ORIGINAL PAGE IS OF POOR QUALITY

| PRCS.               | 50   | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130   | 140  | 150  | 160  | 170  | 180 | 190 | 200 |
|---------------------|------|------|------|------|------|------|------|------|-------|------|------|------|------|-----|-----|-----|
| SATELLITE 200 FT.   | 51   | 51   | 51   | 51   | 51   | 51   | 51   | 51   | 51    | 51   | 51   | 51   | 51   | 51  | 51  | 51  |
| VERTICAL            | 100  | 46.0 | 50.9 | 52.2 | 52.6 | 53.4 | 54.0 | 54.0 | 52.0  | 55.1 | 57.3 | 57.2 |      |     |     |     |
| CLIFF               | 170  | 50.6 | 53.5 | 55.4 | 57.5 | 57.0 | 56.4 | 55.9 | 57.0  | 57.0 | 57.1 | 56.5 |      |     |     |     |
| LCC                 | 200  | 47.5 | 52.7 | 53.2 | 54.1 | 55.2 | 56.1 | 56.2 | 57.1  | 57.1 | 56.7 | 56.7 |      |     |     |     |
| DATE 1/13/75        | 250  | 52.4 | 55.1 | 57.1 | 57.2 | 58.4 | 58.4 | 58.4 | 59.4  | 59.4 | 59.4 | 59.1 | 59.2 |     |     |     |
| RUN 4/77            | 315  | 54.3 | 56.3 | 58.5 | 59.1 | 59.5 | 60.3 | 60.3 | 60.3  | 60.3 | 60.3 | 59.8 | 59.9 |     |     |     |
| TARE                | 400  | 52.2 | 51.9 | 55.2 | 57.4 | 57.9 | 58.0 | 59.2 | 59.0  | 59.0 | 59.0 | 57.0 | 57.7 |     |     |     |
| DATE 2/5/75         | 500  | 53.5 | 52.3 | 54.3 | 56.5 | 56.1 | 57.4 | 57.4 | 57.4  | 57.4 | 56.6 | 56.2 | 56.2 |     |     |     |
| 199230              | 630  | 57.0 | 54.7 | 56.2 | 57.5 | 57.7 | 61.5 | 61.4 | 61.4  | 61.4 | 60.0 | 59.9 | 59.4 |     |     |     |
| TARE 150 SEC        | 800  | 52.8 | 55.3 | 57.0 | 57.5 | 59.0 | 61.7 | 61.0 | 62.1  | 62.1 | 60.0 | 59.9 | 59.9 |     |     |     |
| 12700 SEC           | 1000 | 52.5 | 55.7 | 59.1 | 59.7 | 63.2 | 61.9 | 62.4 | 62.2  | 60.2 | 55.2 | 48.7 |      |     |     |     |
| TARE 410 SEC        | 1200 | 53.4 | 54.8 | 59.4 | 60.9 | 62.1 | 64.2 | 64.5 | 63.7  | 61.2 | 55.4 | 48.0 |      |     |     |     |
| 12700 SEC           | 1400 | 54.2 | 59.3 | 62.2 | 64.7 | 66.3 | 67.4 | 67.1 | 66.8  | 63.7 | 55.4 | 48.0 |      |     |     |     |
| NACT 5001           | 1600 | 62.2 | 67.3 | 71.0 | 71.1 | 73.3 | 75.6 | 76.0 | 75.3  | 71.7 | 62.5 | 53.7 |      |     |     |     |
| 100001              | 1800 | 56.7 | 62.5 | 65.4 | 67.2 | 69.9 | 71.9 | 72.1 | 69.8  | 65.7 | 57.2 | 49.2 |      |     |     |     |
| NFA 7017            | 2000 | 58.4 | 62.5 | 65.2 | 67.4 | 71.2 | 72.4 | 71.5 | 70.0  | 66.2 | 58.1 | 48.0 |      |     |     |     |
| 1 4100              | 2200 | 63.6 | 67.8 | 71.3 | 72.3 | 77.5 | 80.3 | 80.5 | 82.9  | 80.0 | 62.2 | 53.5 |      |     |     |     |
| NFA 7525            | 2400 | 57.0 | 64.3 | 67.2 | 71.7 | 74.2 | 73.0 | 75.4 | 74.1  | 67.1 | 59.2 | 48.3 |      |     |     |     |
| 1 4300              | 2600 | 67.2 | 69.3 | 72.4 | 76.2 | 79.9 | 77.3 | 78.9 | 80.0  | 70.5 | 62.7 | 50.7 |      |     |     |     |
| NFA 6230            | 2800 | 53.1 | 61.8 | 64.6 | 69.5 | 73.4 | 73.0 | 74.0 | 72.4  | 63.7 | 55.0 | 43.4 |      |     |     |     |
| 1 0240              | 3000 | 50.3 | 58.0 | 63.0 | 67.1 | 69.7 | 71.4 | 72.5 | 69.2  | 62.0 | 52.5 | 38.3 |      |     |     |     |
| NO. OF PLATES 15    | 3200 | 47.7 | 55.0 | 59.7 | 64.7 | 66.4 | 67.2 | 68.0 | 67.7  | 57.0 | 46.7 | 30.5 |      |     |     |     |
| FAN TIP SPEED       | 3400 | 79.6 | 77.6 | 53.1 | 54.9 | 55.3 | 43.1 | 41.3 | 56.3  | 50.7 | 37.0 | 10.1 |      |     |     |     |
| 602 FT/SEC          | 3600 | 32.9 | 41.5 | 46.7 | 51.2 | 53.5 | 55.2 | 55.3 | 53.0  | 43.0 | 27.3 | 3.2  |      |     |     |     |
|                     | 3800 | 73.4 | 33.2 | 37.4 | 43.2 | 45.1 | 46.4 | 46.5 | 42.6  | 31.1 | 13.2 |      |      |     |     |     |
|                     | 4000 | 10.3 | 41.5 | 46.2 | 52.5 | 53.8 | 55.9 | 53.3 | 28.2  | 15.8 |      |      |      |     |     |     |
|                     | 4200 |      | 3.3  | 8.6  | 14.7 | 15.7 | 10.4 | 13.3 | 4.9   |      |      |      |      |     |     |     |
|                     | 4400 |      |      |      |      |      |      |      |       |      |      |      |      |     |     |     |
|                     | 4600 |      |      |      |      |      |      |      |       |      |      |      |      |     |     |     |
| OVERALL CALCULATION | 70.0 | 75.4 | 78.3 | 81.7 | 84.2 | 85.2 | 85.0 | 85.0 | 70.0  | 71.0 | 66.5 |      |      |     |     |     |
| PVCH                | 64.2 | 68.5 | 71.0 | 75.3 | 77.0 | 79.0 | 79.0 | 79.0 | 100.3 | 91.3 | 84.0 | 77.0 |      |     |     |     |







PHYS. LAB - NORTH 3 AT 10 AM, 1960

PHYS. LAB - NORTH 3 AT 10 AM, 1960

|                     | 110 | 120  | 130  | 140  | 150  | 160  | 170  | 180  | 190  | 200  | 210  | 220  | 230 | 240 | 250 |
|---------------------|-----|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| VEHICLE             | 125 | 47.5 | 51.7 | 57.5 | 52.4 | 52.5 | 47.2 | 43.6 | 45.3 | 47.9 | 48.2 |      |     |     |     |
| COPIES              | 125 | 46.1 | 47.3 | 47.9 | 37.3 | 47.7 | 45.4 | 47.3 | 47.2 | 48.9 | 44.2 |      |     |     |     |
| LIC                 | 125 | 47.5 | 43.3 | 47.3 | 47.2 | 47.7 | 46.8 | 46.7 | 47.9 | 48.8 | 44.7 |      |     |     |     |
| DATE                | 125 | 47.5 | 43.3 | 47.3 | 47.2 | 47.7 | 46.8 | 46.7 | 47.9 | 48.8 | 44.7 |      |     |     |     |
| TIME                | 125 | 47.5 | 43.3 | 47.3 | 47.2 | 47.7 | 46.8 | 46.7 | 47.9 | 48.8 | 44.7 |      |     |     |     |
| TEMP                | 125 | 47.5 | 43.3 | 47.3 | 47.2 | 47.7 | 46.8 | 46.7 | 47.9 | 48.8 | 44.7 |      |     |     |     |
| WIND                | 125 | 47.5 | 43.3 | 47.3 | 47.2 | 47.7 | 46.8 | 46.7 | 47.9 | 48.8 | 44.7 |      |     |     |     |
| MOON                | 125 | 47.5 | 43.3 | 47.3 | 47.2 | 47.7 | 46.8 | 46.7 | 47.9 | 48.8 | 44.7 |      |     |     |     |
| STAR                | 125 | 47.5 | 43.3 | 47.3 | 47.2 | 47.7 | 46.8 | 46.7 | 47.9 | 48.8 | 44.7 |      |     |     |     |
| PLANETS             | 125 | 47.5 | 43.3 | 47.3 | 47.2 | 47.7 | 46.8 | 46.7 | 47.9 | 48.8 | 44.7 |      |     |     |     |
| GENERAL CALCULATION | 125 | 59.1 | 64.6 | 67.3 | 71.2 | 73.7 | 76.3 | 79.0 | 73.7 | 72.0 | 64.4 | 58.3 |     |     |     |
|                     | 125 | 72.3 | 78.3 | 81.3 | 84.9 | 87.6 | 90.4 | 93.1 | 87.4 | 86.0 | 77.7 | 67.9 |     |     |     |



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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F.; 76 PERCENT REL. HUM. DAY) PROC. DATE - MON, M 11 DAY 25 Mo. 10.4

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | FREQ. | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0   | 0   | 0   | 0   | 0   | 0   | 0     |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|-------|
|                    |       | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0) | (0) | (0) | (0) | (0) | (0) | (0)   |
|                    | 50    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |       |
|                    | 63    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |       |
|                    | 80    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |       |
| RADIAL 17. FT.     | 100   | 68.5   | 74.4   | 73.9   | 72.4   | 71.4   | 72.7   | 71.9   | 73.4   | 76.0   | 80.1   | 83.6   |     |     |     |     |     |     | 109.0 |
| VEHICLE (5. M)     | 125   | 74.0   | 80.9   | 79.4   | 77.4   | 75.6   | 74.9   | 75.4   | 77.9   | 78.5   | 80.1   | 83.6   |     |     |     |     |     |     | 112.5 |
| CONFIG R-55        | 160   | 71.8   | 72.6   | 72.1   | 73.4   | 73.9   | 73.9   | 75.4   | 77.4   | 79.2   | 81.6   | 83.6   |     |     |     |     |     |     | 111.1 |
| LOC SCHEMECTADY    | 200   | 70.8   | 71.1   | 72.1   | 72.9   | 74.6   | 76.9   | 77.1   | 78.9   | 80.0   | 82.6   | 84.6   |     |     |     |     |     |     | 112.1 |
| DATE 11/22/74      | 250   | 73.8   | 74.6   | 75.4   | 76.1   | 76.6   | 77.9   | 78.3   | 79.4   | 80.5   | 82.1   | 83.6   |     |     |     |     |     |     | 112.8 |
| RUN 22/3           | 315   | 75.5   | 76.4   | 76.6   | 77.2   | 78.4   | 78.4   | 78.6   | 79.1   | 80.5   | 82.1   | 82.8   |     |     |     |     |     |     | 113.1 |
| TAPE               | 400   | 74.1   | 74.6   | 74.9   | 76.2   | 76.4   | 77.4   | 77.9   | 78.6   | 79.7   | 81.3   | 82.1   |     |     |     |     |     |     | 112.1 |
| BAR 29.6 HG        | 500   | 72.1   | 72.9   | 72.9   | 74.2   | 75.9   | 77.4   | 78.4   | 79.4   | 80.0   | 81.3   | 80.9   |     |     |     |     |     |     | 111.6 |
| (100122. N/M2)     | 630   | 74.1   | 74.1   | 74.9   | 77.2   | 78.7   | 79.9   | 80.9   | 82.4   | 82.2   | 82.6   | 81.1   |     |     |     |     |     |     | 113.9 |
| TAMB 31. DEG F     | 800   | 75.4   | 75.4   | 76.4   | 77.2   | 78.9   | 80.2   | 81.6   | 82.7   | 82.7   | 82.1   | 80.9   |     |     |     |     |     |     | 114.3 |
| (273. DEG K)       | 1000  | 73.1   | 73.9   | 75.6   | 77.7   | 79.1   | 81.5   | 82.3   | 83.6   | 84.2   | 83.3   | 79.9   |     |     |     |     |     |     | 115.8 |
| THEI 29. DEG F     | 1250  | 74.9   | 75.7   | 77.4   | 80.0   | 81.9   | 83.7   | 85.1   | 86.4   | 86.0   | 84.4   | 80.4   |     |     |     |     |     |     | 117.2 |
| (271. DEG K)       | 1600  | 80.2   | 81.4   | 84.1   | 87.6   | 90.0   | 92.0   | 92.3   | 92.4   | 91.7   | 90.4   | 83.4   |     |     |     |     |     |     | 124.8 |
| HACT 3.72 GM/M3    | 2000  | 80.4   | 82.2   | 83.9   | 87.1   | 89.5   | 90.8   | 91.8   | 92.1   | 91.5   | 89.9   | 86.9   |     |     |     |     |     |     | 123.3 |
| (1.00372 KG/M3)    | 2500  | 78.4   | 80.5   | 82.6   | 86.1   | 89.0   | 91.0   | 91.6   | 90.6   | 91.0   | 89.2   | 82.1   |     |     |     |     |     |     | 122.7 |
| NFA 6944. RPM      | 3150  | 80.7   | 82.0   | 84.1   | 88.2   | 91.3   | 92.5   | 94.5   | 94.1   | 95.5   | 90.2   | 85.6   |     |     |     |     |     |     | 125.7 |
| (727. RAD/SEC)     | 4000  | 79.4   | 81.5   | 84.1   | 88.7   | 91.3   | 92.5   | 94.7   | 94.3   | 94.4   | 89.6   | 85.5   |     |     |     |     |     |     | 125.6 |
| NPK 7139. RPM      | 5000  | 78.1   | 80.2   | 83.5   | 87.4   | 90.8   | 92.2   | 94.2   | 94.7   | 93.9   | 89.1   | 83.7   |     |     |     |     |     |     | 125.3 |
| (747. RAD/SEC)     | 6300  | 76.5   | 78.5   | 81.0   | 85.5   | 88.4   | 90.2   | 92.2   | 93.3   | 92.9   | 87.8   | 82.8   |     |     |     |     |     |     | 123.7 |
| NFD 8023. RPM      | 8000  | 74.4   | 77.7   | 79.8   | 84.8   | 86.6   | 89.1   | 91.2   | 92.8   | 92.8   | 87.3   | 82.7   |     |     |     |     |     |     | 123.1 |
| (924. RAD/SEC)     | 10000 | 74.2   | 76.3   | 80.1   | 84.5   | 86.7   | 89.5   | 91.0   | 92.6   | 92.4   | 87.5   | 82.9   |     |     |     |     |     |     | 123.1 |
| NO. OF BLADES 15   | 12500 | 75.2   | 75.3   | 78.5   | 83.4   | 86.3   | 87.9   | 90.6   | 91.6   | 92.1   | 86.4   | 81.8   |     |     |     |     |     |     | 122.5 |
| FAN TIP SPEED      | 16000 | 75.4   | 72.7   | 76.1   | 80.1   | 83.3   | 85.8   | 87.7   | 90.6   | 89.4   | 84.2   | 79.0   |     |     |     |     |     |     | 120.7 |
| 666. FT/SEC        | 20000 | 75.0   | 72.2   | 76.6   | 79.8   | 82.5   | 84.8   | 88.0   | 90.8   | 91.2   | 84.5   | 78.9   |     |     |     |     |     |     | 121.5 |
|                    | 25000 | 77.4   | 71.3   | 76.4   | 78.9   | 81.4   | 83.7   | 86.9   | 88.7   | 88.8   | 83.2   | 77.7   |     |     |     |     |     |     | 120.5 |
|                    | 31500 | 76.3   | 70.5   | 72.7   | 77.6   | 80.0   | 83.5   | 85.3   | 88.1   | 87.8   | 81.9   | 75.7   |     |     |     |     |     |     | 120.4 |
|                    | 40000 | 74.3   | 68.4   | 70.8   | 74.6   | 77.4   | 80.6   | 83.2   | 84.5   | 84.3   | 79.5   | 71.5   |     |     |     |     |     |     | 118.7 |
|                    | 50000 | 76.0   | 67.7   | 69.2   | 71.5   | 73.1   | 76.5   | 79.5   | 79.9   | 80.1   | 76.4   | 68.3   |     |     |     |     |     |     | 118.8 |
|                    | 63000 | 70.7   | 67.2   | 68.8   | 69.5   | 70.7   | 72.7   | 73.5   | 73.2   | 73.5   | 71.3   | 68.8   |     |     |     |     |     |     | 114.4 |
|                    | 80000 | 71.9   | 69.7   | 71.1   | 71.3   | 72.9   | 74.8   | 73.1   | 73.5   | 73.7   | 72.4   | 71.8   |     |     |     |     |     |     | 119.8 |
| OVERALL MEASURED   |       |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |       |
| OVERALL CALCULATED |       | 90.8   | 91.9   | 93.9   | 97.4   | 100.0  | 101.7  | 103.4  | 104.1  | 104.1  | 100.1  | 97.8   |     |     |     |     |     |     | 128.5 |
| PND8               |       | 103.3  | 104.9  | 106.9  | 110.6  | 113.0  | 114.5  | 116.2  | 116.3  | 116.9  | 113.0  | 109.4  |     |     |     |     |     |     |       |

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OF POOR QUALITY

11-11-74 11:00 AM

MODEL SOUND PRESSURE LEVELS (50. DEG. F. TO 70 PERCENTY REL. HUM. 24V)

ANGLES FROM INLET IN DEGREES (AND RAD/ANG)

FREQ. (0.92)(1.08)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(3.0)(3.3)(3.6)(3.9)(4.2)(4.5)(4.8)(5.1)(5.4)(5.7)(6.0)(6.3)(6.6)(6.9)(7.2)(7.5)(7.8)(8.1)(8.4)(8.7)(9.0)(9.3)(9.6)(9.9)(10.2)

|                    | 50    | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 145  | 150  | 160  | 180  | 200  | 225  | 270  |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| SIDELINE 200. FT.  | 50    | 53   | 56   | 59   | 62   | 65   | 68   | 71   | 74   | 77   | 80   | 83   | 86   | 89   | 92   | 95   |
| VEHICLE            | 125   | 44.9 | 51.7 | 51.8 | 50.7 | 49.5 | 50.9 | 49.7 | 50.3 | 51.5 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5 |
| COMFIC             | 160   | 47.9 | 49.7 | 49.9 | 51.6 | 54.0 | 53.1 | 52.0 | 53.0 | 54.2 | 54.6 | 54.8 | 54.8 | 53.1 | 53.1 | 53.1 |
| LCC SCHEMECTADY    | 200   | 45.8 | 49.1 | 49.8 | 51.0 | 52.8 | 54.9 | 54.7 | 55.6 | 55.2 | 55.6 | 55.6 | 53.9 | 53.9 | 53.9 | 53.9 |
| DATE 11/22/74      | 250   | 49.7 | 51.5 | 53.0 | 54.1 | 54.7 | 55.8 | 55.8 | 56.0 | 55.6 | 55.0 | 55.0 | 53.0 | 53.0 | 53.0 | 53.0 |
| RUN 22/3           | 315   | 51.4 | 53.2 | 54.1 | 55.1 | 56.4 | 56.3 | 56.0 | 55.6 | 55.5 | 54.8 | 54.8 | 51.7 | 51.7 | 51.7 | 51.7 |
| TAPE               | 400   | 49.8 | 51.4 | 52.3 | 54.2 | 54.3 | 55.2 | 55.1 | 55.0 | 54.6 | 53.9 | 53.9 | 50.8 | 50.8 | 50.8 | 50.8 |
| BAP 29.5 MC        | 500   | 47.7 | 49.5 | 50.2 | 51.9 | 53.7 | 55.1 | 55.5 | 55.7 | 54.7 | 53.8 | 53.8 | 49.3 | 49.3 | 49.3 | 49.3 |
| (00122. 4/M2)      | 630   | 49.6 | 50.7 | 52.1 | 54.8 | 54.4 | 57.5 | 57.9 | 58.5 | 58.9 | 54.8 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 |
| TAMP 31. DEG F     | 800   | 50.7 | 51.8 | 53.5 | 54.7 | 54.5 | 57.7 | 58.5 | 58.7 | 57.2 | 54.1 | 48.7 | 48.7 | 48.7 | 48.7 | 48.7 |
| (273. DEG F)       | 1000  | 48.3 | 50.1 | 52.9 | 55.1 | 55.7 | 58.8 | 59.2 | 59.5 | 58.5 | 55.2 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 |
| TNET 29. DEG F     | 1250  | 49.9 | 51.8 | 54.2 | 57.3 | 59.3 | 60.9 | 61.8 | 62.1 | 60.1 | 55.9 | 47.5 | 47.5 | 47.5 | 47.5 | 47.5 |
| (1271. DEG F)      | 1500  | 55.0 | 57.3 | 60.8 | 64.6 | 67.2 | 69.0 | 68.8 | 67.9 | 65.6 | 61.7 | 58.1 | 58.1 | 58.1 | 58.1 | 58.1 |
| HACT 3.72 C/M3     | 2000  | 55.0 | 57.9 | 60.3 | 64.0 | 66.5 | 67.6 | 68.1 | 67.4 | 65.1 | 59.8 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 |
| (1.00372 C/M3)     | 2500  | 52.8 | 56.0 | 58.9 | 62.9 | 65.9 | 67.7 | 67.7 | 65.7 | 64.4 | 58.8 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 |
| MFA 6544. RPM      | 3150  | 54.7 | 57.2 | 60.1 | 64.6 | 67.9 | 68.9 | 70.4 | 68.8 | 68.5 | 60.3 | 50.7 | 50.7 | 50.7 | 50.7 | 50.7 |
| ( 727. RAD/SEC)    | 4000  | 52.8 | 56.2 | 59.6 | 64.7 | 67.5 | 68.5 | 70.1 | 68.5 | 66.9 | 59.0 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 |
| MFK 7139. RPM      | 5000  | 51.3 | 54.6 | 58.8 | 63.2 | 66.7 | 67.9 | 69.3 | 68.7 | 66.0 | 58.1 | 47.5 | 47.5 | 47.5 | 47.5 | 47.5 |
| ( 747. RAD/SEC)    | 6300  | 48.7 | 52.2 | 55.5 | 60.6 | 63.6 | 65.2 | 66.6 | 66.4 | 64.0 | 55.5 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| MFD 8823. RPM      | 8000  | 45.2 | 50.1 | 53.2 | 58.8 | 60.8 | 63.1 | 64.4 | 64.6 | 62.4 | 53.1 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 |
| ( 924. RAD/SEC)    | 10000 | 43.1 | 47.8 | 51.9 | 57.1 | 59.3 | 61.9 | 62.6 | 62.8 | 59.9 | 50.6 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 |
| NO. OF BLADES 15   | 12500 | 41.3 | 43.4 | 47.9 | 53.7 | 56.8 | 58.0 | 59.8 | 59.8 | 56.5 | 45.6 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 |
| FAN TIP SPEED      | 16000 | 38.9 | 36.7 | 41.7 | 46.6 | 50.1 | 52.3 | 53.0 | 53.7 | 48.7 | 36.9 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 |
| 600. FT/SEC        | 20000 | 30.4 | 30.7 | 37.3 | 41.6 | 44.6 | 46.5 | 48.2 | 48.0 | 43.6 | 28.9 | 6.1  | 6.1  | 6.1  | 6.1  | 6.1  |
|                    | 25000 | 24.1 | 22.1 | 29.8 | 33.8 | 36.7 | 38.4 | 39.8 | 38.1 | 32.0 | 15.4 |      |      |      |      |      |
|                    | 31500 | 19.2 | 9.9  | 15.6 | 22.4 | 25.4 | 28.1 | 27.5 | 29.8 | 17.0 |      |      |      |      |      |      |
|                    | 40000 |      |      |      | 4.5  | 8.1  | 10.2 | 9.5  | 4.4  |      |      |      |      |      |      |      |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| OVERALL CALCULATED |       | 64.1 | 67.1 | 69.5 | 73.3 | 75.9 | 77.3 | 76.2 | 77.4 | 75.6 | 69.8 | 63.8 | 63.8 | 63.8 | 63.8 | 63.8 |
| P438               |       | 77.2 | 80.0 | 82.8 | 86.8 | 89.5 | 90.8 | 91.8 | 90.9 | 89.7 | 83.1 | 74.8 | 74.8 | 74.8 | 74.8 | 74.8 |



MODEL SOUND PRESSURE LEVELS (50, DEG. F. TO 70 PERCENT REL. HUM. SAT)

ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                    | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) |            |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
|--------------------|-------|---|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------|--------|--------|--------|--------|--------|
|                    |       | 53. (0.92)                                | 62. (1.08) | 71. (1.24) | 81. (1.41) | 91. (1.59) | 101. (1.76) | 111. (1.94) | 122. (2.13) | 133. (2.32) | 145. (2.52) | 150. (2.73) | 0. (0) | 0. (0) | 0. (0) | 0. (0) | 0. (0) | 0. (0) |
| SIDELINE 200. FT.  | 50    |   |            |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
| ( 60.96 M)         | 63    |   |            |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
| VEHICLE R-55       | 100   | 45.6                                      | 49.4       | 51.1       | 52.3       | 53.3       | 52.9        | 52.2        | 52.0        | 54.3        | 57.0        | 57.3        |        |        |        |        |        |        |
| CONFIG 6 AB        | 125   | 53.0                                      | 54.6       | 54.7       | 55.4       | 56.7       | 57.0        | 57.0        | 58.3        | 57.2        | 57.9        | 57.1        |        |        |        |        |        |        |
| LCC SCHEMECTADY    | 160   | 50.9                                      | 52.2       | 52.9       | 54.5       | 54.9       | 55.3        | 56.2        | 56.9        | 57.1        | 57.8        | 56.6        |        |        |        |        |        |        |
| DATE 11/22/74      | 200   | 49.8                                      | 50.9       | 52.3       | 54.2       | 55.0       | 57.9        | 57.7        | 58.0        | 58.7        | 59.1        | 58.4        |        |        |        |        |        |        |
| RUN 22/4           | 250   | 53.5                                      | 54.8       | 57.0       | 58.9       | 59.2       | 60.1        | 60.6        | 61.2        | 60.8        | 59.7        | 57.2        |        |        |        |        |        |        |
| TAPE               | 315   | 54.6                                      | 56.0       | 56.9       | 59.1       | 58.7       | 59.5        | 59.2        | 58.4        | 58.5        | 58.1        | 58.5        |        |        |        |        |        |        |
| BAR 29.6 MC        | 400   | 53.3                                      | 54.9       | 55.6       | 57.0       | 57.6       | 58.2        | 58.1        | 59.0        | 57.9        | 57.7        | 54.5        |        |        |        |        |        |        |
| ( 100122. N/M2)    | 500   | 50.4                                      | 52.5       | 53.2       | 55.4       | 56.2       | 57.6        | 58.5        | 58.4        | 57.7        | 57.0        | 53.0        |        |        |        |        |        |        |
| TANG 31. DEG F     | 630   | 52.1                                      | 53.2       | 55.4       | 55.3       | 56.7       | 60.5        | 60.7        | 61.5        | 60.1        | 57.6        | 53.0        |        |        |        |        |        |        |
| ( 1273. DEG K)     | 800   | 53.2                                      | 54.3       | 55.7       | 57.7       | 58.8       | 60.4        | 61.0        | 61.4        | 59.7        | 58.8        | 51.7        |        |        |        |        |        |        |
| TWCT 29. DEG F     | 1000  | 51.1                                      | 53.1       | 54.8       | 58.6       | 59.4       | 61.3        | 61.9        | 62.3        | 60.3        | 58.0        | 56.4        |        |        |        |        |        |        |
| ( 1271. DEG K)     | 1250  | 52.2                                      | 53.6       | 56.7       | 61.5       | 61.8       | 63.7        | 64.0        | 63.6        | 61.0        | 57.2        | 50.0        |        |        |        |        |        |        |
| MACT 3.72 GM/M3    | 1600  | 54.5                                      | 56.8       | 59.0       | 62.9       | 64.0       | 65.5        | 66.1        | 66.4        | 63.6        | 57.7        | 49.6        |        |        |        |        |        |        |
| ( 1.00372 KG/M3)   | 2000  | 60.0                                      | 63.7       | 65.1       | 69.0       | 70.3       | 70.9        | 71.4        | 72.9        | 68.6        | 62.8        | 53.9        |        |        |        |        |        |        |
| NFA 7712. RPM      | 2500  | 56.0                                      | 60.2       | 62.4       | 64.1       | 69.6       | 71.2        | 70.2        | 68.4        | 67.1        | 58.8        | 50.7        |        |        |        |        |        |        |
| ( 807. RAD/SEC)    | 3150  | 56.2                                      | 59.4       | 61.9       | 66.9       | 69.1       | 70.9        | 71.6        | 69.1        | 68.7        | 60.1        | 50.9        |        |        |        |        |        |        |
| NFK 7929. RPM      | 4000  | 57.3                                      | 60.7       | 63.9       | 68.7       | 70.7       | 72.7        | 73.1        | 73.5        | 70.4        | 63.3        | 53.8        |        |        |        |        |        |        |
| ( 839. RAD/SEC)    | 5000  | 54.0                                      | 57.9       | 61.3       | 65.9       | 69.2       | 70.7        | 71.5        | 70.7        | 68.0        | 59.8        | 49.1        |        |        |        |        |        |        |
| NFB 8823. RPM      | 6300  | 52.4                                      | 55.9       | 60.0       | 65.1       | 67.6       | 69.5        | 69.8        | 69.9        | 67.8        | 58.5        | 47.8        |        |        |        |        |        |        |
| ( 924. RAD/SEC)    | 8000  | 48.7                                      | 53.6       | 57.7       | 63.3       | 64.8       | 67.3        | 67.7        | 67.9        | 65.1        | 55.8        | 43.6        |        |        |        |        |        |        |
| NO. OF BLADES 15   | 10000 | 45.8                                      | 50.5       | 55.2       | 61.1       | 63.3       | 65.4        | 65.8        | 65.8        | 63.4        | 53.1        | 40.2        |        |        |        |        |        |        |
| FAH TIP SPEED      | 12500 | 42.8                                      | 47.2       | 51.9       | 57.7       | 60.6       | 62.3        | 63.3        | 62.5        | 59.8        | 48.8        | 33.6        |        |        |        |        |        |        |
| ( 673. FT/SEC)     | 16000 | 35.9                                      | 40.2       | 45.0       | 50.6       | 54.1       | 56.0        | 57.0        | 56.5        | 51.9        | 39.2        | 22.4        |        |        |        |        |        |        |
| OVERALL CALCULATED | 20000 | 29.2                                      | 34.5       | 39.5       | 45.9       | 48.3       | 51.9        | 51.9        | 51.5        | 46.3        | 31.6        | 9.9         |        |        |        |        |        |        |
| PNDB               | 25000 | 21.1                                      | 25.3       | 30.8       | 37.6       | 41.0       | 42.9        | 43.8        | 42.3        | 35.5        | 19.1        |             |        |        |        |        |        |        |
|                    | 31500 | 8.2                                       | 13.4       | 19.3       | 26.9       | 29.7       | 31.9        | 31.7        | 29.1        | 20.3        |             |             |        |        |        |        |        |        |
|                    | 40000 |   |            | 1.3        | 8.5        | 11.8       | 13.7        | 13.7        | 7.9         |             |             |             |        |        |        |        |        |        |
|                    | 50000 |   |            |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
|                    | 63000 |   |            |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
|                    | 80000 |   |            |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
| OVERALL CALCULATED |       | 67.2                                      | 69.9       | 72.3       | 76.7       | 78.5       | 80.1        | 80.6        | 80.3        | 77.9        | 72.8        | 67.1        |        |        |        |        |        |        |
| PNDB               |       | 80.2                                      | 83.2       | 86.0       | 90.4       | 92.2       | 94.0        | 94.4        | 94.4        | 91.9        | 85.0        | 77.5        |        |        |        |        |        |        |

|                           | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 150    | 160   | 170   | 180   | 190   | 200   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| FREQ.                     | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.0) | (3.3) | (3.6) | (4.0) | (4.5) |
| RADIAL 17. FT.            | 50     |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |
| ( 5. M)                   | 60     |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |
| VEHICLE R-55              | 160    | 69.0   | 72.1   | 72.9   | 73.9   | 75.1   | 75.4   | 75.1   | 76.9   | 79.0   | 83.9   | 87.6  |       |       |       | 112.9 |
| CONFIG LAD                | 125    | 77.0   | 77.1   | 75.9   | 76.4   | 79.4   | 79.9   | 79.9   | 81.4   | 81.7   | 84.1   | 87.1  |       |       |       | 114.6 |
| LOC SCHEWECTADY           | 160    | 74.8   | 75.4   | 75.1   | 76.4   | 77.4   | 77.4   | 79.4   | 80.9   | 82.2   | 85.1   | 87.6  |       |       |       | 114.7 |
| DATE 11/22/74             | 200    | 73.5   | 73.9   | 74.6   | 76.2   | 77.9   | 79.9   | 80.1   | 82.6   | 83.5   | 86.1   | 88.6  |       |       |       | 115.7 |
| RUN 22/5                  | 250    | 78.0   | 78.1   | 79.4   | 80.1   | 80.9   | 82.1   | 83.3   | 85.1   | 85.7   | 87.1   | 88.3  |       |       |       | 117.9 |
| TAPE                      | 315    | 76.5   | 79.1   | 79.4   | 80.4   | 83.6   | 81.6   | 81.8   | 83.1   | 83.7   | 85.3   | 86.8  |       |       |       | 116.3 |
| BAR 20.6 HG               | 400    | 77.8   | 78.6   | 78.1   | 79.4   | 79.6   | 80.7   | 81.6   | 82.9   | 83.2   | 84.8   | 85.8  |       |       |       | 115.7 |
| (00122. N/M2)             | 500    | 74.8   | 75.9   | 75.9   | 77.4   | 78.9   | 80.2   | 81.9   | 83.2   | 83.5   | 84.3   | 84.6  |       |       |       | 115.1 |
| TAMB 31. DEC F            | 600    | 76.6   | 76.9   | 78.1   | 79.9   | 81.9   | 82.9   | 84.4   | 84.9   | 85.2   | 85.3   | 84.6  |       |       |       | 116.9 |
| (273. DEC K)              | 800    | 77.9   | 78.1   | 78.9   | 80.4   | 81.9   | 82.9   | 83.8   | 85.2   | 85.2   | 86.1   | 84.1  |       |       |       | 119.9 |
| YMET 29. DEC F            | 1000   | 78.1   | 77.4   | 78.1   | 80.4   | 81.9   | 84.0   | 85.3   | 86.4   | 86.0   | 85.3   | 83.4  |       |       |       | 117.5 |
| (271. DEC K)              | 1250   | 77.7   | 77.7   | 80.1   | 82.6   | 84.2   | 85.5   | 87.1   | 87.9   | 87.5   | 85.8   | 83.1  |       |       |       | 119.2 |
| NACT 3.72 CM/MS           | 1630   | 79.9   | 81.2   | 82.6   | 85.1   | 87.2   | 88.6   | 89.8   | 90.6   | 89.5   | 86.4   | 82.4  |       |       |       | 121.5 |
| (00372 KG/MS)             | 2000   | 85.4   | 88.5   | 88.4   | 91.6   | 93.0   | 94.3   | 95.1   | 96.1   | 95.8   | 91.7   | 87.4  |       |       |       | 127.7 |
| NFA 7712. RPM             | 2500   | 82.4   | 84.7   | 86.4   | 90.6   | 93.0   | 94.5   | 94.1   | 93.6   | 94.0   | 88.9   | 84.1  |       |       |       | 126.0 |
| ( 807. RAD/SEC)           | 3150   | 82.4   | 83.7   | 86.1   | 89.7   | 92.8   | 94.5   | 95.8   | 94.4   | 96.0   | 90.2   | 85.8  |       |       |       | 126.8 |
| NPK 7029. RPM             | 4000   | 84.4   | 86.2   | 88.1   | 92.9   | 94.8   | 94.7   | 98.5   | 99.5   | 97.9   | 94.4   | 89.8  |       |       |       | 129.8 |
| ( 830. RAD/SEC)           | 5000   | 81.1   | 83.4   | 85.3   | 89.4   | 93.0   | 95.0   | 96.8   | 96.7   | 95.8   | 90.8   | 86.0  |       |       |       | 127.8 |
| NPD 8823. RPM             | 6300   | 80.2   | 82.8   | 85.7   | 89.3   | 92.6   | 94.2   | 95.7   | 97.3   | 96.7   | 90.8   | 85.8  |       |       |       | 127.5 |
| ( 924. RAD/SEC)           | 8000   | 77.9   | 81.7   | 83.6   | 85.3   | 90.6   | 92.6   | 94.5   | 96.0   | 95.8   | 90.5   | 84.4  |       |       |       | 126.4 |
| NO. OF BLADES 15          | 10000  | 77.2   | 80.1   | 83.6   | 88.9   | 90.9   | 93.0   | 94.8   | 95.8   | 95.9   | 90.5   | 84.9  |       |       |       | 126.6 |
| FAN TIP SPEED 673. FT/SEC | 12500  | 76.9   | 78.8   | 82.2   | 87.4   | 89.8   | 91.9   | 93.9   | 95.4   | 95.1   | 89.7   | 84.1  |       |       |       | 124.8 |
|                           | 16000  | 74.4   | 77.0   | 79.3   | 84.3   | 87.0   | 89.5   | 91.7   | 93.6   | 92.6   | 86.7   | 82.5  |       |       |       | 124.0 |
|                           | 20000  | 75.3   | 76.4   | 79.1   | 83.8   | 86.5   | 89.3   | 91.7   | 93.9   | 93.7   | 87.8   | 82.1  |       |       |       | 124.0 |
|                           | 25000  | 75.4   | 75.8   | 77.9   | 82.9   | 85.4   | 88.4   | 90.7   | 93.0   | 93.3   | 87.0   | 81.0  |       |       |       | 124.0 |
|                           | 31500  | 74.8   | 74.5   | 76.2   | 82.1   | 84.5   | 87.7   | 89.5   | 91.8   | 91.3   | 85.4   | 78.7  |       |       |       | 124.2 |
|                           | 40000  | 74.3   | 71.9   | 74.3   | 78.9   | 81.4   | 84.6   | 87.4   | 88.3   | 88.5   | 83.5   | 74.5  |       |       |       | 122.7 |
|                           | 50000  | 74.0   | 69.9   | 71.4   | 75.8   | 77.4   | 80.5   | 83.2   | 83.9   | 84.1   | 80.1   | 69.8  |       |       |       | 120.4 |
|                           | 63000  | 72.0   | 69.0   | 70.8   | 73.7   | 75.2   | 78.5   | 77.7   | 78.5   | 77.7   | 73.8   | 67.3  |       |       |       | 118.3 |
|                           | 80000  | 73.1   | 71.7   | 72.8   | 76.6   | 78.1   | 78.9   | 77.8   | 80.2   | 77.2   | 72.2   | 68.3  |       |       |       | 123.7 |
| OVERALL MEASURED          |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |
| OVERALL CALCULATED        | 93.5   | 95.2   | 96.8   | 100.8  | 103.0  | 104.6  | 106.3  | 107.4  | 106.9  | 102.0  | 99.8   |       |       |       |       | 130.6 |
| PNDB                      | 106.7  | 108.5  | 110.2  | 114.1  | 116.1  | 117.9  | 119.3  | 120.2  | 119.4  | 116.8  | 112.2  |       |       |       |       |       |

11/25/64 11:15 AM 11/25/64 11:15 AM 11/25/64 11:15 AM

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.              | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0. | 0. | 0. | 0. | 0.  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|-----|
|                    | (0.92) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 0. | 0. | 0. | 0. | 0.) |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| ( 60.96 M)         | 63     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| VEHICLE R-55       | 100    | 45.4   | 49.4   | 50.8   | 52.2   | 53.5   | 53.7   | 52.9   | 53.0   | 54.5   | 57.3   | 57.5 |    |    |    |    |     |
| CONFIG 6 M         | 125    | 53.3   | 54.3   | 53.7   | 54.6   | 50.7   | 50.1   | 57.6   | 55.3   | 57.2   | 57.4   | 56.0 |    |    |    |    |     |
| L3C SCHENECTADY    | 160    | 50.9   | 52.5   | 52.9   | 54.6   | 55.6   | 55.8   | 57.0   | 57.7   | 57.6   | 50.3   | 57.1 |    |    |    |    |     |
| DATE 11/22/74      | 200    | 49.6   | 50.9   | 52.3   | 54.2   | 56.1   | 57.0   | 57.7   | 59.3   | 50.7   | 59.1   | 57.0 |    |    |    |    |     |
| RUN 22/5           | 250    | 54.0   | 55.0   | 57.0   | 58.1   | 59.0   | 60.1   | 60.0   | 61.7   | 60.0   | 60.0   | 57.9 |    |    |    |    |     |
| TAPE               | 315    | 54.4   | 56.0   | 56.9   | 58.3   | 58.7   | 59.5   | 59.6   | 59.6   | 58.7   | 58.1   | 55.7 |    |    |    |    |     |
| BAR 29.6 HG        | 400    | 53.5   | 55.4   | 55.6   | 57.2   | 57.6   | 56.4   | 58.9   | 59.3   | 56.1   | 57.4   | 54.5 |    |    |    |    |     |
| (88122. N/M2)      | 500    | 50.4   | 52.5   | 53.2   | 55.2   | 56.7   | 57.9   | 59.0   | 59.4   | 58.2   | 56.8   | 53.0 |    |    |    |    |     |
| YANG 31. DEG F     | 630    | 52.1   | 53.4   | 55.4   | 57.6   | 59.7   | 60.8   | 61.4   | 61.0   | 59.9   | 57.6   | 52.5 |    |    |    |    |     |
| (273. DEG K)       | 800    | 53.2   | 54.5   | 56.0   | 58.0   | 59.5   | 60.4   | 60.8   | 61.2   | 59.7   | 57.1   | 52.0 |    |    |    |    |     |
| T-RET 29. DEG F    | 1000   | 51.3   | 53.6   | 55.1   | 57.8   | 59.4   | 61.3   | 62.2   | 62.3   | 60.3   | 57.2   | 50.0 |    |    |    |    |     |
| (271. DEG K)       | 1250   | 52.7   | 53.8   | 57.0   | 60.0   | 61.6   | 63.7   | 63.8   | 63.6   | 61.6   | 57.2   | 50.3 |    |    |    |    |     |
| HACT 3.72 CM/M3    | 1500   | 54.7   | 57.1   | 59.3   | 62.1   | 64.5   | 65.8   | 66.3   | 66.1   | 63.4   | 57.7   | 49.1 |    |    |    |    |     |
| (.00372 KG/M3)     | 2030   | 60.0   | 64.2   | 64.8   | 68.5   | 70.0   | 71.1   | 71.4   | 73.4   | 69.4   | 62.6   | 53.0 |    |    |    |    |     |
| MFA 7712. RPM      | 2500   | 56.8   | 60.2   | 62.7   | 67.4   | 69.9   | 71.2   | 70.2   | 68.7   | 67.4   | 59.6   | 49.9 |    |    |    |    |     |
| ( 807. RAD/SEC)    | 3150   | 56.4   | 58.9   | 62.1   | 66.1   | 69.4   | 70.9   | 71.6   | 69.1   | 69.8   | 60.3   | 50.9 |    |    |    |    |     |
| MFK 7929. RPM      | 4000   | 57.8   | 60.9   | 63.6   | 68.0   | 71.0   | 72.7   | 73.9   | 73.8   | 70.4   | 63.0   | 53.0 |    |    |    |    |     |
| ( 830. RAD/SEC)    | 5000   | 54.3   | 57.9   | 61.6   | 66.2   | 69.0   | 70.7   | 72.8   | 70.7   | 67.7   | 59.6   | 49.4 |    |    |    |    |     |
| MFD 8023. RPM      | 6300   | 52.4   | 56.4   | 60.3   | 64.9   | 67.9   | 69.2   | 70.1   | 70.4   | 67.8   | 58.5   | 47.4 |    |    |    |    |     |
| ( 924. RAD/SEC)    | 8000   | 48.7   | 54.1   | 57.0   | 62.3   | 64.8   | 66.6   | 67.7   | 67.9   | 65.4   | 56.3   | 43.1 |    |    |    |    |     |
| NO. OF BLADES 15   | 10000  | 46.1   | 50.7   | 55.4   | 61.3   | 63.6   | 65.4   | 66.3   | 65.0   | 63.4   | 53.0   | 39.7 |    |    |    |    |     |
| FAN TIP SPEED      | 12500  | 43.8   | 46.9   | 51.7   | 57.7   | 60.3   | 62.0   | 63.1   | 62.8   | 59.6   | 48.0   | 33.1 |    |    |    |    |     |
| 673. FT/SEC        | 16000  | 39.9   | 41.0   | 43.9   | 50.9   | 53.9   | 56.0   | 57.0   | 56.7   | 51.9   | 39.4   | 22.1 |    |    |    |    |     |
|                    | 20000  | 30.7   | 35.0   | 39.8   | 45.6   | 48.6   | 51.0   | 51.9   | 51.3   | 44.3   | 31.9   | 9.4  |    |    |    |    |     |
|                    | 25000  | 22.1   | 26.6   | 31.3   | 37.8   | 40.7   | 43.2   | 43.8   | 42.3   | 36.5   | 19.1   |      |    |    |    |    |     |
|                    | 31500  | 8.7    | 13.9   | 19.1   | 26.9   | 29.9   | 32.4   | 31.7   | 29.3   | 20.5   |        |      |    |    |    |    |     |
|                    | 40000  |        |        | 1.6    | 8.7    | 12.1   | 14.2   | 13.7   | 8.1    |        |        |      |    |    |    |    |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| OVERALL CALCULATED |        | 67.3   | 70.2   | 72.3   | 76.3   | 78.6   | 80.1   | 80.7   | 80.6   | 78.8   | 72.2   | 67.1 |    |    |    |    |     |
| PNDB               |        | 88.4   | 83.5   | 85.9   | 90.3   | 92.4   | 94.8   | 94.8   | 94.7   | 92.8   | 85.9   | 77.2 |    |    |    |    |     |

|                    | FREQ  | 53      | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 155    | 165    | 175    | 185    | 195    | 205    |
|--------------------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                    |       | (10.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.95) | (3.18) | (3.42) | (3.66) | (3.91) |
| RAJIA 17. FT.      | 50    |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ( S. M.)           | 63    |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE            | 100   | 64.0    | 65.4   | 70.1   | 72.9   | 73.6   | 73.4   | 69.9   | 67.4   | 69.5   | 72.0   | 75.4   |        |        |        |        | 105.5  |
| CONFIG             | 125   | 68.0    | 67.1   | 71.9   | 68.7   | 70.0   | 68.2   | 67.4   | 71.2   | 71.5   | 72.3   | 74.0   |        |        |        |        | 104.6  |
| LOC SCHENECTADY    | 160   | 65.0    | 66.6   | 66.6   | 67.2   | 67.0   | 68.4   | 69.6   | 70.4   | 71.7   | 74.1   | 75.4   |        |        |        |        | 104.1  |
| DATE 11/22/74      | 200   | 66.0    | 66.9   | 66.9   | 67.7   | 69.1   | 70.4   | 71.1   | 72.6   | 73.8   | 75.0   | 76.6   |        |        |        |        | 105.6  |
| RUN 22/6           | 250   | 67.8    | 69.1   | 69.9   | 69.4   | 69.9   | 70.6   | 71.4   | 72.6   | 73.0   | 74.3   | 75.3   |        |        |        |        | 105.0  |
| TAPE               | 315   | 69.6    | 70.1   | 70.4   | 71.2   | 71.4   | 72.4   | 72.3   | 72.4   | 73.2   | 74.1   | 74.3   |        |        |        |        | 105.1  |
| BAR 29.6 HG        | 400   | 67.8    | 69.1   | 69.1   | 69.9   | 70.5   | 71.7   | 72.6   | 73.1   | 73.2   | 74.3   | 75.0   |        |        |        |        | 105.0  |
| (100122. N/M2)     | 500   | 66.3    | 67.6   | 67.4   | 68.7   | 70.4   | 71.2   | 72.6   | 73.9   | 74.0   | 75.1   | 75.9   |        |        |        |        | 105.0  |
| YAMB 31. DEG F     | 630   | 68.9    | 69.4   | 69.9   | 71.9   | 73.4   | 74.9   | 75.9   | 76.7   | 77.0   | 78.0   | 78.9   |        |        |        |        | 105.0  |
| (273. DEG K)       | 800   | 70.9    | 71.1   | 71.9   | 72.2   | 74.1   | 75.4   | 76.3   | 77.7   | 77.7   | 78.1   | 78.1   |        |        |        |        | 105.0  |
| TGET 29. DEG F     | 1000  | 67.6    | 69.1   | 70.1   | 72.4   | 74.6   | 76.7   | 77.8   | 79.4   | 79.7   | 79.6   | 74.1   |        |        |        |        | 110.5  |
| (271. DEG K)       | 1250  | 79.4    | 78.4   | 78.8   | 82.3   | 84.9   | 87.7   | 86.3   | 86.4   | 85.2   | 86.6   | 79.0   |        |        |        |        | 110.0  |
| NACT 3.72 CM/MS    | 1600  | 73.9    | 74.2   | 74.9   | 76.1   | 80.0   | 82.8   | 83.3   | 84.4   | 83.2   | 83.6   | 77.1   |        |        |        |        | 110.4  |
| (1.00372 M/MS)     | 2000  | 74.2    | 76.0   | 77.1   | 79.6   | 81.5   | 83.0   | 84.6   | 84.9   | 83.8   | 83.2   | 77.4   |        |        |        |        | 110.1  |
| NFA 5399. RPM      | 2500  | 75.4    | 76.5   | 78.1   | 81.6   | 84.5   | 86.3   | 88.8   | 89.6   | 90.3   | 87.4   | 88.6   |        |        |        |        | 110.4  |
| ( 505. RAD/SEC)    | 3150  | 73.4    | 74.5   | 77.1   | 79.7   | 83.5   | 85.3   | 87.0   | 87.6   | 88.3   | 85.9   | 79.8   |        |        |        |        | 110.7  |
| RPM 5551. RPM      | 4000  | 72.7    | 74.2   | 76.6   | 80.2   | 83.5   | 86.0   | 87.0   | 88.3   | 89.2   | 86.9   | 80.3   |        |        |        |        | 110.3  |
| ( 821. RAD/SEC)    | 5000  | 70.6    | 72.4   | 74.8   | 77.9   | 81.5   | 84.2   | 85.4   | 86.7   | 87.1   | 84.8   | 78.7   |        |        |        |        | 110.5  |
| NFD 8823. RPM      | 6300  | 70.2    | 70.8   | 73.0   | 76.5   | 80.1   | 82.5   | 84.2   | 85.5   | 86.7   | 83.6   | 78.6   |        |        |        |        | 110.5  |
| ( 924. RAD/SEC)    | 8000  | 70.6    | 69.7   | 71.8   | 75.5   | 79.1   | 81.6   | 83.0   | 84.8   | 85.3   | 83.0   | 78.7   |        |        |        |        | 110.6  |
| NO. OF BLADES 15   | 10000 | 72.2    | 68.6   | 71.1   | 74.6   | 77.9   | 81.0   | 82.8   | 84.5   | 85.9   | 82.8   | 79.5   |        |        |        |        | 110.6  |
| FAN TIP SPEED      | 12500 | 75.2    | 67.5   | 69.7   | 73.4   | 77.3   | 79.4   | 81.9   | 83.6   | 85.6   | 81.4   | 80.6   |        |        |        |        | 110.1  |
| (71. FT/SEC)       | 16000 | 73.2    | 66.0   | 67.6   | 70.8   | 75.3   | 77.0   | 79.7   | 82.9   | 83.4   | 78.2   | 80.5   |        |        |        |        | 113.7  |
|                    | 20000 | 72.3    | 65.7   | 67.4   | 70.6   | 74.2   | 76.6   | 78.7   | 81.9   | 83.9   | 79.4   | 79.4   |        |        |        |        | 113.0  |
|                    | 25000 | 71.6    | 66.6   | 65.9   | 69.2   | 72.4   | 74.9   | 77.2   | 79.7   | 80.6   | 77.5   | 75.5   |        |        |        |        | 113.1  |
|                    | 31500 | 67.8    | 66.5   | 65.7   | 68.6   | 71.5   | 74.2   | 76.3   | 79.3   | 80.3   | 76.6   | 78.2   |        |        |        |        | 113.2  |
|                    | 40000 | 67.8    | 66.7   | 65.1   | 67.1   | 68.4   | 71.6   | 73.9   | 76.0   | 77.3   | 73.7   | 66.7   |        |        |        |        | 110.0  |
|                    | 50000 | 70.5    | 67.9   | 66.4   | 67.5   | 67.1   | 68.5   | 71.2   | 71.2   | 72.3   | 70.1   | 64.5   |        |        |        |        | 109.0  |
|                    | 63000 | 71.5    | 68.0   | 68.0   | 68.0   | 67.0   | 67.7   | 69.0   | 67.0   | 67.5   | 66.5   | 64.3   |        |        |        |        | 111.0  |
|                    | 80000 | 71.9    | 68.5   | 68.0   | 68.6   | 68.4   | 70.0   | 70.6   | 69.0   | 68.5   | 67.9   | 68.0   |        |        |        |        | 110.5  |
| OVERALL MEASURED   |       |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |       | 84.6    | 84.1   | 87.4   | 90.2   | 93.0   | 95.2   | 96.6   | 97.6   | 98.1   | 96.1   | 91.9   |        |        |        |        | 110.2  |
| PNDP               |       | 97.8    | 98.5   | 100.2  | 103.1  | 105.9  | 109.1  | 109.6  | 110.4  | 110.0  | 109.2  | 103.0  |        |        |        |        |        |

MODEL SOUND PRESSURE LEVELS (50, DEG. F., 70 PERCENT REL. HUM., DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | FREQ. | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0. | 0. | 0. | 0. | 0. | 0. |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----|----|----|----|----|
|                    |       | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0. | 0. | 0. | 0. | 0. | 0. |
| SIDELINE 200. FT.  | 50    |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
| ( 60.96 M )        | 63    |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
| VEHICLE R=55       | 100   | 40.4   | 42.7   | 46.1   | 51.2   | 52.0   | 51.7   | 47.7   | 44.3   | 45.0   | 46.3   | 45.3   |    |    |    |    |    |    |
| CONFIG 6 68        | 125   | 44.3   | 44.3   | 49.7   | 46.9   | 49.0   | 46.3   | 45.1   | 48.0   | 46.9   | 45.7   | 44.6   |    |    |    |    |    |    |
| LOC SCHENECTADY    | 160   | 41.2   | 43.7   | 44.4   | 45.3   | 45.9   | 46.5   | 47.2   | 47.2   | 47.1   | 47.3   | 44.9   |    |    |    |    |    |    |
| DATE 11/22/74      | 200   | 42.1   | 43.9   | 44.6   | 45.7   | 47.3   | 46.4   | 48.7   | 49.3   | 48.7   | 46.9   | 46.2   |    |    |    |    |    |    |
| RUN 22/6           | 250   | 43.7   | 45.0   | 47.5   | 47.4   | 49.0   | 46.6   | 49.3   | 49.2   | 48.1   | 47.2   | 44.5   |    |    |    |    |    |    |
| TAPE               | 315   | 44.9   | 47.0   | 47.9   | 49.1   | 49.4   | 50.3   | 49.7   | 48.9   | 48.2   | 46.8   | 43.2   |    |    |    |    |    |    |
| BAR 29.6 HG        | 400   | 43.5   | 45.9   | 46.6   | 47.7   | 48.6   | 49.4   | 49.9   | 49.5   | 48.1   | 46.9   | 42.5   |    |    |    |    |    |    |
| (00122. N/M2)      | 500   | 41.9   | 44.3   | 44.7   | 46.4   | 48.2   | 48.9   | 49.8   | 50.2   | 48.7   | 47.5   | 42.3   |    |    |    |    |    |    |
| TAMB 31. DEG F     | 630   | 44.3   | 45.9   | 47.1   | 49.6   | 51.2   | 52.5   | 52.9   | 52.8   | 51.6   | 49.1   | 43.0   |    |    |    |    |    |    |
| (273. DEG K)       | 800   | 46.2   | 47.5   | 49.0   | 49.7   | 51.9   | 52.9   | 53.3   | 53.7   | 52.2   | 50.1   | 43.0   |    |    |    |    |    |    |
| THET 29. DEG F     | 1000  | 42.8   | 45.4   | 47.1   | 49.8   | 52.2   | 54.1   | 54.7   | 55.3   | 54.0   | 51.4   | 41.6   |    |    |    |    |    |    |
| (271. DEG K)       | 1250  | 54.4   | 54.5   | 55.5   | 59.5   | 62.3   | 64.9   | 63.0   | 62.1   | 59.3   | 56.2   | 47.0   |    |    |    |    |    |    |
| NACT 3.72 CM/M3    | 1600  | 48.7   | 50.1   | 51.5   | 55.1   | 57.2   | 59.8   | 59.0   | 59.9   | 57.1   | 54.9   | 43.9   |    |    |    |    |    |    |
| (.00372 KG/M3)     | 2000  | 48.7   | 51.7   | 53.6   | 56.5   | 58.5   | 59.9   | 60.9   | 60.2   | 57.4   | 54.1   | 43.6   |    |    |    |    |    |    |
| NFA 5399. RPM      | 2500  | 49.8   | 52.0   | 54.4   | 58.4   | 61.4   | 63.0   | 64.9   | 64.7   | 63.6   | 58.1   | 46.4   |    |    |    |    |    |    |
| ( 565. RAD/SEC)    | 3150  | 47.4   | 49.7   | 53.1   | 56.1   | 60.1   | 61.7   | 62.9   | 62.3   | 61.2   | 56.1   | 44.9   |    |    |    |    |    |    |
| NFR 5551. RPM      | 4000  | 46.1   | 48.9   | 52.1   | 56.2   | 59.7   | 62.0   | 62.4   | 62.5   | 61.6   | 56.3   | 44.3   |    |    |    |    |    |    |
| ( 581. RAD/SEC)    | 5000  | 43.6   | 46.9   | 50.1   | 53.7   | 57.5   | 59.9   | 60.5   | 60.7   | 59.2   | 53.8   | 42.1   |    |    |    |    |    |    |
| NFD 6823. RPM      | 6300  | 42.4   | 44.4   | 47.5   | 51.6   | 55.4   | 57.5   | 58.8   | 58.7   | 57.8   | 51.3   | 40.1   |    |    |    |    |    |    |
| ( 924. RAD/SEC)    | 8000  | 41.5   | 42.1   | 45.2   | 49.5   | 53.3   | 55.6   | 56.2   | 56.6   | 54.9   | 48.8   | 37.4   |    |    |    |    |    |    |
| NO. OF BLADES 15   | 10000 | 41.1   | 39.2   | 42.9   | 47.1   | 50.6   | 53.4   | 54.3   | 54.6   | 53.4   | 45.9   | 34.7   |    |    |    |    |    |    |
| FAN TIP SPEED      | 12500 | 39.3   | 35.7   | 39.2   | 43.7   | 47.9   | 49.5   | 51.1   | 51.0   | 50.0   | 40.6   | 29.6   |    |    |    |    |    |    |
| 471. FT/SEC        | 16000 | 34.6   | 30.8   | 33.2   | 37.4   | 42.1   | 43.5   | 45.8   | 46.0   | 42.7   | 31.9   | 20.1   |    |    |    |    |    |    |
|                    | 20000 | 27.7   | 24.2   | 28.0   | 32.4   | 36.3   | 38.2   | 38.9   | 39.3   | 36.6   | 23.6   | 6.6    |    |    |    |    |    |    |
|                    | 25000 | 18.3   | 17.3   | 19.3   | 24.1   | 27.7   | 29.7   | 30.1   | 29.1   | 23.7   | 9.6    |        |    |    |    |    |    |    |
|                    | 31500 | 1.7    | 5.9    | 8.6    | 13.4   | 18.9   | 18.9   | 18.5   | 18.8   | 9.8    |        |        |    |    |    |    |    |    |
|                    | 40000 |        |        |        |        |        | 1.2    | 0.2    |        |        |        |        |    |    |    |    |    |    |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
| OVERALL CALCULATED |       | 59.7   | 61.3   | 63.4   | 66.5   | 69.4   | 71.3   | 71.7   | 71.5   | 70.1   | 66.8   | 57.1   |    |    |    |    |    |    |
| PNDB               |       | 71.7   | 73.7   | 76.2   | 79.6   | 82.5   | 84.2   | 85.3   | 85.2   | 83.8   | 79.2   | 68.8   |    |    |    |    |    |    |



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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PRNG. DATE = MONTH 11 DAY 25 HR. 10.5

NOISE SOUND PRESSURE LEVELS (50. DB(A), 1% PERCENT REL. HUM., 247)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 155    | 165    | 175    | 185    | 195    | 205    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                    | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.74) | (1.91) | (2.07) | (2.23) | (2.39) | (2.55) | (2.71) | (2.87) | (3.03) | (3.19) | (3.35) |
| RADIAL 17. FT.     | 50     | 53     | 56     | 59     | 62     | 65     | 68     | 71     | 74     | 77     | 80     | 83     | 86     | 89     | 92     | 95     |
| 1 S. M1            | 100    | 64.3   | 65.4   | 70.9   | 73.2   | 74.6   | 74.2   | 70.6   | 67.2   | 69.5   | 72.0   | 70.1   |        |        |        | 106.1  |
| VEHICLE            | 125    | 67.5   | 67.9   | 72.1   | 69.4   | 70.9   | 67.9   | 68.0   | 71.2   | 72.0   | 72.6   | 74.6   |        |        |        | 104.6  |
| CONVIC             | 160    | 66.0   | 66.6   | 66.6   | 67.4   | 67.9   | 68.2   | 68.9   | 70.2   | 71.7   | 73.3   | 75.4   |        |        |        | 103.0  |
| LDC SCHEMECTAB     | 200    | 69.0   | 67.1   | 68.1   | 68.2   | 68.9   | 70.6   | 71.1   | 72.6   | 73.2   | 75.0   | 76.0   |        |        |        | 105.6  |
| DATE 11/22/74      | 250    | 67.0   | 68.4   | 69.1   | 69.4   | 70.4   | 70.9   | 71.0   | 72.4   | 73.5   | 74.1   | 75.0   |        |        |        | 105.0  |
| RUN 22/7           | 315    | 69.0   | 70.1   | 70.4   | 71.2   | 71.9   | 72.1   | 72.1   | 72.6   | 73.2   | 74.0   | 74.0   |        |        |        | 105.3  |
| TAPE               | 400    | 66.1   | 69.4   | 69.4   | 70.4   | 70.9   | 71.7   | 72.0   | 72.9   | 73.0   | 74.3   | 74.1   |        |        |        | 105.9  |
| BAR 29.6 HG        | 500    | 66.1   | 67.9   | 67.6   | 68.7   | 70.1   | 71.9   | 72.0   | 73.7   | 74.0   | 74.0   | 73.0   |        |        |        | 105.6  |
| (100/12. M/M2)     | 630    | 69.1   | 69.6   | 70.6   | 72.4   | 73.7   | 74.9   | 74.1   | 76.7   | 76.0   | 77.1   | 74.0   |        |        |        | 106.0  |
| YARD 31. DEG F     | 800    | 70.9   | 71.6   | 72.1   | 72.2   | 74.1   | 75.4   | 77.1   | 77.7   | 77.7   | 78.3   | 74.9   |        |        |        | 106.0  |
| (273. DEG G)       | 1000   | 66.1   | 69.4   | 70.1   | 72.7   | 74.4   | 77.0   | 78.1   | 79.4   | 79.2   | 79.0   | 74.4   |        |        |        | 110.5  |
| YARD 29. DEG F     | 1250   | 70.7   | 70.7   | 70.6   | 62.5   | 64.9   | 67.7   | 66.6   | 66.1   | 65.6   | 65.0   | 60.4   |        |        |        | 110.9  |
| (271. DEG K)       | 1600   | 73.9   | 74.7   | 75.6   | 70.1   | 81.0   | 83.0   | 83.3   | 83.6   | 83.2   | 83.6   | 77.1   |        |        |        | 115.4  |
| WACT 3.72 CM/M3    | 2000   | 74.2   | 75.7   | 77.1   | 79.1   | 82.0   | 83.3   | 84.3   | 84.6   | 83.8   | 83.2   | 76.1   |        |        |        | 115.1  |
| (.00372 CM/M3)     | 2500   | 74.9   | 76.7   | 76.4   | 81.6   | 84.3   | 86.0   | 86.0   | 89.1   | 89.0   | 87.4   | 80.4   |        |        |        | 120.2  |
| NFA 5484. RPM      | 3150   | 73.2   | 75.0   | 77.4   | 80.4   | 83.3   | 85.3   | 87.0   | 87.4   | 87.5   | 86.4   | 79.6   |        |        |        | 118.6  |
| ( 506. RAD/SEC)    | 4000   | 72.4   | 75.0   | 76.0   | 80.4   | 84.0   | 86.2   | 87.0   | 88.3   | 86.9   | 87.1   | 80.6   |        |        |        | 118.6  |
| NFA 5506. RPM      | 5000   | 70.6   | 72.2   | 75.0   | 76.6   | 81.6   | 84.5   | 85.0   | 86.2   | 87.4   | 85.3   | 77.7   |        |        |        | 117.7  |
| ( 802. RAD/SEC)    | 6300   | 68.7   | 70.8   | 73.2   | 77.0   | 80.4   | 82.2   | 84.2   | 85.5   | 86.4   | 83.6   | 77.6   |        |        |        | 118.4  |
| NFA 6023. RPM      | 8000   | 67.1   | 69.7   | 72.1   | 76.0   | 79.1   | 81.0   | 83.0   | 84.5   | 85.0   | 82.6   | 76.7   |        |        |        | 118.4  |
| ( 924. RAD/SEC)    | 10000  | 66.0   | 68.6   | 71.1   | 75.1   | 78.2   | 80.7   | 82.5   | 84.0   | 85.4   | 82.6   | 76.6   |        |        |        | 118.2  |
| NO. OF BLADES 15   | 12500  | 66.9   | 67.8   | 69.7   | 74.2   | 77.3   | 79.1   | 81.0   | 84.1   | 85.1   | 81.2   | 76.6   |        |        |        | 114.0  |
| FAN TIP SPEED      | 16000  | 64.7   | 65.7   | 66.0   | 71.3   | 74.0   | 77.0   | 79.4   | 82.1   | 83.1   | 79.7   | 75.2   |        |        |        | 113.1  |
| 472. FT/SEC        | 20000  | 64.0   | 65.4   | 66.4   | 70.8   | 74.0   | 76.0   | 79.0   | 81.6   | 83.0   | 79.0   | 74.4   |        |        |        | 113.5  |
|                    | 25000  | 64.4   | 64.6   | 65.6   | 69.4   | 72.4   | 74.4   | 76.0   | 79.7   | 80.6   | 77.2   | 71.7   |        |        |        | 111.7  |
|                    | 31500  | 65.0   | 64.0   | 65.0   | 69.1   | 71.7   | 74.2   | 76.0   | 78.6   | 80.0   | 76.6   | 69.7   |        |        |        | 112.0  |
|                    | 40000  | 65.3   | 65.4   | 64.0   | 64.6   | 68.9   | 71.1   | 73.9   | 75.8   | 77.0   | 74.2   | 60.6   |        |        |        | 110.7  |
|                    | 50000  | 67.0   | 64.7   | 66.2   | 66.5   | 68.0   | 68.3   | 70.7   | 71.2   | 72.1   | 70.4   | 63.3   |        |        |        | 109.2  |
|                    | 63000  | 70.0   | 64.7   | 67.5   | 67.0   | 66.7   | 67.5   | 69.0   | 67.5   | 68.0   | 64.5   | 63.3   |        |        |        | 110.5  |
|                    | 80000  | 70.0   | 67.5   | 68.0   | 67.0   | 68.4   | 69.3   | 70.0   | 70.0   | 69.2   | 64.4   | 64.0   |        |        |        | 110.0  |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |        | 85.6   | 60.2   | 67.6   | 80.2   | 83.2   | 85.3   | 86.5   | 87.3   | 87.9   | 86.3   | 81.0   |        |        |        | 100.1  |
| PAUSE              |        | 87.2   | 88.8   | 100.4  | 103.3  | 100.2  | 100.2  | 100.6  | 110.1  | 110.7  | 109.3  | 103.0  |        |        |        |        |

NOISE SOUND PRESSURE LEVELS (50. DB(A), 1% PERCENT REL. HUM., 247)

ORIGINAL PAGE IS OF POOR QUALITY

MODEL SOUND PRESSURE LEVELS (50 DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 180    | 190    | 210    | 225    | 240    | 270    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ.              | (0.92) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.00) | (3.29) | (3.60) | (3.94) | (4.31) | (4.71) |
| SIDELINE 200. FT.  | 50     | 53     | 57     | 61     | 65     | 69     | 73     | 77     | 81     | 85     | 89     | 93     | 97     | 101    | 105    | 109    | 113    |
| ( 60.96 M )        | 60     | 63     | 67     | 71     | 75     | 79     | 83     | 87     | 91     | 95     | 99     | 103    | 107    | 111    | 115    | 119    | 123    |
| VEHICLE R-55       | 100    | 40.6   | 42.7   | 46.8   | 51.5   | 53.0   | 52.4   | 48.4   | 44.1   | 45.8   | 46.3   | 46.0   | 47.4   | 45.9   | 44.6   | 44.6   | 44.6   |
| CONFIG C-40        | 125    | 43.8   | 45.1   | 50.0   | 47.6   | 49.2   | 46.1   | 46.3   | 46.0   | 47.4   | 46.5   | 46.0   | 47.1   | 46.5   | 44.9   | 44.9   | 44.9   |
| LOC SCHEMECTADY    | 160    | 42.2   | 43.7   | 44.4   | 45.8   | 46.1   | 46.3   | 46.5   | 46.7   | 47.1   | 46.7   | 46.5   | 46.6   | 46.6   | 46.2   | 46.2   | 46.2   |
| DATE 11/22/74      | 200    | 41.1   | 44.1   | 45.8   | 46.2   | 47.1   | 48.7   | 46.7   | 49.3   | 46.5   | 48.6   | 47.0   | 47.0   | 46.2   | 44.7   | 44.7   | 44.7   |
| RUN 22/7           | 250    | 43.0   | 45.3   | 46.7   | 47.4   | 48.5   | 46.8   | 49.3   | 49.0   | 46.6   | 47.0   | 47.0   | 47.3   | 47.3   | 47.3   | 47.3   | 47.3   |
| TAPE               | 315    | 44.9   | 47.0   | 47.9   | 49.1   | 49.9   | 56.0   | 49.5   | 49.1   | 46.2   | 47.3   | 47.3   | 47.3   | 47.3   | 47.3   | 47.3   | 47.3   |
| BAR 29.6 MG        | 400    | 43.0   | 46.1   | 46.8   | 48.2   | 48.8   | 49.4   | 49.9   | 49.3   | 47.9   | 46.9   | 46.9   | 46.9   | 46.9   | 46.9   | 46.9   | 46.9   |
| ( 100122. N/M2 )   | 500    | 41.7   | 44.5   | 45.0   | 46.4   | 46.0   | 49.6   | 49.5   | 49.9   | 48.7   | 47.0   | 47.0   | 47.0   | 47.0   | 47.0   | 47.0   | 47.0   |
| TANG 31. DEG F     | 600    | 44.6   | 46.2   | 47.9   | 50.1   | 51.4   | 52.5   | 53.2   | 52.8   | 50.6   | 49.3   | 49.3   | 49.3   | 49.3   | 49.3   | 49.3   | 49.3   |
| ( 1273. DEG K )    | 800    | 46.2   | 48.0   | 49.2   | 49.7   | 51.8   | 52.9   | 54.0   | 53.7   | 52.2   | 50.4   | 50.4   | 50.4   | 50.4   | 50.4   | 50.4   | 50.4   |
| TWIST 29. DEG F    | 1000   | 43.3   | 45.6   | 47.1   | 50.1   | 51.9   | 54.3   | 54.9   | 55.3   | 53.5   | 51.7   | 51.7   | 51.7   | 51.7   | 51.7   | 51.7   | 51.7   |
| ( 1271. DEG K )    | 1250   | 54.7   | 54.8   | 55.5   | 59.8   | 62.3   | 64.9   | 63.3   | 61.8   | 59.6   | 58.4   | 58.4   | 58.4   | 58.4   | 58.4   | 58.4   | 58.4   |
| HACT 3.72 CM/M3    | 1600   | 48.7   | 50.6   | 52.3   | 55.1   | 58.2   | 59.8   | 59.8   | 59.1   | 57.1   | 54.9   | 54.9   | 54.9   | 54.9   | 54.9   | 54.9   | 54.9   |
| ( 1.00372 KG/M3 )  | 2000   | 46.7   | 51.4   | 53.8   | 56.0   | 59.0   | 60.1   | 60.8   | 59.9   | 57.4   | 54.1   | 54.1   | 54.1   | 54.1   | 54.1   | 54.1   | 54.1   |
| NFA 5404. RPM      | 2500   | 49.3   | 52.2   | 54.7   | 58.4   | 61.1   | 62.7   | 64.9   | 64.2   | 63.4   | 60.1   | 60.1   | 60.1   | 60.1   | 60.1   | 60.1   | 60.1   |
| ( 566. RAD/SEC )   | 3150   | 47.2   | 50.2   | 53.4   | 56.9   | 59.9   | 61.7   | 62.9   | 62.1   | 60.5   | 56.6   | 56.6   | 56.6   | 56.6   | 56.6   | 56.6   | 56.6   |
| NFK 558. RPM       | 4000   | 45.8   | 49.7   | 52.4   | 56.4   | 60.2   | 62.2   | 62.4   | 62.5   | 61.4   | 56.5   | 56.5   | 56.5   | 56.5   | 56.5   | 56.5   | 56.5   |
| ( 592. RAD/SEC )   | 5000   | 43.8   | 46.6   | 50.3   | 54.4   | 57.7   | 60.2   | 61.8   | 60.2   | 59.5   | 54.3   | 54.3   | 54.3   | 54.3   | 54.3   | 54.3   | 54.3   |
| NFD 8823. RPM      | 6300   | 40.9   | 44.4   | 47.8   | 52.1   | 55.6   | 57.2   | 58.6   | 58.7   | 57.5   | 51.3   | 51.3   | 51.3   | 51.3   | 51.3   | 51.3   | 51.3   |
| ( 924. RAD/SEC )   | 8000   | 38.8   | 42.1   | 45.5   | 50.8   | 53.3   | 55.6   | 56.2   | 56.4   | 54.6   | 48.6   | 48.6   | 48.6   | 48.6   | 48.6   | 48.6   | 48.6   |
| NO. OF BLADES 15   | 10000  | 35.8   | 39.2   | 42.9   | 47.6   | 50.8   | 53.1   | 54.1   | 54.1   | 52.9   | 45.8   | 45.8   | 45.8   | 45.8   | 45.8   | 45.8   | 45.8   |
| FAN TIP SPEED      | 12500  | 33.0   | 35.9   | 39.2   | 44.4   | 47.8   | 49.3   | 50.8   | 51.5   | 49.5   | 40.3   | 40.3   | 40.3   | 40.3   | 40.3   | 40.3   | 40.3   |
| 472. FT/SEC        | 16000  | 28.1   | 29.7   | 32.5   | 37.9   | 41.6   | 43.5   | 44.7   | 45.2   | 42.4   | 32.4   | 32.4   | 32.4   | 32.4   | 32.4   | 32.4   | 32.4   |
|                    | 20000  | 21.4   | 24.0   | 27.0   | 32.4   | 36.1   | 38.2   | 39.2   | 39.8   | 36.6   | 23.9   | 23.9   | 23.9   | 23.9   | 23.9   | 23.9   | 23.9   |
|                    | 25000  | 13.1   | 17.3   | 19.8   | 24.3   | 27.7   | 29.2   | 29.8   | 29.1   | 23.7   | 9.4    | 9.4    | 9.4    | 9.4    | 9.4    | 9.4    | 9.4    |
|                    | 31500  |        | 9.4    | 7.8    | 13.9   | 17.2   | 18.9   | 19.0   | 18.1   | 9.3    |        |        |        |        |        |        |        |
|                    | 40000  |        |        |        |        |        | 0.7    | 0.2    |        |        |        |        |        |        |        |        |        |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |        | 59.6   | 61.5   | 63.6   | 66.8   | 69.3   | 71.4   | 71.8   | 71.3   | 69.9   | 66.1   | 67.1   | 67.1   | 67.1   | 67.1   | 67.1   | 67.1   |
| PNDB               |        | 71.2   | 74.0   | 76.4   | 79.8   | 82.8   | 84.4   | 85.4   | 84.8   | 83.7   | 79.3   | 80.6   | 80.6   | 80.6   | 80.6   | 80.6   | 80.6   |



NOISE SOUND PRESSURE LEVELS (50. DEC. F. 70 PERCENT DEL. MIN. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.   | 0.   | 0.   | 0.   | 0.   |
| SIDELINE 700. FT.  | 50     | 53     | 56     | 59     | 62     | 65     | 68     | 71     | 74     | 77     | 80     | 83   | 86   | 89   | 92   | 95   |
| ( 60.96 M)         | 63     | 66     | 69     | 72     | 75     | 78     | 81     | 84     | 87     | 90     | 93     | 96   | 99   | 102  | 105  | 108  |
| VEHICLE R-55       | 100    | 52.1   | 52.0   | 50.6   | 52.2   | 51.0   | 48.2   | 48.2   | 47.1   | 48.5   | 50.0   | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 |
| CONFIG 6.00        | 125    | 46.3   | 46.0   | 46.0   | 46.6   | 46.5   | 49.3   | 49.1   | 51.0   | 50.2   | 49.2   | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 |
| LOC SCHEMECTAD     | 200    | 44.1   | 45.4   | 47.1   | 48.2   | 49.0   | 52.2   | 51.7   | 52.6   | 52.2   | 52.0   | 50.4 | 50.4 | 50.4 | 50.4 | 50.4 |
| DATE 11/22/74      | 250    | 46.7   | 47.0   | 49.7   | 50.9   | 52.3   | 52.1   | 52.3   | 52.7   | 51.0   | 51.2   | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 |
| RUN 22/A           | 315    | 48.4   | 50.5   | 50.9   | 52.0   | 52.9   | 53.0   | 52.7   | 52.9   | 51.7   | 51.3   | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 |
| TAPE               | 400    | 48.8   | 48.6   | 49.1   | 50.7   | 51.3   | 52.4   | 52.6   | 52.5   | 51.4   | 50.4   | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 |
| BAR 29.6 MC        | 500    | 44.4   | 46.5   | 47.7   | 49.7   | 51.0   | 52.4   | 52.0   | 52.9   | 51.7   | 50.3   | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 |
| (0.122. M/M2)      | 630    | 47.3   | 47.9   | 50.4   | 52.6   | 53.9   | 55.0   | 55.7   | 56.0   | 53.9   | 52.1   | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 |
| TANK 31. DEC F     | 800    | 48.2   | 49.3   | 51.2   | 52.5   | 54.3   | 55.7   | 56.0   | 55.0   | 54.4   | 51.6   | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 |
| (273. DEC K)       | 1000   | 45.6   | 47.9   | 49.0   | 52.0   | 54.7   | 56.3   | 57.4   | 57.5   | 56.3   | 53.2   | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 |
| TACT 29. DEC F     | 1250   | 48.4   | 50.5   | 52.7   | 55.5   | 57.8   | 59.2   | 59.8   | 60.1   | 58.1   | 55.7   | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 |
| (27. DEC K)        | 1500   | 56.7   | 59.3   | 59.5   | 62.1   | 64.2   | 64.8   | 65.6   | 64.6   | 63.1   | 61.7   | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 |
| NACT 3.72 CM/MS    | 2000   | 51.5   | 53.9   | 56.1   | 59.2   | 62.0   | 63.9   | 64.1   | 63.2   | 60.4   | 58.1   | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 |
| (.60372 KG/MS)     | 2500   | 50.8   | 53.2   | 55.7   | 60.1   | 62.4   | 64.7   | 64.7   | 63.2   | 61.9   | 58.6   | 45.4 | 45.4 | 45.4 | 45.4 | 45.4 |
| NFA 6170. RPM      | 3150   | 52.9   | 55.2   | 57.9   | 62.1   | 64.6   | 67.2   | 67.9   | 67.1   | 66.7   | 61.6   | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 |
| ( 640. RAD/SEC)    | 4000   | 49.1   | 52.7   | 55.4   | 60.4   | 62.7   | 65.0   | 65.6   | 65.3   | 62.9   | 57.3   | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 |
| NFK 6344. RPM      | 5030   | 48.5   | 52.4   | 55.3   | 60.9   | 62.7   | 65.7   | 65.3   | 64.9   | 62.7   | 58.6   | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 |
| ( 664. RAD/SEC)    | 6300   | 45.2   | 48.4   | 51.0   | 56.0   | 59.6   | 62.0   | 62.6   | 62.9   | 60.0   | 53.0   | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 |
| NFS 6023. RPM      | 8000   | 42.0   | 46.1   | 49.2   | 54.5   | 57.0   | 59.8   | 60.7   | 60.4   | 58.0   | 51.1   | 38.4 | 38.4 | 38.4 | 38.4 | 38.4 |
| ( 924. RAD/SEC)    | 10000  | 39.1   | 43.3   | 47.2   | 53.1   | 55.6   | 57.0   | 56.0   | 56.6   | 56.9   | 48.0   | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 |
| NO. OF BLADES IS   | 12500  | 35.8   | 39.2   | 43.4   | 49.2   | 52.1   | 53.6   | 53.3   | 53.0   | 52.0   | 43.6   | 28.1 | 28.1 | 28.1 | 28.1 | 28.1 |
| FAN TIP SPEED      | 16000  | 28.4   | 33.5   | 38.5   | 41.9   | 43.6   | 44.0   | 43.2   | 42.2   | 41.2   | 34.6   | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 330. FT/SEC        | 20000  | 21.9   | 27.2   | 31.3   | 36.6   | 40.1   | 42.2   | 43.7   | 43.5   | 40.6   | 26.4   | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  |
|                    | 25000  | 13.1   | 19.1   | 22.0   | 29.1   | 32.0   | 33.9   | 34.0   | 33.3   | 27.5   | 12.1   |      |      |      |      |      |
|                    | 31500  |        | 6.0    | 11.1   | 17.0   | 21.4   | 23.6   | 23.2   | 26.6   | 12.9   |        |      |      |      |      |      |
|                    | 40000  |        |        |        |        | 3.3    | 5.4    | 5.0    | 8.6    |        |        |      |      |      |      |      |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
| OVERALL CALCULATED |        | 62.6   | 64.9   | 65.5   | 70.0   | 72.3   | 74.3   | 74.6   | 74.2   | 72.7   | 68.5   | 60.5 | 60.5 | 60.5 | 60.5 | 60.5 |
| PRSD               |        | 75.1   | 77.6   | 79.9   | 83.0   | 86.1   | 88.3   | 88.6   | 88.3   | 87.2   | 82.6   | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 |

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OF POOR QUALITY

MODEL 3040 PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. (AVG)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 57    | 62    | 71    | 81    | 91    | 101   | 111   | 122   | 133   | 145   | 150   | 160  | 170 | 180 | 190 | 200   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|-----|-------|
| PRBL               | 10.02 | 11.38 | 11.24 | 11.41 | 11.58 | 11.76 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 0.   | 0.  | 0.  | 0.  | 0.    |
| RADIAL 17. FT.     | 50    | 53    | 56    | 59    | 63    | 67    | 71    | 75    | 79    | 83    | 87    | 91   | 95  | 99  | 103 | 107   |
| VEHICLE (S. M.)    | 100   | 69.0  | 74.6  | 74.1  | 72.2  | 71.6  | 72.4  | 72.4  | 74.2  | 75.7  | 79.0  | 83.1 |     |     |     | 109.7 |
| CONFIG 6-20        | 125   | 75.3  | 80.9  | 79.9  | 77.2  | 75.6  | 74.7  | 74.9  | 77.9  | 79.0  | 80.3  | 83.1 |     |     |     | 112.6 |
| LOC SCHEMATIC      | 150   | 71.5  | 72.4  | 72.6  | 73.2  | 73.4  | 73.9  | 75.9  | 77.7  | 79.0  | 81.3  | 83.1 |     |     |     | 111.0 |
| DATE 11/22/74      | 200   | 71.0  | 70.9  | 71.6  | 72.7  | 74.9  | 76.9  | 77.4  | 79.1  | 80.0  | 82.6  | 84.3 |     |     |     | 112.1 |
| RUN 22/9           | 250   | 73.6  | 74.1  | 75.1  | 75.9  | 77.1  | 77.4  | 78.0  | 79.6  | 80.2  | 81.0  | 83.3 |     |     |     | 112.0 |
| TAPE               | 315   | 76.0  | 76.4  | 77.1  | 77.7  | 77.4  | 78.6  | 78.3  | 79.6  | 80.0  | 81.6  | 82.6 |     |     |     | 113.0 |
| BAR 20.6 MC        | 400   | 74.1  | 74.6  | 74.9  | 76.2  | 76.6  | 77.9  | 78.1  | 79.1  | 80.0  | 81.3  | 81.0 |     |     |     | 112.2 |
| 100122. W/M21      | 500   | 72.3  | 72.4  | 72.6  | 74.2  | 76.1  | 77.4  | 78.4  | 79.7  | 80.0  | 81.1  | 80.4 |     |     |     | 111.7 |
| TAND 31. DEG F     | 600   | 74.4  | 74.6  | 75.4  | 77.4  | 78.9  | 80.4  | 81.6  | 82.4  | 82.2  | 82.1  | 80.9 |     |     |     | 114.1 |
| 1273. DEG F        | 800   | 75.6  | 75.4  | 76.4  | 77.7  | 79.1  | 80.4  | 81.6  | 82.9  | 82.3  | 82.3  | 80.1 |     |     |     | 114.3 |
| 1273. DEG F        | 1000  | 73.1  | 74.4  | 75.1  | 77.4  | 79.4  | 81.0  | 82.6  | 83.9  | 84.2  | 82.6  | 79.1 |     |     |     | 114.9 |
| TWY 29. DEG K1     | 1250  | 74.9  | 75.4  | 77.8  | 80.0  | 81.9  | 83.7  | 85.1  | 86.1  | 86.2  | 84.4  | 80.1 |     |     |     | 117.2 |
| 1271. DEG K1       | 1400  | 80.4  | 81.7  | 84.6  | 87.3  | 90.2  | 91.3  | 92.1  | 92.6  | 91.5  | 90.4  | 82.0 |     |     |     | 123.0 |
| WCTY 3.72 CM/MS    | 2000  | 80.9  | 81.7  | 84.1  | 86.6  | 89.7  | 91.3  | 91.8  | 92.6  | 91.8  | 89.7  | 83.6 |     |     |     | 123.7 |
| 1.00372 CM/MS      | 2500  | 79.2  | 80.2  | 82.1  | 84.1  | 87.5  | 91.0  | 91.1  | 91.1  | 90.8  | 85.7  | 81.6 |     |     |     | 122.7 |
| WFA 6943. RPM      | 3150  | 80.7  | 81.7  | 84.1  | 86.2  | 91.5  | 92.5  | 94.3  | 93.9  | 93.8  | 90.2  | 85.3 |     |     |     | 125.7 |
| 1 727. RAD/SEC     | 4000  | 79.9  | 81.5  | 83.0  | 86.2  | 91.3  | 92.7  | 94.2  | 94.3  | 94.7  | 90.1  | 85.0 |     |     |     | 129.0 |
| WPK 7136. RPM      | 5000  | 78.6  | 80.7  | 83.5  | 86.9  | 90.8  | 92.8  | 93.8  | 94.7  | 94.1  | 89.3  | 83.3 |     |     |     | 129.1 |
| 1 747. RAD/SEC     | 6300  | 76.2  | 78.5  | 81.2  | 85.3  | 88.4  | 90.5  | 91.9  | 93.0  | 92.0  | 87.3  | 82.6 |     |     |     | 123.0 |
| WFB 8823. RPM      | 8000  | 74.6  | 77.2  | 80.1  | 84.5  | 87.1  | 89.4  | 91.0  | 92.3  | 92.0  | 87.0  | 81.9 |     |     |     | 123.0 |
| 1 824. RAD/SEC     | 10000 | 74.2  | 76.1  | 80.1  | 84.6  | 87.2  | 89.0  | 91.0  | 92.0  | 92.9  | 87.0  | 81.4 |     |     |     | 123.0 |
| NO. OF BLADES 15   | 12500 | 72.9  | 75.8  | 78.2  | 82.7  | 86.3  | 88.1  | 89.9  | 91.9  | 91.9  | 85.9  | 81.1 |     |     |     | 122.0 |
| FAW TIP SPEED      | 16000 | 79.4  | 72.7  | 74.6  | 79.0  | 84.9  | 85.0  | 87.4  | 90.1  | 89.9  | 83.4  | 79.0 |     |     |     | 120.5 |
| 666. FT/SEC        | 20000 | 84.5  | 71.9  | 74.1  | 79.8  | 83.5  | 84.8  | 87.7  | 90.4  | 90.9  | 84.1  | 78.4 |     |     |     | 121.3 |
|                    | 25000 | 88.6  | 71.1  | 73.1  | 78.4  | 82.9  | 83.7  | 86.2  | 88.7  | 89.1  | 82.7  | 77.2 |     |     |     | 120.4 |
|                    | 31500 | 84.3  | 70.0  | 71.7  | 77.8  | 82.5  | 82.7  | 85.5  | 87.6  | 87.8  | 81.6  | 79.2 |     |     |     | 120.3 |
|                    | 40000 | 86.0  | 67.9  | 70.1  | 74.6  | 79.9  | 80.1  | 83.2  | 84.0  | 84.3  | 79.5  | 71.0 |     |     |     | 116.7 |
|                    | 50000 | 87.8  | 67.7  | 68.2  | 71.8  | 76.1  | 76.3  | 79.0  | 79.7  | 80.3  | 76.6  | 67.5 |     |     |     | 110.0 |
|                    | 63000 | 89.0  | 67.2  | 68.5  | 68.7  | 73.5  | 73.0  | 74.5  | 74.2  | 74.2  | 71.0  | 65.8 |     |     |     | 110.1 |
|                    | 80000 | 78.0  | 69.2  | 69.0  | 71.1  | 73.1  | 73.0  | 73.0  | 76.0  | 76.0  | 73.0  | 68.3 |     |     |     | 109.0 |
| OVERALL MEASURED   |       |       |       |       |       |       |       |       |       |       |       |      |     |     |     |       |
| OVERALL CALCULATED | 90.3  | 91.8  | 93.8  | 97.2  | 100.3 | 101.7 | 103.1 | 104.8 | 104.2 | 100.1 | 96.3  |      |     |     |     | 130.6 |
| PRBL               | 103.5 | 104.8 | 106.9 | 110.3 | 113.2 | 114.6 | 115.9 | 116.3 | 117.0 | 113.0 | 108.9 |      |     |     |     |       |

11-25-68 10:15 AM  
 11-25-68 10:15 AM  
 11-25-68 10:15 AM

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. EAVI

ANGLES FROM INLET IN DEGREES (AND RAD/ANG)

|                    | 53.     | 62.     | 71.     | 81.     | 91.     | 101.    | 111.    | 122.    | 133.    | 145.    | 156.    | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|------|------|------|------|
| FREQ.              | (10.02) | (11.00) | (11.24) | (11.41) | (11.58) | (11.70) | (11.84) | (12.13) | (12.32) | (12.52) | (12.73) | (0.  | 110. | 110. | 110. | 110. |
| SIDELINE 200. FT.  | 60      | 63      | 66      | 69      | 72      | 75      | 78      | 81      | 84      | 87      | 90      | 93   | 96   | 99   | 102  | 105  |
| ( 60.00 M)         | 100     | 45.4    | 51.7    | 52.1    | 50.5    | 50.0    | 50.7    | 50.2    | 51.1    | 51.3    | 53.3    | 53.0 |      |      |      |      |
| VEHICLE R-55       | 125     | 51.5    | 58.1    | 57.7    | 55.4    | 54.0    | 52.0    | 52.6    | 54.0    | 54.4    | 54.4    | 53.7 | 52.0 |      |      |      |
| COM'IG U-40        | 160     | 47.7    | 49.5    | 50.4    | 51.3    | 51.6    | 52.0    | 53.5    | 54.4    | 54.3    | 54.5    | 52.0 |      |      |      |      |
| LJC SCHEMECTAD     | 200     | 47.1    | 47.9    | 49.3    | 50.7    | 53.1    | 54.9    | 54.9    | 55.8    | 55.2    | 55.8    | 53.7 |      |      |      |      |
| DATE 11/22/74      | 250     | 49.7    | 51.0    | 52.7    | 53.9    | 55.2    | 55.3    | 56.3    | 56.2    | 55.3    | 54.7    | 52.5 |      |      |      |      |
| RUN: 22/0          | 315     | 51.9    | 53.2    | 54.0    | 55.0    | 55.7    | 56.5    | 56.7    | 56.1    | 55.0    | 54.3    | 51.9 |      |      |      |      |
| TAPE               | 400     | 48.8    | 51.4    | 52.3    | 54.0    | 54.6    | 55.7    | 55.4    | 55.5    | 54.9    | 53.9    | 50.3 |      |      |      |      |
| BAR 29.6 HG        | 500     | 47.9    | 49.0    | 50.0    | 51.0    | 54.0    | 55.1    | 55.5    | 55.9    | 54.7    | 53.5    | 48.0 |      |      |      |      |
| (100122. W/M2)     | 630     | 48.8    | 51.2    | 52.6    | 55.1    | 56.7    | 58.0    | 58.7    | 58.5    | 56.9    | 54.3    | 49.0 |      |      |      |      |
| TAMP 31. DEG F     | 800     | 53.9    | 51.8    | 53.5    | 55.2    | 56.8    | 57.9    | 58.5    | 58.9    | 56.9    | 54.4    | 48.0 |      |      |      |      |
| (273. DEG K)       | 1000    | 48.3    | 50.6    | 52.1    | 54.8    | 56.9    | 58.3    | 59.4    | 59.8    | 58.5    | 54.4    | 48.0 |      |      |      |      |
| TMET 20. DEG F     | 1250    | 49.0    | 51.5    | 54.5    | 57.3    | 59.3    | 60.9    | 61.8    | 61.8    | 60.3    | 55.0    | 47.3 |      |      |      |      |
| (271. DEG K)       | 1600    | 55.2    | 57.6    | 61.3    | 64.4    | 67.5    | 68.3    | 68.6    | 68.1    | 65.4    | 61.7    | 49.0 |      |      |      |      |
| WACT 3.72 CM/MS    | 2000    | 55.5    | 57.4    | 60.6    | 63.9    | 66.0    | 66.1    | 66.1    | 67.9    | 65.4    | 60.6    | 49.0 |      |      |      |      |
| (.00372 KG/MS)     | 2500    | 53.5    | 55.7    | 58.4    | 62.9    | 66.4    | 67.7    | 67.2    | 66.2    | 64.1    | 56.3    | 47.4 |      |      |      |      |
| WPA 6943. RPM      | 3150    | 54.7    | 56.9    | 60.1    | 64.6    | 68.1    | 68.9    | 70.1    | 68.6    | 66.7    | 60.3    | 50.4 |      |      |      |      |
| ( 727. RAD/SEC)    | 4000    | 53.3    | 56.2    | 59.4    | 64.2    | 67.5    | 68.7    | 69.0    | 68.5    | 67.1    | 59.5    | 49.0 |      |      |      |      |
| WPK 7130. RPM      | 5000    | 51.8    | 55.1    | 58.8    | 62.7    | 66.7    | 67.7    | 68.5    | 68.7    | 66.2    | 58.3    | 46.0 |      |      |      |      |
| ( 747. RAD/SEC)    | 6300    | 48.4    | 52.2    | 55.0    | 60.4    | 63.6    | 65.5    | 66.3    | 66.2    | 64.0    | 55.0    | 44.1 |      |      |      |      |
| WPS 8423. RPM      | 8000    | 45.5    | 49.6    | 53.5    | 58.5    | 61.3    | 63.3    | 64.2    | 64.1    | 62.4    | 53.6    | 40.6 |      |      |      |      |
| ( 924. RAD/SEC)    | 10000   | 43.1    | 46.7    | 51.9    | 57.1    | 59.8    | 61.4    | 62.6    | 62.1    | 60.4    | 50.1    | 38.2 |      |      |      |      |
| NO. OF BLADES 15   | 12500   | 39.8    | 43.2    | 47.7    | 52.0    | 56.8    | 58.3    | 59.1    | 59.3    | 56.3    | 45.1    | 30.1 |      |      |      |      |
| FAN TIP SPEED      | 16000   | 31.9    | 36.7    | 40.2    | 46.4    | 50.9    | 51.5    | 52.7    | 53.2    | 49.2    | 36.2    | 18.6 |      |      |      |      |
| 600. FT/SEC        | 20000   | 24.9    | 30.5    | 34.8    | 41.6    | 45.6    | 46.5    | 47.9    | 47.8    | 43.6    | 26.4    | 8.6  |      |      |      |      |
|                    | 25000   | 19.3    | 21.8    | 26.5    | 33.3    | 38.2    | 38.4    | 39.1    | 39.1    | 32.2    | 16.9    |      |      |      |      |      |
|                    | 31500   | 2.2     | 9.4     | 14.6    | 22.7    | 27.9    | 27.4    | 27.7    | 25.1    | 17.0    |         |      |      |      |      |      |
|                    | 40000   |         |         |         | 4.5     | 10.6    | 9.7     | 9.8     | 3.9     |         |         |      |      |      |      |      |
|                    | 50000   |         |         |         |         |         |         |         |         |         |         |      |      |      |      |      |
|                    | 63000   |         |         |         |         |         |         |         |         |         |         |      |      |      |      |      |
|                    | 80000   |         |         |         |         |         |         |         |         |         |         |      |      |      |      |      |
| OVERALL CALCULATED |         | 64.4    | 67.1    | 69.6    | 73.0    | 76.1    | 77.3    | 77.9    | 77.4    | 75.7    | 69.9    | 63.2 |      |      |      |      |
| PMSD               |         | 77.4    | 79.9    | 82.8    | 86.6    | 88.7    | 90.0    | 91.6    | 90.8    | 89.9    | 83.1    | 74.1 |      |      |      |      |

096

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)  
 PROC. DATE - MONTH 12 DAY 3 HR. 11.3  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | FREQ. | 53      | 62      | 71      | 81      | 91      | 101     | 111     | 122     | 133     | 145     | 156     | 168     | 180     | 192     | 204     | 216     | 228     | 240     | PWL     |
|--------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                    |       | (10.92) | (11.08) | (11.24) | (11.41) | (11.58) | (11.74) | (11.91) | (12.07) | (12.23) | (12.39) | (12.55) | (12.71) | (12.87) | (13.03) | (13.19) | (13.35) | (13.51) | (13.67) | (13.83) |
| RADIAL 17. FT.     | 50    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                    | 63    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                    | 80    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| VEHICLE (S. M)     | 100   | 72.3    | 73.8    | 74.9    | 75.4    | 74.1    | 74.6    | 77.4    | 75.9    | 79.1    | 83.5    | 88.1    |         |         |         |         |         |         |         | 113.3   |
| CONVIC 7           | 125   | 76.5    | 78.8    | 77.6    | 77.1    | 78.8    | 79.4    | 82.4    | 82.1    | 82.9    | 84.7    | 88.1    |         |         |         |         |         |         |         | 118.8   |
| LOC SCHENECTADY    | 160   | 75.5    | 76.6    | 75.9    | 76.9    | 77.1    | 76.6    | 84.6    | 80.6    | 83.1    | 85.0    | 88.1    |         |         |         |         |         |         |         | 115.8   |
| DATE 12/2/74       | 200   | 75.7    | 75.3    | 75.6    | 76.4    | 78.4    | 79.9    | 85.1    | 82.6    | 84.4    | 85.9    | 88.0    |         |         |         |         |         |         |         | 110.7   |
| RUN 25/9           | 250   | 79.5    | 80.0    | 81.3    | 82.1    | 83.1    | 83.6    | 85.6    | 86.3    | 86.4    | 87.9    | 89.0    |         |         |         |         |         |         |         | 119.0   |
| TAPE               | 315   | 79.3    | 79.8    | 80.1    | 80.4    | 81.1    | 80.9    | 84.1    | 82.9    | 84.1    | 85.4    | 87.3    |         |         |         |         |         |         |         | 110.9   |
| BAR 29.2 HG        | 400   | 77.8    | 78.3    | 78.3    | 78.9    | 79.1    | 79.6    | 85.8    | 82.4    | 83.6    | 85.0    | 86.3    |         |         |         |         |         |         |         | 116.5   |
| (98508. M/M2)      | 500   | 76.1    | 76.8    | 77.1    | 78.1    | 78.6    | 79.9    | 82.3    | 83.1    | 83.9    | 84.5    | 85.3    |         |         |         |         |         |         |         | 115.6   |
| TARD 47. DEG F     | 630   | 76.6    | 77.6    | 78.1    | 79.1    | 80.4    | 82.2    | 83.3    | 84.4    | 84.9    | 84.7    | 85.1    |         |         |         |         |         |         |         | 110.8   |
| (1291. DEG K)      | 800   | 80.8    | 80.6    | 81.1    | 80.9    | 81.9    | 82.7    | 88.1    | 84.9    | 84.9    | 85.2    | 85.3    |         |         |         |         |         |         |         | 110.9   |
| THEY 43. DEG F     | 1000  | 75.9    | 76.3    | 76.8    | 77.9    | 79.1    | 80.4    | 90.3    | 83.1    | 84.1    | 83.9    | 83.1    |         |         |         |         |         |         |         | 117.7   |
| (1279. DEG K)      | 1250  | 74.9    | 74.8    | 75.6    | 77.2    | 78.4    | 79.4    | 87.3    | 82.6    | 83.0    | 83.0    | 82.3    |         |         |         |         |         |         |         | 116.1   |
| MACT 6.14 GN/M3    | 1600  | 74.1    | 74.9    | 75.3    | 77.8    | 78.2    | 79.4    | 84.1    | 81.3    | 82.7    | 81.3    | 80.8    |         |         |         |         |         |         |         | 114.4   |
| (100014. K/G/M3)   | 2000  | 76.9    | 77.9    | 78.1    | 79.8    | 79.5    | 80.5    | 82.3    | 85.1    | 86.9    | 84.8    | 82.3    |         |         |         |         |         |         |         | 116.5   |
| MFA 7838. RPM      | 2500  | 72.9    | 73.9    | 74.8    | 77.3    | 78.0    | 79.8    | 80.0    | 80.1    | 82.1    | 79.8    | 79.0    |         |         |         |         |         |         |         | 113.1   |
| ( 821. RAD/SEC)    | 3150  | 71.9    | 72.9    | 73.5    | 75.3    | 77.5    | 78.7    | 79.0    | 79.3    | 82.0    | 79.2    | 77.8    |         |         |         |         |         |         |         | 112.5   |
| MFR 7930. RPM      | 4000  | 72.8    | 72.8    | 73.7    | 76.3    | 78.7    | 79.8    | 80.7    | 82.9    | 86.8    | 81.7    | 78.4    |         |         |         |         |         |         |         | 115.0   |
| ( 830. RAD/SEC)    | 5000  | 71.5    | 72.1    | 73.4    | 75.3    | 77.4    | 79.1    | 81.8    | 83.4    | 86.0    | 81.1    | 78.1    |         |         |         |         |         |         |         | 114.8   |
| MFB 8823. RPM      | 6300  | 72.3    | 73.6    | 74.4    | 76.9    | 79.3    | 82.3    | 85.6    | 87.2    | 90.7    | 83.6    | 78.9    |         |         |         |         |         |         |         | 118.8   |
| ( 924. RAD/SEC)    | 8000  | 73.2    | 74.8    | 75.9    | 78.6    | 81.4    | 83.5    | 87.4    | 90.4    | 93.1    | 86.5    | 81.3    |         |         |         |         |         |         |         | 121.0   |
| NO. OF BLADES 15   | 10000 | 74.5    | 74.3    | 76.4    | 79.4    | 82.8    | 84.3    | 88.4    | 91.1    | 91.7    | 85.3    | 80.9    |         |         |         |         |         |         |         | 121.1   |
| FAN TIP SPEED      | 12500 | 76.7    | 77.5    | 78.5    | 82.9    | 86.7    | 88.4    | 92.2    | 93.7    | 93.9    | 87.4    | 82.9    |         |         |         |         |         |         |         | 124.1   |
| 684. FT/SEC        | 16000 | 74.5    | 76.2    | 79.4    | 84.1    | 87.3    | 89.1    | 91.5    | 93.2    | 92.4    | 85.4    | 81.6    |         |         |         |         |         |         |         | 123.9   |
|                    | 20000 | 75.2    | 76.3    | 80.1    | 84.7    | 87.9    | 90.5    | 92.9    | 95.0    | 94.8    | 87.7    | 83.5    |         |         |         |         |         |         |         | 126.0   |
|                    | 25000 | 75.8    | 76.8    | 78.0    | 82.5    | 85.5    | 87.8    | 91.1    | 93.3    | 94.1    | 86.7    | 82.5    |         |         |         |         |         |         |         | 125.1   |
|                    | 31500 | 74.8    | 74.8    | 77.2    | 80.3    | 83.5    | 86.2    | 88.7    | 91.5    | 91.4    | 84.5    | 79.3    |         |         |         |         |         |         |         | 123.8   |
|                    | 40000 | 74.8    | 74.1    | 75.8    | 77.5    | 80.5    | 82.9    | 86.3    | 87.1    | 86.0    | 81.9    | 74.4    |         |         |         |         |         |         |         | 121.8   |
|                    | 50000 | 77.1    | 75.2    | 77.4    | 76.8    | 78.5    | 79.6    | 83.3    | 82.9    | 83.0    | 78.7    | 73.2    |         |         |         |         |         |         |         | 120.4   |
|                    | 63000 | 86.6    | 75.6    | 79.1    | 76.5    | 77.3    | 77.4    | 79.8    | 77.8    | 78.7    | 75.3    | 74.0    |         |         |         |         |         |         |         | 121.0   |
|                    | 80000 | 83.4    | 78.2    | 81.9    | 79.1    | 79.3    | 79.8    | 80.3    | 79.1    | 78.0    | 77.0    | 77.8    |         |         |         |         |         |         |         | 127.8   |
| OVERALL MEASURES   |       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| OVERALL CALCULATED |       | 91.5    | 91.4    | 92.6    | 94.2    | 96.5    | 98.2    | 101.8   | 102.7   | 103.4   | 99.2    | 96.8    |         |         |         |         |         |         |         | 135.4   |
| PWDB               |       | 99.9    | 100.7   | 101.2   | 102.6   | 104.4   | 105.8   | 109.3   | 109.7   | 112.2   | 109.2   | 107.0   |         |         |         |         |         |         |         |         |

↑  
LOW FREQ

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|                    | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 150    | 160    | 170    | 180    | 190    | 200    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ. (0.02)       | (1.00) | (1.24) | (1.57) | (1.98) | (2.48) | (3.04) | (3.64) | (4.27) | (4.92) | (5.60) | (6.30) | (7.02) | (7.76) | (8.52) | (9.30) |
| SIDELINE 200. FT.  | 50     | 63     | 80     |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE (60.90 M)  | 100    | 46.6   | 51.1   | 52.8   | 51.7   | 52.5   | 52.9   | 55.1   | 52.8   | 54.7   | 54.0   | 56.0   | 56.0   |        |        |
| CONFIG 7           | 125    | 52.7   | 56.0   | 55.4   | 55.3   | 57.7   | 57.6   | 60.1   | 59.0   | 58.4   | 58.0   | 57.8   | 57.8   |        |        |
| LOC SCHEMECTADY    | 160    | 51.6   | 53.7   | 53.6   | 55.0   | 55.4   | 54.7   | 62.2   | 57.4   | 58.5   | 58.1   | 57.6   |        |        |        |
| DATE 12/2/74       | 200    | 51.8   | 52.3   | 53.3   | 54.4   | 56.6   | 57.9   | 62.6   | 59.3   | 59.6   | 59.0   | 58.1   |        |        |        |
| RUN 26/9           | 250    | 55.4   | 57.0   | 58.9   | 60.1   | 61.2   | 61.5   | 63.1   | 62.9   | 61.5   | 60.8   | 58.2   |        |        |        |
| TAPE               | 315    | 55.1   | 56.6   | 57.6   | 58.3   | 59.1   | 58.7   | 61.5   | 59.3   | 59.2   | 58.2   | 56.2   |        |        |        |
| BAR 29.2 HG        | 400    | 53.5   | 55.0   | 56.8   | 56.7   | 57.1   | 57.4   | 63.1   | 58.7   | 58.5   | 57.5   | 55.0   |        |        |        |
| (98500. N/M2)      | 500    | 51.7   | 53.4   | 54.4   | 55.9   | 56.5   | 57.6   | 59.5   | 59.4   | 58.7   | 56.9   | 53.7   |        |        |        |
| TANG 47. DEG F     | 630    | 52.1   | 54.1   | 55.3   | 56.8   | 58.2   | 59.7   | 60.4   | 60.5   | 59.5   | 57.8   | 53.2   |        |        |        |
| (281. DEG K)       | 800    | 56.2   | 57.8   | 58.2   | 58.4   | 59.3   | 60.1   | 67.0   | 60.9   | 59.4   | 57.2   | 53.2   |        |        |        |
| THEY 43. DEG K     | 1000   | 51.0   | 52.6   | 53.6   | 55.3   | 56.7   | 57.6   | 67.1   | 59.0   | 58.4   | 55.3   | 50.6   |        |        |        |
| (279. DEG K)       | 1250   | 49.9   | 50.9   | 52.4   | 54.5   | 55.8   | 56.8   | 64.0   | 58.3   | 58.0   | 54.6   | 49.5   |        |        |        |
| MACT 6.14 CM/M3    | 1500   | 48.9   | 50.8   | 52.8   | 54.1   | 55.4   | 56.3   | 60.6   | 56.8   | 56.5   | 52.5   | 47.6   |        |        |        |
| (1.08014 KG/M3)    | 2000   | 51.4   | 53.6   | 54.5   | 55.9   | 56.5   | 57.3   | 58.6   | 60.4   | 60.5   | 55.0   | 46.6   |        |        |        |
| NFA 7830. RPM      | 2500   | 47.2   | 49.4   | 51.1   | 54.0   | 55.9   | 56.1   | 56.1   | 55.1   | 55.5   | 50.4   | 44.8   |        |        |        |
| ( 821. RAD/SEC)    | 3150   | 45.8   | 48.1   | 49.5   | 51.8   | 54.1   | 55.1   | 54.8   | 54.0   | 55.9   | 49.4   | 42.8   |        |        |        |
| NPK 7930. RPM      | 4000   | 45.5   | 47.5   | 49.3   | 52.3   | 54.9   | 55.8   | 56.0   | 57.2   | 59.2   | 51.1   | 42.4   |        |        |        |
| ( 838. RAD/SEC)    | 5000   | 44.6   | 46.5   | 48.7   | 51.0   | 53.4   | 54.8   | 57.0   | 57.3   | 58.1   | 50.1   | 41.5   |        |        |        |
| NPD 6823. RPM      | 6300   | 44.5   | 47.2   | 48.9   | 52.0   | 54.5   | 57.3   | 60.0   | 60.3   | 61.8   | 51.3   | 40.5   |        |        |        |
| ( 924. RAD/SEC)    | 8000   | 44.0   | 47.2   | 49.3   | 52.6   | 55.6   | 57.4   | 60.6   | 62.2   | 62.7   | 52.3   | 40.8   |        |        |        |
| NO. OF BLADES 15   | 10000  | 43.4   | 45.6   | 48.2   | 51.9   | 55.4   | 56.7   | 60.2   | 61.1   | 59.2   | 48.4   | 39.7   |        |        |        |
| FAN TIP SPEED      | 12500  | 42.8   | 45.7   | 49.0   | 53.2   | 57.1   | 58.8   | 61.4   | 61.1   | 58.3   | 46.6   | 38.9   |        |        |        |
| 604. FT/SEC        | 16000  | 35.9   | 40.2   | 45.0   | 50.7   | 54.2   | 55.6   | 56.8   | 56.3   | 51.7   | 38.2   | 21.2   |        |        |        |
|                    | 20000  | 30.6   | 34.9   | 40.7   | 46.5   | 50.0   | 52.1   | 53.1   | 52.5   | 47.8   | 31.9   | 10.6   |        |        |        |
|                    | 25000  | 22.4   | 27.4   | 31.4   | 37.4   | 40.8   | 42.6   | 43.9   | 42.7   | 37.3   | 18.0   |        |        |        |        |
|                    | 31500  | 8.8    | 14.1   | 20.1   | 26.1   | 28.9   | 30.8   | 30.9   | 29.0   | 28.6   |        |        |        |        |        |
|                    | 40000  |        |        | 3.0    | 7.4    | 11.2   | 12.8   | 12.5   | 6.8    |        |        |        |        |        |        |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |        | 64.6   | 66.3   | 67.6   | 68.6   | 70.3   | 71.2   | 71.3   | 73.8   | 73.4   | 66.3   | 64.8   |        |        |        |
| PMDB               |        | 74.0   | 76.0   | 77.3   | 79.1   | 80.9   | 81.8   | 82.7   | 83.7   | 84.4   | 78.5   | 73.8   |        |        |        |

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 LOW FREQ.



|                    |             | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0.   | 0. | 0. | 0. | 0. | 0. | PWL   |       |
|--------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|-------|-------|
|                    | FREQ.       | (0.92) | (1.09) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 0. | 0. | 0. | 0. | 0. |       |       |
|                    | 50          |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |       |
|                    | 63          |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |       |
|                    | 80          |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |       |
| RADIAL             | 17. FT.     |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |       |
| ( 5. M)            | 100         | 68.0   | 72.1   | 71.6   | 70.9   | 70.9   | 71.9   | 74.1   | 72.9   | 76.5   | 81.1   | 84.4   |      |    |    |    |    |    | 118.2 |       |
| VEHICLE            | R-55        | 125    | 75.0   | 80.1   | 78.4   | 76.2   | 74.0   | 75.2   | 76.6   | 77.9   | 79.0   | 81.1   | 83.0 |    |    |    |    |    |       | 112.0 |
| COMVIC             | 7           | 160    | 72.3   | 73.1   | 72.6   | 73.9   | 73.9   | 73.9   | 76.4   | 77.2   | 80.0   | 82.1   | 84.1 |    |    |    |    |    |       | 111.7 |
| LOC                | SCHENECTADY | 200    | 71.0   | 71.1   | 71.4   | 72.9   | 74.6   | 76.4   | 78.9   | 79.4   | 81.0   | 83.6   | 85.1 |    |    |    |    |    |       | 112.9 |
| DATE               | 12/2/74     | 250    | 74.3   | 74.9   | 75.9   | 76.4   | 77.4   | 77.4   | 80.3   | 79.9   | 81.0   | 82.8   | 83.0 |    |    |    |    |    |       | 113.4 |
| RUN                | 26/10       | 315    | 75.8   | 76.9   | 76.6   | 77.4   | 77.9   | 77.9   | 81.1   | 79.4   | 80.2   | 82.3   | 83.3 |    |    |    |    |    |       | 113.0 |
| TAPE               | 400         | 73.8   | 74.9   | 75.1   | 75.9   | 76.1   | 76.7   | 79.9   | 78.4   | 79.5   | 81.8   | 82.6   |      |    |    |    |    |    |       | 112.8 |
| BAR                | 29.2 HG     | 500    | 72.1   | 72.6   | 72.6   | 74.2   | 75.4   | 76.4   | 81.6   | 79.2   | 80.2   | 81.6   | 81.6 |    |    |    |    |    |       | 112.6 |
| (98500. N/M2)      | 630         | 73.1   | 73.4   | 74.6   | 75.9   | 77.2   | 79.2   | 82.9   | 81.4   | 82.5   | 82.1   | 81.1   |      |    |    |    |    |    |       | 114.0 |
| TAMB               | 47. DEG F   | 800    | 74.6   | 74.9   | 75.4   | 76.2   | 77.9   | 78.9   | 80.6   | 81.1   | 82.0   | 81.0   | 80.4 |    |    |    |    |    |       | 113.5 |
| (241. DEG K)       | 1000        | 71.9   | 72.4   | 72.6   | 74.2   | 75.6   | 77.2   | 79.8   | 80.4   | 81.5   | 81.1   | 79.1   |      |    |    |    |    |    |       | 112.3 |
| THET               | 43. DEG F   | 1250   | 70.7   | 71.4   | 71.9   | 73.7   | 74.9   | 76.5   | 78.8   | 79.4   | 81.2   | 81.1   | 78.0 |    |    |    |    |    |       | 111.7 |
| (279. DEG R)       | 1600        | 70.9   | 71.7   | 72.6   | 75.0   | 76.2   | 77.2   | 78.6   | 79.4   | 81.5   | 80.9   | 77.6   |      |    |    |    |    |    |       | 111.9 |
| MACT               | 6.14 CM/M3  | 2000   | 70.9   | 71.9   | 72.4   | 74.6   | 75.5   | 76.2   | 77.6   | 78.6   | 81.0   | 80.1   | 77.1 |    |    |    |    |    |       | 111.3 |
| (1.00814 KG/M3)    | 2500        | 69.2   | 70.4   | 71.1   | 73.8   | 75.7   | 78.0   | 76.3   | 75.3   | 76.0   | 76.6   | 75.1   |      |    |    |    |    |    |       | 109.4 |
| NFA                | 7883. RPM   | 3150   | 69.4   | 68.9   | 69.3   | 71.9   | 74.0   | 75.7   | 76.3   | 75.8   | 80.2   | 77.1   | 74.6 |    |    |    |    |    |       | 109.5 |
| ( 739. RAD/SEC)    | 4000        | 67.6   | 68.7   | 69.8   | 72.6   | 74.7   | 76.2   | 77.4   | 79.2   | 82.9   | 79.1   | 74.7   |      |    |    |    |    |    |       | 111.4 |
| NPR                | 7146. RPM   | 5000   | 67.3   | 68.9   | 69.2   | 72.3   | 74.7   | 75.6   | 80.9   | 81.4   | 83.6   | 80.0   | 75.7 |    |    |    |    |    |       | 112.7 |
| ( 748. RAD/SEC)    | 6300        | 68.6   | 69.7   | 70.9   | 73.7   | 76.0   | 78.9   | 82.6   | 84.7   | 87.1   | 83.0   | 77.2   |      |    |    |    |    |    |       | 115.3 |
| NPS                | 8823. RPM   | 8000   | 69.5   | 71.6   | 72.7   | 75.7   | 78.2   | 81.0   | 85.4   | 87.7   | 89.7   | 85.2   | 78.8 |    |    |    |    |    |       | 118.3 |
| ( 924. RAD/SEC)    | 10000       | 69.7   | 71.7   | 73.2   | 77.2   | 79.8   | 82.8   | 86.4   | 88.4   | 89.8   | 84.7   | 78.7   |      |    |    |    |    |    |       | 118.9 |
| NO. OF BLADES      | 15          | 12500  | 72.8   | 75.1   | 76.3   | 82.5   | 85.7   | 87.7   | 89.7   | 91.2   | 91.5   | 86.3   | 81.2 |    |    |    |    |    |       | 122.1 |
| FAN TIP SPEED      | 18000       | 71.5   | 74.3   | 77.4   | 83.1   | 86.3   | 88.9   | 90.3   | 91.5   | 91.9   | 84.6   | 80.4   |      |    |    |    |    |    |       | 122.6 |
| 617. FT/SEC        | 20000       | 69.5   | 72.4   | 75.1   | 80.8   | 83.2   | 85.8   | 89.4   | 91.6   | 92.4   | 85.3   | 80.3   |      |    |    |    |    |    |       | 122.7 |
|                    | 25000       | 68.5   | 70.2   | 72.3   | 77.6   | 80.7   | 83.3   | 86.1   | 88.9   | 89.4   | 83.3   | 78.1   |      |    |    |    |    |    |       | 120.5 |
|                    | 31500       | 66.6   | 68.1   | 70.8   | 75.6   | 79.0   | 81.7   | 84.5   | 86.5   | 87.7   | 81.3   | 75.1   |      |    |    |    |    |    |       | 119.5 |
|                    | 40000       | 66.8   | 66.7   | 69.1   | 72.8   | 76.3   | 78.9   | 81.8   | 83.4   | 84.6   | 79.0   | 69.9   |      |    |    |    |    |    |       | 117.9 |
|                    | 50000       | 68.9   | 66.5   | 69.0   | 70.9   | 72.6   | 74.9   | 78.6   | 78.2   | 79.6   | 78.1   | 66.2   |      |    |    |    |    |    |       | 115.8 |
|                    | 63000       | 71.0   | 68.9   | 69.7   | 67.6   | 69.3   | 70.9   | 73.1   | 72.0   | 73.8   | 69.7   | 65.3   |      |    |    |    |    |    |       | 113.0 |
|                    | 80000       | 73.7   | 71.0   | 72.0   | 69.1   | 69.3   | 69.9   | 70.8   | 69.4   | 69.8   | 68.8   | 67.0   |      |    |    |    |    |    |       | 117.4 |
| OVERALL MEASURED   |             |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |       |
| OVERALL CALCULATED |             | 86.3   | 87.7   | 88.3   | 91.1   | 93.3   | 95.4   | 98.0   | 99.4   | 100.4  | 96.7   | 95.0   |      |    |    |    |    |    |       | 121.4 |
| PNSB               |             | 95.3   | 96.5   | 97.8   | 99.2   | 100.8  | 102.8  | 105.8  | 106.5  | 108.7  | 106.4  | 103.3  |      |    |    |    |    |    |       |       |

|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 143    | 153    | 163    | 173    | 183    | 193    | 203    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.94) | (3.16) | (3.38) | (3.61) | (3.84) |
| SIDE LINE 200. FT. | 50     |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ( 60.96 M)         | 63     |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE R=55       | 100    | 44.4   | 49.4   | 49.8   | 49.2   | 49.3   | 50.2   | 51.9   | 49.8   | 52.0   | 54.5   | 54.3   |        |        |        |        |
| CONFIC 7           | 125    | 51.3   | 57.3   | 56.2   | 54.4   | 53.0   | 53.3   | 54.3   | 54.8   | 54.4   | 54.4   | 54.4   | 53.4   |        |        |        |
| LOC SCHEMECTADy    | 160    | 48.4   | 50.2   | 50.4   | 52.1   | 52.1   | 52.0   | 54.0   | 53.9   | 55.3   | 55.3   | 55.3   | 53.6   |        |        |        |
| DATE 12/2/74       | 200    | 47.1   | 48.1   | 49.1   | 51.0   | 52.8   | 54.4   | 56.4   | 56.1   | 56.2   | 56.6   | 54.4   |        |        |        |        |
| RUN 20/10          | 250    | 50.2   | 51.8   | 53.5   | 54.4   | 55.5   | 55.3   | 57.8   | 56.5   | 56.1   | 55.7   | 53.0   |        |        |        |        |
| TAPE               | 315    | 51.6   | 53.7   | 54.1   | 53.3   | 55.9   | 55.8   | 58.5   | 55.9   | 55.2   | 55.1   | 52.3   |        |        |        |        |
| BAR 29.2 HG        | 400    | 49.5   | 51.6   | 52.6   | 53.7   | 54.1   | 54.4   | 57.1   | 54.8   | 54.4   | 54.4   | 51.3   |        |        |        |        |
| (98500. N/M2)      | 500    | 47.7   | 49.3   | 50.0   | 51.9   | 53.2   | 54.1   | 58.8   | 55.4   | 55.0   | 54.0   | 50.0   |        |        |        |        |
| TAMB 47. DEG F     | 630    | 48.6   | 49.9   | 51.9   | 53.6   | 54.9   | 56.8   | 59.9   | 57.6   | 57.1   | 54.3   | 49.3   |        |        |        |        |
| (281. DEG K)       | 800    | 49.9   | 51.3   | 52.5   | 53.7   | 55.3   | 56.4   | 57.5   | 57.2   | 56.4   | 53.9   | 48.2   |        |        |        |        |
| TMET 43. DEG F     | 1000   | 47.1   | 48.6   | 49.6   | 51.6   | 53.2   | 54.5   | 56.7   | 56.2   | 55.6   | 52.9   | 46.6   |        |        |        |        |
| (279. DEG K)       | 1250   | 45.7   | 47.5   | 48.7   | 51.0   | 52.3   | 53.7   | 55.5   | 55.1   | 55.3   | 52.7   | 45.0   |        |        |        |        |
| HACT 6.14 GN/MJ    | 1600   | 45.7   | 47.6   | 49.3   | 52.1   | 53.4   | 54.3   | 55.1   | 54.9   | 55.4   | 52.2   | 44.3   |        |        |        |        |
| (.00814 KC/M3)     | 2000   | 45.5   | 47.6   | 48.8   | 51.5   | 52.5   | 53.1   | 53.9   | 53.9   | 54.6   | 51.1   | 43.4   |        |        |        |        |
| NPA 7063. RPM      | 2500   | 43.5   | 45.9   | 47.4   | 50.6   | 52.6   | 52.7   | 52.4   | 50.4   | 51.4   | 47.3   | 40.9   |        |        |        |        |
| ( 739. RAD/SEC)    | 3150   | 42.4   | 44.1   | 45.3   | 48.3   | 50.6   | 52.1   | 52.1   | 50.6   | 53.2   | 47.3   | 39.6   |        |        |        |        |
| NPK 7148. RPM      | 4000   | 41.0   | 43.4   | 45.3   | 48.6   | 50.9   | 52.2   | 52.8   | 53.5   | 55.3   | 48.5   | 38.7   |        |        |        |        |
| ( 748. RAD/SEC)    | 5000   | 40.4   | 43.3   | 44.5   | 48.1   | 50.8   | 52.4   | 53.0   | 53.4   | 55.7   | 49.0   | 39.0   |        |        |        |        |
| NPD 8823. RPM      | 6300   | 40.8   | 43.3   | 45.4   | 48.8   | 51.3   | 53.9   | 57.0   | 57.8   | 58.2   | 50.7   | 38.8   |        |        |        |        |
| ( 924. RAD/SEC)    | 8000   | 40.3   | 44.0   | 46.1   | 49.6   | 52.4   | 55.7   | 58.6   | 59.5   | 59.3   | 50.9   | 37.5   |        |        |        |        |
| NO. OF BLADES 15   | 10000  | 38.7   | 42.3   | 45.0   | 49.7   | 52.4   | 55.2   | 58.0   | 58.4   | 57.2   | 47.8   | 33.5   |        |        |        |        |
| FAN TIP SPEED      | 12500  | 38.6   | 43.2   | 46.0   | 52.7   | 56.1   | 57.9   | 58.9   | 58.6   | 55.8   | 49.4   | 30.2   |        |        |        |        |
| 617. FT/SEC        | 16000  | 33.8   | 38.3   | 43.0   | 49.7   | 53.2   | 55.4   | 55.6   | 54.6   | 50.3   | 37.3   | 28.0   |        |        |        |        |
|                    | 20000  | 24.9   | 30.9   | 35.7   | 43.6   | 45.3   | 47.4   | 49.6   | 49.0   | 45.0   | 29.6   | 7.6    |        |        |        |        |
|                    | 25000  | 15.2   | 21.0   | 25.7   | 32.5   | 36.1   | 38.1   | 39.0   | 38.2   | 32.6   | 15.5   |        |        |        |        |        |
|                    | 31500  | 8.5    | 7.5    | 13.6   | 20.4   | 24.4   | 26.3   | 26.7   | 24.0   | 17.0   |        |        |        |        |        |        |
|                    | 40000  |        |        |        | 2.7    | 7.0    | 6.5    | 6.0    | 3.2    |        |        |        |        |        |        |        |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |        | 60.5   | 63.2   | 63.9   | 65.5   | 67.0   | 68.2   | 70.3   | 69.8   | 69.3   | 64.4   | 62.9   |        |        |        |        |
| PND8               |        | 69.2   | 71.7   | 73.0   | 75.7   | 77.4   | 78.5   | 80.7   | 80.8   | 80.9   | 78.8   | 68.7   |        |        |        |        |

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ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 168    | 180    | 192    | 204    | 216    | 228    | 240    | 252    | 264    | 276    | 288    | 300    |        |       |  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.94) | (3.16) | (3.38) | (3.60) | (3.83) | (4.06) | (4.29) | (4.52) | (4.76) | (5.00) | (5.24) | (5.48) | (5.72) |       |  |
| 50                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |  |
| 63                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |  |
| 80                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |  |
| RADIAL 17. FT.     | 100    | 73.0   | 75.6   | 73.4   | 70.9   | 68.6   | 69.4   | 71.4   | 70.7   | 73.5   | 76.8   | 79.9   |        |        |        |        |        |        |        |        |        |        |        |        | 107.0 |  |
| VEHICLE (S. N)     | 125    | 68.3   | 71.9   | 72.6   | 70.9   | 71.9   | 70.4   | 72.4   | 73.9   | 75.0   | 76.6   | 79.4   |        |        |        |        |        |        |        |        |        |        |        |        | 107.0 |  |
| CONFIG R-SS        | 160    | 68.8   | 69.9   | 69.4   | 70.7   | 71.4   | 70.4   | 73.4   | 73.7   | 75.7   | 78.3   | 80.1   |        |        |        |        |        |        |        |        |        |        |        |        | 108.1 |  |
| LOC SCHENECTADY    | 200    | 68.0   | 68.4   | 69.1   | 70.4   | 71.9   | 73.9   | 75.4   | 76.1   | 77.0   | 79.3   | 81.1   |        |        |        |        |        |        |        |        |        |        |        |        | 109.3 |  |
| DATE 12/2/74       | 250    | 71.0   | 71.4   | 72.4   | 72.9   | 74.4   | 74.4   | 76.1   | 76.1   | 77.5   | 78.6   | 79.8   |        |        |        |        |        |        |        |        |        |        |        |        | 109.7 |  |
| RUN 20/11          | 315    | 72.5   | 73.4   | 73.1   | 74.2   | 74.4   | 74.4   | 75.6   | 75.4   | 76.2   | 78.0   | 79.0   |        |        |        |        |        |        |        |        |        |        |        |        | 109.0 |  |
| TAPE               | 400    | 70.3   | 71.6   | 71.4   | 71.9   | 72.6   | 73.2   | 75.9   | 75.1   | 76.5   | 77.9   | 78.3   |        |        |        |        |        |        |        |        |        |        |        |        | 109.0 |  |
| BAR 29.2 HG        | 500    | 68.6   | 70.1   | 69.9   | 71.4   | 71.9   | 73.4   | 77.1   | 75.7   | 76.7   | 77.8   | 77.6   |        |        |        |        |        |        |        |        |        |        |        |        | 109.0 |  |
| (98500. N/M2)      | 630    | 70.1   | 70.9   | 72.1   | 73.2   | 74.4   | 76.2   | 79.6   | 78.9   | 79.2   | 79.8   | 77.9   |        |        |        |        |        |        |        |        |        |        |        |        | 111.1 |  |
| TANK 47. DEG F     | 800    | 72.1   | 72.6   | 73.4   | 73.4   | 75.1   | 75.9   | 77.8   | 78.4   | 78.7   | 78.8   | 77.4   |        |        |        |        |        |        |        |        |        |        |        |        | 110.6 |  |
| (281. DEG K)       | 1000   | 68.1   | 69.1   | 69.9   | 71.7   | 73.1   | 74.7   | 77.6   | 77.0   | 78.2   | 78.8   | 78.0   |        |        |        |        |        |        |        |        |        |        |        |        | 109.0 |  |
| TNET 43. DEG F     | 1250   | 66.9   | 67.7   | 68.6   | 70.7   | 72.2   | 73.5   | 75.8   | 76.9   | 78.2   | 78.9   | 74.9   |        |        |        |        |        |        |        |        |        |        |        |        | 108.9 |  |
| (279. DEG K)       | 1600   | 68.2   | 68.7   | 69.6   | 72.0   | 73.2   | 75.0   | 77.6   | 78.0   | 80.5   | 80.9   | 78.1   |        |        |        |        |        |        |        |        |        |        |        |        | 110.0 |  |
| NACT 6.14 CM/MS    | 2000   | 67.7   | 68.7   | 69.1   | 70.1   | 70.7   | 71.7   | 73.3   | 73.1   | 75.0   | 75.6   | 78.6   |        |        |        |        |        |        |        |        |        |        |        |        | 109.5 |  |
| (0.0614 KG/MS)     | 2500   | 65.9   | 65.9   | 67.4   | 70.3   | 71.7   | 73.2   | 73.3   | 71.8   | 73.7   | 73.6   | 76.8   |        |        |        |        |        |        |        |        |        |        |        |        | 105.0 |  |
| NFA 6269. RPM      | 3150   | 64.9   | 65.9   | 66.3   | 68.9   | 71.9   | 73.0   | 73.3   | 73.1   | 76.8   | 76.1   | 71.3   |        |        |        |        |        |        |        |        |        |        |        |        | 107.1 |  |
| (656. RAD/SEC)     | 4000   | 64.3   | 65.7   | 66.3   | 69.1   | 71.2   | 72.9   | 74.2   | 76.8   | 79.4   | 78.6   | 71.7   |        |        |        |        |        |        |        |        |        |        |        |        | 108.1 |  |
| NFK 6343. RPM      | 5000   | 64.5   | 65.1   | 66.2   | 68.8   | 70.9   | 73.9   | 77.9   | 78.9   | 81.1   | 78.8   | 73.4   |        |        |        |        |        |        |        |        |        |        |        |        | 110.1 |  |
| (664. RAD/SEC)     | 6300   | 66.1   | 67.2   | 68.4   | 71.2   | 73.3   | 76.9   | 80.1   | 81.7   | 84.6   | 81.8   | 78.0   |        |        |        |        |        |        |        |        |        |        |        |        | 113.1 |  |
| NFB 6823. RPM      | 8000   | 66.7   | 68.6   | 69.7   | 72.7   | 75.5   | 79.0   | 82.4   | 84.4   | 88.4   | 83.2   | 77.1   |        |        |        |        |        |        |        |        |        |        |        |        | 115.4 |  |
| (924. RAD/SEC)     | 10000  | 68.2   | 69.9   | 72.2   | 77.0   | 80.0   | 82.8   | 85.1   | 86.1   | 87.8   | 83.9   | 76.5   |        |        |        |        |        |        |        |        |        |        |        |        | 117.8 |  |
| NO. OF BLADES 15   | 12500  | 75.0   | 76.3   | 79.8   | 85.3   | 89.9   | 92.3   | 91.5   | 92.7   | 91.7   | 87.3   | 84.4   |        |        |        |        |        |        |        |        |        |        |        |        | 120.3 |  |
| FAN TIP SPEED      | 16000  | 68.7   | 70.3   | 73.6   | 79.1   | 83.6   | 86.4   | 88.5   | 89.8   | 89.5   | 83.3   | 78.4   |        |        |        |        |        |        |        |        |        |        |        |        | 120.3 |  |
| 547. FT/SEC        | 20000  | 67.5   | 68.4   | 71.1   | 76.3   | 79.9   | 82.8   | 85.9   | 88.3   | 90.6   | 83.8   | 77.8   |        |        |        |        |        |        |        |        |        |        |        |        | 120.0 |  |
| 25000              |        | 66.3   | 67.8   | 68.0   | 72.6   | 76.5   | 79.3   | 82.8   | 84.9   | 85.9   | 80.8   | 75.1   |        |        |        |        |        |        |        |        |        |        |        |        | 119.0 |  |
| 31500              |        | 65.4   | 65.3   | 66.8   | 71.4   | 75.0   | 77.7   | 80.5   | 82.3   | 83.2   | 78.1   | 71.9   |        |        |        |        |        |        |        |        |        |        |        |        | 118.4 |  |
| 40000              |        | 65.6   | 64.7   | 66.3   | 69.3   | 72.5   | 75.4   | 78.3   | 78.9   | 80.8   | 75.8   | 68.9   |        |        |        |        |        |        |        |        |        |        |        |        | 114.2 |  |
| 50000              |        | 68.7   | 65.3   | 66.5   | 67.3   | 70.1   | 71.6   | 74.8   | 74.2   | 75.8   | 72.6   | 66.5   |        |        |        |        |        |        |        |        |        |        |        |        | 113.3 |  |
| 63000              |        | 70.8   | 66.2   | 69.7   | 66.8   | 68.5   | 68.4   | 70.8   | 68.8   | 70.7   | 68.2   | 68.3   |        |        |        |        |        |        |        |        |        |        |        |        | 112.2 |  |
| 80000              |        | 73.4   | 69.2   | 72.0   | 69.1   | 68.3   | 69.9   | 70.3   | 69.2   | 68.8   | 68.8   | 68.0   |        |        |        |        |        |        |        |        |        |        |        |        | 111.1 |  |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |  |
| OVERALL CALCULATED |        | 84.2   | 85.0   | 86.2   | 89.4   | 92.8   | 95.3   | 96.3   | 97.4   | 98.3   | 94.8   | 92.1   |        |        |        |        |        |        |        |        |        |        |        |        | 120.7 |  |
| PNDB               |        | 92.2   | 93.3   | 93.9   | 96.0   | 98.0   | 100.1  | 102.6  | 103.5  | 105.8  | 104.2  | 100.3  |        |        |        |        |        |        |        |        |        |        |        |        |       |  |

ORIGINAL PAGE IS OF POOR QUALITY

|                           | FREQ. | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 159    | 0.  | 0.  | 0.  | 0.  | 0.  | 0.   |
|---------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|------|
|                           |       | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0. | (0. | (0. | (0. | (0. | (0.) |
| SIDE LINE 200. FT.        | 50    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |
| ( 60.96 M)                | 63    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |
| VEHICLE R-55              | 80    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |
| CONFIG 7                  | 100   | 49.4   | 52.9   | 51.3   | 49.2   | 47.0   | 47.7   | 49.2   | 47.6   | 49.0   | 50.3   | 49.8   |     |     |     |     |     |      |
| LOC SCHENECTADY           | 125   | 44.5   | 49.1   | 50.5   | 49.1   | 50.2   | 48.6   | 50.1   | 50.8   | 50.4   | 49.9   | 49.1   |     |     |     |     |     |      |
| DATE 12/2/74              | 160   | 44.9   | 47.0   | 47.2   | 48.8   | 49.6   | 48.5   | 51.0   | 50.4   | 51.1   | 51.5   | 49.6   |     |     |     |     |     |      |
| RUN 26/11                 | 200   | 44.1   | 45.4   | 46.8   | 48.5   | 50.1   | 51.9   | 52.9   | 52.8   | 52.2   | 52.4   | 50.4   |     |     |     |     |     |      |
| TAPE                      | 250   | 47.0   | 48.3   | 50.0   | 50.9   | 52.5   | 52.3   | 53.6   | 52.7   | 52.6   | 51.5   | 48.7   |     |     |     |     |     |      |
| BAR 29.2 HG               | 315   | 48.4   | 50.2   | 50.8   | 52.1   | 52.4   | 52.3   | 53.0   | 51.9   | 51.2   | 51.3   | 47.8   |     |     |     |     |     |      |
| (99500. N/M2)             | 400   | 46.0   | 48.4   | 48.8   | 49.7   | 50.6   | 50.9   | 54.1   | 51.5   | 51.4   | 50.4   | 47.0   |     |     |     |     |     |      |
| TAMS 47. DEG F            | 500   | 44.2   | 46.8   | 47.2   | 49.2   | 49.7   | 51.1   | 54.3   | 51.9   | 51.5   | 50.3   | 46.0   |     |     |     |     |     |      |
| (281. DEG K)              | 630   | 45.8   | 47.4   | 49.4   | 50.8   | 52.2   | 53.8   | 56.7   | 55.1   | 53.9   | 52.1   | 46.0   |     |     |     |     |     |      |
| TNET 43. DEG F            | 800   | 47.4   | 49.0   | 50.5   | 51.0   | 52.8   | 53.4   | 54.8   | 54.4   | 53.2   | 50.9   | 45.2   |     |     |     |     |     |      |
| (279. DEG K)              | 1000  | 43.3   | 45.4   | 46.8   | 49.1   | 50.7   | 52.0   | 54.4   | 53.7   | 53.5   | 50.7   | 43.1   |     |     |     |     |     |      |
| HACT 6.14 CM/M3           | 1250  | 41.9   | 43.7   | 45.5   | 48.0   | 49.6   | 50.7   | 52.5   | 52.6   | 52.3   | 50.4   | 42.0   |     |     |     |     |     |      |
| (100614 KC/M3)            | 1600  | 42.9   | 44.6   | 46.3   | 49.1   | 52.4   | 53.9   | 54.1   | 54.1   | 54.4   | 52.2   | 41.8   |     |     |     |     |     |      |
| NFA 6269. RPM             | 2000  | 42.2   | 44.4   | 45.6   | 47.0   | 47.8   | 48.8   | 49.6   | 48.4   | 48.6   | 46.8   | 38.9   |     |     |     |     |     |      |
| ( 656. RAD/SEC)           | 2500  | 40.2   | 42.4   | 43.8   | 47.1   | 48.6   | 49.9   | 49.4   | 48.9   | 47.1   | 44.3   | 36.6   |     |     |     |     |     |      |
| MPK 343. RPM              | 3150  | 38.9   | 41.1   | 42.3   | 45.3   | 47.6   | 49.4   | 49.1   | 47.8   | 51.0   | 46.3   | 36.4   |     |     |     |     |     |      |
| ( 664. RAD/SEC)           | 4000  | 37.8   | 40.4   | 41.8   | 45.1   | 47.4   | 48.9   | 49.5   | 50.2   | 51.8   | 46.0   | 35.7   |     |     |     |     |     |      |
| NFD 8823. RPM             | 5000  | 37.7   | 39.5   | 41.5   | 44.6   | 46.9   | 49.6   | 53.0   | 52.9   | 53.2   | 47.0   | 36.8   |     |     |     |     |     |      |
| ( 924. RAD/SEC)           | 6300  | 38.3   | 40.8   | 42.9   | 46.3   | 48.5   | 51.9   | 54.5   | 54.8   | 55.7   | 49.2   | 38.8   |     |     |     |     |     |      |
| NO. OF BLADES 15          | 8000  | 37.6   | 41.0   | 43.1   | 46.6   | 49.6   | 53.7   | 55.6   | 56.3   | 56.0   | 48.9   | 35.8   |     |     |     |     |     |      |
| FAN TIP SPEED 547. FT/SEC | 10000 | 37.2   | 40.6   | 44.0   | 49.4   | 52.7   | 55.2   | 56.7   | 56.2   | 55.2   | 47.0   | 33.3   |     |     |     |     |     |      |
|                           | 12500 | 41.1   | 44.5   | 49.2   | 55.7   | 60.4   | 62.6   | 60.7   | 60.1   | 56.1   | 48.4   | 33.5   |     |     |     |     |     |      |
|                           | 16000 | 30.2   | 34.3   | 39.3   | 45.7   | 50.5   | 52.9   | 53.8   | 52.1   | 48.8   | 38.0   | 18.8   |     |     |     |     |     |      |
|                           | 20000 | 22.9   | 26.9   | 31.7   | 38.1   | 42.0   | 44.4   | 48.1   | 45.8   | 43.3   | 28.1   | 5.1    |     |     |     |     |     |      |
|                           | 25000 | 13.8   | 17.7   | 21.4   | 27.5   | 31.8   | 34.1   | 35.7   | 34.2   | 29.1   | 12.7   |        |     |     |     |     |     |      |
|                           | 31500 |        | 4.7    | 9.6    | 16.2   | 20.4   | 22.3   | 22.7   | 19.8   | 12.5   |        |        |     |     |     |     |     |      |
|                           | 40000 |        |        |        |        | 3.2    | 5.0    | 4.8    |        |        |        |        |     |     |     |     |     |      |
|                           | 50000 |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |
|                           | 63000 |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |
|                           | 80000 |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |
| OVERALL CALCULATED        |       | 57.7   | 60.1   | 61.1   | 63.1   | 65.4   | 67.1   | 67.8   | 67.2   | 66.4   | 63.5   | 56.8   |     |     |     |     |     |      |
| PND0                      |       | 66.0   | 68.4   | 69.8   | 72.4   | 74.2   | 75.9   | 77.8   | 77.5   | 77.9   | 73.8   | 66.1   |     |     |     |     |     |      |

|                    | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIANS) |           |           |           |           |            |            |            |            |            |            |            |            |            |            |            |
|--------------------|-------|--|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                    |       | 53 (0.92)                                  | 62 (1.08) | 71 (1.24) | 81 (1.41) | 91 (1.58) | 101 (1.76) | 111 (1.94) | 122 (2.13) | 133 (2.32) | 145 (2.52) | 156 (2.73) | 180 (3.14) | 210 (3.66) | 240 (4.19) | 270 (4.71) | 300 (5.24) |
| RADIAL 17. FT.     | 50    |  |           |           |           |           |            |            |            |            |            |            |            |            |            |            |            |
|                    | 63    |  |           |           |           |           |            |            |            |            |            |            |            |            |            |            |            |
|                    | 80    |  |           |           |           |           |            |            |            |            |            |            |            |            |            |            |            |
| VEHICLE ( 5. M)    | 100   | 65.0                                       | 66.4      | 70.4      | 75.9      | 75.4      | 74.2       | 71.0       | 71.4       | 68.7       | 73.3       | 76.6       |            |            |            |            | 107.5      |
| CGNFIG R-55        | 125   | 66.3                                       | 70.4      | 71.9      | 68.9      | 69.6      | 67.9       | 68.6       | 75.4       | 71.5       | 73.1       | 76.1       |            |            |            |            | 105.6      |
| LOC SCHEMECTADY    | 200   | 65.8                                       | 66.6      | 67.1      | 67.4      | 68.0      | 67.9       | 69.4       | 75.9       | 72.0       | 73.6       | 75.6       |            |            |            |            | 105.4      |
| DATE 12/2/74       | 250   | 68.0                                       | 68.6      | 69.6      | 70.1      | 70.6      | 71.4       | 72.6       | 74.6       | 73.5       | 74.8       | 75.6       |            |            |            |            | 106.6      |
| RUN 26/12          | 315   | 69.0                                       | 69.9      | 70.1      | 70.4      | 71.4      | 71.4       | 71.6       | 74.1       | 72.7       | 74.1       | 77.3       |            |            |            |            | 106.9      |
| TAPE               | 400   | 67.6                                       | 68.9      | 70.9      | 69.4      | 69.9      | 70.2       | 71.4       | 75.1       | 73.0       | 74.1       | 75.8       |            |            |            |            | 106.2      |
| BAR 20.2 HG        | 500   | 66.1                                       | 67.6      | 69.1      | 68.4      | 69.4      | 70.2       | 72.1       | 79.7       | 73.6       | 74.6       | 74.6       |            |            |            |            | 107.4      |
| 196500. M/H2)      | 630   | 67.6                                       | 68.6      | 70.4      | 70.7      | 71.9      | 73.4       | 75.4       | 78.2       | 76.7       | 76.8       | 76.4       |            |            |            |            | 108.0      |
| TAMB 47. DEG F     | 800   | 70.9                                       | 71.1      | 71.6      | 71.2      | 72.6      | 73.4       | 75.6       | 82.6       | 76.5       | 76.6       | 74.1       |            |            |            |            | 110.3      |
| ( 281. DEG K)      | 1000  | 65.4                                       | 68.9      | 67.4      | 68.4      | 70.1      | 71.9       | 74.1       | 78.6       | 77.0       | 78.6       | 73.1       |            |            |            |            | 107.2      |
| TMET 43. DEG F     | 1250  | 65.2                                       | 65.7      | 66.6      | 70.0      | 70.7      | 72.6       | 75.1       | 78.9       | 78.7       | 79.6       | 73.0       |            |            |            |            | 109.1      |
| ( 279. DEG K)      | 1500  | 63.7                                       | 64.4      | 66.0      | 67.3      | 68.5      | 69.7       | 72.6       | 78.1       | 74.2       | 75.4       | 76.6       |            |            |            |            | 108.6      |
| MACT 6.14 GN/M3    | 2000  | 65.9                                       | 68.9      | 68.9      | 67.6      | 68.5      | 69.0       | 69.8       | 69.9       | 71.0       | 71.9       | 69.1       |            |            |            |            | 103.6      |
| ( 0.00614 KG/M3)   | 2500  | 62.7                                       | 63.7      | 65.6      | 66.8      | 68.5      | 70.2       | 69.8       | 69.3       | 70.7       | 71.1       | 67.6       |            |            |            |            | 103.2      |
| NFA 5492. RPM      | 3150  | 61.6                                       | 61.9      | 65.1      | 64.4      | 67.0      | 68.5       | 68.8       | 69.1       | 71.7       | 72.1       | 66.0       |            |            |            |            | 102.6      |
| ( 575. RAD/SEC)    | 4000  | 61.8                                       | 62.9      | 74.5      | 65.6      | 66.2      | 68.9       | 70.4       | 73.2       | 77.1       | 77.8       | 76.7       |            |            |            |            | 106.6      |
| NFK 5557. RPM      | 5000  | 61.8                                       | 62.4      | 70.2      | 65.1      | 67.9      | 70.1       | 73.4       | 75.7       | 76.1       | 76.8       | 76.2       |            |            |            |            | 106.2      |
| ( 582. RAD/SEC)    | 6300  | 63.8                                       | 64.7      | 73.6      | 67.9      | 70.5      | 73.1       | 75.9       | 79.5       | 80.8       | 76.7       | 73.2       |            |            |            |            | 110.3      |
| NFD 8023. RPM      | 8000  | 64.7                                       | 65.3      | 76.4      | 69.9      | 73.8      | 76.3       | 78.6       | 81.4       | 82.7       | 81.2       | 74.6       |            |            |            |            | 112.2      |
| ( 824. RAD/SEC)    | 10000 | 69.7                                       | 71.2      | 74.2      | 79.0      | 83.3      | 84.8       | 86.4       | 87.4       | 88.0       | 84.9       | 81.7       |            |            |            |            | 116.6      |
| NO. OF BLADES 15   | 12500 | 73.5                                       | 75.6      | 78.0      | 83.5      | 90.4      | 91.8       | 90.7       | 90.0       | 90.8       | 85.6       | 81.2       |            |            |            |            | 123.6      |
| FAN TIP SPEED      | 16000 | 65.7                                       | 67.5      | 69.6      | 74.6      | 79.3      | 81.4       | 83.8       | 85.8       | 85.8       | 81.3       | 78.6       |            |            |            |            | 116.4      |
| 479. FT/SEC        | 20000 | 65.2                                       | 65.1      | 68.8      | 71.5      | 75.4      | 77.8       | 81.4       | 84.1       | 85.9       | 80.8       | 74.6       |            |            |            |            | 116.6      |
|                    | 25000 | 65.5                                       | 65.9      | 65.8      | 68.8      | 72.5      | 74.6       | 77.8       | 80.9       | 82.7       | 78.6       | 71.6       |            |            |            |            | 113.1      |
|                    | 31500 | 64.6                                       | 64.3      | 65.9      | 67.9      | 71.8      | 73.7       | 75.2       | 77.6       | 79.2       | 78.1       | 68.6       |            |            |            |            | 111.2      |
|                    | 40000 | 65.3                                       | 63.9      | 64.8      | 65.8      | 68.8      | 70.7       | 73.3       | 75.4       | 76.3       | 73.8       | 64.4       |            |            |            |            | 110.2      |
|                    | 50000 | 68.4                                       | 65.8      | 67.2      | 68.8      | 67.3      | 68.4       | 70.6       | 70.5       | 72.1       | 69.6       | 63.8       |            |            |            |            | 109.2      |
|                    | 63000 | 78.0                                       | 66.7      | 69.4      | 66.8      | 67.8      | 67.2       | 69.1       | 67.0       | 68.0       | 66.8       | 64.3       |            |            |            |            | 111.0      |
|                    | 80000 | 73.4                                       | 69.2      | 72.8      | 69.1      | 69.3      | 69.9       | 70.3       | 69.2       | 68.1       | 68.8       | 67.8       |            |            |            |            | 117.1      |
| OVERALL MEASURED   |       |  |           |           |           |           |            |            |            |            |            |            |            |            |            |            |            |
| OVERALL CALCULATED |       | 82.3                                       | 82.8      | 86.5      | 87.8      | 92.4      | 93.6       | 94.1       | 95.4       | 95.8       | 92.8       | 89.6       |            |            |            |            | 127.7      |
| PRSD               |       | 89.8                                       | 98.6      | 99.2      | 94.6      | 97.6      | 99.9       | 100.6      | 102.6      | 102.9      | 102.2      | 98.7       |            |            |            |            | ??         |

126  
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↑  
LOW  
FREQ  
??  
100 - 500 Hz

|                           | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 159    | 180   | 210   | 240   | 270   | 300   | 330   | 360   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| FREQ.                     | (0.92) | (1.06) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.0) | (3.3) | (3.6) | (3.9) | (4.2) | (4.5) | (4.8) |
| SIDELINE 200. FT.         | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50    | 50    | 50    | 50    | 50    | 50    | 50    |
| (60.96 M)                 | 80     | 80     | 80     | 80     | 80     | 80     | 80     | 80     | 80     | 80     | 80     | 80    | 80    | 80    | 80    | 80    | 80    | 80    |
| VEHICLE R-55              | 100    | 41.4   | 45.7   | 51.3   | 54.2   | 53.8   | 52.4   | 49.7   | 46.3   | 44.3   | 40.8   | 46.5  |       |       |       |       |       |       |
| CONFIG 7                  | 125    | 42.5   | 47.6   | 49.7   | 47.1   | 48.0   | 46.1   | 46.3   | 52.3   | 46.9   | 46.4   | 45.9  |       |       |       |       |       |       |
| LOC SCHENECTADY           | 150    | 41.9   | 43.7   | 43.9   | 45.6   | 46.9   | 46.0   | 47.0   | 52.7   | 47.3   | 47.0   | 45.1  |       |       |       |       |       |       |
| DATE 12/2/74              | 200    | 41.6   | 43.4   | 43.1   | 45.5   | 47.3   | 47.9   | 46.9   | 52.3   | 49.5   | 46.6   | 46.7  |       |       |       |       |       |       |
| RUN 26/12                 | 250    | 44.7   | 45.5   | 47.2   | 46.1   | 48.7   | 49.3   | 50.3   | 53.2   | 48.6   | 47.7   | 44.7  |       |       |       |       |       |       |
| TAPE                      | 315    | 44.9   | 46.7   | 47.6   | 48.3   | 49.4   | 49.3   | 49.0   | 50.6   | 47.7   | 46.9   | 46.3  |       |       |       |       |       |       |
| BAR 29.2 HG               | 400    | 43.3   | 45.6   | 46.3   | 47.2   | 47.8   | 47.9   | 46.6   | 51.5   | 47.9   | 46.7   | 44.5  |       |       |       |       |       |       |
| (98500. N/M2)             | 500    | 41.7   | 44.3   | 46.5   | 46.2   | 47.2   | 47.9   | 49.3   | 55.9   | 46.2   | 47.0   | 43.0  |       |       |       |       |       |       |
| TAMB 47. DEG F            | 630    | 43.1   | 45.2   | 47.6   | 48.3   | 49.7   | 51.0   | 52.4   | 55.3   | 51.4   | 49.1   | 42.5  |       |       |       |       |       |       |
| (281. DEG K)              | 800    | 46.2   | 47.5   | 48.7   | 48.7   | 50.3   | 50.9   | 52.5   | 56.7   | 50.9   | 48.6   | 42.0  |       |       |       |       |       |       |
| TMET 43. DEG F            | 1000   | 40.6   | 43.1   | 44.3   | 45.0   | 47.7   | 49.3   | 50.9   | 51.5   | 51.3   | 48.4   | 39.6  |       |       |       |       |       |       |
| (279. DEG K)              | 1250   | 40.2   | 41.7   | 43.5   | 47.3   | 48.1   | 49.2   | 51.8   | 54.6   | 52.8   | 51.2   | 41.0  |       |       |       |       |       |       |
| MACT 14 GN/M3             | 1500   | 38.4   | 40.3   | 43.5   | 44.4   | 45.7   | 46.8   | 49.1   | 50.6   | 48.1   | 46.7   | 37.3  |       |       |       |       |       |       |
| (1.36614 KG/M3)           | 2000   | 40.9   | 42.8   | 45.3   | 44.5   | 45.9   | 45.9   | 48.1   | 45.2   | 44.6   | 42.8   | 35.4  |       |       |       |       |       |       |
| NPA 5492. RPM             | 2500   | 37.0   | 39.2   | 43.9   | 43.6   | 45.4   | 46.9   | 48.9   | 44.4   | 44.1   | 41.8   | 33.4  |       |       |       |       |       |       |
| ( 575. RAD/SEC)           | 3150   | 35.6   | 37.1   | 43.1   | 40.8   | 43.6   | 44.9   | 44.6   | 43.8   | 44.7   | 42.3   | 31.9  |       |       |       |       |       |       |
| NPK 5557. RPM             | 4000   | 35.3   | 37.6   | 50.1   | 41.6   | 44.4   | 45.9   | 45.8   | 47.5   | 49.6   | 47.2   | 34.7  |       |       |       |       |       |       |
| ( 582. RAD/SEC)           | 5000   | 34.9   | 36.8   | 54.5   | 40.8   | 43.9   | 45.9   | 46.5   | 49.8   | 48.2   | 45.8   | 33.5  |       |       |       |       |       |       |
| NPD 6823. RPM             | 6300   | 36.1   | 38.3   | 46.2   | 43.8   | 45.8   | 46.1   | 50.2   | 52.6   | 51.9   | 47.4   | 34.8  |       |       |       |       |       |       |
| ( 924. RAD/SEC)           | 8000   | 35.6   | 38.7   | 43.8   | 43.9   | 47.1   | 56.2   | 51.8   | 53.3   | 52.3   | 46.9   | 33.3  |       |       |       |       |       |       |
| NO. OF BLADES 15          | 10000  | 38.7   | 41.8   | 49.0   | 51.4   | 53.9   | 57.2   | 58.0   | 57.4   | 55.5   | 48.0   | 30.5  |       |       |       |       |       |       |
| PAW TIP SPEED 479. FT/SEC | 12500  | 39.6   | 43.7   | 47.5   | 53.7   | 60.9   | 61.6   | 59.9   | 57.4   | 54.3   | 44.7   | 30.2  |       |       |       |       |       |       |
|                           | 15000  | 27.2   | 31.5   | 35.3   | 41.2   | 46.2   | 47.9   | 49.1   | 46.8   | 44.8   | 34.8   | 18.2  |       |       |       |       |       |       |
|                           | 20000  | 28.6   | 23.7   | 24.4   | 33.3   | 37.5   | 39.4   | 41.6   | 41.5   | 38.8   | 28.1   | 1.8   |       |       |       |       |       |       |
|                           | 25000  | 12.2   | 16.2   | 17.2   | 23.7   | 27.8   | 29.3   | 30.7   | 30.2   | 28.9   | 18.7   |       |       |       |       |       |       |       |
|                           | 31500  |        | 3.7    | 8.9    | 12.7   | 16.4   | 18.3   | 17.4   | 15.3   | 8.8    |        |       |       |       |       |       |       |       |
|                           | 40000  |        |        |        |        |        | 8.3    |        |        |        |        |       |       |       |       |       |       |       |
|                           | 50000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
|                           | 63000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
|                           | 80000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
| OVERALL CALCULATED        |        | 54.8   | 57.1   | 61.8   | 61.8   | 64.7   | 65.6   | 68.4   | 66.9   | 63.7   | 60.7   | 58.6  |       |       |       |       |       |       |
| PHSD                      |        | 63.8   | 65.8   | 70.7   | 69.8   | 72.6   | 73.7   | 74.8   | 76.2   | 74.4   | 71.8   | 68.3  |       |       |       |       |       |       |

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 10/11/74  
 PHSD

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - NOV-11-82 DAY 3 No. 11.1

MODEL SOUND PRESSURE LEVELS 150. DEG. F, 70 PERCENT REL. HUM., DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 167    | 178    | 189    | 200    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.95) | (3.18) | (3.42) | (3.67) |
| RADIAL 17. FT.     | 50     |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ( S. M)            | 63     |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE R-98       | 100    | 74.3   | 69.1   | 68.4   | 68.7   | 63.6   | 61.9   | 70.9   | 73.4   | 71.2   | 75.1   | 76.4   |        |        | 113.3  |
| CONFIG 7R          | 125    | 66.0   | 78.9   | 71.4   | 58.2   | 72.4   | 66.9   | 68.1   | 70.7   | 71.2   | 72.3   | 74.6   |        |        | 105.8  |
| LOC SCHENECTADY    | 160    | 65.0   | 74.1   | 65.9   | 58.2   | 68.1   | 67.2   | 68.6   | 69.4   | 71.2   | 73.3   | 74.4   |        |        | 104.2  |
| DATE 12/2 74       | 200    | 65.0   | 74.1   | 66.1   | 59.4   | 67.9   | 66.9   | 70.9   | 71.9   | 73.0   | 75.3   | 75.0   |        |        | 105.0  |
| RUN 25/1           | 250    | 67.3   | 73.4   | 69.9   | 61.1   | 70.4   | 70.4   | 72.1   | 72.4   | 73.5   | 74.6   | 75.1   |        |        | 106.0  |
| TAPE               | 315    | 68.5   | 74.6   | 70.1   | 58.2   | 70.6   | 70.9   | 71.6   | 71.6   | 72.7   | 74.1   | 73.0   |        |        | 105.0  |
| BAR 29.2 MC        | 400    | 67.6   | 73.6   | 68.6   | 58.7   | 68.4   | 70.2   | 71.4   | 71.9   | 72.5   | 74.1   | 73.0   |        |        | 105.4  |
| (9850. N/M2)       | 500    | 65.6   | 76.9   | 66.4   | 60.4   | 68.9   | 70.2   | 72.1   | 72.7   | 74.0   | 74.6   | 73.4   |        |        | 105.3  |
| TAMP 46. DEG F     | 630    | 67.6   | 71.9   | 69.4   | 61.7   | 72.2   | 73.4   | 75.6   | 75.9   | 76.2   | 76.6   | 74.1   |        |        | 107.0  |
| (281. DEG K)       | 800    | 70.6   | 73.6   | 72.1   | 65.2   | 73.6   | 73.2   | 76.6   | 76.9   | 77.7   | 77.6   | 74.9   |        |        | 109.3  |
| TNEY 43. DEG F     | 1000   | 66.1   | 70.4   | 67.6   | 59.9   | 72.4   | 74.7   | 77.5   | 78.9   | 79.7   | 80.6   | 75.1   |        |        | 110.3  |
| (1279. DEG K)      | 1200   | 67.9   | 70.2   | 70.1   | 60.2   | 79.9   | 81.7   | 84.0   | 85.1   | 83.5   | 84.4   | 77.4   |        |        | 113.0  |
| MACT 6.44 CM/KS    | 1600   | 64.7   | 67.4   | 66.6   | 58.3   | 74.2   | 76.0   | 78.8   | 78.4   | 76.7   | 78.1   | 72.1   |        |        | 109.8  |
| (1.0644 KG/KS)     | 2000   | 64.9   | 69.4   | 66.4   | 61.3   | 68.0   | 69.0   | 70.1   | 69.0   | 70.5   | 72.1   | 68.0   |        |        | 103.2  |
| MFA 3493. RPM      | 2500   | 62.6   | 66.7   | 64.1   | 58.3   | 68.7   | 69.5   | 70.3   | 70.1   | 71.0   | 72.6   | 67.6   |        |        | 103.1  |
| ( 575. RAD/SEC)    | 3150   | 60.6   | 66.9   | 62.8   | 58.4   | 66.0   | 67.7   | 68.7   | 69.1   | 72.0   | 72.9   | 66.3   |        |        | 102.4  |
| MFK 3543. RPM      | 4000   | 61.6   | 66.6   | 63.5   | 58.3   | 68.0   | 70.2   | 71.2   | 74.0   | 76.0   | 77.0   | 70.0   |        |        | 106.3  |
| ( 582. RAD/SEC)    | 5000   | 61.0   | 66.4   | 63.2   | 58.3   | 67.2   | 69.9   | 74.3   | 76.1   | 76.0   | 77.5   | 73.4   |        |        | 107.0  |
| MFD 3823. RPM      | 6300   | 64.1   | 67.7   | 65.9   | 59.4   | 70.5   | 73.6   | 77.1   | 79.9   | 80.8   | 80.0   | 78.2   |        |        | 110.4  |
| ( 924. RAD/SEC)    | 8000   | 64.7   | 68.6   | 67.6   | 59.9   | 73.2   | 77.0   | 79.6   | 81.9   | 82.9   | 82.4   | 75.3   |        |        | 112.7  |
| NO. OF BLADES 15   | 10000  | 69.2   | 72.9   | 73.0   | 64.7   | 82.7   | 84.6   | 86.1   | 87.1   | 87.7   | 84.9   | 80.7   |        |        | 118.3  |
| FAN TIP SPEED      | 12500  | 73.7   | 78.3   | 79.0   | 70.4   | 80.4   | 86.4   | 89.9   | 88.2   | 89.4   | 85.7   | 80.4   |        |        | 122.1  |
| 400. FT/SEC        | 16000  | 65.9   | 69.7   | 69.1   | 62.3   | 78.0   | 80.8   | 83.7   | 85.2   | 85.4   | 81.5   | 75.6   |        |        | 116.2  |
|                    | 20000  | 65.4   | 67.8   | 67.0   | 61.2   | 75.1   | 77.9   | 81.6   | 84.2   | 83.8   | 81.2   | 74.5   |        |        | 115.6  |
|                    | 25000  | 64.4   | 66.6   | 65.4   | 61.7   | 71.6   | 74.2   | 77.7   | 80.0   | 81.1   | 77.2   | 71.2   |        |        | 112.1  |
|                    | 31500  | 64.2   | 64.7   | 64.4   | 60.5   | 70.6   | 73.6   | 76.4   | 78.4   | 79.1   | 79.7   | 68.5   |        |        | 111.5  |
|                    | 40000  | 64.9   | 64.3   | 64.9   | 60.9   | 68.1   | 70.8   | 73.6   | 75.0   | 76.0   | 73.1   | 64.3   |        |        | 110.2  |
|                    | 50000  | 67.0   | 65.4   | 67.4   | 63.7   | 67.0   | 68.1   | 70.8   | 70.4   | 73.0   | 69.8   | 63.2   |        |        | 109.1  |
|                    | 63000  | 70.2   | 68.1   | 69.1   | 65.3   | 67.5   | 67.1   | 69.6   | 67.3   | 68.0   | 66.7   | 64.0   |        |        | 108.9  |
|                    | 80000  | 73.5   | 69.8   | 72.0   | 69.2   | 69.4   | 69.9   | 70.4   | 69.2   | 68.1   | 68.5   | 67.1   |        |        | 107.2  |
| OVERALL MEASURES   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED | 82.0   | 67.1   | 65.9   | 77.9   | 82.0   | 93.5   | 94.5   | 95.3   | 95.5   | 93.6   | 89.1   |        |        |        | 127.7  |
| PNBB               | 69.7   | 64.7   | 62.4   | 64.7   | 68.1   | 99.7   | 101.5  | 102.4  | 103.1  | 102.0  | 96.2   |        |        |        |        |

ANGLES FROM INLET IN DEGREES (AND RAD/ANS)

|                             | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 158    | 180   | 200   | 225   | 250   | 270   | 300   | 315   | 340   | 360   |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FREQ                        | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.0) | (3.3) | (3.6) | (3.9) | (4.3) | (4.7) | (5.1) | (5.5) | (6.0) |
| SIDELINE 200. FT.           | 50     | 53     | 56     | 59     | 62     | 66     | 69     | 73     | 77     | 81     | 85     | 89    | 93    | 97    | 101   | 105   | 109   | 113   | 117   | 121   |
| ( 60.98 M)                  | 100    | 50.6   | 57.4   | 58.3   | 47.0   | 62.0   | 60.2   | 56.7   | 50.3   | 46.8   | 44.5   | 46.3  |       |       |       |       |       |       |       |       |
| VEHICLE R=55                | 125    | 42.3   | 53.1   | 49.2   | 36.4   | 50.7   | 45.1   | 45.8   | 47.5   | 46.7   | 45.7   | 44.4  |       |       |       |       |       |       |       |       |
| CONFIG 7R                   | 160    | 41.2   | 51.2   | 43.7   | 36.3   | 46.4   | 45.3   | 46.2   | 46.2   | 46.6   | 46.5   | 43.9  |       |       |       |       |       |       |       |       |
| LOC SCHEMECTAD              | 200    | 41.1   | 51.1   | 43.8   | 37.5   | 46.1   | 46.9   | 46.4   | 46.6   | 46.2   | 46.4   | 45.2  |       |       |       |       |       |       |       |       |
| DATE 12/2 74                | 250    | 43.5   | 50.3   | 47.5   | 39.1   | 48.5   | 48.3   | 49.6   | 49.8   | 48.6   | 47.5   | 44.2  |       |       |       |       |       |       |       |       |
| RUN 23/1                    | 315    | 44.4   | 51.5   | 47.6   | 36.1   | 46.7   | 46.8   | 49.2   | 48.1   | 47.7   | 46.8   | 42.8  |       |       |       |       |       |       |       |       |
| TAPE                        | 400    | 43.3   | 50.4   | 46.1   | 36.5   | 47.3   | 47.9   | 48.8   | 48.3   | 47.4   | 46.7   | 42.5  |       |       |       |       |       |       |       |       |
| BAR 29.2 HG                 | 500    | 41.2   | 47.5   | 43.7   | 36.2   | 46.7   | 47.9   | 49.3   | 48.9   | 48.7   | 47.8   | 41.8  |       |       |       |       |       |       |       |       |
| ( 98500. N/M <sup>2</sup> ) | 630    | 43.1   | 48.4   | 46.6   | 39.3   | 49.9   | 51.0   | 52.7   | 52.0   | 50.9   | 48.8   | 42.3  |       |       |       |       |       |       |       |       |
| TAMP 40. DEG F              | 800    | 45.9   | 50.9   | 49.2   | 42.7   | 51.3   | 52.7   | 53.5   | 52.9   | 52.2   | 49.8   | 42.7  |       |       |       |       |       |       |       |       |
| ( 281. DEG K)               | 1000   | 41.3   | 46.6   | 44.6   | 37.3   | 49.9   | 52.0   | 54.7   | 54.8   | 54.8   | 52.7   | 42.6  |       |       |       |       |       |       |       |       |
| THEY 43. DEG F              | 1250   | 42.9   | 46.2   | 47.0   | 37.5   | 57.3   | 58.9   | 61.5   | 60.8   | 57.6   | 55.9   | 44.5  |       |       |       |       |       |       |       |       |
| ( 270. DEG K)               | 1600   | 39.4   | 43.3   | 43.3   | 35.4   | 51.4   | 53.8   | 55.3   | 53.9   | 50.6   | 48.4   | 38.8  |       |       |       |       |       |       |       |       |
| MACT 6.44 GN/MS             | 2000   | 39.5   | 45.1   | 42.8   | 36.2   | 45.8   | 45.8   | 46.4   | 45.1   | 44.1   | 43.1   | 35.1  |       |       |       |       |       |       |       |       |
| ( 0.00044 KG/MS)            | 2500   | 37.0   | 42.2   | 40.4   | 35.1   | 45.6   | 46.2   | 46.4   | 45.2   | 44.4   | 43.3   | 33.4  |       |       |       |       |       |       |       |       |
| NPA 5493. RPM               | 3150   | 34.6   | 42.1   | 38.6   | 34.6   | 42.6   | 44.1   | 44.6   | 43.8   | 44.9   | 43.8   | 31.4  |       |       |       |       |       |       |       |       |
| ( 575. RAD/SEC)             | 4000   | 35.3   | 41.3   | 39.0   | 34.4   | 44.1   | 46.2   | 46.3   | 46.2   | 46.3   | 47.2   | 34.8  |       |       |       |       |       |       |       |       |
| NPK 55.3. RPM               | 5000   | 34.9   | 40.8   | 38.5   | 34.1   | 43.1   | 45.8   | 46.5   | 50.1   | 46.8   | 46.5   | 33.8  |       |       |       |       |       |       |       |       |
| ( 582. RAD/SEC)             | 6300   | 36.3   | 41.3   | 40.4   | 33.5   | 45.8   | 48.8   | 51.4   | 53.1   | 51.8   | 47.7   | 34.8  |       |       |       |       |       |       |       |       |
| NPB 6023. RPM               | 8000   | 35.5   | 40.9   | 41.0   | 32.9   | 47.4   | 50.8   | 52.8   | 53.7   | 52.8   | 46.2   | 34.8  |       |       |       |       |       |       |       |       |
| ( 624. RAD/SEC)             | 10000  | 38.1   | 43.5   | 45.7   | 37.1   | 55.4   | 56.9   | 57.7   | 57.2   | 55.2   | 46.8   | 35.5  |       |       |       |       |       |       |       |       |
| NO. OF BLADES 15            | 12500  | 39.8   | 46.4   | 48.5   | 40.7   | 58.8   | 60.8   | 59.1   | 57.6   | 53.8   | 44.9   | 29.4  |       |       |       |       |       |       |       |       |
| PAN TIP SPEED               | 16000  | 27.4   | 32.7   | 34.7   | 28.9   | 45.6   | 47.3   | 49.8   | 48.3   | 44.7   | 34.2   | 15.2  |       |       |       |       |       |       |       |       |
| 400. FT/SEC                 | 20000  | 29.8   | 35.6   | 37.6   | 33.0   | 37.2   | 39.6   | 41.8   | 41.7   | 38.8   | 28.5   | 1.7   |       |       |       |       |       |       |       |       |
|                             | 25000  | 11.1   | 17.4   | 18.8   | 16.6   | 27.8   | 29.8   | 30.6   | 29.4   | 24.3   | 9.4    |       |       |       |       |       |       |       |       |       |
|                             | 31500  |        | 4.1    | 7.3    | 8.3    | 16.8   | 18.8   | 18.6   | 15.9   | 8.8    |        |       |       |       |       |       |       |       |       |       |
|                             | 40000  |        |        |        |        |        | 8.4    |        |        |        |        |       |       |       |       |       |       |       |       |       |
|                             | 50000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |       |       |
|                             | 63000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |       |       |
|                             | 80000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |       |       |
| OVERALL CALCULATED          | 55.6   | 62.8   | 61.8   | 52.3   | 64.8   | 67.8   | 67.8   | 66.6   | 64.8   | 62.1   | 58.8   |       |       |       |       |       |       |       |       |       |
| PRES                        | 63.4   | 69.7   | 67.5   | 68.7   | 73.6   | 74.8   | 76.7   | 76.3   | 74.8   | 72.5   | 62.4   |       |       |       |       |       |       |       |       |       |



270

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIANS) |           |           |           |           |            |            |            |            |            |            |            |            |            |  |            |
|--------------------|-------|--|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|------------|
|                    |       | 33 (0.57)                                  | 62 (1.08) | 71 (1.24) | 81 (1.41) | 91 (1.58) | 101 (1.76) | 111 (1.94) | 122 (2.13) | 133 (2.32) | 145 (2.52) | 156 (2.73) | 180 (3.14) | 210 (3.66) | 240 (4.19) |  | 270 (4.71) |
| RADIAL 17. FT.     | 50    |  |           |           |           |           |            |            |            |            |            |            |            |            |            |  |            |
| ( 5. M)            | 60    |  |           |           |           |           |            |            |            |            |            |            |            |            |            |  |            |
| VEHICLE            | 100   | 71.0                                       | 75.4      | 73.9      | 58.7      | 70.5      | 88.2       | 77.9       | 72.2       | 80.2       | 81.0       | 81.0       |            |            |            |  | 111.0      |
| CONFIG             | 125   | 68.0                                       | 70.9      | 72.6      | 58.4      | 74.1      | 78.7       | 79.4       | 73.4       | 81.2       | 83.1       | 81.0       |            |            |            |  | 112.0      |
| LOC SCHENECTADY    | 160   | 68.5                                       | 69.4      | 69.0      | 58.4      | 72.1      | 81.4       | 79.9       | 73.2       | 81.2       | 81.1       | 83.0       |            |            |            |  | 113.3      |
| DATE 12/2 74       | 200   | 67.5                                       | 67.9      | 68.9      | 59.4      | 72.6      | 82.9       | 79.1       | 75.4       | 83.7       | 81.3       | 83.3       |            |            |            |  | 113.2      |
| RUN 25/2           | 250   | 70.5                                       | 71.4      | 72.1      | 60.1      | 73.0      | 84.0       | 78.1       | 75.4       | 83.7       | 81.1       | 82.0       |            |            |            |  | 113.7      |
| TAPE               | 315   | 72.0                                       | 72.0      | 73.6      | 59.9      | 74.9      | 85.4       | 81.8       | 75.6       | 84.7       | 81.0       | 82.0       |            |            |            |  | 114.0      |
| BAR 29.2 HG        | 400   | 71.1                                       | 71.0      | 71.0      | 60.2      | 73.4      | 87.2       | 84.9       | 74.9       | 85.5       | 80.0       | 84.0       |            |            |            |  | 116.1      |
| (00500. N/M2)      | 500   | 69.3                                       | 69.0      | 71.0      | 61.7      | 72.4      | 84.9       | 85.9       | 75.4       | 86.0       | 80.1       | 84.9       |            |            |            |  | 115.7      |
| YAW 40. DEG F      | 630   | 72.4                                       | 70.9      | 72.4      | 61.9      | 74.9      | 87.9       | 86.4       | 78.4       | 86.2       | 82.0       | 83.0       |            |            |            |  | 116.0      |
| TRST 43. DEG F     | 800   | 73.1                                       | 72.6      | 74.6      | 65.9      | 75.4      | 85.9       | 86.1       | 78.6       | 87.8       | 82.6       | 89.0       |            |            |            |  | 117.6      |
| (281. DEG K)       | 1000  | 71.1                                       | 69.1      | 70.9      | 60.7      | 73.4      | 85.2       | 86.3       | 79.0       | 86.2       | 81.1       | 86.1       |            |            |            |  | 116.0      |
| (279. DEG K)       | 1250  | 70.2                                       | 67.0      | 71.6      | 58.5      | 73.4      | 83.2       | 84.6       | 81.4       | 84.2       | 84.1       | 83.1       |            |            |            |  | 115.0      |
| NACT 6.44 CM/MS    | 1600  | 71.4                                       | 67.4      | 73.4      | 61.3      | 80.0      | 86.7       | 84.0       | 81.9       | 86.0       | 86.1       | 70.4       |            |            |            |  | 116.0      |
| (1.0044 KG/MS)     | 2000  | 67.4                                       | 67.9      | 72.1      | 61.6      | 78.7      | 88.0       | 74.6       | 73.0       | 81.5       | 85.9       | 70.3       |            |            |            |  | 112.3      |
| NFA 6270. RPM      | 2500  | 65.4                                       | 66.4      | 67.0      | 58.3      | 71.2      | 78.7       | 76.8       | 72.1       | 77.7       | 79.0       | 72.0       |            |            |            |  | 109.1      |
| ( 657. RAD/SEC)    | 3150  | 64.6                                       | 65.7      | 67.3      | 58.4      | 71.0      | 78.0       | 76.0       | 74.3       | 77.7       | 78.1       | 71.0       |            |            |            |  | 108.8      |
| NPK 6350. RPM      | 4000  | 64.3                                       | 65.4      | 66.5      | 58.3      | 71.0      | 78.7       | 76.4       | 76.2       | 80.1       | 81.0       | 72.7       |            |            |            |  | 110.0      |
| ( 646. RAD/SEC)    | 5000  | 64.0                                       | 64.9      | 66.4      | 58.3      | 71.2      | 74.1       | 79.0       | 79.0       | 81.0       | 80.0       | 78.2       |            |            |            |  | 111.3      |
| NPD 6823. RPM      | 6000  | 66.3                                       | 67.7      | 68.9      | 58.4      | 73.3      | 78.3       | 80.6       | 82.0       | 84.6       | 82.7       | 77.0       |            |            |            |  | 113.7      |
| ( 924. RAD/SEC)    | 8000  | 67.2                                       | 68.0      | 70.1      | 60.4      | 75.9      | 85.2       | 82.6       | 85.4       | 86.7       | 83.9       | 79.3       |            |            |            |  | 116.5      |
| NO. OF BLADES 15   | 10000 | 68.2                                       | 69.9      | 72.2      | 63.4      | 80.2      | 83.3       | 86.1       | 86.9       | 88.0       | 85.4       | 78.4       |            |            |            |  | 117.0      |
| FAN TIP SPEED      | 12500 | 73.9                                       | 76.0      | 79.5      | 70.4      | 89.4      | 91.4       | 90.7       | 91.0       | 91.2       | 87.2       | 84.4       |            |            |            |  | 123.4      |
| 540. FT/SEC        | 16000 | 68.4                                       | 70.2      | 73.0      | 65.1      | 83.0      | 85.3       | 87.7       | 89.4       | 88.7       | 86.5       | 78.0       |            |            |            |  | 120.2      |
| OVERALL MEASURED   | 20000 | 66.9                                       | 68.5      | 71.0      | 63.5      | 79.0      | 83.7       | 85.4       | 88.2       | 90.0       | 84.2       | 78.0       |            |            |            |  | 119.7      |
| OVERALL CALCULATED | 25000 | 65.4                                       | 66.4      | 67.9      | 63.0      | 76.4      | 80.5       | 82.2       | 84.3       | 86.1       | 81.0       | 78.0       |            |            |            |  | 116.7      |
| PROB               | 31500 | 64.5                                       | 64.9      | 66.1      | 62.2      | 74.4      | 77.0       | 80.4       | 81.9       | 83.6       | 78.7       | 72.3       |            |            |            |  | 113.3      |
|                    | 40000 | 64.6                                       | 64.5      | 66.2      | 61.7      | 71.9      | 78.0       | 77.9       | 79.2       | 80.7       | 76.6       | 66.0       |            |            |            |  | 114.0      |
|                    | 50000 | 66.6                                       | 65.2      | 67.4      | 63.7      | 69.0      | 78.1       | 74.3       | 74.4       | 75.8       | 75.1       | 64.2       |            |            |            |  | 113.0      |
|                    | 63000 | 69.5                                       | 65.9      | 68.6      | 65.8      | 67.2      | 75.4       | 76.6       | 69.3       | 76.7       | 73.7       | 64.5       |            |            |            |  | 113.6      |
|                    | 80000 | 73.5                                       | 70.0      | 72.0      | 69.2      | 66.4      | 78.6       | 76.4       | 69.2       | 76.0       | 76.3       | 67.1       |            |            |            |  | 119.2      |
| OVERALL MEASURED   |       |  |           |           |           |           |            |            |            |            |            |            |            |            |            |  |            |
| OVERALL CALCULATED |       | 84.4                                       | 84.0      | 87.2      | 77.0      | 92.7      | 90.0       | 90.1       | 97.5       | 99.8       | 99.0       | 90.5       |            |            |            |  | 221.8      |
| PROB               |       | 83.0                                       | 83.0      | 86.6      | 84.0      | 90.4      | 107.0      | 106.2      | 104.0      | 106.5      | 107.0      | 100.0      |            |            |            |  |            |

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| PARAMETER                       | ANGLE FROM INLET IN DEGREES (AND RADIANS) |            |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
|---------------------------------|---|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------|--------|--------|--------|--------|--------|
|                                 | 53. (0.92)                                | 62. (1.08) | 71. (1.24) | 81. (1.41) | 91. (1.58) | 101. (1.76) | 111. (1.94) | 122. (2.13) | 133. (2.32) | 145. (2.52) | 156. (2.73) | 0. (0) | 0. (0) | 0. (0) | 0. (0) | 0. (0) | 0. (0) |
| 50                              |   |            |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
| 63                              |   |            |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
| SIDELINE 200. FT. (60.96 M)     | 100                                       | 40.1       | 52.7       | 51.0       | 37.0       | 49.0        | 50.4        | 55.7        | 49.1        | 55.0        | 58.0        | 51.0   |        |        |        |        |        |
| VEHICLE R-59                    | 125                                       | 44.3       | 48.1       | 58.5       | 36.6       | 52.5        | 50.0        | 57.1        | 50.3        | 56.7        | 50.4        | 51.4   |        |        |        |        |        |
| CONFIG 7R                       | 150                                       | 44.7       | 46.5       | 47.7       | 36.6       | 53.4        | 59.5        | 57.5        | 49.9        | 56.6        | 54.3        | 53.1   |        |        |        |        |        |
| LOC SCHEMECTADY                 | 200                                       | 43.6       | 44.9       | 40.6       | 37.9       | 50.0        | 60.9        | 56.7        | 52.1        | 59.0        | 54.4        | 52.7   |        |        |        |        |        |
| DATE 12/2 74                    | 250                                       | 46.5       | 48.3       | 49.7       | 34.1       | 51.7        | 62.6        | 55.6        | 52.0        | 58.0        | 54.0        | 51.7   |        |        |        |        |        |
| RUN 25/2                        | 315                                       | 47.9       | 49.7       | 51.1       | 37.8       | 52.9        | 63.3        | 59.2        | 52.1        | 59.7        | 54.3        | 51.0   |        |        |        |        |        |
| TAPE                            | 400                                       | 46.8       | 48.4       | 49.1       | 30.0       | 51.3        | 64.9        | 62.1        | 51.3        | 60.4        | 53.4        | 53.3   |        |        |        |        |        |
| BAR 20.2 HG (60500. N/M2)       | 500                                       | 44.9       | 46.3       | 49.2       | 39.4       | 50.2        | 62.6        | 63.0        | 51.7        | 60.7        | 52.5        | 53.3   |        |        |        |        |        |
| TARD 40. DEG F (4000.0 N/M2)    | 630                                       | 47.8       | 47.4       | 49.6       | 39.6       | 52.7        | 63.9        | 63.4        | 54.9        | 59.9        | 56.1        | 51.0   |        |        |        |        |        |
| TARD 40. DEG F (201. DEG K)     | 800                                       | 46.4       | 49.0       | 51.7       | 43.5       | 53.0        | 63.4        | 63.0        | 54.7        | 61.0        | 54.4        | 57.7   |        |        |        |        |        |
| TARD 43. DEG F (1250. DEG K)    | 1000                                      | 46.3       | 45.4       | 45.0       | 38.1       | 50.9        | 62.9        | 63.2        | 55.9        | 60.9        | 56.9        | 53.0   |        |        |        |        |        |
| TARD 43. DEG F (1250. DEG K)    | 1250                                      | 45.2       | 44.0       | 40.8       | 35.0       | 50.0        | 60.4        | 61.3        | 57.1        | 58.3        | 57.7        | 50.3   |        |        |        |        |        |
| MACT 12.78. DEG K (1.44 CM/MS)  | 1600                                      | 46.2       | 43.3       | 50.0       | 38.4       | 57.2        | 63.0        | 61.3        | 57.4        | 59.0        | 57.4        | 49.1   |        |        |        |        |        |
| MACT 12.78. DEG K (1.0044 M/MS) | 2000                                      | 42.0       | 43.6       | 40.8       | 36.5       | 47.0        | 50.0        | 50.9        | 49.1        | 55.1        | 50.0        | 42.0   |        |        |        |        |        |
| MFA 6270. RPM (657. RAD/SEC)    | 2500                                      | 39.7       | 41.9       | 43.9       | 35.1       | 48.1        | 53.4        | 52.9        | 47.2        | 51.1        | 50.3        | 38.4   |        |        |        |        |        |
| MFA 6270. RPM (657. RAD/SEC)    | 3150                                      | 38.6       | 40.9       | 43.3       | 34.6       | 47.6        | 54.4        | 50.6        | 49.0        | 50.7        | 48.3        | 38.0   |        |        |        |        |        |
| MFA 657. RPM (657. RAD/SEC)     | 4000                                      | 37.8       | 40.1       | 42.0       | 34.4       | 47.1        | 54.7        | 53.0        | 50.8        | 52.8        | 51.0        | 36.7   |        |        |        |        |        |
| MFA 657. RPM (657. RAD/SEC)     | 5000                                      | 37.9       | 39.3       | 41.7       | 34.1       | 47.1        | 49.9        | 55.0        | 53.9        | 53.9        | 49.0        | 41.8   |        |        |        |        |        |
| MFA 606. RPM (606. RAD/SEC)     | 6300                                      | 38.6       | 41.3       | 43.4       | 33.5       | 48.9        | 53.4        | 54.9        | 50.1        | 55.7        | 50.4        | 38.8   |        |        |        |        |        |
| MFA 6023. RPM (624. RAD/SEC)    | 8000                                      | 38.0       | 40.9       | 43.0       | 34.4       | 50.1        | 59.2        | 55.0        | 57.2        | 56.2        | 48.7        | 38.0   |        |        |        |        |        |
| MFA 624. RPM (624. RAD/SEC)     | 10000                                     | 37.1       | 40.5       | 44.0       | 33.9       | 52.9        | 53.7        | 56.7        | 56.0        | 58.8        | 48.8        | 33.8   |        |        |        |        |        |
| NO. OF BLADES IS                | 12500                                     | 40.0       | 44.2       | 49.0       | 40.7       | 50.0        | 61.0        | 59.9        | 50.3        | 58.0        | 40.4        | 33.4   |        |        |        |        |        |
| FAH TIP SPEED                   | 16000                                     | 29.9       | 34.2       | 39.9       | 31.7       | 49.9        | 51.0        | 53.0        | 52.9        | 48.0        | 39.2        | 28.4   |        |        |        |        |        |
| FAH TIP SPEED                   | 20000                                     | 22.1       | 27.1       | 31.6       | 28.2       | 42.0        | 43.3        | 48.0        | 49.7        | 48.7        | 28.8        | 8.2    |        |        |        |        |        |
| FAH TIP SPEED                   | 25000                                     | 12.1       | 17.1       | 21.3       | 17.9       | 31.7        | 35.2        | 36.1        | 33.0        | 29.3        | 13.1        |        |        |        |        |        |        |
| FAH TIP SPEED                   | 31500                                     |            | 4.3        | 9.0        | 7.1        | 19.0        | 22.8        | 22.0        | 19.4        | 12.9        |             |        |        |        |        |        |        |
| FAH TIP SPEED                   | 40000                                     |            |            |            |            | 2.6         | 6.4         | 4.1         |             |             |             |        |        |        |        |        |        |
| FAH TIP SPEED                   | 50000                                     |            |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
| FAH TIP SPEED                   | 63000                                     |            |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
| FAH TIP SPEED                   | 80000                                     |            |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
| OVERALL CALCULATED              |   | 58.1       | 59.8       | 62.7       | 51.4       | 66.0        | 74.4        | 72.0        | 67.0        | 71.4        | 67.3        | 64.1   |        |        |        |        |        |
| FAH                             |   | 67.0       | 64.0       | 71.7       | 60.0       | 70.1        | 84.0        | 82.2        | 78.5        | 81.3        | 78.3        | 71.4   |        |        |        |        |        |



|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 159    | 0    | 0   | 0   | 0   | 0   | 0   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|
| FREQ.              | (0.92) | (1.08) | (1.23) | (1.41) | (1.58) | (1.78) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0) |
| SIDE LINE 200. FT. | 100    | 43.6   | 49.2   | 49.8   | 37.0   | 49.3   | 49.2   | 49.7   | 49.3   | 51.3   | 53.0   | 53.5 |     |     |     |     |     |
| VEHICLE 160.96 N,  | 125    | 49.0   | 50.1   | 50.8   | 40.1   | 53.7   | 51.0   | 53.3   | 54.0   | 53.7   | 54.4   | 53.4 |     |     |     |     |     |
| CONP 16 7R         | 169    | 47.7   | 50.0   | 50.2   | 38.6   | 51.0   | 51.3   | 53.0   | 53.4   | 54.1   | 54.5   | 53.0 |     |     |     |     |     |
| LCC SCENECTAD      | 200    | 46.3   | 47.9   | 48.0   | 36.0   | 52.0   | 54.4   | 55.2   | 55.8   | 55.7   | 55.9   | 53.0 |     |     |     |     |     |
| DATE 12/2 74       | 250    | 50.0   | 51.5   | 53.2   | 41.4   | 55.0   | 55.0   | 56.3   | 55.7   | 55.6   | 55.0   | 52.2 |     |     |     |     |     |
| RUN 23/3           | 315    | 51.0   | 53.2   | 53.9   | 40.0   | 55.4   | 55.5   | 56.0   | 55.4   | 55.0   | 54.0   | 51.0 |     |     |     |     |     |
| TAPE               | 409    | 50.0   | 51.4   | 52.1   | 40.0   | 53.0   | 53.9   | 55.1   | 54.9   | 54.9   | 53.9   | 50.5 |     |     |     |     |     |
| BAR 29.2 HG        | 500    | 47.2   | 49.3   | 49.7   | 40.7   | 53.2   | 53.9   | 55.0   | 55.4   | 54.7   | 53.9   | 49.0 |     |     |     |     |     |
| (00500- N/M2)      | 630    | 46.6   | 50.2   | 51.0   | 41.1   | 54.9   | 54.3   | 56.2   | 57.0   | 56.0   | 54.0   | 49.3 |     |     |     |     |     |
| TANG 40. DEG F     | 800    | 46.7   | 51.5   | 52.8   | 44.0   | 55.5   | 56.0   | 57.0   | 57.4   | 55.0   | 53.0   | 46.2 |     |     |     |     |     |
| (201. DEG K)       | 1000   | 46.0   | 48.1   | 49.0   | 39.3   | 53.7   | 53.3   | 56.7   | 57.7   | 56.5   | 53.9   | 40.9 |     |     |     |     |     |
| TRCY 43. DEG F     | 1250   | 45.7   | 47.2   | 49.2   | 37.0   | 53.0   | 55.2   | 57.0   | 57.3   | 57.1   | 54.9   | 46.3 |     |     |     |     |     |
| (270. DEG K)       | 1600   | 49.4   | 48.3   | 50.0   | 39.0   | 53.9   | 57.5   | 62.3   | 59.0   | 57.6   | 50.7   | 36.3 |     |     |     |     |     |
| MACT 6.44 GN/M3    | 2000   | 48.7   | 47.4   | 49.0   | 40.7   | 52.5   | 56.3   | 60.9   | 58.0   | 56.0   | 55.3   | 44.0 |     |     |     |     |     |
| (.00544 KG/M3)     | 2500   | 43.2   | 45.7   | 47.1   | 36.0   | 52.4   | 52.9   | 52.7   | 50.7   | 51.0   | 47.5   | 39.0 |     |     |     |     |     |
| NPA 7050. RPM      | 3150   | 41.6   | 43.6   | 45.0   | 35.1   | 50.0   | 52.9   | 53.3   | 51.5   | 54.2   | 47.0   | 39.0 |     |     |     |     |     |
| ( 730. RAD/SEC)    | 4000   | 41.3   | 43.0   | 45.0   | 35.1   | 51.1   | 52.7   | 53.5   | 53.7   | 56.3   | 40.7   | 30.2 |     |     |     |     |     |
| NPK 7140. RPM      | 5000   | 40.4   | 42.0   | 44.0   | 34.3   | 50.0   | 52.0   | 53.2   | 50.0   | 50.0   | 40.0   | 30.0 |     |     |     |     |     |
| ( 740. RAD/SEC)    | 6300   | 41.1   | 43.5   | 46.2   | 35.2   | 51.5   | 54.0   | 57.7   | 50.0   | 50.0   | 51.2   | 30.3 |     |     |     |     |     |
| NPS 8023. RPM      | 8000   | 40.3   | 43.9   | 45.0   | 36.4   | 52.0   | 50.4   | 50.0   | 50.5   | 50.7   | 51.7   | 30.5 |     |     |     |     |     |
| ( 824. RAD/SEC)    | 10000  | 38.6   | 42.5   | 45.0   | 36.1   | 53.1   | 55.7   | 50.0   | 50.7   | 50.0   | 40.2   | 34.2 |     |     |     |     |     |
| NO. OF BLADES 15   | 12500  | 38.3   | 41.0   | 46.2   | 37.4   | 55.0   | 57.0   | 50.0   | 54.0   | 50.0   | 40.7   | 30.7 |     |     |     |     |     |
| FAN TIP SPEED      | 16000  | 32.0   | 37.2   | 41.7   | 34.2   | 52.0   | 54.3   | 50.0   | 54.0   | 50.7   | 37.7   | 26.2 |     |     |     |     |     |
| 610. FT/SEC        | 20000  | 24.0   | 30.4   | 35.0   | 28.0   | 45.7   | 47.3   | 50.3   | 40.7   | 44.7   | 30.9   | 7.7  |     |     |     |     |     |
|                    | 25000  | 14.9   | 19.9   | 25.1   | 19.4   | 36.0   | 38.0   | 39.0   | 37.0   | 33.0   | 18.4   |      |     |     |     |     |     |
|                    | 31500  | 8.4    | 7.3    | 13.0   | 8.3    | 24.3   | 20.2   | 27.1   | 24.2   | 17.4   |        |      |     |     |     |     |     |
|                    | 40000  |        |        |        | 6.0    | 6.0    | 6.0    | 3.1    |        |        |        |      |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| OVERALL CALCULATED |        | 60.8   | 62.0   | 63.0   | 62.7   | 67.0   | 68.0   | 70.0   | 70.3   | 68.7   | 66.0   | 60.6 |     |     |     |     |     |
| PHSD               |        | 70.4   | 71.5   | 73.2   | 62.6   | 77.0   | 78.3   | 82.2   | 81.4   | 81.0   | 77.4   | 60.1 |     |     |     |     |     |

|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 159    | 0.    | 0.   | 0.   | 0.   | 0.   | 0.   | PWL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|------|------|------|-------|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.)  | (0.) | (0.) | (0.) | (0.) | (0.) |       |
| RADIAL 17. FT.     | 50     |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
|                    | 63     |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
|                    | 80     |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
| VEHICLE R=55       | 100    | 68.0   | 71.4   | 72.1   | 59.9   | 73.4   | 73.4   | 74.4   | 75.4   | 79.0   | 83.8   | 87.6  |      |      |      |      |      | 112.6 |
| CONFIC 7R          | 125    | 75.3   | 77.6   | 76.6   | 61.9   | 78.4   | 78.4   | 80.1   | 81.2   | 82.5   | 84.3   | 87.1  |      |      |      |      |      | 114.8 |
| LOC SCHENECTADY    | 160    | 74.5   | 75.9   | 75.4   | 62.7   | 76.6   | 75.9   | 78.6   | 80.4   | 82.5   | 84.8   | 87.1  |      |      |      |      |      | 114.3 |
| DATE 12/2 74       | 200    | 73.5   | 73.4   | 74.4   | 62.4   | 77.9   | 79.1   | 80.1   | 82.1   | 83.5   | 86.6   | 88.3  |      |      |      |      |      | 115.6 |
| RUN 2574           | 250    | 78.5   | 78.9   | 80.9   | 67.1   | 82.6   | 83.4   | 84.3   | 86.1   | 86.5   | 88.1   | 88.3  |      |      |      |      |      | 118.4 |
| TAPE               | 315    | 78.5   | 79.6   | 79.4   | 65.7   | 80.4   | 81.2   | 81.8   | 82.6   | 83.5   | 85.3   | 87.1  |      |      |      |      |      | 116.1 |
| BAR 29.2 HG        | 400    | 77.3   | 78.1   | 77.6   | 64.9   | 79.1   | 79.4   | 81.4   | 82.4   | 83.2   | 85.1   | 86.3  |      |      |      |      |      | 115.4 |
| (98500. N/M2)      | 500    | 74.8   | 75.6   | 76.1   | 64.2   | 78.6   | 79.9   | 82.6   | 82.7   | 84.0   | 84.6   | 85.1  |      |      |      |      |      | 119.2 |
| TAMB 46. DEG F     | 630    | 75.6   | 76.1   | 76.9   | 65.2   | 80.4   | 81.2   | 83.6   | 84.4   | 84.5   | 85.3   | 84.4  |      |      |      |      |      | 116.1 |
| (281. DEG K)       | 800    | 77.1   | 76.9   | 77.6   | 67.7   | 80.1   | 81.7   | 83.6   | 84.1   | 84.2   | 85.1   | 84.1  |      |      |      |      |      | 116.1 |
| TMET 43. DEG F     | 1000   | 74.1   | 74.9   | 75.6   | 64.2   | 79.1   | 80.7   | 82.3   | 83.4   | 84.7   | 84.3   | 82.6  |      |      |      |      |      | 115.2 |
| (279. DEG K)       | 1250   | 73.9   | 74.4   | 74.9   | 62.7   | 78.9   | 80.2   | 82.6   | 83.4   | 85.0   | 83.9   | 82.4  |      |      |      |      |      | 115.1 |
| HACT 6.44 CM/M3    | 1600   | 73.4   | 74.2   | 74.9   | 62.5   | 78.5   | 80.5   | 82.6   | 81.6   | 84.2   | 83.6   | 80.4  |      |      |      |      |      | 114.5 |
| (.00844 KG/M3)     | 2000   | 74.9   | 77.7   | 81.1   | 69.3   | 85.0   | 81.2   | 88.3   | 81.4   | 90.5   | 90.6   | 84.6  |      |      |      |      |      | 121.1 |
| NFA 7846. RPM      | 2500   | 72.4   | 73.2   | 74.6   | 62.6   | 78.7   | 79.5   | 79.5   | 80.1   | 82.5   | 80.4   | 79.1  |      |      |      |      |      | 112.8 |
| ( 821. RAD/SEC)    | 3150   | 70.9   | 71.9   | 72.6   | 60.6   | 77.5   | 79.2   | 79.2   | 78.8   | 82.5   | 79.9   | 77.8  |      |      |      |      |      | 112.2 |
| NPK 7946. RPM      | 4000   | 71.3   | 71.6   | 73.5   | 61.8   | 78.7   | 79.7   | 82.4   | 83.0   | 88.1   | 83.1   | 79.7  |      |      |      |      |      | 115.8 |
| ( 832. RAD/SEC)    | 5000   | 70.0   | 70.9   | 72.4   | 61.3   | 77.9   | 79.4   | 82.6   | 84.1   | 85.6   | 82.5   | 78.4  |      |      |      |      |      | 114.9 |
| NPD 8823. RPM      | 6300   | 71.8   | 72.4   | 74.4   | 62.4   | 79.8   | 83.1   | 86.8   | 88.4   | 90.3   | 84.7   | 79.7  |      |      |      |      |      | 118.9 |
| ( 924. RAD/SEC)    | 8000   | 72.2   | 74.1   | 75.6   | 64.4   | 81.7   | 84.7   | 88.6   | 91.4   | 93.2   | 87.6   | 81.5  |      |      |      |      |      | 121.6 |
| NO. OF BLADES 15   | 10000  | 72.0   | 74.1   | 75.7   | 65.2   | 82.5   | 85.1   | 90.1   | 91.9   | 92.7   | 86.1   | 81.4  |      |      |      |      |      | 121.9 |
| FAW TIP SPEED      | 12500  | 73.9   | 75.5   | 78.5   | 69.4   | 86.6   | 88.7   | 93.4   | 94.4   | 94.4   | 88.5   | 83.1  |      |      |      |      |      | 124.7 |
| 685. FT/SEC        | 16000  | 73.4   | 75.5   | 78.8   | 69.6   | 87.5   | 89.6   | 92.5   | 93.9   | 93.2   | 87.3   | 82.8  |      |      |      |      |      | 124.5 |
|                    | 20000  | 72.9   | 75.0   | 79.5   | 70.2   | 87.6   | 90.4   | 93.4   | 95.2   | 95.3   | 88.7   | 83.6  |      |      |      |      |      | 126.2 |
| OVERALL MEASURED   | 25000  | 70.9   | 73.1   | 76.9   | 68.7   | 85.4   | 88.0   | 92.8   | 93.0   | 93.8   | 88.0   | 82.2  |      |      |      |      |      | 125.1 |
| OVERALL CALCULATED | 31500  | 69.2   | 71.4   | 75.1   | 66.5   | 83.6   | 86.8   | 89.9   | 91.9   | 91.9   | 85.5   | 79.3  |      |      |      |      |      | 124.3 |
| PWDB               | 40000  | 67.9   | 69.0   | 72.2   | 65.4   | 80.4   | 82.8   | 86.6   | 88.2   | 88.4   | 82.9   | 73.3  |      |      |      |      |      | 122.2 |
|                    | 50000  | 67.9   | 67.4   | 70.4   | 64.5   | 76.3   | 78.8   | 82.8   | 83.2   | 83.3   | 79.1   | 69.2  |      |      |      |      |      | 119.5 |
|                    | 63000  | 69.7   | 66.9   | 70.1   | 65.8   | 72.2   | 73.9   | 77.3   | 77.0   | 77.5   | 74.7   | 67.0  |      |      |      |      |      | 117.1 |
|                    | 80000  | 73.8   | 71.0   | 73.0   | 69.2   | 73.7   | 71.4   | 75.7   | 77.2   | 76.6   | 76.8   | 70.6  |      |      |      |      |      | 121.3 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
| OVERALL CALCULATED |        | 88.7   | 89.7   | 91.2   | 80.7   | 96.5   | 98.3   | 101.7  | 103.3  | 103.8  | 100.3  | 98.5  |      |      |      |      |      | 134.9 |
| PWDB               |        | 98.4   | 99.9   | 101.8  | 89.9   | 105.7  | 106.2  | 109.4  | 111.3  | 112.3  | 111.0  | 107.7 |      |      |      |      |      |       |

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|                          | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0    | 0 | 0 | 0 | 0 | 0 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|---|---|---|---|---|
| FREQ.                    | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0    | 0 | 0 | 0 | 0 | 0 |
| SIDELINE 200. FT.        | 50     |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
| (61.96 M)                | 63     |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
| VEHICLE R-55             | 100    | 44.4   | 48.7   | 50.1   | 38.2   | 51.8   | 51.7   | 52.2   | 52.3   | 54.5   | 57.3   | 57.5 |   |   |   |   |   |
| CONFIG 7R                | 125    | 51.5   | 54.8   | 54.5   | 40.1   | 56.7   | 56.8   | 57.8   | 58.0   | 57.9   | 57.7   | 56.9 |   |   |   |   |   |
| LOC SCHENECTADY          | 160    | 50.7   | 53.0   | 53.2   | 40.8   | 54.9   | 54.8   | 56.2   | 57.2   | 57.8   | 58.0   | 56.6 |   |   |   |   |   |
| DATE 12/2 74             | 200    | 49.6   | 50.4   | 52.1   | 40.5   | 55.1   | 57.2   | 57.7   | 58.8   | 58.7   | 59.6   | 57.7 |   |   |   |   |   |
| RUN 25/4                 | 250    | 54.5   | 55.8   | 58.5   | 45.1   | 60.7   | 61.3   | 61.8   | 62.7   | 61.6   | 61.9   | 57.5 |   |   |   |   |   |
| TAPE                     | 315    | 54.4   | 56.5   | 56.9   | 43.6   | 58.4   | 59.0   | 59.2   | 59.1   | 58.5   | 58.1   | 56.0 |   |   |   |   |   |
| BAR 20.2 MG              | 400    | 53.0   | 54.8   | 55.1   | 42.7   | 57.1   | 57.2   | 58.6   | 58.8   | 58.1   | 57.7   | 55.0 |   |   |   |   |   |
| (98500 N/M2)             | 500    | 50.4   | 52.3   | 53.5   | 41.9   | 56.5   | 57.8   | 59.8   | 58.9   | 58.7   | 57.8   | 53.8 |   |   |   |   |   |
| TAMB 4.8 DEC F           | 630    | 51.1   | 52.7   | 54.1   | 42.8   | 58.2   | 58.8   | 60.7   | 60.5   | 59.1   | 57.8   | 52.5 |   |   |   |   |   |
| (281 DEC K)              | 800    | 52.4   | 53.3   | 54.7   | 45.2   | 57.8   | 59.2   | 60.5   | 60.2   | 58.7   | 57.1   | 52.0 |   |   |   |   |   |
| TWET 43 DEC F            | 1000   | 49.3   | 51.1   | 52.6   | 41.6   | 56.7   | 58.0   | 59.2   | 59.2   | 59.0   | 58.2   | 50.1 |   |   |   |   |   |
| (279 DEC K)              | 1250   | 48.9   | 50.5   | 51.7   | 40.8   | 56.3   | 57.4   | 59.3   | 59.1   | 59.1   | 55.4   | 49.5 |   |   |   |   |   |
| HACT 6.44 CM/M3          | 1600   | 48.2   | 50.1   | 51.5   | 39.6   | 55.7   | 57.5   | 59.1   | 57.1   | 58.1   | 54.9   | 47.1 |   |   |   |   |   |
| (100644 CM/M3)           | 2000   | 49.5   | 53.4   | 57.6   | 46.2   | 62.0   | 58.1   | 64.6   | 66.6   | 64.1   | 61.8   | 50.9 |   |   |   |   |   |
| NFA 784.1 RPM            | 2500   | 46.7   | 48.7   | 50.9   | 39.3   | 55.8   | 56.2   | 55.7   | 55.2   | 55.8   | 51.0   | 44.0 |   |   |   |   |   |
| (821 RAD/SEC)            | 3150   | 44.9   | 47.1   | 48.6   | 37.1   | 54.1   | 55.6   | 55.1   | 53.5   | 55.4   | 50.8   | 42.9 |   |   |   |   |   |
| NFR 794.6 RPM            | 4000   | 43.8   | 46.3   | 49.0   | 37.9   | 54.9   | 55.7   | 57.8   | 57.2   | 60.8   | 52.5   | 43.7 |   |   |   |   |   |
| (832 RAD/SEC)            | 5000   | 43.2   | 48.3   | 47.7   | 37.1   | 53.9   | 55.1   | 57.7   | 58.1   | 57.7   | 51.5   | 41.8 |   |   |   |   |   |
| NFD 8823 RPM             | 6300   | 44.1   | 48.0   | 48.9   | 37.5   | 55.0   | 58.1   | 61.2   | 61.6   | 61.4   | 52.4   | 41.3 |   |   |   |   |   |
| (924 RAD/SEC)            | 8000   | 43.0   | 48.4   | 49.0   | 38.4   | 55.9   | 58.7   | 61.8   | 63.2   | 62.7   | 53.4   | 40.3 |   |   |   |   |   |
| NO. OF BLADES 15         | 10000  | 40.9   | 44.8   | 47.5   | 37.8   | 55.1   | 57.4   | 61.7   | 61.9   | 60.2   | 49.2   | 38.2 |   |   |   |   |   |
| FAN TIP SPEED 645 FT/SEC | 12500  | 40.0   | 43.7   | 48.0   | 39.7   | 57.1   | 58.8   | 62.8   | 61.8   | 58.8   | 47.7   | 32.2 |   |   |   |   |   |
|                          | 16000  | 34.9   | 39.5   | 44.3   | 36.2   | 54.4   | 56.0   | 57.8   | 57.0   | 52.5   | 40.8   | 22.4 |   |   |   |   |   |
|                          | 20000  | 28.3   | 33.6   | 40.1   | 32.0   | 49.7   | 52.1   | 53.8   | 52.7   | 48.0   | 33.0   | 11.9 |   |   |   |   |   |
|                          | 25000  | 17.6   | 23.9   | 30.3   | 23.8   | 40.7   | 42.7   | 44.9   | 42.4   | 37.8   | 29.1   |      |   |   |   |   |   |
|                          | 31500  | 3.2    | 10.8   | 18.8   | 11.3   | 28.8   | 31.8   | 32.1   | 29.4   | 21.1   |        |      |   |   |   |   |   |
|                          | 40000  |        |        |        |        | 11.1   | 12.4   | 12.9   | 8.1    |        |        |      |   |   |   |   |   |
|                          | 50000  |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
|                          | 63000  |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
|                          | 80000  |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
| OVERALL CALCULATED       |        | 63.1   | 65.2   | 66.8   | 55.0   | 70.6   | 71.3   | 73.8   | 73.6   | 73.0   | 70.1   | 66.8 |   |   |   |   |   |
| PMDB                     |        | 72.5   | 75.2   | 78.0   | 66.2   | 82.4   | 82.1   | 88.2   | 88.1   | 86.1   | 81.5   | 73.8 |   |   |   |   |   |

|                            | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIANS) |              |              |              |              |               |               |               |               |               |               |            |            |            |            | PNL |            |            |
|----------------------------|-------|--|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|------------|------------|------------|-----|------------|------------|
|                            |       | 53<br>(0.92)                               | 62<br>(1.08) | 71<br>(1.24) | 81<br>(1.41) | 91<br>(1.58) | 101<br>(1.76) | 111<br>(1.94) | 122<br>(2.13) | 133<br>(2.32) | 145<br>(2.52) | 156<br>(2.73) | 0°<br>(0.) | 0°<br>(0.) | 0°<br>(0.) | 0°<br>(0.) |     | 0°<br>(0.) | 0°<br>(0.) |
| RADIAL 17. FT.<br>( 5. M ) | 50    |  |              |              |              |              |               |               |               |               |               |               |            |            |            |            |     |            |            |
|                            | 63    |  |              |              |              |              |               |               |               |               |               |               |            |            |            |            |     |            |            |
|                            | 80    |  |              |              |              |              |               |               |               |               |               |               |            |            |            |            |     |            |            |
| VEHICLE R-55               | 100   | 72.8                                       | 73.1         | 74.1         | 88.1         | 74.4         | 74.4          | 75.1          | 76.1          | 79.4          | 83.2          | 87.6          |            |            |            |            |     |            | 112.8      |
| CONFIC 7R                  | 125   | 76.8                                       | 78.1         | 77.1         | 88.1         | 78.9         | 78.6          | 80.4          | 81.4          | 82.9          | 84.5          | 87.6          |            |            |            |            |     |            | 115.1      |
| LOC SCHENECTADY            | 160   | 76.5                                       | 76.6         | 76.6         | 88.1         | 76.4         | 76.1          | 79.4          | 80.9          | 83.1          | 84.7          | 87.6          |            |            |            |            |     |            | 114.7      |
| DATE 12/2 74               | 200   | 74.7                                       | 74.8         | 75.3         | 88.8         | 77.6         | 79.4          | 80.8          | 82.4          | 83.9          | 85.4          | 88.3          |            |            |            |            |     |            | 115.8      |
| RUN 25/5                   | 250   | 81.0                                       | 79.8         | 81.3         | 70.8         | 82.3         | 83.6          | 85.3          | 86.6          | 86.9          | 87.7          | 88.3          |            |            |            |            |     |            | 118.7      |
| TAPE                       | 315   | 80.5                                       | 79.6         | 79.8         | 88.1         | 80.9         | 81.1          | 81.8          | 82.4          | 84.9          | 85.2          | 88.6          |            |            |            |            |     |            | 116.4      |
| BAR 29.2 HG                | 400   | 81.3                                       | 78.8         | 77.8         | 88.6         | 79.9         | 79.8          | 81.6          | 82.4          | 83.6          | 84.9          | 86.1          |            |            |            |            |     |            | 115.7      |
| (98500. N/M2)              | 500   | 80.1                                       | 77.1         | 76.3         | 70.6         | 79.6         | 80.1          | 81.5          | 83.1          | 83.9          | 84.2          | 85.1          |            |            |            |            |     |            | 115.4      |
| TAMB 48. DEG F             | 630   | 81.3                                       | 77.3         | 77.6         | 71.1         | 80.1         | 81.7          | 83.3          | 84.4          | 84.9          | 85.0          | 84.6          |            |            |            |            |     |            | 116.4      |
| (121. DEG K)               | 800   | 82.8                                       | 79.6         | 81.3         | 75.1         | 82.1         | 82.7          | 84.1          | 85.1          | 85.1          | 84.2          | 84.6          |            |            |            |            |     |            | 117.3      |
| TMET 43. DEG F             | 1000  | 76.1                                       | 75.8         | 76.6         | 89.1         | 78.9         | 80.2          | 82.6          | 83.8          | 84.6          | 84.6          | 82.6          |            |            |            |            |     |            | 115.3      |
| (1279. DEG K)              | 1250  | 76.4                                       | 74.8         | 75.6         | 88.2         | 78.7         | 80.9          | 82.6          | 83.1          | 84.4          | 83.2          | 82.3          |            |            |            |            |     |            | 115.8      |
| MACT 6.44 GM/M3            | 1600  | 75.1                                       | 74.6         | 76.1         | 88.2         | 78.5         | 80.2          | 82.3          | 82.3          | 84.2          | 83.3          | 80.6          |            |            |            |            |     |            | 114.6      |
| (.00644 KG/M3)             | 2000  | 76.9                                       | 78.4         | 81.8         | 73.0         | 84.5         | 81.7          | 87.6          | 91.3          | 90.7          | 89.5          | 85.1          |            |            |            |            |     |            | 120.8      |
| MFA 7946. RPM              | 2500  | 73.4                                       | 73.9         | 74.8         | 88.3         | 78.5         | 79.2          | 79.8          | 79.8          | 82.6          | 80.0          | 79.8          |            |            |            |            |     |            | 112.8      |
| ( 821. RAD/SEC )           | 3150  | 71.9                                       | 72.6         | 73.5         | 88.3         | 77.2         | 79.2          | 78.7          | 79.3          | 82.4          | 79.2          | 77.5          |            |            |            |            |     |            | 112.2      |
| MFK 7946. RPM              | 4000  | 71.8                                       | 72.8         | 73.7         | 88.3         | 78.7         | 80.1          | 81.9          | 83.4          | 88.3          | 82.7          | 79.4          |            |            |            |            |     |            | 115.9      |
| ( 832. RAD/SEC )           | 5000  | 71.5                                       | 72.0         | 73.1         | 88.2         | 77.9         | 79.6          | 82.8          | 84.1          | 86.0          | 81.6          | 76.1          |            |            |            |            |     |            | 115.0      |
| MFD 8223. RPM              | 6300  | 72.8                                       | 73.3         | 74.6         | 88.4         | 79.8         | 82.8          | 86.8          | 88.6          | 90.5          | 84.3          | 79.7          |            |            |            |            |     |            | 119.0      |
| ( 924. RAD/SEC )           | 8000  | 73.4                                       | 74.7         | 76.4         | 88.6         | 81.4         | 84.4          | 88.1          | 91.1          | 93.3          | 86.0          | 81.3          |            |            |            |            |     |            | 121.3      |
| NO. OF BLADES 15           | 10000 | 74.4                                       | 74.3         | 76.4         | 88.9         | 82.2         | 85.0          | 89.1          | 91.8          | 92.4          | 85.7          | 81.2          |            |            |            |            |     |            | 121.6      |
| FAN TIP SPEED              | 12500 | 76.4                                       | 77.2         | 79.4         | 72.6         | 86.4         | 88.4          | 92.9          | 94.1          | 94.3          | 87.8          | 83.4          |            |            |            |            |     |            | 124.4      |
| 885. FT/SEC                | 16000 | 74.4                                       | 76.2         | 79.3         | 70.8         | 87.0         | 89.0          | 92.0          | 93.9          | 93.1          | 86.4          | 82.3          |            |            |            |            |     |            | 124.2      |
|                            | 20000 | 75.1                                       | 76.7         | 80.0         | 71.9         | 87.8         | 90.1          | 93.1          | 95.2          | 94.7          | 86.1          | 83.7          |            |            |            |            |     |            | 125.0      |
|                            | 25000 | 75.2                                       | 75.8         | 78.4         | 72.4         | 85.4         | 87.4          | 91.7          | 93.2          | 93.8          | 87.9          | 82.5          |            |            |            |            |     |            | 125.0      |
|                            | 31500 | 74.2                                       | 74.6         | 76.8         | 71.4         | 83.4         | 86.3          | 89.4          | 91.4          | 91.8          | 85.1          | 79.5          |            |            |            |            |     |            | 124.0      |
|                            | 40000 | 74.4                                       | 73.5         | 75.6         | 71.4         | 80.6         | 83.3          | 86.4          | 87.9          | 87.8          | 82.0          | 74.5          |            |            |            |            |     |            | 122.0      |
|                            | 50000 | 77.3                                       | 74.1         | 77.6         | 73.4         | 78.2         | 80.3          | 83.8          | 83.1          | 83.4          | 79.2          | 73.1          |            |            |            |            |     |            | 120.7      |
|                            | 63000 | 79.2                                       | 75.6         | 78.8         | 75.7         | 77.7         | 77.8          | 80.3          | 79.8          | 79.1          | 75.8          | 73.7          |            |            |            |            |     |            | 121.2      |
|                            | 80000 | 83.5                                       | 79.2         | 82.0         | 79.1         | 79.4         | 79.9          | 80.4          | 79.7          | 79.6          | 78.4          | 77.8          |            |            |            |            |     |            | 127.2      |
| OVERALL MEASURED           |       |  |              |              |              |              |               |               |               |               |               |               |            |            |            |            |     |            |            |
| OVERALL CALCULATED         |       | 92.5                                       | 91.2         | 92.6         | 86.4         | 96.6         | 98.3          | 101.4         | 103.2         | 103.7         | 99.7          | 98.6          |            |            |            |            |     |            | 135.8      |
| PNDB                       |       | 100.6                                      | 100.8        | 102.6        | 94.8         | 105.5        | 106.2         | 109.0         | 111.3         | 112.5         | 110.2         | 107.6         |            |            |            |            |     |            |            |

|                    | FREQ. | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 155    | 165    | 175    | 185    | 195    | 205    |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                    |       | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.94) | (3.16) | (3.38) | (3.61) | (3.84) |
| SIDE LINE 200. FT. | 50    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ( 60.96 M)         | 80    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE R-55       | 125   | 49.1   | 50.3   | 52.0   | 46.4   | 52.8   | 52.6   | 52.9   | 53.1   | 55.0   | 56.7   | 57.5   |        |        |        |        |        |
| CGNFIG 7R          | 160   | 53.0   | 53.3   | 54.9   | 46.3   | 57.2   | 56.6   | 58.1   | 58.2   | 58.4   | 57.8   | 57.3   |        |        |        |        |        |
| LOC SCHENECTAD     | 200   | 52.6   | 53.7   | 54.4   | 46.3   | 54.8   | 54.2   | 57.0   | 57.6   | 58.5   | 57.9   | 57.1   |        |        |        |        |        |
| DATE 12/2 74       | 250   | 50.8   | 51.8   | 53.0   | 46.7   | 55.8   | 57.4   | 58.4   | 59.0   | 59.1   | 58.5   | 57.8   |        |        |        |        |        |
| RUN 25/5           | 315   | 56.9   | 56.7   | 56.9   | 48.8   | 60.5   | 61.5   | 62.8   | 63.2   | 62.0   | 60.6   | 57.4   |        |        |        |        |        |
| TAPE               | 400   | 56.3   | 56.4   | 57.3   | 46.0   | 58.9   | 59.0   | 59.2   | 58.8   | 59.9   | 57.9   | 55.7   |        |        |        |        |        |
| BAR 29.2 HG        | 500   | 57.0   | 55.5   | 55.3   | 46.4   | 57.8   | 57.4   | 58.9   | 58.7   | 58.9   | 57.5   | 54.7   |        |        |        |        |        |
| (98500. N/M2)      | 630   | 55.7   | 53.7   | 53.7   | 48.4   | 56.5   | 57.8   | 59.0   | 59.4   | 58.7   | 56.6   | 53.3   |        |        |        |        |        |
| TAMB 46. DEG F     | 800   | 56.8   | 53.8   | 54.8   | 48.8   | 57.9   | 59.2   | 60.4   | 60.5   | 59.5   | 57.2   | 52.7   |        |        |        |        |        |
| (281. DEG K)       | 1000  | 58.2   | 56.0   | 58.4   | 52.7   | 59.8   | 60.1   | 61.0   | 61.1   | 59.8   | 56.2   | 52.4   |        |        |        |        |        |
| T-ET 43. DEG F     | 1250  | 51.3   | 52.1   | 53.8   | 46.5   | 56.4   | 57.5   | 59.4   | 59.7   | 58.9   | 55.8   | 50.1   |        |        |        |        |        |
| (279. DEG K)       | 1600  | 51.4   | 50.9   | 52.4   | 45.5   | 58.1   | 58.1   | 59.2   | 58.8   | 58.5   | 54.8   | 49.5   |        |        |        |        |        |
| MACT 6.44 GM/M3    | 2000  | 49.9   | 50.5   | 52.7   | 45.3   | 55.7   | 57.2   | 58.8   | 57.8   | 58.0   | 54.5   | 47.6   |        |        |        |        |        |
| (1.00644 KG/M3)    | 2500  | 51.4   | 54.1   | 56.3   | 49.8   | 61.3   | 58.6   | 63.9   | 66.6   | 64.3   | 60.4   | 51.3   |        |        |        |        |        |
| NFA 7846. RPM      | 3150  | 47.7   | 49.4   | 51.1   | 45.0   | 55.4   | 55.9   | 55.9   | 54.8   | 56.0   | 50.6   | 44.8   |        |        |        |        |        |
| ( 821. RAD/SEC)    | 4000  | 45.8   | 47.8   | 49.5   | 44.8   | 53.8   | 55.6   | 54.6   | 54.0   | 55.4   | 49.4   | 42.8   |        |        |        |        |        |
| NFK 7846. RPM      | 5000  | 45.2   | 47.3   | 49.3   | 44.3   | 54.9   | 56.1   | 57.3   | 57.7   | 60.7   | 52.1   | 43.4   |        |        |        |        |        |
| ( 632. RAD/SEC)    | 6300  | 44.6   | 46.3   | 48.4   | 44.0   | 53.9   | 55.3   | 57.7   | 58.1   | 58.1   | 50.6   | 41.3   |        |        |        |        |        |
| NPD 8823. RPM      | 8000  | 45.0   | 47.0   | 49.1   | 43.4   | 55.0   | 57.8   | 60.9   | 61.8   | 61.6   | 52.1   | 41.2   |        |        |        |        |        |
| ( 924. RAD/SEC)    | 10000 | 44.3   | 47.1   | 49.8   | 42.8   | 55.6   | 58.4   | 61.3   | 62.9   | 62.0   | 51.8   | 40.8   |        |        |        |        |        |
| NO. OF BLADES 15   | 12500 | 43.4   | 45.8   | 48.2   | 41.3   | 54.9   | 57.4   | 60.7   | 61.9   | 59.9   | 48.9   | 36.8   |        |        |        |        |        |
| FAN TIP SPEED      | 16000 | 42.5   | 45.4   | 48.9   | 42.9   | 56.8   | 58.5   | 62.1   | 61.5   | 58.7   | 47.8   | 32.4   |        |        |        |        |        |
| 685. FT/SEC        | 20000 | 39.9   | 40.2   | 44.9   | 37.4   | 53.9   | 55.5   | 67.3   | 67.0   | 52.4   | 39.1   | 21.9   |        |        |        |        |        |
|                    | 25000 | 30.5   | 35.3   | 40.6   | 33.7   | 50.0   | 51.8   | 53.3   | 52.6   | 47.4   | 32.4   | 11.0   |        |        |        |        |        |
|                    | 31500 | 21.8   | 26.6   | 31.8   | 27.3   | 40.7   | 42.2   | 44.6   | 42.6   | 36.8   | 28.0   |        |        |        |        |        |        |
|                    | 40000 | 8.1    | 14.0   | 19.7   | 16.3   | 28.8   | 30.8   | 31.8   | 28.9   | 21.0   |        |        |        |        |        |        |        |
|                    | 50000 |        |        | 2.8    | 1.2    | 11.3   | 12.9   | 12.6   | 7.8    |        |        |        |        |        |        |        |        |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |       | 66.3   | 66.1   | 67.7   | 60.3   | 78.6   | 71.4   | 73.3   | 74.8   | 73.2   | 69.6   | 66.8   |        |        |        |        |        |
| PNDB               |       | 74.8   | 76.1   | 78.7   | 71.2   | 82.3   | 82.2   | 84.9   | 86.2   | 85.3   | 80.7   | 73.8   |        |        |        |        |        |



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|                                 | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIANS) |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           | PNL |
|---------------------------------|-------|--|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------|-----------|-----------|-----------|-----------|-----|
|                                 |       | 53.<br>(0.92)                              | 62.<br>(1.08) | 71.<br>(1.24) | 81.<br>(1.41) | 91.<br>(1.58) | 101.<br>(1.76) | 111.<br>(1.94) | 122.<br>(2.13) | 133.<br>(2.32) | 145.<br>(2.52) | 156.<br>(2.73) | 0.<br>(0) | 0.<br>(0) | 0.<br>(0) | 0.<br>(0) | 0.<br>(0) |     |
| RADIAL (7. FT. (5. M))          | 50    |  |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           |     |
|                                 | 63    |  |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           |     |
|                                 | 80    |  |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           |     |
| VEHICLE MASS                    | 100   | 74.0                                       | 76.6          | 80.4          | 86.4          | 83.4          | 81.2           | 78.4           | 73.2           | 70.2           | 74.6           | 76.1           |           |           |           |           | 112.7     |     |
| CONFIG 7R                       | 125   | 66.0                                       | 68.9          | 71.1          | 58.2          | 71.6          | 67.2           | 68.1           | 70.2           | 70.7           | 72.6           | 75.1           |           |           |           |           | 104.3     |     |
| LOC SCHENECTADY                 | 160   | 65.8                                       | 66.6          | 66.6          | 58.2          | 67.1          | 66.4           | 68.1           | 69.4           | 71.5           | 73.3           | 74.9           |           |           |           |           | 103.4     |     |
| DATE 12/2 74                    | 200   | 65.5                                       | 65.4          | 66.9          | 58.4          | 68.4          | 69.1           | 71.1           | 71.9           | 73.5           | 76.3           | 76.6           |           |           |           |           | 105.4     |     |
| RUN 25/6                        | 250   | 67.3                                       | 68.9          | 69.4          | 60.9          | 70.4          | 71.1           | 71.6           | 72.4           | 73.7           | 75.1           | 74.8           |           |           |           |           | 103.7     |     |
| TAPE                            | 315   | 69.6                                       | 70.4          | 70.1          | 58.2          | 70.6          | 70.9           | 71.6           | 71.9           | 73.0           | 73.8           | 74.3           |           |           |           |           | 109.4     |     |
| SAR 29.2 MG (98500. N/M2)       | 400   | 68.1                                       | 65.1          | 68.4          | 59.2          | 69.6          | 70.2           | 71.1           | 71.9           | 73.2           | 74.1           | 73.6           |           |           |           |           | 109.6     |     |
| (98500. N/M2)                   | 500   | 65.8                                       | 67.6          | 66.9          | 60.4          | 68.9          | 69.9           | 71.9           | 72.9           | 73.5           | 74.6           | 73.6           |           |           |           |           | 105.1     |     |
| TAMB 46. DEG F (281. DEG K)     | 630   | 67.6                                       | 68.4          | 69.4          | 61.4          | 71.9          | 73.4           | 75.4           | 75.9           | 76.2           | 76.3           | 74.4           |           |           |           |           | 107.7     |     |
| THET 43. DEG F (279. DEG K)     | 800   | 71.1                                       | 71.6          | 72.1          | 65.2          | 73.6          | 75.2           | 76.6           | 77.1           | 77.5           | 77.8           | 75.1           |           |           |           |           | 109.2     |     |
|                                 | 1000  | 66.1                                       | 66.6          | 67.9          | 59.4          | 72.1          | 74.9           | 77.6           | 78.1           | 79.7           | 80.8           | 75.1           |           |           |           |           | 110.2     |     |
| MACT 6.44 GN/M3 (1.00644 KG/M3) | 1250  | 68.4                                       | 67.2          | 70.1          | 60.0          | 78.7          | 81.2           | 84.8           | 84.9           | 83.5           | 84.1           | 76.9           |           |           |           |           | 115.4     |     |
|                                 | 1800  | 65.2                                       | 65.2          | 66.6          | 58.3          | 74.2          | 75.7           | 78.8           | 78.4           | 76.2           | 78.1           | 71.9           |           |           |           |           | 109.3     |     |
| NFA 5491. RPM (575. RAD/SEC)    | 2000  | 65.4                                       | 66.2          | 66.6          | 61.1          | 68.2          | 69.0           | 70.1           | 70.1           | 70.7           | 72.1           | 69.1           |           |           |           |           | 103.1     |     |
|                                 | 2500  | 63.1                                       | 63.9          | 64.4          | 58.3          | 68.2          | 69.7           | 69.9           | 69.6           | 71.7           | 71.8           | 67.8           |           |           |           |           | 102.6     |     |
|                                 | 3150  | 61.6                                       | 61.7          | 62.6          | 58.4          | 68.0          | 68.0           | 68.7           | 69.1           | 72.2           | 72.4           | 66.6           |           |           |           |           | 102.2     |     |
|                                 | 4000  | 62.3                                       | 63.4          | 63.3          | 58.3          | 68.5          | 69.9           | 70.9           | 73.7           | 76.9           | 77.6           | 70.2           |           |           |           |           | 104.1     |     |
|                                 | 5000  | 62.3                                       | 62.6          | 63.4          | 58.3          | 67.4          | 69.9           | 74.1           | 76.4           | 76.6           | 77.8           | 70.4           |           |           |           |           | 107.0     |     |
|                                 | 6300  | 64.1                                       | 64.9          | 65.6          | 58.4          | 70.3          | 73.6           | 77.1           | 79.9           | 81.3           | 80.2           | 73.8           |           |           |           |           | 107.5     |     |
|                                 | 8000  | 65.2                                       | 66.6          | 67.4          | 58.9          | 73.4          | 78.5           | 79.4           | 81.4           | 83.2           | 83.4           | 75.8           |           |           |           |           | 112.6     |     |
|                                 | 10000 | 69.5                                       | 70.9          | 72.9          | 64.2          | 82.7          | 84.8           | 86.1           | 86.6           | 86.2           | 83.1           | 80.9           |           |           |           |           | 118.4     |     |
| NO. OF BLADES 15                | 12500 | 72.7                                       | 74.8          | 77.0          | 68.2          | 89.6          | 90.7           | 89.7           | 88.2           | 89.9           | 85.7           | 80.4           |           |           |           |           | 122.1     |     |
| FAN TIP SPEED 479. FT/SEC       | 16000 | 65.7                                       | 67.0          | 69.1          | 62.1          | 77.3          | 81.1           | 83.5           | 85.4           | 85.9           | 81.6           | 78.6           |           |           |           |           | 116.4     |     |
|                                 | 20000 | 64.6                                       | 64.5          | 66.3          | 60.7          | 78.1          | 77.4           | 81.1           | 83.5           | 85.8           | 81.7           | 74.5           |           |           |           |           | 119.3     |     |
|                                 | 25000 | 64.9                                       | 64.9          | 64.9          | 61.0          | 71.9          | 74.5           | 77.5           | 80.5           | 82.3           | 78.5           | 71.8           |           |           |           |           | 112.7     |     |
|                                 | 31500 | 64.2                                       | 64.2          | 64.1          | 60.5          | 70.6          | 73.3           | 75.6           | 77.9           | 79.6           | 75.7           | 68.5           |           |           |           |           | 111.3     |     |
|                                 | 40000 | 64.9                                       | 64.5          | 64.4          | 61.4          | 67.6          | 70.6           | 73.4           | 74.7           | 76.9           | 73.9           | 64.1           |           |           |           |           | 110.1     |     |
|                                 | 50000 | 67.6                                       | 68.2          | 67.2          | 63.7          | 66.8          | 68.3           | 70.8           | 70.4           | 72.0           | 70.3           | 63.2           |           |           |           |           | 109.1     |     |
|                                 | 63000 | 69.7                                       | 68.1          | 69.4          | 65.5          | 67.2          | 67.1           | 69.1           | 66.8           | 67.7           | 70.9           | 64.2           |           |           |           |           | 111.1     |     |
|                                 | 80000 | 73.5                                       | 69.5          | 72.0          | 69.2          | 69.4          | 69.9           | 76.4           | 69.2           | 68.1           | 83.3           | 67.1           |           |           |           |           | 121.0     |     |
| OVERALL MEASURED                |       |  |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           |     |
| OVERALL CALCULATED              |       | 62.8                                       | 63.5          | 65.5          | 77.4          | 92.5          | 93.6           | 94.3           | 94.7           | 95.8           | 94.1           | 88.2           |           |           |           |           | 120.1     |     |
| PNDB                            |       | 90.1                                       | 91.0          | 92.1          | 84.6          | 98.1          | 99.8           | 101.4          | 102.2          | 103.4          | 102.9          | 98.4           |           |           |           |           |           |     |

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 OF POOR QUALITY

|                           | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIANS) |              |              |              |              |               |               |               |               |               |               |           |           |           |           |           |           |
|---------------------------|-------|--|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                           |       | 53<br>(0.92)                               | 62<br>(1.08) | 71<br>(1.24) | 81<br>(1.41) | 91<br>(1.58) | 101<br>(1.76) | 111<br>(1.94) | 122<br>(2.13) | 133<br>(2.32) | 145<br>(2.52) | 156<br>(2.73) | 0°<br>(0) | 0°<br>(0) | 0°<br>(0) | 0°<br>(0) | 0°<br>(0) | 0°<br>(0) |
| SIDE LINE 200. FT.        | 50    |  |              |              |              |              |               |               |               |               |               |               |           |           |           |           |           |           |
| ( 80.96 M)                | 80    |  |              |              |              |              |               |               |               |               |               |               |           |           |           |           |           |           |
| VEHICLE R-55              | 100   | 50.4                                       | 53.9         | 58.3         | 46.7         | 61.8         | 59.4          | 56.2          | 50.1          | 45.8          | 46.0          | 46.0          |           |           |           |           |           |           |
| CONFIG 7R                 | 125   | 42.3                                       | 46.1         | 49.0         | 36.4         | 50.0         | 45.3          | 45.8          | 47.0          | 46.2          | 45.9          | 44.9          |           |           |           |           |           |           |
| LOC SCHEMECTADY           | 180   | 41.9                                       | 43.7         | 44.4         | 36.3         | 45.4         | 44.5          | 45.7          | 46.2          | 46.8          | 46.5          | 44.4          |           |           |           |           |           |           |
| DATE 12/2 74              | 200   | 41.6                                       | 42.4         | 44.6         | 36.5         | 46.6         | 47.2          | 46.7          | 48.6          | 48.7          | 49.4          | 45.9          |           |           |           |           |           |           |
| RUN 25/8                  | 250   | 43.2                                       | 45.8         | 47.0         | 38.9         | 48.5         | 49.1          | 49.3          | 49.0          | 48.8          | 48.0          | 44.0          |           |           |           |           |           |           |
| TAPE                      | 315   | 44.6                                       | 47.2         | 47.6         | 35.1         | 46.7         | 48.8          | 49.0          | 48.4          | 48.0          | 46.6          | 43.3          |           |           |           |           |           |           |
| BAR 29-2 HG               | 460   | 43.8                                       | 45.9         | 45.8         | 37.8         | 47.6         | 47.9          | 48.4          | 48.3          | 48.1          | 46.7          | 42.3          |           |           |           |           |           |           |
| (98500- N/M2)             | 590   | 41.4                                       | 44.3         | 44.2         | 38.2         | 46.7         | 47.6          | 49.0          | 49.2          | 48.2          | 47.0          | 42.0          |           |           |           |           |           |           |
| TAMB 46. DEG F            | 630   | 43.1                                       | 44.9         | 46.6         | 39.1         | 49.7         | 51.0          | 52.4          | 52.0          | 50.9          | 48.6          | 42.5          |           |           |           |           |           |           |
| (281. DEG K)              | 860   | 46.4                                       | 48.0         | 49.2         | 42.7         | 51.3         | 52.7          | 53.5          | 53.2          | 51.9          | 49.9          | 43.0          |           |           |           |           |           |           |
| TWET 43. DEG F            | 1600  | 41.3                                       | 42.9         | 44.8         | 36.9         | 49.7         | 52.3          | 54.4          | 55.0          | 54.0          | 52.7          | 42.6          |           |           |           |           |           |           |
| (279. DEG K)              | 1250  | 43.4                                       | 43.2         | 47.0         | 37.3         | 57.1         | 58.4          | 61.5          | 60.6          | 57.6          | 55.7          | 44.0          |           |           |           |           |           |           |
| MACT 6.44 CM/M3           | 1900  | 39.9                                       | 41.1         | 43.3         | 35.4         | 51.4         | 52.8          | 55.3          | 53.9          | 50.1          | 49.4          | 38.6          |           |           |           |           |           |           |
| (.00644 KG/M3)            | 2000  | 40.0                                       | 41.9         | 43.1         | 34.0         | 45.3         | 45.8          | 46.4          | 45.4          | 44.4          | 43.1          | 35.4          |           |           |           |           |           |           |
| NFA 5491. RPM             | 2500  | 37.5                                       | 39.4         | 40.6         | 35.1         | 45.1         | 46.4          | 49.7          | 44.7          | 45.1          | 42.5          | 33.6          |           |           |           |           |           |           |
| ( 575. RAD/SEC)           | 3150  | 35.6                                       | 36.9         | 38.6         | 34.8         | 42.6         | 44.4          | 44.6          | 43.8          | 45.2          | 42.5          | 31.6          |           |           |           |           |           |           |
| NFK 5561. RPM             | 4000  | 35.8                                       | 38.1         | 38.8         | 34.4         | 44.6         | 45.9          | 46.3          | 48.0          | 49.3          | 47.0          | 34.2          |           |           |           |           |           |           |
| ( 582. RAD/SEC)           | 5000  | 35.2                                       | 37.0         | 38.7         | 34.1         | 43.4         | 45.6          | 46.2          | 50.4          | 48.7          | 46.8          | 33.8          |           |           |           |           |           |           |
| NFD 8823. RPM             | 6300  | 36.3                                       | 38.5         | 40.2         | 33.5         | 43.5         | 46.6          | 51.4          | 53.1          | 52.4          | 47.9          | 35.0          |           |           |           |           |           |           |
| ( 924. RAD/SEC)           | 8000  | 36.0                                       | 38.0         | 40.8         | 32.9         | 47.6         | 50.4          | 52.5          | 53.2          | 52.7          | 48.2          | 34.3          |           |           |           |           |           |           |
| NO. OF BLADES 15          | 10000 | 38.4                                       | 41.5         | 44.7         | 36.6         | 55.4         | 57.2          | 57.7          | 56.7          | 55.7          | 48.2          | 35.7          |           |           |           |           |           |           |
| FAN TIP SPEED 479. FT/SEC | 12500 | 38.8                                       | 42.9         | 46.5         | 36.4         | 60.1         | 60.8          | 58.9          | 55.6          | 54.3          | 44.9          | 29.4          |           |           |           |           |           |           |
|                           | 16000 | 27.1                                       | 31.9         | 34.7         | 28.7         | 46.1         | 47.8          | 48.8          | 48.5          | 45.2          | 34.5          | 19.2          |           |           |           |           |           |           |
|                           | 20000 | 20.0                                       | 23.1         | 26.9         | 22.5         | 37.2         | 39.1          | 41.3          | 40.9          | 38.5          | 26.0          | 1.7           |           |           |           |           |           |           |
|                           | 25000 | 11.6                                       | 15.6         | 18.3         | 15.9         | 27.2         | 29.2          | 30.4          | 29.9          | 25.9          | 10.6          |               |           |           |           |           |           |           |
|                           | 31500 |  | 3.6          | 7.0          | 5.3          | 16.0         | 18.0          | 17.8          | 15.4          | 3.0           |               |               |           |           |           |           |           |           |
|                           | 40000 |  |              |              |              |              | 0.2           |               |               |               |               |               |           |           |           |           |           |           |
|                           | 50000 |  |              |              |              |              |               |               |               |               |               |               |           |           |           |           |           |           |
|                           | 63000 |  |              |              |              |              |               |               |               |               |               |               |           |           |           |           |           |           |
|                           | 80000 |  |              |              |              |              |               |               |               |               |               |               |           |           |           |           |           |           |
| OVERALL CALCULATED        |       | 54.1                                       | 58.6         | 61.4         | 62.0         | 66.6         | 66.8          | 67.3          | 66.3          | 64.7          | 62.1          | 59.2          |           |           |           |           |           |           |
| PADB                      |       | 63.8                                       | 68.9         | 67.6         | 60.8         | 73.4         | 74.7          | 76.6          | 76.1          | 78.1          | 72.4          | 62.4          |           |           |           |           |           |           |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

NOISE SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

PRCC. DATE - MONTH 12 DAY 12 HR. 11.0

|                    | NOISE SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY) |        |        |        |        |        |        |        |        |        |        | PNL  |     |     |     |     |       |
|--------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-------|
|                    | ANGLES FROM INLET IN DEGREES (AND RADIANS)                         |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |       |
|                    | 53   | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0    | 0   | 0   | 0   | 0   | 0     |
| FREQ.              | (0.92)   | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0)   |
| RADIAL 17. FT.     | 50   |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |       |
| ( 5. MI)           | 63   |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |       |
| VEHICLE R=55       | 100  | 74.7   | 75.9   | 79.7   | 82.5   | 82.4   | 81.6   | 78.0   | 71.7   | 71.5   | 76.0   | 77.7 |     |     |     |     | 113.3 |
| COEFFIC 8          | 125  | 68.2   | 67.7   | 71.4   | 69.5   | 69.9   | 67.6   | 67.6   | 71.0   | 73.2   | 72.5   | 75.4 |     |     |     |     | 104.9 |
| LCC SCHENECTADY    | 160  | 65.2   | 65.7   | 65.7   | 66.5   | 66.6   | 66.6   | 68.3   | 69.7   | 71.7   | 73.5   | 75.9 |     |     |     |     | 103.7 |
| DATE 12/10/74      | 200  | 64.2   | 64.4   | 65.4   | 66.5   | 68.6   | 69.9   | 70.0   | 71.5   | 73.2   | 75.3   | 76.9 |     |     |     |     | 105.1 |
| RUN 32/1           | 250  | 68.4   | 68.7   | 69.6   | 70.4   | 71.4   | 71.6   | 72.0   | 73.0   | 73.2   | 74.7   | 76.1 |     |     |     |     | 106.2 |
| TAPE               | 315  | 70.0   | 70.2   | 70.4   | 71.0   | 71.4   | 71.9   | 71.5   | 72.2   | 73.7   | 74.0   | 74.9 |     |     |     |     | 106.1 |
| BAR 29.6 HG        | 400  | 67.8   | 68.4   | 68.4   | 69.2   | 69.6   | 69.9   | 70.5   | 71.0   | 72.7   | 73.3   | 74.4 |     |     |     |     | 104.8 |
| (99923. H/M2)      | 500  | 66.3   | 66.7   | 66.6   | 67.2   | 68.9   | 70.4   | 71.5   | 73.2   | 74.2   | 74.5   | 73.9 |     |     |     |     | 105.3 |
| TAMB 40. DEG F     | 630  | 69.1   | 69.2   | 70.2   | 71.5   | 72.9   | 74.7   | 76.0   | 76.5   | 77.0   | 76.0   | 75.4 |     |     |     |     | 106.5 |
| (1276. DEG K)      | 800  | 70.6   | 69.9   | 69.6   | 71.0   | 74.4   | 74.9   | 75.3   | 76.0   | 77.4   | 77.3   | 74.7 |     |     |     |     | 108.6 |
| T-ET 37. DEG F     | 1000   | 66.3   | 66.7   | 67.6   | 69.7   | 71.9   | 73.7   | 75.2   | 77.0   | 78.9   | 78.3   | 73.4 |     |     |     |     | 106.6 |
| (276. DEG K)       | 1250   | 69.3   | 67.7   | 71.9   | 74.8   | 75.7   | 76.0   | 80.0   | 82.0   | 82.2   | 83.3   | 76.2 |     |     |     |     | 112.9 |
| MACT 4.97 CM/M3    | 1600   | 65.6   | 65.0   | 68.1   | 70.3   | 71.5   | 73.7   | 74.7   | 75.7   | 75.7   | 76.6   | 71.4 |     |     |     |     | 107.4 |
| (-00497 CM/M3)     | 2000   | 63.6   | 65.2   | 66.1   | 67.4   | 69.2   | 70.2   | 70.5   | 71.7   | 74.2   | 74.1   | 70.7 |     |     |     |     | 104.6 |
| NFA 5442. RPM      | 2500   | 64.1   | 65.5   | 66.6   | 69.2   | 70.8   | 72.5   | 73.0   | 74.4   | 79.5   | 75.6   | 71.6 |     |     |     |     | 107.4 |
| ( 570. RAD/SEC)    | 3150   | 63.1   | 63.5   | 65.1   | 67.4   | 69.3   | 71.7   | 72.9   | 74.4   | 78.2   | 76.3   | 70.6 |     |     |     |     | 106.8 |
| NFK 5544. RPM      | 4000   | 65.5   | 66.7   | 68.3   | 70.7   | 73.2   | 75.2   | 77.4   | 79.1   | 82.1   | 82.0   | 74.3 |     |     |     |     | 111.2 |
| ( 581. RAD/SEC)    | 5000   | 63.7   | 64.4   | 66.2   | 68.6   | 71.7   | 74.9   | 77.3   | 80.0   | 80.6   | 79.0   | 73.0 |     |     |     |     | 110.2 |
| NPD 8023. RPM      | 6300   | 64.3   | 65.3   | 66.9   | 69.3   | 72.1   | 75.6   | 78.1   | 79.8   | 82.8   | 80.7   | 73.8 |     |     |     |     | 111.4 |
| ( 924. RAD/SEC)    | 8000   | 64.0   | 65.2   | 67.0   | 69.3   | 72.0   | 76.0   | 77.6   | 80.8   | 82.2   | 80.6   | 74.7 |     |     |     |     | 111.9 |
| NO. OF BLADES 15   | 10000  | 62.8   | 64.0   | 65.8   | 69.1   | 71.8   | 75.6   | 78.1   | 80.6   | 83.3   | 79.6   | 72.8 |     |     |     |     | 111.7 |
| FAN TIP SPEED      | 12500  | 63.5   | 64.2   | 65.9   | 69.6   | 72.7   | 75.8   | 78.7   | 80.4   | 83.3   | 79.5   | 73.3 |     |     |     |     | 112.0 |
| ( 475. FT/SEC)     | 16000  | 61.8   | 63.0   | 64.3   | 68.3   | 71.7   | 75.2   | 77.0   | 80.2   | 82.8   | 77.8   | 72.2 |     |     |     |     | 111.6 |
| OVERALL MEASURED   | 20000  | 62.0   | 63.5   | 65.7   | 69.7   | 73.0   | 76.9   | 78.5   | 81.0   | 82.9   | 79.1   | 73.0 |     |     |     |     | 112.9 |
| OVERALL CALCULATED | 25000  | 61.9   | 62.9   | 64.6   | 69.7   | 73.1   | 75.9   | 77.1   | 78.6   | 81.3   | 77.1   | 70.7 |     |     |     |     | 111.6 |
| PNDB               | 31500  | 60.9   | 62.3   | 64.4   | 69.8   | 73.4   | 76.6   | 77.3   | 79.6   | 80.9   | 76.9   | 68.8 |     |     |     |     | 113.0 |
|                    | 40000  | 60.1   | 60.3   | 61.8   | 66.5   | 70.6   | 72.8   | 74.6   | 75.3   | 77.9   | 73.8   | 64.2 |     |     |     |     | 111.0 |
|                    | 50000  | 61.2   | 59.7   | 61.2   | 63.3   | 69.0   | 68.4   | 69.7   | 70.3   | 72.3   | 69.1   | 59.8 |     |     |     |     | 106.3 |
|                    | 63000  | 61.6   | 59.2   | 60.9   | 60.6   | 68.5   | 63.8   | 63.6   | 63.2   | 65.4   | 63.8   | 67.2 |     |     |     |     | 106.7 |
|                    | 80000  | 64.2   | 63.1   | 60.9   | 60.4   | 67.8   | 59.6   | 60.1   | 58.9   | 60.2   | 58.8   | 57.0 |     |     |     |     | 109.3 |
| OVERALL MEASURED   |  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |       |
| OVERALL CALCULATED |  | 81.5   | 81.9   | 84.0   | 86.3   | 87.7   | 89.2   | 90.3   | 92.0   | 94.0   | 92.3   | 88.4 |     |     |     |     | 124.6 |
| PNDB               |  | 91.1   | 91.9   | 93.4   | 95.5   | 97.5   | 99.5   | 101.8  | 102.6  | 105.0  | 104.5  | 99.3 |     |     |     |     |       |

ACORN SYSTEMS CORP. INC. NO. 1028 (11) MADE IN U.S.A. 75

|                    | FREQ. | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0   | 0   | 0   | 0   | 0   |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|
|                    |       | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0) | (0) | (0) | (0) | (0) |
| SIDELINE 200. FT.  | 50    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
|                    | 63    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
|                    | 80    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
| VEHICLE (60.96 M)  | 100   | 51.0   | 53.2   | 57.6   | 60.4   | 60.8   | 59.9   | 55.4   | 48.7   | 47.0   | 49.5   | 47.6   |     |     |     |     |     |
| CGIFIG R=55        | 125   | 44.5   | 44.9   | 49.2   | 47.7   | 48.2   | 45.8   | 45.5   | 47.8   | 48.7   | 45.8   | 45.2   |     |     |     |     |     |
| LCC SCHEMECTADY    | 200   | 40.3   | 41.4   | 43.1   | 44.5   | 46.8   | 47.9   | 47.6   | 48.2   | 48.4   | 48.3   | 46.2   |     |     |     |     |     |
| DATE 12/10/74      | 250   | 44.4   | 45.6   | 47.2   | 48.4   | 49.5   | 49.6   | 49.5   | 49.6   | 48.3   | 47.6   | 45.3   |     |     |     |     |     |
| RUN 32/1           | 315   | 45.8   | 47.0   | 47.9   | 48.9   | 49.4   | 49.8   | 48.9   | 48.7   | 48.7   | 46.8   | 43.8   |     |     |     |     |     |
| TAPE               | 400   | 43.5   | 45.2   | 45.8   | 47.0   | 47.6   | 47.7   | 47.8   | 47.4   | 47.6   | 45.8   | 43.1   |     |     |     |     |     |
| BAR 29.6 HG        | 500   | 41.9   | 43.3   | 44.0   | 45.0   | 46.7   | 46.1   | 48.7   | 49.5   | 49.0   | 46.9   | 42.3   |     |     |     |     |     |
| (99923. N/M2)      | 630   | 44.5   | 45.7   | 47.4   | 49.1   | 50.7   | 52.3   | 53.1   | 52.6   | 51.6   | 49.0   | 43.6   |     |     |     |     |     |
| TAMB 40 DEG F      | 800   | 45.9   | 46.3   | 46.7   | 48.5   | 52.0   | 52.4   | 52.2   | 52.0   | 51.9   | 49.3   | 42.5   |     |     |     |     |     |
| (278. DEG K)       | 1000  | 41.5   | 42.9   | 44.6   | 47.1   | 49.4   | 51.0   | 52.1   | 52.8   | 53.2   | 50.1   | 40.9   |     |     |     |     |     |
| TAET 37. DEG F     | 1250  | 44.3   | 43.8   | 48.7   | 52.1   | 53.1   | 55.2   | 56.7   | 57.7   | 56.3   | 54.9   | 43.3   |     |     |     |     |     |
| (278. DEG K)       | 1600  | 40.4   | 40.8   | 44.8   | 47.4   | 48.7   | 50.8   | 51.2   | 51.2   | 49.6   | 48.1   | 38.1   |     |     |     |     |     |
| HACT 4.97 GM/M3    | 2000  | 38.2   | 40.9   | 42.6   | 44.3   | 46.3   | 47.1   | 46.8   | 47.0   | 47.8   | 45.0   | 36.9   |     |     |     |     |     |
| (100497 KG/M3)     | 2500  | 38.4   | 41.0   | 42.9   | 45.9   | 47.6   | 49.2   | 49.1   | 49.5   | 52.8   | 46.2   | 37.4   |     |     |     |     |     |
| NFA 5442. RPM      | 3150  | 37.1   | 38.7   | 41.1   | 43.9   | 45.9   | 48.1   | 48.7   | 49.2   | 51.2   | 46.5   | 35.7   |     |     |     |     |     |
| (570. RAD/SEC)     | 4000  | 39.0   | 41.4   | 43.8   | 46.7   | 49.4   | 51.2   | 52.7   | 53.3   | 54.6   | 51.4   | 38.3   |     |     |     |     |     |
| NFK 5544. RPM      | 5000  | 36.9   | 38.9   | 41.5   | 44.4   | 47.7   | 50.8   | 52.4   | 54.0   | 52.7   | 48.0   | 36.4   |     |     |     |     |     |
| (581. RAD/SEC)     | 6300  | 34.6   | 38.9   | 41.5   | 44.4   | 47.3   | 50.7   | 52.4   | 53.0   | 53.9   | 48.4   | 35.4   |     |     |     |     |     |
| NFS 8823. RPM      | 8000  | 34.8   | 37.6   | 40.4   | 43.2   | 46.2   | 50.0   | 50.8   | 52.6   | 51.8   | 48.4   | 33.4   |     |     |     |     |     |
| (924. RAD/SEC)     | 10000 | 31.7   | 34.7   | 37.6   | 41.5   | 44.5   | 48.0   | 49.7   | 50.1   | 50.8   | 42.8   | 27.6   |     |     |     |     |     |
| NC OF BLADES 15    | 12500 | 29.6   | 32.4   | 35.4   | 39.9   | 43.2   | 45.9   | 47.9   | 47.8   | 47.7   | 38.7   | 22.4   |     |     |     |     |     |
| FAN TIP SPEED      | 16000 | 23.2   | 26.9   | 29.9   | 34.9   | 38.6   | 41.7   | 42.3   | 43.3   | 42.1   | 30.6   | 11.9   |     |     |     |     |     |
| 475. FT/SEC        | 20000 | 17.4   | 22.1   | 26.3   | 31.5   | 35.1   | 38.5   | 38.7   | 38.4   | 35.6   | 23.3   | 0.2    |     |     |     |     |     |
|                    | 25000 | 8.5    | 13.7   | 18.1   | 24.6   | 28.5   | 30.7   | 30.8   | 27.9   | 24.4   | 9.3    |        |     |     |     |     |     |
|                    | 31500 |        | 1.7    | 7.3    | 14.7   | 18.8   | 21.3   | 19.5   | 17.0   | 10.1   |        |        |     |     |     |     |     |
|                    | 40000 |        |        |        |        | 1.3    | 2.4    | 0.8    |        |        |        |        |     |     |     |     |     |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
| OVERALL CALCULATED |       | 56.5   | 57.9   | 60.9   | 63.4   | 64.3   | 64.9   | 64.7   | 64.9   | 64.8   | 61.9   | 58.7   |     |     |     |     |     |
| PNDR               |       | 64.7   | 66.6   | 69.0   | 71.6   | 73.8   | 75.6   | 76.5   | 77.6   | 77.6   | 74.2   | 64.0   |     |     |     |     |     |

MODEL SOUND PRESSURE LEVELS IN DEG. P. 70 PERCENT REL. HUM. EAV)  
 PROC. DATE - MONTH 12 DAY 12 HR. 11.0  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)  
 PRINTED IN U.S.A.

|                    | ANGLES FROM INLET IN DEGREES (AND RADIANS) |        |        |        |        |        |        |        |        |        |        |       |     |     | PWL |     |       |
|--------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|-----|-------|
| FREQ.              | 53   | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0     | 0   | 0   | 0   | 0   | 0     |
|                    | (0.92)                                     | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)   | (0) | (0) | (0) | (0) | (0)   |
| RADIAN             | 17   | FT.    | 60     |        |        |        |        |        |        |        |        |       |     |     |     |     |       |
| VEHICLE ( S. H )   | 100  | 75.2   | 76.1   | 72.9   | 71.4   | 70.1   | 70.4   | 70.4   | 69.2   | 74.2   | 77.3   | 80.7  |     |     |     |     | 100.3 |
| CONFIG R-55        | 125  | 70.2   | 70.4   | 72.4   | 70.7   | 71.6   | 70.9   | 71.1   | 73.5   | 75.2   | 77.1   | 80.2  |     |     |     |     | 107.8 |
| LCC SCHEDULED      | 200  | 68.0   | 69.1   | 68.9   | 69.7   | 70.1   | 70.2   | 71.9   | 73.2   | 75.7   | 78.1   | 80.7  |     |     |     |     | 107.7 |
| DATE 12/16/74      | 250  | 71.9   | 72.1   | 72.6   | 72.7   | 73.9   | 74.4   | 75.1   | 76.2   | 77.2   | 78.6   | 79.6  |     |     |     |     | 109.5 |
| RUN 32/2           | 315  | 73.0   | 72.2   | 73.4   | 74.2   | 74.6   | 75.2   | 74.6   | 75.7   | 76.4   | 78.3   | 79.6  |     |     |     |     | 109.6 |
| TAPE               | 400  | 71.3   | 71.6   | 71.9   | 72.2   | 72.1   | 73.2   | 73.9   | 75.0   | 76.4   | 78.1   | 78.9  |     |     |     |     | 108.6 |
| BAR 29.6 HG        | 500  | 69.0   | 69.4   | 69.9   | 70.7   | 71.6   | 73.4   | 74.4   | 75.5   | 77.2   | 77.8   | 77.7  |     |     |     |     | 108.3 |
| (99923. H/M2)      | 630  | 71.8   | 71.6   | 72.9   | 73.4   | 75.4   | 77.2   | 78.4   | 79.2   | 80.5   | 79.6   | 77.9  |     |     |     |     | 111.3 |
| TAMU 40. DEG F     | 800  | 72.3   | 73.4   | 74.4   | 73.7   | 76.1   | 77.2   | 78.3   | 78.5   | 79.7   | 80.1   | 77.4  |     |     |     |     | 111.3 |
| (278. DEG K)       | 1000                                       | 69.1   | 69.6   | 70.1   | 72.2   | 74.6   | 76.2   | 77.6   | 79.7   | 81.4   | 80.3   | 78.1  |     |     |     |     | 111.1 |
| TNET 37. DEG F     | 1250                                       | 68.5   | 68.4   | 69.9   | 71.7   | 73.7   | 76.0   | 77.6   | 79.0   | 80.7   | 80.6   | 76.2  |     |     |     |     | 110.7 |
| (278. DEG K)       | 1600                                       | 69.1   | 69.2   | 71.1   | 72.8   | 75.7   | 78.0   | 77.8   | 78.5   | 80.2   | 80.1   | 75.7  |     |     |     |     | 111.0 |
| MACT 4.97 GN/M3    | 2000                                       | 66.9   | 68.4   | 68.6   | 70.3   | 72.2   | 73.2   | 73.8   | 75.2   | 76.7   | 76.4   | 73.4  |     |     |     |     | 107.5 |
| (.60497 KG/M3)     | 2500                                       | 67.1   | 68.2   | 69.1   | 71.6   | 73.5   | 75.0   | 74.8   | 74.4   | 77.2   | 78.4   | 72.6  |     |     |     |     | 107.9 |
| MFA 6213. RPM      | 3150                                       | 67.6   | 67.7   | 68.3   | 70.9   | 73.5   | 76.0   | 77.0   | 78.4   | 83.0   | 80.1   | 74.9  |     |     |     |     | 111.1 |
| ( 651. RAD/SEC)    | 4000                                       | 68.8   | 69.4   | 70.5   | 73.6   | 76.5   | 78.7   | 79.9   | 82.6   | 85.1   | 81.3   | 75.8  |     |     |     |     | 113.7 |
| MFK 330. RPM       | 5000                                       | 67.2   | 68.4   | 70.2   | 72.3   | 75.2   | 78.7   | 82.1   | 84.3   | 84.8   | 81.6   | 76.2  |     |     |     |     | 114.2 |
| ( 663. RAD/SEC)    | 6300                                       | 67.8   | 69.0   | 70.2   | 73.0   | 75.8   | 79.4   | 81.9   | 84.1   | 86.1   | 82.3   | 76.3  |     |     |     |     | 114.8 |
| MFD 8823. RPM      | 8000                                       | 67.0   | 69.1   | 70.0   | 73.5   | 75.5   | 79.6   | 81.4   | 85.3   | 86.5   | 83.9   | 76.9  |     |     |     |     | 115.4 |
| ( 924. RAD/SEC)    | 10000                                      | 66.0   | 68.0   | 69.8   | 73.0   | 75.6   | 79.2   | 82.4   | 84.3   | 86.6   | 82.5   | 75.6  |     |     |     |     | 115.3 |
| NO. OF BLADES 15   | 12500                                      | 67.0   | 68.4   | 69.9   | 73.1   | 76.7   | 79.0   | 82.3   | 84.9   | 87.0   | 82.1   | 76.6  |     |     |     |     | 115.8 |
| FAN TIP SPEED      | 16000                                      | 65.0   | 66.9   | 68.0   | 71.5   | 74.9   | 78.0   | 80.4   | 83.7   | 85.5   | 79.9   | 74.7  |     |     |     |     | 114.6 |
| 542. FT/SEC        | 20000                                      | 65.0   | 68.0   | 69.0   | 72.9   | 76.3   | 79.9   | 82.5   | 84.8   | 87.7   | 81.7   | 76.0  |     |     |     |     | 116.8 |
|                    | 25000                                      | 64.4   | 68.8   | 68.9   | 73.2   | 76.4   | 79.2   | 80.9   | 83.6   | 85.5   | 80.7   | 74.2  |     |     |     |     | 116.0 |
|                    | 31500                                      | 63.7   | 68.7   | 68.9   | 73.5   | 77.2   | 80.1   | 80.9   | 83.6   | 84.6   | 80.0   | 72.3  |     |     |     |     | 116.7 |
|                    | 40000                                      | 62.3   | 67.5   | 67.7   | 70.4   | 73.6   | 76.8   | 78.7   | 80.1   | 82.2   | 77.2   | 67.4  |     |     |     |     | 115.2 |
|                    | 50000                                      | 62.5   | 67.9   | 67.4   | 67.7   | 70.3   | 72.9   | 74.3   | 74.6   | 76.3   | 73.4   | 62.1  |     |     |     |     | 112.4 |
|                    | 63000                                      | 62.9   | 67.6   | 68.1   | 66.1   | 68.0   | 69.2   | 70.2   | 67.2   | 68.9   | 69.1   | 58.5  |     |     |     |     | 110.0 |
|                    | 80000                                      | 63.2   | 68.6   | 70.4   | 67.3   | 67.8   | 68.9   | 68.4   | 61.4   | 63.0   | 67.1   | 58.0  |     |     |     |     | 114.3 |
| OVERALL MEASURED   |  | 83.8   | 84.8   | 85.3   | 86.9   | 89.1   | 91.5   | 93.3   | 95.4   | 97.4   | 94.5   | 91.7  |     |     |     |     | 127.7 |
| OVERALL CALCULATED |  | 84.2   | 84.9   | 85.8   | 87.9   | 100.3  | 102.5  | 104.2  | 106.0  | 108.0  | 105.7  | 101.8 |     |     |     |     |       |

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    |                 | 53     | 64     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0    | 0 | 0 | 0 | 0 |
|--------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|---|---|---|---|
|                    | FREQ.           | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0    | 0 | 0 | 0 | 0 |
|                    | 30              |        |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |
|                    | 63              |        |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |
| SIDELINE           | 200. FT.        |        |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |
|                    | 80              |        |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |
|                    | ( 60.96 M)      | 100    | 51.5   | 53.4   | 50.0   | 49.7   | 48.5   | 48.7   | 48.2   | 46.2   | 40.8   | 50.8   | 50.6 |   |   |   |   |
| VEHICLE            | R-55            | 125    | 46.5   | 47.6   | 50.2   | 48.9   | 50.0   | 49.1   | 48.8   | 50.3   | 50.7   | 50.4   | 49.9 |   |   |   |   |
| CONFIG             | 8               | 160    | 45.1   | 46.2   | 46.9   | 47.8   | 48.4   | 48.3   | 49.5   | 50.0   | 51.1   | 51.3   | 50.2 |   |   |   |   |
| LOC                | SCHENECTADY     | 200    | 44.0   | 44.6   | 46.6   | 47.7   | 49.6   | 51.7   | 51.2   | 52.2   | 52.7   | 52.9   | 50.7 |   |   |   |   |
| DATE               | 12/10/74        | 250    | 47.9   | 49.0   | 50.2   | 50.9   | 52.0   | 52.3   | 52.6   | 52.8   | 52.3   | 51.5   | 48.8 |   |   |   |   |
| RUN                | 32/2            | 315    | 48.8   | 49.7   | 50.9   | 52.1   | 52.7   | 53.0   | 52.0   | 52.2   | 51.5   | 51.1   | 48.5 |   |   |   |   |
| TYPE               |                 | 400    | 47.0   | 48.4   | 49.3   | 50.0   | 50.1   | 50.9   | 51.1   | 51.4   | 51.3   | 50.7   | 47.6 |   |   |   |   |
| BAR                | 29.6 HG         | 500    | 44.6   | 46.0   | 47.2   | 48.4   | 49.5   | 51.1   | 51.5   | 51.8   | 52.0   | 50.3   | 46.1 |   |   |   |   |
|                    | (100023. N/M2)  | 630    | 47.3   | 48.2   | 50.1   | 51.1   | 53.2   | 54.0   | 55.4   | 55.4   | 55.1   | 52.1   | 46.1 |   |   |   |   |
| TAMB               | 40. DEG F       | 800    | 47.8   | 49.8   | 51.5   | 51.2   | 53.8   | 54.7   | 55.3   | 54.5   | 54.2   | 52.1   | 45.3 |   |   |   |   |
|                    | (1278. DEG K)   | 1000   | 44.2   | 45.9   | 47.1   | 49.6   | 52.2   | 53.5   | 54.4   | 55.8   | 55.7   | 52.2   | 43.7 |   |   |   |   |
| THEY               | 37. DEG F       | 1250   | 43.8   | 44.5   | 46.7   | 49.0   | 51.1   | 53.2   | 54.3   | 54.7   | 54.8   | 52.2   | 43.3 |   |   |   |   |
|                    | (1276. DEG K)   | 1600   | 43.0   | 45.1   | 47.8   | 49.9   | 52.9   | 55.0   | 54.3   | 54.0   | 54.1   | 51.4   | 42.4 |   |   |   |   |
| MACI               | 4.97 CM/M3      | 2000   | 41.4   | 44.1   | 45.1   | 47.2   | 49.3   | 50.1   | 50.1   | 50.5   | 50.3   | 47.3   | 39.7 |   |   |   |   |
|                    | (1.00497 KG/M3) | 2500   | 41.4   | 43.7   | 45.4   | 46.3   | 50.4   | 51.7   | 50.9   | 49.5   | 50.6   | 46.0   | 38.4 |   |   |   |   |
| NFA                | 6213. RPM       | 3150   | 41.6   | 42.9   | 44.3   | 47.3   | 50.1   | 52.4   | 52.8   | 53.2   | 56.0   | 50.3   | 40.0 |   |   |   |   |
|                    | ( 651. RAD/SEC) | 4000   | 42.2   | 44.1   | 46.1   | 49.6   | 52.7   | 54.7   | 55.3   | 56.8   | 57.6   | 50.8   | 39.8 |   |   |   |   |
| NFR                | 6330. RPM       | 5000   | 40.4   | 42.8   | 45.5   | 48.1   | 51.2   | 54.4   | 57.3   | 58.2   | 58.9   | 50.5   | 39.6 |   |   |   |   |
|                    | ( 663. RAD/SEC) | 6300   | 40.1   | 42.8   | 44.7   | 48.1   | 51.1   | 54.4   | 56.3   | 57.2   | 57.2   | 50.8   | 37.9 |   |   |   |   |
| NFD                | 8023. RPM       | 8000   | 37.8   | 41.5   | 43.4   | 47.4   | 49.7   | 53.5   | 54.6   | 57.1   | 58.0   | 49.2   | 35.0 |   |   |   |   |
|                    | ( 924. RAD/SEC) | 10000  | 34.9   | 38.6   | 41.6   | 45.5   | 48.2   | 51.5   | 54.0   | 54.3   | 54.0   | 45.8   | 30.4 |   |   |   |   |
| NO. OF BLADES      | 15              | 12500  | 33.1   | 36.6   | 39.3   | 43.3   | 47.2   | 49.2   | 51.5   | 52.3   | 51.4   | 41.3   | 25.8 |   |   |   |   |
| FAH TIP SPEED      |                 | 16000  | 25.5   | 30.9   | 33.6   | 38.1   | 41.8   | 44.5   | 45.7   | 46.8   | 44.9   | 32.6   | 14.4 |   |   |   |   |
|                    | 342. FT/SEC     | 20000  | 20.4   | 26.6   | 29.6   | 34.7   | 38.4   | 41.5   | 42.7   | 42.2   | 40.4   | 29.9   | 3.2  |   |   |   |   |
|                    |                 | 25000  | 11.0   | 19.6   | 22.3   | 28.1   | 31.7   | 33.9   | 33.8   | 32.9   | 28.7   | 12.8   |      |   |   |   |   |
|                    |                 | 31500  |        | 8.1    | 11.8   | 18.6   | 22.8   | 24.8   | 23.1   | 21.0   | 13.9   |        |      |   |   |   |   |
|                    |                 | 40000  |        |        |        | 0.3    | 4.3    | 6.4    | 4.0    |        |        |        |      |   |   |   |   |
|                    |                 | 50000  |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |
|                    |                 | 63000  |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |
|                    |                 | 80000  |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |
| OVERALL CALCULATED |                 |        | 58.7   | 60.2   | 61.2   | 62.5   | 64.4   | 66.1   | 66.9   | 67.6   | 67.5   | 64.8   | 59.4 |   |   |   |   |
|                    | PND8            |        | 67.8   | 69.7   | 71.5   | 74.1   | 76.6   | 78.8   | 79.8   | 80.3   | 80.8   | 79.5   | 68.7 |   |   |   |   |

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|                           | ANGLES FROM INLET IN DEGREES (AND RADIANS) |        |        |        |        |        |        |        |        |        |        | Pnt   |    |    |    |    |       |
|---------------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|----|----|----|----|-------|
|                           | 53   | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    |       |    |    |    |    |       |
| FREQ.                     | (0.92)                                     | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.    | 0. | 0. | 0. | 0. | 0.    |
| RADIAL 17. FT.            | 50   |        |        |        |        |        |        |        |        |        |        |       |    |    |    |    |       |
| ( 5. M)                   | 63   |        |        |        |        |        |        |        |        |        |        |       |    |    |    |    |       |
| VEHICLE R=55              | 80   |        |        |        |        |        |        |        |        |        |        |       |    |    |    |    |       |
| COEFFIC 8                 | 100  | 69.0   | 73.6   | 72.9   | 71.2   | 70.9   | 71.7   | 71.1   | 72.2   | 76.5   | 80.6   | 84.1  |    |    |    |    | 109.8 |
| LCC SCHENECTADY           | 125  | 76.2   | 79.9   | 79.6   | 76.7   | 74.1   | 74.4   | 73.9   | 77.2   | 78.7   | 81.3   | 84.1  |    |    |    |    | 112.9 |
| DATE 12/10/74             | 160  | 72.0   | 73.6   | 72.1   | 72.9   | 72.9   | 73.2   | 75.1   | 76.7   | 79.2   | 81.8   | 83.0  |    |    |    |    | 111.1 |
| RUN 12/3                  | 200  | 71.0   | 71.4   | 71.4   | 72.4   | 74.4   | 77.1   | 76.6   | 78.9   | 80.7   | 83.3   | 85.1  |    |    |    |    | 112.5 |
| TAPE                      | 250  | 74.4   | 75.1   | 75.4   | 76.4   | 77.1   | 77.6   | 78.3   | 79.1   | 81.0   | 82.6   | 83.6  |    |    |    |    | 113.0 |
| BAR 29.6 HG               | 315  | 76.0   | 76.6   | 76.4   | 77.2   | 77.9   | 78.2   | 77.8   | 78.6   | 80.2   | 82.1   | 83.6  |    |    |    |    | 113.0 |
| (99923. N/M2)             | 400  | 74.3   | 74.6   | 74.4   | 75.2   | 75.4   | 76.4   | 76.9   | 77.9   | 79.5   | 81.1   | 82.6  |    |    |    |    | 111.7 |
| TANG 41. DEG F            | 500  | 71.8   | 72.9   | 72.4   | 73.4   | 74.5   | 76.7   | 77.4   | 79.2   | 80.2   | 81.8   | 81.1  |    |    |    |    | 111.6 |
| (278. DEG K)              | 630  | 74.8   | 74.4   | 75.1   | 76.2   | 77.9   | 80.2   | 80.9   | 81.4   | 82.5   | 82.1   | 81.6  |    |    |    |    | 113.0 |
| T-ET 37. DEG F            | 800  | 75.3   | 75.4   | 76.6   | 76.4   | 78.4   | 80.4   | 80.6   | 81.1   | 82.5   | 82.6   | 81.4  |    |    |    |    | 114.0 |
| (276. DEG K)              | 1000                                       | 72.6   | 72.4   | 73.1   | 74.9   | 76.9   | 78.9   | 79.8   | 81.1   | 82.5   | 82.1   | 79.4  |    |    |    |    | 113.6 |
| MACT 4.87 CM/M3           | 1250                                       | 71.6   | 71.4   | 72.9   | 75.0   | 76.7   | 78.5   | 79.6   | 80.9   | 82.2   | 82.4   | 79.4  |    |    |    |    | 112.9 |
| (.00487 KG/M3)            | 1600                                       | 71.3   | 71.4   | 72.9   | 74.8   | 76.5   | 78.5   | 78.6   | 78.9   | 79.5   | 78.4   | 77.1  |    |    |    |    | 111.3 |
| NFA 6990. RPM             | 2000                                       | 70.4   | 71.2   | 72.4   | 73.8   | 75.5   | 77.0   | 77.8   | 78.1   | 79.7   | 78.6   | 76.4  |    |    |    |    | 110.7 |
| (732. RAD/SEC)            | 2500                                       | 70.9   | 71.5   | 72.9   | 75.1   | 77.5   | 78.0   | 77.6   | 77.1   | 79.5   | 77.7   | 75.6  |    |    |    |    | 110.6 |
| (1115. RPM)               | 3150                                       | 70.4   | 70.5   | 72.1   | 74.1   | 76.8   | 79.3   | 80.0   | 80.6   | 84.8   | 80.7   | 76.8  |    |    |    |    | 113.0 |
| (745. RAD/SEC)            | 4000                                       | 71.8   | 72.7   | 74.6   | 77.6   | 80.5   | 82.0   | 83.7   | 85.3   | 88.7   | 83.6   | 78.5  |    |    |    |    | 116.9 |
| NFJ 8923. RPM             | 5030                                       | 72.3   | 72.0   | 75.9   | 78.7   | 81.9   | 84.9   | 85.7   | 85.4   | 82.6   | 78.0   |       |    |    |    |    | 119.1 |
| (924. RAD/SEC)            | 6330                                       | 70.6   | 71.7   | 72.7   | 75.7   | 78.4   | 82.2   | 84.9   | 86.3   | 88.6   | 84.5   | 78.3  |    |    |    |    | 117.3 |
| (1000. RPM)               | 8000                                       | 70.2   | 71.9   | 73.8   | 76.7   | 79.5   | 82.8   | 86.0   | 87.5   | 89.3   | 85.5   | 79.4  |    |    |    |    | 119.3 |
| NO. OF BLADES IS 12500    | 10000                                      | 69.1   | 70.8   | 73.1   | 76.8   | 79.6   | 83.2   | 86.0   | 87.7   | 89.1   | 83.8   | 78.1  |    |    |    |    | 116.3 |
| FAN TIP SPEED 610. FT/SEC | 12500                                      | 69.5   | 71.2   | 73.7   | 76.9   | 80.8   | 83.3   | 85.8   | 87.6   | 89.8   | 84.1   | 78.3  |    |    |    |    | 118.8 |
| 25000                     | 16000                                      | 67.8   | 69.5   | 71.6   | 75.3   | 79.0   | 81.8   | 84.7   | 86.9   | 87.9   | 82.2   | 77.2  |    |    |    |    | 117.7 |
| 31500                     | 20000                                      | 69.1   | 70.6   | 72.6   | 76.7   | 80.6   | 83.2   | 85.6   | 88.2   | 90.8   | 84.7   | 78.0  |    |    |    |    | 120.0 |
| 40000                     | 25000                                      | 67.9   | 70.6   | 72.9   | 76.7   | 80.4   | 83.0   | 85.0   | 87.5   | 89.1   | 83.7   | 77.8  |    |    |    |    | 119.7 |
| 50000                     | 31500                                      | 67.0   | 70.8   | 73.5   | 77.8   | 81.4   | 83.9   | 85.0   | 87.0   | 88.2   | 83.0   | 75.8  |    |    |    |    | 120.3 |
| 63000                     | 40000                                      | 64.8   | 69.0   | 76.6   | 74.6   | 77.6   | 80.8   | 82.7   | 83.7   | 84.9   | 80.2   | 70.4  |    |    |    |    | 118.6 |
| 80000                     | 50000                                      | 63.9   | 68.3   | 68.8   | 70.1   | 73.9   | 76.3   | 78.3   | 78.1   | 79.8   | 76.3   | 65.9  |    |    |    |    | 119.6 |
| OVERALL MEASURED          | 63000                                      | 64.9   | 67.4   | 68.5   | 66.9   | 69.6   | 78.6   | 72.0   | 71.0   | 72.7   | 76.0   | 64.6  |    |    |    |    | 112.6 |
| OVERALL CALCULATED        | 80000                                      | 67.6   | 68.8   | 70.1   | 67.3   | 68.6   | 68.7   | 68.4   | 67.8   | 68.2   | 67.4   | 65.5  |    |    |    |    | 115.2 |
| PNDB                      |  | 97.1   | 98.0   | 99.2   | 101.4  | 103.7  | 105.6  | 107.1  | 108.3  | 110.7  | 107.8  | 104.7 |    |    |    |    | 130.6 |

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 NOISE SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. EAST  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53      | 62      | 71      | 81      | 91      | 101     | 111     | 122    | 133    | 145    | 150    | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|------|------|------|------|------|------|
| FREQ.              | (10.92) | (11.68) | (12.24) | (13.41) | (14.38) | (15.76) | (16.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.   | 110. | 110. | 110. | 110. | 110. |
| SIDELINE 200. FT.  | 50      | 63      | 80      |         |         |         |         |        |        |        |        |      |      |      |      |      |      |
| ( 60.98 MI)        | 120     | 45.3    | 50.9    | 50.8    | 49.5    | 49.3    | 49.9    | 48.9   | 49.1   | 52.0   | 54.0   | 54.0 |      |      |      |      |      |
| VEHICLE R-55       | 125     | 52.5    | 57.1    | 57.5    | 54.9    | 52.5    | 52.6    | 51.6   | 54.0   | 54.2   | 54.7   | 53.9 |      |      |      |      |      |
| CARFIG 8           | 160     | 48.1    | 50.7    | 49.0    | 51.1    | 51.1    | 51.3    | 52.7   | 53.4   | 54.6   | 55.0   | 53.4 |      |      |      |      |      |
| LCC SCHEMECTADY    | 200     | 47.0    | 48.4    | 49.1    | 50.5    | 52.6    | 55.2    | 54.2   | 55.6   | 56.0   | 56.4   | 54.4 |      |      |      |      |      |
| DATE 12/10/74      | 250     | 53.4    | 57.0    | 53.0    | 54.4    | 55.2    | 55.6    | 55.8   | 55.7   | 56.1   | 55.5   | 52.7 |      |      |      |      |      |
| RJM J2/3           | 315     | 51.8    | 53.5    | 53.3    | 55.1    | 55.9    | 56.0    | 55.2   | 55.1   | 55.2   | 54.8   | 52.5 |      |      |      |      |      |
| TAPE               | 400     | 53.0    | 51.4    | 51.6    | 53.0    | 53.3    | 54.2    | 54.1   | 54.3   | 54.4   | 53.7   | 51.3 |      |      |      |      |      |
| BAR 39.6 HG        | 500     | 47.4    | 49.5    | 49.7    | 51.2    | 52.7    | 54.4    | 54.5   | 55.4   | 55.0   | 54.0   | 49.5 |      |      |      |      |      |
| ( 99923. H/M2)     | 630     | 50.0    | 50.9    | 52.4    | 53.5    | 55.7    | 57.8    | 57.9   | 57.5   | 57.1   | 54.3   | 49.8 |      |      |      |      |      |
| TAMB 41. DEG F     | 870     | 53.6    | 51.8    | 53.7    | 54.0    | 56.0    | 57.9    | 57.5   | 57.2   | 56.9   | 54.9   | 49.2 |      |      |      |      |      |
| ( 276. DEG K)      | 1000    | 47.7    | 48.6    | 50.1    | 52.3    | 54.4    | 56.3    | 56.7   | 57.0   | 56.8   | 53.9   | 46.9 |      |      |      |      |      |
| T-ET 37. DEG F     | 1250    | 46.6    | 47.5    | 49.7    | 52.3    | 54.1    | 55.7    | 56.3   | 56.6   | 56.3   | 53.9   | 46.5 |      |      |      |      |      |
| ( 276. DEG K)      | 1500    | 48.1    | 47.3    | 49.5    | 51.9    | 53.7    | 55.5    | 55.1   | 54.4   | 53.4   | 50.7   | 43.8 |      |      |      |      |      |
| MACT 4.87 GM/H3    | 2000    | 44.9    | 46.9    | 48.0    | 50.7    | 52.5    | 53.9    | 54.1   | 53.4   | 53.4   | 49.6   | 42.6 |      |      |      |      |      |
| ( 100487 KG/H3)    | 2500    | 45.2    | 47.0    | 49.2    | 51.8    | 54.4    | 54.7    | 53.7   | 52.2   | 52.9   | 48.3   | 41.4 |      |      |      |      |      |
| NFA 4990. RPM      | 3150    | 44.3    | 45.7    | 48.1    | 50.6    | 53.4    | 55.7    | 55.8   | 55.3   | 57.0   | 50.8   | 41.9 |      |      |      |      |      |
| ( 732. RAD/SEC)    | 4000    | 45.3    | 47.4    | 50.1    | 53.7    | 56.7    | 58.0    | 59.1   | 59.5   | 61.1   | 53.0   | 42.5 |      |      |      |      |      |
| NFK 7115. RPM      | 5000    | 43.4    | 45.1    | 47.3    | 51.8    | 54.7    | 57.7    | 60.0   | 59.7   | 57.7   | 51.6   | 41.3 |      |      |      |      |      |
| ( 745. RAD/SEC)    | 6300    | 42.8    | 45.4    | 47.3    | 50.8    | 53.6    | 57.2    | 59.3   | 59.4   | 58.7   | 52.3   | 39.8 |      |      |      |      |      |
| NFB 8823. RPM      | 8000    | 41.1    | 44.3    | 47.2    | 50.7    | 53.7    | 56.0    | 59.2   | 59.3   | 58.6   | 51.3   | 38.1 |      |      |      |      |      |
| ( 924. RAD/SEC)    | 10000   | 38.0    | 41.4    | 44.9    | 49.3    | 52.3    | 55.6    | 57.6   | 57.8   | 56.6   | 48.9   | 32.9 |      |      |      |      |      |
| NO. OF BLADES 15   | 12500   | 35.6    | 39.4    | 43.1    | 47.1    | 51.3    | 53.5    | 55.0   | 55.0   | 54.2   | 43.3   | 27.3 |      |      |      |      |      |
| FAN TIP SPEED      | 16000   | 29.3    | 33.5    | 37.2    | 41.9    | 45.9    | 48.3    | 50.6   | 50.0   | 47.2   | 34.9   | 16.9 |      |      |      |      |      |
| 610. FT/SEC        | 20000   | 23.5    | 29.1    | 33.4    | 38.5    | 42.7    | 44.0    | 45.8   | 45.7   | 43.5   | 29.0   | 5.2  |      |      |      |      |      |
|                    | 25000   | 14.8    | 21.4    | 26.3    | 31.6    | 35.7    | 37.7    | 37.8   | 36.8   | 32.2   | 15.9   |      |      |      |      |      |      |
|                    | 31500   | 8.9     | 18.2    | 16.3    | 22.7    | 26.9    | 28.5    | 27.1   | 24.5   | 17.4   |        |      |      |      |      |      |      |
|                    | 40000   |         |         |         | 4.5     | 8.3     | 10.4    | 8.9    | 3.6    |        |        |      |      |      |      |      |      |
|                    | 50000   |         |         |         |         |         |         |        |        |        |        |      |      |      |      |      |      |
|                    | 63000   |         |         |         |         |         |         |        |        |        |        |      |      |      |      |      |      |
|                    | 80000   |         |         |         |         |         |         |        |        |        |        |      |      |      |      |      |      |
| OVERALL CALCULATED |         | 61.1    | 63.4    | 64.4    | 65.7    | 67.4    | 69.1    | 69.9   | 69.9   | 69.9   | 68.7   | 63.8 |      |      |      |      |      |
| PHOC               |         | 70.8    | 72.9    | 74.9    | 77.7    | 80.1    | 81.7    | 82.5   | 82.7   | 83.3   | 77.7   | 69.7 |      |      |      |      |      |

NATIONAL BUREAU OF STANDARDS - Gaithersburg, MD 20899  
 PHOTODUPLICATION SERVICE  
 CIRCULAR 574



|                          | ANGLES FROM IMLEY IN DEGREES (AND RADIANS) |       |       |       |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
|--------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|-----|-----|-----|-------|
|                          | 53   | 62    | 71    | 81    | 91    | 101   | 111   | 122   | 133   | 145   | 156   | 0    | 0   | 0   | 0   | 0   | 0   | PH    |
| FREQ.                    | 10.92                                      | 11.30 | 11.24 | 11.41 | 11.58 | 11.76 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 0    | 110 | 110 | 110 | 110 | 110 | 1     |
| RADIA. 17. FT.           | 50   |       |       |       |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
| ( S. N )                 | 63   |       |       |       |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
| VEHICLE R-33             | 80   |       |       |       |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
| CONFIG 8                 | 100  | 69.3  | 71.6  | 72.4  | 72.7  | 73.4  | 74.7  | 73.6  | 74.7  | 75.0  | 83.8  | 87.6 |     |     |     |     |     | 118.6 |
| LCC SCHEMECTADY          | 125  | 70.5  | 76.6  | 76.4  | 75.0  | 77.1  | 77.9  | 78.1  | 79.9  | 81.5  | 84.1  | 87.1 |     |     |     |     |     | 114.2 |
| DATE 12/10/74            | 160  | 75.0  | 75.6  | 75.1  | 75.9  | 76.1  | 76.7  | 78.4  | 79.9  | 82.7  | 85.1  | 87.0 |     |     |     |     |     | 114.6 |
| NUM 32/4                 | 200  | 74.0  | 73.1  | 73.9  | 74.0  | 77.4  | 79.9  | 79.9  | 81.6  | 83.5  | 86.6  | 88.3 |     |     |     |     |     | 115.5 |
| TYPE                     | 250  | 79.3  | 79.4  | 80.9  | 81.4  | 82.4  | 83.9  | 84.6  | 85.6  | 86.2  | 86.3  | 88.0 |     |     |     |     |     | 116.0 |
| BAR 29.6 HG              | 315  | 79.8  | 79.4  | 79.4  | 79.9  | 80.9  | 81.4  | 81.3  | 82.1  | 84.0  | 84.1  | 87.1 |     |     |     |     |     | 116.5 |
| ( 90023. M/M2 )          | 400  | 78.1  | 78.1  | 77.6  | 78.2  | 78.6  | 79.4  | 80.1  | 81.4  | 83.0  | 85.3  | 86.1 |     |     |     |     |     | 115.2 |
| TAMB 40. DEG F           | 500  | 75.6  | 75.4  | 75.6  | 76.7  | 77.9  | 79.4  | 80.9  | 81.9  | 84.0  | 85.1  | 84.9 |     |     |     |     |     | 114.9 |
| ( 1278. DEG K )          | 630  | 77.1  | 76.6  | 77.9  | 79.2  | 80.4  | 82.4  | 83.6  | 84.4  | 85.0  | 85.8  | 84.9 |     |     |     |     |     | 116.0 |
| T-ET 37. DEG F           | 800  | 78.6  | 77.9  | 78.6  | 79.7  | 81.1  | 82.2  | 83.1  | 83.6  | 85.0  | 85.3  | 84.6 |     |     |     |     |     | 116.5 |
| ( 1276. DEG K )          | 1000                                       | 75.0  | 75.6  | 76.4  | 78.4  | 79.6  | 81.7  | 82.1  | 83.9  | 85.2  | 84.6  | 83.3 |     |     |     |     |     | 115.6 |
| MACT 4.07 CM/M3          | 1250                                       | 75.2  | 74.4  | 75.6  | 78.2  | 79.7  | 81.2  | 82.1  | 82.9  | 84.5  | 84.4  | 82.6 |     |     |     |     |     | 115.3 |
| ( 100497 CM/M3 )         | 1600                                       | 74.4  | 73.9  | 75.6  | 77.3  | 79.0  | 80.2  | 80.8  | 80.6  | 81.5  | 82.4  | 80.6 |     |     |     |     |     | 113.7 |
| MFA 7773. RPM            | 2000                                       | 75.2  | 74.9  | 75.6  | 77.0  | 79.7  | 81.0  | 81.3  | 82.6  | 85.2  | 83.4  | 81.1 |     |     |     |     |     | 119.1 |
| ( 014. RAD/SEC )         | 2500                                       | 74.2  | 74.7  | 75.6  | 78.4  | 80.5  | 81.3  | 81.0  | 80.6  | 82.5  | 80.6  | 79.3 |     |     |     |     |     | 114.0 |
| MFB 8823. RPM            | 3150                                       | 73.2  | 73.8  | 74.6  | 77.1  | 79.0  | 81.7  | 81.5  | 82.3  | 84.5  | 81.1  | 78.1 |     |     |     |     |     | 114.6 |
| ( 924. RAD/SEC )         | 4000                                       | 75.4  | 76.4  | 76.5  | 82.1  | 84.5  | 85.2  | 87.2  | 88.7  | 91.7  | 86.6  | 81.8 |     |     |     |     |     | 120.3 |
| NO. OF BLADES 15         | 5000                                       | 73.1  | 73.1  | 75.3  | 78.0  | 81.2  | 84.2  | 87.4  | 87.9  | 88.9  | 84.0  | 79.9 |     |     |     |     |     | 118.0 |
| FM TIP SPEED 670. FT/SEC | 6330                                       | 73.6  | 74.7  | 76.2  | 79.5  | 83.1  | 86.1  | 88.1  | 89.7  | 91.6  | 85.3  | 80.5 |     |     |     |     |     | 120.4 |
|                          | 8030                                       | 73.0  | 74.9  | 77.0  | 79.5  | 82.5  | 86.6  | 87.9  | 90.2  | 93.2  | 87.2  | 81.4 |     |     |     |     |     | 121.4 |
|                          | 10000                                      | 73.1  | 74.2  | 76.0  | 79.8  | 82.0  | 86.7  | 88.7  | 91.8  | 91.1  | 85.7  | 80.6 |     |     |     |     |     | 121.6 |
|                          | 12500                                      | 73.6  | 73.7  | 77.1  | 81.1  | 83.7  | 86.8  | 89.5  | 91.5  | 92.0  | 86.8  | 81.3 |     |     |     |     |     | 122.8 |
|                          | 16000                                      | 71.1  | 72.4  | 75.3  | 78.5  | 82.4  | 84.7  | 87.6  | 90.3  | 90.3  | 84.1  | 79.7 |     |     |     |     |     | 120.6 |
|                          | 20000                                      | 71.6  | 73.2  | 76.7  | 79.9  | 84.9  | 86.6  | 89.0  | 92.2  | 93.0  | 86.9  | 81.2 |     |     |     |     |     | 123.1 |
|                          | 25000                                      | 71.7  | 73.6  | 77.1  | 80.9  | 84.1  | 86.9  | 89.9  | 92.5  | 92.5  | 87.2  | 80.9 |     |     |     |     |     | 123.9 |
|                          | 31500                                      | 71.3  | 73.5  | 77.2  | 81.5  | 84.9  | 87.4  | 89.0  | 90.7  | 91.1  | 85.0  | 78.5 |     |     |     |     |     | 123.0 |
|                          | 40000                                      | 69.4  | 70.7  | 74.7  | 78.2  | 81.9  | 84.3  | 86.2  | 87.5  | 88.5  | 83.2  | 73.8 |     |     |     |     |     | 122.2 |
|                          | 50000                                      | 68.8  | 67.9  | 71.7  | 73.8  | 77.3  | 79.9  | 82.3  | 82.2  | 82.8  | 79.1  | 68.8 |     |     |     |     |     | 119.3 |
|                          | 63000                                      | 69.9  | 66.1  | 69.1  | 68.6  | 71.8  | 73.5  | 75.4  | 74.7  | 78.4  | 72.4  | 65.4 |     |     |     |     |     | 115.5 |
|                          | 80000                                      | 72.7  | 69.1  | 70.4  | 68.3  | 69.6  | 69.2  | 69.4  | 68.8  | 69.7  | 68.6  | 68.7 |     |     |     |     |     | 116.8 |
| OVERALL MEASURED         |  |       |       |       |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
| OVERALL CALCULATED       | 89.7                                       | 89.8  | 91.2  | 93.4  | 95.9  | 99.1  | 100.0 | 101.6 | 102.9 | 99.7  | 96.4  |      |     |     |     |     |     | 133.0 |
| PH80                     | 100.5                                      | 101.0 | 102.5 | 105.1 | 107.2 | 109.7 | 110.2 | 111.8 | 113.7 | 116.6 | 107.6 |      |     |     |     |     |     |       |

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ANGLES FROM INLET IN DEGREES (AND RADIANS)  
 53, 62, 71, 81, 91, 101, 111, 122, 133, 145, 156, 0, 0, 0, 0, 0  
 FREQ. (10.92)(11.08)(11.24)(11.41)(11.59)(11.76)(11.94)(12.13)(12.32)(12.52)(12.73)(0. 110. 110. 110. 110. 110.)

|                    | 53    | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 156  | 0    | 0 | 0 | 0 | 0 |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|
| SIDELINE 200. FT.  | 59    | 63   | 60   |      |      |      |      |      |      |      |      |      |   |   |   |   |
| ( 60.96 M )        | 100   | 45.6 | 46.9 | 50.3 | 51.0 | 51.8 | 52.0 | 51.4 | 51.6 | 54.5 | 57.3 | 57.5 |   |   |   |   |
| VEHICLE R-92       | 125   | 52.8 | 53.8 | 54.2 | 54.1 | 55.5 | 54.1 | 55.0 | 56.8 | 58.9 | 57.4 | 58.9 |   |   |   |   |
| COMFIC 8           | 160   | 51.2 | 52.7 | 52.0 | 54.1 | 54.4 | 54.0 | 56.0 | 56.7 | 58.1 | 58.3 | 57.4 |   |   |   |   |
| LCC SCHEMECTAD     | 200   | 50.1 | 50.1 | 51.0 | 53.0 | 55.0 | 57.9 | 57.4 | 58.3 | 58.7 | 59.1 | 57.7 |   |   |   |   |
| DATE 12/10/74      | 250   | 55.2 | 56.3 | 56.5 | 59.4 | 60.5 | 61.0 | 62.1 | 62.2 | 61.3 | 61.2 | 58.0 |   |   |   |   |
| RUN 32/4           | 315   | 55.6 | 56.2 | 56.9 | 57.8 | 58.7 | 59.3 | 58.7 | 58.6 | 59.0 | 58.8 | 58.8 |   |   |   |   |
| TAPE               | 430   | 53.8 | 54.9 | 55.1 | 58.0 | 56.6 | 57.2 | 57.4 | 57.8 | 57.0 | 57.9 | 54.8 |   |   |   |   |
| BAR 29.6 MG        | 500   | 51.2 | 52.0 | 53.0 | 54.4 | 55.7 | 57.1 | 58.0 | 58.2 | 58.7 | 57.5 | 53.3 |   |   |   |   |
| ( 100073. N/M2 )   | 630   | 52.6 | 53.2 | 55.1 | 56.8 | 58.2 | 60.0 | 60.7 | 60.5 | 59.6 | 59.1 | 53.8 |   |   |   |   |
| TAMB 40. DEC F     | 800   | 53.9 | 54.3 | 55.7 | 57.2 | 59.8 | 59.7 | 60.0 | 59.7 | 59.4 | 57.4 | 52.5 |   |   |   |   |
| ( 270. DEC K )     | 1000  | 51.1 | 51.9 | 53.3 | 55.4 | 57.2 | 59.0 | 58.9 | 59.7 | 59.5 | 58.4 | 50.0 |   |   |   |   |
| TMET 37. DEC F     | 1250  | 50.2 | 50.5 | 52.5 | 55.5 | 57.1 | 58.4 | 58.0 | 58.6 | 58.6 | 59.9 | 49.0 |   |   |   |   |
| ( 276. DEC K )     | 1680  | 49.2 | 49.8 | 52.3 | 54.4 | 56.7 | 57.3 | 57.3 | 56.1 | 55.4 | 53.7 | 47.3 |   |   |   |   |
| MACT 4.97 GP/M3    | 2000  | 49.7 | 50.6 | 52.1 | 54.7 | 55.8 | 57.0 | 57.6 | 57.9 | 58.0 | 54.3 | 47.4 |   |   |   |   |
| ( 1000497 M3/M3 )  | 2500  | 48.5 | 50.2 | 51.0 | 55.1 | 57.4 | 57.9 | 57.2 | 55.7 | 55.9 | 51.3 | 45.1 |   |   |   |   |
| NFA 7773. RPM      | 3150  | 47.1 | 48.1 | 50.6 | 53.6 | 56.4 | 58.2 | 57.3 | 57.1 | 57.5 | 51.3 | 43.2 |   |   |   |   |
| ( 814. RAC/SEC )   | 4000  | 48.8 | 51.1 | 54.1 | 58.1 | 60.7 | 61.2 | 62.4 | 63.0 | 64.1 | 58.0 | 45.5 |   |   |   |   |
| RPM 7719. RPM      | 5000  | 48.2 | 47.8 | 50.8 | 54.4 | 57.2 | 58.9 | 62.5 | 61.9 | 60.8 | 53.8 | 43.3 |   |   |   |   |
| ( 829. RAC/SEC )   | 6300  | 45.7 | 46.3 | 50.7 | 54.8 | 58.3 | 61.2 | 62.5 | 62.8 | 62.7 | 53.8 | 42.1 |   |   |   |   |
| NFD 8823. RPM      | 8000  | 44.6 | 47.3 | 50.4 | 53.4 | 56.7 | 60.5 | 61.1 | 62.1 | 62.0 | 53.0 | 40.1 |   |   |   |   |
| ( 924. RAC/SEC )   | 10000 | 42.0 | 44.9 | 48.6 | 52.2 | 55.5 | 59.0 | 60.3 | 61.0 | 58.6 | 48.8 | 34.0 |   |   |   |   |
| NO. OF BLADES IS   | 12500 | 38.7 | 41.8 | 46.6 | 51.3 | 54.2 | 57.0 | 58.7 | 58.0 | 56.4 | 46.0 | 30.3 |   |   |   |   |
| FAH TIP SPEED      | 18000 | 32.5 | 36.4 | 40.0 | 45.1 | 49.3 | 51.2 | 52.0 | 53.4 | 49.6 | 36.9 | 19.3 |   |   |   |   |
| 679. FT/SEC        | 20000 | 27.0 | 31.0 | 37.3 | 41.7 | 46.1 | 48.3 | 49.2 | 49.6 | 45.6 | 31.2 | 8.4  |   |   |   |   |
| 25000              | 18.4  | 24.4 | 30.6 | 35.8 | 39.5 | 41.7 | 42.8 | 41.8 | 35.7 | 19.3 |      |      |   |   |   |   |
| 31500              | 9.2   | 12.9 | 20.1 | 26.4 | 30.3 | 32.8 | 31.1 | 26.2 | 20.4 | 8.2  |      |      |   |   |   |   |
| 43000              |       |      | 1.0  | 8.0  | 12.6 | 13.0 | 12.4 | 7.3  |      |      |      |      |   |   |   |   |
| 50000              |       |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
| 63000              |       |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
| 80000              |       |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
| OVERALL CALCULATED |       | 64.3 | 65.3 | 66.9 | 68.8 | 70.7 | 72.3 | 72.9 | 73.1 | 73.8 | 76.5 | 80.6 |   |   |   |   |
| PH30               |       | 74.3 | 75.7 | 76.3 | 81.3 | 83.6 | 84.9 | 88.7 | 88.0 | 84.3 | 80.6 | 73.0 |   |   |   |   |

ORIGINAL FILE OF POOR QUALITY

NOISE SOUND PRESSURE LEVELS (50, WPG, F, 70 PERCENT OLL, NUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.                     | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0. | 0. | 0. | 0. | 0. | PdB   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|-------|
|                           | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.   | 0. | 0. | 0. | 0. | 0. |       |
| RADIAL 17. FT.            | 50     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
| ( 5. M)                   | 63     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
| VEHICLE R-55              | 80     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
| CONFIG BR                 | 100    | 75.5   | 75.9   | 80.1   | 82.9   | 83.1   | 82.2   | 78.1   | 72.7   | 70.5   | 76.1   | 77.4 |    |    |    |    |    | 113.8 |
| LCC SCHEMECTADY           | 125    | 69.5   | 66.1   | 69.1   | 67.9   | 71.1   | 68.2   | 67.4   | 69.9   | 71.5   | 74.3   | 74.9 |    |    |    |    |    | 104.6 |
| DATE 12/9/74              | 160    | 66.0   | 66.4   | 66.1   | 66.7   | 67.4   | 66.7   | 67.6   | 69.2   | 71.7   | 74.3   | 75.4 |    |    |    |    |    | 103.8 |
| RUN 31/4                  | 200    | 66.5   | 65.1   | 66.4   | 66.9   | 68.1   | 70.1   | 70.4   | 71.9   | 73.2   | 75.6   | 76.8 |    |    |    |    |    | 105.3 |
| TAPE                      | 250    | 68.8   | 68.9   | 69.9   | 70.1   | 71.1   | 71.4   | 72.3   | 72.1   | 73.5   | 75.1   | 75.6 |    |    |    |    |    | 106.2 |
| BAR 29.5 HG               | 315    | 70.0   | 70.1   | 70.9   | 70.9   | 71.4   | 72.2   | 71.3   | 71.6   | 72.7   | 74.3   | 74.3 |    |    |    |    |    | 106.1 |
| (99457. H/M2)             | 430    | 68.3   | 68.9   | 69.1   | 69.4   | 70.1   | 70.7   | 70.9   | 71.6   | 72.7   | 74.3   | 74.6 |    |    |    |    |    | 105.4 |
| TAMB 47. DEG F            | 500    | 67.3   | 67.6   | 67.6   | 67.9   | 69.1   | 71.2   | 71.9   | 72.9   | 73.7   | 74.6   | 74.1 |    |    |    |    |    | 105.5 |
| (281. DEG K)              | 630    | 69.9   | 70.1   | 70.9   | 71.4   | 73.2   | 74.9   | 76.1   | 76.7   | 77.0   | 76.8   | 74.6 |    |    |    |    |    | 108.7 |
| TMET 43. DEG F            | 800    | 74.1   | 72.4   | 73.9   | 73.2   | 75.1   | 77.4   | 78.3   | 78.4   | 79.2   | 79.3   | 76.9 |    |    |    |    |    | 111.0 |
| (279. DEG K)              | 1000   | 68.9   | 68.6   | 69.6   | 71.4   | 74.6   | 77.7   | 79.8   | 81.1   | 82.7   | 83.3   | 77.6 |    |    |    |    |    | 112.7 |
| NACT 6.13 GM/M3           | 1250   | 72.7   | 68.4   | 73.1   | 76.5   | 83.4   | 85.7   | 88.3   | 88.9   | 87.5   | 86.4   | 78.1 |    |    |    |    |    | 119.1 |
| (1.00613 KG/M3)           | 1600   | 67.9   | 65.7   | 68.6   | 71.5   | 77.5   | 80.2   | 82.3   | 82.4   | 80.2   | 79.9   | 72.9 |    |    |    |    |    | 112.9 |
| NFA 5494. RPM             | 2030   | 64.4   | 64.9   | 66.6   | 67.6   | 69.7   | 71.0   | 71.6   | 72.6   | 74.0   | 74.6   | 70.6 |    |    |    |    |    | 105.1 |
| ( 575. RAD/SEC)           | 2500   | 66.7   | 67.7   | 68.6   | 71.3   | 72.7   | 73.7   | 74.5   | 78.8   | 79.2   | 75.9   | 71.1 |    |    |    |    |    | 106.9 |
| NFK 5559. RPM             | 3150   | 64.4   | 64.2   | 66.1   | 68.6   | 70.3   | 72.7   | 73.5   | 75.8   | 78.5   | 77.4   | 70.3 |    |    |    |    |    | 107.6 |
| ( 582. RAD/SEC)           | 4000   | 66.1   | 66.7   | 67.8   | 71.1   | 74.2   | 76.2   | 77.4   | 79.7   | 82.4   | 81.8   | 74.5 |    |    |    |    |    | 111.6 |
| NFB 8823. RPM             | 5000   | 64.8   | 64.9   | 66.7   | 69.3   | 72.4   | 74.9   | 76.6   | 80.7   | 80.1   | 80.3   | 74.2 |    |    |    |    |    | 110.8 |
| ( 924. RAD/SEC)           | 6300   | 65.3   | 65.9   | 67.1   | 69.9   | 72.5   | 75.8   | 78.6   | 80.5   | 82.6   | 80.2   | 73.7 |    |    |    |    |    | 115.8 |
| NO. OF BLADES 15          | 8000   | 64.7   | 65.6   | 66.9   | 69.9   | 72.5   | 75.8   | 78.1   | 80.9   | 82.7   | 81.4   | 74.6 |    |    |    |    |    | 111.9 |
| FAN TIP SPEED 480. FT/SEC | 10000  | 64.5   | 64.4   | 66.2   | 69.5   | 72.0   | 75.3   | 78.6   | 80.6   | 82.8   | 79.4   | 73.2 |    |    |    |    |    | 111.7 |
| 25000                     | 12500  | 66.0   | 65.3   | 66.5   | 70.2   | 73.2   | 76.0   | 78.5   | 81.2   | 83.5   | 79.8   | 73.9 |    |    |    |    |    | 112.4 |
| 31500                     | 16000  | 63.7   | 63.8   | 64.7   | 67.9   | 71.3   | 74.6   | 77.0   | 80.2   | 82.0   | 77.8   | 72.1 |    |    |    |    |    | 111.3 |
| 40000                     | 20000  | 64.7   | 63.9   | 65.3   | 69.3   | 72.4   | 76.0   | 77.9   | 80.8   | 82.9   | 79.1   | 72.6 |    |    |    |    |    | 112.7 |
| 50000                     | 25000  | 65.3   | 65.0   | 65.5   | 69.3   | 72.2   | 74.8   | 76.8   | 79.1   | 80.2   | 77.1   | 70.6 |    |    |    |    |    | 111.5 |
| 63000                     | 31500  | 65.1   | 64.8   | 65.5   | 69.4   | 72.7   | 76.0   | 77.0   | 79.0   | 79.7   | 76.8   | 69.4 |    |    |    |    |    | 112.4 |
| 80000                     | 40000  | 65.8   | 64.2   | 65.3   | 67.3   | 70.3   | 73.0   | 74.5   | 75.9   | 77.3   | 74.3   | 65.2 |    |    |    |    |    | 111.2 |
| OVERALL MEASURED          | 50000  | 68.4   | 66.8   | 67.2   | 66.5   | 68.6   | 70.1   | 71.1   | 71.5   | 73.1   | 70.9   | 63.7 |    |    |    |    |    | 110.1 |
| OVERALL CALCULATED        | 63000  | 70.8   | 66.7   | 68.9   | 66.8   | 68.3   | 68.4   | 68.6   | 67.3   | 69.2   | 67.5   | 64.5 |    |    |    |    |    | 111.3 |
| PWDB                      | 80000  | 74.2   | 69.5   | 72.0   | 68.9   | 69.3   | 70.4   | 69.8   | 68.9   | 68.6   | 68.5   | 67.0 |    |    |    |    |    | 117.2 |
| OVERALL MEASURED          |        | 83.8   | 82.8   | 83.1   | 87.0   | 89.5   | 91.2   | 92.9   | 94.1   | 94.8   | 93.5   | 88.8 |    |    |    |    |    | 126.5 |
| OVERALL CALCULATED        |        | 92.3   | 92.3   | 93.8   | 96.2   | 99.1   | 101.1  | 103.8  | 104.2  | 105.8  | 105.1  | 99.6 |    |    |    |    |    |       |

C-4

ANGLES FROM TALET IN DEGREE (AND RADIANS)  
 FREQ. 53, 62, 71, 81, 91, 101, 111, 122, 133, 145, 156, 0, 0, 0, 0, 0  
 (0.92), (1.03), (1.24), (1.41), (1.58), (1.76), (1.94), (2.13), (2.32), (2.52), (2.73), 0, 0, 0, 0, 0

|                    | 50    | 63   | 80   | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 | 6300 | 8000 |  |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|--|
| SIDELINE 200. FT.  | 50    | 63   | 80   | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 | 6300 | 8000 |  |
| ( 60.96 M)         | 100   | 51.9 | 53.2 | 58.1 | 61.2 | 61.5 | 60.4 | 55.9 | 49.8 | 46.0 | 49.5 | 47.3 |     |      |      |      |      |      |      |      |      |      |      |  |
| VEHICLE R-55       | 125   | 45.8 | 43.3 | 47.0 | 46.1 | 49.5 | 46.3 | 45.1 | 46.8 | 46.9 | 47.7 | 44.6 |     |      |      |      |      |      |      |      |      |      |      |  |
| CONFIG BR          | 160   | 42.2 | 43.5 | 43.9 | 44.8 | 45.6 | 44.8 | 45.2 | 45.9 | 47.1 | 47.5 | 44.9 |     |      |      |      |      |      |      |      |      |      |      |  |
| LOC SCHENECTADY    | 200   | 42.6 | 42.1 | 44.1 | 45.0 | 46.3 | 48.2 | 47.9 | 48.6 | 48.5 | 48.6 | 46.2 |     |      |      |      |      |      |      |      |      |      |      |  |
| DATE 12/9/74       | 250   | 44.7 | 45.8 | 47.5 | 48.1 | 49.2 | 49.3 | 49.8 | 48.7 | 48.6 | 48.0 | 44.7 |     |      |      |      |      |      |      |      |      |      |      |  |
| RUN 31/4           | 315   | 45.9 | 47.0 | 48.4 | 48.8 | 49.4 | 50.0 | 48.7 | 48.1 | 47.7 | 47.1 | 43.3 |     |      |      |      |      |      |      |      |      |      |      |  |
| TAPE               | 400   | 44.0 | 45.6 | 46.6 | 47.2 | 48.1 | 48.4 | 48.1 | 48.0 | 47.8 | 46.9 | 43.3 |     |      |      |      |      |      |      |      |      |      |      |  |
| BAR 29.5 HG        | 500   | 42.9 | 44.3 | 45.0 | 45.7 | 47.0 | 48.9 | 49.0 | 49.2 | 48.5 | 47.0 | 42.5 |     |      |      |      |      |      |      |      |      |      |      |  |
| (99457. N/M2)      | 630   | 45.3 | 46.7 | 48.1 | 49.1 | 50.9 | 52.5 | 53.2 | 52.8 | 51.6 | 49.1 | 42.6 |     |      |      |      |      |      |      |      |      |      |      |  |
| TAMB 47. DEG F     | 800   | 49.4 | 48.8 | 51.0 | 50.7 | 52.8 | 54.9 | 56.3 | 54.4 | 53.7 | 51.4 | 44.7 |     |      |      |      |      |      |      |      |      |      |      |  |
| (201. DEG R)       | 1000  | 44.1 | 44.9 | 46.6 | 48.8 | 52.2 | 55.0 | 56.7 | 57.0 | 57.0 | 55.2 | 45.1 |     |      |      |      |      |      |      |      |      |      |      |  |
| TMET 43. DEG F     | 1250  | 47.7 | 44.5 | 50.0 | 53.8 | 60.8 | 62.9 | 65.0 | 64.6 | 61.6 | 57.9 | 45.3 |     |      |      |      |      |      |      |      |      |      |      |  |
| (279. DEG R)       | 1600  | 42.7 | 41.6 | 45.3 | 48.6 | 54.7 | 57.3 | 58.8 | 57.9 | 54.1 | 51.2 | 39.8 |     |      |      |      |      |      |      |      |      |      |      |  |
| NACT 8-13 CM/M3    | 2000  | 39.0 | 40.6 | 43.1 | 44.5 | 46.0 | 47.9 | 47.9 | 47.9 | 47.8 | 45.6 | 36.9 |     |      |      |      |      |      |      |      |      |      |      |  |
| (38613 KC/M3)      | 2500  | 41.0 | 43.2 | 44.9 | 48.1 | 49.6 | 50.4 | 50.7 | 53.9 | 52.6 | 46.5 | 36.0 |     |      |      |      |      |      |      |      |      |      |      |  |
| NFA 5494. RPM      | 3150  | 38.4 | 39.4 | 42.1 | 45.1 | 46.8 | 49.1 | 49.3 | 50.6 | 51.5 | 47.5 | 35.4 |     |      |      |      |      |      |      |      |      |      |      |  |
| ( 575. RAD/SEC)    | 4000  | 39.5 | 41.4 | 43.3 | 47.1 | 50.4 | 52.2 | 52.8 | 54.0 | 54.8 | 51.2 | 38.5 |     |      |      |      |      |      |      |      |      |      |      |  |
| NFK 5559. RPM      | 5000  | 37.9 | 39.3 | 42.0 | 46.1 | 48.4 | 50.6 | 53.7 | 54.6 | 52.2 | 49.3 | 37.8 |     |      |      |      |      |      |      |      |      |      |      |  |
| ( 582. RAD/SEC)    | 6300  | 37.8 | 39.5 | 41.7 | 45.0 | 47.8 | 50.8 | 53.6 | 53.8 | 53.7 | 47.9 | 35.3 |     |      |      |      |      |      |      |      |      |      |      |  |
| NFD 8023. RPM      | 8000  | 35.8 | 38.0 | 40.3 | 43.9 | 46.6 | 49.7 | 51.3 | 52.8 | 52.3 | 47.2 | 33.3 |     |      |      |      |      |      |      |      |      |      |      |  |
| ( 924. RAD/SEC)    | 10000 | 33.4 | 35.1 | 38.0 | 41.9 | 44.7 | 47.7 | 50.2 | 50.7 | 50.2 | 42.5 | 29.8 |     |      |      |      |      |      |      |      |      |      |      |  |
| NO. OF BLADES 15   | 12500 | 32.1 | 33.5 | 36.0 | 40.5 | 43.6 | 46.1 | 47.7 | 48.6 | 47.8 | 38.9 | 23.0 |     |      |      |      |      |      |      |      |      |      |      |  |
| FAN TIP SPEED      | 16000 | 25.2 | 27.8 | 30.3 | 34.5 | 38.2 | 41.1 | 42.3 | 43.3 | 41.3 | 30.5 | 11.7 |     |      |      |      |      |      |      |      |      |      |      |  |
| 480. FT/SEC        | 20000 | 20.1 | 22.4 | 26.0 | 31.1 | 34.5 | 37.7 | 38.1 | 38.3 | 35.8 | 23.3 |      |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 25000 | 12.0 | 15.7 | 18.9 | 24.2 | 27.6 | 29.6 | 29.7 | 28.5 | 23.4 | 9.2  |      |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 31500 |      | 4.2  | 8.4  | 14.2 | 18.2 | 20.6 | 19.2 | 16.5 | 9.0  |      |      |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 40000 |      |      |      |      | 1.0  | 2.5  | 8.8  |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |  |
| OVERALL CALCULATED |       | 57.9 | 58.4 | 61.6 | 64.0 | 66.4 | 67.6 | 68.4 | 68.2 | 68.5 | 63.8 | 56.8 |     |      |      |      |      |      |      |      |      |      |      |  |
| PNDB               |       | 66.1 | 67.4 | 69.6 | 72.3 | 75.8 | 77.7 | 79.0 | 79.1 | 78.8 | 74.8 | 64.3 |     |      |      |      |      |      |      |      |      |      |      |  |

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NOISE SOURCE STRAIN, INC. NO. FORM 1418 PRINTED IN U.S.A. 27

| RADIANS                  | FREQ.        |              |              |              |              |               |               |               |               |               |               |      |    | PWL |    |    |       |
|--------------------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|------|----|-----|----|----|-------|
|                          | 53<br>(0.92) | 62<br>(1.08) | 71<br>(1.24) | 81<br>(1.41) | 91<br>(1.58) | 101<br>(1.76) | 111<br>(1.94) | 122<br>(2.13) | 133<br>(2.32) | 145<br>(2.52) | 156<br>(2.73) | 0.   | 0. |     | 0. | 0. | 0.    |
| SC<br>63<br>80           |              |              |              |              |              |               |               |               |               |               |               |      |    |     |    |    |       |
| RADIAL 17. FT.<br>I 5. M | 100          | 72.5         | 75.5         | 73.6         | 70.4         | 69.9          | 70.2          | 71.6          | 70.9          | 73.7          | 76.6          | 80.1 |    |     |    |    | 107.9 |
| VEHICLE R-55             | 125          | 71.3         | 69.1         | 70.9         | 69.7         | 71.6          | 70.9          | 71.1          | 72.9          | 75.0          | 78.8          | 79.1 |    |     |    |    | 107.3 |
| COEFFIC 8R               | 160          | 68.5         | 69.4         | 69.4         | 69.4         | 69.9          | 69.7          | 71.1          | 73.2          | 75.5          | 77.6          | 79.9 |    |     |    |    | 107.4 |
| LCC SCHEMECTADY          | 200          | 68.5         | 67.9         | 68.6         | 69.7         | 70.9          | 73.9          | 73.9          | 75.6          | 77.2          | 78.1          | 80.0 |    |     |    |    | 106.9 |
| BATE 12/9/74             | 250          | 72.3         | 71.9         | 73.4         | 73.1         | 73.9          | 74.4          | 75.3          | 75.6          | 77.0          | 78.6          | 79.6 |    |     |    |    | 109.5 |
| RUN 31/5                 | 315          | 73.5         | 73.4         | 73.6         | 74.4         | 74.9          | 75.7          | 75.1          | 75.6          | 77.0          | 78.3          | 79.3 |    |     |    |    | 109.9 |
| TAPE                     | 400          | 71.3         | 71.4         | 71.6         | 72.4         | 72.9          | 73.7          | 73.9          | 74.9          | 76.5          | 78.1          | 78.6 |    |     |    |    | 108.7 |
| BAR 29.5 HG              | 500          | 69.8         | 70.1         | 69.9         | 70.7         | 71.6          | 74.2          | 74.6          | 75.9          | 77.5          | 78.1          | 77.4 |    |     |    |    | 106.6 |
| (99457. N/M2)            | 630          | 72.1         | 72.1         | 72.9         | 73.9         | 75.4          | 77.4          | 78.6          | 79.2          | 80.0          | 79.8          | 77.9 |    |     |    |    | 111.4 |
| TAND 47. DEG F           | 800          | 75.4         | 73.9         | 74.9         | 74.9         | 76.6          | 78.7          | 79.3          | 79.9          | 80.5          | 80.3          | 78.4 |    |     |    |    | 112.3 |
| (281. DEG K)             | 1000         | 78.6         | 78.6         | 78.9         | 72.7         | 75.4          | 77.9          | 80.1          | 81.6          | 83.2          | 83.3          | 78.1 |    |     |    |    | 115.2 |
| TLEY 43. DEG F           | 1250         | 70.4         | 68.9         | 70.6         | 73.7         | 76.7          | 79.5          | 81.8          | 83.4          | 84.7          | 84.9          | 78.6 |    |     |    |    | 114.6 |
| (279. DEG K)             | 1600         | 70.2         | 69.4         | 73.6         | 78.5         | 82.7          | 88.2          | 87.3          | 85.4          | 82.2          | 85.1          | 77.4 |    |     |    |    | 117.5 |
| NACT 6.13 CM/MS          | 2000         | 67.9         | 67.9         | 68.9         | 70.6         | 72.5          | 74.2          | 74.6          | 75.6          | 77.0          | 77.1          | 73.3 |    |     |    |    | 108.0 |
| (100613 KG/M3)           | 2500         | 68.2         | 68.9         | 69.4         | 72.1         | 74.0          | 75.0          | 75.0          | 76.3          | 77.2          | 75.4          | 72.1 |    |     |    |    | 109.3 |
| NFA 6276. RPM            | 3150         | 67.6         | 67.7         | 69.3         | 71.1         | 73.5          | 76.5          | 77.5          | 79.1          | 82.2          | 81.4          | 74.6 |    |     |    |    | 111.3 |
| ( 657. RAD/SEC)          | 4000         | 68.8         | 69.7         | 70.8         | 73.8         | 76.7          | 78.9          | 80.4          | 82.5          | 85.4          | 81.6          | 78.8 |    |     |    |    | 113.9 |
| NFK 6352. RPM            | 5000         | 67.8         | 68.1         | 70.2         | 73.1         | 75.9          | 78.9          | 82.9          | 84.7          | 85.3          | 82.3          | 76.7 |    |     |    |    | 114.8 |
| ( 665. RAD/SEC)          | 6300         | 67.8         | 68.9         | 70.4         | 72.9         | 76.0          | 80.4          | 83.1          | 84.2          | 86.1          | 82.2          | 76.0 |    |     |    |    | 115.1 |
| NFD 8823. RPM            | 8000         | 68.3         | 68.8         | 70.7         | 73.4         | 76.0          | 80.3          | 81.9          | 84.9          | 86.9          | 83.7          | 77.6 |    |     |    |    | 115.7 |
| ( 924. RAD/SEC)          | 10000        | 67.2         | 67.7         | 69.9         | 73.2         | 75.9          | 79.6          | 82.4          | 84.9          | 86.8          | 82.2          | 75.7 |    |     |    |    | 115.5 |
| NO. OF BLADES 15         | 12500        | 68.0         | 68.3         | 69.8         | 73.5         | 76.9          | 79.7          | 82.7          | 85.8          | 87.2          | 82.0          | 76.7 |    |     |    |    | 116.0 |
| FAN TIP SPEED            | 16000        | 65.2         | 66.0         | 67.7         | 71.4         | 74.3          | 77.9          | 81.0          | 84.0          | 85.7          | 80.1          | 74.6 |    |     |    |    | 114.8 |
| 348. FT/SEC              | 20000        | 65.7         | 66.4         | 68.3         | 72.8         | 75.9          | 79.5          | 81.7          | 85.1          | 86.9          | 81.3          | 75.8 |    |     |    |    | 118.4 |
|                          | 25000        | 66.5         | 68.5         | 68.8         | 72.3         | 76.0          | 78.6          | 81.1          | 83.4          | 84.9          | 80.1          | 73.8 |    |     |    |    | 119.8 |
|                          | 31500        | 65.6         | 66.1         | 69.0         | 72.9         | 76.2          | 79.7          | 81.0          | 83.3          | 84.2          | 79.3          | 72.1 |    |     |    |    | 118.4 |
|                          | 40000        | 65.8         | 65.2         | 67.3         | 70.3         | 73.8          | 76.7          | 79.8          | 80.4          | 82.1          | 77.3          | 67.7 |    |     |    |    | 119.3 |
|                          | 50000        | 68.2         | 66.0         | 68.0         | 67.8         | 70.3          | 73.4          | 75.1          | 74.7          | 76.8          | 73.4          | 69.0 |    |     |    |    | 113.9 |
|                          | 63000        | 70.5         | 67.2         | 68.9         | 67.3         | 68.8          | 69.7          | 70.1          | 69.3          | 71.5          | 68.7          | 64.5 |    |     |    |    | 113.2 |
|                          | 80000        | 74.2         | 69.2         | 72.0         | 68.9         | 69.3          | 70.4          | 69.8          | 68.9          | 68.8          | 68.9          | 67.0 |    |     |    |    | 117.2 |
| OVERALL MEASURED         |              |              |              |              |              |               |               |               |               |               |               |      |    |     |    |    |       |
| OVERALL CALCULATED       | 84.9         | 84.6         | 85.7         | 87.4         | 90.0         | 92.9          | 94.7          | 96.1          | 97.6          | 99.2          | 91.7          |      |    |     |    |    | 120.4 |
| PNDB                     | 94.7         | 95.0         | 96.2         | 98.5         | 101.3        | 104.2         | 105.5         | 106.8         | 106.3         | 106.3         | 102.0         |      |    |     |    |    |       |

|                           | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIANS) |            |            |            |            |             |             |             |             |             |             |    |    |    |    |
|---------------------------|-------|--|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|----|----|----|----|
|                           |       | 53. (0.92)                                 | 61. (1.08) | 71. (1.24) | 81. (1.41) | 91. (1.58) | 101. (1.76) | 111. (1.94) | 122. (2.13) | 133. (2.32) | 145. (2.52) | 156. (2.73) | 0. | 0. | 0. | 0. |
| SIDELINE 200. FT.         | 50    |  |            |            |            |            |             |             |             |             |             |             |    |    |    |    |
| ( 60.96 M)                | 63    |  |            |            |            |            |             |             |             |             |             |             |    |    |    |    |
| VEHICLE R-55              | 80    | 48.9                                       | 52.9       | 51.8       | 48.7       | 48.3       | 48.4        | 49.4        | 47.8        | 49.3        | 50.0        | 50.0        |    |    |    |    |
| CONFIG BR                 | 125   | 47.5                                       | 48.3       | 48.7       | 47.9       | 50.0       | 49.1        | 48.8        | 49.8        | 50.4        | 50.2        | 48.9        |    |    |    |    |
| L3C SCHENECTADY           | 150   | 44.7                                       | 46.5       | 47.2       | 47.6       | 48.1       | 47.8        | 49.7        | 49.9        | 50.8        | 50.8        | 49.4        |    |    |    |    |
| DATE 12/9/74              | 200   | 44.6                                       | 44.9       | 46.3       | 47.7       | 49.1       | 51.9        | 51.4        | 52.3        | 52.5        | 52.1        | 49.9        |    |    |    |    |
| RUN 31/5                  | 250   | 48.2                                       | 48.8       | 51.0       | 51.1       | 52.0       | 52.3        | 52.8        | 52.2        | 52.1        | 51.8        | 48.7        |    |    |    |    |
| TAFE                      | 315   | 49.4                                       | 50.2       | 51.1       | 52.3       | 52.9       | 53.5        | 52.5        | 52.1        | 52.0        | 51.1        | 48.3        |    |    |    |    |
| BAR 29.5 HG               | 400   | 47.0                                       | 48.1       | 49.1       | 50.2       | 50.8       | 51.4        | 51.1        | 51.3        | 51.4        | 50.7        | 47.3        |    |    |    |    |
| (99.457. N/M2)            | 550   | 45.4                                       | 45.8       | 47.2       | 48.4       | 49.5       | 51.9        | 51.8        | 52.2        | 52.2        | 50.5        | 45.8        |    |    |    |    |
| TAMU 47. DEC F            | 630   | 47.6                                       | 48.7       | 50.1       | 51.6       | 53.2       | 55.0        | 55.7        | 55.3        | 54.6        | 52.1        | 46.0        |    |    |    |    |
| (281. DEC K)              | 800   | 50.7                                       | 50.3       | 52.0       | 52.5       | 54.3       | 56.2        | 56.3        | 55.9        | 54.9        | 52.4        | 46.2        |    |    |    |    |
| TWET 43. DEC F            | 1000  | 45.8                                       | 46.0       | 47.8       | 50.1       | 52.9       | 55.3        | 56.9        | 57.5        | 57.5        | 55.2        | 45.6        |    |    |    |    |
| (279. DEC K)              | 1250  | 45.4                                       | 45.9       | 47.5       | 51.0       | 54.1       | 56.7        | 58.5        | 59.1        | 58.8        | 56.4        | 45.0        |    |    |    |    |
| MACT 6.13 CM/M3           | 1600  | 44.9                                       | 45.3       | 50.3       | 55.6       | 59.7       | 63.3        | 63.8        | 60.9        | 58.1        | 56.4        | 44.1        |    |    |    |    |
| (100.13 KG/M3)            | 2000  | 42.5                                       | 43.8       | 45.3       | 47.5       | 49.5       | 51.1        | 50.9        | 50.9        | 50.6        | 48.1        | 39.8        |    |    |    |    |
| NFA 6278. RPM             | 2500  | 42.5                                       | 44.4       | 45.6       | 48.8       | 50.9       | 51.7        | 51.2        | 51.4        | 50.8        | 48.0        | 37.9        |    |    |    |    |
| ( 657. RAD/SEC)           | 3150  | 41.6                                       | 42.9       | 45.3       | 47.6       | 50.1       | 52.9        | 53.3        | 53.8        | 55.2        | 51.5        | 39.6        |    |    |    |    |
| NFK 352. RPM              | 4000  | 42.3                                       | 44.4       | 46.3       | 49.9       | 52.9       | 54.9        | 55.8        | 56.7        | 57.8        | 51.0        | 40.0        |    |    |    |    |
| ( 685. RAD/SEC)           | 5000  | 40.9                                       | 42.5       | 45.5       | 48.8       | 51.9       | 54.6        | 56.0        | 56.6        | 57.4        | 51.3        | 40.8        |    |    |    |    |
| NFD 8823. RPM             | 6300  | 40.1                                       | 42.5       | 44.8       | 48.0       | 51.3       | 55.4        | 57.5        | 57.3        | 57.2        | 49.9        | 37.5        |    |    |    |    |
| ( 924. RAD/SEC)           | 8000  | 38.8                                       | 41.2       | 44.1       | 47.4       | 50.1       | 54.2        | 55.1        | 56.8        | 56.5        | 49.5        | 36.3        |    |    |    |    |
| NO. OF BLADES 15          | 10000 | 36.2                                       | 38.3       | 41.8       | 45.7       | 48.2       | 52.0        | 54.0        | 54.0        | 54.2        | 45.3        | 36.5        |    |    |    |    |
| FAH TIP SPEED 548. FT/SEC | 12500 | 34.1                                       | 36.5       | 39.3       | 43.7       | 47.4       | 49.9        | 51.9        | 52.4        | 51.8        | 41.2        | 28.7        |    |    |    |    |
|                           | 16000 | 26.7                                       | 30.0       | 33.3       | 36.0       | 41.2       | 44.4        | 46.3        | 47.1        | 45.8        | 32.8        | 14.2        |    |    |    |    |
|                           | 20000 | 21.1                                       | 24.2       | 27.0       | 34.6       | 38.0       | 41.2        | 41.9        | 42.5        | 39.5        | 25.0        | 3.1         |    |    |    |    |
|                           | 25000 | 13.2                                       | 17.2       | 22.2       | 27.2       | 31.3       | 33.3        | 34.0        | 32.7        | 28.1        | 12.2        |             |    |    |    |    |
|                           | 31500 |  | 5.5        | 11.9       | 17.7       | 21.7       | 24.3        | 23.2        | 20.8        | 13.5        |             |             |    |    |    |    |
|                           | 40000 |  |            |            | 0.2        | 4.5        | 6.3         | 5.3         | 0.2         |             |             |             |    |    |    |    |
|                           | 50000 |  |            |            |            |            |             |             |             |             |             |             |    |    |    |    |
|                           | 63000 |  |            |            |            |            |             |             |             |             |             |             |    |    |    |    |
|                           | 80000 |  |            |            |            |            |             |             |             |             |             |             |    |    |    |    |
| OVERALL CALCULATED        |       | 59.1                                       | 60.2       | 61.8       | 63.4       | 65.8       | 68.3        | 69.2        | 68.8        | 68.2        | 65.1        | 59.2        |    |    |    |    |
| PNDB                      |       | 68.3                                       | 69.9       | 71.9       | 74.9       | 78.0       | 80.7        | 81.5        | 81.1        | 80.9        | 76.3        | 68.9        |    |    |    |    |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. EAV)

PHCC. DATE - MONTH 12 DAY 12 HR. 11.0

|                           | ANGLES FROM INLET IN DEGREES (AND RADIANS) |        |        |        |        |        |        |        |        |        |        |       |   |   | PHL |   |       |
|---------------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|---|---|-----|---|-------|
|                           | 53   | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0     | 0 | 0 |     | 0 | 0     |
| FREQ.                     | (0.92)                                     | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0     | 0 | 0 | 0   | 0 | 0     |
| RADIA. 17. FT.            | 50   |        |        |        |        |        |        |        |        |        |        |       |   |   |     |   |       |
| ( S. M.)                  | 63   |        |        |        |        |        |        |        |        |        |        |       |   |   |     |   |       |
| VEHICLE R=55              | 80   |        |        |        |        |        |        |        |        |        |        |       |   |   |     |   |       |
| CONFIG. 6H                | 100  | 72.5   | 71.4   | 72.4   | 70.7   | 71.6   | 71.2   | 71.1   | 71.9   | 75.7   | 80.3   | 84.1  |   |   |     |   | 109.7 |
| LCC SCHEMECTADY           | 125  | 76.0   | 79.1   | 78.9   | 76.9   | 76.1   | 74.9   | 74.4   | 76.9   | 78.5   | 80.6   | 83.1  |   |   |     |   | 112.2 |
| DATE 12/9/74              | 160  | 74.0   | 72.8   | 72.1   | 72.9   | 73.4   | 73.7   | 74.9   | 76.2   | 79.0   | 81.6   | 83.9  |   |   |     |   | 111.1 |
| RUN 31/6                  | 250  | 73.0   | 70.9   | 72.1   | 72.4   | 74.4   | 76.4   | 76.9   | 78.4   | 80.5   | 83.1   | 84.8  |   |   |     |   | 112.4 |
| TAPE                      | 250  | 76.0   | 74.9   | 76.4   | 76.1   | 76.9   | 77.9   | 79.1   | 79.4   | 81.2   | 82.1   | 83.8  |   |   |     |   | 113.2 |
| BAR 29.5 HG               | 315  | 77.0   | 76.6   | 76.9   | 77.4   | 78.1   | 78.7   | 78.3   | 78.6   | 80.7   | 82.3   | 83.1  |   |   |     |   | 113.3 |
| (99457. N/M2)             | 400  | 75.6   | 74.4   | 74.4   | 75.7   | 75.6   | 76.7   | 77.1   | 78.1   | 79.7   | 81.6   | 82.8  |   |   |     |   | 112.1 |
| TAMB 48. DEG F            | 500  | 74.3   | 72.9   | 72.6   | 73.7   | 75.4   | 76.7   | 78.4   | 79.2   | 80.5   | 81.6   | 81.6  |   |   |     |   | 112.0 |
| (282. DEG K)              | 630  | 76.1   | 73.9   | 75.4   | 76.4   | 78.7   | 80.4   | 81.1   | 81.7   | 82.5   | 82.6   | 81.1  |   |   |     |   | 114.1 |
| TMET 43. DEG F            | 800  | 77.9   | 76.1   | 76.9   | 76.9   | 79.1   | 80.7   | 81.8   | 82.1   | 83.0   | 82.8   | 80.9  |   |   |     |   | 114.6 |
| (279. DEG K)              | 1000                                       | 74.9   | 72.9   | 73.6   | 75.4   | 77.6   | 80.2   | 81.3   | 83.1   | 84.2   | 83.3   | 80.1  |   |   |     |   | 114.5 |
| NACT 5.84 CM/M3           | 1250                                       | 75.2   | 71.4   | 73.6   | 76.5   | 78.4   | 80.7   | 82.6   | 83.1   | 85.2   | 85.4   | 80.6  |   |   |     |   | 115.4 |
| (1.08584 KG/M3)           | 1600                                       | 74.7   | 71.9   | 73.6   | 75.5   | 77.7   | 80.5   | 82.6   | 82.1   | 81.7   | 82.4   | 79.1  |   |   |     |   | 114.6 |
| NFA 7059. RPM             | 2000                                       | 74.4   | 71.2   | 72.4   | 74.1   | 75.5   | 77.2   | 78.8   | 80.4   | 80.2   | 79.9   | 76.8  |   |   |     |   | 111.6 |
| ( 739. RAD/SEC)           | 2500                                       | 74.4   | 71.2   | 73.1   | 75.1   | 77.2   | 78.3   | 78.8   | 78.3   | 80.0   | 77.9   | 75.8  |   |   |     |   | 111.3 |
| MFK 7135. RPM             | 3150                                       | 73.6   | 70.2   | 71.8   | 74.4   | 76.3   | 79.2   | 80.0   | 81.6   | 84.2   | 81.1   | 76.3  |   |   |     |   | 113.4 |
| ( 747. RAD/SEC)           | 4000                                       | 74.8   | 72.7   | 75.0   | 77.9   | 81.3   | 82.2   | 84.4   | 85.7   | 88.6   | 84.1   | 79.2  |   |   |     |   | 117.3 |
| NFD 8823. RPM             | 5000                                       | 73.8   | 70.6   | 73.5   | 76.3   | 79.2   | 81.6   | 85.4   | 86.7   | 86.9   | 82.8   | 78.4  |   |   |     |   | 116.8 |
| ( 924. RAD/SEC)           | 6300                                       | 75.1   | 71.4   | 73.7   | 75.9   | 79.1   | 82.6   | 85.6   | 87.0   | 89.3   | 84.0   | 78.5  |   |   |     |   | 117.0 |
| NO. OF BLADES IS 12       | 8000                                       | 75.0   | 72.4   | 73.9   | 76.9   | 79.7   | 83.5   | 88.1   | 88.7   | 90.0   | 85.4   | 79.8  |   |   |     |   | 119.0 |
| FAN TIP SPEED 616. FT/SEC | 10000                                      | 75.0   | 70.9   | 73.5   | 77.0   | 79.3   | 83.1   | 85.9   | 88.2   | 90.1   | 84.2   | 78.3  |   |   |     |   | 116.6 |
|                           | 12500                                      | 75.0   | 71.1   | 73.6   | 77.3   | 80.7   | 83.3   | 86.3   | 88.5   | 90.0   | 84.6   | 79.0  |   |   |     |   | 119.3 |
|                           | 16000                                      | 74.8   | 68.9   | 71.3   | 75.2   | 78.2   | 81.4   | 84.6   | 87.5   | 88.0   | 82.6   | 77.7  |   |   |     |   | 118.0 |
|                           | 20000                                      | 74.6   | 69.0   | 72.2   | 76.1   | 80.0   | 82.3   | 85.3   | 88.6   | 90.9   | 83.9   | 78.4  |   |   |     |   | 120.1 |
|                           | 25000                                      | 74.7   | 69.3   | 72.4   | 76.2   | 79.6   | 82.4   | 85.2   | 88.2   | 89.5   | 82.6   | 77.7  |   |   |     |   | 120.8 |
|                           | 31500                                      | 73.7   | 69.0   | 72.9   | 77.5   | 80.4   | 83.3   | 84.9   | 87.2   | 88.3   | 82.4   | 75.2  |   |   |     |   | 120.3 |
|                           | 40000                                      | 72.8   | 67.2   | 70.8   | 74.3   | 77.5   | 80.7   | 82.5   | 84.1   | 85.3   | 80.0   | 78.4  |   |   |     |   | 118.9 |
|                           | 50000                                      | 73.7   | 66.6   | 69.5   | 70.8   | 73.4   | 76.4   | 78.6   | 79.3   | 80.6   | 74.1   | 66.5  |   |   |     |   | 116.5 |
|                           | 63000                                      | 74.5   | 66.9   | 69.2   | 67.8   | 69.8   | 71.7   | 72.8   | 72.3   | 73.7   | 70.5   | 65.3  |   |   |     |   | 114.3 |
|                           | 80000                                      | 74.6   | 69.8   | 71.9   | 69.0   | 69.5   | 70.3   | 69.7   | 68.8   | 69.7   | 68.4   | 66.9  |   |   |     |   | 117.3 |
| OVERALL MEASURED          |  |        |        |        |        |        |        |        |        |        |        |       |   |   |     |   |       |
| OVERALL CALCULATED        |  | 89.7   | 87.4   | 88.6   | 90.3   | 92.8   | 95.0   | 97.1   | 99.0   | 100.6  | 97.1   | 95.0  |   |   |     |   | 131.1 |
| PHN8                      |  | 100.2  | 97.9   | 99.6   | 101.7  | 104.1  | 105.9  | 107.8  | 109.1  | 111.1  | 106.3  | 105.0 |   |   |     |   |       |

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. EAV)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53      | 62      | 71      | 81      | 91      | 101     | 111     | 122     | 133     | 145     | 159     | 0.   | 0.   | 0.  | 0.  | 0.  | 0.   |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|------|-----|-----|-----|------|
| FREQ.              | (10.92) | (11.38) | (11.84) | (12.41) | (13.08) | (13.76) | (14.44) | (15.14) | (15.82) | (16.52) | (17.23) | (0.  | (0.  | (0. | (0. | (0. | (0.) |
| SIDELINE 230. FT.  | 50      | 63      | 80      | 100     | 125     | 150     | 175     | 200     | 225     | 250     | 275     | 300  | 325  | 350 | 375 | 400 | 425  |
| ( 60.96 M)         | 100     | 125     | 150     | 175     | 200     | 225     | 250     | 275     | 300     | 325     | 350     | 375  | 400  | 425 | 450 | 475 | 500  |
| VEHICLE R-55       | 48.9    | 48.7    | 50.3    | 49.0    | 50.0    | 49.4    | 48.0    | 46.8    | 51.3    | 53.8    | 54.0    | 53.9 | 52.9 |     |     |     |      |
| CONFIG BR          | 52.3    | 56.3    | 56.7    | 55.1    | 54.5    | 53.1    | 52.1    | 53.8    | 53.9    | 53.9    | 53.9    | 53.9 | 52.9 |     |     |     |      |
| LCC SCHEMECTADY    | 50.2    | 49.7    | 49.9    | 51.1    | 51.6    | 51.0    | 52.5    | 52.9    | 54.3    | 54.8    | 53.4    | 53.4 | 53.4 |     |     |     |      |
| DATE 12/9/74       | 250     | 49.8    | 47.9    | 49.8    | 50.5    | 52.6    | 54.4    | 54.4    | 55.1    | 55.7    | 56.1    | 54.2 |      |     |     |     |      |
| RUN 31/6           | 250     | 52.0    | 51.8    | 54.0    | 54.1    | 55.0    | 55.8    | 56.6    | 56.0    | 56.3    | 55.0    | 53.0 |      |     |     |     |      |
| TAPE               | 315     | 52.9    | 53.5    | 54.4    | 55.3    | 56.2    | 56.5    | 55.7    | 55.1    | 55.7    | 55.1    | 52.0 |      |     |     |     |      |
| BAR 29.5 HG        | 450     | 51.3    | 51.1    | 51.0    | 53.5    | 53.6    | 54.4    | 54.4    | 54.5    | 54.6    | 54.2    | 51.5 |      |     |     |     |      |
| ( 99457. N/M2)     | 500     | 49.9    | 49.5    | 50.0    | 51.4    | 53.2    | 54.4    | 55.5    | 55.4    | 55.2    | 54.0    | 50.0 |      |     |     |     |      |
| TAMB 40. DEG F     | 630     | 51.6    | 50.4    | 52.0    | 54.1    | 56.4    | 58.0    | 58.2    | 57.8    | 57.1    | 54.8    | 49.3 |      |     |     |     |      |
| ( 282. DEG K)      | 850     | 53.2    | 52.5    | 54.0    | 54.5    | 56.8    | 58.2    | 58.8    | 58.2    | 57.4    | 54.9    | 48.7 |      |     |     |     |      |
| T-ET 43. DEG F     | 1000    | 50.1    | 49.1    | 50.6    | 52.8    | 55.2    | 57.5    | 58.2    | 59.0    | 58.5    | 55.2    | 47.6 |      |     |     |     |      |
| ( 279. DEG K)      | 1200    | 50.2    | 47.5    | 50.5    | 53.8    | 55.8    | 57.9    | 59.3    | 58.8    | 59.3    | 56.9    | 47.6 |      |     |     |     |      |
| HACT 5.64 GM/M3    | 1600    | 49.4    | 47.8    | 50.3    | 52.6    | 54.9    | 57.5    | 59.1    | 57.6    | 55.8    | 53.7    | 45.8 |      |     |     |     |      |
| ( 1.00384 KG/M3)   | 2000    | 49.0    | 46.9    | 48.8    | 51.0    | 52.5    | 54.1    | 55.1    | 55.7    | 53.9    | 50.8    | 42.9 |      |     |     |     |      |
| NFA 7059. RPM      | 2500    | 48.7    | 46.7    | 49.4    | 51.8    | 54.1    | 54.9    | 54.2    | 53.4    | 53.4    | 48.5    | 41.6 |      |     |     |     |      |
| ( 739. RAD/SEC)    | 3150    | 47.6    | 45.4    | 47.8    | 50.8    | 52.9    | 55.6    | 55.8    | 56.3    | 57.2    | 51.3    | 41.4 |      |     |     |     |      |
| NFK 7135. RPM      | 4000    | 46.3    | 47.4    | 50.6    | 53.9    | 57.2    | 58.2    | 59.8    | 60.0    | 61.1    | 53.5    | 43.2 |      |     |     |     |      |
| ( 787. RAD/SEC)    | 5000    | 46.9    | 45.1    | 48.8    | 52.1    | 55.1    | 57.4    | 60.5    | 60.6    | 58.9    | 51.8    | 41.8 |      |     |     |     |      |
| NFD 8823. RPM      | 6300    | 47.3    | 45.1    | 48.2    | 51.0    | 54.3    | 57.6    | 60.8    | 60.1    | 60.4    | 51.7    | 40.1 |      |     |     |     |      |
| ( 924. RAD/SEC)    | 8000    | 45.8    | 44.7    | 47.3    | 50.9    | 53.9    | 57.5    | 59.3    | 60.5    | 59.5    | 51.2    | 38.6 |      |     |     |     |      |
| NO. OF BLADES IS   | 10000   | 44.0    | 41.6    | 45.3    | 49.5    | 52.0    | 55.5    | 57.5    | 58.2    | 57.5    | 47.3    | 33.1 |      |     |     |     |      |
| FAN TIP SPEED      | 12500   | 41.1    | 39.3    | 43.0    | 47.5    | 51.2    | 53.4    | 55.5    | 55.9    | 54.4    | 43.7    | 28.0 |      |     |     |     |      |
| ( 616. FT/SEC)     | 16000   | 36.3    | 32.9    | 36.6    | 41.8    | 45.0    | 47.9    | 49.9    | 50.6    | 47.3    | 39.3    | 17.3 |      |     |     |     |      |
|                    | 20000   | 30.2    | 27.5    | 32.8    | 37.9    | 42.1    | 44.0    | 45.5    | 46.1    | 43.6    | 28.1    | 5.0  |      |     |     |     |      |
|                    | 25000   | 21.3    | 20.1    | 25.8    | 31.1    | 34.9    | 37.2    | 38.0    | 37.5    | 38.7    | 15.1    |      |      |     |     |     |      |
|                    | 31500   | 7.7     | 6.3     | 15.8    | 22.3    | 25.8    | 26.0    | 27.0    | 24.6    | 17.6    |         |      |      |     |     |     |      |
|                    | 40000   |         |         |         | 4.2     | 8.2     | 10.3    | 8.8     | 3.9     |         |         |      |      |     |     |     |      |
|                    | 50000   |         |         |         |         |         |         |         |         |         |         |      |      |     |     |     |      |
|                    | 63000   |         |         |         |         |         |         |         |         |         |         |      |      |     |     |     |      |
|                    | 80000   |         |         |         |         |         |         |         |         |         |         |      |      |     |     |     |      |
| OVERALL CALCULATED | 63.3    | 63.1    | 64.6    | 66.8    | 67.9    | 69.6    | 70.7    | 70.8    | 70.8    | 70.8    | 67.1    | 62.9 |      |     |     |     |      |
| PH20               | 73.9    | 72.8    | 75.4    | 77.9    | 80.5    | 82.1    | 83.3    | 83.5    | 83.7    | 83.7    | 78.2    | 78.1 |      |     |     |     |      |

MODEL SOUND PRESSURE LEVELS 150, DEG. F. 20 PERCENT REL. HUM. DAY  
 PRCC. DATE - MONTH 12 DAY 12 HR. 11.0  
 FULL SCALE DATA REDUCTION PROGRAM  
 PAGE 3



|                           | ANGLES FROM INLET IN DEGREES (AND RADIANS) |        |        |        |        |        |        |        |        |        |        |      |     |     |     | PWL |       |
|---------------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-------|
|                           | 53   | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0    | 0   | 0   | 0   |     | 0     |
| FREQ.                     | (0.92)                                     | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0)   |
| RACIAL 17. FT.            | 50   |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |       |
| ( 5. M)                   | 63   |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |       |
| VEHICLE R=ES              | 80   |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |       |
| CONFIC 84                 | 150  | 73.3   | 71.4   | 72.9   | 72.4   | 72.6   | 73.9   | 73.1   | 74.7   | 79.2   | 84.3   | 86.1 |     |     |     |     | 113.0 |
| LCC SCHENECTADY           | 125  | 78.5   | 77.1   | 75.9   | 75.2   | 76.6   | 77.4   | 78.1   | 79.7   | 81.7   | 84.1   | 87.4 |     |     |     |     | 114.4 |
| DATE 12/9/74              | 160  | 76.5   | 75.4   | 76.1   | 75.9   | 76.4   | 76.4   | 78.4   | 79.9   | 82.5   | 85.3   | 87.6 |     |     |     |     | 114.6 |
| RUN 31/7                  | 250  | 75.3   | 73.1   | 75.6   | 75.4   | 77.4   | 79.6   | 86.1   | 61.9   | 83.7   | 86.3   | 88.8 |     |     |     |     | 115.8 |
| TAPE                      | 250  | 79.8   | 79.6   | 81.4   | 81.9   | 82.9   | 84.1   | 84.3   | 86.1   | 86.2   | 88.3   | 88.8 |     |     |     |     | 118.8 |
| BAR 29.5 HG               | 315  | 79.5   | 79.9   | 80.1   | 80.4   | 80.9   | 81.7   | 81.6   | 82.1   | 83.7   | 85.8   | 87.3 |     |     |     |     | 118.6 |
| (89457. N/M2)             | 400  | 78.3   | 77.9   | 78.1   | 78.4   | 79.1   | 79.9   | 80.1   | 81.6   | 83.2   | 85.1   | 86.8 |     |     |     |     | 115.5 |
| TAMB 48. DEG F            | 500  | 75.8   | 75.4   | 76.4   | 76.9   | 77.9   | 80.2   | 81.4   | 82.7   | 84.0   | 84.8   | 85.4 |     |     |     |     | 115.3 |
| (242. DEG K)              | 630  | 77.1   | 77.1   | 78.1   | 79.2   | 80.7   | 82.2   | 83.9   | 84.2   | 85.2   | 85.8   | 86.9 |     |     |     |     | 118.7 |
| T-ET 43. DEG F            | 800  | 79.6   | 78.4   | 78.4   | 79.7   | 80.9   | 82.7   | 83.8   | 84.1   | 85.2   | 85.1   | 85.1 |     |     |     |     | 116.9 |
| (279. DEG K)              | 1000                                       | 76.4   | 75.6   | 76.1   | 76.2   | 80.4   | 82.2   | 83.6   | 84.6   | 86.0   | 85.1   | 83.6 |     |     |     |     | 116.5 |
| MACT 5.84 CM/M3           | 1250                                       | 75.2   | 74.4   | 75.9   | 76.5   | 80.7   | 82.7   | 83.6   | 84.1   | 85.5   | 85.4   | 83.1 |     |     |     |     | 118.4 |
| (100584 KG/M3)            | 1600                                       | 74.7   | 74.2   | 76.1   | 77.8   | 79.7   | 82.2   | 82.6   | 81.9   | 83.5   | 84.4   | 81.6 |     |     |     |     | 115.2 |
| MFA 7843. RPM             | 2000                                       | 75.9   | 77.9   | 79.9   | 83.3   | 85.5   | 83.7   | 86.8   | 89.9   | 88.7   | 88.4   | 83.1 |     |     |     |     | 120.1 |
| ( 821. RAD/SEC)           | 2500                                       | 73.9   | 74.5   | 76.1   | 76.6   | 80.5   | 81.0   | 80.8   | 81.6   | 83.0   | 81.4   | 79.8 |     |     |     |     | 114.3 |
| MFK 7928. RPM             | 3150                                       | 73.4   | 73.2   | 74.8   | 76.9   | 79.3   | 81.5   | 81.3   | 82.6   | 84.5   | 81.1   | 78.3 |     |     |     |     | 114.6 |
| ( 838. RAD/SEC)           | 4000                                       | 76.8   | 76.7   | 79.3   | 83.9   | 85.0   | 85.7   | 88.2   | 90.0   | 92.4   | 87.3   | 82.7 |     |     |     |     | 121.2 |
| MFD 8823. RPM             | 5000                                       | 73.3   | 73.6   | 76.2   | 78.8   | 81.7   | 84.4   | 88.1   | 87.9   | 89.1   | 89.3   | 81.2 |     |     |     |     | 119.1 |
| ( 924. RAD/SEC)           | 6300                                       | 74.1   | 74.7   | 76.4   | 79.7   | 83.3   | 86.6   | 89.9   | 91.0   | 91.1   | 85.7   | 81.0 |     |     |     |     | 121.1 |
| NG OF BLADES 15           | 8000                                       | 74.0   | 75.1   | 76.9   | 79.9   | 82.5   | 86.3   | 88.9   | 91.2   | 93.2   | 87.9   | 82.1 |     |     |     |     | 121.8 |
| FAN TIP SPEED 645. FT/SEC | 10000                                      | 73.5   | 73.9   | 76.7   | 80.5   | 83.5   | 86.6   | 88.9   | 91.2   | 92.1   | 86.4   | 81.3 |     |     |     |     | 121.5 |
|                           | 12500                                      | 74.0   | 74.6   | 77.1   | 81.8   | 84.5   | 87.0   | 90.0   | 92.0   | 93.2   | 87.6   | 82.2 |     |     |     |     | 122.7 |
|                           | 16000                                      | 72.3   | 72.6   | 75.0   | 78.2   | 81.9   | 85.4   | 87.8   | 90.8   | 96.8   | 85.4   | 80.7 |     |     |     |     | 121.1 |
|                           | 20000                                      | 73.3   | 74.0   | 75.9   | 79.9   | 83.0   | 86.6   | 88.8   | 92.1   | 93.2   | 86.6   | 81.6 |     |     |     |     | 123.1 |
|                           | 25000                                      | 73.2   | 73.6   | 76.4   | 80.2   | 83.6   | 86.4   | 89.2   | 91.9   | 93.0   | 87.2   | 81.9 |     |     |     |     | 123.7 |
|                           | 31500                                      | 72.2   | 73.0   | 77.1   | 81.2   | 84.1   | 86.6   | 88.9   | 90.7   | 91.6   | 85.9   | 79.5 |     |     |     |     | 123.8 |
|                           | 40000                                      | 71.0   | 70.7   | 74.8   | 78.5   | 81.5   | 84.7   | 86.3   | 88.1   | 89.3   | 84.8   | 74.7 |     |     |     |     | 122.6 |
|                           | 50000                                      | 71.2   | 69.3   | 72.0   | 74.1   | 77.4   | 80.2   | 82.6   | 82.8   | 83.9   | 79.6   | 69.6 |     |     |     |     | 119.9 |
|                           | 63000                                      | 72.3   | 67.2   | 70.2   | 69.3   | 72.3   | 73.9   | 76.1   | 75.5   | 77.0   | 73.5   | 66.5 |     |     |     |     | 116.5 |
|                           | 80000                                      | 74.6   | 70.6   | 71.9   | 69.3   | 70.5   | 70.5   | 71.2   | 76.1   | 71.2   | 69.6   | 66.9 |     |     |     |     | 118.0 |
| OVERALL MEASURED          |  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |       |
| OVERALL CALCULATED        | 90.5                                       | 98.1   | 91.7   | 94.0   | 96.2   | 98.3   | 100.5  | 102.4  | 103.4  | 100.2  | 98.9   |      |     |     |     |     | 124.3 |
| PNCB                      | 101.4                                      | 101.3  | 103.2  | 106.2  | 107.6  | 109.2  | 111.1  | 112.6  | 114.3  | 111.4  | 108.6  |      |     |     |     |     |       |

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY  
 PRCC. DATE - MONTH 12 DAY 12 YR. 11.7  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)  
 PNCB

|                    | 53     | 64     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 159    | 0    | 0 | 0 | 0 | 0 | 0 |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|---|---|---|---|---|
| PRC                | (0.92) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0    | 0 | 0 | 0 | 0 | 0 |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
| VEHICLE            | 100    | 49.6   | 48.7   | 50.0   | 50.7   | 51.0   | 52.2   | 50.9   | 51.6   | 54.0   | 57.0   | 58.0 |   |   |   |   |   |
| CG FIG             | 125    | 54.0   | 54.3   | 53.7   | 53.4   | 55.0   | 55.0   | 55.0   | 56.5   | 57.2   | 57.4   | 57.1 |   |   |   |   |   |
| LCC SCHE, ECYADY   | 160    | 52.7   | 52.5   | 53.0   | 54.1   | 54.6   | 54.5   | 56.0   | 56.7   | 57.0   | 58.3   | 57.1 |   |   |   |   |   |
| DATE 12/9/74       | 200    | 51.3   | 50.1   | 53.3   | 53.5   | 55.0   | 57.7   | 57.7   | 58.0   | 59.0   | 59.4   | 58.2 |   |   |   |   |   |
| RUN 31/7           | 250    | 55.7   | 56.5   | 59.0   | 59.9   | 61.0   | 62.1   | 61.8   | 62.7   | 61.3   | 61.2   | 58.0 |   |   |   |   |   |
| TARE               | 315    | 55.4   | 56.7   | 57.6   | 58.3   | 58.9   | 59.5   | 59.0   | 58.6   | 58.7   | 58.6   | 56.3 |   |   |   |   |   |
| BAR 29.5 HG        | 400    | 54.0   | 54.5   | 55.0   | 56.2   | 57.1   | 57.7   | 57.4   | 58.0   | 58.1   | 57.7   | 55.5 |   |   |   |   |   |
| 199457. 4/M21      | 500    | 51.4   | 52.2   | 53.7   | 54.7   | 55.7   | 57.0   | 58.5   | 58.0   | 58.7   | 57.3   | 53.0 |   |   |   |   |   |
| TARE 40 DEC F      | 630    | 52.4   | 53.7   | 55.4   | 56.8   | 58.4   | 59.8   | 60.9   | 60.3   | 59.9   | 57.8   | 53.0 |   |   |   |   |   |
| 1292. DEC W1       | 800    | 54.9   | 54.8   | 55.5   | 57.2   | 58.5   | 60.2   | 60.8   | 60.2   | 59.7   | 57.1   | 53.0 |   |   |   |   |   |
| TNET 43 DEC F      | 1000   | 51.6   | 51.9   | 53.1   | 55.5   | 57.9   | 59.3   | 60.4   | 60.5   | 60.3   | 58.0   | 51.1 |   |   |   |   |   |
| 1279. DEC W1       | 1250   | 52.2   | 50.5   | 52.7   | 55.0   | 59.1   | 59.9   | 60.3   | 59.0   | 59.6   | 58.9   | 50.3 |   |   |   |   |   |
| MACT 5.04 CM/M3    | 1600   | 49.4   | 50.1   | 52.8   | 54.0   | 56.9   | 59.3   | 59.1   | 57.4   | 57.4   | 55.7   | 48.3 |   |   |   |   |   |
| 1-60504 (CM/M3)    | 2000   | 50.5   | 53.6   | 56.3   | 60.7   | 62.5   | 60.6   | 63.1   | 65.2   | 62.4   | 59.3   | 49.4 |   |   |   |   |   |
| MFA 7843 RPM       | 2500   | 48.2   | 49.9   | 52.4   | 55.3   | 57.4   | 57.7   | 56.9   | 56.7   | 56.4   | 52.0   | 45.0 |   |   |   |   |   |
| 1 821. RAD/SEC     | 3150   | 47.4   | 48.4   | 50.8   | 53.3   | 55.9   | 57.9   | 57.1   | 57.3   | 57.5   | 51.3   | 43.0 |   |   |   |   |   |
| MFR 7920 RPM       | 4000   | 53.3   | 51.4   | 54.0   | 59.9   | 61.2   | 61.7   | 63.6   | 64.2   | 64.0   | 56.7   | 46.7 |   |   |   |   |   |
| 1 836. RAD/SEC     | 5000   | 46.4   | 48.1   | 51.5   | 54.6   | 57.6   | 60.1   | 63.2   | 61.9   | 61.2   | 54.3   | 44.0 |   |   |   |   |   |
| MFB 8023 RPM       | 6300   | 46.3   | 48.3   | 51.0   | 54.8   | 58.0   | 61.6   | 64.2   | 64.1   | 62.2   | 53.5   | 42.0 |   |   |   |   |   |
| 1 924. RAD/SEC     | 8000   | 44.0   | 47.5   | 50.3   | 53.9   | 56.7   | 60.2   | 62.1   | 63.0   | 62.0   | 53.7   | 40.0 |   |   |   |   |   |
| NO. OF BLADES 15   | 10000  | 42.5   | 44.6   | 48.5   | 53.0   | 55.2   | 59.0   | 60.5   | 61.2   | 59.5   | 49.5   | 38.1 |   |   |   |   |   |
| TAN TIP SPEED      | 12500  | 40.1   | 42.8   | 46.3   | 51.3   | 54.0   | 57.2   | 59.2   | 59.4   | 57.6   | 46.7   | 31.3 |   |   |   |   |   |
| 685. FT/SEC        | 16000  | 33.0   | 36.0   | 40.6   | 44.8   | 48.0   | 51.9   | 53.1   | 53.9   | 50.1   | 38.1   | 28.3 |   |   |   |   |   |
|                    | 20000  | 29.7   | 32.5   | 36.5   | 41.6   | 45.1   | 48.2   | 49.0   | 49.6   | 45.9   | 38.9   | 0.9  |   |   |   |   |   |
|                    | 25000  | 19.0   | 24.3   | 29.8   | 35.1   | 38.9   | 41.2   | 42.0   | 41.3   | 38.2   | 19.3   |      |   |   |   |   |   |
|                    | 31500  | 6.2    | 12.3   | 20.0   | 28.1   | 29.5   | 31.2   | 31.0   | 28.1   | 20.0   | 0.3    |      |   |   |   |   |   |
|                    | 40000  |        |        | 2.0    | 8.4    | 12.2   | 14.3   | 12.5   | 7.9    |        |        |      |   |   |   |   |   |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
| OVERALL CALCULATED | 65.0   | 65.8   | 67.5   | 69.6   | 71.4   | 72.7   | 73.9   | 74.2   | 73.5   | 70.4   | 68.9   |      |   |   |   |   |   |
| PNDB               | 75.2   | 76.3   | 79.0   | 82.5   | 84.2   | 85.3   | 86.7   | 87.0   | 86.9   | 81.3   | 73.9   |      |   |   |   |   |   |

12/11/74 11:00 AM 12/11/74 11:00 AM 12/11/74 11:00 AM 12/11/74 11:00 AM 12/11/74 11:00 AM





MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. 8AV)

ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                     | 53     | 64     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   | POL |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|-----|
| FREQ.               | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | (10. | (10. | (10. | (10. | (10. | (10. | 1   |
| 50                  |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |     |
| 63                  |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |     |
| 80                  |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |     |
| RADIAL 17. FT.      |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |     |
| (S. N)              |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |     |
| VEHICLE R55         | 130    | 76.8   | 75.1   | 80.4   | 82.9   | 83.1   | 82.2   | 78.4   | 72.9   | 71.0   | 75.3   | 77.1 |      |      |      |      |      |      |     |
| COMPIC 6A           | 160    | 74.3   | 66.6   | 69.9   | 67.7   | 69.6   | 66.4   | 66.1   | 70.4   | 72.0   | 72.6   | 74.9 |      |      |      |      |      |      |     |
| LOC SCHEMECTAB      | 230    | 73.3   | 64.6   | 66.1   | 67.2   | 68.4   | 69.6   | 78.1   | 72.1   | 73.7   | 75.6   | 76.0 |      |      |      |      |      |      |     |
| DATE 12/9/74        | 250    | 73.0   | 68.6   | 69.4   | 79.1   | 78.9   | 71.9   | 72.3   | 72.6   | 73.2   | 74.6   | 75.6 |      |      |      |      |      |      |     |
| RWH 31/9            | 315    | 73.8   | 78.4   | 78.4   | 78.9   | 71.9   | 71.7   | 71.3   | 71.6   | 73.0   | 74.3   | 76.0 |      |      |      |      |      |      |     |
| TAPE                | 450    | 73.8   | 68.6   | 68.6   | 69.4   | 76.1   | 76.7   | 71.1   | 71.4   | 73.2   | 74.3   | 74.6 |      |      |      |      |      |      |     |
| BAR 20.5 MC         | 530    | 72.3   | 67.4   | 67.4   | 69.2   | 69.1   | 71.4   | 71.4   | 73.4   | 74.6   | 74.6   | 73.9 |      |      |      |      |      |      |     |
| 100457. N/M21       | 630    | 73.1   | 69.6   | 78.9   | 71.4   | 73.2   | 74.9   | 76.1   | 76.7   | 77.2   | 77.1   | 74.6 |      |      |      |      |      |      |     |
| TAMD 47. DEG F      | 630    | 76.6   | 72.6   | 73.9   | 73.2   | 75.4   | 76.9   | 77.6   | 78.1   | 79.0   | 79.3   | 78.0 |      |      |      |      |      |      |     |
| (241. DEG K)        | 1000   | 72.6   | 68.6   | 69.1   | 79.9   | 74.4   | 77.7   | 79.6   | 81.1   | 82.7   | 83.3   | 77.1 |      |      |      |      |      |      |     |
| T-ET 43. DEG F      | 1250   | 73.9   | 68.4   | 71.4   | 76.7   | 83.7   | 85.7   | 88.1   | 88.6   | 87.2   | 87.1   | 78.0 |      |      |      |      |      |      |     |
| (270. DEG K)        | 1630   | 79.9   | 65.9   | 69.6   | 71.8   | 78.2   | 80.5   | 82.3   | 81.9   | 88.7   | 79.8   | 73.0 |      |      |      |      |      |      |     |
| MACT 6.13 CM/M3     | 2000   | 76.4   | 65.2   | 66.1   | 67.8   | 69.7   | 71.8   | 71.6   | 72.9   | 73.7   | 74.6   | 78.3 |      |      |      |      |      |      |     |
| (100613 KG/M3)      | 2500   | 78.4   | 67.7   | 69.1   | 71.1   | 72.2   | 74.8   | 74.3   | 79.1   | 79.2   | 75.9   | 78.0 |      |      |      |      |      |      |     |
| MFA 5499. RPM       | 3150   | 69.1   | 64.4   | 66.1   | 67.9   | 78.3   | 72.7   | 73.3   | 75.6   | 78.7   | 77.4   | 78.6 |      |      |      |      |      |      |     |
| (576. RAC/SEC)      | 4000   | 78.1   | 67.2   | 68.8   | 76.3   | 74.8   | 76.7   | 77.7   | 79.7   | 82.1   | 82.3   | 74.2 |      |      |      |      |      |      |     |
| MFK 5564. RPM       | 5950   | 89.8   | 64.9   | 68.7   | 69.1   | 71.7   | 75.1   | 78.1   | 80.2   | 80.6   | 79.8   | 73.4 |      |      |      |      |      |      |     |
| (583. RAC/SEC)      | 6330   | 78.4   | 65.9   | 67.4   | 69.7   | 72.8   | 75.9   | 78.8   | 80.2   | 82.6   | 86.7   | 73.5 |      |      |      |      |      |      |     |
| MFD 8023. RPM       | 8030   | 78.2   | 65.8   | 66.9   | 69.9   | 72.5   | 75.8   | 78.1   | 80.9   | 82.7   | 81.9   | 74.6 |      |      |      |      |      |      |     |
| (924. RAC/SEC)      | 10000  | 78.8   | 64.7   | 66.4   | 69.5   | 72.3   | 75.8   | 78.1   | 79.9   | 82.8   | 79.9   | 73.2 |      |      |      |      |      |      |     |
| NO. OF BLADES 12    | 12500  | 79.5   | 65.3   | 66.8   | 69.5   | 73.2   | 76.8   | 78.7   | 80.5   | 83.5   | 79.8   | 73.4 |      |      |      |      |      |      |     |
| FAN TIP SPEED 16000 | 16000  | 69.7   | 63.5   | 64.7   | 68.1   | 71.8   | 74.4   | 76.5   | 80.8   | 82.5   | 77.8   | 72.1 |      |      |      |      |      |      |     |
| 480. FT/SEC         | 20000  | 69.7   | 64.9   | 65.6   | 69.3   | 72.7   | 76.9   | 78.2   | 80.6   | 82.9   | 79.3   | 72.3 |      |      |      |      |      |      |     |
| 25030               | 25030  | 72.5   | 71.8   | 65.5   | 64.8   | 72.2   | 75.1   | 76.6   | 78.4   | 80.9   | 77.1   | 78.6 |      |      |      |      |      |      |     |
| 31500               | 31500  | 71.8   | 69.3   | 65.3   | 69.4   | 72.7   | 75.5   | 76.7   | 78.5   | 80.2   | 78.8   | 69.1 |      |      |      |      |      |      |     |
| 48030               | 48030  | 69.1   | 64.4   | 66.1   | 68.8   | 78.3   | 73.2   | 74.8   | 75.4   | 77.8   | 74.3   | 65.2 |      |      |      |      |      |      |     |
| 58030               | 58030  | 78.4   | 65.5   | 67.0   | 66.5   | 68.6   | 69.6   | 78.8   | 78.7   | 73.1   | 78.6   | 63.7 |      |      |      |      |      |      |     |
| 63000               | 63000  | 72.8   | 68.9   | 69.4   | 67.1   | 68.8   | 68.7   | 68.4   | 67.3   | 69.8   | 67.7   | 64.8 |      |      |      |      |      |      |     |
| 80000               | 80000  | 74.2   | 69.8   | 72.8   | 68.9   | 69.3   | 78.4   | 69.8   | 68.9   | 68.3   | 68.5   | 67.8 |      |      |      |      |      |      |     |
| OVERALL MEASURED    |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |     |
| OVERALL CALCULATED  | 87.1   | 83.2   | 85.2   | 84.8   | 89.6   | 91.3   | 92.7   | 93.8   | 94.8   | 93.7   | 88.8   |      |      |      |      |      |      |      |     |
| PNDB                | 94.6   | 92.5   | 94.8   | 95.8   | 99.1   | 101.2  | 102.8  | 104.8  | 105.8  | 105.3  | 99.5   |      |      |      |      |      |      |      |     |

ORIGINAL PAGE IS OF POOR QUALITY

100-1011

|                    | 53    | 64    | 71    | 81    | 91    | 101   | 111   | 122   | 133   | 145   | 156   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| PRCE.              | 10.93 | 11.08 | 11.24 | 11.41 | 11.58 | 11.76 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 0.   | 100. | 100. | 100. | 100. |
| SIDE LINE 236. FT. | 59    | 63    | 69    | 75    | 81    | 87    | 93    | 99    | 105   | 111   | 117   | 123  | 129  | 135  | 141  | 147  |
| VEHICLE (00.00 H)  | 120   | 93.1  | 53.4  | 56.3  | 61.2  | 61.5  | 60.4  | 56.2  | 48.8  | 46.5  | 46.8  | 47.0 |      |      |      |      |
| WAVELENGTH (M)     | 125   | 90.5  | 43.8  | 47.7  | 45.9  | 48.0  | 46.0  | 45.0  | 47.3  | 47.4  | 45.9  | 44.0 |      |      |      |      |
| GLFIC              | 160   | 49.7  | 43.2  | 44.2  | 44.6  | 45.1  | 45.0  | 45.7  | 46.4  | 47.0  | 46.0  | 44.9 |      |      |      |      |
| LCC SCHEMATIC      | 230   | 49.3  | 41.6  | 43.0  | 45.2  | 46.0  | 47.7  | 47.7  | 48.8  | 49.0  | 48.0  | 46.2 |      |      |      |      |
| DATE 12/9/74       | 250   | 49.0  | 45.5  | 47.0  | 48.1  | 49.0  | 49.0  | 49.0  | 49.2  | 48.3  | 47.9  | 44.7 |      |      |      |      |
| RLH 31/9           | 315   | 49.6  | 47.2  | 47.9  | 49.8  | 49.9  | 49.5  | 48.7  | 49.1  | 48.0  | 47.1  | 43.0 |      |      |      |      |
| TYPE               | 450   | 49.5  | 45.4  | 48.1  | 47.2  | 48.1  | 46.4  | 46.4  | 47.8  | 48.1  | 46.9  | 43.3 |      |      |      |      |
| BAR 20.5 MG        | 500   | 47.9  | 44.8  | 44.7  | 45.0  | 47.0  | 49.1  | 48.5  | 49.7  | 48.7  | 47.3  | 42.3 |      |      |      |      |
| 100000 N/M2        | 630   | 46.6  | 46.2  | 48.1  | 49.1  | 50.8  | 52.5  | 53.2  | 52.4  | 51.9  | 49.3  | 42.0 |      |      |      |      |
| TANK 47. DEG F     | 800   | 51.9  | 49.3  | 51.0  | 50.7  | 53.9  | 54.4  | 54.5  | 54.2  | 53.4  | 51.4  | 44.9 |      |      |      |      |
| 1201. DEG F        | 1000  | 47.8  | 44.9  | 46.1  | 46.3  | 51.9  | 55.0  | 56.4  | 57.0  | 57.0  | 55.2  | 44.0 |      |      |      |      |
| TRAY 43. DEG F     | 1250  | 48.9  | 44.5  | 48.2  | 44.0  | 61.1  | 62.9  | 64.0  | 64.3  | 61.3  | 58.7  | 45.0 |      |      |      |      |
| 1270. DEG F        | 1600  | 45.7  | 41.8  | 46.3  | 46.9  | 55.4  | 57.5  | 56.8  | 57.4  | 54.6  | 51.2  | 48.3 |      |      |      |      |
| MACT 0.13 CM/M3    | 2000  | 45.0  | 40.9  | 42.0  | 44.7  | 48.0  | 47.9  | 47.9  | 48.2  | 47.4  | 45.0  | 38.0 |      |      |      |      |
| 100013 CM/M3       | 2500  | 44.7  | 43.2  | 45.4  | 47.0  | 49.1  | 50.7  | 50.4  | 53.2  | 52.4  | 46.3  | 38.0 |      |      |      |      |
| NFA 5400 RPM       | 3150  | 43.1  | 40.6  | 42.1  | 44.3  | 48.0  | 49.1  | 49.1  | 50.3  | 51.7  | 47.9  | 35.6 |      |      |      |      |
| 1 376. 445/SEC     | 4000  | 43.5  | 41.9  | 43.0  | 46.4  | 50.1  | 52.7  | 53.0  | 54.0  | 54.0  | 51.7  | 38.2 |      |      |      |      |
| NFK 5545 RPM       | 5000  | 42.9  | 39.3  | 42.0  | 44.0  | 47.0  | 50.0  | 53.2  | 54.1  | 52.7  | 49.0  | 36.0 |      |      |      |      |
| 1 583. 845/SEC     | 6300  | 42.4  | 39.5  | 41.0  | 44.0  | 48.0  | 50.0  | 53.0  | 53.3  | 53.3  | 48.4  | 35.0 |      |      |      |      |
| NFD 8023 RPM       | 8000  | 41.1  | 38.2  | 40.3  | 43.0  | 46.0  | 49.7  | 51.3  | 52.0  | 52.3  | 47.7  | 33.9 |      |      |      |      |
| 1 924. 845/SEC     | 10000 | 38.9  | 35.3  | 38.3  | 41.9  | 44.9  | 48.2  | 49.7  | 49.0  | 50.2  | 43.0  | 28.0 |      |      |      |      |
| NO. OF BLADES 15   | 12500 | 36.6  | 33.5  | 36.3  | 39.7  | 43.0  | 46.1  | 47.0  | 47.0  | 47.0  | 38.0  | 22.9 |      |      |      |      |
| FAN TIP SPEED      | 16000 | 31.2  | 27.3  | 30.3  | 34.7  | 38.5  | 40.9  | 41.0  | 43.1  | 41.0  | 30.5  | 11.7 |      |      |      |      |
| 400. FT/SEC        | 25000 | 22.1  | 23.4  | 26.2  | 28.1  | 30.0  | 32.7  | 30.4  | 34.0  | 35.9  | 23.0  |      |      |      |      |      |
|                    | 25000 | 19.2  | 21.7  | 18.9  | 23.7  | 27.0  | 29.0  | 29.5  | 27.7  | 24.1  | 9.3   |      |      |      |      |      |
|                    | 31500 | 5.0   | 8.7   | 8.1   | 14.2  | 18.2  | 20.1  | 18.0  | 16.0  | 4.8   |       |      |      |      |      |      |
|                    | 40000 |       |       |       |       | 1.0   | 2.0   | 0.3   |       |       |       |      |      |      |      |      |
|                    | 50000 |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |
|                    | 63000 |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |
|                    | 80000 |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |
| OVERALL CALCULATED |       | 61.4  | 58.5  | 61.7  | 64.0  | 68.5  | 67.0  | 68.3  | 68.0  | 66.5  | 63.8  | 58.0 |      |      |      |      |
| PM25               |       | 70.4  | 67.4  | 69.0  | 72.1  | 78.0  | 77.0  | 76.0  | 76.9  | 76.2  | 75.1  | 64.2 |      |      |      |      |

300

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = MURIN 12 MAY 8 PM, 14.1  
MURIN SOUND PRESSURE LEVELS 150, 160, 70 PERCENT REL. HUM. DATA  
ANGLES FROM INFLY IN DEGREES (AND HORIZ. DIST)

| PARAMETER          | 53    | 57   | 71   | 71   | 71   | 91   | 101  | 111   | 122   | 133   | 145   | 150  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|--------------------|-------|------|------|------|------|------|------|-------|-------|-------|-------|------|---|---|---|---|---|---|---|---|--|
| RADIAL 17. FT.     | 50    |      |      |      |      |      |      |       |       |       |       |      |   |   |   |   |   |   |   |   |  |
| VEHICLE            | 100   | 79.5 | 79.9 | 80.1 | 82.2 | 89.4 | 89.0 | 77.4  | 71.2  | 71.2  | 74.0  | 70.6 |   |   |   |   |   |   |   |   |  |
| CONFIC             | 125   | 84.0 | 87.9 | 71.9 | 80.2 | 80.1 | 87.2 | 87.1  | 70.6  | 71.0  | 71.0  | 73.0 |   |   |   |   |   |   |   |   |  |
| LOC SCHEMATIC      | 163   | 83.5 | 85.0 | 80.1 | 85.7 | 84.9 | 84.7 | 84.8  | 80.9  | 71.0  | 73.3  | 74.0 |   |   |   |   |   |   |   |   |  |
| DATE 12/5/74       | 200   | 84.5 | 84.6 | 80.4 | 85.7 | 87.4 | 89.4 | 89.9  | 71.1  | 72.5  | 74.0  | 75.0 |   |   |   |   |   |   |   |   |  |
| RUN 77/4           | 250   | 87.5 | 88.1 | 88.9 | 89.4 | 88.9 | 70.9 | 72.4  | 72.1  | 72.4  | 72.2  | 73.0 |   |   |   |   |   |   |   |   |  |
| TAPE               | 315   | 88.8 | 70.4 | 74.9 | 71.4 | 71.9 | 70.4 | 72.4  | 72.1  | 72.4  | 73.2  | 73.0 |   |   |   |   |   |   |   |   |  |
| BAR 32.1 MC        | 420   | 86.3 | 88.9 | 80.1 | 89.9 | 70.4 | 71.7 | 71.0  | 71.0  | 72.7  | 73.0  | 74.1 |   |   |   |   |   |   |   |   |  |
| 101478. 47/21      | 458   | 87.1 | 80.4 | 80.9 | 73.7 | 71.6 | 73.2 | 74.4  | 74.9  | 75.7  | 75.0  | 74.1 |   |   |   |   |   |   |   |   |  |
| TAND 30. LFG F     | 510   | 86.4 | 72.1 | 77.0 | 73.4 | 74.9 | 76.2 | 77.0  | 70.2  | 77.7  | 77.0  | 74.9 |   |   |   |   |   |   |   |   |  |
| 1277. LFG #1       | 600   | 75.9 | 75.4 | 75.6 | 75.4 | 74.0 | 76.4 | 70.1  | 79.4  | 79.2  | 78.0  | 75.0 |   |   |   |   |   |   |   |   |  |
| THET 30. LFG F     | 1000  | 71.4 | 72.6 | 73.4 | 74.2 | 74.0 | 78.4 | 70.6  | 80.0  | 80.2  | 80.1  | 75.1 |   |   |   |   |   |   |   |   |  |
| 1278. LFG #1       | 1254  | 70.7 | 71.4 | 73.1 | 70.2 | 77.7 | 80.7 | 83.6  | 84.0  | 84.7  | 85.0  | 77.4 |   |   |   |   |   |   |   |   |  |
| MATZ 4.74 34/23    | 1600  | 64.2 | 66.0 | 68.6 | 71.0 | 73.0 | 75.2 | 77.0  | 78.4  | 78.2  | 78.0  | 71.9 |   |   |   |   |   |   |   |   |  |
| 1.08474 40/23      | 2000  | 62.0 | 64.7 | 66.1 | 67.0 | 69.2 | 70.7 | 71.6  | 72.4  | 73.7  | 73.0  | 68.0 |   |   |   |   |   |   |   |   |  |
| MFA 5443. 004      | 2500  | 63.0 | 64.2 | 67.4 | 69.4 | 71.5 | 73.8 | 74.9  | 76.5  | 74.9  | 74.9  | 69.3 |   |   |   |   |   |   |   |   |  |
| 1 478. 40/SEC      | 3150  | 63.7 | 65.8 | 65.0 | 67.0 | 70.3 | 73.5 | 75.0  | 75.1  | 76.5  | 76.6  | 69.6 |   |   |   |   |   |   |   |   |  |
| MFA 5551. 004      | 4000  | 67.9 | 65.2 | 64.0 | 60.4 | 71.2 | 73.5 | 74.7  | 75.5  | 76.4  | 76.4  | 69.0 |   |   |   |   |   |   |   |   |  |
| 1 901. 40/SEC      | 6300  | 60.3 | 61.0 | 63.0 | 64.8 | 67.7 | 69.9 | 72.4  | 73.7  | 74.0  | 71.1  | 65.7 |   |   |   |   |   |   |   |   |  |
| MFA 4823. 004      | 8000  | 59.9 | 61.5 | 61.7 | 63.5 | 64.1 | 68.5 | 69.7  | 70.3  | 70.6  | 71.1  | 65.2 |   |   |   |   |   |   |   |   |  |
| 1 324. 40/SEC      | 10000 | 60.5 | 62.4 | 63.5 | 65.7 | 67.3 | 71.3 | 72.7  | 73.3  | 72.1  | 68.3  | 64.3 |   |   |   |   |   |   |   |   |  |
| NO. OF BLADES IS   | 12500 | 62.0 | 63.9 | 64.3 | 66.8 | 68.4 | 72.7 | 75.7  | 75.7  | 76.2  | 73.2  | 68.4 |   |   |   |   |   |   |   |   |  |
| PAN TIP SPEED      | 10000 | 66.4 | 65.5 | 66.4 | 68.6 | 71.3 | 74.1 | 76.6  | 79.3  | 80.3  | 77.9  | 72.5 |   |   |   |   |   |   |   |   |  |
| 475. FT/SEC        | 25000 | 63.1 | 63.2 | 64.3 | 66.5 | 70.5 | 73.2 | 74.1  | 74.6  | 76.0  | 78.2  | 71.5 |   |   |   |   |   |   |   |   |  |
|                    | 25000 | 64.1 | 64.8 | 65.5 | 68.9 | 72.3 | 75.4 | 74.3  | 80.4  | 82.5  | 78.2  | 73.0 |   |   |   |   |   |   |   |   |  |
|                    | 31500 | 66.4 | 66.4 | 69.2 | 72.3 | 74.0 | 77.2 | 79.2  | 80.4  | 82.5  | 78.4  | 71.4 |   |   |   |   |   |   |   |   |  |
|                    | 40000 | 68.0 | 66.7 | 68.4 | 70.3 | 73.1 | 74.4 | 78.4  | 80.7  | 81.4  | 78.2  | 70.5 |   |   |   |   |   |   |   |   |  |
|                    | 50000 | 66.4 | 63.4 | 65.3 | 67.1 | 70.0 | 74.4 | 76.1  | 78.2  | 79.6  | 76.1  | 68.0 |   |   |   |   |   |   |   |   |  |
|                    | 63000 | 60.6 | 64.3 | 66.5 | 65.3 | 67.1 | 69.0 | 72.4  | 72.3  | 73.2  | 71.3  | 63.0 |   |   |   |   |   |   |   |   |  |
|                    | 80000 | 70.2 | 67.6 | 64.7 | 65.0 | 64.0 | 66.7 | 68.2  | 67.2  | 67.7  | 67.2  | 63.0 |   |   |   |   |   |   |   |   |  |
|                    | 80000 | 75.4 | 67.2 | 70.0 | 68.7 | 67.0 | 67.0 | 68.1  | 67.0  | 69.0  | 66.6  | 60.2 |   |   |   |   |   |   |   |   |  |
| OVERALL MEASURED   |       |      |      |      |      |      |      |       |       |       |       |      |   |   |   |   |   |   |   |   |  |
| OVERALL CALCULATED |       | 84.3 | 83.5 | 85.3 | 86.6 | 87.8 | 88.4 | 85.8  | 82.8  | 82.6  | 81.7  | 87.4 |   |   |   |   |   |   |   |   |  |
| PAN                |       | 98.0 | 91.9 | 93.1 | 94.6 | 94.7 | 96.0 | 100.0 | 100.9 | 101.5 | 101.4 | 96.4 |   |   |   |   |   |   |   |   |  |

|                                | 51     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 160    | 0.   | 0.   | 0.   | 0.   | 0.   | 0.    |
|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|-------|
| FR. 3.                         | (0.92) | (1.04) | (1.24) | (1.41) | (1.54) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 110. | 110. | 110. | 110. | 110.) |
| SIDELINE 200. FT.<br>(50.96 M) | 120    | 44.9   | 53.2   | 58.1   | 60.5   | 60.4   | 59.2   | 55.2   | 48.1   | 46.8   | 46.3   | 46.3 |      |      |      |      |       |
| VEHICLE R-55                   | 125    | 42.3   | 45.1   | 49.5   | 46.4   | 47.5   | 45.3   | 44.6   | 47.3   | 46.4   | 45.2   | 43.4 |      |      |      |      |       |
| CONFIG 9                       | 160    | 39.7   | 42.7   | 43.9   | 43.8   | 44.1   | 44.8   | 46.0   | 45.7   | 46.3   | 46.5   | 44.1 |      |      |      |      |       |
| LOC SCHEMATIC ADV              | 200    | 40.6   | 41.6   | 44.1   | 43.7   | 45.4   | 47.4   | 47.4   | 47.6   | 47.7   | 47.6   | 45.2 |      |      |      |      |       |
| DATE 12/4/74                   | 250    | 43.5   | 45.0   | 47.5   | 47.6   | 48.0   | 48.4   | 49.6   | 49.0   | 47.3   | 46.7   | 44.0 |      |      |      |      |       |
| RUN 27/4                       | 315    | 43.9   | 47.2   | 48.4   | 49.3   | 49.9   | 50.3   | 49.5   | 48.9   | 48.2   | 46.6   | 43.0 |      |      |      |      |       |
| TAPE                           | 470    | 47.0   | 45.9   | 46.6   | 47.7   | 48.3   | 49.4   | 49.1   | 48.3   | 47.6   | 46.4   | 42.0 |      |      |      |      |       |
| BAR 30-1 MG<br>(01470. 4/42)   | 530    | 47.7   | 46.0   | 47.2   | 46.4   | 49.5   | 50.0   | 51.5   | 51.2   | 50.5   | 48.3   | 42.8 |      |      |      |      |       |
| TAND 39. DFG F                 | 600    | 51.2   | 51.8   | 52.7   | 53.0   | 54.5   | 55.9   | 56.0   | 55.4   | 53.7   | 50.9   | 43.5 |      |      |      |      |       |
| (277. DFG M)                   | 1000   | 46.6   | 48.9   | 50.3   | 51.6   | 54.2   | 55.8   | 56.4   | 56.2   | 54.5   | 51.9   | 42.6 |      |      |      |      |       |
| THET 36. DFG F                 | 1200   | 45.7   | 47.5   | 50.0   | 53.5   | 55.1   | 57.9   | 60.3   | 60.6   | 58.6   | 57.2   | 44.8 |      |      |      |      |       |
| (275. DFG M)                   | 1600   | 40.9   | 42.8   | 45.3   | 48.1   | 50.2   | 52.3   | 54.3   | 53.9   | 52.1   | 49.9   | 38.6 |      |      |      |      |       |
| NACT 4.74 GM/43                | 2000   | 37.5   | 40.4   | 42.6   | 44.7   | 46.3   | 47.6   | 47.9   | 47.7   | 47.4   | 44.6   | 35.1 |      |      |      |      |       |
| (.00474 AR/43)                 | 2500   | 38.2   | 41.7   | 43.6   | 46.1   | 48.4   | 49.7   | 49.9   | 49.9   | 49.9   | 45.5   | 35.1 |      |      |      |      |       |
| NFA 5443. RPM                  | 3150   | 34.6   | 40.1   | 41.8   | 44.3   | 46.9   | 49.9   | 50.8   | 49.8   | 49.5   | 46.8   | 34.7 |      |      |      |      |       |
| ( 570. RAD/SEC)                | 4000   | 36.3   | 39.9   | 41.6   | 44.4   | 47.4   | 49.4   | 50.1   | 49.8   | 48.8   | 45.6   | 33.6 |      |      |      |      |       |
| NFR 5551. RPM                  | 5000   | 33.5   | 36.3   | 38.3   | 40.6   | 43.7   | 45.7   | 47.5   | 47.7   | 46.7   | 40.0   | 29.1 |      |      |      |      |       |
| ( 561. RAD/SEC)                | 6300   | 32.1   | 35.1   | 36.2   | 38.6   | 41.3   | 43.2   | 44.0   | 43.6   | 43.2   | 37.0   | 26.6 |      |      |      |      |       |
| NPD 8823. RPM                  | 8000   | 31.4   | 34.8   | 36.9   | 39.7   | 41.4   | 44.2   | 45.9   | 47.6   | 45.6   | 39.0   | 27.1 |      |      |      |      |       |
| ( 524. RAD/SEC)                | 10000  | 31.5   | 33.7   | 36.1   | 39.3   | 42.0   | 45.1   | 47.3   | 47.3   | 46.8   | 38.8   | 25.6 |      |      |      |      |       |
| NO. OF BLADES 15               | 12500  | 32.4   | 33.6   | 35.9   | 38.8   | 41.7   | 44.2   | 45.8   | 46.7   | 44.7   | 37.0   | 21.8 |      |      |      |      |       |
| FAN TIP SPEED                  | 14000  | 24.6   | 27.2   | 29.9   | 33.1   | 37.3   | 39.7   | 41.5   | 41.7   | 39.2   | 28.9   | 11.1 |      |      |      |      |       |
| 475. FT/SEC                    | 20000  | 19.5   | 22.6   | 26.1   | 30.7   | 34.4   | 37.0   | 38.5   | 37.9   | 35.2   | 22.7   | 0.2  |      |      |      |      |       |
|                                | 25000  | 13.1   | 15.6   | 19.8   | 24.1   | 27.7   | 29.7   | 30.1   | 28.6   | 23.4   | 9.6    |      |      |      |      |      |       |
|                                | 31500  |        | 4.1    | 9.3    | 15.1   | 18.6   | 21.5   | 20.6   | 18.2   | 10.6   |        |      |      |      |      |      |       |
|                                | 40000  |        |        |        |        | 1.5    | 3.6    | 2.3    |        |        |        |      |      |      |      |      |       |
|                                | 50000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |
|                                | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |
|                                | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |
| OVERALL CALCULATED             |        | 56.6   | 59.4   | 62.1   | 63.8   | 64.9   | 65.6   | 66.0   | 65.6   | 64.2   | 62.0   | 64.9 |      |      |      |      |       |
| PNDB                           |        | 64.8   | 67.0   | 69.6   | 71.0   | 73.1   | 75.0   | 76.0   | 75.9   | 74.6   | 72.0   | 61.6 |      |      |      |      |       |

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|                           | FREQ. | 50.    | 60.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 132.   | 145.   | 150.   | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | PdL   |
|---------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|-------|
|                           |       | (0.92) | (1.09) | (1.24) | (1.41) | (1.54) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0. | (0. | (0. | (0. | (0. | (0. |       |
| RADIAL 17. FT.            | 50    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |       |
| ( 5. M)                   | 60    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |       |
| VEHICLE R-55              | 100   | 74.6   | 75.6   | 73.4   | 72.2   | 69.9   | 69.0   | 69.6   | 69.4   | 72.2   | 74.1   | 79.4   |     |     |     |     |     |     | 107.7 |
| CONFIG 9                  | 125   | 74.3   | 69.4   | 72.0   | 69.9   | 71.6   | 66.7   | 70.4   | 72.9   | 74.2   | 76.1   | 78.4   |     |     |     |     |     |     | 107.1 |
| LOC SCHENECTADY           | 160   | 74.3   | 68.6   | 68.9   | 69.2   | 69.4   | 69.4   | 71.6   | 72.4   | 74.7   | 77.6   | 79.4   |     |     |     |     |     |     | 107.2 |
| DATE 12/5/74              | 200   | 74.0   | 67.9   | 68.9   | 69.2   | 70.4   | 72.4   | 73.4   | 75.1   | 76.5   | 79.1   | 80.1   |     |     |     |     |     |     | 104.5 |
| RUN 27/5                  | 250   | 74.3   | 71.1   | 72.6   | 72.4   | 73.1   | 73.9   | 75.1   | 74.9   | 76.2   | 77.8   | 78.8   |     |     |     |     |     |     | 108.9 |
| TAPE                      | 315   | 75.0   | 73.9   | 73.9   | 74.4   | 74.6   | 75.4   | 75.8   | 75.4   | 76.2   | 77.8   | 78.8   |     |     |     |     |     |     | 109.6 |
| BAR 30.1 MG               | 400   | 74.3   | 70.9   | 71.4   | 71.9   | 72.6   | 73.7   | 74.4   | 74.9   | 76.0   | 77.1   | 77.8   |     |     |     |     |     |     | 108.4 |
| (01478. N/M2)             | 500   | 73.3   | 70.6   | 71.9   | 72.4   | 73.6   | 75.2   | 76.6   | 76.9   | 77.7   | 78.3   | 77.4   |     |     |     |     |     |     | 109.8 |
| TAMB 3A. DFC F            | 630   | 75.1   | 73.9   | 75.4   | 75.7   | 77.7   | 76.7   | 80.4   | 80.4   | 80.2   | 81.3   | 77.9   |     |     |     |     |     |     | 112.5 |
| (27A. DFC F)              | 800   | 77.9   | 76.9   | 77.4   | 77.9   | 74.9   | 80.9   | 81.8   | 81.6   | 81.7   | 81.3   | 77.9   |     |     |     |     |     |     | 114.1 |
| TNET 35. DFC F            | 1000  | 74.4   | 75.1   | 75.6   | 76.9   | 74.9   | 80.7   | 81.6   | 81.9   | 82.5   | 81.8   | 77.1   |     |     |     |     |     |     | 113.9 |
| (275. DFC F)              | 1250  | 75.2   | 71.7   | 73.1   | 75.5   | 77.7   | 79.5   | 81.3   | 82.1   | 82.2   | 82.1   | 76.9   |     |     |     |     |     |     | 113.4 |
| NACT 4.53 CM/MS           | 1600  | 74.2   | 70.4   | 72.4   | 74.8   | 77.7   | 80.2   | 81.6   | 81.6   | 82.5   | 82.1   | 76.6   |     |     |     |     |     |     | 113.4 |
| (.00453 CM/MS)            | 2000  | 72.7   | 68.0   | 69.1   | 70.8   | 72.2   | 73.8   | 74.8   | 75.1   | 77.0   | 75.9   | 72.8   |     |     |     |     |     |     | 107.8 |
| NFA ( 6216. RPM)          | 2500  | 73.4   | 68.5   | 69.4   | 71.9   | 74.3   | 75.4   | 75.6   | 75.6   | 77.7   | 75.4   | 72.8   |     |     |     |     |     |     | 108.6 |
| ( 651. RAD/SEC)           | 3150  | 72.4   | 69.0   | 70.4   | 71.9   | 74.5   | 78.0   | 79.5   | 79.3   | 82.0   | 79.7   | 76.3   |     |     |     |     |     |     | 111.6 |
| NPK 6346. RPM             | 4000  | 72.9   | 69.2   | 70.3   | 72.9   | 74.0   | 77.7   | 74.5   | 78.3   | 80.4   | 78.6   | 75.3   |     |     |     |     |     |     | 110.9 |
| ( 664. RAD/SEC)           | 5000  | 72.6   | 65.4   | 67.2   | 69.6   | 72.0   | 74.2   | 74.2   | 76.9   | 78.6   | 73.8   | 75.0   |     |     |     |     |     |     | 108.5 |
| RWD 8823. RPM             | 6300  | 72.7   | 63.7   | 65.0   | 67.2   | 69.6   | 71.9   | 72.7   | 73.3   | 74.6   | 71.5   | 77.5   |     |     |     |     |     |     | 106.3 |
| ( 924. RAD/SEC)           | 8000  | 73.1   | 65.2   | 66.5   | 69.0   | 71.3   | 75.1   | 76.5   | 78.0   | 79.6   | 75.2   | 79.6   |     |     |     |     |     |     | 109.6 |
| NO. OF BLADES 15          | 10000 | 73.4   | 66.3   | 67.8   | 70.6   | 74.1   | 76.7   | 79.5   | 80.5   | 82.1   | 77.5   | 82.8   |     |     |     |     |     |     | 112.3 |
| FAN TIP SPEED 543. FT/SEC | 12500 | 74.1   | 68.2   | 69.7   | 72.1   | 74.3   | 74.3   | 79.8   | 82.6   | 84.1   | 80.4   | 84.8   |     |     |     |     |     |     | 114.3 |
|                           | 16000 | 74.4   | 68.0   | 67.6   | 70.3   | 74.0   | 77.0   | 79.4   | 81.6   | 83.1   | 78.2   | 85.0   |     |     |     |     |     |     | 113.8 |
|                           | 20000 | 74.4   | 67.3   | 69.5   | 72.5   | 74.8   | 76.9   | 81.6   | 83.7   | 86.0   | 81.5   | 85.7   |     |     |     |     |     |     | 116.3 |
|                           | 25000 | 74.4   | 67.6   | 69.3   | 72.9   | 74.8   | 78.9   | 81.1   | 82.2   | 84.2   | 79.9   | 84.9   |     |     |     |     |     |     | 115.9 |
|                           | 31500 | 73.7   | 64.2   | 70.3   | 75.0   | 77.8   | 80.8   | 82.9   | 84.2   | 84.8   | 81.2   | 81.2   |     |     |     |     |     |     | 117.7 |
|                           | 40000 | 71.9   | 66.3   | 68.5   | 71.2   | 74.0   | 78.4   | 80.8   | 81.8   | 83.1   | 79.3   | 74.8   |     |     |     |     |     |     | 116.7 |
|                           | 50000 | 73.5   | 65.8   | 68.6   | 67.9   | 71.0   | 73.8   | 75.8   | 75.9   | 76.6   | 74.4   | 73.3   |     |     |     |     |     |     | 113.7 |
|                           | 63000 | 73.7   | 65.6   | 69.7   | 66.9   | 64.1   | 68.8   | 71.0   | 69.5   | 70.2   | 69.2   | 72.8   |     |     |     |     |     |     | 112.8 |
|                           | 80000 | 73.1   | 68.4   | 69.7   | 66.7   | 67.2   | 67.6   | 68.1   | 67.0   | 66.7   | 66.9   | 66.9   |     |     |     |     |     |     | 118.3 |
| OVERALL MEASURED          |       |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |       |
| OVERALL CALCULATED        |       | 86.0   | 85.3   | 86.3   | 87.4   | 86.5   | 91.7   | 93.3   | 94.2   | 95.4   | 93.5   | 94.6   |     |     |     |     |     |     | 127.5 |
| PND%                      |       | 90.9   | 94.8   | 96.0   | 97.7   | 100.1  | 102.0  | 103.3  | 103.5  | 105.3  | 103.8  | 102.2  |     |     |     |     |     |     |       |

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mg

|                     | PRCC  | 43.    | 69.    | 71.    | 91.    | 91.    | 91.    | 101.   | 111.   | 129.   | 133.   | 149.   | 150.  | 0.     | 0.     | 0.     | 0.     | 0.     | 0.    |
|---------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-------|
|                     |       | (1.74) | (1.04) | (1.24) | (1.41) | (1.54) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.0) | (3.14) | (3.49) | (3.93) | (4.36) | (4.71) | (5.0) |
| SIDE LINE 200. FV.  | 50    |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |       |
| (50.00 F)           | 60    |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |       |
| VEHICLE             | 125   | 54.5   | 46.6   | 54.7   | 46.1   | 46.0   | 47.4   | 46.1   | 49.8   | 49.7   | 49.4   | 49.1   |       |        |        |        |        |        |       |
| CONFIG              | 160   | 50.4   | 45.7   | 46.7   | 47.3   | 47.6   | 47.5   | 49.2   | 49.2   | 50.1   | 50.8   | 48.9   |       |        |        |        |        |        |       |
| LOC SCHEMECTADY     | 200   | 50.1   | 44.9   | 46.6   | 47.2   | 44.6   | 50.4   | 50.9   | 51.6   | 51.7   | 42.1   | 49.4   |       |        |        |        |        |        |       |
| DATE 12/5/74        | 250   | 50.2   | 44.0   | 50.2   | 46.4   | 51.2   | 51.9   | 42.6   | 51.5   | 51.3   | 50.7   | 48.0   |       |        |        |        |        |        |       |
| RUN 27/5            | 310   | 50.9   | 50.7   | 51.4   | 52.3   | 49.7   | 53.3   | 43.2   | 51.9   | 51.2   | 50.6   | 47.5   |       |        |        |        |        |        |       |
| TAPE                | 400   | 50.0   | 47.6   | 49.0   | 49.7   | 48.6   | 51.4   | 51.6   | 51.3   | 50.9   | 49.7   | 48.9   |       |        |        |        |        |        |       |
| BAR 35.1 MC         | 500   | 44.4   | 47.3   | 49.2   | 50.2   | 41.5   | 52.9   | 43.6   | 53.2   | 52.5   | 40.6   | 45.0   |       |        |        |        |        |        |       |
| (101478. 4/2)       | 600   | 50.9   | 50.4   | 52.6   | 53.3   | 45.4   | 50.3   | 57.4   | 56.5   | 54.9   | 52.6   | 48.0   |       |        |        |        |        |        |       |
| TAMP 30. CFC F      | 800   | 53.2   | 53.3   | 54.5   | 55.5   | 44.5   | 58.4   | 48.8   | 57.7   | 56.2   | 43.4   | 45.7   |       |        |        |        |        |        |       |
| (276. CFC F)        | 1000  | 47.6   | 51.4   | 52.6   | 54.3   | 44.4   | 58.9   | 58.4   | 57.7   | 56.8   | 53.7   | 44.0   |       |        |        |        |        |        |       |
| TNET 35. CFC F      | 1250  | 50.2   | 47.7   | 50.0   | 52.6   | 44.1   | 55.7   | 46.0   | 57.6   | 56.3   | 43.7   | 44.0   |       |        |        |        |        |        |       |
| (276. CFC F)        | 1500  | 44.4   | 46.3   | 49.0   | 51.0   | 44.9   | 57.3   | 44.1   | 57.1   | 56.4   | 53.4   | 43.3   |       |        |        |        |        |        |       |
| MACT 4.53 CM/3      | 2000  | 47.2   | 43.6   | 45.6   | 47.7   | 40.3   | 59.6   | 41.1   | 50.4   | 50.6   | 46.6   | 38.9   |       |        |        |        |        |        |       |
| (1.00453. CM/3)     | 2500  | 47.8   | 44.0   | 45.7   | 46.6   | 41.1   | 52.2   | 41.7   | 50.7   | 51.1   | 46.6   | 38.7   |       |        |        |        |        |        |       |
| MFA 6216. RPM       | 3150  | 45.4   | 44.2   | 46.3   | 48.3   | 41.1   | 54.4   | 45.3   | 54.1   | 55.0   | 49.8   | 41.4   |       |        |        |        |        |        |       |
| (1 651. 4AD/SEC)    | 4000  | 44.3   | 43.9   | 45.5   | 48.9   | 42.2   | 53.7   | 43.8   | 52.5   | 52.8   | 46.0   | 39.3   |       |        |        |        |        |        |       |
| MFA 6346. RPM       | 5000  | 46.7   | 39.6   | 42.5   | 45.4   | 47.9   | 49.9   | 51.3   | 50.9   | 50.7   | 42.8   | 38.3   |       |        |        |        |        |        |       |
| (1 664. 4AD/SEC)    | 6000  | 44.9   | 37.4   | 39.5   | 42.3   | 44.9   | 46.9   | 47.0   | 46.4   | 45.7   | 39.3   | 39.1   |       |        |        |        |        |        |       |
| MFA 6623. RPM       | 8000  | 43.6   | 37.6   | 39.9   | 43.0   | 44.5   | 49.0   | 49.7   | 49.6   | 49.3   | 41.0   | 38.4   |       |        |        |        |        |        |       |
| (1 924. 4AD/SEC)    | 10000 | 42.3   | 36.9   | 38.6   | 43.0   | 44.8   | 49.1   | 51.1   | 50.5   | 49.6   | 40.6   | 37.6   |       |        |        |        |        |        |       |
| NO. OF BLADPS 15    | 12500 | 40.2   | 36.4   | 39.1   | 42.4   | 44.9   | 49.5   | 49.0   | 50.0   | 48.5   | 39.6   | 33.6   |       |        |        |        |        |        |       |
| FAN TIP SPEED       | 16000 | 35.9   | 30.0   | 33.2   | 36.9   | 40.9   | 43.5   | 44.7   | 44.7   | 42.4   | 30.9   | 24.6   |       |        |        |        |        |        |       |
| 543. FT/SEC         | 20000 | 29.8   | 25.9   | 30.1   | 34.2   | 34.0   | 40.6   | 41.6   | 41.2   | 38.7   | 25.7   | 13.0   |       |        |        |        |        |        |       |
|                     | 25000 | 21.1   | 18.4   | 22.6   | 27.8   | 31.2   | 35.6   | 34.0   | 31.5   | 27.4   | 12.8   |        |       |        |        |        |        |        |       |
|                     | 31500 | 7.6    | 7.6    | 13.2   | 19.6   | 23.3   | 25.4   | 25.0   | 21.6   | 14.1   |        |        |       |        |        |        |        |        |       |
|                     | 40000 |        |        |        | 1.1    | 5.7    | 6.0    | 7.0    | 1.7    |        |        |        |       |        |        |        |        |        |       |
|                     | 50000 |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |       |
|                     | 63000 |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |       |
|                     | 80000 |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |       |
| AVERALL CAL CU ATEN |       | 62.8   | 61.1   | 62.5   | 63.7   | 64.4   | 66.9   | 67.6   | 66.9   | 66.2   | 63.6   | 64.7   |       |        |        |        |        |        |       |
| PRCC                |       | 72.8   | 69.9   | 71.9   | 74.0   | 76.5   | 76.2   | 79.1   | 76.2   | 76.3   | 74.0   | 67.2   |       |        |        |        |        |        |       |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 12 DAY 9 YR. 14.1

MODEL SOUND PRESSURE LEVELS (50. LEG. P. 70 PERCENT REL. HUM. DAY)

ANGLE FROM INLET IN LEGMES (AND RADIANE)

|  | 51.    | 62.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0.    | 0.   | 0.   | 0.   | 0.   | 0.   | PPL  |       |
|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| FREQ. (C. 92)(1.08)(1.24)(1.41)(1.59)(1.77)(1.94)(2.13)(2.32)(2.52)(2.73)(3.0) | 10.92  | 11.08 | 11.24 | 11.41 | 11.59 | 11.77 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 10.   | 110. | 110. | 110. | 110. | 110. | 110. |       |
| RADIAL 17. FT.   | 50     |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |       |
| ( 5. M)  | 63     |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |       |
| VEHICLE 0-55   | 100    | 71.6  | 73.4  | 73.1  | 71.2  | 69.9  | 70.7  | 70.9  | 71.7  | 75.0  | 79.6  | 83.1  |      |      |      |      |      |      | 109.0 |
| CONFIG 0   | 125    | 74.9  | 80.1  | 79.4  | 75.9  | 73.6  | 73.2  | 73.6  | 76.2  | 78.0  | 80.3  | 82.9  |      |      |      |      |      |      | 111.4 |
| LOC SCHEMPTADY   | 160    | 73.5  | 71.0  | 71.9  | 72.2  | 72.4  | 72.4  | 74.6  | 75.9  | 78.5  | 81.1  | 83.1  |      |      |      |      |      |      | 110.4 |
| GATE 12/9/74   | 200    | 77.0  | 70.1  | 71.4  | 72.4  | 71.9  | 75.4  | 76.4  | 77.9  | 79.5  | 82.0  | 84.1  |      |      |      |      |      |      | 111.6 |
| RUN 27/A   | 250    | 74.3  | 74.4  | 75.6  | 75.8  | 76.9  | 76.9  | 78.3  | 78.4  | 80.5  | 82.3  | 82.8  |      |      |      |      |      |      | 112.4 |
| TAPE   | 315    | 74.3  | 76.4  | 74.9  | 77.4  | 77.9  | 78.4  | 78.3  | 78.6  | 79.7  | 81.8  | 82.6  |      |      |      |      |      |      | 112.8 |
| BAR 30.1 HR  | 400    | 74.3  | 74.1  | 74.6  | 75.2  | 74.6  | 74.2  | 76.9  | 77.4  | 79.0  | 81.1  | 81.3  |      |      |      |      |      |      | 111.3 |
| (31474. N/M2)  | 500    | 73.3  | 73.1  | 73.9  | 73.2  | 74.9  | 77.7  | 79.1  | 79.7  | 80.7  | 81.6  | 80.9  |      |      |      |      |      |      | 112.2 |
| TAMB 3A. DFC F   | 630    | 75.0  | 76.1  | 77.6  | 76.2  | 80.4  | 81.7  | 82.9  | 82.7  | 82.7  | 82.8  | 80.9  |      |      |      |      |      |      | 115.0 |
| (276. DFC #)   | 800    | 74.1  | 74.6  | 79.4  | 79.9  | 81.6  | 82.7  | 83.6  | 83.4  | 83.0  | 83.3  | 81.4  |      |      |      |      |      |      | 115.9 |
| TNEY 25. DFC F   | 1000   | 77.1  | 77.5  | 78.1  | 79.7  | 81.4  | 82.7  | 84.1  | 84.4  | 84.5  | 83.6  | 79.8  |      |      |      |      |      |      | 116.2 |
| (275. DFC #)   | 1250   | 74.9  | 74.4  | 75.9  | 77.7  | 78.9  | 82.2  | 83.6  | 84.1  | 84.2  | 83.6  | 80.1  |      |      |      |      |      |      | 115.5 |
| WACT 4.53 G/M3   | 1500   | 74.9  | 72.7  | 74.6  | 76.8  | 79.6  | 81.0  | 82.3  | 81.6  | 81.5  | 80.6  | 77.9  |      |      |      |      |      |      | 113.7 |
| (.00453 KG/M3)   | 2000   | 72.4  | 71.5  | 72.9  | 74.6  | 74.5  | 77.4  | 79.1  | 78.9  | 79.7  | 78.6  | 76.4  |      |      |      |      |      |      | 111.2 |
| WFA 6977. RPM  | 2500   | 72.9  | 71.5  | 72.9  | 75.1  | 74.8  | 74.0  | 78.6  | 79.4  | 80.7  | 78.2  | 75.6  |      |      |      |      |      |      | 111.4 |
| ( 730. P/G/SEC)  | 3150   | 71.9  | 70.7  | 72.9  | 74.9  | 77.8  | 79.8  | 81.5  | 81.6  | 83.2  | 79.7  | 76.3  |      |      |      |      |      |      | 113.2 |
| WFX 7123. RPM  | 4000   | 72.9  | 72.9  | 74.6  | 76.9  | 80.0  | 82.7  | 82.5  | 83.0  | 83.9  | 80.9  | 77.6  |      |      |      |      |      |      | 114.8 |
| ( 746. WAD/SEC)  | 5000   | 71.6  | 68.7  | 71.2  | 73.9  | 74.2  | 76.2  | 79.4  | 81.7  | 79.9  | 76.6  | 76.0  |      |      |      |      |      |      | 111.6 |
| WFD 8523. RPM  | 6300   | 72.2  | 66.7  | 66.7  | 71.9  | 74.1  | 75.7  | 74.2  | 77.0  | 76.9  | 74.0  | 77.3  |      |      |      |      |      |      | 108.9 |
| ( 924. WAD/SEC)  | 8000   | 72.3  | 67.9  | 70.9  | 73.0  | 74.9  | 76.1  | 80.2  | 80.7  | 82.0  | 77.7  | 69.9  |      |      |      |      |      |      | 112.4 |
| NO. OF BLANKS IS   | 10000  | 73.1  | 68.6  | 71.1  | 74.6  | 77.4  | 80.2  | 82.5  | 83.7  | 84.9  | 80.2  | 83.1  |      |      |      |      |      |      | 115.0 |
| FAN TIP SPEED  | 15000  | 73.9  | 69.7  | 72.7  | 75.9  | 79.3  | 81.4  | 84.3  | 85.6  | 86.8  | 82.9  | 85.0  |      |      |      |      |      |      | 117.1 |
| 609. FT/SEC  | 20000  | 73.9  | 68.5  | 71.1  | 73.8  | 77.7  | 80.3  | 82.7  | 85.1  | 85.1  | 80.7  | 86.5  |      |      |      |      |      |      | 116.9 |
|  | 25000  | 71.9  | 69.3  | 73.0  | 76.2  | 79.8  | 82.9  | 84.8  | 87.5  | 86.0  | 83.5  | 86.0  |      |      |      |      |      |      | 119.1 |
|  | 31500  | 74.9  | 70.6  | 73.1  | 76.4  | 79.8  | 82.4  | 84.4  | 86.7  | 86.0  | 83.4  | 87.4  |      |      |      |      |      |      | 116.8 |
|  | 40000  | 74.7  | 71.2  | 74.6  | 78.5  | 81.6  | 84.1  | 86.4  | 87.7  | 87.8  | 82.5  | 83.7  |      |      |      |      |      |      | 120.4 |
|  | 50000  | 73.2  | 68.8  | 72.7  | 75.7  | 78.7  | 81.9  | 84.3  | 85.6  | 85.6  | 81.8  | 81.7  |      |      |      |      |      |      | 117.1 |
|  | 63000  | 73.7  | 66.3  | 70.3  | 71.1  | 74.2  | 76.6  | 79.5  | 79.9  | 80.3  | 77.6  | 78.5  |      |      |      |      |      |      | 119.0 |
|  | 80000  | 73.9  | 65.9  | 70.2  | 66.9  | 69.8  | 70.5  | 73.0  | 72.5  | 72.7  | 70.5  | 75.8  |      |      |      |      |      |      | 119.0 |
|  | 100000 | 73.6  | 69.4  | 70.0  | 68.7  | 67.5  | 67.6  | 69.1  | 68.2  | 67.4  | 67.4  | 67.9  |      |      |      |      |      |      | 119.0 |
| OVERALL MEASURED   |        |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |       |
| OVERALL CALCULATED   |        | 89.0  | 88.1  | 89.2  | 90.5  | 92.6  | 94.6  | 96.2  | 97.3  | 97.9  | 95.9  | 97.0  |      |      |      |      |      |      |       |
| PADD   |        | 96.7  | 96.0  | 99.5  | 101.2 | 103.5 | 105.5 | 106.2 | 106.7 | 107.5 | 105.7 | 104.3 |      |      |      |      |      |      |       |

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|                    | 00    | 05   | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   | 75   | 80 | 85 | 90 |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|
| SIDELINE 200. FT.  | 100   | 44.1 | 50.7 | 51.1 | 49.5 | 48.3 | 48.0 | 48.7 | 48.0 | 50.5 | 53.0 | 53.0 | 53.0 | 53.4 | 53.7 | 52.0 |    |    |    |
| VEHICLE 8-55       | 125   | 52.0 | 57.3 | 57.2 | 54.1 | 52.0 | 51.3 | 51.3 | 53.0 | 53.4 | 53.7 | 52.0 |      |      |      |      |    |    |    |
| CONFIG 9           | 150   | 49.7 | 48.7 | 49.7 | 50.3 | 50.4 | 50.4 | 52.2 | 52.7 | 53.8 | 44.3 | 52.6 |      |      |      |      |    |    |    |
| LOC SCHENECTADY    | 200   | 44.4 | 47.1 | 49.1 | 52.5 | 49.1 | 53.4 | 53.9 | 54.8 | 54.7 | 55.0 | 53.4 |      |      |      |      |    |    |    |
| DATE 12/5/78       | 250   | 50.2 | 51.3 | 53.2 | 43.6 | 44.3 | 54.8 | 55.8 | 55.0 | 55.0 | 55.2 | 52.0 |      |      |      |      |    |    |    |
| RUN 27/5           | 315   | 52.1 | 53.2 | 54.4 | 55.3 | 55.9 | 56.3 | 55.7 | 55.1 | 54.7 | 54.8 | 51.5 |      |      |      |      |    |    |    |
| TAPE               | 400   | 50.0 | 50.9 | 52.1 | 53.0 | 53.5 | 53.9 | 44.1 | 53.0 | 53.9 | 53.7 | 50.0 |      |      |      |      |    |    |    |
| BAR 30-1 MC        | 500   | 44.4 | 49.4 | 51.2 | 52.9 | 51.7 | 54.4 | 56.3 | 55.9 | 55.5 | 54.0 | 49.3 |      |      |      |      |    |    |    |
| (01470. V/M2)      | 630   | 51.1 | 52.7 | 54.9 | 55.8 | 54.2 | 59.3 | 59.9 | 59.8 | 57.4 | 55.1 | 49.0 |      |      |      |      |    |    |    |
| TARD 30. DFC F     | 800   | 53.4 | 55.0 | 56.5 | 57.5 | 49.3 | 60.2 | 60.5 | 59.4 | 57.4 | 55.4 | 49.2 |      |      |      |      |    |    |    |
| (276. DFC K)       | 1000  | 52.3 | 53.9 | 55.1 | 57.1 | 54.9 | 60.0 | 60.9 | 60.2 | 58.8 | 55.4 | 47.4 |      |      |      |      |    |    |    |
| TNET 35. DFC F     | 1250  | 49.9 | 50.5 | 52.7 | 53.0 | 57.3 | 59.4 | 60.3 | 59.0 | 58.3 | 55.2 | 47.3 |      |      |      |      |    |    |    |
| (275. DEG K)       | 1500  | 49.7 | 48.5 | 51.3 | 53.9 | 54.2 | 54.0 | 54.8 | 57.1 | 55.4 | 51.9 | 44.0 |      |      |      |      |    |    |    |
| NACT 4.53 CH/M3    | 2000  | 47.0 | 47.1 | 49.3 | 51.5 | 53.5 | 54.4 | 55.4 | 54.2 | 53.4 | 49.8 | 42.0 |      |      |      |      |    |    |    |
| (-02453. AC/P3)    | 2500  | 47.3 | 47.0 | 49.2 | 51.8 | 53.6 | 54.7 | 54.9 | 54.4 | 54.1 | 48.8 | 41.4 |      |      |      |      |    |    |    |
| NFA 6977. MPH      | 3150  | 45.9 | 45.9 | 48.8 | 51.3 | 54.4 | 56.2 | 57.3 | 56.3 | 56.2 | 49.8 | 41.4 |      |      |      |      |    |    |    |
| ( 730. RAD/SEC)    | 4000  | 46.3 | 47.7 | 50.3 | 52.9 | 54.2 | 56.7 | 57.8 | 57.3 | 56.3 | 50.3 | 41.8 |      |      |      |      |    |    |    |
| NFA 7123. MPH      | 5000  | 44.7 | 43.1 | 46.5 | 49.6 | 52.2 | 53.9 | 44.5 | 55.7 | 52.0 | 45.0 | 39.3 |      |      |      |      |    |    |    |
| ( 748. RAD/SEC)    | 6300  | 44.4 | 40.4 | 43.3 | 46.1 | 49.1 | 50.7 | 50.5 | 50.1 | 48.0 | 41.8 | 38.8 |      |      |      |      |    |    |    |
| NFD 8823. MPH      | 8000  | 43.2 | 40.3 | 43.4 | 47.0 | 49.2 | 52.0 | 53.4 | 52.6 | 51.6 | 43.8 | 39.6 |      |      |      |      |    |    |    |
| ( 924. RAD/SEC)    | 10000 | 49.0 | 39.4 | 42.9 | 47.0 | 50.0 | 52.4 | 54.1 | 53.8 | 52.3 | 43.4 | 37.9 |      |      |      |      |    |    |    |
| NO. OF BLADES 15   | 12500 | 40.0 | 37.9 | 42.1 | 46.1 | 48.6 | 52.0 | 53.5 | 53.0 | 51.2 | 42.1 | 34.1 |      |      |      |      |    |    |    |
| FAN TIP SPEED      | 17000 | 35.4 | 32.8 | 36.7 | 40.4 | 44.6 | 48.4 | 49.0 | 48.2 | 44.4 | 33.4 | 28.1 |      |      |      |      |    |    |    |
| 600. FT/SEC        | 20000 | 29.3 | 27.9 | 33.6 | 38.0 | 42.0 | 43.8 | 45.8 | 44.9 | 40.7 | 27.7 | 18.2 |      |      |      |      |    |    |    |
|                    | 25000 | 21.6 | 21.6 | 26.5 | 31.3 | 35.2 | 37.4 | 37.3 | 38.0 | 31.2 | 15.9 |      |      |      |      |      |    |    |    |
|                    | 31500 | 8.6  | 10.6 | 17.7 | 24.3 | 27.8 | 28.7 | 28.5 | 29.1 | 17.1 |      |      |      |      |      |      |    |    |    |
|                    | 40000 |      |      |      | 5.8  | 9.4  | 11.5 | 10.5 | 5.4  |      |      |      |      |      |      |      |    |    |    |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |    |    |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |    |    |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |    |    |
| OVERALL CALCULATED | 47ER  | 62.7 | 64.0 | 65.4 | 66.8 | 68.2 | 69.5 | 70.1 | 69.5 | 68.5 | 66.2 | 62.2 |      |      |      |      |    |    |    |
|                    | PH00  | 72.5 | 73.0 | 75.3 | 77.8 | 78.9 | 81.8 | 81.8 | 81.3 | 80.3 | 79.8 | 80.3 |      |      |      |      |    |    |    |

↑  
10 kHz

ORIGINAL PAGE IS  
OF POOR QUALITY

|                    | FREQ.           | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.  | 0.  | 0.  | 0.  | 0.  | PdL   |
|--------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|-------|
|                    |                 | (0.92) | (1.06) | (1.24) | (1.41) | (1.58) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | (0. | (0. | (0. | (0. | (0. |       |
|                    | 50              |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
|                    | 63              |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
|                    | 80              |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
| RADIAL 17. FT.     | PC              |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
|                    | (% M)           | 100    | 74.0   | 71.4   | 72.6   | 72.4   | 72.9   | 73.9   | 74.1   | 73.9   | 76.0   | 83.1   | 86.9 |     |     |     |     |     | 112.8 |
| VEHICLE            | B-55            | 125    | 74.8   | 77.6   | 77.1   | 75.4   | 74.1   | 74.7   | 74.4   | 79.9   | 80.7   | 83.3   | 86.4 |     |     |     |     |     | 113.7 |
| CONFIG             | 9               | 160    | 74.8   | 74.9   | 75.1   | 75.2   | 74.6   | 76.7   | 74.1   | 78.9   | 81.5   | 84.8   | 86.6 |     |     |     |     |     | 113.8 |
| LOC                | SCHENECTADY     | 200    | 75.8   | 72.9   | 73.9   | 74.7   | 74.4   | 74.4   | 79.4   | 81.1   | 82.7   | 85.6   | 87.8 |     |     |     |     |     | 114.6 |
| DATE               | 12/5/74         | 250    | 77.0   | 77.6   | 74.6   | 79.1   | 70.9   | 81.4   | 82.1   | 83.9   | 84.2   | 86.3   | 87.3 |     |     |     |     |     | 116.9 |
| RUN                | 2777            | 315    | 78.5   | 79.4   | 79.9   | 79.9   | 80.1   | 81.2   | 81.6   | 81.9   | 82.7   | 85.1   | 86.3 |     |     |     |     |     | 119.9 |
| TAPE               |                 | 400    | 77.6   | 77.1   | 77.1   | 78.2   | 74.9   | 79.9   | 80.4   | 81.4   | 82.2   | 84.3   | 85.0 |     |     |     |     |     | 114.7 |
| BAR                | 30.1 MC         | 500    | 75.6   | 76.1   | 76.4   | 77.7   | 74.1   | 79.9   | 81.6   | 82.2   | 83.0   | 84.3   | 84.1 |     |     |     |     |     | 114.7 |
|                    | (01470. RPM2)   | 630    | 77.9   | 78.4   | 79.9   | 80.4   | 82.2   | 83.4   | 84.9   | 85.2   | 85.2   | 85.3   | 84.1 |     |     |     |     |     | 117.2 |
| TAMP               | 39. LFG F       | 800    | 82.4   | 80.9   | 81.6   | 82.4   | 83.6   | 85.7   | 85.8   | 86.2   | 85.7   | 85.3   | 83.9 |     |     |     |     |     | 116.5 |
|                    | (277. DEG #1)   | 1000   | 80.1   | 79.9   | 81.1   | 81.7   | 83.6   | 85.2   | 86.3   | 86.6   | 86.7   | 85.3   | 82.9 |     |     |     |     |     | 118.5 |
| TMET               | 34. LFG F       | 1250   | 79.2   | 76.9   | 78.1   | 80.3   | 81.9   | 84.2   | 86.1   | 85.6   | 86.5   | 85.4   | 82.4 |     |     |     |     |     | 117.7 |
|                    | (274. LFG #)    | 1600   | 77.7   | 74.9   | 74.4   | 78.6   | 80.2   | 82.0   | 84.1   | 83.2   | 83.2   | 82.1   | 80.6 |     |     |     |     |     | 115.3 |
| WACT               | 3.73 RPM3       | 2000   | 86.2   | 75.7   | 76.9   | 78.1   | 79.8   | 81.0   | 82.8   | 84.4   | 85.0   | 82.7   | 79.9 |     |     |     |     |     | 119.9 |
|                    | (.00373 RPM3)   | 2500   | 75.4   | 74.2   | 76.4   | 78.1   | 80.3   | 81.8   | 81.8   | 82.4   | 83.8   | 81.2   | 79.1 |     |     |     |     |     | 114.5 |
| NPA                | 7754. RPM       | 3150   | 74.0   | 73.8   | 75.6   | 78.2   | 80.1   | 82.5   | 83.3   | 83.1   | 85.3   | 81.4   | 78.6 |     |     |     |     |     | 119.4 |
|                    | ( #12. RAD/SEC) | 4000   | 74.9   | 78.5   | 78.4   | 81.2   | 84.0   | 86.0   | 86.5   | 85.6   | 87.2   | 83.4   | 80.3 |     |     |     |     |     | 116.3 |
| NPK                | 7508. RPM       | 5000   | 72.9   | 72.5   | 74.8   | 76.9   | 79.5   | 81.0   | 82.0   | 83.2   | 82.7   | 79.4   | 78.5 |     |     |     |     |     | 114.2 |
|                    | ( #20. RAD/SEC) | 6300   | 72.2   | 70.6   | 72.5   | 75.3   | 77.7   | 79.7   | 79.2   | 80.3   | 80.7   | 77.1   | 79.6 |     |     |     |     |     | 112.3 |
| NPD                | 4623. RPM       | 8000   | 72.2   | 71.5   | 72.9   | 76.1   | 78.1   | 80.9   | 83.8   | 83.3   | 84.1   | 79.1   | 81.0 |     |     |     |     |     | 114.8 |
|                    | ( #24. RAD/SEC) | 10000  | 73.0   | 72.4   | 74.9   | 77.9   | 81.2   | 83.3   | 85.8   | 86.6   | 87.2   | 81.6   | 83.4 |     |     |     |     |     | 117.6 |
| NO. OF BLADDS      | 15              | 12500  | 74.3   | 73.1   | 74.6   | 79.5   | 83.2   | 84.7   | 87.7   | 89.5   | 89.7   | 84.5   | 85.9 |     |     |     |     |     | 126.1 |
| PAN TIP SPEED      |                 | 16000  | 73.3   | 72.1   | 74.7   | 77.9   | 81.5   | 83.4   | 86.0   | 88.5   | 88.5   | 82.8   | 87.6 |     |     |     |     |     | 115.4 |
|                    | 677. F1/SEC     | 20000  | 73.5   | 72.9   | 75.6   | 79.8   | 83.1   | 85.5   | 88.1   | 90.8   | 91.0   | 85.0   | 89.8 |     |     |     |     |     | 122.0 |
|                    |                 | 24000  | 73.4   | 73.3   | 76.6   | 80.1   | 83.0   | 85.4   | 87.9   | 90.7   | 91.2   | 85.4   | 89.6 |     |     |     |     |     | 122.7 |
|                    |                 | 31500  | 73.5   | 74.3   | 77.2   | 81.8   | 84.7   | 87.2   | 89.0   | 90.0   | 90.7   | 84.6   | 87.6 |     |     |     |     |     | 123.6 |
|                    |                 | 40000  | 74.3   | 72.2   | 75.1   | 79.2   | 82.2   | 84.8   | 87.7   | 88.5   | 88.5   | 83.7   | 84.9 |     |     |     |     |     | 123.8 |
|                    |                 | 50000  | 76.4   | 89.3   | 72.0   | 73.8   | 74.7   | 79.8   | 82.8   | 82.8   | 82.6   | 79.7   | 81.5 |     |     |     |     |     | 119.0 |
|                    |                 | 63000  | 74.1   | 85.8   | 70.1   | 88.6   | 74.9   | 72.8   | 75.6   | 75.1   | 74.8   | 72.1   | 75.9 |     |     |     |     |     | 116.0 |
|                    |                 | 80000  | 73.1   | 67.7   | 69.3   | 66.5   | 67.3   | 67.7   | 69.2   | 68.6   | 68.6   | 67.3   | 71.9 |     |     |     |     |     | 115.0 |
| OVERALL MEASURED   |                 |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
| OVERALL CALCULATED |                 | 91.3   | 90.3   | 91.6   | 93.4   | 95.5   | 97.4   | 99.2   | 100.3  | 100.6  | 98.3   | 99.7   |      |     |     |     |     |     | 122.9 |
|                    | PdL             | 102.0  | 101.0  | 102.5  | 104.6  | 106.6  | 108.6  | 109.5  | 109.8  | 110.5  | 108.3  | 107.1  |      |     |     |     |     |     |       |

MODEL SOUND PRESSURE LEVELS (59. LEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INFLT IN DEGREES (ANG RADIANS)

|                    | 59.     | 62.     | 71.     | 81.     | 91.     | 101.    | 111.    | 122.    | 133.    | 145.    | 156.    | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|------|------|------|------|------|
| FREQ.              | (10.92) | (11.06) | (11.24) | (11.41) | (11.58) | (11.74) | (11.94) | (12.13) | (12.32) | (12.52) | (12.73) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) |
| SIDELINE 200. FT.  | 60      |         |         |         |         |         |         |         |         |         |         |      |      |      |      |      |      |
| VEHICLE R-55       | 125     | 53.0    | 54.6    | 55.0    | 53.6    | 54.5    | 54.4    | 56.1    | 56.8    | 56.2    | 56.7    | 56.1 |      |      |      |      |      |
| CONFIG 9           | 180     | 51.9    | 52.0    | 52.9    | 53.3    | 53.9    | 54.3    | 55.7    | 55.7    | 56.8    | 58.0    | 58.1 |      |      |      |      |      |
| LOC SCHEMATIC      | 200     | 51.9    | 49.9    | 51.6    | 52.7    | 54.6    | 54.7    | 56.9    | 57.8    | 58.0    | 58.0    | 57.2 |      |      |      |      |      |
| DATE 12/5/74       | 250     | 53.0    | 54.5    | 56.2    | 57.1    | 58.0    | 59.3    | 59.8    | 60.5    | 59.3    | 59.2    | 56.5 |      |      |      |      |      |
| RAY 27/7           | 315     | 54.4    | 56.2    | 57.4    | 57.8    | 58.2    | 59.0    | 59.0    | 58.4    | 57.7    | 47.8    | 55.2 |      |      |      |      |      |
| TAPE               | 400     | 53.2    | 53.9    | 54.6    | 56.0    | 56.9    | 56.7    | 57.6    | 57.8    | 57.1    | 56.9    | 54.3 |      |      |      |      |      |
| BAR 30.1 MC        | 500     | 51.2    | 52.8    | 53.7    | 55.4    | 56.0    | 57.6    | 59.8    | 58.4    | 57.7    | 56.8    | 52.5 |      |      |      |      |      |
| (101478. A/M2)     | 630     | 53.3    | 54.9    | 57.1    | 58.1    | 59.9    | 61.9    | 61.9    | 61.3    | 59.9    | 47.6    | 52.3 |      |      |      |      |      |
| TAMB 30. DPG F     | 800     | 57.7    | 57.3    | 58.7    | 60.0    | 61.3    | 63.2    | 62.8    | 62.2    | 60.2    | 47.4    | 51.7 |      |      |      |      |      |
| (1277. DPG F)      | 1000    | 55.3    | 56.1    | 59.1    | 59.1    | 61.2    | 62.6    | 63.2    | 62.5    | 61.0    | 57.2    | 50.4 |      |      |      |      |      |
| THEY 34. DPG F     | 1250    | 54.2    | 53.0    | 55.0    | 57.5    | 58.3    | 61.4    | 62.8    | 61.3    | 60.6    | 57.0    | 49.6 |      |      |      |      |      |
| (1274. DPG F)      | 1400    | 52.5    | 54.8    | 53.0    | 55.6    | 57.5    | 59.0    | 60.6    | 58.7    | 57.1    | 53.4    | 47.4 |      |      |      |      |      |
| WACT 3.73 RPM      | 2000    | 54.7    | 51.4    | 53.4    | 55.0    | 56.9    | 57.9    | 59.1    | 59.7    | 58.6    | 43.6    | 46.1 |      |      |      |      |      |
| (-00373. RPM)      | 2500    | 49.8    | 49.7    | 52.7    | 54.0    | 57.2    | 57.7    | 57.9    | 57.5    | 57.1    | 51.8    | 44.9 |      |      |      |      |      |
| MFA 7754. RPM      | 3150    | 48.9    | 46.9    | 51.6    | 54.6    | 54.7    | 58.9    | 59.1    | 57.9    | 58.3    | 51.6    | 43.7 |      |      |      |      |      |
| ( F12. RAD/SEC)    | 4000    | 49.4    | 51.2    | 53.9    | 57.2    | 60.2    | 62.0    | 61.9    | 60.0    | 59.6    | 52.0    | 44.3 |      |      |      |      |      |
| MFA 7900. RPM      | 5000    | 46.0    | 46.9    | 50.1    | 52.7    | 55.5    | 58.7    | 57.1    | 57.2    | 56.8    | 46.3    | 41.9 |      |      |      |      |      |
| ( F20. RAD/SEC)    | 6300    | 44.5    | 44.7    | 47.1    | 50.4    | 52.9    | 54.8    | 53.6    | 53.5    | 51.8    | 44.8    | 41.2 |      |      |      |      |      |
| MFD 8873. RPM      | 8000    | 43.0    | 43.9    | 46.3    | 50.1    | 52.3    | 54.8    | 57.0    | 55.2    | 53.7    | 44.9    | 39.7 |      |      |      |      |      |
| ( F24. RAD/SEC)    | 10000   | 41.4    | 43.6    | 46.7    | 50.8    | 53.9    | 55.7    | 57.4    | 56.6    | 54.7    | 44.7    | 38.2 |      |      |      |      |      |
| NO. OF BLADES 15   | 12500   | 40.1    | 41.3    | 44.0    | 49.7    | 53.6    | 54.9    | 56.9    | 56.9    | 54.1    | 43.7    | 35.0 |      |      |      |      |      |
| FAN TIP SPEED      | 15000   | 34.8    | 36.1    | 40.3    | 44.5    | 48.5    | 49.9    | 51.4    | 51.6    | 47.8    | 35.9    | 27.2 |      |      |      |      |      |
| 677. FT/SEC        | 20000   | 24.6    | 31.4    | 36.4    | 41.5    | 45.2    | 47.1    | 48.3    | 48.2    | 43.7    | 29.2    | 17.8 |      |      |      |      |      |
|                    | 25000   | 20.0    | 24.0    | 30.0    | 35.0    | 38.4    | 40.4    | 40.8    | 40.0    | 36.4    | 17.8    |      |      |      |      |      |      |
|                    | 31500   | 7.5     | 13.7    | 20.1    | 26.7    | 30.1    | 31.8    | 31.2    | 27.5    | 20.0    |         |      |      |      |      |      |      |
|                    | 40000   |         |         | 2.3     | 9.0     | 12.8    | 14.6    | 14.0    | 6.4     |         |         |      |      |      |      |      |      |
|                    | 50000   |         |         |         |         |         |         |         |         |         |         |      |      |      |      |      |      |
|                    | 60000   |         |         |         |         |         |         |         |         |         |         |      |      |      |      |      |      |
| OVERALL CALCULATED |         | 65.7    | 65.9    | 67.6    | 69.1    | 70.8    | 72.2    | 72.9    | 72.3    | 71.3    | 69.0    | 65.8 |      |      |      |      |      |
| PMDB               |         | 76.2    | 76.1    | 78.4    | 80.8    | 83.2    | 84.8    | 85.1    | 84.4    | 83.3    | 78.4    | 72.3 |      |      |      |      |      |

PAGE 1 FULL SCALE DATA (STATION) ... HOTEL SOUTH PASSPORT LEVELS (20% WIND, 70% PERCENTY REL. HUM., 10% ...)

|                     | 57    | 61   | 71   | 81   | 91   | 101  | 111  | 121  | 131  | 141  | 151  | 161  | 171  | 181  | 191  | 201  |
|---------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RADIAL 17. FT.      | 160   | 175  | 200  | 225  | 250  | 275  | 300  | 325  | 350  | 375  | 400  | 425  | 450  | 475  | 500  | 525  |
| VEHICLE             | 47.5  | 48.5 | 50.0 | 51.5 | 53.0 | 54.5 | 56.0 | 57.5 | 59.0 | 60.5 | 62.0 | 63.5 | 65.0 | 66.5 | 68.0 | 69.5 |
| COEFFIC             | 47.7  | 48.1 | 49.0 | 49.8 | 50.6 | 51.4 | 52.2 | 53.0 | 53.8 | 54.6 | 55.4 | 56.2 | 57.0 | 57.8 | 58.6 | 59.4 |
| LCC SCHEDULE        | 49.7  | 53.3 | 53.5 | 54.7 | 56.0 | 57.3 | 58.6 | 59.9 | 61.2 | 62.5 | 63.8 | 65.1 | 66.4 | 67.7 | 69.0 | 70.3 |
| DATE 12/6/74        | 45.7  | 45.8 | 46.3 | 47.3 | 48.2 | 49.2 | 50.2 | 51.1 | 52.0 | 52.9 | 53.8 | 54.7 | 55.6 | 56.5 | 57.4 | 58.3 |
| RUN 30/5            | 45.2  | 45.8 | 50.3 | 45.1 | 46.7 | 44.8 | 46.7 | 44.0 | 46.7 | 45.5 | 46.7 | 45.5 | 47.3 | 46.5 | 47.3 | 48.1 |
| TYPE                | 45.2  | 46.1 | 63.0 | 45.1 | 43.9 | 44.3 | 44.5 | 45.7 | 45.2 | 45.2 | 46.5 | 46.5 | 47.8 | 47.8 | 49.1 | 49.1 |
| BAR 30.1 MS         | 500   | 44.3 | 45.9 | 44.1 | 43.5 | 44.8 | 44.0 | 45.2 | 43.7 | 45.7 | 45.1 | 46.4 | 45.9 | 47.2 | 46.7 | 48.0 |
| (01560. W/M2)       | 630   | 45.3 | 46.4 | 46.4 | 46.4 | 46.5 | 47.3 | 48.2 | 49.1 | 50.0 | 50.9 | 51.8 | 52.7 | 53.6 | 54.5 | 55.4 |
| TAMB 43. DEG F      | 800   | 51.8 | 51.4 | 53.3 | 49.4 | 50.2 | 50.1 | 52.0 | 50.7 | 50.4 | 51.7 | 51.8 | 53.1 | 53.2 | 54.5 | 54.6 |
| (276. DEG K)        | 1000  | 45.8 | 46.6 | 46.9 | 44.4 | 44.5 | 45.3 | 45.5 | 45.6 | 46.4 | 46.4 | 47.2 | 47.3 | 48.1 | 48.1 | 48.9 |
| T-ET 41. DEG F      | 1200  | 44.6 | 45.6 | 46.3 | 43.9 | 43.3 | 43.6 | 44.7 | 43.9 | 43.7 | 43.3 | 44.3 | 44.3 | 45.3 | 45.3 | 46.3 |
| (276. DEG K)        | 1400  | 44.6 | 45.1 | 45.9 | 44.0 | 42.9 | 43.3 | 43.7 | 44.1 | 42.9 | 43.0 | 44.0 | 44.1 | 45.1 | 45.1 | 46.1 |
| MACT 6.20 G/M2      | 2000  | 44.4 | 46.4 | 46.5 | 44.7 | 43.5 | 44.1 | 44.5 | 44.6 | 43.2 | 43.8 | 43.8 | 44.8 | 44.8 | 45.8 | 45.8 |
| (4000.20 G/M2)      | 2500  | 45.6 | 46.9 | 47.2 | 45.5 | 44.3 | 44.6 | 45.7 | 45.1 | 44.7 | 44.5 | 45.5 | 45.5 | 46.5 | 46.5 | 47.5 |
| NFA 5. RPM          | 3150  | 45.3 | 46.9 | 47.4 | 45.8 | 44.6 | 45.3 | 45.9 | 45.6 | 44.4 | 44.5 | 45.5 | 45.5 | 46.5 | 46.5 | 47.5 |
| ( 1. RPM/SEC)       | 4000  | 46.7 | 48.4 | 48.4 | 46.5 | 45.8 | 46.5 | 46.6 | 47.2 | 45.1 | 45.2 | 46.2 | 46.2 | 47.2 | 47.2 | 48.2 |
| NFK 5. RPM          | 5000  | 47.9 | 47.3 | 49.6 | 47.7 | 47.3 | 47.2 | 47.5 | 47.2 | 46.8 | 47.2 | 47.2 | 48.2 | 48.2 | 49.2 | 49.2 |
| ( 1. RPM/SEC)       | 6300  | 49.2 | 50.9 | 51.5 | 49.4 | 48.3 | 48.7 | 48.7 | 48.7 | 47.5 | 47.5 | 48.5 | 48.5 | 49.5 | 49.5 | 50.5 |
| NFD 8023. RPM       | 8000  | 46.7 | 51.8 | 51.8 | 50.3 | 49.3 | 49.0 | 50.5 | 49.9 | 49.1 | 49.3 | 50.3 | 50.3 | 51.3 | 51.3 | 52.3 |
| ( 924. RPM/SEC)     | 10000 | 51.5 | 52.5 | 52.4 | 51.4 | 50.7 | 50.7 | 51.5 | 51.4 | 49.7 | 51.5 | 51.5 | 52.5 | 52.5 | 53.5 | 53.5 |
| NO. OF BLADES IS    | 12500 | 53.6 | 54.5 | 53.0 | 53.1 | 52.7 | 52.3 | 52.3 | 52.2 | 51.4 | 52.1 | 52.1 | 53.1 | 53.1 | 54.1 | 54.1 |
| FAN TIP SPEED       | 16000 | 54.1 | 55.2 | 54.7 | 54.5 | 53.5 | 53.4 | 52.9 | 53.2 | 52.6 | 52.6 | 53.6 | 53.6 | 54.6 | 54.6 | 55.6 |
| 0. FT/SEC           | 20000 | 55.1 | 56.0 | 55.9 | 55.4 | 54.4 | 54.0 | 53.5 | 54.3 | 53.5 | 53.5 | 54.5 | 54.5 | 55.5 | 55.5 | 56.5 |
|                     | 25000 | 56.1 | 57.6 | 56.5 | 57.2 | 55.7 | 54.1 | 55.1 | 54.3 | 53.3 | 53.4 | 54.4 | 54.4 | 55.4 | 55.4 | 56.4 |
|                     | 31500 | 55.6 | 56.9 | 56.7 | 56.4 | 55.4 | 54.9 | 54.5 | 54.2 | 53.3 | 53.3 | 54.3 | 54.3 | 55.3 | 55.3 | 56.3 |
|                     | 40000 | 56.6 | 56.4 | 57.6 | 56.5 | 54.7 | 55.0 | 55.0 | 54.6 | 53.1 | 53.1 | 54.1 | 54.1 | 55.1 | 55.1 | 56.1 |
|                     | 50000 | 58.1 | 57.3 | 54.9 | 57.7 | 56.4 | 55.3 | 56.5 | 55.5 | 54.8 | 55.1 | 56.1 | 56.1 | 57.1 | 57.1 | 58.1 |
|                     | 63000 | 55.8 | 56.1 | 59.3 | 57.5 | 56.3 | 56.5 | 57.6 | 55.8 | 54.7 | 55.1 | 56.1 | 56.1 | 57.1 | 57.1 | 58.1 |
|                     | 80000 | 57.5 | 53.3 | 57.0 | 54.5 | 53.3 | 53.4 | 54.7 | 52.9 | 52.3 | 53.1 | 53.1 | 54.1 | 54.1 | 55.1 | 55.1 |
| OVERALL MEASUREMENT |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| OVERALL CALCULATED  | 67.1  | 67.2 | 71.6 | 64.9 | 55.9 | 65.6 | 66.2 | 65.8 | 65.4 | 66.3 | 67.8 | 67.8 | 68.8 | 68.8 | 69.8 | 69.8 |
| PRICE               | 72.2  | 73.6 | 77.3 | 72.2 | 71.4 | 71.0 | 72.1 | 72.5 | 71.3 | 72.1 | 73.6 | 73.6 | 74.6 | 74.6 | 75.6 | 75.6 |

|                    | 50   | 100  | 200  | 400  | 800  | 1600 | 3150 | 6300 | 12600 | 25200 | 50400 | 100800 |
|--------------------|------|------|------|------|------|------|------|------|-------|-------|-------|--------|
| SIDELINE 230 FT    | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0  | 20.0  | 20.0  | 20.0   |
| VEHICLE 6000       | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5  | 21.5  | 21.5  | 21.5   |
| COFFIC 50          | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5  | 23.5  | 23.5  | 23.5   |
| LIC SCHE-ECTAR     | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0  | 20.0  | 20.0  | 20.0   |
| DATE 12/27/74      | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0  | 21.0  | 21.0  | 21.0   |
| RUN 30/5           | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5  | 21.5  | 21.5  | 21.5   |
| TYPE 400           | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0  | 21.0  | 21.0  | 21.0   |
| GAR 3001 40        | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0  | 20.0  | 20.0  | 20.0   |
| (015) 40 40/21     | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0  | 20.0  | 20.0  | 20.0   |
| TAMP 43 400 F      | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0  | 22.0  | 22.0  | 22.0   |
| (27) 40 40 F       | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0  | 21.0  | 21.0  | 21.0   |
| T-CT 41 400 F      | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0  | 22.0  | 22.0  | 22.0   |
| (27) 40 40 F       | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0  | 21.0  | 21.0  | 21.0   |
| MACT 61 40 40/3    | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0  | 21.0  | 21.0  | 21.0   |
| (100) 40 40/3      | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0  | 21.0  | 21.0  | 21.0   |
| MFA 50 400         | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0  | 21.0  | 21.0  | 21.0   |
| (100) 40/3         | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0  | 21.0  | 21.0  | 21.0   |
| MFX 50 400         | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0  | 21.0  | 21.0  | 21.0   |
| (100) 40/3         | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0  | 21.0  | 21.0  | 21.0   |
| MFC 8423 400       | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7  | 20.7  | 20.7  | 20.7   |
| (100) 40/3         | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7  | 20.7  | 20.7  | 20.7   |
| (100) 40/3         | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7  | 20.7  | 20.7  | 20.7   |
| WC OF GLASS 15     | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0  | 23.0  | 23.0  | 23.0   |
| FAR TIP SCISS      | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4  | 10.4  | 10.4  | 10.4   |
| U. FT/SEC          | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5   | 2.5   | 2.5   | 2.5    |
| 25000              | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5   | 2.5   | 2.5   | 2.5    |
| 31500              | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2   | 1.2   | 1.2   | 1.2    |
| 4500               | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8   | 0.8   | 0.8   | 0.8    |
| 5000               | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8   | 0.8   | 0.8   | 0.8    |
| 6300               | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8   | 0.8   | 0.8   | 0.8    |
| 8000               | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8   | 0.8   | 0.8   | 0.8    |
| OVERALL CALCULATED | 35.4 | 37.7 | 47.5 | 37.4 | 38.2 | 37.3 | 38.4 | 37.4 | 36.2  | 35.5  | 36.5  | 36.5   |
| PMCU               | 41.8 | 45.4 | 52.3 | 45.3 | 44.4 | 44.8 | 44.5 | 43.4 | 39.1  | 39.8  | 29.4  |        |

ORIGINAL PAGE IS OF POOR QUALITY

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|                         | 53    | 54   | 74   | 75   | 76   | 77   | 78   | 79   | 80   | 81   | 82   | 83   | 84 | 85 | 86 | 87 | 88 | 89 | 90    |
|-------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|-------|
| RADIA 17. FT.           | 170   | 55.5 | 52.6 | 53.5 | 54.6 | 54.7 | 55.8 | 52.4 | 51.2 | 47.0 | 44.5 | 47.5 |    |    |    |    |    |    | 60.7  |
| VEHICLE 9-SS            | 125   | 48.2 | 45.8 | 42.3 | 51.6 | 51.7 | 56.4 | 47.3 | 47.9 | 49.2 | 53.5 | 51.5 |    |    |    |    |    |    | 84.8  |
| COEFFIC 64              | 180   | 45.5 | 53.1 | 54.9 | 51.8 | 48.4 | 47.5 | 48.4 | 46.6 | 49.6 | 51.5 | 52.1 |    |    |    |    |    |    | 88.9  |
| LCC SCHEMATIC           | 220   | 47.7 | 57.1 | 56.3 | 56.1 | 58.7 | 57.4 | 57.7 | 57.7 | 58.4 | 61.7 | 63.6 |    |    |    |    |    |    | 53.9  |
| DATE 12/8/74            | 270   | 45.4 | 47.5 | 47.5 | 47.7 | 47.7 | 47.2 | 47.3 | 47.2 | 46.1 | 45.7 | 46.3 |    |    |    |    |    |    | 63.7  |
| REL 35/5                | 315   | 45.7 | 45.2 | 46.3 | 47.9 | 46.4 | 45.9 | 44.7 | 45.7 | 44.7 | 45.7 | 47.6 |    |    |    |    |    |    | 70.6  |
| TYPE                    | 400   | 45.6 | 45.6 | 46.8 | 47.5 | 48.2 | 45.8 | 44.4 | 45.9 | 45.8 | 45.7 | 46.3 |    |    |    |    |    |    | 70.9  |
| GAR 30-1 AG             | 500   | 44.5 | 45.1 | 46.8 | 46.4 | 43.2 | 45.3 | 44.7 | 45.4 | 43.7 | 45.7 | 46.1 |    |    |    |    |    |    | 79.2  |
| (15/40 17/2)            | 630   | 45.5 | 46.3 | 46.9 | 47.4 | 46.7 | 45.0 | 45.5 | 46.2 | 44.6 | 47.2 | 47.3 |    |    |    |    |    |    | 60.2  |
| TAPO 43. SEC F          | 650   | 52.6 | 51.1 | 53.3 | 49.5 | 50.5 | 49.3 | 51.4 | 56.7 | 51.2 | 51.3 | 52.6 |    |    |    |    |    |    | 85.2  |
| (270. SEC F)            | 1000  | 45.8 | 46.9 | 47.3 | 46.8 | 44.5 | 44.6 | 46.4 | 45.7 | 44.4 | 43.5 | 46.1 |    |    |    |    |    |    | 78.7  |
| TAET 41. SEC F          | 1200  | 44.3 | 45.4 | 46.6 | 47.8 | 43.3 | 43.3 | 43.7 | 44.4 | 42.4 | 44.3 | 44.5 |    |    |    |    |    |    | 78.4  |
| (270. SEC F)            | 1700  | 44.3 | 45.4 | 46.6 | 44.3 | 43.3 | 43.0 | 43.7 | 44.1 | 42.4 | 43.3 | 44.9 |    |    |    |    |    |    | 78.2  |
| MACT 6.20 CM/MS         | 2000  | 44.6 | 46.2 | 46.2 | 44.9 | 43.5 | 44.3 | 44.5 | 44.4 | 43.4 | 43.5 | 44.5 |    |    |    |    |    |    | 78.8  |
| (3000 CM/MS)            | 2500  | 45.5 | 46.9 | 47.5 | 47.8 | 46.4 | 45.1 | 45.4 | 45.4 | 43.7 | 44.5 | 45.4 |    |    |    |    |    |    | 78.6  |
| MFA 5. 40N              | 3100  | 46.1 | 47.4 | 47.7 | 47.9 | 46.3 | 45.3 | 45.4 | 46.1 | 44.7 | 44.5 | 45.4 |    |    |    |    |    |    | 80.1  |
| (5. 40N/3EC)            | 4600  | 49.7 | 48.4 | 49.4 | 49.3 | 48.3 | 46.3 | 46.6 | 47.6 | 45.3 | 46.2 | 47.2 |    |    |    |    |    |    | 81.1  |
| NFK 5. 40N              | 5200  | 47.9 | 47.3 | 48.3 | 47.7 | 47.3 | 47.2 | 44.8 | 46.2 | 46.5 | 47.2 | 48.1 |    |    |    |    |    |    | 82.2  |
| (5. 40N/3SEC)           | 6300  | 49.5 | 50.6 | 51.8 | 49.4 | 49.5 | 48.5 | 49.6 | 49.5 | 47.8 | 48.8 | 49.7 |    |    |    |    |    |    | 83.7  |
| NFA 4023. 40N           | 8000  | 51.4 | 52.6 | 51.8 | 51.3 | 49.5 | 49.1 | 50.2 | 50.2 | 48.6 | 49.8 | 50.0 |    |    |    |    |    |    | 84.7  |
| (5200 40N/3FF/11000)    | 11000 | 51.6 | 53.1 | 53.8 | 51.9 | 50.6 | 51.7 | 50.7 | 51.4 | 50.7 | 51.5 | 51.7 |    |    |    |    |    |    | 86.0  |
| NO. OF PLATES 15 1200   | 12000 | 53.3 | 54.3 | 54.4 | 53.1 | 52.2 | 52.9 | 52.6 | 52.2 | 51.8 | 51.9 | 53.1 |    |    |    |    |    |    | 87.7  |
| FAN TIP SPEED 6. FT/SEC | 16000 | 54.3 | 54.7 | 54.7 | 54.3 | 53.4 | 53.2 | 52.9 | 52.7 | 52.4 | 53.4 | 53.8 |    |    |    |    |    |    | 88.8  |
|                         | 20000 | 55.3 | 55.3 | 55.4 | 55.4 | 54.9 | 54.6 | 53.8 | 54.3 | 53.2 | 53.4 | 54.3 |    |    |    |    |    |    | 89.2  |
|                         | 25000 | 56.1 | 57.6 | 57.1 | 57.7 | 56.7 | 56.3 | 55.1 | 54.7 | 53.3 | 53.4 | 54.5 |    |    |    |    |    |    | 91.0  |
|                         | 31500 | 56.4 | 57.1 | 56.7 | 56.2 | 54.9 | 54.9 | 54.7 | 54.4 | 53.5 | 54.3 | 54.2 |    |    |    |    |    |    | 92.9  |
|                         | 40000 | 55.3 | 56.7 | 57.2 | 57.1 | 55.2 | 54.4 | 54.7 | 54.2 | 53.3 | 53.7 | 53.8 |    |    |    |    |    |    | 93.8  |
|                         | 50000 | 55.1 | 56.7 | 59.1 | 57.5 | 56.2 | 57.3 | 56.5 | 55.5 | 54.6 | 55.1 | 55.5 |    |    |    |    |    |    | 97.8  |
|                         | 70000 | 56.9 | 56.1 | 56.5 | 56.7 | 56.5 | 56.3 | 56.7 | 56.1 | 54.2 | 54.5 | 54.6 |    |    |    |    |    |    | 98.6  |
|                         | 80000 | 57.3 | 53.8 | 56.4 | 56.3 | 53.6 | 53.7 | 54.4 | 53.1 | 52.7 | 53.1 | 52.2 |    |    |    |    |    |    | 101.3 |
| OVERALL MEASURED        |       |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |       |
| OVERALL CALCULATED      | 67.3  | 67.4 | 68.4 | 67.1 | 66.5 | 65.9 | 66.4 | 65.9 | 65.5 | 66.4 | 66.6 |      |    |    |    |    |    |    |       |
| FROM                    | 72.4  | 73.7 | 74.3 | 77.5 | 71.9 | 71.0 | 72.4 | 72.6 | 71.6 | 72.3 | 72.9 |      |    |    |    |    |    |    |       |

MODEL NUMBER 10000 10000 10000  
 MODEL 1000  
 MODEL 1000 10000 10000 10000

| SITE/ILE         | 200 FT. | 100 FT. | 50 FT. | 25 FT. | 12.5 FT. | 6.25 FT. | 3.125 FT. | 1.5625 FT. | 0.78125 FT. | 0.390625 FT. | 0.1953125 FT. | 0.09765625 FT. | 0.048828125 FT. | 0.0244140625 FT. | 0.01220703125 FT. |
|------------------|---------|---------|--------|--------|----------|----------|-----------|------------|-------------|--------------|---------------|----------------|-----------------|------------------|-------------------|
| VEHICLE #99      | 129     | 25.8    | 27.5   | 31.4   | 35.5     | 39.5     | 44.0      | 48.5       | 53.1        | 57.5         | 62.0          | 66.5           | 71.0            | 75.5             | 80.0              |
| CONFIG #1        | 160     | 24.1    | 27.2   | 31.3   | 35.4     | 39.5     | 44.0      | 48.5       | 53.1        | 57.5         | 62.0          | 66.5           | 71.0            | 75.5             | 80.0              |
| LCC SCHE-ECTAFY  | 210     | 22.5    | 23.1   | 23.7   | 24.3     | 24.9     | 25.5      | 26.1       | 26.7        | 27.3         | 27.9          | 28.5           | 29.1            | 29.7             | 30.3              |
| BAYE 1275/74     | 230     | 22.4    | 24.1   | 25.8   | 27.5     | 29.2     | 30.9      | 32.6       | 34.3        | 36.0         | 37.7          | 39.4           | 41.1            | 42.8             | 44.5              |
| R.1. 30/6        | 315     | 22.3    | 27.7   | 25.3   | 24.3     | 22.5     | 22.0      | 22.1       | 22.1        | 22.1         | 22.1          | 22.1           | 22.1            | 22.1             | 22.1              |
| TYPE             | 400     | 27.7    | 27.5   | 27.2   | 27.0     | 26.8     | 26.6      | 26.4       | 26.2        | 26.0         | 25.8          | 25.6           | 25.4            | 25.2             | 25.0              |
| BAF 3001 #4      | 500     | 22.1    | 22.7   | 24.1   | 27.1     | 30.1     | 33.1      | 36.1       | 39.1        | 42.1         | 45.1          | 48.1           | 51.1            | 54.1             | 57.1              |
| (01584. 2/12)    | 600     | 21.3    | 23.1   | 24.3   | 26.0     | 27.7     | 29.4      | 31.1       | 32.8        | 34.5         | 36.2          | 37.9           | 39.6            | 41.3             | 43.0              |
| YAB 43 TEG F     | 800     | 22.4    | 22.5   | 23.0   | 23.5     | 24.0     | 24.5      | 25.0       | 25.5        | 26.0         | 26.5          | 27.0           | 27.5            | 28.0             | 28.5              |
| 1270. EG #1      | 1000    | 20.7    | 20.7   | 20.7   | 20.7     | 20.7     | 20.7      | 20.7       | 20.7        | 20.7         | 20.7          | 20.7           | 20.7            | 20.7             | 20.7              |
| T-EL 41.0 TEG F  | 1200    | 17.2    | 21.0   | 22.5   | 24.0     | 25.5     | 27.0      | 28.5       | 30.0        | 31.5         | 33.0          | 34.5           | 36.0            | 37.5             | 39.0              |
| 1270. EG #1      | 1400    | 17.1    | 21.3   | 22.4   | 24.1     | 25.8     | 27.5      | 29.2       | 30.9        | 32.6         | 34.3          | 36.0           | 37.7            | 39.4             | 41.1              |
| HACT 82C 2/27    | 2000    | 17.1    | 21.4   | 22.7   | 24.4     | 26.1     | 27.8      | 29.5       | 31.2        | 32.9         | 34.6          | 36.3           | 38.0            | 39.7             | 41.4              |
| 100020 26/21     | 2500    | 17.0    | 22.8   | 23.3   | 24.8     | 26.3     | 27.8      | 29.3       | 30.8        | 32.3         | 33.8          | 35.3           | 36.8            | 38.3             | 39.8              |
| MFA 5. APP       | 3150    | 22.0    | 22.6   | 23.7   | 25.3     | 26.9     | 28.5      | 30.1       | 31.7        | 33.3         | 34.9          | 36.5           | 38.1            | 39.7             | 41.3              |
| 1. 247/SEC       | 4000    | 23.2    | 23.1   | 23.9   | 24.5     | 25.1     | 25.7      | 26.3       | 26.9        | 27.5         | 28.1          | 28.7           | 29.3            | 29.9             | 30.5              |
| MFC 5. APP       | 5000    | 21.1    | 23.6   | 24.6   | 25.5     | 26.5     | 27.5      | 28.5       | 29.5        | 30.5         | 31.5          | 32.5           | 33.5            | 34.5             | 35.5              |
| 1. 247/SEC       | 6300    | 21.7    | 24.2   | 25.6   | 26.8     | 28.2     | 29.6      | 31.0       | 32.4        | 33.8         | 35.2          | 36.6           | 38.0            | 39.4             | 40.8              |
| MFC 8023. APP    | 8000    | 21.2    | 24.4   | 25.2   | 26.3     | 27.7     | 29.0      | 30.4       | 31.8        | 33.2         | 34.6          | 36.0           | 37.4            | 38.8             | 40.2              |
| 1 024. 247/SEC   | 13000   | 21.6    | 23.7   | 24.6   | 25.5     | 26.4     | 27.3      | 28.2       | 29.1        | 30.0         | 30.9          | 31.8           | 32.7            | 33.6             | 34.5              |
| NO. OF GLAZES 1" | 12500   | 19.9    | 22.2   | 23.3   | 24.4     | 25.5     | 26.6      | 27.7       | 28.8        | 29.9         | 31.0          | 32.1           | 33.2            | 34.3             | 35.4              |
| PA. TIP SPFC     | 14000   | 18.8    | 18.7   | 23.4   | 24.6     | 25.8     | 27.0      | 28.2       | 29.4        | 30.6         | 31.8          | 33.0           | 34.2            | 35.4             | 36.6              |
| 0. FT/SEC        | 20000   | 12.7    | 14.6   | 16.3   | 17.2     | 17.8     | 18.4      | 19.0       | 19.6        | 20.2         | 20.8          | 21.4           | 22.0            | 22.6             | 23.2              |
| 25000            | 2.0     | 2.3     | 2.2    | 2.1    | 2.0      | 1.9      | 1.8       | 1.7        | 1.6         | 1.5          | 1.4           | 1.3            | 1.2             | 1.1              | 1.0               |
| 31500            |         |         |        |        | 1.6      | 0.3      |           |            |             |              |               |                |                 |                  |                   |
| 40000            |         |         |        |        |          |          |           |            |             |              |               |                |                 |                  |                   |
| 50000            |         |         |        |        |          |          |           |            |             |              |               |                |                 |                  |                   |
| 60000            |         |         |        |        |          |          |           |            |             |              |               |                |                 |                  |                   |
| 70000            |         |         |        |        |          |          |           |            |             |              |               |                |                 |                  |                   |
| 80000            |         |         |        |        |          |          |           |            |             |              |               |                |                 |                  |                   |
| OVERALL CALC.    | AVE     | 35.4    | 26.8   | 28.4   | 29.8     | 30.7     | 31.6      | 32.1       | 32.8        | 33.5         | 34.2          | 34.9           | 35.6            | 36.3             | 37.0              |
| PRICE            |         | 41.2    | 23.5   | 27.8   | 25.4     | 24.0     | 22.0      | 21.0       | 20.5        | 20.0         | 19.5          | 19.0           | 18.5            | 18.0             | 17.5              |

PAGE 1 FULL SCALE 17.5 FT. ...

|                       |        | 33  | 34   | 35   | 36   | 37   | 38   | 39   | 40    | 41    | 42    | 43   | 44   | 45 | 46 | 47 | 48 | 49 | 50    |
|-----------------------|--------|-----|------|------|------|------|------|------|-------|-------|-------|------|------|----|----|----|----|----|-------|
| DATA 17.5 FT.         |        |     |      |      |      |      |      |      |       |       |       |      |      |    |    |    |    |    |       |
| VEHICLE               | 1 30.0 | 128 | 77.4 | 70.1 | 62.8 | 69.7 | 80.1 | 61.7 | 79.6  | 73.2  | 60.8  | 73.4 | 75.6 |    |    |    |    |    | 119.0 |
| CS-FIG                | 1 30.0 | 128 | 67.5 | 65.6 | 71.3 | 67.4 | 69.1 | 67.7 | 67.1  | 69.6  | 71.6  | 72.3 | 74.8 |    |    |    |    |    | 163.0 |
| L/C SC-ELECT          | 2 30.0 | 128 | 64.3 | 65.4 | 65.0 | 67.4 | 69.4 | 69.6 | 76.9  | 75.7  | 73.0  | 79.1 | 75.6 |    |    |    |    |    | 163.3 |
| DATE 12/6/74          | 2 30.0 | 128 | 67.5 | 64.1 | 69.9 | 69.4 | 70.1 | 69.9 | 71.6  | 71.5  | 73.1  | 74.3 | 78.7 |    |    |    |    |    | 163.3 |
| R/W 30.0              | 2 30.0 | 128 | 57.7 | 70.7 | 71.4 | 71.4 | 71.7 | 71.9 | 72.1  | 72.4  | 73.3  | 74.2 | 74.3 |    |    |    |    |    | 168.3 |
| DATE                  | 4 30.0 | 128 | 67.3 | 69.7 | 69.9 | 72.2 | 72.4 | 71.0 | 71.9  | 72.4  | 73.3  | 74.2 | 74.3 |    |    |    |    |    | 168.7 |
| BAR 30.0 1/2          | 2 30.0 | 128 | 67.3 | 69.1 | 79.4 | 78.4 | 79.9 | 72.6 | 74.6  | 75.2  | 75.2  | 79.2 | 89.9 |    |    |    |    |    | 169.1 |
| 101924. 2/21          | 2 30.0 | 128 | 74.6 | 71.4 | 72.8 | 74.2 | 72.8 | 72.7 | 72.2  | 72.2  | 71.7  | 72.3 | 73.0 |    |    |    |    |    | 170.2 |
| YARD 60.0 200 F       | 2 30.0 | 128 | 74.7 | 74.3 | 75.1 | 76.7 | 77.7 | 79.0 | 80.1  | 79.6  | 80.1  | 80.1 | 79.6 |    |    |    |    |    | 174.0 |
| 1211. 200 F           | 2 30.0 | 128 | 72.3 | 73.1 | 73.9 | 75.5 | 77.4 | 78.7 | 80.9  | 81.6  | 82.2  | 83.3 | 77.6 |    |    |    |    |    | 174.4 |
| TRCT 40.0 200 F       | 2 30.0 | 128 | 73.7 | 74.7 | 74.6 | 76.7 | 81.7 | 84.9 | 86.3  | 86.6  | 87.7  | 87.6 | 86.1 |    |    |    |    |    | 177.7 |
| 1270. 200 F           | 2 30.0 | 128 | 67.3 | 67.7 | 71.2 | 77.7 | 77.5 | 79.7 | 81.3  | 81.1  | 79.1  | 79.1 | 76.4 |    |    |    |    |    | 176.4 |
| NACT 50.0 200 F       | 2 30.0 | 128 | 63.4 | 64.9 | 66.1 | 69.1 | 69.3 | 71.0 | 71.7  | 72.6  | 73.7  | 74.1 | 69.0 |    |    |    |    |    | 164.0 |
| 106305 200 F          | 2 30.0 | 128 | 64.7 | 65.5 | 67.2 | 68.6 | 71.7 | 73.5 | 74.4  | 75.1  | 76.1  | 76.4 | 76.1 |    |    |    |    |    | 167.6 |
| NFA 55.0 200 F        | 2 30.0 | 128 | 68.1 | 69.3 | 69.3 | 69.4 | 70.3 | 70.7 | 75.7  | 75.1  | 76.1  | 77.0 | 76.0 |    |    |    |    |    | 167.7 |
| 1 570. 200 F          | 2 30.0 | 128 | 63.6 | 65.4 | 66.7 | 67.7 | 71.7 | 73.3 | 74.7  | 75.7  | 77.2  | 77.1 | 76.7 |    |    |    |    |    | 167.5 |
| NFK 55.0 200 F        | 2 30.0 | 128 | 61.5 | 62.4 | 64.2 | 65.7 | 67.9 | 70.4 | 72.6  | 74.7  | 76.4  | 77.3 | 67.7 |    |    |    |    |    | 164.0 |
| 1 586. 200 F          | 2 30.0 | 128 | 61.9 | 61.7 | 62.2 | 63.7 | 65.8 | 67.9 | 71.5  | 71.5  | 73.1  | 69.7 | 69.2 |    |    |    |    |    | 162.2 |
| NFC 60.0 200 F        | 2 30.0 | 128 | 62.7 | 62.7 | 63.7 | 67.5 | 67.7 | 70.5 | 72.7  | 76.2  | 76.4  | 74.2 | 68.4 |    |    |    |    |    | 160.4 |
| 1 624. 200 F          | 2 30.0 | 128 | 63.2 | 62.7 | 67.2 | 67.5 | 69.5 | 72.6 | 75.4  | 77.2  | 79.1  | 75.7 | 76.7 |    |    |    |    |    | 166.2 |
| NO. OF LINES 15 120.9 | 2 30.0 | 128 | 67.7 | 64.6 | 65.6 | 67.3 | 72.9 | 74.2 | 74.7  | 76.2  | 67.5  | 74.3 | 77.1 |    |    |    |    |    | 170.3 |
| PA 111 200 F          | 2 30.0 | 128 | 67.3 | 68.7 | 67.7 | 68.7 | 69.5 | 72.7 | 73.2  | 77.8  | 80.1  | 74.5 | 71.4 |    |    |    |    |    | 165.4 |
| 402. FT/SEC           | 2 30.0 | 128 | 67.7 | 67.7 | 67.4 | 67.7 | 71.5 | 72.9 | 77.5  | 79.6  | 81.1  | 79.1 | 77.0 |    |    |    |    |    | 171.4 |
| 550.0                 | 2 30.0 | 128 | 64.3 | 65.3 | 66.2 | 67.3 | 71.3 | 74.1 | 76.4  | 76.9  | 80.7  | 79.7 | 75.4 |    |    |    |    |    | 171.1 |
| 715.0                 | 2 30.0 | 128 | 64.2 | 64.4 | 66.0 | 67.7 | 73.7 | 75.5 | 77.4  | 80.1  | 80.8  | 77.4 | 76.7 |    |    |    |    |    | 170.6 |
| 829.0                 | 2 30.0 | 128 | 68.2 | 69.1 | 69.2 | 69.5 | 70.7 | 73.3 | 75.5  | 77.5  | 76.7  | 76.8 | 68.3 |    |    |    |    |    | 172.3 |
| 929.0                 | 2 30.0 | 128 | 68.4 | 69.4 | 67.9 | 69.2 | 69.5 | 69.7 | 72.3  | 71.9  | 73.0  | 72.1 | 64.4 |    |    |    |    |    | 170.3 |
| 939.0                 | 2 30.0 | 128 | 73.6 | 65.3 | 67.4 | 64.4 | 67.5 | 67.0 | 69.7  | 67.2  | 66.4  | 66.8 | 64.0 |    |    |    |    |    | 171.2 |
| 960.0                 | 2 30.0 | 128 | 72.9 | 68.7 | 71.7 | 68.7 | 68.6 | 68.4 | 69.6  | 68.4  | 67.3  | 69.2 | 66.5 |    |    |    |    |    | 170.4 |
| OVERALL MEASURED      |        |     |      |      |      |      |      |      |       |       |       |      |      |    |    |    |    |    |       |
| OVERALL CALCULATED    |        |     | 84.1 | 84.3 | 86.7 | 89.2 | 89.2 | 91.0 | 92.4  | 92.9  | 93.2  | 96.3 |      |    |    |    |    |    | 129.7 |
| TRCT                  |        |     | 91.2 | 82.1 | 93.3 | 94.7 | 97.7 | 99.0 | 101.5 | 102.0 | 103.0 | 97.0 |      |    |    |    |    |    | 57.0  |

ORIGINAL PAGE IS OF POOR QUALITY.

AS PER REPORT OF THE ENGINEER, THE TEST RESULTS ARE AS SHOWN ON THIS PAGE.

ALL TESTS WERE RUN AT THE FOLLOWING RATES:

1000 RPM, 1500 RPM, 2000 RPM, 2500 RPM, 3000 RPM, 3500 RPM, 4000 RPM, 4500 RPM, 5000 RPM, 5500 RPM, 6000 RPM, 6500 RPM, 7000 RPM, 7500 RPM, 8000 RPM, 8500 RPM, 9000 RPM, 9500 RPM, 10000 RPM

| SIGNATURE           | 200 FT. | 300 FT. | 400 FT. | 500 FT. | 600 FT. | 700 FT. | 800 FT. | 900 FT. | 1000 FT. |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| VEHICLE             | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| ENGINE              | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| L/C SCHEMATIC       | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| DATE 10/15/55       | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| TIME 10:00          | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| TEST NO 100-1000    | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 1015                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 1210                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 1270                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 1300                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 1400                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 1500                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 1600                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 1700                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 1800                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 1900                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 2000                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 2100                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 2200                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 2300                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 2400                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 2500                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 2600                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 2700                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 2800                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 2900                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 3000                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 3100                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 3200                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 3300                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 3400                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 3500                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 3600                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 3700                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 3800                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 3900                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 4000                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 4100                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 4200                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 4300                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 4400                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 4500                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 4600                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 4700                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 4800                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 4900                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 5000                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 5100                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 5200                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 5300                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 5400                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 5500                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 5600                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 5700                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 5800                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 5900                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 6000                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 6100                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 6200                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 6300                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 6400                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 6500                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 6600                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 6700                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 6800                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 6900                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 7000                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 7100                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 7200                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 7300                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 7400                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 7500                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 7600                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 7700                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 7800                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 7900                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 8000                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 8100                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 8200                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 8300                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 8400                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 8500                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 8600                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 8700                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 8800                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 8900                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 9000                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 9100                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 9200                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 9300                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 9400                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 9500                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 9600                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 9700                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 9800                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 9900                | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| 10000               | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |
| OVERALL CALCULATION | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150     | 150      |

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FORM NO. 100-1000 (REV. 10-15-55)



|                     | 50   | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140   | 150   | 160   | 170   | 180   | 190   | 200   |
|---------------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| SIDELINE 200 FT.    | 47.0 | 53.7 | 57.0 | 60.3 | 63.6 | 67.0 | 70.3 | 73.7 | 77.0 | 80.3  | 83.7  | 87.0  | 90.3  | 93.7  | 97.0  | 100.3 |
| VEHICLE 9-55        | 47.3 | 54.3 | 57.2 | 60.1 | 63.0 | 66.0 | 69.0 | 72.0 | 75.0 | 78.0  | 81.0  | 84.0  | 87.0  | 90.0  | 93.0  | 96.0  |
| CONFIG 9R           | 47.7 | 54.7 | 57.6 | 60.5 | 63.4 | 66.4 | 69.4 | 72.4 | 75.4 | 78.4  | 81.4  | 84.4  | 87.4  | 90.4  | 93.4  | 96.4  |
| LCC SCHEMATIC       | 48.1 | 55.1 | 58.0 | 60.9 | 63.8 | 66.8 | 69.8 | 72.8 | 75.8 | 78.8  | 81.8  | 84.8  | 87.8  | 90.8  | 93.8  | 96.8  |
| DATE 12/7/74        | 48.5 | 55.5 | 58.4 | 61.3 | 64.2 | 67.2 | 70.2 | 73.2 | 76.2 | 79.2  | 82.2  | 85.2  | 88.2  | 91.2  | 94.2  | 97.2  |
| FLW 30/3            | 48.9 | 55.9 | 58.8 | 61.7 | 64.6 | 67.6 | 70.6 | 73.6 | 76.6 | 79.6  | 82.6  | 85.6  | 88.6  | 91.6  | 94.6  | 97.6  |
| TAPE 450            | 49.3 | 56.3 | 59.2 | 62.1 | 65.0 | 68.0 | 71.0 | 74.0 | 77.0 | 80.0  | 83.0  | 86.0  | 89.0  | 92.0  | 95.0  | 98.0  |
| RAK 500             | 49.7 | 56.7 | 59.6 | 62.5 | 65.4 | 68.4 | 71.4 | 74.4 | 77.4 | 80.4  | 83.4  | 86.4  | 89.4  | 92.4  | 95.4  | 98.4  |
| (01540 RPM)         | 50.1 | 57.1 | 60.0 | 62.9 | 65.8 | 68.8 | 71.8 | 74.8 | 77.8 | 80.8  | 83.8  | 86.8  | 89.8  | 92.8  | 95.8  | 98.8  |
| TAMB 46. DEG F      | 50.5 | 57.5 | 60.4 | 63.3 | 66.2 | 69.2 | 72.2 | 75.2 | 78.2 | 81.2  | 84.2  | 87.2  | 90.2  | 93.2  | 96.2  | 99.2  |
| (291. DEG F)        | 50.9 | 57.9 | 60.8 | 63.7 | 66.6 | 69.6 | 72.6 | 75.6 | 78.6 | 81.6  | 84.6  | 87.6  | 90.6  | 93.6  | 96.6  | 99.6  |
| T-ET 42. DEG F      | 51.3 | 58.3 | 61.2 | 64.1 | 67.0 | 70.0 | 73.0 | 76.0 | 79.0 | 82.0  | 85.0  | 88.0  | 91.0  | 94.0  | 97.0  | 100.0 |
| (279. DEG F)        | 51.7 | 58.7 | 61.6 | 64.5 | 67.4 | 70.4 | 73.4 | 76.4 | 79.4 | 82.4  | 85.4  | 88.4  | 91.4  | 94.4  | 97.4  | 100.4 |
| MACT 5.25 R4/R3     | 52.1 | 59.1 | 62.0 | 64.9 | 67.8 | 70.8 | 73.8 | 76.8 | 79.8 | 82.8  | 85.8  | 88.8  | 91.8  | 94.8  | 97.8  | 100.8 |
| (00585 R4/R3)       | 52.5 | 59.5 | 62.4 | 65.3 | 68.2 | 71.2 | 74.2 | 77.2 | 80.2 | 83.2  | 86.2  | 89.2  | 92.2  | 95.2  | 98.2  | 101.2 |
| NFA 6203. RPM       | 52.9 | 59.9 | 62.8 | 65.7 | 68.6 | 71.6 | 74.6 | 77.6 | 80.6 | 83.6  | 86.6  | 89.6  | 92.6  | 95.6  | 98.6  | 101.6 |
| (659. RPM/SEC)      | 53.3 | 60.3 | 63.2 | 66.1 | 69.0 | 72.0 | 75.0 | 78.0 | 81.0 | 84.0  | 87.0  | 90.0  | 93.0  | 96.0  | 99.0  | 102.0 |
| NFK 6373. RPM       | 53.7 | 60.7 | 63.6 | 66.5 | 69.4 | 72.4 | 75.4 | 78.4 | 81.4 | 84.4  | 87.4  | 90.4  | 93.4  | 96.4  | 99.4  | 102.4 |
| (697. RPM/SEC)      | 54.1 | 61.1 | 64.0 | 66.9 | 69.8 | 72.8 | 75.8 | 78.8 | 81.8 | 84.8  | 87.8  | 90.8  | 93.8  | 96.8  | 99.8  | 102.8 |
| NFD 6623. RPM       | 54.5 | 61.5 | 64.4 | 67.3 | 70.2 | 73.2 | 76.2 | 79.2 | 82.2 | 85.2  | 88.2  | 91.2  | 94.2  | 97.2  | 100.2 | 103.2 |
| (724. RPM/SEC)      | 54.9 | 61.9 | 64.8 | 67.7 | 70.6 | 73.6 | 76.6 | 79.6 | 82.6 | 85.6  | 88.6  | 91.6  | 94.6  | 97.6  | 100.6 | 103.6 |
| NO. OF BLADES 15    | 55.3 | 62.3 | 65.2 | 68.1 | 71.0 | 74.0 | 77.0 | 80.0 | 83.0 | 86.0  | 89.0  | 92.0  | 95.0  | 98.0  | 101.0 | 104.0 |
| FAN TIP SPEED 16000 | 55.7 | 62.7 | 65.6 | 68.5 | 71.4 | 74.4 | 77.4 | 80.4 | 83.4 | 86.4  | 89.4  | 92.4  | 95.4  | 98.4  | 101.4 | 104.4 |
| 549. FT/SEC         | 56.1 | 63.1 | 66.0 | 68.9 | 71.8 | 74.8 | 77.8 | 80.8 | 83.8 | 86.8  | 89.8  | 92.8  | 95.8  | 98.8  | 101.8 | 104.8 |
| 25000               | 56.5 | 63.5 | 66.4 | 69.3 | 72.2 | 75.2 | 78.2 | 81.2 | 84.2 | 87.2  | 90.2  | 93.2  | 96.2  | 99.2  | 102.2 | 105.2 |
| 31500               | 56.9 | 63.9 | 66.8 | 69.7 | 72.6 | 75.6 | 78.6 | 81.6 | 84.6 | 87.6  | 90.6  | 93.6  | 96.6  | 99.6  | 102.6 | 105.6 |
| 40000               | 57.3 | 64.3 | 67.2 | 70.1 | 73.0 | 76.0 | 79.0 | 82.0 | 85.0 | 88.0  | 91.0  | 94.0  | 97.0  | 100.0 | 103.0 | 106.0 |
| 50000               | 57.7 | 64.7 | 67.6 | 70.5 | 73.4 | 76.4 | 79.4 | 82.4 | 85.4 | 88.4  | 91.4  | 94.4  | 97.4  | 100.4 | 103.4 | 106.4 |
| 63000               | 58.1 | 65.1 | 68.0 | 70.9 | 73.8 | 76.8 | 79.8 | 82.8 | 85.8 | 88.8  | 91.8  | 94.8  | 97.8  | 100.8 | 103.8 | 106.8 |
| 80000               | 58.5 | 65.5 | 68.4 | 71.3 | 74.2 | 77.2 | 80.2 | 83.2 | 86.2 | 89.2  | 92.2  | 95.2  | 98.2  | 101.2 | 104.2 | 107.2 |
| OVERALL CALCULATED  | 59.2 | 66.3 | 69.4 | 72.5 | 75.6 | 78.7 | 81.8 | 84.9 | 88.0 | 91.1  | 94.2  | 97.3  | 100.4 | 103.5 | 106.6 | 109.7 |
| PAGE                | 67.5 | 74.8 | 78.3 | 81.8 | 85.3 | 88.8 | 92.3 | 95.8 | 99.3 | 102.8 | 106.3 | 109.8 | 113.3 | 116.8 | 120.3 | 123.8 |

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NOISE CONTROL SYSTEMS, INC. 20  
FORM 1413  
PRINTED IN U.S.A. 37

|                    | 53    | 63   | 71   | 78   | 86    | 94    | 101   | 111   | 120   | 133   | 145   | 154   | 164 | 174 | 184 | 194 | 204 | 214 | 224 | 234 | 244 | 254 | 264 | 274 | 284 | 294 | 304 |  |       |       |  |
|--------------------|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-------|-------|--|
| RADIA, 17. FT.     | 100   | 94.3 | 75.5 | 71.4 | 77.5  | 72.1  | 72.7  | 71.1  | 71.5  | 75.1  | 65.1  | 63.9  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       |       |  |
| VEHICLE            | 125   | 73.3 | 72.1 | 73.5 | 75.7  | 73.4  | 73.2  | 74.6  | 74.9  | 77.7  | 69.3  | 62.0  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  | 100.1 |       |  |
| CONFIG             | 160   | 77.8 | 71.7 | 71.5 | 72.6  | 72.1  | 72.6  | 74.4  | 75.5  | 74.7  | 61.3  | 62.0  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 111.6 |  |
| LCC SCHEDULE       | 210   | 69.8 | 63.9 | 71.1 | 71.7  | 71.0  | 74.0  | 76.8  | 77.9  | 79.7  | 62.0  | 64.1  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 111.0 |  |
| DATE               | 250   | 73.3 | 74.5 | 76.1 | 77.1  | 75.6  | 77.6  | 78.6  | 78.6  | 79.7  | 62.3  | 63.3  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 112.0 |  |
| REF                | 315   | 75.0 | 75.4 | 75.9 | 77.7  | 77.6  | 77.9  | 78.6  | 78.6  | 79.7  | 62.3  | 62.0  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 112.0 |  |
| TYPE               | 400   | 73.6 | 74.3 | 74.6 | 74.7  | 75.6  | 75.9  | 77.0  | 77.5  | 79.7  | 61.1  | 61.6  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 111.5 |  |
| BAR                | 510   | 72.6 | 73.3 | 74.1 | 74.7  | 75.6  | 76.4  | 76.1  | 76.7  | 77.7  | 61.7  | 61.6  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 112.1 |  |
| (D1564)            | 650   | 75.1 | 75.6 | 77.6 | 77.7  | 79.9  | 81.2  | 82.9  | 82.7  | 82.7  | 62.8  | 60.9  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 114.0 |  |
| TAMP               | 800   | 78.6 | 78.4 | 79.1 | 79.9  | 81.4  | 83.7  | 84.1  | 83.9  | 84.0  | 83.3  | 81.4  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 110.3 |  |
| (281)              | 1000  | 76.3 | 77.6 | 78.4 | 78.7  | 81.4  | 82.7  | 84.1  | 85.1  | 85.1  | 84.6  | 81.6  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 110.0 |  |
| T-ET               | 1200  | 71.2 | 73.5 | 75.4 | 77.7  | 81.4  | 82.5  | 84.6  | 85.1  | 86.0  | 86.4  | 81.6  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 110.0 |  |
| (275)              | 1600  | 72.7 | 72.7 | 75.1 | 75.6  | 78.5  | 82.2  | 83.2  | 83.9  | 83.7  | 83.9  | 78.9  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 114.7 |  |
| MACT               | 2000  | 71.2 | 71.2 | 72.5 | 73.1  | 74.7  | 77.5  | 78.1  | 78.9  | 80.7  | 79.6  | 76.6  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 111.2 |  |
| (50585)            | 2500  | 73.3 | 71.0 | 72.6 | 74.7  | 75.7  | 77.6  | 79.0  | 79.3  | 81.2  | 78.5  | 75.0  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 111.6 |  |
| NFA                | 3120  | 69.9 | 71.3 | 72.0 | 74.9  | 77.5  | 81.0  | 81.3  | 82.1  | 84.2  | 80.4  | 76.3  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 113.0 |  |
| (742)              | 4000  | 73.3 | 72.7 | 74.5 | 77.7  | 77.7  | 81.9  | 82.9  | 83.5  | 84.6  | 81.3  | 77.0  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 115.0 |  |
| NFK                | 5000  | 67.5 | 63.4 | 71.2 | 77.0  | 75.7  | 77.4  | 81.1  | 82.4  | 81.1  | 77.7  | 73.4  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 114.2 |  |
| (751)              | 6300  | 65.4 | 67.4 | 63.9 | 71.3  | 73.3  | 75.1  | 75.9  | 77.7  | 77.6  | 74.5  | 71.3  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 110.5 |  |
| NFE                | 8000  | 66.5 | 67.4 | 69.9 | 72.4  | 74.7  | 77.0  | 81.1  | 81.7  | 82.7  | 77.2  | 73.6  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 112.2 |  |
| (924)              | 10000 | 67.8 | 68.3 | 71.2 | 74.2  | 76.5  | 79.0  | 82.1  | 83.5  | 85.3  | 79.6  | 75.4  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 114.0 |  |
| NO. OF SLATES      | 12500 | 69.0 | 69.9 | 72.3 | 75.3  | 77.9  | 81.7  | 83.7  | 86.0  | 87.0  | 82.5  | 77.2  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 110.3 |  |
| FAH TIP SPEED      | 16000 | 67.5 | 67.6 | 70.2 | 72.3  | 75.1  | 79.2  | 82.1  | 85.0  | 85.5  | 80.6  | 76.0  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 113.4 |  |
| 810 FT/SEC         | 20000 | 69.3 | 69.2 | 71.9 | 74.4  | 77.7  | 81.0  | 84.0  | 86.8  | 87.1  | 82.3  | 74.4  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 117.5 |  |
|                    | 25000 | 68.6 | 68.3 | 72.3 | 74.4  | 77.9  | 81.9  | 83.4  | 86.2  | 87.0  | 82.1  | 77.6  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 117.0 |  |
|                    | 31500 | 68.7 | 63.6 | 73.5 | 77.2  | 80.7  | 82.5  | 85.0  | 87.3  | 87.0  | 82.1  | 75.4  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 119.3 |  |
|                    | 40000 | 63.2 | 67.6 | 72.3 | 74.7  | 77.4  | 81.0  | 83.9  | 84.5  | 85.9  | 81.4  | 72.4  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 115.3 |  |
|                    | 50000 | 63.5 | 66.7 | 70.2 | 74.7  | 73.5  | 77.1  | 81.0  | 76.7  | 80.3  | 77.1  | 67.0  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 110.0 |  |
|                    | 63000 | 71.4 | 65.8 | 70.3 | 67.5  | 69.4  | 71.0  | 74.0  | 72.7  | 73.1  | 71.4  | 65.4  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 114.1 |  |
|                    | 80000 | 73.1 | 70.7 | 71.7 | 67.3  | 69.1  | 69.4  | 71.1  | 66.4  | 68.6  | 68.7  | 66.9  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 110.0 |  |
| OVERALL MEASURES   |       |      |      |      |       |       |       |       |       |       |       |       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       |       |  |
| OVERALL CALCULATED |       | 86.2 | 87.6 | 89.1 | 90.3  | 92.1  | 94.1  | 96.1  | 97.2  | 99.1  | 96.2  | 84.3  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       | 129.0 |  |
| PVE                |       | 98.5 | 97.8 | 99.4 | 101.3 | 103.3 | 105.2 | 105.5 | 107.2 | 109.2 | 106.3 | 103.4 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |       |       |  |

|                    | 53    | 54   | 71   | 71   | 71   | 101  | 111  | 122  | 133  | 145  | 156  | U <sub>1</sub> | U <sub>2</sub> | U <sub>3</sub> | U <sub>4</sub> | U <sub>5</sub> | U <sub>6</sub> |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|----------------|----------------|----------------|----------------|----------------|----------------|
| SIDELINE 200. FT.  | 30    |      |      |      |      |      |      |      |      |      |      |                |                |                |                |                |                |
| VEHICLE (60.96 F)  | 150   | 47.6 | 48.2 | 47.3 | 47.5 | 48.5 | 47.5 | 47.9 | 47.1 | 50.4 | 53.5 | 53.0           |                |                |                |                |                |
| CONFIG 9M          | 125   | 47.5 | 48.3 | 46.5 | 47.9 | 51.7 | 51.3 | 52.3 | 53.4 | 53.2 | 53.7 | 52.0           |                |                |                |                |                |
| LCC SCHEMECTAY     | 230   | 45.8 | 46.2 | 47.5 | 49.5 | 51.6 | 53.4 | 54.2 | 54.6 | 54.1 | 55.0 | 54.0           |                |                |                |                |                |
| DIYE 12/5/74       | 250   | 49.2 | 51.3 | 53.7 | 54.1 | 54.7 | 54.0 | 56.1 | 55.4 | 54.7 | 55.2 | 57.5           |                |                |                |                |                |
| RUN 30.7           | 315   | 50.9 | 53.2 | 54.4 | 55.6 | 55.7 | 55.6 | 56.2 | 55.1 | 54.7 | 55.1 | 51.0           |                |                |                |                |                |
| TAPE               | 400   | 47.3 | 51.1 | 52.1 | 52.7 | 53.5 | 53.7 | 54.9 | 54.3 | 53.9 | 53.7 | 50.3           |                |                |                |                |                |
| BAR 30.1 MG        | 500   | 48.2 | 52.2 | 51.5 | 52.4 | 53.5 | 54.0 | 56.3 | 55.9 | 55.5 | 54.9 | 49.5           |                |                |                |                |                |
| (01584. /112)      | 630   | 50.6 | 52.2 | 54.9 | 55.1 | 57.7 | 55.9 | 59.7 | 58.0 | 57.4 | 55.1 | 49.5           |                |                |                |                |                |
| TANN 46. DEG F     | 830   | 52.2 | 54.3 | 56.2 | 57.5 | 59.0 | 61.7 | 61.0 | 59.0 | 58.4 | 55.4 | 49.2           |                |                |                |                |                |
| (281. DEG F)       | 1030  | 51.6 | 53.3 | 55.3 | 57.6 | 59.7 | 60.0 | 60.0 | 61.0 | 59.3 | 56.4 | 47.1           |                |                |                |                |                |
| T-ET 42. DEG F     | 1230  | 49.2 | 50.2 | 53.2 | 55.2 | 57.6 | 59.7 | 61.3 | 60.2 | 60.1 | 57.6 | 47.6           |                |                |                |                |                |
| (279. DEG F)       | 1430  | 47.4 | 48.6 | 51.8 | 54.1 | 55.7 | 59.3 | 59.2 | 57.4 | 57.2 | 54.7 | 45.6           |                |                |                |                |                |
| WACT 5.85 GM/MS    | 2030  | 45.7 | 46.3 | 49.1 | 51.2 | 53.3 | 54.4 | 54.4 | 54.2 | 54.4 | 50.6 | 42.3           |                |                |                |                |                |
| (-50505 RPM/MS)    | 2530  | 44.7 | 46.4 | 46.9 | 51.6 | 53.5 | 54.7 | 55.2 | 54.4 | 54.1 | 49.2 | 41.4           |                |                |                |                |                |
| NFA 7004. RPM      | 3130  | 43.9 | 46.1 | 46.9 | 51.3 | 51.1 | 56.4 | 57.1 | 54.8 | 57.2 | 50.5 | 41.4           |                |                |                |                |                |
| (742. RAD/SEC)     | 4030  | 44.3 | 47.4 | 50.1 | 53.4 | 55.9 | 57.9 | 58.3 | 57.7 | 57.1 | 50.7 | 41.0           |                |                |                |                |                |
| NFK 3174. RPM      | 5030  | 42.7 | 43.8 | 46.5 | 49.4 | 51.5 | 54.1 | 55.2 | 50.9 | 53.2 | 46.0 | 38.6           |                |                |                |                |                |
| (751. RAD/SEC)     | 6330  | 37.6 | 41.1 | 43.5 | 46.5 | 48.5 | 50.1 | 50.2 | 50.0 | 48.7 | 42.2 | 37.0           |                |                |                |                |                |
| NFD 8023. RPM      | 8030  | 37.3 | 40.7 | 43.3 | 46.4 | 48.9 | 50.9 | 53.3 | 53.5 | 52.3 | 43.0 | 32.3           |                |                |                |                |                |
| (924. RAD/SEC)     | 10030 | 35.9 | 39.6 | 43.0 | 46.7 | 49.2 | 52.0 | 53.7 | 54.6 | 52.4 | 43.6 | 30.3           |                |                |                |                |                |
| NG. OF BLADES 15   | 12530 | 35.1 | 38.2 | 41.2 | 45.5 | 48.4 | 50.9 | 52.9 | 53.4 | 51.4 | 41.7 | 28.3           |                |                |                |                |                |
| PAH TIP SPEED      | 16030 | 27.8 | 31.6 | 35.8 | 39.5 | 43.5 | 45.6 | 47.4 | 48.1 | 44.8 | 35.3 | 16.3           |                |                |                |                |                |
| 618. FT/SEC        | 20030 | 23.7 | 26.7 | 32.3 | 36.3 | 39.8 | 42.4 | 44.2 | 44.0 | 39.8 | 26.6 | 5.6            |                |                |                |                |                |
|                    | 25030 | 15.3 | 19.5 | 25.7 | 30.3 | 32.7 | 35.6 | 36.5 | 35.5 | 30.1 | 14.3 |                |                |                |                |                |                |
|                    | 31530 | 2.6  | 9.3  | 16.7 | 22.0 | 25.5 | 27.1 | 27.2 | 23.8 | 16.3 |      |                |                |                |                |                |                |
|                    | 40030 |      |      |      | 4.6  | 6.1  | 10.4 | 10.2 | 4.3  |      |      |                |                |                |                |                |                |
|                    | 50030 |      |      |      |      |      |      |      |      |      |      |                |                |                |                |                |                |
|                    | 63030 |      |      |      |      |      |      |      |      |      |      |                |                |                |                |                |                |
|                    | 80030 |      |      |      |      |      |      |      |      |      |      |                |                |                |                |                |                |
| OVERALL CALCULATED |       | 61.3 | 63.3 | 65.3 | 66.5 | 68.2 | 69.5 | 70.4 | 69.9 | 69.1 | 66.8 | 62.4           |                |                |                |                |                |
| PNDR               |       | 70.3 | 72.8 | 75.2 | 77.5 | 79.7 | 81.4 | 82.1 | 81.7 | 81.1 | 78.4 | 68.8           |                |                |                |                |                |

NATIONAL BUREAU OF STANDARDS, INC. 1975 RELEASE UNDER E.O. 14176



|                     | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 160    | 170    | 180    | 190    | 200    |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                     | (3.52) | (4.03) | (4.24) | (4.41) | (4.58) | (4.76) | (4.94) | (5.13) | (5.32) | (5.52) | (5.73) | (5.95) | (6.17) | (6.40) | (6.64) | (6.88) |
| RADIAL 17. FT.      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE (5.0 M)     | 100    | 67.0   | 70.4   | 71.9   | 71.4   | 72.1   | 73.2   | 73.4   | 74.2   | 76.5   | 83.3   | 87.1   |        |        |        | 112.0  |
| CONFIG GR           | 125    | 76.3   | 72.4   | 76.4   | 75.4   | 76.9   | 77.2   | 79.4   | 79.6   | 81.5   | 83.3   | 86.9   |        |        |        | 114.0  |
| LCC (CHEN-FEYACV)   | 200    | 73.5   | 74.6   | 74.6   | 75.2   | 75.1   | 71.4   | 77.0   | 76.2   | 81.5   | 81.4   | 87.1   |        |        |        | 113.7  |
| DATE 12/5/74        | 250    | 72.8   | 72.4   | 74.1   | 74.7   | 75.9   | 75.9   | 79.4   | 81.4   | 83.0   | 84.1   | 87.1   |        |        |        | 115.1  |
| RUN: 30/10          | 315    | 77.3   | 77.4   | 79.1   | 79.9   | 80.4   | 81.0   | 82.6   | 84.4   | 85.5   | 87.1   | 87.1   |        |        |        | 117.2  |
| TARE                | 400    | 78.5   | 79.4   | 79.6   | 80.3   | 80.6   | 81.2   | 81.7   | 82.1   | 83.2   | 85.6   | 86.6   |        |        |        | 119.1  |
| BAR 30.1 MG         | 500    | 76.7   | 76.9   | 77.6   | 77.5   | 77.9   | 78.3   | 79.1   | 81.1   | 81.1   | 82.7   | 84.5   |        |        |        | 114.0  |
| (61584.0 RPM)       | 630    | 75.1   | 75.6   | 75.6   | 77.4   | 78.1   | 79.4   | 81.9   | 82.6   | 83.7   | 84.5   | 86.3   |        |        |        | 115.0  |
| TARE 47. DEG F      | 800    | 75.3   | 75.1   | 79.4   | 80.4   | 81.9   | 83.7   | 85.1   | 85.2   | 85.2   | 85.9   | 86.9   |        |        |        | 117.4  |
| (201. DEG F)        | 1000   | 83.6   | 82.3   | 81.6   | 83.2   | 84.4   | 85.7   | 86.6   | 88.3   | 88.5   | 89.3   | 89.4   |        |        |        | 118.4  |
| T-ET 42. DEG F      | 1200   | 79.4   | 79.9   | 80.9   | 82.7   | 84.1   | 85.4   | 87.3   | 88.4   | 87.7   | 88.3   | 89.1   |        |        |        | 118.7  |
| (279. DEG F)        | 1400   | 76.7   | 76.4   | 78.4   | 81.2   | 82.7   | 84.7   | 86.6   | 88.9   | 87.7   | 88.9   | 89.4   |        |        |        | 118.9  |
| HACT 5.55 GM/MS     | 1600   | 74.4   | 75.2   | 77.1   | 78.5   | 81.5   | 83.9   | 84.8   | 83.9   | 85.5   | 85.1   | 86.1   |        |        |        | 118.5  |
| (.00555 KG/MS)      | 2000   | 73.4   | 74.3   | 76.4   | 77.1   | 77.5   | 81.3   | 82.0   | 82.9   | 84.4   | 81.7   | 82.6   |        |        |        | 116.8  |
| HFA 7870. RPM       | 3150   | 72.5   | 74.3   | 75.6   | 78.1   | 80.0   | 82.7   | 83.5   | 83.6   | 84.0   | 81.6   | 82.0   |        |        |        | 115.5  |
| (.824. PAL/SEC)     | 4000   | 74.1   | 76.7   | 78.8   | 81.1   | 84.0   | 85.7   | 86.2   | 87.2   | 87.4   | 83.8   | 84.2   |        |        |        | 116.4  |
| HFK 7963. RPM       | 5000   | 71.1   | 72.9   | 74.7   | 77.3   | 79.5   | 81.2   | 82.5   | 83.7   | 83.8   | 80.5   | 80.7   |        |        |        | 114.5  |
| (.834. PAL/SEC)     | 6300   | 68.9   | 70.7   | 72.4   | 75.0   | 77.6   | 78.9   | 79.6   | 80.5   | 81.6   | 78.2   | 78.6   |        |        |        | 112.2  |
| HFD 8023. RPM       | 8000   | 69.0   | 71.1   | 73.2   | 75.9   | 77.7   | 79.7   | 80.0   | 83.7   | 83.5   | 84.7   | 80.9   |        |        |        | 110.9  |
| (.924. PAL/SEC)     | 10000  | 73.3   | 72.3   | 74.5   | 77.4   | 79.3   | 83.1   | 85.9   | 86.7   | 86.8   | 82.3   | 82.3   |        |        |        | 117.3  |
| NO. OF BLADES 15    | 12500  | 71.3   | 72.4   | 75.9   | 79.1   | 81.7   | 84.6   | 87.0   | 89.5   | 89.6   | 84.4   | 84.9   |        |        |        | 116.0  |
| FAN TIP SPEED 16000 | 20000  | 69.3   | 71.1   | 73.8   | 77.7   | 80.2   | 82.7   | 85.4   | 88.3   | 88.1   | 82.9   | 82.4   |        |        |        | 118.5  |
| 687. FT/SEC         | 25000  | 73.1   | 71.5   | 75.5   | 78.2   | 81.8   | 84.4   | 87.1   | 89.7   | 90.2   | 84.9   | 85.2   |        |        |        | 120.7  |
| 25000               | 31500  | 71.0   | 71.9   | 75.7   | 79.7   | 81.1   | 84.5   | 87.7   | 90.1   | 90.4   | 85.5   | 86.7   |        |        |        | 121.0  |
| 31500               | 40000  | 71.0   | 73.0   | 76.7   | 81.3   | 83.4   | 86.1   | 87.9   | 89.7   | 90.1   | 84.7   | 85.3   |        |        |        | 122.0  |
| 40000               | 50000  | 70.0   | 70.0   | 75.2   | 78.7   | 81.5   | 84.1   | 87.7   | 89.3   | 88.2   | 83.7   | 84.5   |        |        |        | 122.7  |
| 50000               | 63000  | 69.7   | 68.3   | 72.2   | 74.0   | 77.0   | 79.9   | 83.1   | 83.2   | 83.0   | 80.6   | 80.4   |        |        |        | 115.0  |
| 63000               | 80000  | 71.3   | 66.7   | 70.0   | 69.1   | 71.3   | 73.7   | 76.9   | 75.1   | 75.3   | 73.5   | 65.9   |        |        |        | 110.1  |
| 80000               |        | 72.7   | 70.5   | 71.5   | 68.4   | 68.9   | 69.7   | 71.2   | 69.3   | 69.0   | 69.1   | 66.4   |        |        |        | 117.0  |
| OVERALL MEASURE     |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED  |        | 89.3   | 90.0   | 91.6   | 93.6   | 95.4   | 97.2   | 99.1   | 100.4  | 100.9  | 99.0   | 97.6   |        |        |        | 132.0  |
| PAVE                |        | 99.4   | 101.0  | 102.8  | 104.4  | 106.9  | 108.5  | 109.6  | 110.4  | 111.1  | 109.5  | 106.7  |        |        |        |        |

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| FR.                | 50    | 54    | 71    | 71    | 71    | 110   | 111   | 127   | 130   | 145   | 157   | 160   | 170   | 180   | 190   | 200   | 210   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30                 | 50.92 | 51.06 | 51.24 | 51.41 | 51.58 | 51.76 | 51.94 | 52.13 | 52.32 | 52.52 | 52.73 | 52.95 | 53.18 | 53.42 | 53.67 | 53.93 | 54.20 |
| SIDE IN. 200. FT.  | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    |
| (1 50.96 F)        | 150   | 43.4  | 47.7  | 47.3  | 46.7  | 50.5  | 51.4  | 51.2  | 51.1  | 54.7  | 54.5  | 57.0  |       |       |       |       |       |
| VEHICLE R-99       | 125   | 52.3  | 51.6  | 51.2  | 51.6  | 51.2  | 45.3  | 49.1  | 56.8  | 56.9  | 56.7  | 56.8  |       |       |       |       |       |
| GEMFIC 9H          | 100   | 49.3  | 51.7  | 52.4  | 51.7  | 53.4  | 43.5  | 45.5  | 55.7  | 56.7  | 57.4  | 57.6  |       |       |       |       |       |
| LCC SCHEDULED      | 200   | 49.3  | 49.2  | 51.4  | 50.7  | 55.1  | 54.9  | 57.2  | 56.1  | 58.2  | 57.1  | 57.4  |       |       |       |       |       |
| DATE 12/7/74       | 250   | 51.2  | 54.3  | 55.7  | 57.1  | 59.5  | 59.9  | 63.1  | 61.0  | 60.4  | 60.0  | 60.2  |       |       |       |       |       |
| NO. 30/10          | 315   | 54.4  | 55.2  | 57.1  | 57.7  | 53.7  | 59.0  | 58.7  | 56.6  | 56.2  | 58.3  | 55.5  |       |       |       |       |       |
| DATE               | 400   | 52.3  | 53.6  | 55.1  | 56.3  | 58.5  | 58.7  | 57.4  | 57.5  | 57.4  | 57.2  | 57.4  |       |       |       |       |       |
| BAR 30.1 NO        | 500   | 52.7  | 52.3  | 54.7  | 55.2  | 58.0  | 57.0  | 59.0  | 59.2  | 58.8  | 58.7  | 58.5  |       |       |       |       |       |
| (15504. 1/112)     | 630   | 52.3  | 54.7  | 56.5  | 57.1  | 59.7  | 61.3  | 62.2  | 61.3  | 59.6  | 58.1  | 57.2  |       |       |       |       |       |
| TAMB 47. DEG F     | 800   | 55.9  | 57.3  | 59.7  | 60.7  | 62.7  | 63.2  | 63.5  | 62.9  | 64.4  | 64.4  | 62.2  |       |       |       |       |       |
| (241. DEG K)       | 1000  | 54.6  | 56.1  | 57.5  | 58.1  | 61.7  | 62.8  | 63.2  | 62.5  | 61.3  | 61.2  | 59.6  |       |       |       |       |       |
| TACT 42. DEG F     | 1200  | 51.7  | 52.5  | 55.2  | 56.5  | 61.1  | 61.9  | 63.7  | 62.5  | 61.4  | 61.4  | 60.3  |       |       |       |       |       |
| (279. DEG K)       | 1400  | 49.2  | 51.1  | 53.5  | 56.1  | 60.7  | 60.0  | 61.3  | 59.4  | 59.4  | 58.4  | 57.5  |       |       |       |       |       |
| HACT 5.55 21/M3    | 2000  | 44.3  | 51.4  | 55.3  | 58.7  | 63.3  | 62.9  | 65.2  | 62.4  | 61.4  | 60.1  | 60.1  |       |       |       |       |       |
| (100555 21/M3)     | 2500  | 47.7  | 49.7  | 52.6  | 54.8  | 58.5  | 57.7  | 58.2  | 57.9  | 57.6  | 57.5  | 55.4  |       |       |       |       |       |
| NFA 7870. RPM      | 3150  | 45.7  | 47.4  | 51.6  | 54.5  | 58.6  | 59.1  | 59.3  | 58.6  | 58.1  | 51.9  | 43.4  |       |       |       |       |       |
| (824. 4M/SEC)      | 4000  | 47.5  | 51.4  | 54.3  | 57.1  | 61.2  | 61.7  | 61.6  | 61.5  | 59.4  | 53.7  | 44.3  |       |       |       |       |       |
| NFK 7003. 4PH      | 5000  | 44.2  | 47.3  | 53.0  | 53.1  | 55.4  | 56.9  | 57.7  | 57.6  | 55.7  | 48.5  | 40.1  |       |       |       |       |       |
| (834. 2M/SEC)      | 6330  | 41.1  | 44.3  | 47.0  | 50.2  | 52.6  | 53.9  | 54.1  | 52.5  | 52.7  | 46.0  | 36.3  |       |       |       |       |       |
| NPI 6823. RPM      | 8000  | 39.9  | 43.5  | 46.5  | 49.7  | 51.7  | 54.7  | 56.9  | 55.3  | 54.3  | 45.2  | 34.6  |       |       |       |       |       |
| (824. 2M/SEC)      | 10000 | 39.2  | 42.5  | 46.3  | 49.2  | 51.5  | 55.5  | 57.5  | 56.7  | 54.3  | 43.1  | 32.1  |       |       |       |       |       |
| NO. OF BLADES 15   | 12500 | 37.4  | 40.6  | 45.3  | 49.3  | 52.2  | 54.9  | 56.2  | 56.0  | 54.7  | 44.0  | 28.6  |       |       |       |       |       |
| FAC. TIP SPEC      | 16000 | 35.5  | 35.1  | 39.2  | 42.7  | 47.1  | 49.2  | 50.7  | 51.4  | 47.4  | 35.6  | 18.1  |       |       |       |       |       |
| 687. FT/SEC        | 20000 | 23.5  | 30.1  | 36.1  | 39.7  | 43.7  | 45.0  | 47.2  | 47.1  | 42.0  | 29.2  | 7.0   |       |       |       |       |       |
|                    | 25000 | 17.6  | 22.8  | 29.1  | 33.6  | 38.7  | 39.2  | 40.6  | 39.3  | 33.7  | 17.6  |       |       |       |       |       |       |
|                    | 31500 | 5.0   | 12.4  | 19.6  | 26.1  | 28.8  | 30.8  | 30.1  | 27.2  | 19.4  |       |       |       |       |       |       |       |
|                    | 40000 |       |       | 2.4   | 7.5   | 12.1  | 13.7  | 14.0  | 8.1   |       |       |       |       |       |       |       |       |
|                    | 53000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                    | 63000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                    | 80000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| OVERALL CALCULATED |       | 64.3  | 65.6  | 67.7  | 69.4  | 71.2  | 72.3  | 73.7  | 72.0  | 72.1  | 69.8  | 66.1  |       |       |       |       |       |
| P&P                |       | 73.3  | 76.1  | 78.7  | 81.2  | 83.4  | 84.7  | 85.2  | 85.0  | 83.9  | 80.2  | 72.4  |       |       |       |       |       |

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ALCOA RESEARCH CORP. INC. 1974

WHEEL SPEED PRESSURE LEVEL 150.0 PSI, 20.0 PSI, 30.0 PSI, 40.0 PSI, 50.0 PSI, 60.0 PSI, 70.0 PSI, 80.0 PSI, 90.0 PSI, 100.0 PSI, 110.0 PSI, 120.0 PSI, 130.0 PSI, 140.0 PSI, 150.0 PSI, 160.0 PSI, 170.0 PSI, 180.0 PSI, 190.0 PSI, 200.0 PSI

|                        | 50    | 60   | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 160   | 170 | 180 | 190 | 200   |
|------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|
| RACIA 17. FT.          | 53    | 53   | 53    | 53    | 53    | 53    | 53    | 53    | 53    | 53    | 53    | 53    | 53  | 53  | 53  | 53    |
| VEHICLE                | 100   | 67.0 | 70.4  | 71.9  | 71.9  | 72.5  | 73.0  | 73.4  | 74.2  | 74.2  | 81.1  | 80.9  |     |     |     | 111.8 |
| CONFIG                 | 125   | 75.3 | 72.4  | 76.1  | 75.7  | 76.4  | 77.4  | 79.1  | 81.4  | 82.0  | 81.8  | 86.3  |     |     |     | 114.2 |
| LEC SCHE RECTIFY       | 150   | 74.3 | 74.1  | 74.7  | 77.7  | 75.4  | 75.4  | 77.0  | 76.4  | 81.5  | 81.3  | 74.9  |     |     |     | 115.7 |
| DATE 12/07/10          | 200   | 72.0 | 72.5  | 73.2  | 74.1  | 76.5  | 76.9  | 79.9  | 81.2  | 83.2  | 84.3  | 81.1  |     |     |     | 115.1 |
| RUN 30/11              | 250   | 77.5 | 77.4  | 76.1  | 76.0  | 80.0  | 81.4  | 82.8  | 84.1  | 85.5  | 84.4  | 87.0  |     |     |     | 117.1 |
| YATE                   | 315   | 70.8 | 72.5  | 70.9  | 77.7  | 75.9  | 71.4  | 72.1  | 82.1  | 83.5  | 85.1  | 86.1  |     |     |     | 110.2 |
| GAP 30.1 IN            | 400   | 76.8 | 77.1  | 77.7  | 77.7  | 78.4  | 79.2  | 79.0  | 81.7  | 82.5  | 84.3  | 85.6  |     |     |     | 114.0 |
| (11584. 1/121)         | 500   | 75.3 | 75.3  | 76.9  | 77.4  | 78.1  | 79.0  | 81.6  | 82.4  | 83.2  | 84.3  | 84.1  |     |     |     | 114.0 |
| TANK 42. DEG F         | 600   | 77.6 | 74.1  | 75.5  | 81.4  | 82.2  | 83.7  | 85.1  | 85.2  | 86.2  | 84.5  | 84.0  |     |     |     | 117.4 |
| (281. DEG K)           | 800   | 79.5 | 80.4  | 80.9  | 82.9  | 84.4  | 85.7  | 86.4  | 86.4  | 86.0  | 85.4  | 86.1  |     |     |     | 110.0 |
| TACT 42. DEG F         | 1000  | 79.5 | 80.4  | 80.9  | 82.9  | 84.4  | 85.7  | 86.4  | 86.4  | 86.0  | 85.4  | 86.1  |     |     |     | 110.0 |
| (279. DEG K)           | 1200  | 76.7 | 76.7  | 78.4  | 81.2  | 82.9  | 84.2  | 85.8  | 86.9  | 88.2  | 88.8  | 87.4  |     |     |     | 116.0 |
| HACT 5.55 G/MY         | 1600  | 74.4 | 75.2  | 77.1  | 77.9  | 81.5  | 83.2  | 84.6  | 84.4  | 85.2  | 84.4  | 81.4  |     |     |     | 116.5 |
| (100555 R/MY)          | 2000  | 73.9 | 75.7  | 78.6  | 82.1  | 82.7  | 81.2  | 84.1  | 87.9  | 88.7  | 87.4  | 81.4  |     |     |     | 110.4 |
| NFA 7076 RPM           | 2500  | 73.9 | 74.5  | 75.9  | 77.6  | 79.5  | 80.6  | 81.8  | 82.9  | 84.2  | 81.4  | 79.1  |     |     |     | 114.0 |
| (825. R42/SEC)         | 3100  | 73.2 | 73.7  | 75.1  | 77.3  | 78.3  | 81.2  | 83.0  | 83.8  | 81.5  | 81.8  | 77.9  |     |     |     | 115.5 |
| MFK 7971 RPM           | 4000  | 74.6 | 76.7  | 78.3  | 81.8  | 84.2  | 85.7  | 86.2  | 87.2  | 87.7  | 83.9  | 81.0  |     |     |     | 110.5 |
| (835. R42/SEC)         | 5000  | 71.1 | 72.4  | 74.7  | 77.7  | 79.7  | 81.4  | 82.4  | 84.4  | 83.4  | 79.5  | 76.9  |     |     |     | 114.7 |
| NFS 8847 RPM           | 6000  | 69.1 | 70.5  | 72.4  | 75.2  | 77.1  | 77.9  | 76.6  | 80.7  | 81.2  | 78.0  | 74.4  |     |     |     | 112.1 |
| (924. R42/SEC)         | 10000 | 69.8 | 72.0  | 74.3  | 77.8  | 80.3  | 82.9  | 85.4  | 84.7  | 87.1  | 82.5  | 77.3  |     |     |     | 117.3 |
| NO. OF BLADES IS 12500 | 12500 | 71.3 | 72.4  | 75.6  | 79.3  | 82.7  | 84.3  | 87.7  | 84.8  | 89.5  | 84.3  | 79.7  |     |     |     | 119.9 |
| FAN TIP SPEED 16000    | 16000 | 69.1 | 70.9  | 73.8  | 76.7  | 79.7  | 83.0  | 85.4  | 87.6  | 88.1  | 83.1  | 78.9  |     |     |     | 110.4 |
| 688. FT/SEC            | 20000 | 67.5 | 71.5  | 75.0  | 77.2  | 81.5  | 84.1  | 87.3  | 89.2  | 90.2  | 84.7  | 80.4  |     |     |     | 126.0 |
|                        | 25000 | 70.5 | 72.1  | 75.4  | 77.8  | 81.1  | 84.5  | 87.5  | 91.0  | 90.8  | 85.2  | 81.5  |     |     |     | 121.7 |
|                        | 31500 | 70.3 | 72.3  | 76.3  | 80.9  | 82.7  | 86.4  | 87.7  | 89.2  | 89.9  | 84.5  | 78.0  |     |     |     | 122.4 |
|                        | 40000 | 69.2 | 73.3  | 75.0  | 79.0  | 81.2  | 84.4  | 87.0  | 84.5  | 86.7  | 83.2  | 78.4  |     |     |     | 122.7 |
|                        | 50000 | 69.1 | 68.0  | 71.7  | 74.7  | 76.5  | 79.9  | 83.3  | 82.9  | 83.3  | 80.1  | 80.9  |     |     |     | 119.0 |
|                        | 60000 | 70.6 | 67.3  | 70.2  | 69.4  | 70.8  | 73.7  | 74.0  | 75.1  | 76.1  | 72.8  | 81.1  |     |     |     | 110.1 |
|                        | 80000 | 73.0 | 71.5  | 71.5  | 68.4  | 68.9  | 69.5  | 70.9  | 69.0  | 69.5  | 68.0  | 68.4  |     |     |     | 117.1 |
| OVERALL MEASURED       |       |      |       |       |       |       |       |       |       |       |       |       |     |     |     |       |
| OVERALL CALCULATED     |       | 89.4 | 94.2  | 91.6  | 93.6  | 95.3  | 97.2  | 99.1  | 100.4 | 101.0 | 98.9  | 97.7  |     |     |     | 132.7 |
| PAID                   |       | 59.7 | 101.1 | 102.6 | 104.0 | 107.0 | 109.4 | 108.5 | 110.5 | 111.2 | 109.1 | 106.6 |     |     |     |       |

PUMPED IN USA

MUDEL SOUND PRESSURE LEVELS 150.0 dB TO 70.0 dB (100.0 FT. TO 100.0 FT.)

|                     | 53      | 60      | 71      | 81      | 91      | 101     | 111     | 121     | 131     | 141     | 151     | 161     | 171     | 181     | 191     | 201     |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| SIDE LINE 200. FT.  | 50      | 50      | 50      | 50      | 50      | 50      | 50      | 50      | 50      | 50      | 50      | 50      | 50      | 50      | 50      | 50      |
| VEHICLE             | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     |
| LCR                 | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     |
| DATE                | 12/07/0 | 12/07/0 | 12/07/0 | 12/07/0 | 12/07/0 | 12/07/0 | 12/07/0 | 12/07/0 | 12/07/0 | 12/07/0 | 12/07/0 | 12/07/0 | 12/07/0 | 12/07/0 | 12/07/0 | 12/07/0 |
| TIME                | 3:15    | 3:15    | 3:15    | 3:15    | 3:15    | 3:15    | 3:15    | 3:15    | 3:15    | 3:15    | 3:15    | 3:15    | 3:15    | 3:15    | 3:15    | 3:15    |
| TYPE                | 400     | 400     | 400     | 400     | 400     | 400     | 400     | 400     | 400     | 400     | 400     | 400     | 400     | 400     | 400     | 400     |
| BAR                 | 30.1    | 30.1    | 30.1    | 30.1    | 30.1    | 30.1    | 30.1    | 30.1    | 30.1    | 30.1    | 30.1    | 30.1    | 30.1    | 30.1    | 30.1    | 30.1    |
| 101504. (7/2)       | 630     | 630     | 630     | 630     | 630     | 630     | 630     | 630     | 630     | 630     | 630     | 630     | 630     | 630     | 630     | 630     |
| TAF                 | 47.0    | 47.0    | 47.0    | 47.0    | 47.0    | 47.0    | 47.0    | 47.0    | 47.0    | 47.0    | 47.0    | 47.0    | 47.0    | 47.0    | 47.0    | 47.0    |
| T-ET                | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    |
| 12/9. (EG 4)        | 1000    | 1000    | 1000    | 1000    | 1000    | 1000    | 1000    | 1000    | 1000    | 1000    | 1000    | 1000    | 1000    | 1000    | 1000    | 1000    |
| NACT                | 5.55    | 5.55    | 5.55    | 5.55    | 5.55    | 5.55    | 5.55    | 5.55    | 5.55    | 5.55    | 5.55    | 5.55    | 5.55    | 5.55    | 5.55    | 5.55    |
| 1000000. (6/2)      | 2500    | 2500    | 2500    | 2500    | 2500    | 2500    | 2500    | 2500    | 2500    | 2500    | 2500    | 2500    | 2500    | 2500    | 2500    | 2500    |
| NFA                 | 7070.0  | 7070.0  | 7070.0  | 7070.0  | 7070.0  | 7070.0  | 7070.0  | 7070.0  | 7070.0  | 7070.0  | 7070.0  | 7070.0  | 7070.0  | 7070.0  | 7070.0  | 7070.0  |
| 025. (M2/SEC)       | 4000    | 4000    | 4000    | 4000    | 4000    | 4000    | 4000    | 4000    | 4000    | 4000    | 4000    | 4000    | 4000    | 4000    | 4000    | 4000    |
| NFR                 | 7071.0  | 7071.0  | 7071.0  | 7071.0  | 7071.0  | 7071.0  | 7071.0  | 7071.0  | 7071.0  | 7071.0  | 7071.0  | 7071.0  | 7071.0  | 7071.0  | 7071.0  | 7071.0  |
| 035. (M2/SEC)       | 6000    | 6000    | 6000    | 6000    | 6000    | 6000    | 6000    | 6000    | 6000    | 6000    | 6000    | 6000    | 6000    | 6000    | 6000    | 6000    |
| NFC                 | 8623.0  | 8623.0  | 8623.0  | 8623.0  | 8623.0  | 8623.0  | 8623.0  | 8623.0  | 8623.0  | 8623.0  | 8623.0  | 8623.0  | 8623.0  | 8623.0  | 8623.0  | 8623.0  |
| 024. (M2/SEC)       | 10000   | 10000   | 10000   | 10000   | 10000   | 10000   | 10000   | 10000   | 10000   | 10000   | 10000   | 10000   | 10000   | 10000   | 10000   | 10000   |
| NO. OF FLAPES       | 15      | 15      | 15      | 15      | 15      | 15      | 15      | 15      | 15      | 15      | 15      | 15      | 15      | 15      | 15      | 15      |
| FAR TIP SPEED       | 16000   | 16000   | 16000   | 16000   | 16000   | 16000   | 16000   | 16000   | 16000   | 16000   | 16000   | 16000   | 16000   | 16000   | 16000   | 16000   |
| 600. FT/SEC         | 20000   | 20000   | 20000   | 20000   | 20000   | 20000   | 20000   | 20000   | 20000   | 20000   | 20000   | 20000   | 20000   | 20000   | 20000   | 20000   |
| 45000               | 45000   | 45000   | 45000   | 45000   | 45000   | 45000   | 45000   | 45000   | 45000   | 45000   | 45000   | 45000   | 45000   | 45000   | 45000   | 45000   |
| 73000               | 73000   | 73000   | 73000   | 73000   | 73000   | 73000   | 73000   | 73000   | 73000   | 73000   | 73000   | 73000   | 73000   | 73000   | 73000   | 73000   |
| 63000               | 63000   | 63000   | 63000   | 63000   | 63000   | 63000   | 63000   | 63000   | 63000   | 63000   | 63000   | 63000   | 63000   | 63000   | 63000   | 63000   |
| 80000               | 80000   | 80000   | 80000   | 80000   | 80000   | 80000   | 80000   | 80000   | 80000   | 80000   | 80000   | 80000   | 80000   | 80000   | 80000   | 80000   |
| OVERALL CALCULATION | 64.1    | 66.3    | 67.7    | 69.7    | 71.2    | 72.3    | 73.2    | 73.6    | 72.2    | 69.6    | 66.0    |         |         |         |         |         |
| MUDEL               | 73.6    | 76.1    | 76.5    | 81.4    | 83.5    | 84.7    | 85.2    | 85.1    | 84.1    | 79.6    | 72.2    |         |         |         |         |         |

FORM 110 REV. 10-64

NOISE SOUND PRESSURE LEVELS (50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150) dB(A) @ 70 PERCENT M.M. (AV)

|                    | 50      | 60      | 70      | 80      | 90      | 100     | 110     | 120     | 130     | 140     | 150     |         |         |         |         |         |         |         |         |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| FREQ               | (10.52) | (11.05) | (11.62) | (12.24) | (12.91) | (13.63) | (14.41) | (15.24) | (16.13) | (17.07) | (18.07) | (19.14) | (20.28) | (21.49) | (22.77) | (24.12) | (25.54) | (27.04) | (28.61) |
| RAZIA 17. FT.      | 53      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| ( 5. M)            | 100     | 77.3    | 78.4    | 82.4    | 88.7    | 94.1    | 98.7    | 103.9   | 108.5   | 113.5   | 118.8   | 124.4   | 129.3   | 134.5   | 139.9   | 145.5   | 151.3   | 157.2   | 163.2   |
| VEHICLE R-54       | 170     | 84.8    | 87.4    | 89.6    | 97.7    | 101.1   | 104.7   | 108.4   | 112.2   | 116.1   | 119.9   | 123.8   | 127.8   | 131.8   | 135.8   | 139.8   | 143.8   | 147.8   | 151.8   |
| CC-FIG 9A          | 180     | 84.5    | 85.4    | 85.8    | 86.7    | 87.3    | 87.9    | 88.4    | 88.9    | 89.4    | 89.9    | 90.4    | 90.9    | 91.4    | 91.9    | 92.4    | 92.9    | 93.4    | 93.9    |
| LCC SC-CONNECTARY  | 200     | 85.0    | 84.4    | 86.6    | 88.9    | 97.6    | 101.0   | 104.7   | 108.4   | 112.2   | 116.1   | 119.9   | 123.8   | 127.8   | 131.8   | 135.8   | 139.8   | 143.8   | 147.8   |
| CATE 12/6/74       | 250     | 87.5    | 88.4    | 89.9    | 90.9    | 90.1    | 90.1    | 91.0    | 91.9    | 92.8    | 93.7    | 94.6    | 95.5    | 96.4    | 97.3    | 98.2    | 99.1    | 100.0   | 100.9   |
| RUH 35/12          | 315     | 89.5    | 90.6    | 91.6    | 91.3    | 91.5    | 91.9    | 92.4    | 92.9    | 93.4    | 93.9    | 94.4    | 94.9    | 95.4    | 95.9    | 96.4    | 96.9    | 97.4    | 97.9    |
| TAVE               | 400     | 91.1    | 91.0    | 91.9    | 91.4    | 91.5    | 91.7    | 92.1    | 92.4    | 92.8    | 93.2    | 93.6    | 94.0    | 94.4    | 94.8    | 95.2    | 95.6    | 96.0    | 96.4    |
| BAF 30-1 MG        | 500     | 92.6    | 92.9    | 93.4    | 93.2    | 93.9    | 94.3    | 94.7    | 95.1    | 95.5    | 95.9    | 96.3    | 96.7    | 97.1    | 97.5    | 97.9    | 98.3    | 98.7    | 99.1    |
| (01574. 1/1/0)     | 630     | 90.6    | 91.4    | 92.4    | 93.4    | 94.4    | 95.4    | 96.4    | 97.4    | 98.4    | 99.4    | 100.4   | 101.4   | 102.4   | 103.4   | 104.4   | 105.4   | 106.4   | 107.4   |
| TAMP 47. 100 F     | 870     | 93.9    | 94.7    | 95.6    | 96.4    | 97.3    | 98.2    | 99.1    | 100.0   | 100.9   | 101.8   | 102.7   | 103.6   | 104.5   | 105.4   | 106.3   | 107.2   | 108.1   | 109.0   |
| (21. 100 V)        | 1000    | 97.1    | 97.4    | 97.9    | 98.7    | 99.7    | 100.7   | 101.7   | 102.7   | 103.7   | 104.7   | 105.7   | 106.7   | 107.7   | 108.7   | 109.7   | 110.7   | 111.7   | 112.7   |
| T-ET 40. 100 F     | 1200    | 97.3    | 97.2    | 98.6    | 100.2   | 101.7   | 103.2   | 104.7   | 106.2   | 107.7   | 109.2   | 110.7   | 112.2   | 113.7   | 115.2   | 116.7   | 118.2   | 119.7   | 121.2   |
| (279. 100 V)       | 1600    | 97.4    | 97.7    | 98.1    | 98.5    | 99.5    | 100.0   | 101.1   | 102.1   | 103.1   | 104.1   | 105.1   | 106.1   | 107.1   | 108.1   | 109.1   | 110.1   | 111.1   | 112.1   |
| HACT 5.55 10/13    | 2000    | 97.7    | 97.9    | 98.4    | 98.4    | 99.4    | 100.4   | 101.4   | 102.4   | 103.4   | 104.4   | 105.4   | 106.4   | 107.4   | 108.4   | 109.4   | 110.4   | 111.4   | 112.4   |
| (000555 10/13)     | 2500    | 99.2    | 98.5    | 97.4    | 96.6    | 95.6    | 94.6    | 93.6    | 92.6    | 91.6    | 90.6    | 89.6    | 88.6    | 87.6    | 86.6    | 85.6    | 84.6    | 83.6    | 82.6    |
| NFA 517. 10/13     | 3100    | 93.9    | 95.0    | 96.3    | 98.6    | 101.0   | 103.4   | 105.8   | 108.2   | 110.6   | 113.0   | 115.4   | 117.8   | 120.2   | 122.6   | 125.0   | 127.4   | 129.8   | 132.2   |
| ( 578. 10/13)      | 4000    | 93.6    | 95.7    | 98.0    | 101.4   | 104.8   | 108.2   | 111.6   | 115.0   | 118.4   | 121.8   | 125.2   | 128.6   | 132.0   | 135.4   | 138.8   | 142.2   | 145.6   | 149.0   |
| NFK 592. 10/13     | 5000    | 91.1    | 92.6    | 94.0    | 96.1    | 98.2    | 100.3   | 102.4   | 104.5   | 106.6   | 108.7   | 110.8   | 112.9   | 115.0   | 117.1   | 119.2   | 121.3   | 123.4   | 125.5   |
| ( 594. 10/13)      | 6000    | 91.0    | 91.2    | 92.4    | 93.7    | 95.0    | 96.3    | 97.6    | 98.9    | 100.2   | 101.5   | 102.8   | 104.1   | 105.4   | 106.7   | 108.0   | 109.3   | 110.6   | 111.9   |
| NFE 623. 10/13     | 8000    | 91.3    | 92.4    | 94.0    | 95.7    | 97.4    | 99.1    | 100.8   | 102.5   | 104.2   | 105.9   | 107.6   | 109.3   | 111.0   | 112.7   | 114.4   | 116.1   | 117.8   | 119.5   |
| ( 624. 10/13)      | 10000   | 92.0    | 93.2    | 94.8    | 96.3    | 97.8    | 99.3    | 100.8   | 102.3   | 103.8   | 105.3   | 106.8   | 108.3   | 109.8   | 111.3   | 112.8   | 114.3   | 115.8   | 117.3   |
| NO. OF BLADES 10   | 12000   | 92.0    | 95.7    | 98.1    | 100.3   | 102.5   | 104.7   | 106.9   | 109.1   | 111.3   | 113.5   | 115.7   | 117.9   | 120.1   | 122.3   | 124.5   | 126.7   | 128.9   | 131.1   |
| FAH 11F SPLLE      | 16000   | 92.6    | 95.9    | 98.3    | 100.7   | 103.1   | 105.5   | 107.9   | 110.3   | 112.7   | 115.1   | 117.5   | 119.9   | 122.3   | 124.7   | 127.1   | 129.5   | 131.9   | 134.3   |
| 482. FT/SEC        | 21000   | 93.4    | 95.3    | 97.2    | 99.1    | 101.0   | 102.9   | 104.8   | 106.7   | 108.6   | 110.5   | 112.4   | 114.3   | 116.2   | 118.1   | 120.0   | 121.9   | 123.8   | 125.7   |
|                    | 25000   | 95.2    | 95.1    | 96.4    | 97.7    | 99.0    | 100.3   | 101.6   | 102.9   | 104.2   | 105.5   | 106.8   | 108.1   | 109.4   | 110.7   | 112.0   | 113.3   | 114.6   | 115.9   |
|                    | 31500   | 95.2    | 94.8    | 96.7    | 98.7    | 100.7   | 102.7   | 104.7   | 106.7   | 108.7   | 110.7   | 112.7   | 114.7   | 116.7   | 118.7   | 120.7   | 122.7   | 124.7   | 126.7   |
|                    | 40000   | 95.5    | 94.1    | 95.7    | 97.7    | 99.7    | 101.7   | 103.7   | 105.7   | 107.7   | 109.7   | 111.7   | 113.7   | 115.7   | 117.7   | 119.7   | 121.7   | 123.7   | 125.7   |
|                    | 50000   | 96.6    | 95.3    | 97.4    | 99.5    | 101.6   | 103.7   | 105.8   | 107.9   | 110.0   | 112.1   | 114.2   | 116.3   | 118.4   | 120.5   | 122.6   | 124.7   | 126.8   | 128.9   |
|                    | 63000   | 96.6    | 95.7    | 97.7    | 99.9    | 102.1   | 104.3   | 106.5   | 108.7   | 110.9   | 113.1   | 115.3   | 117.5   | 119.7   | 121.9   | 124.1   | 126.3   | 128.5   | 130.7   |
|                    | 80000   | 97.7    | 98.2    | 98.5    | 98.2    | 98.4    | 98.2    | 98.4    | 98.2    | 98.4    | 98.2    | 98.4    | 98.2    | 98.4    | 98.2    | 98.4    | 98.2    | 98.4    | 98.2    |
| OVERALL MEASURED   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| OVERALL CALCULATED |         | 83.3    | 84.7    | 86.4    | 88.3    | 89.4    | 90.6    | 92.1    | 93.4    | 94.8    | 96.3    | 97.8    | 99.3    | 100.8   | 102.3   | 103.8   | 105.3   | 106.8   | 108.3   |
| PRC                |         | 91.1    | 92.2    | 93.6    | 95.0    | 97.9    | 99.9    | 101.7   | 103.7   | 105.4   | 107.1   | 108.8   | 110.5   | 112.2   | 113.9   | 115.6   | 117.3   | 119.0   | 120.7   |

PAGE 3 FULL SCALE DATA RETENTION

FAIRWAY - WIDTH 12' DAT 10' R.O.

WELL SURVEY PRESSURE LEVELS 100, 150, 200, 250 PERCENT REL. HUM. (AV)

AIR L5 FROM INLET 1. LFE-EPB 1017 PARLAN

FILE NO. (5.92), (11.00), (11.04), (11.07), (11.08), (11.09), (11.10), (11.11), (11.12), (11.13), (11.14), (11.15), (11.16), (11.17), (11.18), (11.19), (11.20), (11.21), (11.22), (11.23), (11.24), (11.25), (11.26), (11.27), (11.28), (11.29), (11.30)

|                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| SIDELINE 200 FT     | 50   | 63   | 70   | 75   | 80   | 85   | 90   | 95   | 100  | 105  | 110  | 115  | 120  | 125  | 130  | 135  | 140  | 145  | 150  | 155  | 160  | 165  | 170  | 175  | 180  | 185  | 190  | 195  | 200  |      |  |
| VEHICLE 1 60.00 PI  | 150  | 55.6 | 58.7 | 60.1 | 62.3 | 62.5 | 64.9 | 57.7 | 56.9 | 49.7 | 49.3 | 48.5 | 47.8 | 47.0 | 46.5 | 44.0 | 45.1 | 46.3 | 46.2 | 45.2 | 45.0 | 43.8 | 43.6 | 43.4 | 43.2 | 43.0 | 42.8 | 42.6 | 42.4 | 42.2 |  |
| VEHICLE 2 60.00 PI  | 150  | 45.0 | 44.6 | 47.5 | 47.3 | 46.9 | 44.0 | 45.1 | 46.3 | 46.2 | 45.2 | 45.0 | 43.8 | 43.6 | 43.4 | 41.0 | 42.1 | 43.3 | 43.2 | 42.2 | 42.0 | 40.8 | 40.6 | 40.4 | 40.2 | 40.0 | 39.8 | 39.6 | 39.4 | 39.2 |  |
| VEHICLE 3 60.00 PI  | 150  | 47.7 | 47.0 | 43.2 | 47.1 | 44.6 | 44.3 | 45.5 | 45.4 | 45.8 | 46.0 | 46.0 | 45.8 | 45.6 | 45.4 | 43.0 | 44.1 | 45.3 | 45.2 | 44.2 | 44.0 | 42.8 | 42.6 | 42.4 | 42.2 | 42.0 | 41.8 | 41.6 | 41.4 | 41.2 |  |
| VEHICLE 4 60.00 PI  | 270  | 41.1 | 41.4 | 44.3 | 47.5 | 45.5 | 46.9 | 46.4 | 46.8 | 46.7 | 47.0 | 47.0 | 46.8 | 46.6 | 46.4 | 44.0 | 45.1 | 46.3 | 46.2 | 45.2 | 45.0 | 43.8 | 43.6 | 43.4 | 43.2 | 43.0 | 42.8 | 42.6 | 42.4 | 42.2 |  |
| VEHICLE 5 60.00 PI  | 270  | 43.4 | 47.5 | 47.1 | 47.3 | 46.2 | 45.1 | 45.4 | 45.7 | 46.1 | 46.1 | 46.0 | 45.8 | 45.6 | 45.4 | 43.0 | 44.1 | 45.3 | 45.2 | 44.2 | 44.0 | 42.8 | 42.6 | 42.4 | 42.2 | 42.0 | 41.8 | 41.6 | 41.4 | 41.2 |  |
| VEHICLE 6 60.00 PI  | 315  | 47.4 | 47.2 | 49.1 | 49.3 | 47.7 | 47.0 | 47.0 | 47.4 | 47.8 | 47.8 | 47.7 | 47.5 | 47.3 | 47.1 | 44.7 | 45.8 | 47.0 | 46.9 | 45.9 | 45.7 | 44.5 | 44.3 | 44.1 | 43.9 | 43.7 | 43.5 | 43.3 | 43.1 | 42.9 |  |
| VEHICLE 7 60.00 PI  | 440  | 43.0 | 46.4 | 47.3 | 47.2 | 43.6 | 42.9 | 43.4 | 43.8 | 44.2 | 44.2 | 44.1 | 43.9 | 43.7 | 43.5 | 41.1 | 42.2 | 43.4 | 43.3 | 42.3 | 42.1 | 40.9 | 40.7 | 40.5 | 40.3 | 40.1 | 39.9 | 39.7 | 39.5 | 39.3 |  |
| VEHICLE 8 60.00 PI  | 520  | 43.0 | 45.5 | 46.7 | 47.3 | 45.7 | 44.4 | 44.7 | 45.4 | 45.4 | 45.4 | 45.3 | 45.1 | 44.9 | 44.7 | 42.3 | 43.4 | 44.6 | 44.5 | 43.5 | 43.3 | 42.1 | 41.9 | 41.7 | 41.5 | 41.3 | 41.1 | 40.9 | 40.7 | 40.5 |  |
| VEHICLE 9 60.00 PI  | 650  | 46.1 | 47.9 | 47.6 | 51.1 | 49.7 | 48.3 | 48.5 | 48.9 | 49.3 | 49.3 | 49.2 | 49.0 | 48.8 | 48.6 | 46.2 | 47.3 | 48.5 | 48.4 | 47.4 | 47.2 | 46.0 | 45.8 | 45.6 | 45.4 | 45.2 | 45.0 | 44.8 | 44.6 | 44.4 |  |
| VEHICLE 10 60.00 PI | 800  | 47.1 | 45.6 | 50.8 | 50.1 | 48.7 | 47.3 | 47.5 | 48.3 | 48.3 | 48.3 | 48.2 | 48.0 | 47.8 | 47.6 | 45.2 | 46.3 | 47.5 | 47.4 | 46.4 | 46.2 | 45.0 | 44.8 | 44.6 | 44.4 | 44.2 | 44.0 | 43.8 | 43.6 | 43.4 |  |
| VEHICLE 11 60.00 PI | 1000 | 47.1 | 45.6 | 50.8 | 50.1 | 48.7 | 47.3 | 47.5 | 48.3 | 48.3 | 48.3 | 48.2 | 48.0 | 47.8 | 47.6 | 45.2 | 46.3 | 47.5 | 47.4 | 46.4 | 46.2 | 45.0 | 44.8 | 44.6 | 44.4 | 44.2 | 44.0 | 43.8 | 43.6 | 43.4 |  |
| VEHICLE 12 60.00 PI | 1200 | 45.3 | 47.2 | 51.5 | 50.5 | 49.1 | 47.7 | 47.9 | 48.7 | 48.7 | 48.7 | 48.6 | 48.4 | 48.2 | 48.0 | 45.6 | 46.7 | 47.9 | 47.8 | 46.8 | 46.6 | 45.4 | 45.2 | 45.0 | 44.8 | 44.6 | 44.4 | 44.2 | 44.0 | 43.8 |  |
| VEHICLE 13 60.00 PI | 1400 | 42.2 | 43.6 | 47.4 | 51.5 | 49.7 | 48.3 | 48.5 | 49.3 | 49.3 | 49.3 | 49.2 | 49.0 | 48.8 | 48.6 | 46.2 | 47.3 | 48.5 | 48.4 | 47.4 | 47.2 | 46.0 | 45.8 | 45.6 | 45.4 | 45.2 | 45.0 | 44.8 | 44.6 | 44.4 |  |
| VEHICLE 14 60.00 PI | 1600 | 38.2 | 40.6 | 42.4 | 42.7 | 42.3 | 42.0 | 42.0 | 42.4 | 42.8 | 42.8 | 42.7 | 42.5 | 42.3 | 42.1 | 40.1 | 41.2 | 42.4 | 42.3 | 41.3 | 41.1 | 40.1 | 39.9 | 39.7 | 39.5 | 39.3 | 39.1 | 38.9 | 38.7 | 38.5 |  |
| VEHICLE 15 60.00 PI | 1800 | 39.5 | 41.9 | 43.9 | 44.5 | 43.6 | 43.3 | 43.3 | 43.7 | 44.1 | 44.1 | 44.0 | 43.8 | 43.6 | 43.4 | 41.4 | 42.5 | 43.7 | 43.6 | 42.6 | 42.4 | 41.4 | 41.2 | 41.0 | 40.8 | 40.6 | 40.4 | 40.2 | 40.0 | 39.8 |  |
| VEHICLE 16 60.00 PI | 2000 | 37.3 | 40.1 | 42.3 | 47.1 | 47.6 | 47.9 | 47.9 | 48.3 | 48.7 | 48.7 | 48.6 | 48.4 | 48.2 | 48.0 | 46.0 | 47.1 | 48.3 | 48.2 | 47.2 | 47.0 | 46.0 | 45.8 | 45.6 | 45.4 | 45.2 | 45.0 | 44.8 | 44.6 | 44.4 |  |
| VEHICLE 17 60.00 PI | 2200 | 37.2 | 39.1 | 37.3 | 41.3 | 44.1 | 44.1 | 44.1 | 44.5 | 44.9 | 44.9 | 44.8 | 44.6 | 44.4 | 44.2 | 42.2 | 43.3 | 44.5 | 44.4 | 43.4 | 43.2 | 42.2 | 42.0 | 41.8 | 41.6 | 41.4 | 41.2 | 41.0 | 40.8 | 40.6 |  |
| VEHICLE 18 60.00 PI | 2400 | 32.1 | 34.8 | 37.3 | 37.3 | 41.3 | 43.2 | 44.2 | 44.2 | 44.6 | 44.6 | 44.5 | 44.3 | 44.1 | 43.9 | 41.9 | 43.0 | 44.2 | 44.1 | 43.1 | 42.9 | 41.9 | 41.7 | 41.5 | 41.3 | 41.1 | 40.9 | 40.7 | 40.5 | 40.3 |  |
| VEHICLE 19 60.00 PI | 2600 | 32.1 | 34.8 | 37.4 | 37.4 | 41.4 | 43.3 | 44.3 | 44.3 | 44.7 | 44.7 | 44.6 | 44.4 | 44.2 | 44.0 | 42.0 | 43.1 | 44.3 | 44.2 | 43.2 | 43.0 | 42.0 | 41.8 | 41.6 | 41.4 | 41.2 | 41.0 | 40.8 | 40.6 | 40.4 |  |
| VEHICLE 20 60.00 PI | 2800 | 31.7 | 33.7 | 36.6 | 36.7 | 42.3 | 45.3 | 47.5 | 47.5 | 47.5 | 47.5 | 47.4 | 47.2 | 47.0 | 46.8 | 44.8 | 45.9 | 47.1 | 47.0 | 46.0 | 45.8 | 44.8 | 44.6 | 44.4 | 44.2 | 44.0 | 43.8 | 43.6 | 43.4 | 43.2 |  |
| VEHICLE 21 60.00 PI | 3000 | 30.5 | 33.3 | 35.6 | 35.7 | 42.1 | 44.2 | 46.7 | 46.7 | 46.7 | 46.7 | 46.6 | 46.4 | 46.2 | 46.0 | 44.0 | 45.1 | 46.3 | 46.2 | 45.2 | 45.0 | 44.0 | 43.8 | 43.6 | 43.4 | 43.2 | 43.0 | 42.8 | 42.6 | 42.4 |  |
| VEHICLE 22 60.00 PI | 3200 | 24.1 | 26.7 | 28.7 | 27.1 | 37.1 | 39.2 | 40.9 | 40.9 | 40.9 | 40.9 | 40.8 | 40.6 | 40.4 | 40.2 | 38.2 | 39.3 | 40.5 | 40.4 | 39.4 | 39.2 | 38.2 | 38.0 | 37.8 | 37.6 | 37.4 | 37.2 | 37.0 | 36.8 | 36.6 |  |
| VEHICLE 23 60.00 PI | 3400 | 11.9 | 15.3 | 19.3 | 23.3 | 27.7 | 29.6 | 27.4 | 27.1 | 27.1 | 27.1 | 27.0 | 26.8 | 26.6 | 26.4 | 24.4 | 25.5 | 26.7 | 26.6 | 25.6 | 25.4 | 24.4 | 24.2 | 24.0 | 23.8 | 23.6 | 23.4 | 23.2 | 23.0 | 22.8 |  |
| VEHICLE 24 60.00 PI | 3600 | 4.2  | 7.6  | 15.1 | 18.6 | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 | 20.2 | 20.0 | 19.8 | 19.6 | 17.6 | 18.7 | 19.9 | 19.8 | 18.8 | 18.6 | 17.6 | 17.4 | 17.2 | 17.0 | 16.8 | 16.6 | 16.4 | 16.2 | 16.0 |  |
| VEHICLE 25 60.00 PI | 3800 |      |      |      | 1.1  | 3.2  | 2.5  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| VEHICLE 26 60.00 PI |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| VEHICLE 27 60.00 PI |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| VEHICLE 28 60.00 PI |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| VEHICLE 29 60.00 PI |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| VEHICLE 30 60.00 PI |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| OVERALL CALC.       |      | 58.3 | 60.1 | 63.3 | 62.7 | 56.6 | 67.3 | 67.4 | 66.4 | 64.4 | 63.4 | 65.5 | 65.3 | 65.1 | 62.9 | 64.0 | 65.2 | 65.1 | 64.1 | 63.9 | 62.9 | 61.9 | 61.7 | 61.5 | 61.3 | 61.1 | 60.9 | 60.7 | 60.5 | 60.3 |  |
| PAGE 3              |      | 65.2 | 67.5 | 69.4 | 72.5 | 74.7 | 76.5 | 77.7 | 76.7 | 75.4 | 72.7 | 62.7 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |

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ORIGINAL PAGE IS OF POOR QUALITY

MODEL SOUND PRESSURE LEVELS (55, 65, 70 PERCENT REL. HUM., DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    |       | 55     | 65     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 159    | 0.  | 0.   | 0.   | 0.   | 0.   | 0.   | Pd   |       |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|------|------|------|------|------|------|-------|
|                    |       | (1.92) | (1.04) | (1.24) | (1.41) | (1.59) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0. | (10. | (10. | (10. | (10. | (10. | (10. |       |
|                    |       | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 160 | 170  | 180  | 190  | 200  | 210  | 220  |       |
| RADIAL 17. FT.     | 100   | 72.5   | 76.4   | 80.4   | 82.4   | 82.1   | 81.2   | 79.1   | 71.9   | 65.5   | 74.0   | 79.1   |     |      |      |      |      |      |      | 113.0 |
| VEHICLE            | 125   | 67.5   | 68.1   | 70.9   | 68.4   | 70.4   | 68.4   | 68.1   | 70.9   | 70.5   | 71.0   | 73.9   |     |      |      |      |      |      |      | 169.0 |
| CONFIG             | 160   | 64.5   | 65.9   | 66.4   | 66.4   | 67.1   | 68.0   | 68.0   | 69.4   | 62.0   | 73.0   | 74.1   |     |      |      |      |      |      |      | 187.3 |
| LOC SCHEMATIC      | 230   | 66.0   | 65.1   | 66.4   | 66.7   | 67.4   | 69.1   | 70.4   | 71.4   | 65.5   | 74.8   | 75.0   |     |      |      |      |      |      |      | 110.2 |
| DATE 12/5/74       | 250   | 74.5   | 68.4   | 70.1   | 69.4   | 70.1   | 70.6   | 72.1   | 72.1   | 70.5   | 73.0   | 74.3   |     |      |      |      |      |      |      | 107.1 |
| RUN 70/1           | 315   | 72.3   | 70.6   | 71.4   | 71.4   | 71.9   | 71.9   | 72.1   | 71.0   | 68.2   | 74.1   | 73.0   |     |      |      |      |      |      |      | 112.7 |
| TAPE               | 420   | 67.8   | 69.1   | 69.4   | 69.7   | 69.0   | 70.7   | 71.1   | 71.0   | 67.2   | 73.3   | 73.1   |     |      |      |      |      |      |      | 111.7 |
| 948                | 500   | 67.9   | 69.4   | 70.4   | 70.7   | 71.4   | 73.2   | 74.0   | 74.9   | 61.5   | 75.0   | 73.0   |     |      |      |      |      |      |      | 108.0 |
| 101305             | 630   | 71.4   | 71.9   | 73.4   | 72.9   | 74.9   | 76.2   | 78.1   | 77.9   | 63.5   | 78.3   | 78.1   |     |      |      |      |      |      |      | 111.4 |
| TAB 39             | 800   | 75.4   | 74.9   | 75.1   | 75.4   | 77.1   | 78.4   | 79.8   | 79.4   | 67.0   | 79.1   | 76.1   |     |      |      |      |      |      |      | 113.0 |
| 1277               | 1000  | 71.1   | 72.4   | 72.1   | 73.0   | 74.4   | 75.4   | 77.1   | 68.0   | 64.7   | 80.3   | 74.0   |     |      |      |      |      |      |      | 113.0 |
| YMET 35            | 1250  | 72.7   | 71.9   | 75.1   | 77.0   | 70.2   | 81.5   | 83.1   | 82.9   | 63.7   | 84.4   | 76.1   |     |      |      |      |      |      |      | 114.9 |
| 1275               | 1600  | 68.4   | 68.9   | 71.1   | 73.0   | 74.7   | 77.2   | 78.3   | 77.9   | 64.2   | 79.4   | 74.0   |     |      |      |      |      |      |      | 111.7 |
| WACT 4.33          | 2000  | 66.9   | 67.0   | 68.1   | 69.1   | 74.2   | 71.8   | 73.3   | 73.6   | 62.2   | 74.4   | 73.9   |     |      |      |      |      |      |      | 100.0 |
| 1.00427            | 2500  | 64.2   | 64.0   | 64.6   | 70.9   | 74.5   | 74.3   | 74.3   | 74.9   | 60.7   | 74.2   | 77.9   |     |      |      |      |      |      |      | 105.1 |
| NPA 5450           | 3150  | 65.9   | 65.7   | 67.1   | 68.4   | 73.5   | 73.5   | 75.0   | 75.0   | 60.0   | 78.0   | 75.0   |     |      |      |      |      |      |      | 100.0 |
| 1 571              | 4000  | 64.9   | 67.2   | 69.1   | 70.4   | 74.9   | 75.0   | 77.0   | 77.3   | 65.4   | 79.0   | 79.3   |     |      |      |      |      |      |      | 112.0 |
| NPA 5500           | 5000  | 61.1   | 63.2   | 64.5   | 66.1   | 68.5   | 70.9   | 73.2   | 74.2   | 70.4   | 73.3   | 75.5   |     |      |      |      |      |      |      | 100.0 |
| 1 583              | 6300  | 67.2   | 62.0   | 62.7   | 64.3   | 67.1   | 68.7   | 70.2   | 71.3   | 72.7   | 71.3   | 75.3   |     |      |      |      |      |      |      | 105.2 |
| NPA 8823           | 8300  | 60.6   | 62.7   | 64.3   | 65.0   | 67.0   | 70.9   | 72.2   | 70.3   | 66.6   | 75.0   | 77.7   |     |      |      |      |      |      |      | 100.0 |
| 1 924              | 10000 | 67.4   | 63.0   | 65.4   | 66.6   | 69.4   | 72.7   | 75.0   | 77.3   | 70.9   | 78.0   | 79.9   |     |      |      |      |      |      |      | 105.5 |
| NO. OF BLAFLS      | 12500 | 64.2   | 65.5   | 66.7   | 68.4   | 71.4   | 73.4   | 76.9   | 79.4   | 67.1   | 79.9   | 80.0   |     |      |      |      |      |      |      | 111.5 |
| PAN TIP SPEED      | 16000 | 64.2   | 63.7   | 65.1   | 67.1   | 70.3   | 72.9   | 76.0   | 79.2   | 67.9   | 78.2   | 80.0   |     |      |      |      |      |      |      | 111.2 |
| 470. FT/SEC        | 20000 | 64.0   | 64.1   | 66.3   | 66.0   | 72.1   | 75.2   | 78.4   | 81.0   | 67.0   | 80.0   | 78.0   |     |      |      |      |      |      |      | 112.0 |
|                    | 25000 | 64.1   | 65.0   | 64.9   | 69.4   | 72.9   | 75.7   | 77.0   | 80.2   | 67.5   | 79.2   | 75.9   |     |      |      |      |      |      |      | 112.7 |
|                    | 31500 | 64.4   | 65.9   | 67.9   | 70.7   | 74.0   | 76.0   | 80.4   | 82.7   | 67.1   | 81.2   | 74.7   |     |      |      |      |      |      |      | 110.0 |
|                    | 40000 | 64.0   | 64.0   | 66.7   | 67.0   | 71.4   | 75.0   | 78.4   | 79.0   | 67.5   | 79.2   | 70.7   |     |      |      |      |      |      |      | 113.1 |
|                    | 50000 | 72.3   | 64.0   | 67.9   | 66.3   | 68.0   | 70.7   | 73.9   | 74.1   | 71.4   | 74.9   | 67.6   |     |      |      |      |      |      |      | 112.1 |
|                    | 63000 | 78.7   | 67.9   | 68.2   | 66.1   | 67.4   | 67.4   | 69.0   | 69.3   | 67.5   | 68.5   | 66.3   |     |      |      |      |      |      |      | 113.0 |
|                    | 80000 | 76.3   | 66.0   | 69.7   | 66.1   | 67.2   | 67.3   | 67.0   | 67.4   | 67.4   | 66.1   | 65.7   |     |      |      |      |      |      |      | 110.0 |
| OVERALL MEASURED   |       |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |      |      |       |
| GENERAL CALCULATED |       | 85.4   | 83.0   | 85.0   | 87.0   | 84.0   | 88.0   | 91.3   | 92.2   | 87.7   | 92.5   | 90.0   |     |      |      |      |      |      |      | 120.0 |
| Pd/D               |       | 91.7   | 93.0   | 94.2   | 95.7   | 94.3   | 99.5   | 101.0  | 101.4  | 100.0  | 102.9  | 102.3  |     |      |      |      |      |      |      |       |

NK

| PRG. NO.          | 53    | 62   | 71   | 81   | 91   | 101  | 111  | 121  | 131  | 141  | 150  | 0    | 0  | 0  | 0  | 0  | 0  |
|-------------------|-------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|
| SIRELINF 200. FT. | 50    | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50 | 50 | 50 | 50 | 50 |
| VEHICLE           | 125   | 43.0 | 45.3 | 47.7 | 49.6 | 49.7 | 48.4 | 45.9 | 40.9 | 50.0 | 48.8 | 45.0 |    |    |    |    |    |
| COMPIC            | 100   | 42.7 | 43.0 | 44.2 | 44.6 | 44.4 | 45.0 | 45.2 | 46.2 | 51.3 | 46.0 | 43.0 |    |    |    |    |    |
| LCC SCHEMATIC     | 200   | 42.1 | 42.1 | 44.1 | 44.7 | 44.9 | 47.2 | 47.9 | 48.1 | 46.7 | 47.9 | 43.9 |    |    |    |    |    |
| DATE 12/5/74      | 250   | 44.5 | 45.3 | 47.7 | 47.4 | 47.4 | 47.0 | 46.6 | 46.7 | 50.0 | 46.7 | 43.9 |    |    |    |    |    |
| WVA 28.1          | 315   | 44.4 | 47.5 | 48.9 | 49.3 | 48.9 | 48.0 | 49.5 | 48.1 | 45.2 | 46.0 | 42.9 |    |    |    |    |    |
| TYPE              | 420   | 43.5 | 45.9 | 46.0 | 47.5 | 47.9 | 47.0 | 47.4 | 46.0 | 45.1 | 45.9 | 41.9 |    |    |    |    |    |
| BAR 3.00 IN       | 500   | 43.4 | 46.6 | 47.7 | 48.4 | 48.2 | 50.9 | 51.0 | 51.2 | 50.2 | 48.6 | 42.0 |    |    |    |    |    |
| (1205. 1/2")      | 600   | 47.1 | 48.4 | 50.0 | 50.0 | 49.7 | 53.0 | 45.2 | 54.0 | 50.1 | 50.0 | 43.3 |    |    |    |    |    |
| TANG 30. LFC F    | 800   | 51.7 | 51.3 | 52.2 | 49.0 | 44.5 | 55.0 | 46.8 | 55.4 | 48.4 | 41.1 | 40.6 |    |    |    |    |    |
| (277. 1/2")       | 1000  | 46.3 | 48.0 | 49.1 | 51.3 | 53.9 | 55.0 | 50.9 | 56.5 | 50.0 | 42.2 | 41.9 |    |    |    |    |    |
| TOE 35. LFC F     | 1200  | 47.7 | 48.0 | 52.0 | 44.3 | 48.0 | 59.7 | 49.0 | 58.6 | 50.0 | 55.9 | 43.3 |    |    |    |    |    |
| (225. 1/2")       | 1400  | 44.2 | 46.0 | 47.0 | 50.0 | 51.9 | 54.3 | 54.0 | 53.4 | 50.1 | 49.7 | 41.4 |    |    |    |    |    |
| WACT 4.23 CM/3    | 2000  | 41.5 | 42.0 | 44.0 | 48.0 | 51.3 | 48.4 | 48.0 | 48.9 | 50.9 | 45.3 | 40.1 |    |    |    |    |    |
| (1.00023 CM/3)    | 2500  | 39.5 | 42.5 | 44.9 | 47.4 | 51.4 | 51.0 | 59.4 | 49.9 | 50.1 | 46.0 | 43.7 |    |    |    |    |    |
| WVA 24.00 CM      | 3150  | 37.9 | 40.9 | 43.1 | 44.9 | 47.1 | 49.0 | 41.0 | 50.3 | 50.0 | 46.0 | 40.7 |    |    |    |    |    |
| (471. 400/SEC)    | 4000  | 37.3 | 41.0 | 43.0 | 46.4 | 49.2 | 51.0 | 52.4 | 51.5 | 50.9 | 49.0 | 43.3 |    |    |    |    |    |
| WVA 5500. CM      | 5000  | 34.2 | 37.6 | 39.0 | 41.0 | 44.4 | 46.7 | 44.3 | 48.2 | 50.5 | 42.3 | 38.9 |    |    |    |    |    |
| (503. 400/SEC)    | 6300  | 32.0 | 35.0 | 37.3 | 39.4 | 42.4 | 43.7 | 44.9 | 44.4 | 40.7 | 39.0 | 30.9 |    |    |    |    |    |
| WVA 8030. CM      | 8000  | 31.7 | 35.1 | 37.7 | 39.6 | 42.0 | 44.0 | 45.4 | 48.1 | 50.4 | 41.3 | 30.4 |    |    |    |    |    |
| (1.024. 400/SEC)  | 10000 | 31.3 | 34.5 | 37.2 | 39.1 | 42.1 | 45.1 | 46.6 | 47.3 | 48.4 | 41.1 | 34.6 |    |    |    |    |    |
| NO. OF PLACES 15  | 12500 | 32.3 | 33.7 | 36.2 | 38.7 | 42.3 | 43.8 | 46.1 | 46.0 | 48.8 | 39.1 | 29.9 |    |    |    |    |    |
| PAN TIP SPEED     | 16000 | 24.7 | 27.0 | 30.0 | 33.7 | 37.2 | 39.3 | 41.3 | 42.3 | 40.2 | 31.0 | 19.7 |    |    |    |    |    |
| 470. FT/SEC       | 20000 | 21.4 | 22.7 | 26.0 | 30.5 | 34.3 | 36.0 | 38.0 | 38.5 | 38.5 | 24.3 | 8.0  |    |    |    |    |    |
|                   | 25000 | 14.8 | 16.3 | 20.3 | 24.3 | 28.2 | 30.4 | 30.5 | 29.8 | 28.2 | 11.3 |      |    |    |    |    |    |
|                   | 31500 | 2.4  | 5.3  | 10.7 | 15.5 | 20.0 | 23.2 | 22.5 | 20.1 | 19.3 |      |      |    |    |    |    |    |
|                   | 40000 |      |      |      |      | 2.1  | 5.2  | 4.7  |      |      |      |      |    |    |    |    |    |
|                   | 50000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |
|                   | 63000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |
|                   | 80000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |
| DEGREE CALIB      | 45.1  | 50.7 | 62.6 | 64.2 | 65.4 | 66.0 | 69.3 | 62.2 | 70.1 | 62.0 | 58.6 |      |    |    |    |    |    |
| WVA               | 64.0  | 68.0 | 70.0 | 72.0 | 74.0 | 75.7 | 76.7 | 78.0 | 60.7 | 72.0 | 66.0 |      |    |    |    |    |    |

NG





WELL SPREAD PRESSURE LEVELS (EG. F. 70 PERCENT REL. M.M. DAY)  
 WELLS DEPT INFT IN (EG. DEPT 1470 GALIANS)

|                    | 63.    | 69.    | 71.    | 61.    | 61.    | 111.   | 111.   | 129.   | 133.   | 149.   | 150.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|
| WELL               | (6.92) | (1.09) | (1.24) | (1.41) | (1.49) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 10.  | 110. | 110. | 110. | 110. |
| SIDE LINE 200. FT. | 199    | 49.1   | 52.7   | 55.3   | 58.8   | 61.2   | 67.9   | 69.9   | 66.3   | 67.0   | 68.0   | 67.0 |      |      |      |      |
| VECTILE 0-45       | 129    | 45.3   | 47.1   | 49.5   | 49.0   | 49.2   | 49.3   | 49.3   | 49.4   | 49.4   | 49.4   | 49.0 |      |      |      |      |
| COALFIE 10         | 100    | 43.4   | 45.7   | 46.7   | 47.3   | 47.9   | 47.4   | 49.0   | 49.2   | 49.6   | 50.0   | 47.0 |      |      |      |      |
| LCC 00-10-10-10-10 | 700    | 43.1   | 45.1   | 46.4   | 47.5   | 48.3   | 53.7   | 46.7   | 51.1   | 51.2   | 51.0   | 47.0 |      |      |      |      |
| DATE 12/17/63      | 230    | 44.2   | 47.5   | 50.4   | 42.0   | 50.7   | 51.1   | 52.1   | 51.5   | 51.1   | 50.2   | 47.2 |      |      |      |      |
| WV 2077            | 310    | 47.0   | 50.7   | 51.4   | 42.1   | 49.0   | 47.4   | 42.7   | 51.0   | 50.7   | 46.3   | 46.2 |      |      |      |      |
| TAPE               | 472    | 45.9   | 48.1   | 49.0   | 49.5   | 49.4   | 55.7   | 50.9   | 51.0   | 50.1   | 49.2   | 49.2 |      |      |      |      |
| 644 30.0 42        | 564    | 45.4   | 44.3   | 49.2   | 50.4   | 51.5   | 53.1   | 44.0   | 53.9   | 52.7   | 49.0   | 49.3 |      |      |      |      |
| 101704. 17/21      | 630    | 49.0   | 50.9   | 53.4   | 53.4   | 44.2   | 54.5   | 57.7   | 50.0   | 55.4   | 57.0   | 46.0 |      |      |      |      |
| 1274. 170 F        | 664    | 52.4   | 53.3   | 54.3   | 54.7   | 44.0   | 54.9   | 54.0   | 57.7   | 56.4   | 53.1   | 49.5 |      |      |      |      |
| 1274. 170 F        | 1000   | 44.1   | 51.1   | 51.0   | 54.3   | 44.4   | 56.3   | 49.2   | 59.0   | 57.5   | 53.0   | 44.1 |      |      |      |      |
| 1274. 170 F        | 1294   | 44.2   | 45.3   | 51.0   | 54.0   | 54.3   | 57.0   | 49.5   | 50.0   | 57.1   | 44.2   | 43.5 |      |      |      |      |
| 1274. 170 F        | 1009   | 49.0   | 53.3   | 55.2   | 56.4   | 44.5   | 50.4   | 47.0   | 58.2   | 57.1   | 44.4   | 43.0 |      |      |      |      |
| WCT 3.03 07/73     | 2030   | 49.4   | 45.7   | 44.1   | 49.4   | 51.3   | 52.4   | 49.4   | 52.2   | 52.1   | 47.4   | 39.4 |      |      |      |      |
| 1.00303 06/73      | 2304   | 42.4   | 47.0   | 47.2   | 51.4   | 49.4   | 53.5   | 43.2   | 52.5   | 52.0   | 47.0   | 36.0 |      |      |      |      |
| WFA 027. 00        | 3154   | 41.2   | 48.9   | 48.9   | 49.4   | 41.0   | 54.7   | 49.0   | 55.4   | 50.0   | 41.0   | 41.7 |      |      |      |      |
| 1.057. 04/73       | 4000   | 41.0   | 49.7   | 48.1   | 56.7   | 47.7   | 54.4   | 50.0   | 50.0   | 50.9   | 51.0   | 41.1 |      |      |      |      |
| WFA 0347. 00       | 5000   | 37.5   | 40.0   | 43.0   | 46.2   | 49.2   | 51.2   | 52.3   | 52.7   | 51.5   | 49.3   | 39.1 |      |      |      |      |
| 1.045. 04/73       | 6204   | 34.7   | 38.4   | 41.1   | 43.0   | 44.9   | 44.2   | 44.2   | 47.7   | 46.0   | 48.3   | 39.0 |      |      |      |      |
| WFA 2023. 00       | 6200   | 34.2   | 37.9   | 41.2   | 43.3   | 44.5   | 44.0   | 49.0   | 50.0   | 49.4   | 42.0   | 39.7 |      |      |      |      |
| 1.024. 04/73       | 10000  | 33.4   | 37.3   | 40.0   | 43.0   | 44.4   | 49.7   | 50.0   | 51.0   | 50.2   | 42.4   | 38.2 |      |      |      |      |
| NO. OF BLADES 15   | 12500  | 34.3   | 36.2   | 39.5   | 42.5   | 44.0   | 44.1   | 49.4   | 50.4   | 49.3   | 46.0   | 34.4 |      |      |      |      |
| PM TIP SPEED 10000 | 16000  | 27.3   | 31.4   | 33.0   | 37.5   | 40.5   | 43.4   | 44.0   | 45.1   | 43.3   | 52.5   | 26.2 |      |      |      |      |
| 644. 07/73         | 20000  | 22.0   | 25.4   | 29.4   | 33.0   | 37.5   | 40.0   | 41.0   | 41.5   | 38.3   | 30.0   | 13.0 |      |      |      |      |
| 27000              | 15.0   | 18.3   | 22.0   | 27.9   | 31.7   | 33.9   | 34.3   | 33.2   | 27.0   | 13.0   |        |      |      |      |      |      |
| 31500              | 3.0    | 6.0    | 13.7   | 19.3   | 24.2   | 26.7   | 24.0   | 23.4   | 16.3   |        |        |      |      |      |      |      |
| 4000               |        |        |        | 1.7    | 4.3    | 6.1    | 6.1    | 3.0    |        |        |        |      |      |      |      |      |
| 5000               |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
| 6000               |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
| 7000               |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
| Overall Calc       | 4700   | 50.2   | 61.0   | 63.1   | 64.5   | 64.2   | 67.5   | 69.2   | 67.0   | 66.0   | 62.0   | 67.0 |      |      |      |      |
| WFA                | 4800   | 48.4   | 72.1   | 73.0   | 75.5   | 77.0   | 70.4   | 68.1   | 70.0   | 70.7   | 78.2   | 67.2 |      |      |      |      |

ORIGINAL FROM  
 W. POOL

MODEL SPRING PRESSURE LEVELS 150, 125, 75, 70 PERCENT REL. HUM. SAT

ANGLE FROM TURT IN DEGREES (AND MAGNITUDE)

|                        | 03    | 05    | 71    | 01    | 01    | 101   | 111   | 125   | 135   | 145   | 150   | 0    | 0   | 0   | 0   | 0   | 0   | 0     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|-----|-----|-----|-------|
| REQ.                   | 15.02 | 11.00 | 11.20 | 11.41 | 11.40 | 11.74 | 11.04 | 12.13 | 12.32 | 12.52 | 12.73 | 10   | 110 | 110 | 110 | 110 | 110 | 110   |
| 53                     |       |       |       |       |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
| 54                     |       |       |       |       |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
| 55                     |       |       |       |       |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
| RADIAL 17. FT.         | 100   | 96.3  | 72.0  | 72.0  | 70.7  | 70.5  | 70.2  | 71.4  | 71.7  | 74.7  | 70.1  | 61.0 |     |     |     |     |     | 100.0 |
| VEHICLE                | 125   | 79.0  | 60.4  | 60.1  | 70.7  | 74.0  | 73.0  | 74.4  | 77.2  | 70.0  | 70.0  | 62.0 |     |     |     |     |     | 112.0 |
| CONIC                  | 100   | 60.3  | 71.4  | 71.0  | 72.2  | 72.4  | 72.7  | 74.0  | 75.7  | 70.0  | 60.0  | 61.0 |     |     |     |     |     | 109.6 |
| LOC SCHELETARY         | 200   | 66.0  | 69.0  | 71.1  | 71.7  | 73.4  | 75.1  | 75.0  | 77.1  | 70.0  | 62.1  | 63.3 |     |     |     |     |     | 111.0 |
| DATE 12/5/70           | 750   | 77.0  | 73.0  | 75.1  | 75.4  | 74.4  | 76.5  | 79.3  | 70.4  | 60.0  | 61.1  | 61.0 |     |     |     |     |     | 111.0 |
| NUM 20/3               | 315   | 73.0  | 70.4  | 70.4  | 70.7  | 77.0  | 74.4  | 70.3  | 70.4  | 79.0  | 61.1  | 61.3 |     |     |     |     |     | 112.3 |
| TAPE                   | 420   | 71.5  | 74.4  | 74.1  | 74.7  | 74.0  | 75.0  | 74.0  | 77.1  | 70.5  | 60.0  | 60.1 |     |     |     |     |     | 110.0 |
| BAR 30.0 MG            | 500   | 77.4  | 74.4  | 74.0  | 73.7  | 70.0  | 74.2  | 69.1  | 60.2  | 60.7  | 61.1  | 70.1 |     |     |     |     |     | 112.4 |
| 101309. 4/21           | 630   | 75.0  | 70.5  | 74.1  | 70.4  | 70.0  | 61.5  | 63.4  | 63.2  | 63.0  | 63.1  | 70.0 |     |     |     |     |     | 112.2 |
| TARD 41. 100 F         | 600   | 70.1  | 70.4  | 74.9  | 79.7  | 60.0  | 62.7  | 63.0  | 63.4  | 63.0  | 63.3  | 70.4 |     |     |     |     |     | 119.0 |
| 1770. 100 H            | 1000  | 74.9  | 70.0  | 77.1  | 79.2  | 61.4  | 63.0  | 64.0  | 64.0  | 64.7  | 63.0  | 70.0 |     |     |     |     |     | 110.3 |
| TURT 35. 100 F         | 1250  | 73.7  | 74.7  | 70.0  | 70.5  | 60.7  | 62.7  | 64.0  | 64.4  | 64.7  | 63.0  | 70.0 |     |     |     |     |     | 110.1 |
| 1275. 100 H            | 1000  | 73.4  | 74.4  | 77.1  | 70.0  | 61.5  | 63.3  | 63.0  | 62.4  | 62.0  | 61.0  | 77.4 |     |     |     |     |     | 113.2 |
| NACT 3.66 64/23        | 2000  | 70.7  | 73.2  | 76.2  | 70.4  | 74.0  | 60.3  | 61.1  | 60.0  | 61.5  | 70.4  | 70.4 |     |     |     |     |     | 113.5 |
| 1.00304 42/23          | 2500  | 70.7  | 73.3  | 74.7  | 70.4  | 74.5  | 70.5  | 60.1  | 60.1  | 62.0  | 70.2  | 75.0 |     |     |     |     |     | 112.0 |
| NFA 7070. 00"          | 3150  | 70.0  | 72.0  | 73.0  | 75.7  | 74.3  | 71.0  | 62.3  | 62.1  | 63.0  | 60.7  | 70.4 |     |     |     |     |     | 114.0 |
| 1 730. 00/SEC          | 4000  | 72.7  | 74.5  | 70.0  | 74.0  | 61.0  | 64.0  | 60.3  | 65.0  | 60.0  | 63.4  | 70.0 |     |     |     |     |     | 117.2 |
| NFA 7154. 00"          | 5000  | 60.2  | 70.5  | 72.0  | 74.7  | 77.5  | 70.0  | 61.2  | 61.0  | 61.7  | 70.4  | 75.3 |     |     |     |     |     | 112.7 |
| 1 740. 00/SEC          | 6000  | 60.0  | 60.4  | 74.0  | 72.0  | 74.0  | 70.4  | 77.5  | 70.1  | 70.0  | 75.0  | 70.0 |     |     |     |     |     | 100.0 |
| NFA 8073. 00"          | 8000  | 65.0  | 64.5  | 70.0  | 72.0  | 75.4  | 70.4  | 60.3  | 61.0  | 62.0  | 70.1  | 70.0 |     |     |     |     |     | 112.7 |
| 1 924. 00/SEC          | 10000 | 67.3  | 69.4  | 72.0  | 75.0  | 77.5  | 60.0  | 63.0  | 64.4  | 65.0  | 61.0  | 70.0 |     |     |     |     |     | 115.5 |
| NO. OF BLADES IS 12500 | 12500 | 60.0  | 70.2  | 73.1  | 70.0  | 70.7  | 67.3  | 64.0  | 60.2  | 67.2  | 63.0  | 62.7 |     |     |     |     |     | 117.3 |
| FOR TIP SPEED 14000    | 14000 | 64.0  | 60.0  | 71.0  | 74.2  | 77.7  | 60.4  | 63.3  | 65.0  | 60.3  | 62.3  | 62.0 |     |     |     |     |     | 110.7 |
| 614. 00/SEC            | 20000 | 60.3  | 69.1  | 72.0  | 75.5  | 78.7  | 62.5  | 65.2  | 60.0  | 60.0  | 64.5  | 64.3 |     |     |     |     |     | 110.2 |
|                        | 24000 | 60.4  | 70.1  | 70.0  | 70.7  | 74.0  | 67.7  | 65.0  | 67.2  | 60.0  | 63.0  | 63.7 |     |     |     |     |     | 110.0 |
|                        | 31500 | 70.1  | 70.0  | 74.0  | 70.1  | 61.7  | 65.0  | 67.3  | 60.3  | 60.0  | 64.0  | 62.4 |     |     |     |     |     | 121.0 |
|                        | 40000 | 60.3  | 60.5  | 71.0  | 70.2  | 70.2  | 62.0  | 65.7  | 67.1  | 67.0  | 63.0  | 70.2 |     |     |     |     |     | 121.4 |
|                        | 50000 | 71.0  | 60.3  | 69.0  | 71.1  | 74.7  | 70.1  | 61.3  | 60.7  | 61.0  | 70.4  | 70.0 |     |     |     |     |     | 110.2 |
|                        | 63000 | 77.0  | 67.3  | 64.0  | 60.0  | 60.1  | 71.0  | 74.3  | 73.0  | 74.3  | 72.1  | 60.1 |     |     |     |     |     | 110.5 |
|                        | 80000 | 75.5  | 67.0  | 60.7  | 60.2  | 60.0  | 60.7  | 60.5  | 67.0  | 67.0  | 67.3  | 60.0 |     |     |     |     |     | 119.0 |
| OVERALL MEASURED       |       |       |       |       |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
| OVERALL CALCULATED     | 67.3  | 64.4  | 60.5  | 60.0  | 63.0  | 65.7  | 67.3  | 60.0  | 64.0  | 60.5  | 65.0  |      |     |     |     |     |     | 120.0 |
| PMU                    | 67.0  | 60.1  | 100.7 | 102.4 | 104.0 | 100.0 | 100.3 | 100.2 | 100.0 | 107.0 | 104.2 |      |     |     |     |     |     |       |

MODEL SOUND PRESSURE LEVELS (50, 100, 150, 200 PERCENT REL. HUM. DAY)

ANGLES FROM (NLF) (N. DEGREE) (AND RADIANS)

| PRF.                        | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 132    | 145    | 159    | 0.   | 0.  | 0.   | 0.   | 0.   | 0.   |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|------|------|------|------|
|                             | (0.92) | (1.07) | (1.24) | (1.41) | (1.58) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | (0. | (10. | (10. | (10. | (10. |
| SU                          | 50     |        |        |        |        |        |        |        |        |        |        |      |     |      |      |      |      |
| 63                          |        |        |        |        |        |        |        |        |        |        |        |      |     |      |      |      |      |
| 80                          |        |        |        |        |        |        |        |        |        |        |        |      |     |      |      |      |      |
| SIDELINE 200. FT.           | 100    | 32.9   | 50.7   | 50.9   | 54.0   | 49.0   | 44.9   | 49.2   | 48.6   | 50.3   | 42.8   | 51.6 |     |      |      |      |      |
| VEHICLE R-55                | 125    | 49.0   | 57.6   | 58.0   | 54.0   | 53.2   | 52.1   | 52.1   | 54.0   | 53.9   | 53.2   | 52.4 |     |      |      |      |      |
| CONFIG 10                   | 160    | 45.4   | 48.7   | 49.7   | 50.3   | 50.6   | 50.8   | 42.5   | 53.4   | 53.3   | 53.8   | 51.4 |     |      |      |      |      |
| LOC SCHEMECTADY             | 200    | 45.1   | 44.9   | 44.8   | 49.7   | 41.9   | 53.2   | 43.4   | 53.8   | 54.2   | 49.1   | 52.7 |     |      |      |      |      |
| DATE 12/5/74                | 250    | 44.0   | 50.5   | 52.7   | 53.4   | 54.5   | 54.6   | 55.0   | 55.0   | 55.1   | 54.0   | 50.7 |     |      |      |      |      |
| RUN 28/3                    | 315    | 49.6   | 53.2   | 53.9   | 54.6   | 54.7   | 56.3   | 45.7   | 54.9   | 54.0   | 53.8   | 50.2 |     |      |      |      |      |
| TAPE                        | 400    | 47.5   | 51.1   | 51.6   | 52.5   | 52.4   | 53.7   | 54.1   | 53.5   | 53.4   | 53.2   | 48.8 |     |      |      |      |      |
| BAR 30.0 MC                 | 500    | 44.4   | 51.0   | 52.2   | 53.4   | 44.7   | 55.9   | 57.3   | 56.4   | 55.5   | 53.5   | 47.8 |     |      |      |      |      |
| (01305. N/M <sup>2</sup> )  | 630    | 51.1   | 53.2   | 55.4   | 56.1   | 47.7   | 59.0   | 63.4   | 59.3   | 57.6   | 55.3   | 48.0 |     |      |      |      |      |
| TAMP 41. DEG F              | 800    | 53.5   | 54.8   | 56.0   | 57.2   | 54.5   | 60.2   | 60.8   | 59.4   | 57.8   | 55.4   | 47.2 |     |      |      |      |      |
| (275. LFC F)                | 1000   | 50.1   | 53.1   | 54.1   | 56.6   | 54.9   | 60.3   | 61.7   | 60.5   | 59.0   | 53.7   | 46.4 |     |      |      |      |      |
| TNET 35. LFC F              | 1250   | 48.7   | 50.8   | 53.5   | 55.4   | 54.1   | 59.9   | 61.5   | 60.1   | 58.8   | 55.5   | 45.7 |     |      |      |      |      |
| (275. DEG F)                | 1500   | 44.2   | 50.3   | 53.8   | 55.9   | 54.7   | 60.3   | 62.3   | 57.9   | 56.6   | 52.9   | 44.1 |     |      |      |      |      |
| NACT 3.64 GM/M <sup>3</sup> | 2000   | 45.2   | 48.9   | 51.6   | 53.5   | 55.8   | 57.1   | 57.4   | 55.9   | 55.1   | 49.4   | 42.6 |     |      |      |      |      |
| (.00364 KG/M <sup>3</sup> ) | 2500   | 45.0   | 48.7   | 50.9   | 53.1   | 54.4   | 56.2   | 56.2   | 55.2   | 55.4   | 49.8   | 41.4 |     |      |      |      |      |
| NFA 7020. RPM               | 3150   | 43.9   | 47.2   | 49.9   | 52.1   | 54.9   | 57.5   | 56.1   | 56.9   | 56.8   | 50.8   | 41.4 |     |      |      |      |      |
| (.734. RAD/SEC)             | 4000   | 46.1   | 49.2   | 52.2   | 55.0   | 57.7   | 60.0   | 61.6   | 60.1   | 58.4   | 52.6   | 43.6 |     |      |      |      |      |
| NFK 7144. RPM               | 5000   | 41.3   | 44.9   | 47.9   | 50.5   | 53.5   | 54.7   | 56.3   | 55.7   | 53.8   | 47.4   | 38.8 |     |      |      |      |      |
| (.740. RAD/SEC)             | 6300   | 38.2   | 42.2   | 45.1   | 47.9   | 50.2   | 51.4   | 51.9   | 51.2   | 50.1   | 43.3   | 39.2 |     |      |      |      |      |
| NFD 8823. RPM               | 8000   | 34.6   | 40.9   | 43.6   | 46.8   | 49.6   | 52.4   | 53.5   | 53.4   | 52.4   | 44.9   | 38.7 |     |      |      |      |      |
| (.924. RAD/SEC)             | 10000  | 36.4   | 40.1   | 43.6   | 47.4   | 50.2   | 53.2   | 55.2   | 54.4   | 53.0   | 45.0   | 34.7 |     |      |      |      |      |
| NO. OF BLADES 15            | 12500  | 35.7   | 38.3   | 42.6   | 45.8   | 49.2   | 52.4   | 54.0   | 53.7   | 51.8   | 43.0   | 31.7 |     |      |      |      |      |
| PAN TIP SPEED               | 16000  | 24.3   | 32.9   | 37.1   | 40.8   | 44.5   | 46.9   | 48.6   | 48.6   | 45.8   | 38.1   | 22.8 |     |      |      |      |      |
| 614. FT/SEC                 | 20000  | 23.6   | 27.7   | 33.2   | 37.3   | 40.8   | 44.1   | 45.4   | 45.5   | 41.5   | 28.8   | 11.8 |     |      |      |      |      |
|                             | 25000  | 16.1   | 20.6   | 26.3   | 31.1   | 35.2   | 38.9   | 38.5   | 36.5   | 31.9   | 16.0   |      |     |      |      |      |      |
|                             | 31500  | 4.0    | 10.2   | 16.9   | 22.9   | 27.2   | 29.8   | 29.4   | 25.8   | 18.2   |        |      |     |      |      |      |      |
|                             | 40000  |        |        |        | 5.0    | 6.8    | 12.4   | 12.0   | 6.9    |        |        |      |     |      |      |      |      |
|                             | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |      |      |      |      |
|                             | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |      |      |      |      |
|                             | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |      |      |      |      |
| OVERALL CALCULATED          |        | 61.8   | 64.3   | 65.6   | 66.9   | 68.7   | 70.2   | 71.2   | 70.9   | 69.0   | 66.2   | 61.2 |     |      |      |      |      |
| PVUS                        |        | 70.7   | 74.0   | 76.5   | 78.7   | 81.8   | 82.8   | 84.8   | 82.7   | 81.8   | 77.8   | 69.1 |     |      |      |      |      |

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MODEL SOUND PRESSURE LEVELS (50. LEG. F. 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                    |       | 51.    | 67.    | 71.    | 91.    | 91.    | 101.   | 111.   | 129.   | 133.   | 145.   | 156.   | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    | PWL   |       |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                    | FREQ. | (0.42) | (1.00) | (1.24) | (1.41) | (1.58) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) |       |
|                    | 50    |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |       |       |       |
|                    | 53    |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |       |       |       |
|                    | 58    |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |       |       |       |
| RADIAL 17. FT.     |       |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |       |       |       |
| ( S. M)            | 100   | 73.3   | 72.3   | 73.4   | 72.9   | 73.0   | 74.1   | 74.1   | 74.1   | 77.4   | 81.5   | 85.8   |       |       |       |       |       |       |       |       | 111.6 |       |
| VEHICLE            | 4-55  | 125    | 76.8   | 79.8   | 81.1   | 80.6   | 81.6   | 80.0   | 81.0   | 83.1   | 83.1   | 84.2   | 86.0  |       |       |       |       |       |       |       |       | 116.2 |
| CONFIG             | 10    | 160    | 75.5   | 75.3   | 76.4   | 75.0   | 76.4   | 75.9   | 78.4   | 79.6   | 81.4   | 83.0   | 85.3  |       |       |       |       |       |       |       |       | 113.3 |
| LOC SC-ELECTADY    |       | 204    | 76.7   | 74.1   | 76.3   | 75.1   | 76.1   | 75.4   | 79.3   | 80.0   | 82.1   | 84.2   | 86.0  |       |       |       |       |       |       |       |       | 114.3 |
| DATE 12/5/76       |       | 250    | 77.7   | 77.0   | 76.0   | 78.6   | 79.3   | 80.3   | 81.0   | 82.3   | 82.9   | 84.7   | 85.0  |       |       |       |       |       |       |       |       | 119.4 |
| RUN 26/6           |       | 315    | 80.4   | 79.1   | 80.6   | 79.4   | 79.9   | 83.0   | 81.1   | 81.4   | 82.4   | 83.7   | 85.0  |       |       |       |       |       |       |       |       | 119.4 |
| TAPE               |       | 400    | 79.0   | 77.3   | 80.3   | 77.0   | 79.0   | 79.0   | 80.1   | 80.9   | 81.9   | 83.2   | 83.0  |       |       |       |       |       |       |       |       | 114.9 |
| BAR 30.0 MC        |       | 500    | 76.3   | 78.1   | 83.0   | 78.9   | 78.6   | 82.1   | 83.1   | 83.0   | 83.4   | 83.9   | 83.3  |       |       |       |       |       |       |       |       | 116.1 |
| (101305. M/P?)     |       | 630    | 76.6   | 79.0   | 85.4   | 81.1   | 82.4   | 83.0   | 85.0   | 85.0   | 85.4   | 84.2   | 82.0  |       |       |       |       |       |       |       |       | 117.9 |
| TAND 41. DFG F     |       | 800    | 84.3   | 82.0   | 86.0   | 82.9   | 84.6   | 85.4   | 87.1   | 86.9   | 86.9   | 85.2   | 84.0  |       |       |       |       |       |       |       |       | 119.0 |
| (270. DFG #)       |       | 1000   | 78.9   | 80.1   | 83.3   | 81.7   | 83.4   | 85.4   | 87.3   | 87.4   | 87.1   | 85.0   | 82.0  |       |       |       |       |       |       |       |       | 116.9 |
| THEY 34. DFG F     |       | 1250   | 76.9   | 77.4   | 80.1   | 81.7   | 83.7   | 84.9   | 86.0   | 86.9   | 86.9   | 85.0   | 82.0  |       |       |       |       |       |       |       |       | 110.4 |
| (275. DFG #)       |       | 1500   | 75.2   | 76.9   | 79.1   | 80.5   | 81.7   | 83.0   | 84.1   | 84.4   | 83.9   | 82.3   | 81.0  |       |       |       |       |       |       |       |       | 110.2 |
| HAET 3.44 CM/P3    |       | 2000   | 74.9   | 76.7   | 78.4   | 79.8   | 81.5   | 82.7   | 83.0   | 84.0   | 83.7   | 82.5   | 82.1  |       |       |       |       |       |       |       |       | 110.3 |
| (.80304 CM/P3)     |       | 2500   | 74.2   | 76.4   | 78.1   | 80.1   | 81.3   | 82.3   | 83.1   | 83.0   | 83.2   | 80.0   | 84.1  |       |       |       |       |       |       |       |       | 115.9 |
| NPA 7701. RPM      |       | 3150   | 72.9   | 75.2   | 76.6   | 78.0   | 80.0   | 83.3   | 84.3   | 84.0   | 86.4   | 81.3   | 85.1  |       |       |       |       |       |       |       |       | 110.6 |
| ( #16. RPM/SEC)    |       | 4000   | 75.4   | 75.2   | 79.0   | 83.1   | 84.0   | 87.2   | 89.0   | 89.3   | 88.9   | 85.0   | 87.0  |       |       |       |       |       |       |       |       | 120.5 |
| NPK 7937. RPM      |       | 5000   | 71.0   | 74.2   | 76.0   | 78.9   | 80.8   | 82.7   | 83.5   | 85.2   | 84.9   | 79.7   | 89.5  |       |       |       |       |       |       |       |       | 110.9 |
| ( #30. RPM/SEC)    |       | 6300   | 70.5   | 72.0   | 75.0   | 77.3   | 78.4   | 80.7   | 80.5   | 82.1   | 82.8   | 77.7   | 82.1  |       |       |       |       |       |       |       |       | 110.6 |
| NPD 8823. RPM      |       | 8000   | 71.2   | 72.7   | 74.3   | 76.0   | 78.4   | 81.0   | 82.0   | 84.1   | 84.0   | 79.7   | 93.4  |       |       |       |       |       |       |       |       | 117.0 |
| ( #24. RPM/SEC)    |       | 10000  | 73.5   | 73.0   | 75.9   | 78.7   | 80.3   | 83.5   | 85.0   | 86.0   | 87.4   | 82.8   | 94.9  |       |       |       |       |       |       |       |       | 120.0 |
| NO. OF BLADES 13   |       | 12500  | 76.0   | 74.9   | 77.0   | 80.5   | 82.2   | 85.0   | 87.2   | 88.0   | 90.4   | 85.4   | 99.7  |       |       |       |       |       |       |       |       | 121.9 |
| PAN TIP SPEED      |       | 14000  | 74.3   | 73.3   | 75.7   | 78.7   | 80.6   | 83.4   | 85.8   | 86.5   | 89.2   | 83.2   | 94.3  |       |       |       |       |       |       |       |       | 121.0 |
| 886. FT/SEC        |       | 20000  | 77.0   | 74.0   | 77.0   | 80.0   | 82.4   | 85.7   | 88.2   | 86.7   | 91.0   | 85.9   | 91.7  |       |       |       |       |       |       |       |       | 122.4 |
|                    |       | 25000  | 79.1   | 78.0   | 78.1   | 80.0   | 83.1   | 85.0   | 88.4   | 91.2   | 92.2   | 87.0   | 95.0  |       |       |       |       |       |       |       |       | 123.4 |
|                    |       | 31500  | 79.3   | 76.2   | 78.7   | 82.1   | 84.5   | 86.0   | 89.2   | 91.0   | 91.4   | 86.0   | 89.0  |       |       |       |       |       |       |       |       | 124.3 |
|                    |       | 40000  | 80.1   | 74.9   | 78.1   | 80.1   | 83.2   | 85.0   | 88.7   | 89.3   | 89.7   | 85.1   | 84.7  |       |       |       |       |       |       |       |       | 124.2 |
|                    |       | 50000  | 82.6   | 74.7   | 78.5   | 77.5   | 79.7   | 81.0   | 84.0   | 84.7   | 84.0   | 81.3   | 81.0  |       |       |       |       |       |       |       |       | 122.3 |
|                    |       | 63000  | 84.0   | 76.5   | 79.3   | 78.3   | 77.0   | 77.0   | 79.5   | 79.3   | 79.0   | 76.7   | 77.9  |       |       |       |       |       |       |       |       | 123.0 |
|                    |       | 80000  | 85.5   | 75.3   | 79.0   | 76.4   | 78.3   | 76.0   | 77.2   | 76.0   | 76.0   | 74.0   | 75.0  |       |       |       |       |       |       |       |       | 125.3 |
| OVERALL MEASURED   |       |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |       |       |       |
| OVERALL CALCULATED |       | 94.5   | 91.7   | 94.0   | 94.4   | 90.1   | 90.0   | 99.9   | 101.0  | 101.5  | 88.3   | 103.7  |       |       |       |       |       |       |       |       |       | 124.0 |
| PdM                |       | 100.0  | 102.5  | 100.7  | 100.0  | 107.0  | 100.5  | 110.9  | 111.0  | 111.0  | 100.7  | 113.2  |       |       |       |       |       |       |       |       |       |       |

↑  
10dB  
high

U.S. GOVERNMENT PRINTING OFFICE: 1963 O 548-100  
 14-58801-1  
 14-58801-1

MODEL SPRING PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INFLT IN DEG/PER (AND RAD/ANG)

PRC. 57. 62. 71. 81. 91. 101. 111. 122. 133. 143. 150. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

| PARAMETER          | 10.92 | 11.00 | 11.24 | 11.41 | 11.46 | 11.70 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 13.0  | 13.0  | 13.0  | 13.0  | 13.0  | 13.0  | 13.0  | 13.0  | 13.0  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SIDELINE 200. FT.  | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   |
| VEHICLE R=55       | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   |
| COAPIC 10          | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   |
| LOC SCHEMECTADY    | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   |
| DATE 12/5/74       | 290   | 290   | 290   | 290   | 290   | 290   | 290   | 290   | 290   | 290   | 290   | 290   | 290   | 290   | 290   | 290   | 290   | 290   | 290   | 290   |
| RUM 24/4           | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   |
| TAPE               | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   |
| BAR 30.0 MC        | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   |
| 101305. M/M21      | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   |
| TAMB 41. CPG F     | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   |
| 1274. LFC F        | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  |
| TMET 35. OFC F     | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  |
| 1274. OFC F        | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  |
| HACT 3.04 G/M3     | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  |
| (-00364. KG/M3)    | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  |
| NFA 7793. RPM      | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  |
| 1 810. RAD/SEC     | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  |
| NFA 7937. RPM      | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  |
| ( 430. RAD/SEC)    | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  |
| NFA 8023. RPM      | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  |
| ( 924. RAD/SEC)    | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 |
| NO. OF PLADFS 15   | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 |
| FAN TIP SPEED      | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 |
| 680. FT/SEC        | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 |
| 25000              | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 |
| 31500              | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 |
| 40000              | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 |
| 50000              | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 |
| 63000              | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 |
| 80000              | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 |
| OVERALL CALCULATED | 65.0  | 67.0  | 70.0  | 70.1  | 71.0  | 72.0  | 73.7  | 73.2  | 71.0  | 69.3  | 68.1  | 68.0  | 68.0  | 68.0  | 68.0  | 68.0  | 68.0  | 68.0  | 68.0  | 68.0  |
| PMDR               | 74.7  | 77.8  | 80.0  | 82.3  | 84.0  | 85.8  | 86.0  | 86.1  | 84.4  | 80.0  | 78.0  | 78.0  | 78.0  | 78.0  | 78.0  | 78.0  | 78.0  | 78.0  | 78.0  | 78.0  |

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PAGE 1 FULL SCALE DATA - DETECTION PROGRAM

TEST SITE: FORT MONROE, VIRGINIA (2000 FT. FROM TARGET) (1500 FT. FROM TARGET) (1000 FT. FROM TARGET) (500 FT. FROM TARGET) (250 FT. FROM TARGET)

DATE: 12/15/74

|                    | 70    | 75   | 80   | 85   | 90   | 95    | 100   | 110   | 120   | 130   | 140   | 150  | 160  | 170  | 180  | 190 | 200   |
|--------------------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|-----|-------|
| RADIAL 17. FT.     | 50    | 50   | 50   | 50   | 50   | 50    | 50    | 50    | 50    | 50    | 50    | 50   | 50   | 50   | 50   | 50  | 50    |
| VEHICLE 5. FT.     | 100   | 65.5 | 65.7 | 72.6 | 74.7 | 74.6  | 73.2  | 68.8  | 68.7  | 68.2  | 71.3  | 73.6 |      |      |      |     | 165.7 |
| CENTRIC 100        | 100   | 75.3 | 77.6 | 72.1 | 67.7 | 71.4  | 67.4  | 67.1  | 71.4  | 71.4  | 71.6  | 72.7 |      |      |      |     | 164.5 |
| LCC SCHELECTAR 210 | 210   | 63.7 | 65.1 | 65.6 | 69.7 | 69.6  | 65.0  | 63.8  | 68.6  | 70.6  | 73.8  | 73.6 |      |      |      |     | 162.7 |
| RUN 20/21          | 315   | 67.8 | 71.1 | 71.6 | 71.0 | 71.3  | 72.7  | 72.7  | 72.7  | 72.7  | 72.1  | 72.6 | 74.1 | 74.1 |      |     | 165.3 |
| TAMP 41. DEG F     | 800   | 75.1 | 75.4 | 75.9 | 76.4 | 77.6  | 79.7  | 80.4  | 80.6  | 80.2  | 80.6  | 77.4 |      |      |      |     | 112.5 |
| T-ET 37. DEG F     | 1250  | 74.7 | 75.2 | 75.1 | 75.7 | 77.2  | 77.2  | 77.2  | 77.2  | 77.2  | 77.2  | 77.2 | 77.2 | 77.2 | 77.2 |     | 120.  |
| MACT 4.66 CM/FT    | 2000  | 61.5 | 66.5 | 67.9 | 69.6 | 70.7  | 72.3  | 72.6  | 73.4  | 75.5  | 75.4  | 79.6 |      |      |      |     | 160.1 |
| HFA 5443. API      | 3150  | 62.7 | 66.2 | 67.4 | 69.1 | 71.1  | 73.3  | 74.3  | 75.3  | 75.4  | 76.7  | 76.9 | 76.7 | 76.9 |      |     | 160.7 |
| HFK 5540. API      | 5000  | 62.1 | 63.7 | 64.4 | 67.1 | 68.7  | 71.4  | 75.7  | 74.7  | 75.4  | 73.3  | 77.5 |      |      |      |     | 160.  |
| MFC 8A23. API      | 8000  | 61.8 | 63.4 | 64.4 | 67.0 | 68.7  | 71.1  | 75.0  | 76.7  | 77.0  | 75.7  | 71.1 |      |      |      |     | 160.  |
| NG. OF BLADES 15   | 16500 | 67.2 | 64.2 | 65.1 | 72.0 | 70.3  | 73.0  | 71.6  | 75.1  | 81.4  | 79.0  | 74.0 |      |      |      |     | 112.  |
| 475. FT/SEC        | 20000 | 64.2 | 64.6 | 64.6 | 74.2 | 72.4  | 74.2  | 71.9  | 81.2  | 82.1  | 80.5  | 75.5 |      |      |      |     | 113.  |
| 25000              |       | 65.7 | 65.6 | 66.7 | 74.7 | 72.9  | 76.2  | 81.8  | 81.5  | 82.3  | 79.7  | 74.2 |      |      |      |     | 115.  |
| 31500              |       | 65.0 | 65.8 | 67.0 | 72.3 | 74.9  | 79.4  | 81.7  | 82.8  | 83.9  | 81.3  | 79.3 |      |      |      |     | 110.2 |
| 40000              |       | 65.1 | 64.2 | 64.6 | 68.6 | 71.6  | 75.0  | 72.4  | 75.7  | 81.4  | 79.7  | 69.9 |      |      |      |     | 114.  |
| 50000              |       | 67.0 | 64.5 | 64.6 | 66.4 | 67.7  | 71.0  | 74.7  | 74.4  | 75.4  | 74.9  | 65.2 |      |      |      |     | 112.  |
| 63000              |       | 69.0 | 65.2 | 64.7 | 64.6 | 64.4  | 67.3  | 69.8  | 68.7  | 66.2  | 66.7  | 63.3 |      |      |      |     | 110.  |
| 80000              |       | 71.0 | 67.5 | 70.1 | 66.3 | 67.0  | 67.9  | 68.2  | 67.0  | 66.0  | 66.6  | 65.2 |      |      |      |     | 114.  |
| OVERALL MEASURED   |       | 67.7 | 67.7 | 65.3 | 66.0 | 69.4  | 62.9  | 74.3  | 63.1  | 63.0  | 63.2  | 60.6 |      |      |      |     | 120.  |
| OVERALL CALCULATED |       | 67.7 | 67.7 | 65.3 | 66.0 | 69.4  | 62.9  | 74.3  | 63.1  | 63.0  | 63.2  | 60.6 |      |      |      |     | 120.  |
| PNEP               |       | 91.9 | 92.9 | 94.8 | 97.7 | 100.3 | 102.0 | 103.6 | 101.9 | 103.0 | 103.4 | 98.4 |      |      |      |     |       |

ORIGINAL PAGE IS  
 OF POOR QUALITY

PRNG. 100 200 300 400 500 600 700 800 900 1000

| SIZE, INE            | 200 FT. | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 |
|----------------------|---------|------|------|------|------|------|------|------|------|
| VEHICLE              | 125     | 41.9 | 44.2 | 50.0 | 53.0 | 53.0 | 51.0 | 47.2 | 41.4 |
| CONFIG               | 160     | 39.0 | 42.7 | 47.4 | 47.4 | 44.9 | 44.0 | 47.0 | 47.0 |
| LEC. SCH. REFLECTARY | 200     | 41.7 | 41.2 | 40.1 | 40.2 | 47.6 | 41.0 | 47.7 | 47.3 |
| DATE 12/5/74         | 250     | 44.2 | 45.4 | 45.0 | 47.1 | 47.0 | 46.3 | 44.4 | 46.5 |
| RUN 28/21            | 315     | 45.6 | 47.2 | 49.1 | 47.4 | 46.9 | 51.4 | 46.7 | 41.6 |
| TYPE                 | 400     | 44.0 | 47.4 | 46.1 | 47.0 | 47.3 | 47.7 | 47.1 | 47.3 |
| GAP 30.0 IN          | 500     | 43.7 | 46.2 | 47.8 | 47.2 | 47.5 | 51.0 | 50.3 | 51.0 |
| (01305) 1/2/74       | 700     | 46.4 | 49.2 | 51.1 | 51.2 | 50.2 | 54.0 | 57.7 | 54.3 |
| TANG 41 DEG F        | 800     | 51.4 | 51.2 | 43.0 | 57.0 | 55.3 | 57.2 | 57.5 | 57.7 |
| (274) DEC F          | 1000    | 47.1 | 48.6 | 46.8 | 50.4 | 54.9 | 57.0 | 57.7 | 57.0 |
| T-ET 37 DEG F        | 1200    | 49.7 | 51.2 | 46.2 | 60.2 | 64.6 | 67.2 | 66.8 | 61.4 |
| (276) DEC F          | 1400    | 44.4 | 46.1 | 46.1 | 53.5 | 55.9 | 56.3 | 57.3 | 54.0 |
| NACT 4.66 20/74      | 2000    | 39.5 | 42.1 | 46.3 | 47.5 | 47.4 | 47.0 | 46.9 | 47.7 |
| (06488) 20/73        | 2500    | 43.3 | 43.0 | 45.4 | 47.8 | 50.1 | 47.0 | 51.4 | 51.4 |
| NFA 5440 RPM         | 3100    | 38.6 | 41.4 | 47.3 | 47.4 | 47.6 | 51.2 | 51.1 | 51.4 |
| (570) 20/74          | 4000    | 35.7 | 41.4 | 43.4 | 47.0 | 47.9 | 51.0 | 51.4 | 51.1 |
| NFK 5540 RPP         | 5000    | 35.2 | 38.1 | 46.0 | 47.0 | 44.7 | 47.2 | 51.4 | 47.7 |
| (580) 20/74          | 6300    | 33.2 | 35.0 | 37.8 | 41.1 | 42.1 | 44.2 | 51.3 | 42.6 |
| NFD 8020 RPP         | 8000    | 32.7 | 35.3 | 36.2 | 40.2 | 42.2 | 45.0 | 51.2 | 47.0 |
| (924) 20/74          | 10000   | 31.8 | 34.4 | 37.1 | 40.4 | 42.5 | 45.0 | 51.4 | 47.0 |
| NO. OF BLADES 15     | 12000   | 31.7 | 33.2 | 36.0 | 42.6 | 42.5 | 44.3 | 51.5 | 47.3 |
| VAL. TIP SPEED       | 16000   | 24.6 | 28.2 | 30.7 | 35.4 | 37.1 | 41.3 | 47.2 | 47.2 |
| 475 FT/SEC           | 20000   | 19.6 | 23.1 | 27.2 | 30.0 | 34.5 | 37.0 | 42.1 | 31.7 |
|                      | 25000   | 12.4 | 16.4 | 20.1 | 21.4 | 26.2 | 31.0 | 33.2 | 25.0 |
|                      | 31500   |      | 5.2  | 9.4  | 17.2 | 20.4 | 22.0 | 23.9 | 21.2 |
|                      | 40000   |      |      |      |      | 2.3  | 5.4  | 4.7  |      |
|                      | 50000   |      |      |      |      |      |      |      |      |
|                      | 63000   |      |      |      |      |      |      |      |      |
|                      | 80000   |      |      |      |      |      |      |      |      |
| OVERALL CALC. LAFC   |         | 57.6 | 59.2 | 61.7 | 64.4 | 67.3 | 69.4 | 67.0 | 67.0 |
| PNCF                 |         | 66.0 | 68.1 | 70.9 | 74.3 | 77.2 | 79.3 | 79.6 | 70.6 |



|                     | 20    | 25   | 30   | 35   | 40    | 45    | 50    | 55    | 60    | 65    | 70    | 75    | 80 | 85 | 90 | 95 | 100   |
|---------------------|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-------|
| RATIO 17. FT.       | 63    | 63   | 63   | 63   | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63 | 63 | 63 | 63 | 63    |
| VEHICLE (5. H) Ross | 100   | 76.3 | 77.1 | 74.4 | 72.4  | 69.4  | 71.4  | 73.9  | 67.7  | 72.7  | 70.1  | 77.9  |    |    |    |    | 117.6 |
| CONFIG 10R          | 120   | 71.5 | 69.1 | 22.4 | 69.9  | 72.6  | 70.4  | 75.1  | 72.4  | 73.7  | 70.4  | 77.1  |    |    |    |    | 110.9 |
| LOC SCHEDULE        | 160   | 67.3 | 64.9 | 64.5 | 67.9  | 67.1  | 59.4  | 71.1  | 72.7  | 74.5  | 70.5  | 77.1  |    |    |    |    | 110.3 |
| DATE 12/5/74        | 200   | 70.0 | 67.9 | 64.4 | 67.4  | 70.1  | 72.1  | 72.5  | 74.9  | 75.5  | 71.4  | 75.2  |    |    |    |    | 117.0 |
| RLI 29/22           | 310   | 71.0 | 74.6 | 75.1 | 75.5  | 75.1  | 75.9  | 74.7  | 75.4  | 74.0  | 77.4  | 77.4  |    |    |    |    | 116.9 |
| TAF 400             | 400   | 71.6 | 72.1 | 72.1 | 72.2  | 72.7  | 71.7  | 71.4  | 74.5  | 70.7  | 70.7  | 70.7  |    |    |    |    | 110.3 |
| BAF 30.0 HG         | 500   | 71.6 | 71.4 | 72.1 | 72.9  | 71.9  | 75.4  | 77.1  | 77.3  | 70.0  | 70.3  | 70.6  |    |    |    |    | 110.7 |
| (101305. 12/12)     | 600   | 74.6 | 74.9 | 76.1 | 76.4  | 78.2  | 79.7  | 61.6  | 61.4  | 61.0  | 61.5  | 77.1  |    |    |    |    | 113.2 |
| TAF 42. DEG E       | 800   | 75.2 | 76.2 | 77.1 | 77.7  | 77.4  | 77.4  | 81.0  | 82.1  | 82.0  | 81.4  | 77.0  |    |    |    |    | 114.6 |
| (279. DEG N)        | 1000  | 74.4 | 74.7 | 75.1 | 77.2  | 77.5  | 81.2  | 81.1  | 83.9  | 84.5  | 81.5  | 77.4  |    |    |    |    | 113.2 |
| T-ET 37. DEG F      | 1200  | 72.9 | 73.2 | 75.5 | 77.5  | 76.7  | 83.6  | 84.3  | 84.4  | 85.2  | 84.6  | 77.4  |    |    |    |    | 116.3 |
| (276. DEG N)        | 1400  | 77.2 | 78.2 | 81.4 | 84.0  | 87.0  | 87.7  | 84.3  | 86.5  | 83.2  | 84.9  | 70.0  |    |    |    |    | 119.6 |
| MACT 4.34 CM/HR     | 2000  | 68.7 | 70.3 | 71.9 | 73.1  | 74.5  | 75.9  | 76.3  | 77.1  | 75.7  | 77.4  | 72.9  |    |    |    |    | 116.4 |
| (100439 CM/HR)      | 2500  | 68.7 | 70.5 | 71.6 | 73.1  | 75.3  | 75.3  | 77.3  | 77.4  | 80.0  | 77.5  | 72.6  |    |    |    |    | 118.0 |
| NFA 6225. RPM       | 3100  | 63.7 | 69.5 | 71.1 | 72.7  | 75.1  | 76.5  | 80.5  | 81.3  | 82.0  | 81.0  | 77.1  |    |    |    |    | 113.1 |
| (652. RPM/SEC)      | 4000  | 67.5 | 71.0 | 72.6 | 74.4  | 77.0  | 80.2  | 81.5  | 82.3  | 82.0  | 82.4  | 76.0  |    |    |    |    | 113.6 |
| NFA 6330. RPM       | 5000  | 65.6 | 66.9 | 69.0 | 70.9  | 73.0  | 75.4  | 78.2  | 80.0  | 80.0  | 80.1  | 72.2  |    |    |    |    | 116.0 |
| (663. RPM/SEC)      | 6300  | 63.9 | 65.3 | 66.7 | 68.3  | 70.7  | 73.2  | 76.7  | 75.0  | 78.2  | 73.0  | 69.8  |    |    |    |    | 117.0 |
| NFA 6823. RPM       | 8000  | 64.1 | 67.7 | 67.3 | 70.7  | 71.6  | 74.6  | 74.2  | 81.0  | 81.8  | 77.4  | 73.9  |    |    |    |    | 110.9 |
| (924. RPM/SEC)      | 10000 | 63.4 | 67.1 | 68.6 | 72.6  | 73.7  | 77.0  | 81.4  | 82.3  | 83.7  | 80.3  | 75.4  |    |    |    |    | 113.2 |
| NO. OF BLADES 15    | 12500 | 67.7 | 63.3 | 70.2 | 73.7  | 75.6  | 78.4  | 82.0  | 84.1  | 85.4  | 82.7  | 77.3  |    |    |    |    | 115.2 |
| FAN TIP SPEED       | 16000 | 65.5 | 66.3 | 67.3 | 72.4  | 74.1  | 77.4  | 82.5  | 83.5  | 84.7  | 81.5  | 76.2  |    |    |    |    | 116.7 |
| 543. FT/SEC         | 20000 | 66.6 | 66.2 | 69.1 | 75.3  | 75.5  | 79.0  | 84.5  | 86.3  | 87.1  | 82.0  | 77.0  |    |    |    |    | 110.6 |
|                     | 25000 | 66.7 | 67.9 | 69.4 | 76.2  | 76.4  | 79.2  | 83.7  | 84.3  | 85.6  | 82.0  | 77.0  |    |    |    |    | 110.9 |
|                     | 31500 | 67.1 | 69.3 | 70.5 | 76.8  | 78.5  | 81.9  | 85.0  | 86.5  | 87.2  | 84.1  | 76.0  |    |    |    |    | 119.6 |
|                     | 40000 | 65.1 | 66.4 | 68.6 | 73.3  | 75.6  | 79.5  | 82.0  | 83.0  | 84.1  | 82.4  | 72.6  |    |    |    |    | 116.7 |
|                     | 50000 | 67.3 | 65.2 | 67.4 | 67.7  | 70.6  | 74.4  | 78.1  | 78.3  | 79.4  | 77.4  | 67.3  |    |    |    |    | 119.3 |
|                     | 63000 | 68.4 | 64.7 | 64.2 | 65.0  | 67.4  | 69.3  | 72.1  | 71.0  | 72.0  | 70.5  | 62.3  |    |    |    |    | 112.4 |
|                     | 80000 | 70.9 | 68.0 | 69.4 | 68.5  | 66.8  | 67.6  | 68.1  | 68.8  | 68.5  | 65.4  | 65.0  |    |    |    |    | 116.7 |
| OVERALL MEASURED    |       |      |      |      |       |       |       |       |       |       |       |       |    |    |    |    |       |
| OVERALL CALCULATED  |       | 65.2 | 66.5 | 67.4 | 69.4  | 69.8  | 63.9  | 95.4  | 96.2  | 94.4  | 94.5  | 91.1  |    |    |    |    | 120.9 |
| PRF                 |       | 96.1 | 97.2 | 99.1 | 101.1 | 103.4 | 105.2 | 106.0 | 105.7 | 104.4 | 104.5 | 101.5 |    |    |    |    |       |

MODEL SOUND PRESSURE LEVELS (20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80 PERCENT CBL. NUM. TAV)  
 MODEL SOUND PRESSURE LEVELS (20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80 PERCENT CBL. NUM. TAV)  
 MODEL SOUND PRESSURE LEVELS (20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80 PERCENT CBL. NUM. TAV)  
 MODEL SOUND PRESSURE LEVELS (20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80 PERCENT CBL. NUM. TAV)



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|                        | 73    | 74   | 75    | 76    | 77    | 78    | 79    | 80    | 81    | 82    | 83    | 84    | 85    | 86    | 87    | 88    | 89    | 90    | 91    | 92    | 93    | 94    |
|------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| RADIAL 17. FT.         | 50    | 60   | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 160   | 170   | 180   | 190   | 200   | 210   | 220   | 230   | 240   | 250   | 260   |
| VEHICLE                | 100   | 69.5 | 74.4  | 78.5  | 82.7  | 86.1  | 89.2  | 92.4  | 95.6  | 98.9  | 102.1 | 105.4 | 108.7 | 112.0 | 115.3 | 118.6 | 121.9 | 125.2 | 128.5 | 131.8 | 135.1 | 138.4 |
| CONFIG 10R             | 160   | 69.5 | 71.4  | 71.1  | 71.7  | 72.1  | 72.4  | 72.4  | 72.4  | 72.4  | 72.4  | 72.4  | 72.4  | 72.4  | 72.4  | 72.4  | 72.4  | 72.4  | 72.4  | 72.4  | 72.4  | 72.4  |
| LCC SCHEMATIC          | 200   | 69.5 | 72.1  | 75.3  | 78.5  | 81.7  | 84.9  | 88.1  | 91.3  | 94.5  | 97.7  | 100.9 | 104.1 | 107.3 | 110.5 | 113.7 | 116.9 | 120.1 | 123.3 | 126.5 | 129.7 | 132.9 |
| SATE 12/5/74           | 250   | 70.5 | 74.4  | 78.6  | 82.8  | 87.0  | 91.2  | 95.4  | 99.6  | 103.8 | 108.0 | 112.2 | 116.4 | 120.6 | 124.8 | 129.0 | 133.2 | 137.4 | 141.6 | 145.8 | 150.0 | 154.2 |
| PUH 25/23              | 315   | 70.5 | 74.5  | 78.6  | 82.7  | 86.8  | 90.9  | 95.0  | 99.1  | 103.2 | 107.3 | 111.4 | 115.5 | 119.6 | 123.7 | 127.8 | 131.9 | 136.0 | 140.1 | 144.2 | 148.3 | 152.4 |
| YATE                   | 400   | 71.1 | 74.4  | 78.5  | 82.6  | 86.7  | 90.8  | 94.9  | 99.0  | 103.1 | 107.2 | 111.3 | 115.4 | 119.5 | 123.6 | 127.7 | 131.8 | 135.9 | 140.0 | 144.1 | 148.2 | 152.3 |
| BAR 30.0 HG            | 500   | 72.3 | 74.1  | 74.6  | 75.2  | 75.8  | 76.4  | 76.9  | 77.4  | 77.9  | 78.4  | 78.9  | 79.4  | 79.9  | 80.4  | 80.9  | 81.4  | 81.9  | 82.4  | 82.9  | 83.4  | 83.9  |
| (C1305. 1/P2)          | 630   | 72.6 | 76.9  | 78.1  | 78.7  | 79.3  | 79.9  | 80.5  | 81.1  | 81.7  | 82.3  | 82.9  | 83.5  | 84.1  | 84.7  | 85.3  | 85.9  | 86.5  | 87.1  | 87.7  | 88.3  | 88.9  |
| TARE 42. DEG F         | 800   | 73.2 | 73.4  | 73.1  | 73.7  | 74.3  | 74.9  | 75.5  | 76.1  | 76.7  | 77.3  | 77.9  | 78.5  | 79.1  | 79.7  | 80.3  | 80.9  | 81.5  | 82.1  | 82.7  | 83.3  | 83.9  |
| (1274. DEG F)          | 1000  | 75.2 | 77.4  | 77.4  | 78.4  | 79.4  | 80.4  | 81.4  | 82.4  | 83.4  | 84.4  | 85.4  | 86.4  | 87.4  | 88.4  | 89.4  | 90.4  | 91.4  | 92.4  | 93.4  | 94.4  | 95.4  |
| T-CT 37. DEG F         | 1200  | 75.2 | 75.4  | 77.4  | 78.4  | 79.4  | 80.4  | 81.4  | 82.4  | 83.4  | 84.4  | 85.4  | 86.4  | 87.4  | 88.4  | 89.4  | 90.4  | 91.4  | 92.4  | 93.4  | 94.4  | 95.4  |
| (1276. DEG F)          | 1400  | 74.5 | 74.7  | 75.6  | 76.5  | 77.4  | 78.3  | 79.2  | 80.1  | 81.0  | 81.9  | 82.8  | 83.7  | 84.6  | 85.5  | 86.4  | 87.3  | 88.2  | 89.1  | 90.0  | 90.9  | 91.8  |
| MACT 4.00 R/HR         | 2000  | 71.3 | 73.7  | 75.4  | 77.1  | 78.8  | 80.5  | 82.2  | 83.9  | 85.6  | 87.3  | 89.0  | 90.7  | 92.4  | 94.1  | 95.8  | 97.5  | 99.2  | 100.9 | 102.6 | 104.3 | 106.0 |
| (-00436 R/HR)          | 2500  | 71.7 | 73.5  | 74.4  | 76.6  | 78.0  | 79.4  | 80.8  | 82.2  | 83.6  | 85.0  | 86.4  | 87.8  | 89.2  | 90.6  | 92.0  | 93.4  | 94.8  | 96.2  | 97.6  | 99.0  | 100.4 |
| MFA 6000 RPM           | 3100  | 71.7 | 72.2  | 74.4  | 76.4  | 78.4  | 80.4  | 82.4  | 84.4  | 86.4  | 88.4  | 90.4  | 92.4  | 94.4  | 96.4  | 98.4  | 100.4 | 102.4 | 104.4 | 106.4 | 108.4 | 110.4 |
| (733. RAY/SEC)         | 4000  | 72.4 | 75.2  | 76.4  | 78.1  | 79.8  | 81.5  | 83.2  | 84.9  | 86.6  | 88.3  | 90.0  | 91.7  | 93.4  | 95.1  | 96.8  | 98.5  | 100.2 | 101.9 | 103.6 | 105.3 | 107.0 |
| MFK 7114 RPM           | 5000  | 69.1 | 72.3  | 72.8  | 74.6  | 76.4  | 78.2  | 80.0  | 81.8  | 83.6  | 85.4  | 87.2  | 89.0  | 90.8  | 92.6  | 94.4  | 96.2  | 98.0  | 99.8  | 101.6 | 103.4 | 105.2 |
| (745. RAY/SEC)         | 6300  | 67.2 | 68.5  | 70.5  | 72.1  | 73.7  | 75.3  | 76.9  | 78.5  | 80.1  | 81.7  | 83.3  | 84.9  | 86.5  | 88.1  | 89.7  | 91.3  | 92.9  | 94.5  | 96.1  | 97.7  | 99.3  |
| MFE 8823 RPM           | 8000  | 67.1 | 68.3  | 70.3  | 72.5  | 74.5  | 76.5  | 78.5  | 80.5  | 82.5  | 84.5  | 86.5  | 88.5  | 90.5  | 92.5  | 94.5  | 96.5  | 98.5  | 100.5 | 102.5 | 104.5 | 106.5 |
| (924. RAY/SEC)         | 10000 | 69.2 | 69.6  | 72.1  | 74.4  | 76.7  | 79.0  | 81.3  | 83.6  | 85.9  | 88.2  | 90.5  | 92.8  | 95.1  | 97.4  | 99.7  | 102.0 | 104.3 | 106.6 | 108.9 | 111.2 | 113.5 |
| NJ. OF GLAZES 15 12500 | 72.2  | 71.3 | 73.5  | 76.7  | 79.1  | 81.7  | 84.4  | 87.1  | 89.8  | 92.5  | 95.2  | 97.9  | 100.6 | 103.3 | 106.0 | 108.7 | 111.4 | 114.1 | 116.8 | 119.5 | 122.2 | 124.9 |
| FAK TIP SPEED 16000    | 68.5  | 69.3 | 71.7  | 74.1  | 76.6  | 79.0  | 81.4  | 83.8  | 86.2  | 88.6  | 91.0  | 93.4  | 95.8  | 98.2  | 100.6 | 103.0 | 105.4 | 107.8 | 110.2 | 112.6 | 115.0 | 117.4 |
| 611. FT/SEC 20000      | 69.1  | 70.4 | 72.9  | 75.4  | 77.9  | 80.4  | 82.9  | 85.4  | 87.9  | 90.4  | 92.9  | 95.4  | 97.9  | 100.4 | 102.9 | 105.4 | 107.9 | 110.4 | 112.9 | 115.4 | 117.9 | 120.4 |
| 25000                  | 67.2  | 70.2 | 72.7  | 75.2  | 77.7  | 80.2  | 82.7  | 85.2  | 87.7  | 90.2  | 92.7  | 95.2  | 97.7  | 100.2 | 102.7 | 105.2 | 107.7 | 110.2 | 112.7 | 115.2 | 117.7 | 120.2 |
| 31500                  | 69.6  | 71.5 | 74.5  | 77.5  | 80.5  | 83.5  | 86.5  | 89.5  | 92.5  | 95.5  | 98.5  | 101.5 | 104.5 | 107.5 | 110.5 | 113.5 | 116.5 | 119.5 | 122.5 | 125.5 | 128.5 | 131.5 |
| 40000                  | 68.3  | 68.8 | 71.6  | 74.3  | 77.0  | 79.7  | 82.4  | 85.1  | 87.8  | 90.5  | 93.2  | 95.9  | 98.6  | 101.3 | 104.0 | 106.7 | 109.4 | 112.1 | 114.8 | 117.5 | 120.2 | 122.9 |
| 50000                  | 68.1  | 65.9 | 69.2  | 72.5  | 75.8  | 79.1  | 82.4  | 85.7  | 89.0  | 92.3  | 95.6  | 98.9  | 102.2 | 105.5 | 108.8 | 112.1 | 115.4 | 118.7 | 122.0 | 125.3 | 128.6 | 131.9 |
| 63000                  | 69.3  | 64.7 | 68.2  | 71.4  | 74.6  | 77.8  | 81.0  | 84.2  | 87.4  | 90.6  | 93.8  | 97.0  | 100.2 | 103.4 | 106.6 | 109.8 | 113.0 | 116.2 | 119.4 | 122.6 | 125.8 | 129.0 |
| 80000                  | 77.9  | 68.2 | 69.8  | 66.7  | 67.3  | 67.6  | 67.6  | 67.6  | 67.6  | 67.6  | 67.6  | 67.6  | 67.6  | 67.6  | 67.6  | 67.6  | 67.6  | 67.6  | 67.6  | 67.6  | 67.6  | 67.6  |
| OVERALL MEASURED       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| OVERALL CALCULATED     | 67.5  | 65.2 | 69.4  | 91.7  | 83.4  | 84.3  | 84.5  | 84.4  | 84.2  | 84.0  | 83.8  | 83.6  | 83.4  | 83.2  | 83.0  | 82.8  | 82.6  | 82.4  | 82.2  | 82.0  | 81.8  | 81.6  |
| PMK                    | 68.5  | 69.5 | 100.4 | 102.7 | 104.4 | 106.7 | 108.5 | 110.3 | 112.1 | 113.9 | 115.7 | 117.5 | 119.3 | 121.1 | 122.9 | 124.7 | 126.5 | 128.3 | 130.1 | 131.9 | 133.7 | 135.5 |

NOISE SOURCE (FREQ. IN Hz) (TOTAL SPL) (DURATION IN U.S.A. 20)

ORIGINAL PAGE IS OF POOR QUALITY

| PARAMETER          | 100  | 105  | 110  | 115  | 120  | 125  | 130  | 135  | 140  | 145  | 150  | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SIDELINE 200 FT    | 63   |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |
| VEHICLE ROPS       | 47.4 | 51.7 | 51.6 | 48.3 | 45.5 | 47.4 | 48.2 | 47.1 | 49.9 | 51.5 | 51.9 |     |     |     |     |     |     |     |     |     |     |
| CONFIG 100         | 47.4 | 49.5 | 48.9 | 48.3 | 50.4 | 47.4 | 47.4 | 52.2 | 52.4 | 52.9 | 52.9 |     |     |     |     |     |     |     |     |     |     |
| LCC SCHE-ECTAT     | 47.4 | 47.1 | 47.6 | 47.7 | 51.1 | 48.2 | 47.4 | 53.8 | 54.8 | 54.3 | 54.3 |     |     |     |     |     |     |     |     |     |     |
| DATE 12/5/74       | 47.4 | 51.3 | 51.2 | 53.4 | 54.7 | 54.1 | 53.8 | 54.8 | 54.8 | 54.3 | 54.3 |     |     |     |     |     |     |     |     |     |     |
| RUN 29/23          | 50.7 | 53.5 | 54.1 | 54.7 | 55.4 | 55.0 | 55.7 | 54.6 | 54.0 | 53.0 | 53.0 |     |     |     |     |     |     |     |     |     |     |
| WAVE               | 47.0 | 47.8 | 51.1 | 51.3 | 52.7 | 53.1 | 52.8 | 52.4 | 53.5 | 52.9 | 52.7 |     |     |     |     |     |     |     |     |     |     |
| BAR 30.0 AS        | 52.0 | 50.9 | 50.3 | 52.0 | 52.7 | 52.2 | 52.1 | 52.4 | 52.4 | 52.2 | 52.2 |     |     |     |     |     |     |     |     |     |     |
| (G1305) W/P21      | 53.0 | 53.4 | 53.4 | 53.8 | 58.2 | 58.0 | 58.8 | 58.3 | 57.4 | 57.8 | 57.8 |     |     |     |     |     |     |     |     |     |     |
| TAPB 42 SEC F      | 54.2 | 54.4 | 56.2 | 57.7 | 58.7 | 61.9 | 61.3 | 61.2 | 61.2 | 59.2 | 59.1 |     |     |     |     |     |     |     |     |     |     |
| (270) SEC F1       | 51.1 | 53.5 | 54.3 | 55.5 | 57.2 | 61.1 | 62.2 | 61.3 | 60.7 | 59.8 | 59.8 |     |     |     |     |     |     |     |     |     |     |
| (37) SEC F         | 52.2 | 54.5 | 54.2 | 57.5 | 59.3 | 60.7 | 61.8 | 60.6 | 59.8 | 59.9 | 59.9 |     |     |     |     |     |     |     |     |     |     |
| (270) SEC F1       | 52.3 | 56.7 | 56.6 | 58.3 | 59.1 | 60.7 | 61.0 | 60.4 | 59.8 | 59.8 | 59.8 |     |     |     |     |     |     |     |     |     |     |
| MACT 4.36 W/P21    | 46.5 | 49.4 | 52.3 | 52.7 | 57.3 | 57.9 | 57.4 | 57.2 | 56.1 | 51.1 | 51.1 |     |     |     |     |     |     |     |     |     |     |
| (1-00430) W/P21    | 47.0 | 49.3 | 50.7 | 53.4 | 54.0 | 56.2 | 56.2 | 55.8 | 55.6 | 55.3 | 55.3 |     |     |     |     |     |     |     |     |     |     |
| WFA 600.0 RPM      | 47.4 | 47.4 | 50.4 | 50.9 | 53.4 | 57.7 | 56.5 | 56.3 | 57.5 | 57.1 | 47.7 |     |     |     |     |     |     |     |     |     |     |
| (733) W/P21        | 46.3 | 48.3 | 51.3 | 52.2 | 55.7 | 60.0 | 61.8 | 58.6 | 58.1 | 58.3 | 43.0 |     |     |     |     |     |     |     |     |     |     |
| WFK 710.0 RPM      | 42.2 | 45.4 | 48.1 | 50.4 | 53.4 | 54.4 | 57.0 | 54.4 | 54.1 | 47.3 | 57.9 |     |     |     |     |     |     |     |     |     |     |
| (745) W/P21        | 37.4 | 42.1 | 45.3 | 47.4 | 47.7 | 52.2 | 53.3 | 51.7 | 51.0 | 43.5 | 37.4 |     |     |     |     |     |     |     |     |     |     |
| WFS 8023.0 RPM     | 37.4 | 41.4 | 44.2 | 47.5 | 47.5 | 52.0 | 54.7 | 54.1 | 52.8 | 45.1 | 24.1 |     |     |     |     |     |     |     |     |     |     |
| (924) W/P21        | 37.1 | 40.2 | 43.9 | 47.4 | 45.8 | 52.0 | 56.1 | 54.6 | 53.6 | 45.1 | 33.2 |     |     |     |     |     |     |     |     |     |     |
| NO. OF BLADES 15   | 36.3 | 39.4 | 43.0 | 46.8 | 49.5 | 51.8 | 55.4 | 54.1 | 53.7 | 43.5 | 28.0 |     |     |     |     |     |     |     |     |     |     |
| TIP SPEED 16030    | 23.7 | 33.3 | 37.3 | 42.7 | 44.4 | 47.0 | 51.7 | 49.3 | 46.7 | 35.7 | 18.7 |     |     |     |     |     |     |     |     |     |     |
| 611 FT/SEC         | 24.4 | 29.2 | 33.5 | 38.6 | 41.1 | 44.2 | 48.8 | 46.6 | 42.1 | 29.9 | 7.8  |     |     |     |     |     |     |     |     |     |     |
| 25030              | 15.7 | 21.2 | 26.1 | 31.9 | 34.3 | 37.0 | 41.4 | 37.1 | 32.7 | 16.9 |      |     |     |     |     |     |     |     |     |     |     |
| 3150               | 3.5  | 10.9 | 17.3 | 25.5 | 27.4 | 29.5 | 31.1 | 28.2 | 18.4 |      |      |     |     |     |     |     |     |     |     |     |     |
| 40730              |      |      |      | 7.7  | 13.3 | 12.4 | 13.1 | 7.0  |      |      |      |     |     |     |     |     |     |     |     |     |     |
| 50330              |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |
| 63030              |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |
| 80030              |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |
| OVERALL CALCULATED | 62.1 | 64.6 | 66.1 | 67.4 | 69.3 | 70.6 | 71.5 | 70.8 | 69.5 | 65.8 | 61.3 |     |     |     |     |     |     |     |     |     |     |
| PA23               | 71.3 | 74.5 | 76.6 | 79.0 | 81.3 | 83.0 | 84.1 | 82.9 | 81.7 | 77.4 | 69.1 |     |     |     |     |     |     |     |     |     |     |

MODEL SOUND PREDICTION LEVELS (dB) 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200  
 MODEL SOUND PREDICTION LEVELS (dB) 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200  
 MODEL SOUND PREDICTION LEVELS (dB) 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200

80

|  |  |  |  |  |  |  |  |  |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|--|--|--|--|--|--|--|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|  |  |  |  |  |  |  |  |  |  | 82   | 83   | 84   | 85   | 86   | 87   | 88   | 89   | 90   | 91   | 92   | 93   | 94   | 95   | 96   | 97   | 98   | 99   | 100  |      |      |      |      |
|  |  |  |  |  |  |  |  |  |  | 77.5 | 78.5 | 79.5 | 80.5 | 81.5 | 82.5 | 83.5 | 84.5 | 85.5 | 86.5 | 87.5 | 88.5 | 89.5 | 90.5 | 91.5 | 92.5 | 93.5 | 94.5 | 95.5 | 96.5 | 97.5 | 98.5 | 99.5 |

| PARAMETER          | UNIT          | 82    | 83    | 84    | 85    | 86    | 87    | 88    | 89    | 90    | 91    | 92    | 93    | 94 | 95 | 96 | 97 | 98 | 99 | 100   |
|--------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|-------|
| RADIAL             | 17. FT.       | 100   | 72.5  | 74.1  | 73.4  | 72.4  | 73.1  | 73.0  | 73.0  | 73.4  | 77.0  | 81.2  | 85.3  |    |    |    |    |    |    | 111.4 |
| VEHICLE            | 4025          | 128   | 74.2  | 82.3  | 75.4  | 75.1  | 74.6  | 74.1  | 74.2  | 74.1  | 74.2  | 74.2  | 74.2  |    |    |    |    |    |    | 114.6 |
| CONFIG             | 100           | 73.7  | 81.5  | 75.1  | 74.1  | 74.1  | 74.2  | 74.2  | 74.2  | 74.2  | 74.2  | 74.2  | 74.2  |    |    |    |    |    |    | 113.0 |
| LOC                | SCHE. RECTANG | 250   | 73.2  | 82.5  | 74.3  | 74.4  | 74.1  | 74.0  | 74.0  | 74.0  | 74.0  | 74.0  | 74.0  |    |    |    |    |    |    | 114.4 |
| DATE               | 12/4/74       | 250   | 75.5  | 85.3  | 74.4  | 74.3  | 74.0  | 74.0  | 74.0  | 74.0  | 74.0  | 74.0  | 74.0  |    |    |    |    |    |    | 116.1 |
| RUN                | 2720          | 315   | 77.5  | 73.7  | 75.3  | 74.1  | 74.0  | 74.0  | 74.0  | 74.0  | 74.0  | 74.0  | 74.0  |    |    |    |    |    |    | 114.9 |
| TYPE               | 4025          | 4025  | 74.1  | 74.1  | 74.1  | 74.1  | 74.1  | 74.1  | 74.1  | 74.1  | 74.1  | 74.1  | 74.1  |    |    |    |    |    |    | 113.5 |
| BAR                | 30.00 MG      | 520   | 74.3  | 79.8  | 77.3  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  |    |    |    |    |    |    | 119.2 |
| CONTRAST           | 10135.50      | 824   | 74.1  | 78.1  | 83.3  | 82.6  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  |    |    |    |    |    |    | 117.4 |
| TANG               | 41. DEG F     | 400   | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  |    |    |    |    |    |    | 117.0 |
| TEST               | 1270. DEG F   | 1000  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  |    |    |    |    |    |    | 117.1 |
| TEST               | 37. DEG F     | 1250  | 74.1  | 77.3  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  |    |    |    |    |    |    | 110.1 |
| TEST               | 1270. DEG F   | 1000  | 74.6  | 77.1  | 79.3  | 79.3  | 79.3  | 79.3  | 79.3  | 79.3  | 79.3  | 79.3  | 79.3  |    |    |    |    |    |    | 110.9 |
| MACT               | 4.000 GR/IN   | 2000  | 74.9  | 77.4  | 78.6  | 78.6  | 78.6  | 78.6  | 78.6  | 78.6  | 78.6  | 78.6  | 78.6  |    |    |    |    |    |    | 117.4 |
| MACT               | 1000000 GR/IN | 2500  | 74.9  | 78.4  | 77.0  | 76.8  | 76.8  | 76.8  | 76.8  | 76.8  | 76.8  | 76.8  | 76.8  |    |    |    |    |    |    | 110.0 |
| NFA                | 777.0 RPM     | 3150  | 74.1  | 75.7  | 75.4  | 78.4  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  |    |    |    |    |    |    | 110.5 |
| NFA                | 1014.0 RPM    | 4000  | 77.1  | 73.1  | 75.3  | 75.4  | 75.4  | 75.4  | 75.4  | 75.4  | 75.4  | 75.4  | 75.4  |    |    |    |    |    |    | 120.5 |
| NFA                | 9017.0 RPM    | 5000  | 73.1  | 74.1  | 76.2  | 78.4  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  |    |    |    |    |    |    | 110.0 |
| NFA                | 1000.0 RPM    | 8500  | 71.1  | 73.2  | 74.2  | 74.7  | 74.7  | 74.7  | 74.7  | 74.7  | 74.7  | 74.7  | 74.7  |    |    |    |    |    |    | 114.7 |
| NFA                | 8023.0 RPM    | 6000  | 74.0  | 72.0  | 74.5  | 77.2  | 78.3  | 78.3  | 78.3  | 78.3  | 78.3  | 78.3  | 78.3  |    |    |    |    |    |    | 110.0 |
| NFA                | 1074.0 RPM    | 10000 | 72.0  | 73.7  | 75.0  | 78.0  | 78.6  | 78.6  | 78.6  | 78.6  | 78.6  | 78.6  | 78.6  |    |    |    |    |    |    | 110.0 |
| NO. OF BLADES      | 15            | 10000 | 74.6  | 78.2  | 77.3  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  |    |    |    |    |    |    | 121.1 |
| VEH. TIP SPEED     | 10000         | 10000 | 74.4  | 73.7  | 74.3  | 78.7  | 78.7  | 78.7  | 78.7  | 78.7  | 78.7  | 78.7  | 78.7  |    |    |    |    |    |    | 120.4 |
| VEH. TIP SPEED     | 23000         | 23000 | 73.7  | 74.5  | 77.3  | 74.7  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  |    |    |    |    |    |    | 122.0 |
| VEH. TIP SPEED     | 25000         | 25000 | 73.2  | 76.1  | 73.4  | 82.7  | 82.7  | 82.7  | 82.7  | 82.7  | 82.7  | 82.7  | 82.7  |    |    |    |    |    |    | 123.5 |
| VEH. TIP SPEED     | 71500         | 71500 | 74.3  | 74.5  | 74.7  | 75.0  | 74.7  | 74.7  | 74.7  | 74.7  | 74.7  | 74.7  | 74.7  |    |    |    |    |    |    | 124.4 |
| VEH. TIP SPEED     | 40000         | 40000 | 74.3  | 74.4  | 77.4  | 82.3  | 83.1  | 83.1  | 83.1  | 83.1  | 83.1  | 83.1  | 83.1  |    |    |    |    |    |    | 124.0 |
| VEH. TIP SPEED     | 50000         | 50000 | 75.2  | 74.3  | 77.0  | 77.6  | 74.7  | 77.3  | 77.3  | 77.3  | 77.3  | 77.3  | 77.3  |    |    |    |    |    |    | 122.3 |
| VEH. TIP SPEED     | 43000         | 43000 | 79.5  | 74.1  | 77.7  | 74.5  | 74.9  | 77.0  | 77.0  | 77.0  | 77.0  | 77.0  | 77.0  |    |    |    |    |    |    | 120.5 |
| VEH. TIP SPEED     | 40000         | 40000 | 81.2  | 76.7  | 80.0  | 76.7  | 77.6  | 77.0  | 77.0  | 77.0  | 77.0  | 77.0  | 77.0  |    |    |    |    |    |    | 124.7 |
| OVERALL PASSLET    |               |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |       |
| OVERALL CALCULATOR |               |       | 91.6  | 93.4  | 93.2  | 94.3  | 90.1  | 92.1  | 101.3 | 111.4 | 111.0 | 99.2  | 97.1  |    |    |    |    |    |    | 124.0 |
| PASS               |               |       | 101.4 | 103.4 | 104.0 | 107.0 | 107.6 | 107.5 | 111.0 | 111.4 | 111.0 | 107.0 | 107.1 |    |    |    |    |    |    |       |

MICROFILMED FROM THE ORIGINAL DOCUMENT BY THE NATIONAL ARCHIVES

| PARAMETER                  | 73   | 74   | 75   | 76   | 77   | 78   | 79   | 80   | 81   | 82   | 83   | 84  | 85  | 86  | 87  | 88  | 89  | 90  |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| SIDE LINE 200 FT           | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| VEHICLE                    | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| COND 16                    | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| LOG SCALE FACTOR           | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| DATE 12/5/54               | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| TIME 2/24                  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| BAR 30.3 MG                | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| FACT 1270 DEG F            | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| FACT 370 DEG F             | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| MACT 4.25 G/M <sup>2</sup> | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| MFA 7778 RPM               | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| MFC 8230 RPM               | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| NO. OF PLACES IN 1253F     | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| FA: TIP SPEED 16000 FT/SEC | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| FA: TIP SPEED 22000 FT/SEC | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| FA: TIP SPEED 25000 FT/SEC | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| FA: TIP SPEED 31500 FT/SEC | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| FA: TIP SPEED 40000 FT/SEC | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| FA: TIP SPEED 50000 FT/SEC | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| OVERALL CALL LAYO          | 65.2 | 68.4 | 64.8 | 67.9 | 71.4 | 72.9 | 74.5 | 73.2 | 72.1 | 64.5 | 68.9 |     |     |     |     |     |     |     |
| FA: TIP SPEED              | 74.3 | 78.5 | 79.9 | 82.1 | 83.9 | 85.7 | 87.6 | 85.9 | 84.6 | 79.7 | 72.3 |     |     |     |     |     |     |     |

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PAGE 1 FULL SCALE DATA ... MODEL ...

Table with columns for parameters like RADIUS, VEHICLE, CONF, etc., and multiple columns of numerical data values.







PRES. (10.85, 11.00, 11.25, 11.50, 11.75, 12.00, 12.25, 12.50, 12.75, 13.00, 13.25, 13.50, 13.75, 14.00, 14.25, 14.50, 14.75, 15.00, 15.25, 15.50, 15.75, 16.00, 16.25, 16.50, 16.75, 17.00)

| 63                  | 70    | 75   | 80   | 85   | 90   | 95   | 100  | 105  | 110  | 115  | 120  | 125  | 130  | 135  | 140  | 145  | 150  | 155  | 160  | 165  | 170  | 175  |      |
|---------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| SIDELINE 200 FT.    | 63    | 70   | 75   | 80   | 85   | 90   | 95   | 100  | 105  | 110  | 115  | 120  | 125  | 130  | 135  | 140  | 145  | 150  | 155  | 160  | 165  | 170  |      |
| VEHICLE 100-96 M    | 100   | 41.7 | 44.2 | 50.0 | 57.7 | 53.0 | 51.7 | 47.2 | 41.6 | 44.7 | 44.5 | 41.5 | 40.5 | 40.5 | 40.7 | 40.4 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 |
| VEHICLE 100-95      | 100   | 42.0 | 44.7 | 47.5 | 49.1 | 50.0 | 49.0 | 45.3 | 40.4 | 44.7 | 44.4 | 41.5 | 40.5 | 40.5 | 40.7 | 40.4 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 |
| CCT. FIG. 1GR       | 100   | 43.4 | 42.5 | 43.7 | 43.5 | 43.7 | 43.7 | 43.5 | 43.7 | 43.5 | 43.7 | 43.5 | 43.7 | 43.5 | 43.7 | 43.5 | 43.7 | 43.5 | 43.7 | 43.5 | 43.7 | 43.5 | 43.7 |
| LCC SCHEMECTARY     | 200   | 42.3 | 41.3 | 43.2 | 43.5 | 45.1 | 46.7 | 47.9 | 47.6 | 46.7 | 47.5 | 47.2 | 47.1 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 |
| HATE 12/5/74        | 250   | 44.5 | 43.5 | 45.2 | 46.1 | 47.0 | 47.0 | 47.6 | 46.4 | 47.2 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 |
| RJH 2/2/76          | 315   | 44.5 | 42.7 | 46.1 | 46.7 | 47.0 | 47.0 | 47.6 | 46.4 | 47.2 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 |
| TAFB                | 400   | 44.0 | 46.4 | 47.5 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 |
| BAR 30-8 HG         | 500   | 44.0 | 46.4 | 47.5 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 |
| (01305 J/M2)        | 630   | 47.3 | 43.9 | 41.1 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 |
| TAFB 42 TEC F       | 800   | 47.9 | 41.8 | 43.7 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 |
| 1279 TEC K1         | 1000  | 45.8 | 48.9 | 47.8 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 |
| T-ET 37 TEC F       | 1250  | 50.7 | 52.3 | 55.7 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 |
| 1276 TEC K1         | 1600  | 45.8 | 46.7 | 46.4 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 |
| NAC 4-36 G/M3       | 2000  | 30.2 | 42.1 | 44.3 | 45.7 | 47.3 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 |
| 100436 R/M3         | 2500  | 40.0 | 43.5 | 45.4 | 47.4 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 |
| MFA 5440 RPM        | 3100  | 38.7 | 41.2 | 43.4 | 45.4 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 |
| (570 RPS/SEC)       | 4000  | 39.1 | 41.7 | 43.6 | 45.4 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 |
| MFA 5531 RPM        | 5000  | 35.8 | 37.2 | 40.3 | 42.4 | 45.2 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 |
| (570 RPS/SEC)       | 6000  | 35.4 | 35.6 | 36.0 | 36.6 | 41.5 | 42.2 | 43.0 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| MFA 8023 RPM        | 8000  | 32.5 | 33.6 | 36.3 | 38.3 | 42.2 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| (924 RPS/SEC)       | 10000 | 32.3 | 34.7 | 37.4 | 39.3 | 42.2 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| NO. OF BLADES 15    | 12500 | 31.8 | 34.2 | 36.2 | 38.4 | 42.3 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 |
| FAN TIP SPEED 16000 | 20000 | 24.7 | 28.1 | 30.8 | 33.4 | 36.9 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 |
| 475 FT/SEC          | 25000 | 19.7 | 23.5 | 26.8 | 31.4 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 |
| 25000               | 31500 | 12.2 | 16.7 | 20.4 | 24.4 | 28.5 | 30.7 | 33.4 | 36.1 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| 40000               | 50000 | 4.7  | 9.6  | 15.4 | 20.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 |
| 63000               | 80000 |      |      |      | 2.5  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  |
| OVERALL CALCULATED  | 57.9  | 59.3 | 61.9 | 64.2 | 67.1 | 69.1 | 67.8 | 66.6 | 65.0 | 63.4 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 |
| RMSR                | 66.4  | 68.3 | 71.2 | 74.1 | 77.0 | 79.1 | 79.2 | 77.0 | 75.0 | 73.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 |

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PAGE 1 FULL SCALE DATA RESOLUTION PROGRAM

MODEL SOUND PRESSURE LEVELS 159. DFG, F. 70 PERCENT REL. NUM. EAY

PNOC, DATE - NOV 11 12 DAY 17 Mo. 10.3

ANGLES FROM TALLEY IN DEGREES (AND RADIANS)

|                    |         | 53     | 64     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 159    | 0 | 0 | 0 | 0 | 0 | 0 | 0 |       |
|--------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---|---|---|---|---|---|-------|
|                    |         | (2.92) | (1.00) | (1.24) | (1.41) | (1.59) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |       |
|                    |         | 50     | 63     | 80     |        |        |        |        |        |        |        |        |   |   |   |   |   |   |   |       |
| RADIA              | 17. FT. |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |   |       |
| VEHICLE            | 100     | 74.5   | 75.9   | 80.1   | 82.4   | 82.4   | 81.7   | 78.9   | 72.9   | 70.7   | 75.6   | 77.1   |   |   |   |   |   |   |   | 113.4 |
| CONFIC             | 125     | 69.3   | 68.4   | 70.6   | 67.9   | 71.4   | 68.7   | 70.9   | 70.9   | 72.2   | 73.1   | 75.1   |   |   |   |   |   |   |   | 105.1 |
| LCC SCHEMECTARY    | 160     | 68.5   | 66.4   | 66.6   | 64.9   | 67.6   | 67.7   | 70.4   | 69.9   | 72.0   | 74.1   | 75.4   |   |   |   |   |   |   |   | 164.2 |
| DATE               | 200     | 67.8   | 67.1   | 66.9   | 66.9   | 69.1   | 70.1   | 71.9   | 72.1   | 73.7   | 75.8   | 77.3   |   |   |   |   |   |   |   | 169.8 |
| RUN                | 250     | 69.5   | 69.1   | 70.1   | 70.6   | 71.1   | 71.9   | 73.1   | 72.6   | 73.7   | 75.1   | 75.6   |   |   |   |   |   |   |   | 166.4 |
| TYPE               | 315     | 74.3   | 70.4   | 70.6   | 71.2   | 71.1   | 71.9   | 73.8   | 72.1   | 72.7   | 74.0   | 75.1   |   |   |   |   |   |   |   | 100.5 |
| BAR                | 400     | 68.6   | 69.4   | 69.1   | 69.7   | 69.6   | 70.7   | 71.1   | 71.1   | 72.7   | 74.3   | 74.3   |   |   |   |   |   |   |   | 105.3 |
| YANG               | 500     | 66.0   | 67.1   | 67.1   | 68.2   | 69.4   | 70.7   | 72.1   | 73.2   | 74.0   | 74.8   | 73.9   |   |   |   |   |   |   |   | 105.5 |
| TACT               | 600     | 69.1   | 68.6   | 69.6   | 70.7   | 71.9   | 74.2   | 77.6   | 76.2   | 76.5   | 77.6   | 74.9   |   |   |   |   |   |   |   | 168.6 |
| MACT               | 800     | 74.1   | 71.6   | 73.4   | 71.2   | 74.4   | 75.7   | 83.1   | 77.1   | 79.0   | 78.6   | 75.9   |   |   |   |   |   |   |   | 111.6 |
| NFA                | 1000    | 68.9   | 68.6   | 69.4   | 70.9   | 73.1   | 75.2   | 82.1   | 77.9   | 79.7   | 79.4   | 73.9   |   |   |   |   |   |   |   | 111.1 |
| MFK                | 1200    | 72.4   | 71.4   | 75.6   | 70.2   | 79.2   | 81.7   | 84.3   | 85.0   | 86.5   | 86.4   | 79.1   |   |   |   |   |   |   |   | 116.8 |
| MFD                | 1600    | 73.2   | 69.7   | 72.9   | 75.0   | 76.0   | 78.7   | 80.3   | 81.1   | 81.7   | 81.9   | 75.9   |   |   |   |   |   |   |   | 112.7 |
| MFA                | 2000    | 65.4   | 65.7   | 66.9   | 68.6   | 70.7   | 72.3   | 73.1   | 72.9   | 74.0   | 74.0   | 70.4   |   |   |   |   |   |   |   | 105.6 |
| MFB                | 2500    | 63.9   | 64.7   | 65.4   | 67.6   | 69.8   | 71.5   | 71.8   | 72.4   | 75.7   | 73.4   | 68.6   |   |   |   |   |   |   |   | 105.2 |
| MFC                | 3150    | 63.9   | 63.7   | 64.6   | 68.6   | 69.5   | 72.3   | 73.3   | 74.1   | 77.2   | 76.2   | 69.8   |   |   |   |   |   |   |   | 166.5 |
| MFD                | 4000    | 65.4   | 67.0   | 67.8   | 69.4   | 72.5   | 76.0   | 76.7   | 78.5   | 81.2   | 81.9   | 73.8   |   |   |   |   |   |   |   | 110.6 |
| MFE                | 5000    | 64.6   | 65.4   | 66.8   | 68.6   | 72.2   | 75.9   | 78.2   | 79.2   | 82.6   | 81.6   | 74.0   |   |   |   |   |   |   |   | 111.6 |
| MFF                | 6300    | 64.9   | 65.5   | 67.0   | 68.5   | 71.6   | 75.9   | 78.2   | 80.3   | 82.6   | 81.9   | 74.3   |   |   |   |   |   |   |   | 111.7 |
| MFG                | 8000    | 63.1   | 63.7   | 65.5   | 67.5   | 70.8   | 74.9   | 77.5   | 79.0   | 81.0   | 80.2   | 71.4   |   |   |   |   |   |   |   | 110.1 |
| MFH                | 10000   | 64.4   | 64.5   | 66.8   | 68.6   | 72.1   | 75.7   | 78.3   | 80.3   | 82.4   | 80.0   | 73.3   |   |   |   |   |   |   |   | 111.5 |
| MFI                | 12500   | 65.2   | 64.3   | 66.7   | 69.2   | 73.1   | 76.6   | 79.1   | 80.6   | 83.4   | 79.2   | 73.1   |   |   |   |   |   |   |   | 112.3 |
| MFL                | 16000   | 63.7   | 64.3   | 65.4   | 67.1   | 71.1   | 75.3   | 77.5   | 80.2   | 81.4   | 77.7   | 71.6   |   |   |   |   |   |   |   | 111.2 |
| MFM                | 20000   | 64.3   | 64.2   | 69.1   | 68.1   | 72.7   | 76.5   | 78.4   | 80.5   | 83.6   | 78.8   | 72.0   |   |   |   |   |   |   |   | 112.9 |
| MFN                | 25000   | 65.3   | 64.9   | 66.5   | 68.3   | 72.4   | 75.8   | 77.2   | 79.3   | 80.4   | 77.5   | 70.7   |   |   |   |   |   |   |   | 111.8 |
| MFO                | 31500   | 64.9   | 64.6   | 66.3   | 69.1   | 73.5   | 76.5   | 77.8   | 79.1   | 80.2   | 76.6   | 68.9   |   |   |   |   |   |   |   | 112.8 |
| MFP                | 40000   | 64.9   | 63.8   | 67.0   | 66.2   | 70.7   | 73.1   | 74.5   | 75.6   | 77.3   | 73.7   | 65.4   |   |   |   |   |   |   |   | 111.1 |
| MFP                | 50000   | 67.5   | 64.6   | 69.6   | 65.2   | 69.3   | 69.4   | 70.6   | 70.7   | 71.8   | 70.1   | 64.0   |   |   |   |   |   |   |   | 109.5 |
| MFP                | 63000   | 69.1   | 65.0   | 70.8   | 65.5   | 68.9   | 67.0   | 67.3   | 66.6   | 67.3   | 66.0   | 64.3   |   |   |   |   |   |   |   | 110.7 |
| MFP                | 80000   | 72.3   | 67.3   | 70.4   | 67.1   | 68.6   | 68.7   | 68.2   | 67.3   | 66.5   | 67.0   | 65.5   |   |   |   |   |   |   |   | 115.5 |
| OVERALL REQUESTED  |         |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |   |       |
| OVERALL CALCULATED |         | 83.4   | 82.9   | 85.4   | 86.8   | 88.2   | 90.1   | 92.4   | 92.7   | 94.4   | 93.3   | 88.0   |   |   |   |   |   |   |   | 125.8 |
| PNOC               |         | 92.0   | 92.5   | 93.9   | 95.6   | 97.7   | 100.3  | 102.1  | 102.7  | 105.0  | 104.9  | 99.2   |   |   |   |   |   |   |   |       |

344  
 NOV 11 12 DAY 17 Mo. 10.3  
 MODEL SOUND PRESSURE LEVELS 159. DFG, F. 70 PERCENT REL. NUM. EAY  
 ANGLES FROM TALLEY IN DEGREES (AND RADIANS)  
 53 64 71 81 91 101 111 122 133 145 159 0 0 0 0 0 0 0 0  
 (2.92) (1.00) (1.24) (1.41) (1.59) (1.76) (1.94) (2.13) (2.32) (2.52) (2.73) 0 0 0 0 0 0 0 0  
 50 63 80  
 RADIA 17. FT.  
 (5. M)  
 R-55  
 IC  
 SCHEMECTARY  
 12/10/74  
 34/1  
 29.6 HG  
 43. DEG F  
 30. DEG F  
 276. DEG F  
 4.60 GM/MS  
 5470. RPM  
 573. RPM/SEC  
 5556. RPM  
 582. RPM/SEC  
 823. RPM  
 924. RPM/SEC  
 15 12500  
 470. FT/SEC  
 25000  
 31500  
 40000  
 50000  
 63000  
 80000  
 OVERALL REQUESTED  
 OVERALL CALCULATED  
 PNOC

|                    | 53     | 64     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 159    | 0.   | 0. | 0. | 0. | 0. | 0. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.   | 0. | 0. | 0. | 0. | 0. |
| SIDE LINE 200. FT. | 50     | 63     | 60     |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
| ( 66.36 M )        | 100    | 50.9   | 53.2   | 58.1   | 60.7   | 65.5   | 59.9   | 56.7   | 46.8   | 46.3   | 49.0   | 47.0 |    |    |    |    |    |
| VEHICLE P-59       | 125    | 45.5   | 45.6   | 48.5   | 46.1   | 49.7   | 46.0   | 48.6   | 47.0   | 47.7   | 46.4   | 44.9 |    |    |    |    |    |
| CONFIG 18          | 150    | 42.7   | 43.5   | 44.4   | 45.1   | 45.9   | 45.0   | 48.0   | 46.7   | 47.3   | 47.3   | 44.9 |    |    |    |    |    |
| LCC SCHENECTADY    | 200    | 41.8   | 44.1   | 44.5   | 45.0   | 47.3   | 45.2   | 49.4   | 46.8   | 49.0   | 48.9   | 46.7 |    |    |    |    |    |
| DATE 12/10/74      | 200    | 47.5   | 46.0   | 47.7   | 46.6   | 49.2   | 49.8   | 50.6   | 49.2   | 48.8   | 48.0   | 44.7 |    |    |    |    |    |
| RUN: 34/1          | 315    | 46.1   | 47.2   | 48.1   | 49.1   | 49.2   | 49.0   | 51.2   | 48.6   | 47.7   | 47.3   | 44.0 |    |    |    |    |    |
| TAPE               | 400    | 44.5   | 46.1   | 46.6   | 47.5   | 47.6   | 48.4   | 48.4   | 47.5   | 47.6   | 46.9   | 43.0 |    |    |    |    |    |
| BAP 29.6 MG        | 500    | 42.4   | 43.6   | 44.5   | 45.9   | 47.2   | 48.4   | 49.3   | 49.4   | 48.7   | 47.3   | 42.3 |    |    |    |    |    |
| ( 99923. R/M2 )    | 630    | 44.6   | 45.2   | 46.9   | 48.3   | 49.7   | 51.0   | 54.7   | 52.3   | 51.1   | 49.6   | 43.0 |    |    |    |    |    |
| TAPB 43. DEG F     | 800    | 42.4   | 44.0   | 50.5   | 48.7   | 52.0   | 53.2   | 60.0   | 53.2   | 53.4   | 50.8   | 43.7 |    |    |    |    |    |
| ( 279. DEG F )     | 1000   | 44.1   | 44.9   | 46.3   | 48.3   | 50.7   | 52.6   | 58.0   | 53.8   | 54.0   | 51.4   | 41.4 |    |    |    |    |    |
| T-ET 38. DEG F     | 1250   | 47.4   | 47.5   | 52.5   | 56.3   | 58.6   | 58.9   | 61.0   | 61.6   | 60.6   | 57.9   | 48.3 |    |    |    |    |    |
| ( 276. DEG K )     | 1500   | 45.0   | 45.6   | 49.5   | 52.1   | 53.2   | 55.8   | 58.8   | 58.6   | 55.8   | 53.2   | 42.6 |    |    |    |    |    |
| MACT 4.60 GM/M3    | 2000   | 40.0   | 41.4   | 43.3   | 45.5   | 47.8   | 49.1   | 49.4   | 46.2   | 47.6   | 45.6   | 38.6 |    |    |    |    |    |
| ( 1.00460 KG/M3 )  | 2500   | 38.3   | 40.2   | 41.7   | 44.4   | 46.6   | 48.2   | 47.9   | 47.4   | 49.1   | 44.0   | 34.7 |    |    |    |    |    |
| NFA 5470. RPM      | 3150   | 37.9   | 38.9   | 40.6   | 43.1   | 46.1   | 46.7   | 49.1   | 48.0   | 50.2   | 46.3   | 34.9 |    |    |    |    |    |
| ( 573. RAD/SEC )   | 4000   | 38.8   | 41.7   | 43.4   | 45.4   | 48.7   | 52.0   | 52.1   | 52.8   | 53.6   | 51.3   | 37.8 |    |    |    |    |    |
| NFK 5558. RPM      | 5000   | 37.2   | 39.0   | 42.1   | 44.4   | 48.2   | 51.7   | 53.3   | 53.2   | 54.7   | 50.8   | 37.3 |    |    |    |    |    |
| ( 582. RAD/SEC )   | 6300   | 37.2   | 39.1   | 41.5   | 43.6   | 48.7   | 51.0   | 52.5   | 53.4   | 53.7   | 49.5   | 35.9 |    |    |    |    |    |
| NPD 8023. RPM      | 8000   | 33.9   | 36.1   | 36.9   | 41.5   | 45.0   | 48.0   | 50.7   | 51.8   | 50.4   | 44.0   | 30.1 |    |    |    |    |    |
| ( 924. RAD/SEC )   | 10000  | 33.3   | 35.2   | 36.6   | 41.1   | 44.8   | 48.1   | 49.8   | 50.3   | 49.9   | 43.1   | 28.1 |    |    |    |    |    |
| NO. OF BLADES 15   | 12500  | 31.3   | 32.4   | 36.2   | 39.4   | 43.5   | 46.8   | 48.3   | 48.0   | 47.7   | 38.3   | 22.1 |    |    |    |    |    |
| FAN TIP SPEED      | 18000  | 25.2   | 28.0   | 31.0   | 33.7   | 37.9   | 41.8   | 42.8   | 43.3   | 40.7   | 38.5   | 11.4 |    |    |    |    |    |
| 478. FT/SEC        | 20000  | 19.6   | 22.7   | 26.7   | 29.8   | 34.8   | 38.1   | 38.6   | 38.0   | 36.3   | 23.0   |      |    |    |    |    |    |
|                    | 25000  | 11.9   | 15.7   | 19.9   | 23.2   | 27.8   | 30.5   | 30.1   | 28.0   | 23.5   | 8.0    |      |    |    |    |    |    |
|                    | 31500  |        | 4.0    | 9.2    | 14.8   | 18.9   | 21.1   | 19.9   | 16.5   | 9.5    |        |      |    |    |    |    |    |
|                    | 40000  |        |        |        |        | 1.4    | 2.7    | 0.7    |        |        |        |      |    |    |    |    |    |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
| OVERALL CALCULATED |        | 57.7   | 58.7   | 61.9   | 64.0   | 65.0   | 66.8   | 67.8   | 68.3   | 69.9   | 69.3   | 68.8 |    |    |    |    |    |
| PNCR               |        | 65.9   | 67.3   | 69.9   | 72.1   | 74.0   | 76.5   | 77.7   | 77.1   | 77.8   | 74.7   | 63.9 |    |    |    |    |    |

AVCO MANUFACTURING CO. INC.

FORM 1411

REVISED 08-01-64

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS 159. LF6, P. 70 PERCENT REL. HUM. (AV)

FREQ. DATE - MON, 12 DAY 17 Mo. 16.4

ANGLES FROM TILLET IN DEGREES (AND RADIANS)

|                     | 53     | 64     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 159    | 0     | 0  | 0   | 0   | 0   | 0   | 0   | 0     |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|----|-----|-----|-----|-----|-----|-------|
| FREQ.               | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0     | 0  | 0   | 0   | 0   | 0   | 0   | 0     |
| RADIA. 17. FT.      | 50     | 53     | 57     | 60     | 63     | 66     | 69     | 72     | 75     | 78     | 81     | 84    | 87 | 90  | 93  | 96  | 99  | 102 | 105   |
| RADIA. 17. FT.      | 60     | 63     | 67     | 70     | 73     | 76     | 79     | 82     | 85     | 88     | 91     | 94    | 97 | 100 | 103 | 106 | 109 | 112 | 115   |
| VEHICLE             | 100    | 75.5   | 76.6   | 73.6   | 71.7   | 72.1   | 71.4   | 72.1   | 71.2   | 74.5   | 77.6   | 80.4  |    |     |     |     |     |     | 108.7 |
| VEHICLE             | 125    | 71.5   | 71.1   | 71.9   | 70.9   | 74.6   | 71.4   | 71.1   | 73.7   | 75.2   | 77.3   | 79.6  |    |     |     |     |     |     | 108.1 |
| CYCLIC              | 150    | 69.8   | 69.1   | 69.4   | 68.4   | 71.9   | 70.2   | 71.6   | 73.4   | 75.5   | 78.0   | 79.6  |    |     |     |     |     |     | 107.7 |
| LCC SCHEMECTAL      | 200    | 69.3   | 68.1   | 68.9   | 68.7   | 72.6   | 73.9   | 74.1   | 75.9   | 77.2   | 80.1   | 81.6  |    |     |     |     |     |     | 109.4 |
| DATE 12/10/74       | 250    | 79.0   | 71.6   | 72.6   | 73.1   | 75.4   | 74.6   | 75.3   | 76.1   | 77.2   | 78.6   | 79.6  |    |     |     |     |     |     | 109.7 |
| RUN 34/2            | 315    | 73.3   | 73.9   | 74.1   | 74.2   | 78.6   | 75.2   | 74.8   | 75.4   | 76.7   | 78.9   | 79.3  |    |     |     |     |     |     | 110.3 |
| TYPE                | 400    | 71.3   | 72.1   | 72.1   | 72.2   | 75.9   | 73.7   | 73.6   | 74.9   | 76.7   | 78.3   | 78.8  |    |     |     |     |     |     | 109.1 |
| BAR 29.6 MG         | 500    | 69.6   | 69.9   | 69.6   | 70.6   | 74.9   | 73.9   | 74.9   | 75.7   | 77.2   | 78.3   | 77.6  |    |     |     |     |     |     | 108.8 |
| (99923. H/M2)       | 650    | 71.9   | 71.9   | 72.9   | 73.7   | 74.9   | 76.9   | 78.9   | 79.2   | 80.2   | 80.6   | 78.4  |    |     |     |     |     |     | 111.4 |
| TAMB 42. DEG F      | 800    | 74.5   | 73.4   | 74.4   | 73.9   | 76.9   | 74.4   | 78.6   | 79.4   | 80.7   | 80.3   | 78.1  |    |     |     |     |     |     | 112.0 |
| (279. DEG F)        | 1000   | 75.6   | 71.4   | 71.9   | 73.0   | 76.1   | 78.2   | 78.8   | 80.4   | 81.5   | 81.6   | 78.6  |    |     |     |     |     |     | 112.1 |
| TMET 38. DEG F      | 1250   | 70.9   | 70.4   | 72.9   | 74.7   | 77.2   | 78.7   | 80.3   | 81.6   | 83.0   | 83.1   | 77.4  |    |     |     |     |     |     | 113.3 |
| (276. DEG F)        | 1500   | 74.2   | 74.7   | 76.1   | 79.8   | 83.0   | 84.7   | 84.8   | 86.9   | 88.7   | 87.1   | 80.4  |    |     |     |     |     |     | 118.0 |
| MACT 4.90 GH/M3     | 2000   | 65.9   | 68.7   | 69.9   | 72.1   | 73.7   | 75.7   | 77.1   | 77.6   | 78.0   | 77.9   | 74.4  |    |     |     |     |     |     | 109.4 |
| (00490 KG/M3)       | 2500   | 67.7   | 67.7   | 68.9   | 70.6   | 72.5   | 74.5   | 74.3   | 73.1   | 75.2   | 72.9   | 71.8  |    |     |     |     |     |     | 106.8 |
| NFA 6243. RPP       | 3150   | 67.7   | 67.7   | 69.8   | 71.6   | 74.3   | 77.0   | 77.5   | 78.6   | 82.0   | 79.4   | 74.8  |    |     |     |     |     |     | 110.0 |
| (654. RAD/SEC)      | 4000   | 67.9   | 68.4   | 70.3   | 73.1   | 76.5   | 79.5   | 79.7   | 81.5   | 83.9   | 81.1   | 75.8  |    |     |     |     |     |     | 113.1 |
| NFR 348. RPH        | 5000   | 68.3   | 68.7   | 71.5   | 72.8   | 76.7   | 79.9   | 81.1   | 83.7   | 86.6   | 84.1   | 77.2  |    |     |     |     |     |     | 115.1 |
| (893. RAD/SEC)      | 6500   | 67.9   | 68.7   | 70.7   | 72.5   | 76.3   | 79.9   | 81.9   | 84.8   | 86.4   | 83.5   | 76.8  |    |     |     |     |     |     | 115.3 |
| NFD 823. RPH        | 8000   | 66.0   | 67.2   | 69.0   | 71.5   | 74.5   | 79.1   | 81.7   | 83.7   | 84.2   | 80.5   | 74.6  |    |     |     |     |     |     | 113.9 |
| (924. RAD/SEC)      | 10000  | 66.6   | 67.5   | 69.0   | 72.5   | 76.4   | 79.7   | 82.5   | 84.2   | 86.4   | 82.5   | 76.1  |    |     |     |     |     |     | 115.3 |
| NO. OF BLADES 15    | 12500  | 67.8   | 67.5   | 69.2   | 73.1   | 77.3   | 79.3   | 83.1   | 84.6   | 86.4   | 81.9   | 76.5  |    |     |     |     |     |     | 115.7 |
| FAN TIP SPEED       | 18000  | 65.4   | 65.7   | 67.5   | 70.8   | 75.2   | 78.5   | 81.2   | 83.9   | 85.1   | 79.2   | 74.0  |    |     |     |     |     |     | 114.6 |
| 545. FT/SEC         | 20000  | 69.4   | 66.1   | 68.5   | 72.2   | 76.6   | 79.9   | 81.8   | 84.7   | 87.3   | 81.5   | 75.0  |    |     |     |     |     |     | 116.5 |
|                     | 25000  | 67.8   | 66.7   | 69.0   | 72.8   | 76.7   | 79.3   | 81.5   | 83.3   | 84.8   | 80.5   | 74.2  |    |     |     |     |     |     | 115.0 |
|                     | 31500  | 65.8   | 66.1   | 68.2   | 73.4   | 77.5   | 80.7   | 81.7   | 83.3   | 84.0   | 79.8   | 72.1  |    |     |     |     |     |     | 110.6 |
|                     | 40000  | 65.7   | 64.3   | 67.5   | 69.7   | 75.0   | 77.4   | 78.8   | 80.1   | 81.3   | 77.0   | 67.9  |    |     |     |     |     |     | 115.1 |
|                     | 50000  | 67.6   | 64.7   | 69.0   | 67.0   | 71.8   | 72.9   | 74.6   | 74.5   | 75.7   | 72.4   | 64.8  |    |     |     |     |     |     | 112.9 |
|                     | 63000  | 69.5   | 65.4   | 70.2   | 66.1   | 70.4   | 68.8   | 69.7   | 68.5   | 69.7   | 67.4   | 64.7  |    |     |     |     |     |     | 111.8 |
|                     | 80000  | 72.6   | 67.4   | 70.9   | 67.4   | 69.6   | 69.8   | 68.5   | 67.8   | 66.8   | 67.2   | 65.8  |    |     |     |     |     |     | 115.0 |
| OVERALL MEASUREMENT |        |        |        |        |        |        |        |        |        |        |        |       |    |     |     |     |     |     |       |
| OVERALL CALCULATED  |        | 85.1   | 85.3   | 86.3   | 87.5   | 90.8   | 92.7   | 94.1   | 95.9   | 97.4   | 98.3   | 91.6  |    |     |     |     |     |     | 120.2 |
| PWDF                |        | 94.9   | 95.2   | 97.3   | 99.7   | 101.8  | 103.8  | 104.4  | 106.3  | 108.3  | 106.8  | 102.2 |    |     |     |     |     |     |       |

79-10-100 (REV. 10-74) 79-10-100 (REV. 10-74)

HOTEL SOUND PRESSURE LEVELS 159. DFC, F = 70 PERCENT DEL, NUM, SAY  
PHG, DATE = MONTH 12 DAY 17 HR. 16.4  
ANGLES FROM INLET IN DEGREES (3RD QUANT)53. 62. 71. 81. 91. 101. 111. 122. 133. 143. 156. 0. 0. 0. 0. 0.  
DFC, (0.72) (1.08) (1.24) (1.41) (1.58) (1.76) (1.94) (2.13) (2.32) (2.52) (2.73) (0. 0. 0. 0. 0.)

| SIDE LVE           | 200. FT.   | 53   | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 143  | 156  | 0 | 0 | 0 | 0 | 0 |
|--------------------|------------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|
| 50                 |            |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| 63                 |            |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| VEHICLE            | 100        | 51.4 | 53.9 | 51.6 | 50.0 | 50.5 | 49.7 | 49.9 | 48.1 | 50.0 | 51.0 | 50.3 |   |   |   |   |   |
| CONFIG             | 10         | 47.8 | 48.3 | 49.7 | 49.1 | 53.0 | 49.0 | 48.8 | 50.5 | 50.7 | 50.7 | 49.4 |   |   |   |   |   |
| LOC SCHEMECTAY     | 200        | 45.2 | 46.2 | 47.2 | 47.6 | 50.1 | 48.3 | 49.2 | 50.2 | 50.8 | 51.6 | 49.1 |   |   |   |   |   |
| DATE               | 12/10/74   | 45.1 | 45.1 | 46.6 | 47.7 | 50.8 | 51.9 | 51.7 | 52.6 | 52.5 | 53.1 | 50.9 |   |   |   |   |   |
| RUN                | 34/2       | 49.1 | 49.5 | 50.2 | 51.1 | 53.5 | 52.6 | 52.8 | 52.7 | 52.3 | 51.5 | 48.7 |   |   |   |   |   |
| TAVE               | 450        | 49.1 | 50.7 | 51.6 | 52.1 | 56.7 | 53.0 | 52.2 | 51.9 | 51.7 | 51.6 | 48.3 |   |   |   |   |   |
| BAR                | 9.0 MG     | 47.3 | 48.7 | 49.6 | 50.0 | 53.8 | 51.4 | 50.9 | 51.3 | 51.8 | 50.9 | 47.5 |   |   |   |   |   |
| (199823. H/MHZ)    | 500        | 45.2 | 46.5 | 47.0 | 48.7 | 52.7 | 51.0 | 52.0 | 51.9 | 52.0 | 50.8 | 46.0 |   |   |   |   |   |
| TANG               | 42 DEG F   | 47.3 | 48.4 | 50.1 | 51.3 | 52.7 | 54.5 | 55.9 | 55.3 | 54.6 | 52.8 | 46.5 |   |   |   |   |   |
| (1279. DEG M)      | 400        | 42.9 | 49.8 | 51.5 | 51.5 | 54.5 | 55.9 | 55.5 | 55.4 | 55.2 | 52.4 | 46.0 |   |   |   |   |   |
| T-CT               | 38. DEG F  | 45.9 | 47.4 | 48.8 | 51.3 | 53.7 | 55.5 | 55.7 | 56.2 | 55.8 | 53.4 | 44.4 |   |   |   |   |   |
| (1276. DEG M)      | 1500       | 45.9 | 46.5 | 49.7 | 52.3 | 54.6 | 55.9 | 57.0 | 57.3 | 57.1 | 54.7 | 44.5 |   |   |   |   |   |
| HACT               | 6.90 GM/M3 | 43.5 | 50.6 | 54.8 | 56.6 | 63.2 | 61.8 | 61.3 | 62.4 | 60.6 | 58.4 | 47.1 |   |   |   |   |   |
| (100490. H/G/M3)   | 2000       | 43.5 | 44.4 | 48.3 | 49.0 | 50.8 | 52.6 | 53.4 | 52.9 | 51.6 | 48.8 | 40.6 |   |   |   |   |   |
| NFA                | 6243. RPM  | 42.0 | 43.2 | 45.1 | 47.3 | 49.4 | 51.2 | 50.4 | 48.2 | 48.6 | 43.5 | 37.6 |   |   |   |   |   |
| (1654. ROT/SEC)    | 4000       | 41.6 | 42.9 | 45.8 | 48.1 | 50.7 | 53.4 | 53.3 | 53.3 | 55.0 | 49.5 | 39.9 |   |   |   |   |   |
| NFR                | 348. RPM   | 41.3 | 43.1 | 45.8 | 49.2 | 52.7 | 55.4 | 55.1 | 55.8 | 56.3 | 50.5 | 39.6 |   |   |   |   |   |
| (1889. RPM/SEC)    | 6300       | 41.5 | 43.1 | 48.8 | 48.6 | 52.7 | 55.7 | 56.3 | 57.7 | 58.7 | 53.0 | 40.6 |   |   |   |   |   |
| NFB                | 8023. RPM  | 40.1 | 42.4 | 45.2 | 47.6 | 51.0 | 54.9 | 56.3 | 57.9 | 57.5 | 51.2 | 38.3 |   |   |   |   |   |
| (1924. ROT/SEC)    | 10000      | 36.9 | 39.5 | 42.4 | 45.5 | 48.7 | 53.0 | 54.9 | 55.6 | 53.8 | 46.3 | 33.4 |   |   |   |   |   |
| NO. OF BLATES      | 15         | 35.5 | 38.2 | 40.8 | 45.0 | 49.0 | 52.1 | 54.0 | 54.3 | 53.8 | 45.6 | 30.9 |   |   |   |   |   |
| FAH TIP SPEED      | 16000      | 33.9 | 35.6 | 38.6 | 43.3 | 47.7 | 49.5 | 52.3 | 52.0 | 50.9 | 41.0 | 25.6 |   |   |   |   |   |
| 545. FT/SEC        | 20000      | 28.9 | 29.7 | 33.2 | 37.4 | 42.1 | 45.0 | 46.5 | 47.0 | 44.4 | 31.9 | 13.6 |   |   |   |   |   |
|                    | 25000      | 21.8 | 24.6 | 29.1 | 34.0 | 38.7 | 41.6 | 42.0 | 42.2 | 39.9 | 25.7 | 2.2  |   |   |   |   |   |
|                    | 31500      | 13.7 | 17.4 | 22.4 | 27.7 | 32.5 | 34.0 | 34.4 | 32.6 | 28.0 | 12.0 |      |   |   |   |   |   |
|                    | 40000      | 5.4  | 11.1 | 18.2 | 22.9 | 25.3 | 23.9 | 20.8 | 13.2 |      |      |      |   |   |   |   |   |
|                    | 50000      |      |      |      |      | 5.6  | 7.0  | 5.2  |      |      |      |      |   |   |   |   |   |
|                    | 63000      |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| OVERALL CALCULATED |            | 59.3 | 68.9 | 62.3 | 63.6 | 68.8 | 67.8 | 68.1 | 68.7 | 68.3 | 65.3 | 59.9 |   |   |   |   |   |
| PMDR               |            | 69.0 | 70.5 | 73.4 | 75.3 | 78.6 | 80.2 | 80.2 | 80.6 | 80.9 | 78.9 | 67.7 |   |   |   |   |   |

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PAGE 1 FULL SCALE DATA RESTRICTION PROGRAM

FREQ. DATE & MONTH 12 DAY 17 YR. 1964

MODEL SOUND PRESSURE LEVELS (59. DEC. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53      | 62      | 71      | 81      | 91      | 101     | 111     | 122     | 133     | 145     | 156     | 0    | 0   | 0   | 0   | 0    | 0    | PdL  |       |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|-----|-----|-----|------|------|------|-------|
| FREQ.              | (1.522) | (1.000) | (1.124) | (1.141) | (1.158) | (1.176) | (1.194) | (2.133) | (2.322) | (2.521) | (2.731) | (0)  | (0) | (0) | (0) | (0)  | (0)  |      |       |
| RADIAL             | 17. FT. | 50      | 63      | 80      | 100     | 125     | 150     | 175     | 200     | 250     | 315     | 400  | 500 | 630 | 800 | 1000 | 1250 | 1500 |       |
| VEHICLE            | 125     | 69.5    | 72.6    | 72.9    | 71.7    | 71.6    | 72.7    | 71.9    | 72.2    | 76.0    | 66.3    | 64.1 |     |     |     |      |      |      | 109.0 |
| CONFIG             | 16      | 125     | 75.8    | 79.4    | 78.9    | 76.4    | 75.4    | 74.2    | 74.4    | 77.4    | 78.5    | 80.6 |     |     |     |      |      |      | 112.2 |
| LGC SCHENECTADY    | 200     | 160     | 72.5    | 72.7    | 72.9    | 73.2    | 73.4    | 73.7    | 75.4    | 76.9    | 79.5    | 82.1 |     |     |     |      |      |      | 111.4 |
| DATE 12/10/74      | 250     | 200     | 71.5    | 70.7    | 71.4    | 72.4    | 74.6    | 76.9    | 77.1    | 78.9    | 81.0    | 83.3 |     |     |     |      |      |      | 112.6 |
| RUN 34/3           | 315     | 250     | 75.3    | 75.4    | 75.9    | 76.6    | 77.4    | 78.4    | 78.4    | 79.4    | 86.7    | 82.8 |     |     |     |      |      |      | 113.3 |
| TAPE               | 400     | 315     | 76.5    | 76.9    | 77.1    | 77.4    | 77.9    | 78.7    | 78.3    | 78.6    | 80.2    | 82.3 |     |     |     |      |      |      | 113.3 |
| BAR 29.6 HG        | 500     | 400     | 75.1    | 74.9    | 74.6    | 75.4    | 76.1    | 76.7    | 77.1    | 77.9    | 79.7    | 81.8 |     |     |     |      |      |      | 112.0 |
| (W9923. N/H2)      | 630     | 500     | 77.8    | 72.6    | 72.4    | 73.9    | 74.0    | 76.4    | 77.9    | 78.9    | 80.2    | 81.6 |     |     |     |      |      |      | 111.7 |
| TAMB 42. DEG F     | 800     | 630     | 74.9    | 73.8    | 74.9    | 75.0    | 77.4    | 79.2    | 80.6    | 81.7    | 82.0    | 83.3 |     |     |     |      |      |      | 113.7 |
| (1279. DEG K)      | 1000    | 800     | 74.6    | 76.1    | 76.4    | 76.7    | 78.6    | 80.7    | 81.3    | 81.6    | 83.0    | 82.4 |     |     |     |      |      |      | 114.4 |
| TNET 36. DEG F     | 1250    | 1000    | 73.6    | 73.4    | 73.4    | 75.9    | 74.4    | 79.9    | 81.1    | 82.6    | 84.2    | 83.1 |     |     |     |      |      |      | 114.3 |
| (1276. DEG K)      | 1500    | 1250    | 73.4    | 72.9    | 74.9    | 77.2    | 78.7    | 80.7    | 82.3    | 82.9    | 84.5    | 83.9 |     |     |     |      |      |      | 114.9 |
| MACT 4.90 GM/M3    | 2000    | 1500    | 77.9    | 76.4    | 77.6    | 79.0    | 81.5    | 83.0    | 83.6    | 84.9    | 87.0    | 86.1 |     |     |     |      |      |      | 117.1 |
| (1.00490 KG/M3)    | 2500    | 2000    | 75.4    | 74.2    | 74.4    | 77.1    | 79.0    | 81.2    | 81.6    | 82.6    | 84.5    | 84.1 |     |     |     |      |      |      | 114.9 |
| NFA 7328. RPM      | 3150    | 2500    | 78.9    | 71.5    | 72.1    | 74.6    | 76.3    | 77.8    | 77.6    | 76.4    | 78.0    | 76.4 |     |     |     |      |      |      | 110.1 |
| (736. RAD/SEC)     | 4000    | 3150    | 71.2    | 71.5    | 72.3    | 74.6    | 77.3    | 79.8    | 80.3    | 81.1    | 84.2    | 79.9 |     |     |     |      |      |      | 113.3 |
| NFK 7146. RPM      | 5000    | 4000    | 71.4    | 72.2    | 73.5    | 76.4    | 80.0    | 82.5    | 83.0    | 84.5    | 87.7    | 83.6 |     |     |     |      |      |      | 116.3 |
| (748. RAD/SEC)     | 6300    | 5000    | 71.3    | 72.4    | 73.2    | 75.4    | 79.0    | 82.7    | 83.4    | 85.9    | 90.1    | 85.1 |     |     |     |      |      |      | 117.9 |
| NFD 8823. RPM      | 8000    | 6300    | 71.2    | 71.7    | 73.2    | 76.5    | 78.6    | 82.9    | 84.7    | 87.3    | 89.4    | 85.5 |     |     |     |      |      |      | 116.0 |
| (924. RAD/SEC)     | 10000   | 8000    | 68.3    | 70.7    | 72.0    | 75.5    | 78.0    | 82.6    | 84.7    | 87.0    | 88.2    | 83.0 |     |     |     |      |      |      | 117.3 |
| NO. OF BLADES 15   | 12500   | 10000   | 69.6    | 71.0    | 73.0    | 76.3    | 79.4    | 83.4    | 85.7    | 87.7    | 89.6    | 84.2 |     |     |     |      |      |      | 118.5 |
| FAN TIP SPEED      | 15000   | 12500   | 70.1    | 70.5    | 72.7    | 76.1    | 80.5    | 83.3    | 86.1    | 88.3    | 89.8    | 84.6 |     |     |     |      |      |      | 119.0 |
| 614. FT/SEC        | 20000   | 15000   | 67.6    | 68.9    | 70.5    | 74.3    | 78.5    | 82.0    | 84.7    | 87.4    | 87.6    | 82.2 |     |     |     |      |      |      | 117.7 |
| OVERALL MEASURED   | 25000   | 20000   | 63.7    | 69.1    | 71.5    | 76.0    | 79.8    | 82.9    | 85.3    | 84.5    | 90.3    | 84.0 |     |     |     |      |      |      | 119.7 |
| OVERALL CALCULATED | 30000   | 25000   | 67.5    | 68.9    | 72.0    | 76.3    | 80.9    | 83.5    | 85.2    | 88.0    | 89.6    | 84.0 |     |     |     |      |      |      | 120.1 |
| PNDP               | 35000   | 30000   | 67.8    | 68.6    | 72.0    | 77.1    | 81.2    | 84.2    | 85.2    | 86.8    | 87.7    | 82.6 |     |     |     |      |      |      | 120.2 |
|                    | 40000   | 35000   | 66.5    | 66.3    | 69.7    | 73.7    | 78.0    | 80.6    | 82.7    | 84.1    | 85.0    | 80.0 |     |     |     |      |      |      | 118.7 |
|                    | 50000   | 40000   | 68.1    | 65.7    | 69.2    | 69.8    | 73.8    | 75.9    | 78.6    | 76.5    | 79.4    | 75.9 |     |     |     |      |      |      | 119.8 |
|                    | 63000   | 50000   | 70.3    | 65.4    | 69.5    | 66.9    | 70.9    | 70.8    | 72.2    | 71.2    | 72.4    | 69.9 |     |     |     |      |      |      | 113.3 |
|                    | 80000   | 63000   | 72.6    | 67.4    | 70.4    | 67.4    | 69.1    | 69.8    | 68.5    | 67.6    | 68.0    | 67.2 |     |     |     |      |      |      | 115.8 |

NOISE MEASUREMENT SYSTEM

|                    |        | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0      | 0      | 0      | 0      | 0      | 0 |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.95) | (3.18) | (3.42) | (3.67) | (3.93) | (4.20) |   |
| SIDELINE 200. FT.  | 63     |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |
| (60.96 ft)         | 100    | 45.4   | 49.9   | 50.8   | 50.0   | 50.0   | 50.9   | 49.7   | 49.1   | 51.5   | 53.8   | 54.0   |        |        |        |        |        |   |
| VEHICLE R-55       | 125    | 52.3   | 56.5   | 56.7   | 54.5   | 53.7   | 52.3   | 52.1   | 54.3   | 53.9   | 53.9   | 53.4   |        |        |        |        |        |   |
| COFFIC 16          | 150    | 44.7   | 50.0   | 50.7   | 51.3   | 51.6   | 51.0   | 53.0   | 53.7   | 54.4   | 55.3   | 53.4   |        |        |        |        |        |   |
| LDC SCHENECTADY    | 270    | 47.6   | 47.9   | 49.1   | 50.5   | 52.8   | 54.9   | 54.7   | 55.6   | 56.2   | 56.4   | 54.4   |        |        |        |        |        |   |
| LATE 12/10/74      | 250    | 51.2   | 52.3   | 53.3   | 54.4   | 55.5   | 56.3   | 56.3   | 56.0   | 55.4   | 55.7   | 53.2   |        |        |        |        |        |   |
| RUH 34/3           | 315    | 52.4   | 53.7   | 54.6   | 55.3   | 55.9   | 56.5   | 55.7   | 55.1   | 55.7   | 55.1   | 52.8   |        |        |        |        |        |   |
| TAPE               | 400    | 50.8   | 51.6   | 52.1   | 53.2   | 54.1   | 54.4   | 54.4   | 54.3   | 54.6   | 54.4   | 51.3   |        |        |        |        |        |   |
| BAR 29.6 HG        | 500    | 48.4   | 49.3   | 49.7   | 51.7   | 52.7   | 54.1   | 55.0   | 55.2   | 55.0   | 54.0   | 49.8   |        |        |        |        |        |   |
| (W3823. 4/11/2)    | 630    | 50.3   | 50.2   | 52.1   | 53.6   | 55.2   | 56.8   | 57.7   | 57.8   | 56.4   | 55.6   | 49.8   |        |        |        |        |        |   |
| TAMB 42 DEG F      | 800    | 51.3   | 52.3   | 53.3   | 54.2   | 55.3   | 56.2   | 56.3   | 57.2   | 57.4   | 54.9   | 49.7   |        |        |        |        |        |   |
| (1279. DEG F)      | 1000   | 48.4   | 48.5   | 50.3   | 53.3   | 55.9   | 57.3   | 57.9   | 58.5   | 58.5   | 54.9   | 47.9   |        |        |        |        |        |   |
| T-ET 38. DEG F     | 1250   | 49.4   | 49.3   | 51.7   | 54.5   | 56.1   | 57.9   | 59.0   | 59.6   | 58.6   | 55.4   | 47.3   |        |        |        |        |        |   |
| (276. DEG F)       | 1600   | 52.7   | 52.3   | 54.3   | 56.1   | 58.7   | 60.0   | 60.1   | 60.4   | 60.9   | 57.4   | 47.6   |        |        |        |        |        |   |
| MACT 4.30 CM/M3    | 2000   | 50.3   | 49.3   | 50.8   | 54.3   | 56.0   | 58.1   | 57.9   | 57.9   | 58.1   | 55.1   | 45.6   |        |        |        |        |        |   |
| (600498 KG/M3)     | 2500   | 45.2   | 47.0   | 48.4   | 51.3   | 53.1   | 54.4   | 53.7   | 51.4   | 51.4   | 47.0   | 41.4   |        |        |        |        |        |   |
| NFA 7028. RPM      | 3150   | 45.1   | 46.6   | 48.3   | 51.1   | 53.9   | 56.2   | 56.1   | 55.8   | 57.2   | 50.0   | 41.9   |        |        |        |        |        |   |
| (730. RAT/SEC)     | 4000   | 44.4   | 46.7   | 49.1   | 52.4   | 56.2   | 58.4   | 58.3   | 56.8   | 60.1   | 53.0   | 42.5   |        |        |        |        |        |   |
| NFK 714. RPM       | 5000   | 44.5   | 46.8   | 49.5   | 51.4   | 54.3   | 58.4   | 60.5   | 59.9   | 62.2   | 54.0   | 42.3   |        |        |        |        |        |   |
| (748. RAT/SEC)     | 6300   | 43.4   | 45.4   | 47.7   | 51.6   | 53.8   | 57.9   | 59.0   | 60.4   | 60.5   | 53.2   | 40.8   |        |        |        |        |        |   |
| NFD 8023. RPM      | 8000   | 39.6   | 43.3   | 45.4   | 49.5   | 52.2   | 56.5   | 57.9   | 58.8   | 57.8   | 49.8   | 35.9   |        |        |        |        |        |   |
| (924. RAT/SEC)     | 10000  | 33.5   | 41.7   | 44.5   | 48.8   | 52.0   | 55.8   | 57.3   | 57.8   | 57.1   | 47.3   | 33.1   |        |        |        |        |        |   |
| NO. OF BLADES 15   | 12500  | 36.2   | 38.6   | 42.1   | 46.3   | 51.0   | 53.5   | 55.3   | 55.7   | 54.2   | 43.8   | 28.1   |        |        |        |        |        |   |
| PAN TIP SPEED      | 18000  | 29.1   | 32.9   | 36.2   | 40.9   | 45.3   | 48.5   | 50.0   | 50.5   | 46.8   | 34.9   | 18.6   |        |        |        |        |        |   |
| 614. FT/SEC        | 20000  | 23.5   | 27.6   | 32.1   | 37.7   | 42.0   | 44.6   | 45.5   | 45.9   | 42.9   | 28.2   | 5.2    |        |        |        |        |        |   |
|                    | 25000  | 19.2   | 19.7   | 23.4   | 31.2   | 36.3   | 38.3   | 38.1   | 37.4   | 32.8   | 16.1   |        |        |        |        |        |        |   |
|                    | 31500  | 1.8    | 8.2    | 14.9   | 21.9   | 26.7   | 28.8   | 27.4   | 24.3   | 18.9   |        |        |        |        |        |        |        |   |
|                    | 40000  |        |        |        | 3.6    | 8.6    | 10.2   | 9.0    | 3.9    |        |        |        |        |        |        |        |        |   |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |
| OVERALL CALCULATED |        | 62.3   | 63.7   | 64.8   | 66.3   | 68.1   | 70.0   | 70.9   | 70.7   | 71.0   | 67.9   | 63.2   |        |        |        |        |        |   |
| PMCF               |        | 72.5   | 73.3   | 75.0   | 77.6   | 80.3   | 82.5   | 83.1   | 83.8   | 84.1   | 78.4   | 78.2   |        |        |        |        |        |   |

MODEL SOUNDING SYSTEM, INC. NO. 12000 1011  
 PHOENIX, ARIZONA U.S.A. 85016



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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

HOTEL SOUND PRESSURE LEVELS (59. DFG. F. 70 PERCENT REL. HUM. EAV)  
 ANGLES FROM INLET IN DEGREES (ARC TANGENT)

1. ACC. DATE - NOV. 12 DAY 17 HR. 10.5

|                    | 53     | 62     | 71     | 81    | 91     | 101    | 111    | 121    | 133    | 145    | 155    | 0    | 0  | 0  | 0  | 0  | 0  | 0  | 0  |       |       |
|--------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|----|----|-------|-------|
| FREQ. (CPS)        | (1.02) | (1.58) | (1.24) | (1.4) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0    | 0  | 0  | 0  | 0  | 0  | 0  | 0  |       |       |
|                    | 30     | 30     | 30     | 30    | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30   | 30 | 30 | 30 | 30 | 30 | 30 | 30 |       |       |
| RADIAL 17. FT.     | 100    | 69.3   | 72.4   | 73.4  | 73.1   | 74.4   | 74.7   | 74.4   | 75.2   | 79.5   | 84.8   | 87.8 |    |    |    |    |    |    |    | 113.0 |       |
| VEHICLE 15. FT.    | 125    | 76.1   | 77.1   | 75.6  | 75.7   | 77.4   | 78.2   | 78.9   | 79.9   | 81.7   | 84.3   | 87.4 |    |    |    |    |    |    |    |       | 114.5 |
| COMM 16            | 160    | 75.5   | 75.7   | 75.6  | 76.4   | 76.4   | 76.9   | 78.9   | 80.2   | 83.2   | 85.3   | 87.6 |    |    |    |    |    |    |    |       | 114.8 |
| LOC SCHEMECTACY    | 200    | 74.0   | 73.5   | 74.4  | 75.7   | 77.9   | 80.1   | 80.4   | 81.9   | 84.0   | 87.3   | 89.3 |    |    |    |    |    |    |    |       | 116.2 |
| DATE 12/10/74      | 250    | 79.1   | 79.8   | 81.4  | 82.4   | 83.4   | 84.1   | 84.8   | 86.1   | 86.7   | 88.3   | 89.3 |    |    |    |    |    |    |    |       | 116.0 |
| RUM 34/4           | 315    | 79.3   | 80.1   | 79.7  | 80.4   | 80.7   | 81.7   | 81.6   | 82.4   | 83.7   | 85.4   | 87.1 |    |    |    |    |    |    |    |       | 116.6 |
| TAPE               | 400    | 78.1   | 78.4   | 77.6  | 78.4   | 78.4   | 79.7   | 80.4   | 81.4   | 83.0   | 85.1   | 86.1 |    |    |    |    |    |    |    |       | 115.3 |
| BAR 29.5 HG        | 500    | 73.8   | 75.7   | 75.6  | 76.4   | 77.9   | 79.9   | 80.9   | 82.4   | 83.5   | 84.9   | 85.1 |    |    |    |    |    |    |    |       | 114.9 |
| 100023. H/M21      | 630    | 74.6   | 77.1   | 77.6  | 78.4   | 80.2   | 82.4   | 83.4   | 84.7   | 85.2   | 85.1   | 84.9 |    |    |    |    |    |    |    |       | 116.5 |
| TAMB 42. DEG F     | 800    | 78.6   | 78.4   | 79.1  | 79.4   | 81.1   | 82.9   | 83.8   | 84.6   | 85.7   | 85.1   | 84.6 |    |    |    |    |    |    |    |       | 117.8 |
| (279. DEG F)       | 1000   | 76.4   | 77.1   | 76.4  | 78.7   | 80.9   | 82.7   | 83.8   | 84.0   | 86.0   | 85.3   | 83.3 |    |    |    |    |    |    |    |       | 116.7 |
| TMET 38. DEG F     | 1250   | 76.2   | 76.5   | 77.4  | 78.5   | 80.9   | 83.0   | 84.1   | 85.1   | 86.2   | 85.4   | 82.9 |    |    |    |    |    |    |    |       | 116.9 |
| (276. DEG F)       | 1500   | 76.2   | 76.7   | 78.1  | 79.5   | 81.5   | 83.5   | 84.1   | 84.4   | 85.5   | 85.9   | 81.6 |    |    |    |    |    |    |    |       | 116.6 |
| HAET 4.60 CM/M3    | 2000   | 77.2   | 77.0   | 77.6  | 79.1   | 82.2   | 84.2   | 84.8   | 86.1   | 86.0   | 84.9   | 81.9 |    |    |    |    |    |    |    |       | 117.8 |
| (60490 K/M3)       | 2500   | 74.4   | 74.7   | 75.1  | 77.4   | 79.5   | 80.5   | 79.8   | 79.9   | 81.0   | 80.1   | 79.1 |    |    |    |    |    |    |    |       | 113.1 |
| NFA 7001. RPM      | 3150   | 74.4   | 74.2   | 75.6  | 77.9   | 80.5   | 82.5   | 82.3   | 83.3   | 84.7   | 81.1   | 78.3 |    |    |    |    |    |    |    |       | 115.2 |
| (817. RAD/SEC)     | 4000   | 74.6   | 75.7   | 76.8  | 80.1   | 83.5   | 86.2   | 86.0   | 86.8   | 90.4   | 84.6   | 81.8 |    |    |    |    |    |    |    |       | 116.7 |
| NFK 7932. RPM      | 5000   | 73.6   | 74.4   | 75.7  | 78.1   | 81.7   | 85.7   | 85.4   | 86.7   | 91.4   | 85.6   | 81.4 |    |    |    |    |    |    |    |       | 119.0 |
| (830. RAD/SEC)     | 6300   | 74.7   | 75.5   | 76.5  | 80.3   | 83.1   | 86.9   | 87.7   | 92.0   | 92.4   | 87.0   | 81.8 |    |    |    |    |    |    |    |       | 121.5 |
| NFD 8023. RPM      | 8000   | 72.5   | 73.7   | 74.5  | 78.2   | 80.8   | 84.6   | 87.4   | 90.0   | 90.0   | 84.2   | 79.9 |    |    |    |    |    |    |    |       | 119.7 |
| (924. RAD/SEC)     | 10000  | 72.4   | 73.8   | 75.5  | 79.3   | 83.1   | 86.2   | 89.0   | 91.0   | 91.6   | 85.5   | 80.6 |    |    |    |    |    |    |    |       | 121.2 |
| NO. OF BLADES 15   | 12500  | 72.6   | 74.0   | 75.9  | 79.0   | 84.3   | 88.3   | 90.3   | 92.3   | 97.6   | 86.4   | 81.0 |    |    |    |    |    |    |    |       | 122.4 |
| FAN TIP SPEED      | 16000  | 70.6   | 71.7   | 73.8  | 77.5   | 82.0   | 85.3   | 87.9   | 90.9   | 90.3   | 84.2   | 79.7 |    |    |    |    |    |    |    |       | 120.6 |
| 681. FT/SEC        | 20000  | 71.2   | 72.3   | 74.8  | 79.2   | 83.6   | 86.7   | 89.6   | 92.2   | 92.5   | 84.0   | 81.0 |    |    |    |    |    |    |    |       | 123.0 |
|                    | 25000  | 71.5   | 72.9   | 75.2  | 80.3   | 84.2   | 86.8   | 90.0   | 92.6   | 93.1   | 87.0   | 81.5 |    |    |    |    |    |    |    |       | 124.1 |
|                    | 31500  | 70.3   | 72.3   | 75.5  | 80.4   | 84.5   | 87.2   | 88.7   | 91.3   | 91.2   | 85.1   | 78.9 |    |    |    |    |    |    |    |       | 123.6 |
|                    | 40000  | 68.7   | 69.6   | 73.0  | 77.2   | 81.5   | 84.1   | 86.2   | 87.8   | 88.3   | 82.5   | 73.9 |    |    |    |    |    |    |    |       | 122.1 |
|                    | 50000  | 64.4   | 67.5   | 70.5  | 73.0   | 76.0   | 79.0   | 82.1   | 82.3   | 83.4   | 76.9   | 69.1 |    |    |    |    |    |    |    |       | 119.4 |
|                    | 63000  | 75.0   | 65.7   | 69.5  | 68.6   | 70.9   | 73.3   | 75.8   | 74.5   | 75.4   | 71.7   | 69.5 |    |    |    |    |    |    |    |       | 115.3 |
|                    | 80000  | 72.6   | 69.9   | 70.4  | 68.1   | 69.1   | 69.2   | 69.7   | 68.8   | 69.8   | 67.7   | 65.0 |    |    |    |    |    |    |    |       | 116.5 |
| OVERALL MEASURED   |        |        |        |       |        |        |        |        |        |        |        |      |    |    |    |    |    |    |    |       |       |
| OVERALL CALCULATED | 49.9   | 92.3   | 91.1   | 93.2  | 96.0   | 98.4   | 100.2  | 102.4  | 103.1  | 99.7   | 98.7   |      |    |    |    |    |    |    |    |       | 124.0 |
| PNCE               | 100.0  | 101.2  | 102.0  | 104.4 | 107.1  | 109.5  | 109.9  | 112.5  | 113.5  | 116.0  | 100.1  |      |    |    |    |    |    |    |    |       |       |

NOON SOUND PUMP, INC. NEW YORK, N.Y. 10013

|                    | 53   | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 150  | 160  | 170  | 180  | 190  |
|--------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                    | ANGLES FROM INLET IN DEGREES (AND RADIANS) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                    | 0.92                                       | 1.08 | 1.24 | 1.41 | 1.58 | 1.74 | 1.91 | 2.08 | 2.25 | 2.42 | 2.59 | 2.76 | 2.93 | 3.10 | 3.27 |
| SIDELINE 200. FT.  | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |
| (60.96 ft)         | 100  | 45.8 | 49.7 | 51.3 | 51.7 | 52.8 | 52.9 | 52.2 | 52.1 | 55.0 | 56.0 | 57.5 |      |      |      |
| VEHICLE R-59       | 125  | 53.0 | 54.3 | 53.5 | 53.7 | 55.7 | 56.3 | 56.6 | 56.8 | 57.2 | 57.7 | 57.1 |      |      |      |
| CC#16 10           | 100  | 51.7 | 53.0 | 53.4 | 54.6 | 54.6 | 55.0 | 56.5 | 56.9 | 58.6 | 59.5 | 57.1 |      |      |      |
| LCC SCHEMECTAZ     | 200  | 57.1 | 59.6 | 52.3 | 57.7 | 56.1 | 59.2 | 57.9 | 58.6 | 59.2 | 60.4 | 58.7 |      |      |      |
| DATE 12/10/74      | 250  | 55.7 | 58.5 | 59.0 | 60.4 | 61.5 | 62.1 | 62.3 | 62.7 | 61.4 | 61.2 | 58.5 |      |      |      |
| RW 3/4             | 315  | 55.6 | 57.0 | 57.4 | 59.3 | 58.9 | 59.5 | 59.0 | 58.9 | 58.7 | 59.6 | 58.0 |      |      |      |
| TAF 400            | 400  | 57.8 | 55.1 | 55.1 | 56.2 | 56.3 | 57.7 | 57.6 | 57.7 | 57.9 | 57.7 | 58.0 |      |      |      |
| BAR 20.6 MG        | 520  | 51.4 | 52.5 | 53.0 | 54.2 | 55.7 | 57.6 | 54.0 | 58.7 | 58.2 | 57.0 | 53.5 |      |      |      |
| (60.96 ft)         | 630  | 52.1 | 53.7 | 54.9 | 56.1 | 57.7 | 60.0 | 60.4 | 60.8 | 58.4 | 57.3 | 53.0 |      |      |      |
| TAMP 42 DEC F      | 600  | 53.9 | 54.3 | 56.2 | 57.1 | 58.5 | 60.4 | 60.6 | 60.7 | 60.2 | 57.1 | 52.5 |      |      |      |
| (276. DEC F)       | 1000                                       | 51.6 | 53.4 | 53.3 | 56.1 | 58.4 | 60.3 | 60.4 | 60.5 | 60.3 | 57.2 | 58.9 |      |      |      |
| TACT 30. DEC F     | 1250                                       | 51.2 | 52.2 | 54.2 | 56.8 | 58.3 | 60.2 | 60.5 | 60.8 | 60.3 | 58.9 | 58.0 |      |      |      |
| (276. DEC F)       | 1500                                       | 50.9 | 52.8 | 54.8 | 57.8 | 58.7 | 60.5 | 60.5 | 59.9 | 59.4 | 55.2 | 48.3 |      |      |      |
| MACT 4.00 CM/M3    | 2000                                       | 51.7 | 52.8 | 53.8 | 56.0 | 56.3 | 61.1 | 61.1 | 61.4 | 61.6 | 59.8 | 48.1 |      |      |      |
| (00400 KG/M3)      | 2500                                       | 48.7 | 50.2 | 51.4 | 54.1 | 56.4 | 57.2 | 55.9 | 54.9 | 54.4 | 50.0 | 44.9 |      |      |      |
| MFA 7001. RPM      | 3150                                       | 48.4 | 49.4 | 51.6 | 54.3 | 57.1 | 58.9 | 58.1 | 58.1 | 57.7 | 51.3 | 43.4 |      |      |      |
| (817. RAD/SEC)     | 4000                                       | 49.1 | 50.4 | 52.3 | 56.2 | 59.7 | 62.2 | 61.3 | 63.0 | 62.4 | 56.0 | 45.0 |      |      |      |
| MFK 7032. RPM      | 5000                                       | 48.7 | 48.8 | 51.3 | 53.9 | 57.7 | 61.4 | 60.5 | 62.7 | 63.4 | 54.5 | 44.8 |      |      |      |
| (838. RAD/SEC)     | 6300                                       | 46.9 | 49.1 | 51.8 | 55.1 | 59.3 | 61.9 | 62.8 | 65.1 | 63.5 | 56.7 | 43.3 |      |      |      |
| MFD 8823. RPM      | 8000                                       | 43.4 | 46.0 | 47.9 | 52.2 | 54.9 | 58.7 | 60.6 | 61.8 | 59.6 | 50.0 | 38.0 |      |      |      |
| (924. RAD/SEC)     | 10000                                      | 41.3 | 44.4 | 47.3 | 51.6 | 55.8 | 58.6 | 60.5 | 61.0 | 59.1 | 48.0 | 35.4 |      |      |      |
| NO. OF BLADES 15   | 12500                                      | 38.7 | 42.1 | 45.4 | 50.1 | 54.7 | 56.5 | 59.5 | 59.7 | 56.9 | 45.5 | 30.8 |      |      |      |
| PM TIP SPEED 16030 | 20000                                      | 32.1 | 35.7 | 39.4 | 44.1 | 48.8 | 51.7 | 53.2 | 54.0 | 49.7 | 36.9 | 19.4 |      |      |      |
| 601. FT/SEC        | 25000                                      | 18.2 | 23.7 | 28.8 | 35.2 | 39.5 | 41.5 | 42.9 | 42.1 | 38.3 | 19.1 |      |      |      |      |
| 31500              | 40000                                      | 4.3  | 11.7 | 16.4 | 25.2 | 29.9 | 31.8 | 30.9 | 28.8 | 26.4 |      |      |      |      |      |
| 50000              | 63000                                      |      |      | 0.2  | 7.1  | 12.1 | 13.7 | 12.5 | 7.7  |      |      |      |      |      |      |
| 80000              |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| OVERALL CALCULATED | 64.8                                       | 66.8 | 67.2 | 69.8 | 71.1 | 73.8 | 73.2 | 74.8 | 73.4 | 78.2 | 80.9 |      |      |      |      |
| PHCC               | 74.6                                       | 78.2 | 77.8 | 80.7 | 83.5 | 85.7 | 89.4 | 86.5 | 86.2 | 88.8 | 73.3 |      |      |      |      |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PHOC DATE - MON, 12 MAY 17 10.0  
HOTEL SOUND PRESSURE LEVELS (50. LFG. F. 70 PERCENT DEL. MIN. EAV)

ANGLES FROM INLET IN DEGREES (AND HAZELANG)

|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 155    | 165   | 175 | 185 | 195 | 205 | PWL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|-----|-------|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 30    | 35  | 40  | 45  | 50  | dB    |
| RADIA 17. FT.      | 50     | 53     | 56     | 59     | 62     | 65     | 68     | 71     | 74     | 77     | 80     | 83    | 86  | 89  | 92  | 95  |       |
| VEHICLE R-75       | 125    | 73.5   | 78.1   | 74.1   | 73.1   | 74.1   | 75.4   | 76.1   | 81.6   | 79.1   | 83.5   | 87.8  |     |     |     |     | 113.8 |
| COMPIC 16          | 160    | 78.0   | 80.5   | 76.6   | 75.9   | 77.9   | 78.1   | 79.1   | 83.4   | 82.4   | 83.7   | 87.6  |     |     |     |     | 115.3 |
| LCC SCHENECTADY    | 230    | 76.7   | 77.3   | 75.3   | 76.1   | 77.9   | 80.1   | 80.8   | 85.6   | 84.1   | 86.4   | 89.0  |     |     |     |     | 116.7 |
| CATE 12/10774      | 250    | 70.0   | 60.3   | 68.5   | 61.9   | 32.1   | 43.1   | 64.3   | 66.1   | 65.9   | 67.2   | 68.3  |     |     |     |     | 110.3 |
| RUN 34/5           | 315    | 80.9   | 61.1   | 60.1   | 60.9   | 61.4   | 61.6   | 62.3   | 64.1   | 64.1   | 65.7   | 67.5  |     |     |     |     | 117.8 |
| TYPE               | 430    | 85.3   | 78.6   | 78.3   | 78.6   | 79.1   | 80.1   | 82.3   | 82.1   | 83.1   | 84.9   | 86.3  |     |     |     |     | 118.8 |
| BAR 20.6 MC        | 530    | 76.6   | 78.1   | 76.5   | 77.1   | 78.1   | 80.1   | 80.8   | 84.0   | 83.4   | 84.2   | 85.6  |     |     |     |     | 115.5 |
| 19923. N/12        | 630    | 77.6   | 78.1   | 78.5   | 79.4   | 80.4   | 82.4   | 84.1   | 85.1   | 85.1   | 85.2   | 85.8  |     |     |     |     | 116.9 |
| TANG 42. JEC F     | 850    | 74.9   | 81.3   | 82.9   | 80.4   | 83.1   | 84.4   | 85.6   | 85.6   | 86.6   | 85.0   | 86.1  |     |     |     |     | 118.8 |
| (279. JEC K)       | 1050   | 83.9   | 78.3   | 77.6   | 79.6   | 81.4   | 82.9   | 83.6   | 84.8   | 85.9   | 85.0   | 83.5  |     |     |     |     | 117.2 |
| TRET 30. JEC F     | 1250   | 84.5   | 76.8   | 77.6   | 79.9   | 81.4   | 82.9   | 84.6   | 85.3   | 86.4   | 84.2   | 83.3  |     |     |     |     | 117.5 |
| (276. JEC K)       | 1530   | 77.1   | 77.6   | 78.3   | 79.7   | 81.5   | 83.5   | 83.8   | 84.1   | 85.9   | 83.8   | 81.8  |     |     |     |     | 116.8 |
| NACT 4.98 CM/MS    | 2050   | 77.1   | 77.6   | 77.6   | 79.3   | 82.0   | 84.2   | 85.3   | 85.8   | 87.7   | 84.5   | 82.8  |     |     |     |     | 117.7 |
| (.00498 KG/MS)     | 2500   | 74.7   | 75.9   | 75.3   | 77.5   | 73.5   | 80.7   | 80.3   | 79.8   | 80.9   | 79.5   | 79.3  |     |     |     |     | 113.3 |
| NFA 7799. RPM      | 3150   | 74.6   | 74.9   | 75.6   | 78.3   | 80.5   | 83.0   | 82.3   | 83.5   | 84.4   | 86.5   | 78.8  |     |     |     |     | 113.3 |
| (.017. KAT/SEC)    | 4050   | 74.8   | 76.4   | 77.0   | 80.1   | 83.5   | 85.9   | 85.7   | 84.5   | 90.8   | 86.2   | 82.0  |     |     |     |     | 119.6 |
| NFK 7030. RPM      | 5000   | 74.3   | 75.1   | 76.2   | 79.0   | 81.7   | 85.9   | 85.9   | 86.9   | 91.0   | 85.4   | 80.9  |     |     |     |     | 119.6 |
| (.030. KAT/SEC)    | 6300   | 75.1   | 75.9   | 76.7   | 80.4   | 83.3   | 86.9   | 87.9   | 91.7   | 92.8   | 86.6   | 82.5  |     |     |     |     | 121.8 |
| NFB 6023. RPM      | 8000   | 73.5   | 75.4   | 75.7   | 78.9   | 81.8   | 85.3   | 87.2   | 89.7   | 90.4   | 83.0   | 79.6  |     |     |     |     | 119.8 |
| (.024. KAT/SEC)    | 10000  | 74.3   | 75.4   | 76.5   | 80.2   | 83.3   | 86.6   | 89.0   | 90.9   | 92.3   | 85.6   | 80.8  |     |     |     |     | 121.5 |
| NO. OF BLADES 15   | 12500  | 75.3   | 75.9   | 76.6   | 80.8   | 84.0   | 86.8   | 90.3   | 91.8   | 92.5   | 86.5   | 81.5  |     |     |     |     | 122.3 |
| FAN TIP SPEED      | 16000  | 72.4   | 75.6   | 75.8   | 78.5   | 82.0   | 85.5   | 87.6   | 89.8   | 89.6   | 83.5   | 79.9  |     |     |     |     | 120.4 |
| 681. FT/SEC        | 20000  | 74.1   | 74.2   | 76.2   | 79.9   | 83.8   | 87.1   | 89.1   | 91.9   | 92.2   | 85.0   | 81.2  |     |     |     |     | 122.8 |
| 25930              | 25930  | 75.2   | 75.6   | 76.9   | 81.9   | 84.4   | 86.7   | 89.5   | 92.0   | 92.5   | 86.6   | 81.4  |     |     |     |     | 123.7 |
| 31500              | 31500  | 74.6   | 74.8   | 76.7   | 81.1   | 85.0   | 87.4   | 88.2   | 90.0   | 90.6   | 84.9   | 79.1  |     |     |     |     | 123.3 |
| 40830              | 40830  | 74.4   | 75.5   | 75.4   | 78.7   | 82.0   | 84.3   | 86.2   | 87.3   | 87.9   | 82.6   | 74.9  |     |     |     |     | 123.1 |
| 50000              | 50000  | 76.9   | 73.4   | 75.7   | 76.5   | 78.3   | 80.7   | 82.9   | 82.5   | 83.1   | 78.0   | 72.0  |     |     |     |     | 120.2 |
| 63800              | 63800  | 79.8   | 74.6   | 77.7   | 75.3   | 76.1   | 77.7   | 78.0   | 77.2   | 78.1   | 75.0   | 73.2  |     |     |     |     | 120.6 |
| 80000              | 80000  | 82.5   | 77.3   | 80.4   | 77.3   | 77.9   | 78.9   | 78.5   | 77.5   | 76.7   | 76.6   | 75.7  |     |     |     |     | 120.8 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |       |
| OVERALL CALCULATED |        | 93.4   | 92.2   | 92.4   | 93.9   | 96.3   | 98.7   | 100.2  | 102.4  | 103.0  | 99.3   | 96.9  |     |     |     |     | 124.7 |
| PNCP               |        | 102.2  | 102.4  | 102.5  | 104.7  | 107.2  | 109.5  | 110.1  | 112.0  | 113.7  | 110.4  | 108.3 |     |     |     |     |       |

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ORIGINAL PAGE IS  
 OF POOR QUALITY





| FREQ.              | 02     | 71     | 81     | 91     | 101    | 111    | 124    | 133    | 143    | 150    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|-----|-----|
|                    | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0) | (0) | (0) |
| SIDELINE 200. FT.  | 100    | 45.2   | 51.0   | 54.2   | 53.3   | 52.7   | 49.0   | 44.1   | 43.5   | 47.0   | 40.3 |     |     |     |     |     |     |     |
| ( 40.06 MI)        | 100    | 45.1   | 47.3   | 49.4   | 51.0   | 48.1   | 45.1   | 47.5   | 47.7   | 46.2   | 44.0 |     |     |     |     |     |     |     |
| VEHICLE R-59       | 125    | 43.3   | 43.7   | 40.6   | 45.1   | 45.0   | 45.7   | 45.9   | 46.0   | 47.0   | 44.0 |     |     |     |     |     |     |     |
| CONFIG 10R         | 200    | 42.0   | 44.6   | 45.5   | 46.0   | 49.2   | 46.2   | 48.3   | 48.5   | 49.1   | 44.4 |     |     |     |     |     |     |     |
| LOC SCHEMECTADY    | 250    | 45.1   | 48.7   | 47.9   | 48.5   | 49.3   | 48.3   | 49.2   | 48.1   | 47.5   | 44.5 |     |     |     |     |     |     |     |
| DATE 12/10/74      | 315    | 47.5   | 48.4   | 49.1   | 49.9   | 49.8   | 49.0   | 48.4   | 48.2   | 47.3   | 43.3 |     |     |     |     |     |     |     |
| RUN 33/1           | 400    | 45.7   | 46.3   | 46.7   | 47.4   | 48.2   | 48.4   | 48.0   | 47.9   | 46.0   | 43.3 |     |     |     |     |     |     |     |
| TAPE               | 500    | 42.0   | 43.7   | 45.7   | 47.2   | 48.4   | 49.3   | 49.4   | 48.7   | 47.3   | 42.3 |     |     |     |     |     |     |     |
| BAR 20.0 HG        | 630    | 45.0   | 46.9   | 48.3   | 49.7   | 52.3   | 52.0   | 52.5   | 51.4   | 49.3   | 43.0 |     |     |     |     |     |     |     |
| ( 100023. N/M3)    | 800    | 47.1   | 48.0   | 49.7   | 53.0   | 54.7   | 55.0   | 54.4   | 53.0   | 51.6   | 44.7 |     |     |     |     |     |     |     |
| TAMB 45. DEG F     | 1000   | 45.2   | 46.0   | 50.6   | 53.2   | 54.0   | 57.7   | 50.7   | 50.3   | 50.0   | 40.1 |     |     |     |     |     |     |     |
| 1280. DEG K1       | 1250   | 47.3   | 57.2   | 60.5   | 64.0   | 67.4   | 69.9   | 69.1   | 65.8   | 62.4   | 50.0 |     |     |     |     |     |     |     |
| TDET 44. DEG F     | 1400   | 46.1   | 52.5   | 54.6   | 60.2   | 61.0   | 62.4   | 61.9   | 58.9   | 56.2   | 44.3 |     |     |     |     |     |     |     |
| 1270. DEG K1       | 1600   | 49.0   | 43.3   | 45.2   | 47.5   | 49.6   | 50.1   | 49.7   | 48.4   | 46.8   | 37.9 |     |     |     |     |     |     |     |
| MACH 5.37 C4/M3    | 2000   | 41.3   | 42.2   | 45.0   | 48.1   | 48.7   | 48.2   | 51.4   | 50.1   | 44.3   | 35.1 |     |     |     |     |     |     |     |
| ( 00507 C6/M3)     | 2500   | 39.2   | 41.1   | 43.0   | 46.6   | 48.4   | 48.3   | 49.0   | 51.0   | 47.5   | 34.7 |     |     |     |     |     |     |     |
| MFL 5400. RPM      | 3150   | 41.7   | 42.8   | 45.2   | 49.7   | 52.9   | 52.0   | 53.3   | 54.6   | 52.0   | 38.0 |     |     |     |     |     |     |     |
| ( 573. RAD/SEC)    | 4000   | 40.1   | 42.0   | 45.1   | 49.4   | 51.9   | 53.0   | 53.7   | 55.0   | 51.0   | 36.1 |     |     |     |     |     |     |     |
| MFR 5344. RPM      | 5000   | 39.2   | 42.0   | 44.8   | 48.1   | 51.2   | 52.0   | 54.1   | 54.7   | 50.5   | 30.0 |     |     |     |     |     |     |     |
| ( 500. RAD/SEC)    | 6300   | 36.6   | 39.4   | 42.0   | 45.4   | 49.7   | 51.4   | 51.0   | 51.0   | 44.0   | 31.4 |     |     |     |     |     |     |     |
| MFD 6023. RPM      | 8000   | 33.5   | 37.6   | 41.3   | 45.3   | 48.0   | 50.0   | 50.5   | 51.3   | 43.0   | 26.4 |     |     |     |     |     |     |     |
| ( 024. RAD/SEC)    | 10000  | 32.4   | 35.1   | 38.0   | 44.0   | 47.2   | 48.0   | 48.7   | 48.3   | 39.0   | 22.0 |     |     |     |     |     |     |     |
| NO. OF BLADES 15   | 12500  | 24.5   | 29.5   | 34.1   | 38.9   | 42.0   | 43.0   | 44.2   | 41.7   | 31.4   | 17.1 |     |     |     |     |     |     |     |
| FAH TIP SPEED      | 20000  | 13.3   | 16.0   | 23.7   | 34.7   | 38.3   | 38.1   | 37.0   | 36.7   | 24.2   |      |     |     |     |     |     |     |     |
| 477. FT/SEC        | 25000  | 8.9    | 8.2    | 14.0   | 18.5   | 20.0   | 19.0   | 18.0   | 18.3   |        |      |     |     |     |     |     |     |     |
|                    | 31500  |        |        |        | 1.3    | 2.0    | 1.1    |        |        |        |      |     |     |     |     |     |     |     |
|                    | 40000  |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |     |     |
| OVERALL CALCULATED |        | 67.3   | 61.5   | 64.0   | 68.0   | 69.7   | 71.3   | 71.1   | 68.0   | 66.0   | 50.0 |     |     |     |     |     |     |     |
| PHSD               |        | 67.1   | 71.3   | 74.1   | 70.6   | 70.0   | 81.3   | 81.2   | 70.7   | 70.4   | 60.0 |     |     |     |     |     |     |     |

ORIGINAL PAGE IS  
OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PRCC, DATE - MONTH 12 DAY 20 HR. 17.0

MODEL SOUND PRESSURE LEVELS 159. DEG. P. 70 PERCENT REL. MON. DAY

ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                    |       | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0.  | 0.   | 0.   | 0.   | 0.   | 0.   | PUL   |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|------|------|------|------|------|-------|
|                    | FREQ. | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 10. | 110. | 110. | 110. | 110. | 110. | 110.  |
|                    | 50    |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |      |       |
|                    | 63    |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |      |       |
|                    | 80    |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |      |       |
| RADIAL 17. FT.     | 100   | 76.0   | 74.1   | 71.7   | 71.4   | 70.4   | 71.0   | 70.7   | 73.5   | 70.1   | 70.0   |     |      |      |      |      |      | 100.2 |
| VEHICLE R=SS       | 125   | 78.4   | 71.4   | 70.2   | 73.1   | 70.4   | 71.1   | 73.2   | 75.2   | 70.6   | 70.0   |     |      |      |      |      |      | 107.0 |
| CONFIG 10R         | 160   | 69.1   | 69.1   | 69.7   | 69.6   | 69.9   | 71.0   | 72.0   | 75.5   | 70.1   | 70.0   |     |      |      |      |      |      | 107.4 |
| LOC SCHENECTADY    | 200   | 67.0   | 68.6   | 69.4   | 70.0   | 73.1   | 73.0   | 75.4   | 77.2   | 81.1   | 81.1   |     |      |      |      |      |      | 109.2 |
| DATE 12/18/74      | 250   | 71.0   | 72.4   | 73.1   | 73.0   | 74.6   | 75.1   | 76.1   | 76.7   | 70.1   | 70.0   |     |      |      |      |      |      | 109.3 |
| RUN 33/2           | 315   | 73.0   | 73.0   | 74.0   | 75.1   | 75.4   | 74.0   | 75.6   | 77.2   | 70.6   | 70.0   |     |      |      |      |      |      | 109.0 |
| TAPE               | 430   | 72.1   | 72.1   | 71.9   | 72.6   | 73.4   | 74.1   | 74.9   | 76.0   | 80.6   | 70.0   |     |      |      |      |      |      | 109.0 |
| BAR 29.6 MG        | 500   | 69.6   | 69.6   | 70.7   | 72.1   | 73.4   | 74.4   | 76.2   | 77.5   | 81.1   | 70.1   |     |      |      |      |      |      | 109.7 |
| (10923. N/M/21     | 630   | 71.4   | 72.0   | 73.4   | 74.7   | 76.0   | 76.0   | 76.7   | 79.7   | 82.0   | 70.1   |     |      |      |      |      |      | 111.9 |
| TAND 44. DEG F     | 800   | 73.6   | 75.1   | 74.4   | 77.1   | 78.9   | 80.1   | 80.1   | 81.8   | 81.3   | 70.0   |     |      |      |      |      |      | 112.5 |
| (200. DEG K)       | 1000  | 71.4   | 72.4   | 74.7   | 76.4   | 78.4   | 81.1   | 82.9   | 84.0   | 84.3   | 70.0   |     |      |      |      |      |      | 114.1 |
| T-CT 30. DEG F     | 1250  | 71.2   | 73.0   | 77.7   | 79.9   | 83.6   | 85.1   | 86.6   | 87.0   | 87.0   | 80.0   |     |      |      |      |      |      | 117.9 |
| (277. DEG K)       | 1600  | 74.0   | 80.0   | 80.0   | 90.2   | 92.0   | 93.0   | 92.6   | 89.2   | 90.0   | 81.1   |     |      |      |      |      |      | 120.0 |
| NACT 4.83 CM/MS    | 2000  | 69.0   | 70.4   | 72.6   | 75.0   | 77.0   | 78.6   | 78.0   | 78.5   | 70.4   | 74.6   |     |      |      |      |      |      | 120.4 |
| (1.00483 CM/MS)    | 2500  | 67.7   | 68.9   | 70.9   | 72.5   | 74.0   | 74.1   | 75.1   | 76.0   | 74.2   | 71.0   |     |      |      |      |      |      | 127.1 |
| NFA 8241. RPM      | 3150  | 67.7   | 69.4   | 71.1   | 74.0   | 76.0   | 77.0   | 79.1   | 82.5   | 81.2   | 74.0   |     |      |      |      |      |      | 123.6 |
| (833. RAD/SEC)     | 4000  | 60.0   | 60.0   | 72.9   | 76.5   | 79.5   | 80.0   | 81.8   | 84.7   | 82.4   | 76.6   |     |      |      |      |      |      | 123.5 |
| NFK 8333. RPM      | 5050  | 69.2   | 70.7   | 73.4   | 76.5   | 79.9   | 81.0   | 83.9   | 86.1   | 84.1   | 77.5   |     |      |      |      |      |      | 115.8 |
| (863. RAD/SEC)     | 6300  | 69.7   | 71.0   | 73.5   | 77.1   | 79.7   | 82.9   | 85.5   | 86.9   | 84.3   | 78.0   |     |      |      |      |      |      | 115.9 |
| NFD 8823. RPM      | 8000  | 67.9   | 69.5   | 72.5   | 75.3   | 78.3   | 81.7   | 84.0   | 85.0   | 81.2   | 75.0   |     |      |      |      |      |      | 114.3 |
| (924. RAD/SEC)     | 10000 | 68.0   | 70.1   | 73.1   | 76.4   | 80.4   | 82.5   | 84.7   | 86.0   | 83.3   | 77.1   |     |      |      |      |      |      | 115.0 |
| NO. OF BLADES 13   | 12500 | 60.5   | 69.9   | 73.4   | 78.3   | 79.0   | 83.4   | 85.6   | 87.3   | 82.0   | 77.3   |     |      |      |      |      |      | 116.5 |
| PAW TIP SPEED      | 14000 | 66.2   | 67.8   | 71.3   | 75.3   | 79.0   | 81.9   | 84.4   | 85.4   | 81.0   | 75.9   |     |      |      |      |      |      | 119.2 |
| 548. FT/SEC        | 20000 | 67.1   | 68.3   | 72.5   | 76.6   | 79.7   | 82.4   | 85.5   | 88.3   | 82.0   | 78.3   |     |      |      |      |      |      | 117.2 |
|                    | 25000 | 67.0   | 68.3   | 73.3   | 76.5   | 79.6   | 81.0   | 83.0   | 85.7   | 80.0   | 75.0   |     |      |      |      |      |      | 116.3 |
|                    | 31500 | 64.4   | 66.3   | 73.4   | 78.0   | 83.5   | 82.3   | 83.6   | 85.0   | 80.1   | 73.4   |     |      |      |      |      |      | 117.1 |
|                    | 40000 | 64.7   | 67.1   | 69.8   | 74.5   | 77.2   | 78.5   | 80.6   | 82.3   | 77.0   | 66.7   |     |      |      |      |      |      | 115.5 |
|                    | 50000 | 63.3   | 66.3   | 67.1   | 70.9   | 73.0   | 74.5   | 74.8   | 77.0   | 74.0   | 65.4   |     |      |      |      |      |      | 112.7 |
|                    | 63000 | 65.8   | 69.3   | 68.0   | 69.4   | 68.9   | 69.0   | 68.5   | 70.7   | 69.5   | 69.0   |     |      |      |      |      |      | 111.4 |
|                    | 80000 | 66.0   | 70.5   | 67.5   | 69.0   | 69.0   | 66.5   | 67.6   | 68.1   | 68.3   | 69.0   |     |      |      |      |      |      | 115.1 |
| OVERALL MEAS. AED  |       |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |      |       |
| OVERALL CALCULATED |       | 85.2   | 86.0   | 89.7   | 93.1   | 95.2   | 97.1   | 97.6   | 96.5   | 97.1   | 92.4   |     |      |      |      |      |      | 120.7 |
| PMDD               |       | 95.5   | 96.5   | 101.8  | 105.1  | 107.1  | 108.0  | 100.0  | 100.0  | 100.7  | 102.0  |     |      |      |      |      |      |       |

3-11-75 11:45 AM

MODEL SOUND PRESSURE LEVELS 159. DEC. F. 70 PERCENT REL. HUM. DAY1

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | FREQ. | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 124.   | 133.   | 145.   | 156.   | 0.  | 0.   | 0.   | 0.   | 0.   |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|------|------|------|------|
|                    |       | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0. | 1.0. | 1.0. | 1.0. | 1.0. |
| SIDELINE 200. FT.  | 50    |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
| ( 60.96 M)         | 63    |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
| VEHICLE R59        | 100   | 54.2   | 52.1   | 50.0   | 49.8   | 48.7   | 49.4   | 47.6   | 49.0   | 51.5   | 49.8   |     |      |      |      |      |
| CONFIG 1BR         | 125   | 47.6   | 49.2   | 48.4   | 51.5   | 48.6   | 48.8   | 50.0   | 50.7   | 51.9   | 49.4   |     |      |      |      |      |
| LOC SCHENECTADY    | 160   | 46.2   | 46.9   | 47.8   | 47.9   | 48.0   | 49.0   | 49.7   | 50.8   | 52.3   | 48.9   |     |      |      |      |      |
| DATE 12/10/74      | 200   | 44.6   | 46.3   | 47.5   | 49.1   | 51.2   | 51.2   | 52.1   | 52.5   | 54.1   | 50.4   |     |      |      |      |      |
| RUN 33/2           | 250   | 48.8   | 50.0   | 51.1   | 51.7   | 52.6   | 52.6   | 52.7   | 51.8   | 52.0   | 48.7   |     |      |      |      |      |
| TAPE               | 315   | 50.7   | 51.4   | 52.8   | 53.2   | 53.3   | 52.2   | 52.1   | 52.2   | 51.3   | 48.5   |     |      |      |      |      |
| BAR 29.6 HG        | 400   | 48.9   | 49.6   | 49.7   | 50.6   | 51.2   | 51.4   | 51.3   | 50.9   | 53.2   | 47.5   |     |      |      |      |      |
| (99923. N/M2)      | 500   | 46.3   | 47.0   | 48.4   | 50.0   | 51.1   | 51.5   | 52.4   | 52.2   | 53.5   | 46.9   |     |      |      |      |      |
| TAIL 44. DEG F     | 630   | 47.9   | 50.1   | 51.1   | 52.4   | 54.5   | 55.4   | 54.8   | 54.4   | 55.1   | 46.3   |     |      |      |      |      |
| (280. DEG K)       | 800   | 50.0   | 52.2   | 52.0   | 54.8   | 56.4   | 57.0   | 56.2   | 55.4   | 53.4   | 46.7   |     |      |      |      |      |
| THEY 39. DEG F     | 1000  | 47.6   | 49.3   | 52.1   | 53.9   | 56.8   | 57.9   | 58.8   | 58.3   | 56.2   | 46.4   |     |      |      |      |      |
| (277. DEG K)       | 1250  | 47.2   | 50.7   | 55.3   | 57.3   | 60.2   | 61.8   | 62.3   | 61.1   | 59.2   | 48.0   |     |      |      |      |      |
| MACT 4.83 GM/M3    | 1600  | 50.8   | 57.5   | 63.1   | 67.4   | 69.0   | 70.3   | 68.1   | 63.1   | 61.9   | 47.8   |     |      |      |      |      |
| (1.00483 KG/M3)    | 2000  | 44.6   | 46.8   | 49.5   | 52.0   | 53.9   | 54.9   | 53.9   | 52.1   | 50.3   | 40.9   |     |      |      |      |      |
| NFA 6241. RPM      | 2500  | 43.2   | 45.2   | 47.6   | 49.4   | 50.7   | 50.2   | 50.2   | 49.4   | 44.8   | 37.4   |     |      |      |      |      |
| ( 653. RAD/SEC)    | 3150  | 42.9   | 45.3   | 47.6   | 50.6   | 53.2   | 53.6   | 53.8   | 55.5   | 51.3   | 39.9   |     |      |      |      |      |
| NFK 6333. RPM      | 4000  | 43.6   | 45.3   | 48.9   | 52.7   | 55.5   | 55.3   | 56.0   | 57.1   | 51.8   | 40.0   |     |      |      |      |      |
| ( 663. RAD/SEC)    | 5000  | 43.6   | 46.0   | 49.1   | 52.4   | 55.7   | 57.0   | 57.9   | 60.2   | 53.1   | 40.8   |     |      |      |      |      |
| NFD 8823. RPM      | 6300  | 43.4   | 45.5   | 48.6   | 52.3   | 54.7   | 57.3   | 58.6   | 58.0   | 52.0   | 39.6   |     |      |      |      |      |
| ( 924. RAD/SEC)    | 8000  | 40.3   | 42.9   | 46.5   | 49.5   | 53.3   | 54.9   | 55.8   | 54.6   | 47.0   | 34.4   |     |      |      |      |      |
| NO. OF BLADES 15   | 10000 | 38.7   | 41.9   | 45.5   | 49.0   | 52.8   | 54.1   | 54.8   | 54.4   | 46.4   | 31.9   |     |      |      |      |      |
| FAN TIP SPEED      | 12500 | 38.6   | 39.4   | 43.6   | 48.8   | 50.0   | 52.6   | 53.0   | 51.7   | 42.1   | 26.4   |     |      |      |      |      |
| 545. FT/SEC        | 16000 | 30.2   | 33.3   | 37.9   | 42.1   | 45.5   | 47.3   | 47.5   | 44.7   | 33.7   | 18.1   |     |      |      |      |      |
|                    | 20000 | 25.7   | 28.9   | 34.3   | 38.8   | 41.4   | 42.6   | 43.0   | 41.0   | 26.3   | 3.5    |     |      |      |      |      |
|                    | 25000 | 17.6   | 21.7   | 28.2   | 31.9   | 34.3   | 34.7   | 33.2   | 28.8   | 12.9   |        |     |      |      |      |      |
|                    | 31500 | 5.8    | 11.2   | 18.3   | 23.5   | 25.1   | 24.5   | 21.1   | 14.3   |        |        |     |      |      |      |      |
|                    | 40000 |        |        |        | 5.2    | 6.8    | 4.8    | 0.5    |        |        |        |     |      |      |      |      |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
| OVERALL CALCULATED |       | 61.0   | 63.1   | 66.2   | 69.5   | 71.3   | 72.5   | 71.8   | 69.7   | 67.6   | 59.7   |     |      |      |      |      |
| PNDB               |       | 70.7   | 74.6   | 78.5   | 82.0   | 83.8   | 84.9   | 83.9   | 82.0   | 79.3   | 68.2   |     |      |      |      |      |





| FREQ.              | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0.   | 0. | 0. | 0. | 0. | 0.  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|-----|
|                    | (1.08) | (1.24) | (1.41) | (1.59) | (1.78) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 0. | 0. | 0. | 0. | 0.) |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| ( 60.98 M)         | 63     |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| VEHICLE R-95       | 100    | 49.4   | 50.6   | 49.5   | 49.5   | 50.2   | 49.2   | 48.6   | 52.0   | 53.8   | 54.3 |    |    |    |    |     |
| CONFIG 10R         | 125    | 59.6   | 57.0   | 55.1   | 53.7   | 52.1   | 51.0   | 53.5   | 54.2   | 53.7   | 53.1 |    |    |    |    |     |
| LCC SCHEMECTAD     | 160    | 49.7   | 50.2   | 51.1   | 51.6   | 51.3   | 52.7   | 53.2   | 54.0   | 55.0   | 53.0 |    |    |    |    |     |
| DATE 12/10/74      | 200    | 47.6   | 49.3   | 50.5   | 52.6   | 54.0   | 54.4   | 55.1   | 55.2   | 56.1   | 54.2 |    |    |    |    |     |
| RUN 33/3           | 250    | 51.8   | 54.3   | 54.4   | 55.0   | 55.0   | 56.1   | 55.7   | 55.8   | 55.2   | 52.7 |    |    |    |    |     |
| TAPE               | 315    | 54.0   | 54.9   | 55.1   | 56.2   | 56.5   | 55.5   | 55.1   | 55.7   | 54.6   | 51.0 |    |    |    |    |     |
| BAR 20.6 HG        | 400    | 52.1   | 52.3   | 53.0   | 53.6   | 54.7   | 54.4   | 54.9   | 54.6   | 54.2   | 50.0 |    |    |    |    |     |
| 199923. N/M2)      | 500    | 47.3   | 50.5   | 52.2   | 53.0   | 54.4   | 54.5   | 55.4   | 55.2   | 54.3   | 50.0 |    |    |    |    |     |
| TAMB 44. DEG F     | 630    | 50.7   | 52.1   | 53.8   | 55.2   | 57.0   | 58.4   | 58.0   | 57.4   | 55.1   | 49.5 |    |    |    |    |     |
| 1280. DEG K)       | 800    | 52.3   | 54.0   | 54.5   | 56.8   | 58.2   | 58.3   | 57.9   | 55.4   | 49.5   |      |    |    |    |    |     |
| T-ET 39. DEG F     | 1000   | 50.1   | 51.6   | 54.3   | 56.4   | 58.8   | 59.7   | 60.3   | 59.5   | 58.7   | 48.0 |    |    |    |    |     |
| 1277. DEG K)       | 1250   | 49.3   | 53.0   | 56.3   | 58.3   | 59.9   | 61.0   | 61.8   | 61.3   | 58.9   | 49.5 |    |    |    |    |     |
| MACT 4.83 GM/M3    | 1600   | 54.3   | 57.5   | 62.1   | 65.7   | 65.3   | 69.1   | 67.4   | 66.6   | 64.7   | 51.0 |    |    |    |    |     |
| 1-00483 KG/M3)     | 2000   | 50.9   | 54.3   | 59.0   | 57.0   | 61.4   | 63.9   | 64.7   | 63.6   | 60.8   | 49.1 |    |    |    |    |     |
| NFA 7015. RPM      | 2500   | 46.5   | 48.2   | 51.6   | 53.1   | 54.4   | 53.9   | 52.2   | 51.9   | 47.8   | 41.4 |    |    |    |    |     |
| ( 734. RAD/SEC)    | 3150   | 46.4   | 48.8   | 51.6   | 54.1   | 56.7   | 58.6   | 57.1   | 57.5   | 50.6   | 42.2 |    |    |    |    |     |
| NPK 7119. RPM      | 4000   | 46.6   | 49.3   | 53.2   | 56.7   | 58.7   | 58.6   | 59.3   | 60.1   | 54.3   | 43.3 |    |    |    |    |     |
| ( 745. RAD/SEC)    | 5000   | 46.3   | 48.5   | 52.4   | 55.4   | 58.9   | 60.5   | 60.9   | 62.7   | 55.1   | 43.3 |    |    |    |    |     |
| NFD 8023. RPM      | 6300   | 46.1   | 48.5   | 52.1   | 55.1   | 58.4   | 59.5   | 61.6   | 61.5   | 53.8   | 41.3 |    |    |    |    |     |
| ( 924. RAD/SEC)    | 8000   | 43.8   | 46.4   | 50.2   | 53.2   | 56.8   | 59.2   | 59.8   | 58.3   | 49.3   | 37.1 |    |    |    |    |     |
| NO. OF BLADES 15   | 10000  | 41.7   | 44.9   | 50.0   | 53.0   | 56.3   | 57.8   | 59.3   | 57.9   | 48.1   | 34.1 |    |    |    |    |     |
| FAN TIP SPEED      | 12500  | 39.4   | 42.7   | 48.1   | 52.5   | 54.5   | 56.1   | 57.0   | 55.0   | 44.8   | 28.9 |    |    |    |    |     |
| 612. FT/SEC        | 16000  | 33.0   | 36.7   | 41.7   | 45.9   | 49.0   | 50.5   | 51.0   | 48.7   | 35.7   | 18.1 |    |    |    |    |     |
| 25000              | 20000  | 28.2   | 32.2   | 38.5   | 42.5   | 45.1   | 46.3   | 46.0   | 43.5   | 28.8   | 6.0  |    |    |    |    |     |
| 31500              | 25000  | 20.3   | 25.2   | 32.0   | 36.4   | 38.6   | 38.7   | 37.7   | 32.8   | 16.4   |      |    |    |    |    |     |
| 40000              | 31500  | 8.3    | 14.7   | 22.5   | 27.0   | 28.6   | 27.7   | 25.6   | 17.8   |        |      |    |    |    |    |     |
| 50000              | 40000  |        |        | 4.2    | 9.2    | 10.8   | 9.3    | 4.5    |        |        |      |    |    |    |    |     |
| 63000              | 50000  |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| 80000              | 63000  |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| OVERALL CALCULATED | 64.0   | 65.7   | 68.1   | 68.8   | 71.9   | 73.6   | 73.3   | 72.9   | 69.8   | 63.4   |      |    |    |    |    |     |
| PNDB               | 74.1   | 76.6   | 80.1   | 80.9   | 83.8   | 86.0   | 85.4   | 85.1   | 81.8   | 71.0   |      |    |    |    |    |     |

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|                    | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIANS) |              |              |              |               |               |               |               |               |               |          |          |          |          |          |          | PNL   |
|--------------------|-------|--|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|----------|----------|----------|----------|----------|----------|-------|
|                    |       | 62<br>(1.08)                               | 71<br>(1.24) | 81<br>(1.41) | 91<br>(1.58) | 101<br>(1.76) | 111<br>(1.94) | 124<br>(2.13) | 133<br>(2.32) | 145<br>(2.52) | 156<br>(2.73) | 0<br>(0) | 0<br>(0) | 0<br>(0) | 0<br>(0) | 0<br>(0) | 0<br>(0) |       |
|                    | 50    |  |              |              |              |               |               |               |               |               |               |          |          |          |          |          |          |       |
|                    | 63    |  |              |              |              |               |               |               |               |               |               |          |          |          |          |          |          |       |
| RADIAL 17. FT.     | 80    |  |              |              |              |               |               |               |               |               |               |          |          |          |          |          |          |       |
| ( 5. MI)           | 100   | 71.6                                       | 73.1         | 73.2         | 73.9         | 74.9          | 74.4          | 74.9          | 79.0          | 84.3          | 87.6          |          |          |          |          |          |          | 112.8 |
| VEHICLE R=55       | 125   | 75.6                                       | 75.9         | 75.4         | 77.4         | 77.4          | 78.4          | 79.4          | 82.0          | 84.8          | 87.1          |          |          |          |          |          |          | 116.2 |
| CONFIG 16R         | 160   | 75.4                                       | 75.1         | 75.4         | 76.1         | 76.2          | 77.9          | 79.9          | 82.5          | 85.6          | 87.6          |          |          |          |          |          |          | 114.4 |
| LDC SCHEMECTADY    | 200   | 73.4                                       | 73.9         | 74.9         | 77.4         | 79.9          | 79.9          | 81.1          | 83.5          | 86.3          | 88.8          |          |          |          |          |          |          | 115.5 |
| DATE 12/10/74      | 250   | 78.9                                       | 80.4         | 81.4         | 82.1         | 83.1          | 83.6          | 84.9          | 85.5          | 87.8          | 88.3          |          |          |          |          |          |          | 117.9 |
| RPM 33/4           | 315   | 72.6                                       | 80.1         | 80.4         | 80.9         | 81.7          | 81.3          | 82.4          | 83.5          | 85.8          | 87.1          |          |          |          |          |          |          | 116.3 |
| TAPE               | 400   | 77.9                                       | 78.1         | 78.4         | 78.4         | 79.7          | 80.4          | 81.4          | 83.2          | 85.1          | 86.3          |          |          |          |          |          |          | 115.2 |
| BAR 29.6 HG        | 500   | 75.6                                       | 75.6         | 76.7         | 77.5         | 79.9          | 81.1          | 82.4          | 83.5          | 85.1          | 85.1          |          |          |          |          |          |          | 114.9 |
| (93923. 4/M2)      | 630   | 76.4                                       | 77.4         | 78.9         | 80.2         | 82.4          | 83.4          | 84.2          | 85.2          | 85.8          | 85.4          |          |          |          |          |          |          | 116.5 |
| TAMB 44. DEG F     | 800   | 78.4                                       | 79.1         | 79.9         | 81.4         | 83.2          | 84.1          | 84.9          | 85.3          | 85.8          | 84.9          |          |          |          |          |          |          | 117.1 |
| (260. DEG K)       | 1000  | 76.1                                       | 76.4         | 79.2         | 81.4         | 83.4          | 84.1          | 85.8          | 87.0          | 85.8          | 83.1          |          |          |          |          |          |          | 117.2 |
| THET 39. DEG F     | 1250  | 75.9                                       | 77.6         | 80.5         | 82.4         | 84.2          | 85.8          | 86.4          | 88.0          | 87.6          | 83.6          |          |          |          |          |          |          | 118.4 |
| (277. DEG K)       | 1600  | 77.4                                       | 79.4         | 80.5         | 83.0         | 86.5          | 87.6          | 86.1          | 88.0          | 88.6          | 82.9          |          |          |          |          |          |          | 119.2 |
| MACT 4.63 CM/M3    | 2000  | 76.0                                       | 80.1         | 84.3         | 88.2         | 91.8          | 92.6          | 89.9          | 91.0          | 90.4          | 86.4          |          |          |          |          |          |          | 123.1 |
| (00483 KG/M3)      | 2500  | 73.7                                       | 74.6         | 77.9         | 79.8         | 81.0          | 81.1          | 80.4          | 81.2          | 80.7          | 78.8          |          |          |          |          |          |          | 113.5 |
| NFA 7799. RPM      | 3150  | 73.5                                       | 75.4         | 77.9         | 80.0         | 83.0          | 83.0          | 84.1          | 85.0          | 81.4          | 78.6          |          |          |          |          |          |          | 115.5 |
| ( 817. RAD/SEC)    | 4000  | 75.7                                       | 77.8         | 81.4         | 84.5         | 86.7          | 87.2          | 89.8          | 91.4          | 87.1          | 82.8          |          |          |          |          |          |          | 120.6 |
| MFK 7914. RPM      | 5000  | 74.4                                       | 75.0         | 79.1         | 82.0         | 85.7          | 86.7          | 89.7          | 91.6          | 86.8          | 81.5          |          |          |          |          |          |          | 120.2 |
| ( 829. RAD/SEC)    | 6300  | 75.2                                       | 78.7         | 81.2         | 83.1         | 87.4          | 88.4          | 93.0          | 93.4          | 88.5          | 82.5          |          |          |          |          |          |          | 122.4 |
| NFD 8823. RPM      | 8000  | 73.9                                       | 75.3         | 79.5         | 81.8         | 85.8          | 88.2          | 90.7          | 91.5          | 85.5          | 80.4          |          |          |          |          |          |          | 120.7 |
| ( 924. RAD/SEC)    | 10000 | 74.0                                       | 76.3         | 80.8         | 84.1         | 86.7          | 90.0          | 91.7          | 93.4          | 87.0          | 81.8          |          |          |          |          |          |          | 122.3 |
| NO. OF BLADES 15   | 12500 | 74.0                                       | 76.4         | 81.1         | 84.8         | 87.9          | 90.9          | 92.8          | 93.8          | 87.6          | 82.8          |          |          |          |          |          |          | 123.3 |
| PAN TIP SPEED      | 15000 | 72.2                                       | 74.1         | 78.8         | 82.5         | 86.3          | 88.9          | 91.1          | 91.6          | 85.5          | 80.8          |          |          |          |          |          |          | 121.7 |
| 681. FT/SEC        | 20000 | 72.6                                       | 75.3         | 80.3         | 84.1         | 87.5          | 89.9          | 92.8          | 93.6          | 87.3          | 81.8          |          |          |          |          |          |          | 123.7 |
|                    | 25000 | 72.7                                       | 75.5         | 80.8         | 84.7         | 87.8          | 90.6          | 93.1          | 94.2          | 87.8          | 82.3          |          |          |          |          |          |          | 124.8 |
|                    | 31500 | 72.4                                       | 76.1         | 81.2         | 85.0         | 88.0          | 89.3          | 90.8          | 92.0          | 86.4          | 79.7          |          |          |          |          |          |          | 124.2 |
|                    | 40000 | 73.2                                       | 73.3         | 78.1         | 82.3         | 85.0          | 86.5          | 87.9          | 89.1          | 83.8          | 75.0          |          |          |          |          |          |          | 122.7 |
|                    | 50000 | 67.3                                       | 71.8         | 73.6         | 77.7         | 80.0          | 82.7          | 83.1          | 84.0          | 80.0          | 70.1          |          |          |          |          |          |          | 120.0 |
|                    | 63000 | 66.0                                       | 70.8         | 68.2         | 72.9         | 73.6          | 75.6          | 75.3          | 76.2          | 73.0          | 68.0          |          |          |          |          |          |          | 115.8 |
|                    | 80000 | 69.0                                       | 71.3         | 67.7         | 70.0         | 69.3          | 69.5          | 68.6          | 70.1          | 68.8          | 66.1          |          |          |          |          |          |          | 115.9 |
| OVERALL MEASURED   |       |  |              |              |              |               |               |               |               |               |               |          |          |          |          |          |          | 124.8 |
| OVERALL CALCULATED |       | 89.9                                       | 91.4         | 94.1         | 96.9         | 99.7          | 101.4         | 103.0         | 104.1         | 100.9         | 98.9          |          |          |          |          |          |          |       |
| PNDB               |       | 101.0                                      | 102.9        | 105.5        | 108.2        | 111.2         | 112.1         | 113.4         | 114.4         | 111.9         | 108.9         |          |          |          |          |          |          |       |

MODEL SOUND PRESSURE LEVELS 159, DEG. F., 70 PERCENT REL. HUM., DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | FREQ. | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 124.   | 133.   | 145.   | 156.   | 0.  | 0. | 0. | 0. | 0. | 0.  |
|---------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|----|----|----|----|-----|
|                     |       | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0. | 0. | 0. | 0. | 0. | 0.) |
| SIDELINE 200. FT.   | 80    |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| ( 63.96 M)          | 100   | 48.9   | 51.1   | 51.5   | 52.3   | 53.2   | 52.2   | 51.8   | 54.5   | 57.8   | 57.5   |     |    |    |    |    |     |
| VEHICLE R=55        | 125   | 53.8   | 53.7   | 53.6   | 55.7   | 55.6   | 56.1   | 56.3   | 57.4   | 58.2   | 58.9   |     |    |    |    |    |     |
| CONFIG 10R          | 160   | 52.5   | 52.9   | 53.6   | 54.4   | 54.3   | 55.5   | 56.7   | 57.8   | 58.8   | 57.1   |     |    |    |    |    |     |
| LOC SCHENECTADY     | 200   | 53.4   | 51.6   | 53.0   | 55.6   | 57.9   | 57.4   | 57.8   | 58.7   | 59.4   | 58.2   |     |    |    |    |    |     |
| DATE 12/10/74       | 250   | 55.8   | 58.0   | 59.4   | 60.2   | 61.1   | 61.1   | 61.5   | 60.6   | 60.7   | 57.5   |     |    |    |    |    |     |
| RUN 33/4            | 315   | 55.5   | 57.6   | 58.3   | 58.9   | 59.5   | 58.7   | 58.9   | 58.5   | 58.6   | 58.0   |     |    |    |    |    |     |
| TAPE                | 430   | 54.6   | 55.6   | 56.2   | 56.3   | 57.4   | 57.6   | 57.6   | 58.1   | 57.7   | 59.0   |     |    |    |    |    |     |
| BAR 29.6 HG         | 550   | 52.3   | 53.0   | 54.4   | 55.5   | 57.6   | 58.3   | 58.7   | 58.2   | 57.5   | 53.9   |     |    |    |    |    |     |
| (99923. N/M2)       | 630   | 52.9   | 54.6   | 56.6   | 57.9   | 60.0   | 60.4   | 60.3   | 59.9   | 58.1   | 53.9   |     |    |    |    |    |     |
| TAMB 44. DEG F      | 800   | 54.8   | 56.2   | 57.5   | 59.0   | 60.7   | 61.0   | 60.9   | 59.9   | 57.9   | 52.7   |     |    |    |    |    |     |
| (280. DEG K)        | 1000  | 52.4   | 53.3   | 56.6   | 58.9   | 60.8   | 60.9   | 61.5   | 61.3   | 57.7   | 50.6   |     |    |    |    |    |     |
| TNEY 39. DEG F      | 1250  | 52.0   | 54.5   | 57.8   | 59.8   | 61.4   | 62.5   | 62.1   | 62.1   | 59.2   | 50.8   |     |    |    |    |    |     |
| (277. DEG K)        | 1630  | 53.3   | 56.0   | 57.6   | 60.2   | 63.5   | 64.1   | 61.6   | 61.9   | 59.9   | 49.6   |     |    |    |    |    |     |
| MACT 4.83 CM/M3     | 2050  | 51.6   | 56.6   | 61.2   | 65.3   | 68.6   | 66.9   | 65.2   | 64.6   | 61.3   | 52.6   |     |    |    |    |    |     |
| (1.06483 KG/M3)     | 2500  | 49.2   | 50.9   | 54.6   | 56.6   | 57.7   | 57.2   | 55.4   | 54.6   | 51.3   | 44.7   |     |    |    |    |    |     |
| NFA 7799. RPM       | 3150  | 48.7   | 51.3   | 54.3   | 56.6   | 59.4   | 58.8   | 58.8   | 58.0   | 51.6   | 43.7   |     |    |    |    |    |     |
| ( 817. RAD/SEC)     | 4000  | 50.4   | 53.3   | 57.4   | 60.7   | 62.7   | 62.6   | 64.0   | 63.8   | 56.5   | 46.8   |     |    |    |    |    |     |
| NPK 7914. RPM       | 5000  | 48.8   | 51.3   | 54.9   | 57.9   | 61.4   | 61.8   | 63.7   | 63.7   | 55.8   | 44.8   |     |    |    |    |    |     |
| ( 829. RAD/SEC)     | 6300  | 48.9   | 51.3   | 56.3   | 58.3   | 62.4   | 62.8   | 66.1   | 64.5   | 56.3   | 44.1   |     |    |    |    |    |     |
| NPD 8823. RPM       | 8000  | 48.3   | 48.7   | 53.5   | 56.0   | 59.8   | 61.4   | 62.6   | 61.1   | 51.3   | 39.1   |     |    |    |    |    |     |
| ( 924. RAD/SEC)     | 10000 | 44.7   | 48.1   | 53.3   | 56.8   | 59.1   | 61.6   | 61.8   | 60.9   | 50.1   | 38.6   |     |    |    |    |    |     |
| NO. OF BLADES 15    | 12500 | 42.1   | 45.9   | 51.4   | 55.3   | 58.0   | 60.1   | 60.3   | 58.2   | 46.8   | 31.9   |     |    |    |    |    |     |
| FAN TIP SPEED 16000 |       | 36.2   | 39.7   | 45.4   | 49.4   | 52.8   | 54.3   | 54.3   | 51.0   | 38.2   | 20.4   |     |    |    |    |    |     |
| 681. FT/SEC         | 20000 | 31.2   | 35.9   | 42.0   | 46.3   | 49.1   | 50.1   | 50.2   | 46.2   | 31.5   | 9.0    |     |    |    |    |    |     |
|                     | 25000 | 23.5   | 29.0   | 35.7   | 40.1   | 42.6   | 43.4   | 42.4   | 37.3   | 19.0   |        |     |    |    |    |    |     |
|                     | 31500 | 11.8   | 18.9   | 26.0   | 30.5   | 32.6   | 31.5   | 28.3   | 21.3   | 0.8    |        |     |    |    |    |    |     |
|                     | 40000 |        | 0.5    | 7.9    | 13.0   | 14.6   | 12.8   | 7.7    |        |        |        |     |    |    |    |    |     |
|                     | 50000 |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
|                     | 63000 |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
|                     | 80000 |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| OVERALL CALCULATED  |       | 65.5   | 67.4   | 69.6   | 72.1   | 74.5   | 74.9   | 74.6   | 74.2   | 71.1   | 66.8   |     |    |    |    |    |     |
| PNDB                |       | 75.9   | 78.5   | 82.0   | 85.0   | 87.7   | 88.0   | 87.4   | 87.8   | 82.4   | 74.8   |     |    |    |    |    |     |

|                           | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIANS) |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
|---------------------------|-------|--|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------|--------|--------|--------|--------|--------|
|                           |       | 62. (1.08)                                 | 71. (1.24) | 81. (1.41) | 91. (1.58) | 101. (1.76) | 111. (1.94) | 121. (2.13) | 133. (2.32) | 145. (2.52) | 156. (2.73) | 0. (0) | 0. (0) | 0. (0) | 0. (0) | 0. (0) | 0. (0) |
| RADIAL 17. FT.<br>( 5. M) | 50    |  |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
|                           | 63    |  |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
|                           | 80    |  |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
| VEHICLE R-55              | 100   | 71.4                                       | 72.4       | 72.4       | 73.6       | 74.9        | 74.4        | 74.9        | 79.0        | 83.8        | 87.1        |        |        |        |        |        | 112.4  |
| CGNFIC 16R                | 125   | 77.1                                       | 75.8       | 75.7       | 77.4       | 77.9        | 78.4        | 79.9        | 81.5        | 83.8        | 87.4        |        |        |        |        |        | 114.1  |
| LCC SCHENECTADY           | 150   | 75.9                                       | 75.6       | 75.9       | 78.1       | 78.4        | 78.4        | 79.9        | 82.7        | 85.1        | 87.9        |        |        |        |        |        | 114.5  |
| DATE 12/10/74             | 200   | 73.4                                       | 73.9       | 75.2       | 77.4       | 79.4        | 80.1        | 81.6        | 83.7        | 86.8        | 88.3        |        |        |        |        |        | 115.8  |
| RUN 33/5                  | 250   | 73.4                                       | 81.4       | 81.9       | 82.9       | 83.9        | 84.1        | 85.6        | 86.5        | 88.3        | 88.8        |        |        |        |        |        | 116.8  |
| TAPE                      | 315   | 79.6                                       | 79.4       | 80.4       | 80.9       | 81.7        | 81.6        | 82.1        | 84.0        | 86.1        | 87.1        |        |        |        |        |        | 116.4  |
| BAR 20.6 HG               | 400   | 78.4                                       | 78.4       | 78.9       | 79.4       | 79.9        | 80.6        | 81.4        | 83.7        | 85.1        | 86.3        |        |        |        |        |        | 115.4  |
| 199923. N/M21             | 500   | 75.4                                       | 76.1       | 76.9       | 77.9       | 80.2        | 81.4        | 82.2        | 84.0        | 84.8        | 85.4        |        |        |        |        |        | 115.1  |
| TAMB 44. DEG F            | 630   | 76.1                                       | 77.6       | 78.7       | 80.2       | 82.2        | 83.6        | 84.2        | 85.0        | 85.8        | 85.1        |        |        |        |        |        | 116.4  |
| 1280. DEG K1              | 800   | 77.9                                       | 78.9       | 79.7       | 80.9       | 83.2        | 84.1        | 84.9        | 85.5        | 86.1        | 84.6        |        |        |        |        |        | 117.0  |
| TNET 39. DEG F            | 1000  | 76.4                                       | 76.9       | 78.7       | 81.1       | 83.2        | 84.8        | 85.9        | 86.5        | 85.8        | 83.9        |        |        |        |        |        | 117.3  |
| 1277. DEG K1              | 1250  | 75.9                                       | 77.6       | 80.7       | 82.4       | 84.0        | 85.8        | 86.6        | 86.2        | 86.9        | 83.9        |        |        |        |        |        | 118.6  |
| MACT 4.83 CM/H3           | 1600  | 77.4                                       | 78.6       | 80.3       | 83.0       | 86.5        | 86.3        | 86.6        | 88.2        | 88.6        | 82.9        |        |        |        |        |        | 119.4  |
| 100483 KG/H3              | 2000  | 76.7                                       | 80.4       | 84.8       | 88.0       | 91.8        | 92.8        | 89.6        | 90.5        | 90.6        | 85.9        |        |        |        |        |        | 123.1  |
| NFA 7798. RPM             | 2500  | 73.7                                       | 74.9       | 77.9       | 79.8       | 80.5        | 80.3        | 80.6        | 81.5        | 80.4        | 79.3        |        |        |        |        |        | 113.3  |
| ( 816. RAD/SEC)           | 3150  | 73.7                                       | 75.6       | 77.9       | 80.3       | 82.5        | 82.5        | 83.8        | 85.0        | 81.7        | 78.8        |        |        |        |        |        | 115.4  |
| NFK 7913. RPM             | 4000  | 76.2                                       | 78.3       | 81.4       | 84.0       | 86.0        | 87.5        | 88.8        | 91.4        | 87.9        | 82.5        |        |        |        |        |        | 120.4  |
| ( 829. RAD/SEC)           | 5000  | 74.4                                       | 76.2       | 78.6       | 82.2       | 85.7        | 87.4        | 89.2        | 91.9        | 87.1        | 81.5        |        |        |        |        |        | 120.3  |
| NFD 8823. RPM             | 6300  | 75.0                                       | 77.2       | 81.0       | 83.4       | 86.9        | 88.9        | 92.5        | 93.9        | 88.8        | 82.8        |        |        |        |        |        | 122.4  |
| ( 924. RAD/SEC)           | 8000  | 73.9                                       | 75.8       | 78.7       | 82.5       | 85.6        | 88.5        | 90.7        | 91.3        | 85.2        | 80.4        |        |        |        |        |        | 120.6  |
| NO. OF BLADES 15          | 10000 | 74.0                                       | 76.3       | 80.1       | 84.1       | 86.9        | 89.7        | 92.0        | 92.9        | 87.3        | 81.3        |        |        |        |        |        | 122.2  |
| FAN TIP SPEED             | 12500 | 74.2                                       | 76.4       | 80.9       | 84.8       | 87.1        | 91.1        | 92.3        | 93.8        | 87.6        | 82.3        |        |        |        |        |        | 123.2  |
| 881. FT/SEC               | 16000 | 72.2                                       | 74.8       | 78.6       | 83.0       | 85.8        | 88.4        | 91.4        | 91.9        | 85.7        | 80.8        |        |        |        |        |        | 121.8  |
|                           | 20000 | 72.9                                       | 76.3       | 80.3       | 84.1       | 87.2        | 90.1        | 92.8        | 93.8        | 87.5        | 81.8        |        |        |        |        |        | 123.8  |
|                           | 25000 | 73.2                                       | 76.5       | 80.8       | 85.0       | 87.3        | 90.8        | 93.1        | 93.9        | 88.1        | 81.8        |        |        |        |        |        | 124.8  |
|                           | 31500 | 72.6                                       | 76.1       | 80.7       | 85.3       | 87.8        | 89.8        | 91.6        | 92.3        | 86.6        | 79.4        |        |        |        |        |        | 124.6  |
|                           | 40000 | 70.4                                       | 73.8       | 78.1       | 82.0       | 84.7        | 87.0        | 88.1        | 89.1        | 84.3        | 74.7        |        |        |        |        |        | 122.8  |
|                           | 50000 | 67.3                                       | 71.8       | 73.4       | 78.4       | 80.0        | 83.2        | 82.8        | 84.2        | 80.0        | 69.6        |        |        |        |        |        | 120.1  |
|                           | 63000 | 65.8                                       | 71.3       | 68.5       | 73.7       | 73.6        | 75.6        | 75.0        | 76.2        | 73.0        | 68.3        |        |        |        |        |        | 118.0  |
|                           | 80000 | 67.5                                       | 71.5       | 67.7       | 71.7       | 69.3        | 69.8        | 68.9        | 70.1        | 68.3        | 65.8        |        |        |        |        |        | 116.2  |
| OVERALL MEASURED          |       |  |            |            |            |             |             |             |             |             |             |        |        |        |        |        |        |
| OVERALL CALCULATED        |       | 90.1                                       | 91.6       | 94.1       | 97.0       | 99.5        | 101.6       | 103.0       | 104.2       | 101.0       | 98.9        |        |        |        |        |        | 134.9  |
| PNDB                      |       | 101.2                                      | 102.9      | 105.6      | 108.2      | 111.1       | 112.3       | 113.1       | 114.6       | 112.1       | 108.8       |        |        |        |        |        |        |

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|                    | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0    | 0   | 0   | 0   | 0   | 0   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|
| FREQ.              | (1.08) | (1.21) | (1.41) | (1.58) | (1.78) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0) |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| ( 60.96 M )        | 63     |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| VEHICLE R-55       | 100    | 48.7   | 50.3   | 50.7   | 52.0   | 53.2   | 52.2   | 51.8   | 54.5   | 57.3   | 57.0 |     |     |     |     |     |
| CONFIG 16R         | 125    | 54.3   | 53.5   | 53.9   | 55.7   | 56.1   | 56.1   | 56.8   | 56.9   | 57.2   | 57.1 |     |     |     |     |     |
| LOC SCHENECTADY    | 160    | 53.0   | 53.4   | 54.1   | 54.4   | 54.5   | 56.0   | 56.7   | 58.1   | 58.3   | 57.4 |     |     |     |     |     |
| DATE 12/10/74      | 200    | 50.4   | 51.6   | 53.2   | 55.6   | 57.4   | 57.7   | 58.3   | 59.0   | 59.9   | 57.7 |     |     |     |     |     |
| RUN 33/5           | 250    | 56.3   | 59.0   | 59.9   | 61.0   | 61.8   | 61.6   | 62.2   | 61.6   | 61.2   | 58.0 |     |     |     |     |     |
| TAPE               | 315    | 56.5   | 56.9   | 58.3   | 58.9   | 59.5   | 59.0   | 58.6   | 59.0   | 58.8   | 56.0 |     |     |     |     |     |
| BAR 29.5 HG        | 400    | 55.1   | 55.8   | 56.7   | 57.3   | 57.7   | 57.9   | 57.8   | 58.6   | 57.7   | 55.0 |     |     |     |     |     |
| 199923. N/M21      | 500    | 52.0   | 53.5   | 54.7   | 55.7   | 57.9   | 58.5   | 58.4   | 58.7   | 57.3   | 53.8 |     |     |     |     |     |
| TAMB 44. DEG F     | 630    | 52.7   | 54.9   | 56.3   | 57.9   | 59.8   | 60.7   | 60.3   | 59.6   | 58.1   | 53.3 |     |     |     |     |     |
| 1280. DEG K)       | 800    | 54.3   | 56.0   | 57.2   | 58.5   | 60.7   | 61.0   | 60.9   | 59.9   | 58.1   | 52.5 |     |     |     |     |     |
| THET 39. DEG F     | 1000   | 52.6   | 53.8   | 56.1   | 58.7   | 60.6   | 61.7   | 61.8   | 60.8   | 57.7   | 51.4 |     |     |     |     |     |
| (277. DEG K)       | 1250   | 52.0   | 54.5   | 58.0   | 59.8   | 61.2   | 62.5   | 62.3   | 62.3   | 58.4   | 51.0 |     |     |     |     |     |
| MACT 4.63 CM/M3    | 1600   | 53.3   | 55.3   | 57.4   | 60.2   | 63.5   | 64.8   | 62.1   | 62.1   | 59.9   | 49.6 |     |     |     |     |     |
| (.30483 KG/M3)     | 2000   | 52.4   | 56.8   | 61.7   | 65.0   | 68.6   | 69.1   | 64.9   | 64.1   | 61.8   | 52.1 |     |     |     |     |     |
| NFA 7798. RPM      | 2500   | 49.2   | 51.2   | 54.6   | 56.6   | 57.2   | 58.4   | 55.7   | 54.9   | 51.0   | 45.2 |     |     |     |     |     |
| ( 816. RAD/SEC)    | 3150   | 48.9   | 51.6   | 54.3   | 57.4   | 59.2   | 58.3   | 58.6   | 58.0   | 51.8   | 43.9 |     |     |     |     |     |
| NFK 7913. RPM      | 4000   | 50.9   | 53.8   | 57.4   | 60.2   | 62.0   | 62.8   | 63.0   | 63.8   | 57.3   | 46.5 |     |     |     |     |     |
| ( 829. RAD/SEC)    | 5000   | 48.8   | 51.5   | 54.4   | 58.2   | 61.4   | 62.5   | 63.2   | 64.0   | 56.1   | 44.8 |     |     |     |     |     |
| NFD 8823. RPM      | 6300   | 48.6   | 51.8   | 56.1   | 58.6   | 61.9   | 63.3   | 65.6   | 65.0   | 56.5   | 44.3 |     |     |     |     |     |
| ( 924. RAD/SEC)    | 8000   | 46.3   | 49.2   | 52.7   | 56.7   | 59.5   | 61.7   | 62.6   | 60.8   | 51.0   | 39.1 |     |     |     |     |     |
| NO. OF BLADES 15   | 10000  | 44.7   | 48.1   | 52.5   | 56.8   | 59.3   | 61.3   | 62.0   | 60.4   | 50.4   | 36.1 |     |     |     |     |     |
| PAN TIP SPEED      | 12500  | 42.4   | 45.9   | 51.1   | 55.3   | 57.3   | 60.3   | 59.8   | 58.2   | 46.8   | 31.4 |     |     |     |     |     |
| 681. FT/SEC        | 16000  | 36.2   | 40.5   | 45.2   | 49.9   | 52.3   | 53.8   | 54.5   | 51.2   | 38.4   | 26.4 |     |     |     |     |     |
|                    | 20000  | 31.4   | 36.9   | 42.0   | 46.3   | 48.9   | 50.3   | 50.2   | 46.5   | 31.6   | 9.0  |     |     |     |     |     |
|                    | 25000  | 24.0   | 30.8   | 35.7   | 40.4   | 42.1   | 43.7   | 42.4   | 37.1   | 20.2   |      |     |     |     |     |     |
|                    | 31500  | 12.0   | 18.9   | 25.5   | 30.7   | 32.4   | 32.0   | 29.1   | 21.5   | 1.0    |      |     |     |     |     |     |
|                    | 40000  |        | 1.0    | 7.9    | 12.7   | 14.3   | 13.3   | 8.0    |        |        |      |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| OVERALL CALCULATED |        | 65.7   | 67.5   | 69.8   | 72.1   | 74.4   | 75.2   | 74.7   | 74.3   | 71.1   | 66.8 |     |     |     |     |     |
| PNDB               |        | 76.2   | 78.7   | 82.2   | 84.9   | 87.6   | 88.2   | 87.2   | 87.1   | 82.6   | 74.7 |     |     |     |     |     |

11/20/80 11:00 AM '80  
 11/20/80 11:00 AM '80  
 PRINTED ON 11/20/80



MODEL SOUND PRESSURE LEVELS (50, DEC, P, 70 PERCENT REL, NUM, BAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ. (1.00, 1.24, 1.41, 1.58, 1.78, 1.94, 2.13, 2.32, 2.52, 2.73, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0)

|                             | 50    | 63   | 80   | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 | 6300 | 8000 |  |
|-----------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| SIDELINE 200. FT. (60.96 M) | 100   | 47.9 | 53.3 | 55.7 | 55.5 | 54.4 | 51.4 | 44.6 | 46.0 | 46.8 | 46.0 | 46.8 | 46.8 | 44.6 |      |      |      |      |      |      |      |      |      |  |
| VEHICLE R-55                | 125   | 44.1 | 47.7 | 45.1 | 50.2 | 45.8 | 45.3 | 47.3 | 47.2 | 46.4 | 44.0 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| CONFIG 10R                  | 160   | 43.7 | 43.9 | 44.3 | 44.6 | 45.5 | 46.0 | 46.2 | 46.8 | 46.8 | 44.6 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| LOC SCHENECTADY             | 200   | 43.1 | 44.1 | 45.0 | 46.1 | 46.4 | 46.2 | 48.8 | 48.2 | 48.6 | 46.4 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| DATE 12/10/74               | 250   | 46.0 | 47.2 | 48.1 | 48.7 | 49.3 | 49.8 | 48.7 | 48.8 | 47.7 | 44.7 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| RUN 33/0                    | 315   | 47.5 | 48.6 | 49.3 | 49.7 | 50.0 | 49.2 | 48.6 | 48.0 | 47.3 | 43.5 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| TAPE                        | 400   | 46.4 | 46.8 | 47.7 | 47.6 | 48.4 | 48.4 | 47.8 | 46.4 | 47.4 | 43.5 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| BAR 29.6 HG                 | 500   | 44.3 | 44.7 | 45.9 | 47.0 | 48.6 | 48.8 | 49.4 | 49.2 | 47.5 | 42.0 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| (99923. N/M2)               | 630   | 45.9 | 47.1 | 48.6 | 50.2 | 52.3 | 53.2 | 52.5 | 52.1 | 50.1 | 43.5 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| TAMB 44. DEG F              | 800   | 45.8 | 50.7 | 50.5 | 52.5 | 54.9 | 55.3 | 54.7 | 54.2 | 52.1 | 45.2 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| (280. DEG K)                | 1000  | 45.9 | 47.3 | 50.3 | 53.4 | 56.1 | 57.7 | 58.0 | 58.0 | 56.4 | 46.4 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| T-RET 39. DEG F             | 1250  | 47.0 | 57.5 | 61.3 | 67.1 | 67.2 | 69.5 | 68.6 | 65.6 | 62.7 | 50.0 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| (277. DEG K)                | 1600  | 45.8 | 52.0 | 54.9 | 60.4 | 61.0 | 62.8 | 62.1 | 59.1 | 56.4 | 44.3 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| HACT 4.83 CH/M3             | 2000  | 41.4 | 43.3 | 45.2 | 47.5 | 49.4 | 50.6 | 49.4 | 48.6 | 46.8 | 37.9 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| (20463 KG/M3)               | 2500  | 41.2 | 42.7 | 45.6 | 47.9 | 48.4 | 49.2 | 51.2 | 50.4 | 45.0 | 35.2 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| NFA 5467. RPM               | 3150  | 39.2 | 41.6 | 43.6 | 47.1 | 49.2 | 49.1 | 49.6 | 51.0 | 47.8 | 35.2 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| (572. RAD/SEC)              | 4000  | 41.4 | 43.3 | 46.2 | 49.7 | 53.5 | 53.1 | 53.0 | 54.3 | 52.5 | 39.0 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| NFK 5548. RPM               | 5000  | 45.1 | 42.5 | 45.6 | 48.7 | 52.2 | 53.8 | 53.7 | 56.2 | 52.6 | 38.1 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| (581. RAD/SEC)              | 6300  | 39.9 | 41.8 | 44.8 | 48.1 | 51.2 | 52.3 | 54.1 | 54.7 | 51.0 | 36.8 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| NPD 8823. RPM               | 8000  | 37.6 | 39.7 | 42.5 | 45.7 | 49.3 | 50.9 | 51.8 | 52.1 | 45.0 | 31.9 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| (924. RAD/SEC)              | 10000 | 35.7 | 38.6 | 41.8 | 45.3 | 48.6 | 49.8 | 50.5 | 51.6 | 44.6 | 29.4 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| NO. OF BLADES 15            | 12500 | 33.6 | 36.2 | 40.1 | 44.0 | 46.5 | 48.8 | 48.8 | 48.5 | 40.1 | 23.1 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| FAN TIP SPEED               | 16000 | 27.7 | 30.7 | 34.7 | 38.4 | 42.3 | 42.5 | 44.0 | 42.2 | 32.2 | 13.1 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 477. FT/SEC                 | 20000 | 22.4 | 26.2 | 30.5 | 35.0 | 38.6 | 38.3 | 38.2 | 36.7 | 24.5 |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|                             | 25000 | 15.5 | 19.2 | 23.7 | 28.1 | 31.1 | 29.7 | 28.7 | 24.8 | 11.2 |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|                             | 31500 | 3.5  | 9.4  | 13.3 | 19.0 | 21.4 | 19.5 | 18.3 | 16.3 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|                             | 40000 |      |      |      | 1.2  | 2.8  | 1.1  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|                             | 50000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|                             | 63000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|                             | 80000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| OVERALL CALCULATED          |       | 57.9 | 62.0 | 64.6 | 69.0 | 69.6 | 71.4 | 70.7 | 69.8 | 66.2 | 57.0 |      |      |      |      |      |      |      |      |      |      |      |      |  |
| PNDB                        |       | 67.3 | 71.7 | 74.5 | 78.8 | 79.8 | 81.4 | 81.0 | 79.8 | 76.8 | 69.7 |      |      |      |      |      |      |      |      |      |      |      |      |  |

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|                     | FR20.  | 51.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156. | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   | PWL   |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|-------|
|                     | (0.02) | (1.00) | (1.74) | (1.41) | (1.54) | (1.74) | (1.04) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 1(0. | 1(0. | 1(0. | 1(0. | 1(0. | 1(0. |       |
| RADIAL 17. FT.      | 50     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |       |
|                     | 63     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |       |
|                     | 80     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |       |
| VEHICLE (S. M)      | 100    | 74.7   | 76.2   | 80.2   | 82.7   | 85.0   | 81.4   | 74.0   | 73.2   | 70.5   | 74.3   | 76.7 |      |      |      |      |      |      | 113.5 |
| CONFIG 17           | 125    | 70.0   | 66.4   | 70.2   | 67.5   | 70.4   | 67.0   | 64.0   | 70.2   | 72.0   | 72.0   | 75.2 |      |      |      |      |      |      | 104.6 |
| LOC SCHEMATIC       | 160    | 66.5   | 66.2   | 64.4   | 67.0   | 67.5   | 67.1   | 64.3   | 70.0   | 71.5   | 73.5   | 75.4 |      |      |      |      |      |      | 103.8 |
| DATE 12/11/74       | 200    | 64.7   | 64.7   | 65.6   | 64.7   | 64.5   | 60.4   | 70.3   | 72.7   | 73.7   | 75.3   | 77.6 |      |      |      |      |      |      | 105.5 |
| RUN 36/1            | 250    | 67.9   | 68.2   | 60.4   | 70.2   | 70.5   | 71.1   | 72.3   | 72.7   | 73.4   | 74.7   | 75.6 |      |      |      |      |      |      | 106.0 |
| BAR 29.4 MC         | 315    | 70.0   | 70.2   | 71.1   | 71.0   | 71.0   | 71.0   | 71.0   | 72.5   | 72.7   | 73.8   | 74.6 |      |      |      |      |      |      | 106.1 |
|                     | 400    | 64.5   | 68.9   | 64.5   | 69.5   | 60.5   | 70.4   | 71.3   | 72.0   | 72.7   | 73.3   | 74.4 |      |      |      |      |      |      | 109.2 |
|                     | 500    | 66.5   | 66.2   | 66.6   | 67.7   | 64.3   | 70.2   | 71.6   | 73.0   | 73.4   | 73.8   | 73.9 |      |      |      |      |      |      | 109.0 |
| (100934. N/42)      | 630    | 60.3   | 68.7   | 69.7   | 71.0   | 72.4   | 74.4   | 76.5   | 76.5   | 76.5   | 76.5   | 74.4 |      |      |      |      |      |      | 108.4 |
| TAMB 45. DEG F      | 800    | 70.6   | 69.9   | 70.4   | 72.0   | 71.6   | 75.4   | 76.0   | 76.5   | 76.9   | 77.0   | 73.7 |      |      |      |      |      |      | 108.7 |
| (128. DEG K)        | 1000   | 67.9   | 67.9   | 64.4   | 71.0   | 72.8   | 74.2   | 75.0   | 77.7   | 78.9   | 79.0   | 73.6 |      |      |      |      |      |      | 109.2 |
| TNET 40. DEG F      | 1250   | 72.3   | 71.5   | 75.0   | 78.3   | 70.4   | 61.7   | 64.2   | 65.5   | 65.2   | 66.0   | 79.7 |      |      |      |      |      |      | 116.4 |
| (270. DEG K)        | 1470   | 64.3   | 68.7   | 71.0   | 76.1   | 74.9   | 74.7   | 60.5   | 61.5   | 61.0   | 62.6   | 76.4 |      |      |      |      |      |      | 112.7 |
| MACT 4.04 0/43      | 2000   | 64.6   | 65.3   | 66.6   | 68.6   | 70.7   | 72.2   | 72.5   | 72.7   | 73.2   | 73.3   | 69.9 |      |      |      |      |      |      | 105.1 |
| (1.00950A. 40/43)   | 2500   | 63.8   | 64.5   | 64.6   | 64.4   | 70.4   | 71.4   | 71.7   | 70.7   | 72.7   | 71.3   | 67.4 |      |      |      |      |      |      | 104.2 |
| NPA 45.5. RPM       | 3150   | 62.5   | 63.3   | 65.8   | 69.2   | 71.2   | 73.7   | 73.9   | 74.4   | 76.5   | 75.3   | 69.1 |      |      |      |      |      |      | 102.7 |
| (57A. RAD/SEC)      | 4000   | 64.3   | 64.0   | 60.3   | 72.2   | 74.4   | 77.4   | 62.1   | 70.4   | 62.9   | 61.5   | 75.6 |      |      |      |      |      |      | 112.3 |
| NPA 55A. RPM        | 5000   | 66.0   | 64.7   | 64.7   | 71.0   | 74.0   | 77.0   | 70.6   | 61.0   | 64.1   | 61.9   | 75.0 |      |      |      |      |      |      | 112.0 |
| (50A. RAD/SEC)      | 6300   | 64.8   | 67.3   | 69.2   | 72.5   | 74.4   | 74.4   | 63.3   | 64.1   | 61.9   | 75.6   |      |      |      |      |      |      |      | 113.7 |
| NPA 60.0. RPM       | 8000   | 64.5   | 67.0   | 67.8   | 71.4   | 74.4   | 77.4   | 60.6   | 62.4   | 64.0   | 61.6   | 74.7 |      |      |      |      |      |      | 113.4 |
| (62A. RAD/SEC)      | 10000  | 63.5   | 65.3   | 64.8   | 66.4   | 72.3   | 75.4   | 74.4   | 61.1   | 62.6   | 77.9   | 72.1 |      |      |      |      |      |      | 111.5 |
| NO. OF BLADES 15    | 12000  | 63.5   | 66.4   | 65.4   | 69.9   | 73.0   | 74.1   | 77.7   | 60.4   | 63.0   | 76.6   | 72.3 |      |      |      |      |      |      | 111.6 |
| PAN TIP SPEED 14000 | 14000  | 61.8   | 68.0   | 64.3   | 67.4   | 71.2   | 74.0   | 74.6   | 60.0   | 61.8   | 76.9   | 71.5 |      |      |      |      |      |      | 111.3 |
| 481. FT/SEC         | 20000  | 61.6   | 69.9   | 64.1   | 68.5   | 71.4   | 74.0   | 77.0   | 60.3   | 62.3   | 76.4   | 70.5 |      |      |      |      |      |      | 111.0 |
|                     | 24000  | 62.2   | 72.2   | 63.8   | 64.9   | 72.1   | 75.1   | 74.7   | 79.4   | 81.1   | 76.2   | 69.6 |      |      |      |      |      |      | 111.6 |
|                     | 31500  | 61.6   | 72.7   | 63.6   | 69.0   | 72.0   | 75.0   | 77.5   | 79.2   | 80.3   | 75.6   | 68.7 |      |      |      |      |      |      | 112.5 |
|                     | 40000  | 60.3   | 71.0   | 61.6   | 65.2   | 64.4   | 72.1   | 74.0   | 75.6   | 77.1   | 72.6   | 63.4 |      |      |      |      |      |      | 110.0 |
|                     | 50000  | 62.1   | 70.0   | 61.2   | 62.4   | 64.5   | 64.1   | 69.8   | 71.1   | 71.3   | 69.1   | 59.1 |      |      |      |      |      |      | 108.4 |
|                     | 63000  | 62.5   | 69.1   | 61.0   | 60.0   | 60.3   | 62.4   | 63.7   | 66.6   | 64.4   | 64.4   | 57.3 |      |      |      |      |      |      | 107.1 |
|                     | 80000  | 64.8   | 68.9   | 61.6   | 61.3   | 60.4   | 60.3   | 60.5   | 59.9   | 58.7   | 57.2   |      |      |      |      |      |      |      | 109.1 |
| OVERALL MEASURED    |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |       |
| OVERALL CALCULATED  |        | 82.4   | 84.8   | 84.8   | 87.4   | 88.6   | 90.1   | 91.8   | 93.3   | 94.5   | 92.9   | 88.7 |      |      |      |      |      |      | 128.4 |
| PND8                |        | 72.1   | 92.9   | 94.5   | 97.0   | 98.4   | 101.3  | 103.2  | 104.2  | 105.6  | 104.6  | 99.9 |      |      |      |      |      |      |       |

11/10/74 10:00 AM 11/10/74 10:00 AM 11/10/74 10:00 AM 11/10/74 10:00 AM 11/10/74 10:00 AM

| PRG. NO.                     | 51.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.  | 0.  | 0.  | 0.  | 0.   |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|------|
|                              | (0.02) | (1.00) | (1.24) | (1.41) | (1.46) | (1.70) | (1.04) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | (0. | (0. | (0. | (0. | (0.) |
| SIDE LIP 2ND. FT.            | 50     | 63     |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| (60.96 W)                    | 60     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| VEHICLE 6-55                 | 100    | 59.0   | 53.5   | 50.1   | 41.0   | 41.2   | 50.7   | 50.6   | 50.2   | 46.0   | 47.7   | 46.6 |     |     |     |     |      |
| COAFIG 17                    | 125    | 44.2   | 43.6   | 44.0   | 45.7   | 44.1   | 46.1   | 45.7   | 47.1   | 47.0   | 49.3   | 44.0 |     |     |     |     |      |
| LOC SCHEMECTADV              | 150    | 49.6   | 43.3   | 44.2   | 45.1   | 45.0   | 45.3   | 45.0   | 46.8   | 46.0   | 46.7   | 44.0 |     |     |     |     |      |
| DATE 12/11/74                | 200    | 41.8   | 41.7   | 43.3   | 44.0   | 44.7   | 47.7   | 47.0   | 49.4   | 48.0   | 46.3   | 47.0 |     |     |     |     |      |
| RUN 30/1                     | 250    | 43.0   | 45.1   | 47.0   | 48.2   | 48.6   | 49.1   | 48.7   | 49.3   | 48.6   | 47.6   | 44.0 |     |     |     |     |      |
| TAPP                         | 315    | 45.0   | 47.0   | 48.0   | 48.0   | 48.0   | 49.0   | 49.1   | 49.0   | 47.7   | 46.5   | 43.0 |     |     |     |     |      |
| BAR 20.8 MC                  | 400    | 44.2   | 45.7   | 46.1   | 47.3   | 47.5   | 48.4   | 48.5   | 48.4   | 47.6   | 45.0   | 43.1 |     |     |     |     |      |
| (100934, N/42)               | 500    | 49.1   | 42.0   | 44.0   | 45.5   | 44.2   | 47.0   | 48.0   | 49.3   | 48.2   | 46.2   | 42.0 |     |     |     |     |      |
| TA-9 40. DFC F               | 630    | 44.0   | 45.2   | 46.0   | 46.0   | 50.0   | 52.0   | 53.0   | 52.0   | 51.1   | 48.0   | 42.0 |     |     |     |     |      |
| (200, DFC F)                 | 900    | 49.9   | 46.3   | 47.5   | 49.5   | 51.2   | 52.0   | 53.0   | 52.5   | 51.4   | 49.1   | 41.5 |     |     |     |     |      |
| THEY 47. DFC F               | 1000   | 43.3   | 44.2   | 45.4   | 46.4   | 46.3   | 51.4   | 52.0   | 53.0   | 53.2   | 50.0   | 41.2 |     |     |     |     |      |
| (270, DFC F)                 | 1250   | 47.3   | 47.5   | 52.7   | 46.0   | 48.7   | 54.0   | 49.9   | 61.2   | 59.3   | 47.6   | 46.0 |     |     |     |     |      |
| MACT 4.04 G/M <sup>3</sup>   | 1600   | 43.6   | 44.6   | 44.5   | 43.2   | 45.1   | 55.0   | 47.0   | 57.0   | 54.0   | 43.8   | 43.1 |     |     |     |     |      |
| (1.00500, G/M <sup>3</sup> ) | 2000   | 39.2   | 40.9   | 43.1   | 45.5   | 47.7   | 49.1   | 48.0   | 48.0   | 46.0   | 44.3   | 36.2 |     |     |     |     |      |
| WPA 4500. RPM                | 2500   | 38.2   | 40.0   | 41.0   | 45.1   | 47.3   | 48.2   | 47.0   | 49.0   | 46.1   | 42.0   | 33.2 |     |     |     |     |      |
| (470, RPM/SEC)               | 3150   | 34.0   | 38.4   | 41.0   | 44.0   | 47.0   | 51.1   | 49.0   | 49.9   | 48.5   | 45.5   | 34.2 |     |     |     |     |      |
| WPA 9500. RPM                | 4000   | 30.7   | 42.7   | 44.0   | 48.2   | 51.0   | 53.4   | 45.5   | 54.1   | 55.3   | 50.9   | 39.0 |     |     |     |     |      |
| (500, RPM/SEC)               | 5000   | 30.1   | 41.1   | 44.0   | 47.7   | 49.0   | 53.0   | 54.0   | 55.0   | 56.2   | 40.5   | 38.4 |     |     |     |     |      |
| WPA 10000. RPM               | 6300   | 30.1   | 40.0   | 43.0   | 47.4   | 49.0   | 53.4   | 45.2   | 56.4   | 55.2   | 40.7   | 37.1 |     |     |     |     |      |
| (1020, RPM/SEC)              | 8000   | 34.3   | 39.3   | 41.2   | 45.0   | 46.6   | 51.7   | 43.0   | 54.4   | 53.0   | 47.4   | 33.4 |     |     |     |     |      |
| NO. OF BLADPS IS             | 10000  | 32.5   | 36.0   | 37.0   | 41.0   | 44.0   | 47.0   | 50.0   | 51.1   | 50.1   | 41.0   | 26.0 |     |     |     |     |      |
| PAN TIP SPEEDS               | 12500  | 29.0   | 34.0   | 34.0   | 39.1   | 42.4   | 44.0   | 46.0   | 47.0   | 47.4   | 37.7   | 31.4 |     |     |     |     |      |
| 481. FT/SEC                  | 20000  | 23.3   | 32.0   | 30.0   | 34.4   | 38.0   | 40.4   | 41.0   | 43.1   | 41.2   | 29.0   | 11.2 |     |     |     |     |      |
|                              | 25000  | 17.0   | 28.4   | 24.7   | 30.3   | 33.0   | 36.0   | 37.2   | 37.0   | 34.0   | 20.7   |      |     |     |     |     |      |
|                              | 31500  | 4.0    | 23.0   | 17.2   | 23.7   | 27.5   | 30.0   | 29.6   | 28.0   | 24.3   | 0.3    |      |     |     |     |     |      |
|                              | 40000  |        | 12.1   | 6.5    | 13.0   | 17.0   | 19.7   | 19.7   | 16.7   | 0.5    |        |      |     |     |     |     |      |
|                              | 50000  |        |        |        |        |        | 1.0    | 0.3    |        |        |        |      |     |     |     |     |      |
|                              | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
|                              | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| OVERALL CALCULATED           | 57.5   | 50.4   | 61.7   | 44.5   | 45.4   | 66.2   | 66.0   | 66.7   | 65.0   | 62.0   | 50.0   |      |     |     |     |     |      |
| PNDB                         | 69.7   | 67.6   | 70.1   | 73.2   | 74.0   | 77.4   | 78.7   | 76.2   | 76.1   | 74.3   | 64.6   |      |     |     |     |     |      |

ORIGINAL PAGE IS  
 OF POOR QUALITY



NAME: 4444 PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DATA  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                  | 53.   | 62.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SIGNAL 200. FT.  | 50    | 53    | 56    | 59    | 62    | 65    | 68    | 71    | 74    | 77    | 80    | 83    | 86    | 89    | 92    | 95    | 98    |
| VEHICLE 4-55     | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   |
| LOC SCHEVERTON   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   |
| DATE 12/11/74    | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   |
| RUN 30/2         | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   |
| TAPE             | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   |
| 800 30.0 MC      | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   |
| 1000 30.0 1/221  | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   |
| TAMB 40. DEG F   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   |
| 1200 40. DEG F   | 1700  | 1700  | 1700  | 1700  | 1700  | 1700  | 1700  | 1700  | 1700  | 1700  | 1700  | 1700  | 1700  | 1700  | 1700  | 1700  | 1700  |
| THEY 40. DEG F   | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  |
| 1270 40. DEG F   | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  | 1400  |
| FACT 4.77 C/1/3  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  |
| 1.30077 C/1/3    | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  |
| MFA 4270. 00"    | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  |
| 1 457. 007/SEC   | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  |
| MFA 4344. 00"    | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  |
| 1 444. 007/SEC   | 6100  | 6100  | 6100  | 6100  | 6100  | 6100  | 6100  | 6100  | 6100  | 6100  | 6100  | 6100  | 6100  | 6100  | 6100  | 6100  | 6100  |
| MFA 4423. 00"    | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  |
| 1 424. 007/SEC   | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 |
| NO. OF BLADES 15 | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 |
| PAN TIP SPEED    | 14000 | 14000 | 14000 | 14000 | 14000 | 14000 | 14000 | 14000 | 14000 | 14000 | 14000 | 14000 | 14000 | 14000 | 14000 | 14000 | 14000 |
| 360. FT/SEC      | 22000 | 22000 | 22000 | 22000 | 22000 | 22000 | 22000 | 22000 | 22000 | 22000 | 22000 | 22000 | 22000 | 22000 | 22000 | 22000 | 22000 |
|                  | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 |
|                  | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 |
|                  | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 |
|                  | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 |
|                  | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 |
|                  | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 |
| OVERALL C.C. CUM | 50.0  | 60.7  | 62.1  | 63.8  | 64.7  | 67.0  | 68.0  | 69.3  | 69.6  | 64.5  | 69.4  | 69.6  | 64.5  | 69.4  | 69.6  | 69.6  | 69.6  |
| PNDU             | 64.8  | 76.4  | 77.0  | 78.4  | 78.3  | 80.4  | 81.1  | 81.4  | 81.7  | 76.1  | 81.6  | 81.6  | 76.1  | 81.6  | 81.6  | 81.6  | 81.6  |

MODEL WIND PROSQUIP LEVELS 150. DEG. P. 70 PERCENT DEL. M.M. DAY

ANGLES FROM INLET IN DEGREES (ANG. MAGNITUDE)

|                   | 53.   | 59.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 150.  | 0.    | 0.  | 0.  | 0.  | 0.  | 0.  | PCL   |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|
| PRC.              | 19.02 | 11.00 | 11.20 | 11.41 | 11.54 | 11.70 | 11.84 | 12.13 | 12.32 | 12.52 | 12.73 | 10.   | 10. | 10. | 10. | 10. | 10. |       |
| 50                |       |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |     |       |
| 63                |       |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |     |       |
| 80                |       |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |     |       |
| VEHICLE 1 5. 41   | 100   | 88.3  | 71.4  | 71.0  | 70.0  | 71.1  | 71.7  | 71.4  | 77.2  | 75.2  | 80.3  | 83.9  |     |     |     |     |     | 100.4 |
| 125               | 74.0  | 77.0  | 77.0  | 75.7  | 74.4  | 74.0  | 75.1  | 77.2  | 77.7  | 81.1  | 83.0  |       |     |     |     |     |     | 111.0 |
| CONFIC 17         | 100   | 79.3  | 73.1  | 72.1  | 72.4  | 74.4  | 74.4  | 74.4  | 70.0  | 70.7  | 81.0  | 83.0  |     |     |     |     |     | 111.1 |
| LOC SCHEMERTABV   | 200   | 71.3  | 70.0  | 71.0  | 72.2  | 74.1  | 74.0  | 77.4  | 70.1  | 80.3  | 83.0  | 84.3  |     |     |     |     |     | 112.4 |
| DATE 12/11/74     | 350   | 74.5  | 74.4  | 75.0  | 74.0  | 77.1  | 77.4  | 70.1  | 70.0  | 80.7  | 82.0  | 83.0  |     |     |     |     |     | 113.1 |
| RUN 30/3          | 315   | 77.0  | 76.0  | 77.1  | 77.4  | 77.0  | 74.2  | 70.0  | 70.1  | 80.2  | 82.0  | 82.0  |     |     |     |     |     | 113.2 |
| TAPE              | 400   | 74.0  | 74.4  | 74.0  | 75.2  | 74.4  | 74.4  | 77.0  | 70.0  | 70.5  | 81.0  | 82.3  |     |     |     |     |     | 111.0 |
| BAD 30.0 MC       | 500   | 73.1  | 72.4  | 72.0  | 73.4  | 74.0  | 74.4  | 77.0  | 70.0  | 80.0  | 81.1  | 81.1  |     |     |     |     |     | 111.5 |
| 100530. 4. 21     | 630   | 74.0  | 75.1  | 74.4  | 70.2  | 77.7  | 70.2  | 81.1  | 82.2  | 82.0  | 82.0  | 80.0  |     |     |     |     |     | 113.0 |
| TAPE 45. DFG P    | 600   | 74.0  | 74.4  | 74.0  | 77.4  | 70.1  | 83.4  | 81.3  | 81.0  | 82.2  | 82.3  | 80.0  |     |     |     |     |     | 114.3 |
| 1200. DFG 41      | 1030  | 73.0  | 74.0  | 74.1  | 75.0  | 77.0  | 70.4  | 81.1  | 82.4  | 83.2  | 82.8  | 70.0  |     |     |     |     |     | 114.0 |
| TAPE 40. DFG P    | 1251  | 72.0  | 74.0  | 74.1  | 70.2  | 70.4  | 70.7  | 81.0  | 83.4  | 83.7  | 83.1  | 70.0  |     |     |     |     |     | 114.5 |
| 1270. DFG 41      | 1400  | 73.0  | 73.4  | 75.4  | 70.0  | 80.2  | 82.4  | 83.0  | 85.1  | 85.5  | 85.1  | 70.4  |     |     |     |     |     | 115.2 |
| WACT 4.00 0. 73   | 2000  | 72.7  | 83.0  | 72.4  | 70.0  | 74.4  | 81.0  | 82.4  | 83.4  | 83.7  | 82.0  | 77.4  |     |     |     |     |     | 115.2 |
| 1.00500 0. 73     | 2500  | 74.4  | 77.5  | 71.0  | 74.4  | 74.4  | 77.0  | 74.1  | 74.4  | 70.2  | 75.0  | 74.0  |     |     |     |     |     | 109.0 |
| MFA 7070. 00      | 3150  | 70.4  | 74.0  | 72.1  | 75.0  | 77.5  | 80.0  | 81.3  | 81.1  | 82.2  | 70.4  | 75.3  |     |     |     |     |     | 113.1 |
| 1 741. 00/SEC     | 4000  | 72.0  | 73.7  | 75.0  | 70.0  | 81.2  | 84.2  | 84.2  | 85.3  | 87.2  | 84.1  | 70.5  |     |     |     |     |     | 117.3 |
| MFA 7173. 00      | 5000  | 72.4  | 73.4  | 74.7  | 70.0  | 82.5  | 84.2  | 84.0  | 87.2  | 80.9  | 85.0  | 70.2  |     |     |     |     |     | 115.2 |
| 1 751. 00/SEC     | 6300  | 72.0  | 73.5  | 74.0  | 70.2  | 82.4  | 84.2  | 84.0  | 80.3  | 91.0  | 86.3  | 80.0  |     |     |     |     |     | 122.0 |
| MFC 8023. 00      | 7500  | 72.5  | 74.4  | 74.3  | 80.0  | 83.0  | 84.0  | 84.2  | 80.4  | 91.5  | 86.5  | 80.4  |     |     |     |     |     | 127.7 |
| 1 024. 00/SEC     | 10000 | 74.0  | 72.3  | 74.0  | 70.0  | 80.0  | 83.0  | 87.0  | 80.2  | 80.0  | 83.7  | 70.1  |     |     |     |     |     | 110.2 |
| NO. OF BLADES 15  | 19400 | 70.4  | 72.2  | 73.2  | 70.0  | 70.0  | 81.4  | 83.0  | 87.0  | 80.3  | 83.0  | 77.3  |     |     |     |     |     | 110.1 |
| PAN TIP SPEED     | 10030 | 64.7  | 72.2  | 71.0  | 75.0  | 70.5  | 81.3  | 84.2  | 87.4  | 80.4  | 87.2  | 77.2  |     |     |     |     |     | 117.0 |
| 010. FT/SEC       | 29000 | 64.7  | 72.1  | 72.3  | 75.7  | 70.1  | 81.2  | 84.1  | 87.2  | 80.3  | 82.5  | 70.2  |     |     |     |     |     | 119.0 |
|                   | 29400 | 64.0  | 74.4  | 72.5  | 70.0  | 70.7  | 81.0  | 84.4  | 87.0  | 80.0  | 82.3  | 70.3  |     |     |     |     |     | 110.3 |
|                   | 31400 | 67.0  | 74.4  | 72.4  | 77.0  | 80.0  | 83.3  | 84.0  | 80.0  | 87.5  | 81.4  | 74.0  |     |     |     |     |     | 110.0 |
|                   | 40330 | 64.0  | 70.0  | 70.4  | 74.1  | 77.4  | 70.4  | 82.4  | 83.2  | 83.0  | 70.1  | 60.0  |     |     |     |     |     | 117.0 |
|                   | 50330 | 67.4  | 68.2  | 68.0  | 70.0  | 73.1  | 75.2  | 74.4  | 74.2  | 70.0  | 74.0  | 65.0  |     |     |     |     |     | 115.3 |
|                   | 63030 | 64.0  | 65.3  | 67.0  | 66.2  | 67.0  | 60.0  | 72.0  | 71.2  | 72.0  | 64.0  | 64.0  |     |     |     |     |     | 112.4 |
|                   | 80000 | 73.0  | 67.0  | 70.0  | 67.4  | 64.0  | 64.0  | 64.0  | 67.0  | 67.0  | 67.3  | 60.0  |     |     |     |     |     | 115.0 |
| OVERALL MEASURED  |       | 87.4  | 80.7  | 84.0  | 81.1  | 83.4  | 85.4  | 87.5  | 80.4  | 100.7 | 87.3  | 84.0  |     |     |     |     |     | 131.2 |
| DOUBLE CALCULATED |       | 80.2  | 102.1 | 100.0 | 102.0 | 104.2 | 107.9 | 100.0 | 110.0 | 111.0 | 100.0 | 105.2 |     |     |     |     |     |       |

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INFLT IN DEGREES (AND RADIANS)

|                             | FRF0. | 53.    | 63.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|-----------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
|                             |       | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.74) | (1.91) | (2.13) | (2.32) | (2.52) | (2.73) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) |
| SIDELINE 200. FT.           | 40    |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| ( 60.08 M )                 | 100   | 44.6   | 48.7   | 49.6   | 49.9   | 49.8   | 49.0   | 49.7   | 49.1   | 50.8   | 43.8   | 53.8   |      |      |      |      |      |      |
| VEHICLE 4-55                | 125   | 51.3   | 55.1   | 55.7   | 53.9   | 49.7   | 53.1   | 42.4   | 54.0   | 53.2   | 44.4   | 53.8   |      |      |      |      |      |      |
| CONFIG 17                   | 150   | 48.7   | 50.2   | 49.0   | 49.6   | 41.4   | 51.5   | 43.0   | 53.7   | 54.1   | 44.8   | 53.4   |      |      |      |      |      |      |
| LCC SCHENECTADY             | 200   | 47.3   | 47.8   | 49.3   | 49.2   | 42.3   | 54.7   | 44.9   | 55.4   | 55.7   | 48.6   | 53.7   |      |      |      |      |      |      |
| DATE 12/11/74               | 250   | 50.5   | 51.3   | 53.2   | 44.0   | 44.2   | 55.3   | 46.6   | 56.5   | 55.8   | 45.5   | 53.0   |      |      |      |      |      |      |
| RUN 36/3                    | 315   | 52.9   | 43.5   | 54.8   | 45.3   | 44.0   | 54.0   | 46.0   | 55.6   | 55.2   | 45.3   | 51.8   |      |      |      |      |      |      |
| TAPE                        | 400   | 50.3   | 51.4   | 52.3   | 43.0   | 43.6   | 54.2   | 44.9   | 55.0   | 54.4   | 54.2   | 51.0   |      |      |      |      |      |      |
| BAR 29.8 HG                 | 500   | 48.7   | 49.0   | 50.0   | 41.2   | 42.7   | 54.1   | 44.8   | 55.2   | 54.7   | 43.5   | 49.5   |      |      |      |      |      |      |
| (00534. M/M <sup>2</sup> )  | 630   | 50.1   | 51.7   | 52.6   | 43.4   | 44.4   | 54.8   | 44.2   | 54.3   | 56.6   | 44.8   | 49.0   |      |      |      |      |      |      |
| TAMB 48. DPG F              | 800   | 52.2   | 53.0   | 54.0   | 45.0   | 44.8   | 57.0   | 44.3   | 57.0   | 46.7   | 44.4   | 48.7   |      |      |      |      |      |      |
| (280. DPG H)                | 1000  | 49.1   | 51.1   | 51.1   | 43.3   | 44.4   | 56.8   | 47.9   | 58.2   | 57.5   | 44.7   | 47.1   |      |      |      |      |      |      |
| TNEY 40. DPG F              | 1250  | 47.9   | 53.0   | 51.0   | 43.5   | 44.9   | 54.0   | 44.5   | 59.1   | 57.8   | 44.7   | 48.8   |      |      |      |      |      |      |
| (278. DPG H)                | 1500  | 48.7   | 49.3   | 52.0   | 45.1   | 47.4   | 49.0   | 40.3   | 60.6   | 59.4   | 46.4   | 48.1   |      |      |      |      |      |      |
| MACT 5.08 GM/M <sup>3</sup> | 2000  | 47.2   | 58.6   | 50.8   | 43.5   | 44.4   | 57.0   | 49.1   | 58.7   | 57.4   | 43.8   | 43.8   |      |      |      |      |      |      |
| (.00566 KG/M <sup>3</sup> ) | 2500  | 44.7   | 53.0   | 47.9   | 41.1   | 44.4   | 51.7   | 42.2   | 50.7   | 49.6   | 48.3   | 40.6   |      |      |      |      |      |      |
| NFA 7076. RPM               | 3150  | 44.4   | 49.1   | 44.1   | 42.1   | 44.1   | 56.4   | 47.1   | 55.8   | 55.7   | 49.5   | 40.4   |      |      |      |      |      |      |
| ( 741. RAD/SEC)             | 4000  | 48.3   | 48.4   | 50.6   | 44.9   | 47.9   | 60.2   | 40.1   | 59.5   | 60.1   | 43.5   | 43.5   |      |      |      |      |      |      |
| NFR 7173. RPM               | 5000  | 46.0   | 47.8   | 51.0   | 45.6   | 44.4   | 60.4   | 42.0   | 61.2   | 62.9   | 44.5   | 43.1   |      |      |      |      |      |      |
| ( 751. RAD/SEC)             | 6300  | 44.9   | 47.1   | 50.5   | 44.3   | 44.1   | 59.7   | 41.3   | 62.4   | 62.7   | 44.0   | 41.8   |      |      |      |      |      |      |
| NFD 8823. RPM               | 8000  | 43.4   | 46.8   | 49.7   | 44.0   | 47.7   | 59.3   | 41.4   | 62.3   | 61.1   | 42.3   | 39.1   |      |      |      |      |      |      |
| ( 924. RAD/SEC)             | 10000 | 39.6   | 42.9   | 45.9   | 41.0   | 43.3   | 54.3   | 48.5   | 59.3   | 57.1   | 46.8   | 32.9   |      |      |      |      |      |      |
| NO. OF BLADFS 15            | 12500 | 34.7   | 40.4   | 42.6   | 46.8   | 49.5   | 51.7   | 43.0   | 55.2   | 53.7   | 43.0   | 26.3   |      |      |      |      |      |      |
| FAN TIP SPEED               | 16000 | 30.1   | 36.2   | 37.2   | 42.4   | 44.4   | 47.8   | 50.8   | 50.5   | 47.7   | 34.9   | 18.9   |      |      |      |      |      |      |
| 618. FT/SEC                 | 20000 | 24.1   | 30.8   | 32.9   | 37.5   | 41.2   | 42.8   | 44.3   | 44.7   | 41.9   | 26.7   | 3.8    |      |      |      |      |      |      |
|                             | 25000 | 18.5   | 25.2   | 25.0   | 31.4   | 34.1   | 38.4   | 37.7   | 38.9   | 31.8   | 14.4   |        |      |      |      |      |      |      |
|                             | 31500 | 1.9    | 13.8   | 15.2   | 21.8   | 24.0   | 27.9   | 26.8   | 24.4   | 16.8   |        |        |      |      |      |      |      |      |
|                             | 40000 |        |        |        | 4.0    | 8.0    | 9.4    | 8.6    | 3.0    |        |        |        |      |      |      |      |      |      |
|                             | 50000 |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                             | 63000 |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                             | 80000 |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| OVERALL CALCULATED          |       | 61.8   | 65.0   | 64.8   | 48.8   | 44.8   | 70.3   | 71.4   | 71.8   | 71.2   | 47.3   | 62.8   |      |      |      |      |      |      |
| PNDB                        |       | 72.0   | 77.5   | 75.8   | 70.1   | 41.8   | 83.4   | 84.3   | 84.0   | 84.3   | 78.8   | 70.2   |      |      |      |      |      |      |

MODEL SOUND PRESSURE LEVELS (50. DEG. F., 70 PERCENT REL. HUM., DAV)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                    | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.    | 0.    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|-------|-------|
| PRG#               | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 110. | 110. | 110. | 110. | 110.) |       |
| 50                 |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |       |
| 63                 |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |       |
| 80                 |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |       |
| RADIAL 17. FT.     |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |       |
| VEHICLE            | 100    | 69.8   | 71.4   | 73.1   | 72.0   | 74.1   | 74.4   | 74.1   | 74.7   | 74.2   | 74.8   | 87.4 |      |      |      |      |       | 112.5 |
| CONFIG             | 125    | 74.5   | 76.9   | 75.4   | 75.4   | 77.1   | 77.7   | 78.4   | 79.9   | 81.5   | 84.1   | 86.6 |      |      |      |      |       | 114.1 |
| LOC                | 160    | 74.5   | 75.8   | 74.6   | 75.0   | 74.1   | 74.4   | 74.9   | 80.2   | 82.0   | 85.1   | 87.6 |      |      |      |      |       | 114.5 |
| DATE               | 200    | 74.3   | 73.1   | 74.1   | 75.4   | 77.1   | 79.6   | 80.4   | 82.1   | 83.5   | 84.6   | 86.8 |      |      |      |      |       | 115.7 |
| TIME               | 250    | 70.8   | 74.9   | 80.9   | 81.4   | 82.4   | 83.4   | 84.8   | 85.6   | 86.2   | 88.1   | 88.6 |      |      |      |      |       | 116.5 |
| BAR                | 315    | 80.0   | 79.4   | 79.6   | 80.4   | 80.6   | 81.7   | 81.8   | 82.4   | 83.7   | 85.8   | 87.1 |      |      |      |      |       | 116.5 |
| TAMB               | 400    | 74.1   | 77.9   | 77.4   | 77.9   | 78.4   | 79.4   | 81.6   | 81.1   | 82.7   | 84.8   | 86.1 |      |      |      |      |       | 115.1 |
| TACT               | 500    | 74.3   | 75.4   | 76.1   | 76.7   | 77.9   | 79.4   | 81.1   | 82.2   | 83.2   | 84.6   | 84.9 |      |      |      |      |       | 114.8 |
| NFA                | 630    | 74.9   | 76.9   | 78.1   | 78.7   | 80.9   | 82.7   | 84.1   | 84.9   | 84.7   | 85.6   | 84.6 |      |      |      |      |       | 116.7 |
| NFK                | 800    | 79.1   | 78.4   | 78.9   | 79.9   | 80.0   | 82.0   | 83.1   | 84.6   | 84.7   | 85.3   | 84.4 |      |      |      |      |       | 116.7 |
| NPD                | 1000   | 74.8   | 76.1   | 74.9   | 74.4   | 80.6   | 81.7   | 83.3   | 84.9   | 85.5   | 84.8   | 83.1 |      |      |      |      |       | 116.3 |
| NPT                | 1250   | 74.7   | 75.2   | 74.6   | 79.0   | 80.4   | 82.2   | 84.1   | 85.4   | 85.7   | 85.1   | 82.6 |      |      |      |      |       | 116.6 |
| NQA                | 1400   | 74.4   | 75.4   | 74.9   | 78.5   | 82.5   | 83.6   | 84.1   | 85.7   | 83.9   | 81.4   |      |      |      |      |      |       | 116.1 |
| NQB                | 2000   | 74.7   | 76.2   | 77.1   | 79.8   | 81.2   | 84.0   | 84.6   | 86.6   | 85.7   | 84.1   | 81.4 |      |      |      |      |       | 116.8 |
| NQC                | 2400   | 73.9   | 73.7   | 74.6   | 77.4   | 79.0   | 79.3   | 78.8   | 78.9   | 79.7   | 79.4   | 78.8 |      |      |      |      |       | 112.3 |
| NQD                | 3150   | 73.2   | 73.2   | 74.8   | 77.1   | 79.9   | 81.3   | 81.0   | 81.8   | 82.7   | 79.9   | 77.6 |      |      |      |      |       | 113.8 |
| NQE                | 4000   | 74.4   | 76.9   | 79.0   | 82.6   | 84.4   | 86.7   | 87.2   | 88.8   | 90.9   | 87.9   | 82.8 |      |      |      |      |       | 120.5 |
| NQF                | 5000   | 74.3   | 75.4   | 77.5   | 80.6   | 82.5   | 86.7   | 87.9   | 89.2   | 91.4   | 87.1   | 80.6 |      |      |      |      |       | 120.4 |
| NQG                | 6300   | 74.4   | 77.7   | 80.5   | 83.8   | 84.4   | 89.7   | 91.2   | 93.3   | 94.6   | 84.5   | 82.3 |      |      |      |      |       | 123.6 |
| NQH                | 8000   | 74.3   | 77.2   | 79.3   | 83.2   | 84.3   | 89.1   | 91.4   | 93.7   | 94.2   | 84.5   | 82.9 |      |      |      |      |       | 123.8 |
| NQI                | 10000  | 73.4   | 75.3   | 77.5   | 81.6   | 84.1   | 87.9   | 91.5   | 91.7   | 92.1   | 86.0   | 81.1 |      |      |      |      |       | 122.8 |
| NQJ                | 12500  | 73.3   | 74.5   | 76.2   | 79.4   | 82.3   | 84.4   | 87.6   | 91.1   | 91.6   | 85.1   | 79.8 |      |      |      |      |       | 120.9 |
| NQK                | 14000  | 71.4   | 74.5   | 75.3   | 78.8   | 82.2   | 84.4   | 87.9   | 90.9   | 90.6   | 84.9   | 79.7 |      |      |      |      |       | 120.9 |
| NQL                | 20000  | 70.9   | 75.1   | 75.0   | 79.2   | 82.1   | 84.9   | 87.9   | 91.0   | 91.3   | 85.2   | 79.5 |      |      |      |      |       | 121.6 |
| NQM                | 24000  | 71.5   | 76.2   | 76.4   | 80.1   | 83.2   | 84.4   | 84.3   | 91.8   | 92.1   | 86.3   | 80.3 |      |      |      |      |       | 123.1 |
| NQN                | 31500  | 70.7   | 76.2   | 76.6   | 80.7   | 83.6   | 84.3   | 84.6   | 90.6   | 90.3   | 85.4   | 77.9 |      |      |      |      |       | 123.2 |
| NQO                | 40000  | 64.9   | 73.7   | 73.9   | 77.9   | 80.9   | 83.4   | 86.1   | 87.2   | 87.1   | 82.4   | 73.1 |      |      |      |      |       | 121.6 |
| NQP                | 50000  | 67.9   | 68.2   | 71.0   | 73.5   | 74.1   | 79.2   | 82.1   | 82.2   | 82.1   | 74.1   | 68.3 |      |      |      |      |       | 118.8 |
| NQQ                | 63000  | 60.4   | 66.6   | 68.5   | 68.2   | 70.4   | 72.4   | 75.0   | 74.2   | 74.7   | 72.2   | 64.7 |      |      |      |      |       | 114.9 |
| NQR                | 80000  | 73.0   | 68.1   | 70.6   | 67.4   | 64.3   | 64.9   | 69.8   | 68.7   | 68.9   | 67.5   | 65.9 |      |      |      |      |       | 116.2 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |       |
| OVERALL CALCULATED | 90.2   | 95.5   | 91.7   | 84.0   | 84.3   | 98.7   | 100.6  | 102.6  | 103.2  | 99.9   | 98.4   |      |      |      |      |      |       | 134.1 |
| PN                 | 1.3    | 101.6  | 103.2  | 105.6  | 104.3  | 110.4  | 111.7  | 113.2  | 114.4  | 111.5  | 108.4  |      |      |      |      |      |       |       |

MODEL SOUND PRESSURE LEVELS (90. DEG. F., 70 PERCENT REL. HUM., DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | FREQ. | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.  | 0.  | 0.  | 0.  | 0.  |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|
|                    |       | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0. | (0. | (0. | (0. | (0. |
| SIDELINE 2ND. FT.  | 50    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
|                    | 63    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
|                    | 80    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
| VEHICLE            | 100   | 45.1   | 48.7   | 51.1   | 51.2   | 52.5   | 52.7   | 51.9   | 51.5   | 53.8   | 47.3   | 57.3   |     |     |     |     |     |
| CONFIG             | 125   | 52.8   | 54.1   | 53.2   | 43.4   | 44.5   | 55.4   | 46.1   | 54.0   | 56.9   | 47.4   | 56.4   |     |     |     |     |     |
| LOC                | 160   | 51.7   | 52.7   | 43.4   | 44.1   | 44.4   | 54.5   | 44.5   | 44.9   | 57.3   | 48.3   | 57.1   |     |     |     |     |     |
| DATE               | 200   | 50.3   | 50.1   | 51.8   | 43.5   | 44.3   | 57.9   | 47.9   | 58.8   | 56.7   | 49.6   | 57.9   |     |     |     |     |     |
| RUN                | 250   | 54.7   | 55.8   | 58.5   | 49.4   | 46.5   | 61.4   | 42.3   | 62.2   | 61.3   | 41.0   | 57.7   |     |     |     |     |     |
| TYPE               | 315   | 55.9   | 56.2   | 57.1   | 48.3   | 44.7   | 59.4   | 49.2   | 54.9   | 58.7   | 48.6   | 56.6   |     |     |     |     |     |
| BAR                | 400   | 53.8   | 54.6   | 54.8   | 45.7   | 44.4   | 47.2   | 47.9   | 57.5   | 57.6   | 47.4   | 54.8   |     |     |     |     |     |
|                    | 500   | 50.9   | 52.0   | 53.5   | 44.4   | 44.7   | 57.1   | 44.3   | 54.4   | 58.0   | 47.0   | 53.3   |     |     |     |     |     |
|                    | 630   | 52.3   | 53.4   | 55.4   | 46.3   | 44.7   | 60.3   | 61.2   | 61.0   | 59.4   | 47.8   | 52.8   |     |     |     |     |     |
|                    | 800   | 54.4   | 54.8   | 56.0   | 47.5   | 44.5   | 60.4   | 60.0   | 60.7   | 59.2   | 47.4   | 52.2   |     |     |     |     |     |
|                    | 1000  | 51.8   | 52.4   | 53.8   | 43.4   | 44.2   | 59.6   | 60.2   | 60.7   | 59.8   | 46.7   | 50.8   |     |     |     |     |     |
|                    | 1250  | 50.7   | 51.2   | 43.5   | 46.3   | 47.8   | 59.4   | 60.8   | 61.1   | 59.8   | 46.7   | 49.8   |     |     |     |     |     |
|                    | 1400  | 50.2   | 51.3   | 53.5   | 45.4   | 47.7   | 59.5   | 60.1   | 59.6   | 59.6   | 45.2   | 48.1   |     |     |     |     |     |
|                    | 2000  | 51.2   | 51.9   | 53.6   | 46.7   | 44.3   | 62.0   | 62.9   | 61.9   | 59.4   | 45.1   | 47.8   |     |     |     |     |     |
|                    | 2500  | 44.2   | 49.2   | 50.9   | 44.1   | 44.9   | 54.9   | 54.9   | 53.9   | 53.1   | 40.0   | 44.8   |     |     |     |     |     |
|                    | 3150  | 47.1   | 46.4   | 50.6   | 43.6   | 44.1   | 57.7   | 44.8   | 56.6   | 55.7   | 40.0   | 42.7   |     |     |     |     |     |
|                    | 4000  | 49.8   | 51.6   | 54.8   | 48.7   | 41.7   | 62.7   | 52.6   | 63.0   | 63.3   | 47.3   | 46.8   |     |     |     |     |     |
|                    | 5000  | 47.5   | 49.8   | 52.8   | 46.4   | 40.4   | 62.4   | 63.0   | 63.2   | 63.4   | 46.0   | 44.3   |     |     |     |     |     |
|                    | 6300  | 44.6   | 51.4   | 55.0   | 48.6   | 40.4   | 64.7   | 45.5   | 66.4   | 65.7   | 46.2   | 43.8   |     |     |     |     |     |
|                    | 8000  | 46.1   | 49.5   | 52.7   | 47.2   | 40.4   | 63.0   | 64.6   | 65.6   | 63.8   | 44.3   | 41.6   |     |     |     |     |     |
|                    | 10000 | 42.3   | 45.9   | 49.4   | 44.0   | 44.8   | 59.4   | 62.0   | 61.8   | 59.6   | 49.1   | 35.9   |     |     |     |     |     |
|                    | 12500 | 39.4   | 42.6   | 45.6   | 49.6   | 42.8   | 54.7   | 56.8   | 58.5   | 58.0   | 44.3   | 28.8   |     |     |     |     |     |
|                    | 14000 | 32.9   | 38.5   | 41.0   | 45.4   | 40.1   | 51.0   | 43.2   | 44.0   | 49.9   | 37.7   | 19.4   |     |     |     |     |     |
|                    | 20000 | 24.3   | 33.6   | 35.6   | 41.0   | 44.2   | 46.6   | 44.1   | 48.4   | 43.9   | 29.5   | 6.7    |     |     |     |     |     |
|                    | 25000 | 14.2   | 27.0   | 29.9   | 34.0   | 34.6   | 40.5   | 41.2   | 41.2   | 35.3   | 18.4   |        |     |     |     |     |     |
|                    | 31500 | 4.6    | 15.6   | 19.5   | 25.8   | 29.0   | 30.9   | 30.8   | 28.1   | 19.8   |        |        |     |     |     |     |     |
|                    | 40000 |        |        | 1.1    | 7.7    | 11.5   | 13.1   | 12.4   | 7.0    |        |        |        |     |     |     |     |     |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |
| OVERALL CALCULATED |       | 64.7   | 65.8   | 67.4   | 69.5   | 71.6   | 73.5   | 74.2   | 74.5   | 73.7   | 70.2   | 66.5   |     |     |     |     |     |
| PNDB               |       | 75.1   | 76.6   | 79.0   | 82.1   | 84.7   | 86.2   | 86.8   | 87.2   | 86.5   | 81.4   | 73.8   |     |     |     |     |     |

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|                           | ANGLE FROM INLET IN DEGREES (AND RADIAN)  |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
|---------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|-------|
|                           | 51.   | 62.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0.    | 0. | 0. | 0. | 0. | 0. | PaL   |
|                           | PRQ. (0.92)(1.08)(1.24)(1.41)(1.58)(1.74)(1.94)(2.13)(2.32)(2.52)(2.73)(0. 0. 0. 0. 0. 0. 0.) |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
| RADIAL 17. FT.            | 50  |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
|                           | 63  |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
|                           | 80  |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
| VEHICLE (S. H.)           | 100   | 69.5  | 71.1  | 72.6  | 72.9  | 73.1  | 74.2  | 74.1  | 75.2  | 79.0  | 83.8  | 87.6  |    |    |    |    |    | 112.6 |
| CONFIG 17                 | 125   | 74.8  | 76.9  | 76.1  | 75.4  | 74.4  | 77.9  | 78.6  | 79.7  | 81.7  | 84.3  | 86.9  |    |    |    |    |    | 114.2 |
| LOC SCHENECTADY           | 160   | 74.8  | 75.4  | 75.4  | 75.9  | 76.1  | 76.9  | 76.6  | 80.2  | 82.2  | 85.6  | 87.9  |    |    |    |    |    | 114.6 |
| DATE 12/11/74             | 200   | 73.8  | 72.9  | 74.1  | 75.7  | 77.4  | 79.0  | 80.1  | 82.1  | 83.5  | 86.6  | 89.1  |    |    |    |    |    | 115.8 |
| RUN 30/5                  | 250   | 79.8  | 78.6  | 80.4  | 81.4  | 82.4  | 83.9  | 84.3  | 85.9  | 86.5  | 88.1  | 89.3  |    |    |    |    |    | 116.6 |
| TAPE                      | 315   | 79.8  | 79.4  | 79.6  | 80.2  | 81.1  | 81.7  | 81.6  | 82.6  | 83.7  | 85.6  | 87.6  |    |    |    |    |    | 116.6 |
| BAR 29.8 HR               | 400   | 78.1  | 77.1  | 77.9  | 78.4  | 78.9  | 79.4  | 80.4  | 81.4  | 82.7  | 85.6  | 86.1  |    |    |    |    |    | 115.3 |
| (00534. N/M2)             | 500   | 74.1  | 75.4  | 75.6  | 76.7  | 77.4  | 79.4  | 81.1  | 82.4  | 83.2  | 85.1  | 84.6  |    |    |    |    |    | 114.9 |
| TAMB 45. DFC F            | 630   | 77.1  | 76.6  | 77.9  | 78.9  | 80.7  | 82.4  | 83.9  | 84.7  | 84.7  | 85.3  | 84.9  |    |    |    |    |    | 116.6 |
| (280. DEG H)              | 800   | 74.9  | 76.1  | 74.9  | 79.7  | 81.9  | 82.9  | 83.8  | 84.4  | 84.7  | 85.6  | 84.6  |    |    |    |    |    | 116.9 |
| THEY 40. DFC F            | 1000  | 74.4  | 76.4  | 76.6  | 76.7  | 80.6  | 81.9  | 83.1  | 84.1  | 85.7  | 85.3  | 83.1  |    |    |    |    |    | 116.3 |
| (278. DEG K)              | 1250  | 74.9  | 75.4  | 76.4  | 79.0  | 80.7  | 82.9  | 84.6  | 84.6  | 86.0  | 84.9  | 82.9  |    |    |    |    |    | 116.5 |
| MACT 4.06 CM/M3           | 1400  | 75.2  | 74.9  | 76.9  | 79.3  | 81.0  | 82.2  | 83.4  | 84.1  | 85.0  | 83.9  | 81.1  |    |    |    |    |    | 116.1 |
| (00508. KC/M3)            | 2000  | 77.2  | 76.5  | 74.9  | 79.4  | 82.7  | 86.0  | 87.1  | 88.1  | 86.7  | 84.4  | 81.0  |    |    |    |    |    | 119.2 |
| NFA 7890. RPM             | 2500  | 73.7  | 73.2  | 74.9  | 77.4  | 78.4  | 79.1  | 79.1  | 78.6  | 80.0  | 79.9  | 78.8  |    |    |    |    |    | 112.3 |
| ( 23. RAD/SEC)            | 3150  | 73.4  | 73.5  | 74.6  | 77.4  | 79.5  | 81.1  | 80.8  | 81.3  | 83.0  | 80.4  | 77.6  |    |    |    |    |    | 113.8 |
| NPK 7907. RPM             | 4000  | 74.1  | 76.7  | 76.3  | 82.4  | 84.5  | 87.9  | 87.2  | 89.5  | 91.7  | 87.9  | 83.3  |    |    |    |    |    | 120.9 |
| ( 34. RAD/SEC)            | 5000  | 74.8  | 75.7  | 77.7  | 80.8  | 83.7  | 84.4  | 87.4  | 89.4  | 91.6  | 87.3  | 81.7  |    |    |    |    |    | 120.5 |
| NPD 8823. RPM             | 6300  | 76.1  | 77.5  | 80.7  | 84.9  | 88.6  | 90.9  | 91.7  | 93.0  | 94.6  | 89.0  | 83.0  |    |    |    |    |    | 123.8 |
| ( 92.4. RAD/SEC)          | 8000  | 74.5  | 77.4  | 79.5  | 83.5  | 84.3  | 88.4  | 91.9  | 93.5  | 94.5  | 89.2  | 83.1  |    |    |    |    |    | 123.9 |
| NO. OF BLADES 15          | 10000   | 74.1  | 75.8  | 77.8  | 81.8  | 84.4  | 87.4  | 91.2  | 92.2  | 92.1  | 86.0  | 81.3  |    |    |    |    |    | 122.4 |
| FAN TIP SPEED 686. FT/SEC | 12500   | 72.8  | 75.0  | 76.7  | 79.6  | 82.3  | 84.8  | 87.6  | 91.3  | 91.6  | 85.9  | 80.0  |    |    |    |    |    | 121.1 |
|                           | 14000   | 71.4  | 75.0  | 75.3  | 78.8  | 82.7  | 85.8  | 87.9  | 90.9  | 91.1  | 84.9  | 79.5  |    |    |    |    |    | 121.1 |
|                           | 20000   | 71.7  | 75.6  | 75.8  | 79.0  | 82.6  | 85.9  | 87.6  | 91.2  | 91.5  | 85.0  | 79.2  |    |    |    |    |    | 121.8 |
|                           | 25000   | 71.5  | 76.9  | 76.7  | 80.3  | 84.7  | 86.3  | 88.5  | 91.8  | 92.1  | 85.8  | 80.3  |    |    |    |    |    | 123.2 |
|                           | 31500   | 71.2  | 77.2  | 77.1  | 80.7  | 84.6  | 86.3  | 88.4  | 90.4  | 90.6  | 84.9  | 78.2  |    |    |    |    |    | 123.3 |
|                           | 40000   | 72.1  | 75.5  | 74.6  | 77.4  | 80.6  | 83.3  | 86.1  | 87.2  | 87.4  | 82.1  | 73.1  |    |    |    |    |    | 121.6 |
|                           | 50000   | 71.9  | 75.0  | 71.0  | 73.0  | 74.6  | 79.2  | 81.6  | 82.0  | 82.3  | 78.1  | 68.5  |    |    |    |    |    | 118.9 |
|                           | 63000   | 69.1  | 70.3  | 68.3  | 68.8  | 70.2  | 72.8  | 75.0  | 74.7  | 75.5  | 71.9  | 64.5  |    |    |    |    |    | 115.2 |
|                           | 80000   | 73.0  | 69.6  | 70.6  | 67.8  | 68.3  | 68.8  | 69.6  | 68.9  | 68.9  | 67.8  | 65.9  |    |    |    |    |    | 116.3 |
| OVERALL MEASURED          |   |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
| OVERALL CALCULATED        |   | 90.3  | 86.7  | 91.7  | 84.9  | 86.4  | 98.9  | 100.6 | 102.6 | 103.5 | 106.1 | 98.7  |    |    |    |    |    | 134.2 |
| PND8                      |   | 101.3 | 101.5 | 103.1 | 106.0 | 104.3 | 110.6 | 112.0 | 113.1 | 114.5 | 111.6 | 108.7 |    |    |    |    |    |       |

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MODEL SHOWN PRESSURE LEVELS (50. DEG. F., 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | PRND. | 51.<br>(0.92) | 69.<br>(1.21) | 71.<br>(1.24) | 81.<br>(1.41) | 91.<br>(1.58) | 101.<br>(1.75) | 111.<br>(1.92) | 129.<br>(2.13) | 133.<br>(2.32) | 145.<br>(2.52) | 156.<br>(2.73) | 0.<br>(0.) | 0.<br>(0.) | 0.<br>(0.) | 0.<br>(0.) | 0.<br>(0.) | 0.<br>(0.) |
|--------------------|-------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|------------|------------|------------|------------|------------|------------|
| SIDELINE 200. FT.  | 50    |               |               |               |               |               |                |                |                |                |                |                |            |            |            |            |            |            |
| ( 60.04 MI         | 63    |               |               |               |               |               |                |                |                |                |                |                |            |            |            |            |            |            |
| VEHICLE R-45       | 100   | 45.9          | 48.4          | 50.6          | 41.2          | 41.5          | 42.4           | 41.9           | 52.1           | 54.5           | 47.3           | 57.3           |            |            |            |            |            |            |
| CONFIG 17          | 125   | 53.0          | 54.1          | 54.0          | 43.4          | 44.7          | 45.3           | 46.3           | 56.5           | 57.2           | 47.7           | 56.6           |            |            |            |            |            |            |
| LOC SCENECTADY     | 160   | 51.9          | 52.5          | 53.2          | 44.1          | 44.4          | 44.3           | 46.2           | 56.9           | 57.6           | 48.8           | 57.4           |            |            |            |            |            |            |
| DATE 12/11/74      | 200   | 40.8          | 49.9          | 51.8          | 43.7          | 44.4          | 47.0           | 47.7           | 58.8           | 58.7           | 49.8           | 58.4           |            |            |            |            |            |            |
| RUN 38/5           | 250   | 54.7          | 55.5          | 58.0          | 40.4          | 40.5          | 41.4           | 41.8           | 42.5           | 61.4           | 41.0           | 58.5           |            |            |            |            |            |            |
| TYPE               | 315   | 54.8          | 56.2          | 57.1          | 48.1          | 48.2          | 49.4           | 49.0           | 59.1           | 58.7           | 48.3           | 56.5           |            |            |            |            |            |            |
| BAR 20.8 MC        | 400   | 53.8          | 43.9          | 55.3          | 48.2          | 48.8          | 47.2           | 47.6           | 57.8           | 57.6           | 48.2           | 54.8           |            |            |            |            |            |            |
| (0.534. M/M2)      | 500   | 51.7          | 52.0          | 53.0          | 44.4          | 44.9          | 47.1           | 44.3           | 58.7           | 58.0           | 47.5           | 53.0           |            |            |            |            |            |            |
| TAMB 45. DFC F     | 630   | 52.6          | 53.2          | 54.1          | 48.4          | 48.4          | 48.0           | 48.9           | 60.4           | 59.4           | 47.6           | 53.0           |            |            |            |            |            |            |
| (28. DFC KI        | 800   | 54.2          | 54.5          | 56.0          | 47.9          | 48.5          | 48.4           | 48.8           | 60.4           | 59.2           | 47.6           | 52.5           |            |            |            |            |            |            |
| TMET 48. DFC F     | 1000  | 51.8          | 52.6          | 53.6          | 48.1          | 48.2          | 48.1           | 49.9           | 60.0           | 60.0           | 47.2           | 50.6           |            |            |            |            |            |            |
| (27. DFC M)        | 1250  | 50.9          | 51.5          | 53.2          | 48.3          | 48.1          | 48.4           | 48.5           | 60.3           | 60.1           | 48.4           | 50.0           |            |            |            |            |            |            |
| MACT 4.06 GM/M3    | 1500  | 49.9          | 48.8          | 53.5          | 48.4          | 48.2          | 49.4           | 48.3           | 59.4           | 58.9           | 45.2           | 47.8           |            |            |            |            |            |            |
| (.00504 KC/M3)     | 2000  | 51.7          | 52.1          | 53.3          | 48.5          | 48.4          | 48.9           | 48.4           | 61.4           | 60.4           | 45.3           | 48.1           |            |            |            |            |            |            |
| NPA 7840. RPM      | 2500  | 48.0          | 48.7          | 51.1          | 44.1          | 44.6          | 45.0           | 44.2           | 53.7           | 53.4           | 40.5           | 44.6           |            |            |            |            |            |            |
| ( 823. RAD/SEC)    | 3150  | 47.4          | 48.6          | 50.6          | 43.8          | 44.1          | 47.7           | 48.6           | 56.1           | 56.0           | 40.5           | 42.9           |            |            |            |            |            |            |
| NPK 7847. RPM      | 4000  | 48.6          | 51.4          | 53.8          | 48.7          | 41.7          | 63.7           | 42.4           | 63.8           | 64.1           | 47.3           | 47.3           |            |            |            |            |            |            |
| ( 834. RAD/SEC)    | 5000  | 48.0          | 50.1          | 53.0          | 48.4          | 48.7          | 48.9           | 48.8           | 63.4           | 63.7           | 48.3           | 45.1           |            |            |            |            |            |            |
| NPD 8823. RPM      | 6300  | 48.4          | 51.1          | 55.2          | 48.3          | 48.8          | 48.2           | 48.0           | 46.1           | 65.7           | 45.7           | 44.6           |            |            |            |            |            |            |
| ( 924. RAD/SEC)    | 8000  | 46.4          | 48.8          | 52.9          | 47.5          | 48.4          | 48.8           | 45.1           | 65.3           | 64.1           | 45.0           | 41.9           |            |            |            |            |            |            |
| NO. OF PLADPS 15   | 10000 | 43.0          | 46.4          | 49.6          | 44.3          | 47.8          | 48.8           | 42.8           | 62.3           | 59.6           | 49.1           | 36.1           |            |            |            |            |            |            |
| PAN TIP SPEED      | 12500 | 38.9          | 43.1          | 46.1          | 49.8          | 45.8          | 48.4           | 48.4           | 58.7           | 58.0           | 45.0           | 29.1           |            |            |            |            |            |            |
| 886. FT/SEC        | 16000 | 32.9          | 39.0          | 41.0          | 45.4          | 48.8          | 51.4           | 53.2           | 54.0           | 58.4           | 37.7           | 19.1           |            |            |            |            |            |            |
|                    | 20000 | 27.1          | 34.1          | 36.4          | 40.7          | 44.7          | 46.4           | 47.8           | 48.7           | 44.2           | 28.2           | 8.5            |            |            |            |            |            |            |
|                    | 25000 | 18.2          | 27.7          | 30.2          | 35.2          | 38.1          | 41.8           | 41.4           | 41.2           | 35.3           | 17.9           |                |            |            |            |            |            |            |
|                    | 31500 | 9.1           | 18.8          | 20.8          | 25.5          | 28.8          | 30.8           | 31.0           | 27.9           | 20.0           |                |                |            |            |            |            |            |            |
|                    | 40000 |               |               | 1.8           | 7.5           | 11.3          | 12.8           | 12.4           | 7.0            |                |                |                |            |            |            |            |            |            |
|                    | 50000 |               |               |               |               |               |                |                |                |                |                |                |            |            |            |            |            |            |
|                    | 43000 |               |               |               |               |               |                |                |                |                |                |                |            |            |            |            |            |            |
|                    | 80000 |               |               |               |               |               |                |                |                |                |                |                |            |            |            |            |            |            |
| OVERALL CALCULATED |       | 64.8          | 65.5          | 67.3          | 69.7          | 71.7          | 73.6           | 74.4           | 74.5           | 73.9           | 70.3           | 66.8           |            |            |            |            |            |            |
| PNDB               |       | 74.1          | 76.5          | 78.7          | 82.3          | 84.7          | 86.4           | 87.1           | 87.1           | 86.8           | 81.8           | 73.9           |            |            |            |            |            |            |

|                             | RPM   | ANGLE FROM INLET IN DEGREES (AND RAD(ANS)) |        |        |        |        |        |        |        |        |        |        |       |        |         |        |        | PWL |
|-----------------------------|-------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|---------|--------|--------|-----|
|                             |       | 33.0                                       | 59.0   | 71.0   | 81.0   | 91.0   | 101.0  | 111.0  | 122.0  | 133.0  | 145.0  | 156.0  | 0.0   | 0.0    | 0.0     | 0.0    | 0.0    |     |
|                             |       | (0.58)                                     | (1.03) | (1.24) | (1.41) | (1.59) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.0) | (10.0) | (110.0) | (10.0) | (10.0) |     |
|                             | 50    |  |        |        |        |        |        |        |        |        |        |        |       |        |         |        |        |     |
|                             | 63    |  |        |        |        |        |        |        |        |        |        |        |       |        |         |        |        |     |
| RADIAL 17. FT.              | 80    |  |        |        |        |        |        |        |        |        |        |        |       |        |         |        |        |     |
| VEHICLE                     | 100   | 74.7                                       | 77.7   | 81.7   | 83.4   | 84.9   | 82.4   | 80.0   | 74.5   | 70.2   | 74.8   | 77.2   |       |        |         |        | 114.6  |     |
| CONPIC                      | 125   | 69.0                                       | 66.2   | 69.7   | 67.4   | 71.6   | 64.1   | 66.0   | 70.2   | 71.5   | 72.3   | 74.0   |       |        |         |        | 104.3  |     |
| LOC SCHENECTADY             | 160   | 64.2                                       | 65.9   | 66.4   | 64.4   | 67.4   | 66.4   | 64.0   | 69.5   | 71.2   | 73.0   | 74.0   |       |        |         |        | 103.4  |     |
| DATE 12/11/74               | 200   | 64.7                                       | 64.4   | 65.9   | 66.7   | 64.1   | 69.4   | 70.8   | 73.0   | 73.4   | 75.3   | 76.9   |       |        |         |        | 105.3  |     |
| RUN 36/A                    | 250   | 68.2                                       | 68.4   | 69.6   | 70.4   | 71.1   | 71.8   | 72.5   | 72.7   | 73.2   | 74.8   | 75.1   |       |        |         |        | 106.0  |     |
| TAP                         | 315   | 70.2                                       | 69.7   | 70.4   | 70.7   | 71.4   | 71.6   | 72.0   | 71.7   | 72.7   | 73.5   | 74.9   |       |        |         |        | 105.0  |     |
| RAE 29.8 HG                 | 470   | 64.3                                       | 65.7   | 66.6   | 69.4   | 69.1   | 70.1   | 71.0   | 71.7   | 72.7   | 74.0   | 74.4   |       |        |         |        | 105.1  |     |
| (00534. N/M <sup>2</sup> )  | 500   | 66.3                                       | 66.2   | 66.4   | 67.9   | 69.1   | 70.2   | 71.0   | 73.2   | 73.7   | 74.0   | 73.7   |       |        |         |        | 109.1  |     |
| TAMB 45. DFG F              | 630   | 69.1                                       | 68.7   | 69.7   | 71.2   | 72.7   | 74.4   | 76.3   | 76.4   | 77.0   | 76.0   | 74.4   |       |        |         |        | 109.3  |     |
| (270. DFG K)                | 800   | 71.1                                       | 69.9   | 70.1   | 72.2   | 74.4   | 75.9   | 75.8   | 76.5   | 77.2   | 77.3   | 74.2   |       |        |         |        | 106.8  |     |
| THEY 40. DFG F              | 1000  | 64.1                                       | 67.9   | 68.1   | 70.9   | 73.4   | 74.4   | 74.5   | 77.7   | 79.4   | 78.8   | 73.6   |       |        |         |        | 109.4  |     |
| (270. DFG K)                | 1250  | 72.1                                       | 71.2   | 75.1   | 78.7   | 78.9   | 81.4   | 83.7   | 85.5   | 85.2   | 85.8   | 79.9   |       |        |         |        | 116.2  |     |
| MACT 5.06 CM/M <sup>3</sup> | 1400  | 64.8                                       | 68.7   | 72.1   | 75.3   | 74.7   | 78.4   | 80.2   | 81.2   | 81.2   | 82.3   | 76.2   |       |        |         |        | 112.5  |     |
| (00506. CM/M <sup>3</sup> ) | 2000  | 64.9                                       | 65.3   | 66.9   | 68.6   | 70.5   | 72.2   | 73.5   | 73.0   | 73.0   | 73.8   | 69.9   |       |        |         |        | 105.4  |     |
| NPA 410. RPM                | 2500  | 63.4                                       | 64.3   | 65.4   | 67.6   | 70.5   | 72.2   | 72.0   | 74.7   | 73.0   | 71.1   | 67.4   |       |        |         |        | 124.2  |     |
| (477. RAD/SEC)              | 3150  | 61.3                                       | 61.5   | 65.6   | 67.9   | 71.0   | 74.0   | 74.9   | 74.4   | 76.5   | 75.8   | 69.4   |       |        |         |        | 106.8  |     |
| NFR 5495. RPM               | 4000  | 66.5                                       | 68.2   | 69.3   | 71.9   | 74.2   | 77.7   | 79.1   | 80.1   | 83.1   | 82.0   | 75.8   |       |        |         |        | 112.3  |     |
| (485. RAD/SEC)              | 5000  | 64.3                                       | 66.7   | 68.2   | 71.4   | 74.5   | 77.0   | 79.8   | 81.3   | 83.8   | 81.2   | 74.7   |       |        |         |        | 112.7  |     |
| NPD 8233. RPM               | 6300  | 64.8                                       | 64.0   | 69.5   | 72.2   | 74.1   | 74.4   | 81.1   | 83.3   | 84.4   | 81.7   | 75.6   |       |        |         |        | 113.7  |     |
| (624. RAD/SEC)              | 8000  | 64.7                                       | 67.0   | 68.3   | 72.0   | 74.0   | 74.1   | 80.6   | 82.8   | 84.2   | 81.1   | 75.2   |       |        |         |        | 113.4  |     |
| NO. OF BLADPS 1g            | 10000 | 63.0                                       | 64.8   | 64.1   | 69.4   | 72.4   | 74.2   | 74.4   | 81.1   | 82.6   | 77.4   | 72.4   |       |        |         |        | 111.5  |     |
| FW TIP SPEED                | 12500 | 63.5                                       | 64.8   | 64.7   | 69.1   | 72.0   | 74.8   | 74.0   | 80.4   | 83.0   | 78.3   | 72.8   |       |        |         |        | 111.6  |     |
| 481. FT/SEC                 | 16000 | 62.1                                       | 65.0   | 64.1   | 67.8   | 71.0   | 74.5   | 76.8   | 80.7   | 81.8   | 77.4   | 72.0   |       |        |         |        | 111.2  |     |
|                             | 20000 | 61.4                                       | 64.9   | 64.3   | 64.7   | 71.9   | 74.9   | 77.0   | 79.4   | 82.5   | 76.4   | 70.5   |       |        |         |        | 111.7  |     |
|                             | 25000 | 62.0                                       | 67.0   | 64.0   | 69.3   | 72.2   | 75.9   | 74.9   | 79.7   | 81.1   | 76.0   | 69.4   |       |        |         |        | 111.8  |     |
|                             | 31500 | 60.6                                       | 67.5   | 64.1   | 68.7   | 72.3   | 75.4   | 77.2   | 79.5   | 80.5   | 75.8   | 68.2   |       |        |         |        | 112.6  |     |
|                             | 40000 | 60.0                                       | 67.3   | 61.4   | 65.9   | 68.9   | 72.0   | 74.0   | 75.3   | 76.6   | 73.0   | 63.1   |       |        |         |        | 110.4  |     |
|                             | 50000 | 61.3                                       | 67.0   | 61.0   | 65.2   | 68.4   | 67.8   | 69.5   | 69.8   | 71.3   | 68.8   | 59.8   |       |        |         |        | 108.0  |     |
|                             | 63000 | 63.0                                       | 66.6   | 68.5   | 65.7   | 64.7   | 61.4   | 63.7   | 63.1   | 64.4   | 62.9   | 56.8   |       |        |         |        | 106.9  |     |
|                             | 80000 | 63.9                                       | 64.4   | 61.4   | 67.5   | 64.0   | 59.3   | 59.5   | 59.0   | 59.1   | 48.2   | 56.7   |       |        |         |        | 110.4  |     |
| OVERALL MEASURED            |       |  |        |        |        |        |        |        |        |        |        |        |       |        |         |        |        |     |
| OVERALL CALCULATED          |       | 82.6                                       | 83.3   | 85.3   | 87.5   | 88.8   | 90.4   | 91.8   | 93.3   | 94.6   | 92.8   | 88.7   |       |        |         |        | 125.4  |     |
| PND8                        |       | 99.3                                       | 93.0   | 94.8   | 96.8   | 99.2   | 101.4  | 102.8  | 104.2  | 105.7  | 104.7  | 99.9   |       |        |         |        |        |     |

MODEL SHOWN PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                           | 50.    | 60.    | 70.    | 80.    | 90.    | 100.   | 110.   | 120.   | 130.   | 140.   | 150.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|
| PRC.                      | (0.87) | (1.05) | (1.24) | (1.41) | (1.57) | (1.74) | (1.90) | (2.07) | (2.24) | (2.41) | (2.58) | (0.) | (0.) | (0.) | (0.) | (0.) |
| SIDELINE 200. FT.         | 50     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
| ( 00.00 M)                | 63     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
| VEHICLE 8495              | 100    | 53.0   | 55.0   | 59.6   | 61.7   | 62.0   | 60.0   | 47.0   | 51.4   | 49.8   | 49.2   | 47.1 |      |      |      |      |
| CONFIC 17                 | 125    | 44.2   | 43.4   | 47.5   | 45.4   | 50.0   | 46.3   | 45.7   | 47.1   | 46.9   | 45.6   | 44.7 |      |      |      |      |
| LOC SCHEMECTADV           | 200    | 42.4   | 43.0   | 44.2   | 44.4   | 44.6   | 44.4   | 45.7   | 46.3   | 46.6   | 46.2   | 44.4 |      |      |      |      |
| DATE 12/11/74             | 250    | 40.0   | 41.4   | 43.6   | 44.7   | 44.3   | 47.4   | 44.3   | 49.7   | 46.7   | 46.3   | 46.9 |      |      |      |      |
| RUN 36/A                  | 315    | 44.1   | 45.3   | 47.2   | 46.4   | 46.2   | 49.4   | 49.0   | 49.3   | 48.3   | 47.4   | 44.3 |      |      |      |      |
| TABE                      | 400    | 44.1   | 46.5   | 47.9   | 44.6   | 46.4   | 49.4   | 49.4   | 49.2   | 47.7   | 46.3   | 43.8 |      |      |      |      |
| BAR 20.9 MC               | 500    | 44.0   | 45.4   | 44.1   | 47.2   | 47.1   | 47.0   | 48.3   | 48.1   | 47.6   | 46.6   | 43.1 |      |      |      |      |
| (100% 14. M/M2)           | 630    | 41.0   | 42.8   | 43.7   | 45.7   | 47.0   | 47.0   | 44.9   | 49.5   | 48.5   | 46.4   | 42.1 |      |      |      |      |
| TAMB 45. DFC F            | 800    | 44.5   | 45.2   | 44.0   | 46.8   | 46.4   | 49.0   | 43.3   | 42.6   | 51.4   | 44.3   | 42.6 |      |      |      |      |
| (200. DFC M)              | 1000   | 44.4   | 44.3   | 47.2   | 49.7   | 49.0   | 49.7   | 49.5   | 51.7   | 49.3   | 42.9   |      |      |      |      |      |
| TMET 40. DFC F            | 1250   | 43.1   | 44.2   | 45.1   | 46.3   | 46.0   | 51.4   | 43.3   | 43.6   | 43.7   | 40.6   | 41.2 |      |      |      |      |
| (270. DFC M)              | 1400   | 47.1   | 47.3   | 42.0   | 46.0   | 44.3   | 48.7   | 40.4   | 61.2   | 49.3   | 47.4   | 47.1 |      |      |      |      |
| WACT 5.06 G/M3            | 2000   | 43.6   | 44.6   | 44.8   | 42.4   | 49.0   | 44.7   | 46.7   | 45.1   | 43.6   | 42.9   |      |      |      |      |      |
| (1.00506 KG/M3)           | 2500   | 39.4   | 41.9   | 43.3   | 45.5   | 47.5   | 49.1   | 49.8   | 44.2   | 46.6   | 44.6   | 36.2 |      |      |      |      |
| NFA 4510. RPM             | 3150   | 34.2   | 39.8   | 41.7   | 44.3   | 44.0   | 44.0   | 48.1   | 45.8   | 46.4   | 41.7   | 33.2 |      |      |      |      |
| ( 877. RAD/SEC)           | 4000   | 37.3   | 38.7   | 41.6   | 44.3   | 47.6   | 49.4   | 49.8   | 49.2   | 49.5   | 46.0   | 34.5 |      |      |      |      |
| NPK 5500. RPM             | 5000   | 40.0   | 42.0   | 44.8   | 47.9   | 41.4   | 43.7   | 44.5   | 44.3   | 45.6   | 41.4   | 39.6 |      |      |      |      |
| ( 500. RAD/SEC)           | 6100   | 39.4   | 41.1   | 43.5   | 47.4   | 40.4   | 43.4   | 44.9   | 45.2   | 45.9   | 40.2   | 36.1 |      |      |      |      |
| NPD 4023. RPM             | 8000   | 39.1   | 41.7   | 44.0   | 47.3   | 40.3   | 43.4   | 45.4   | 46.5   | 45.4   | 49.4   | 37.1 |      |      |      |      |
| ( 424. RAD/SEC)           | 10000  | 34.6   | 39.3   | 41.7   | 46.0   | 49.2   | 42.0   | 43.8   | 44.7   | 43.8   | 44.9   | 33.9 |      |      |      |      |
| NO. OF BLADES 15          | 12500  | 32.0   | 35.5   | 37.9   | 42.0   | 44.9   | 48.4   | 40.2   | 51.1   | 50.1   | 40.5   | 27.2 |      |      |      |      |
| PAN TIP SPEED 481. FT/SEC | 20000  | 20.6   | 22.9   | 24.1   | 29.3   | 29.5   | 45.0   | 47.2   | 47.6   | 47.4   | 37.5   | 21.9 |      |      |      |      |
|                           | 31500  | 23.6   | 29.0   | 29.7   | 34.4   | 37.9   | 41.0   | 42.1   | 43.8   | 41.2   | 30.1   | 11.7 |      |      |      |      |
|                           | 40000  | 14.7   | 23.4   | 24.9   | 30.8   | 34.0   | 36.6   | 37.2   | 37.3   | 35.2   | 20.7   |      |      |      |      |      |
|                           | 50000  | 8.7    | 17.6   | 17.4   | 24.2   | 27.6   | 29.6   | 29.0   | 24.3   | 24.3   | 6.1    |      |      |      |      |      |
|                           | 63000  |        | 6.9    | 7.0    | 13.5   | 17.8   | 20.2   | 19.4   | 17.0   | 9.8    |        |      |      |      |      |      |
|                           | 80000  |        |        |        |        |        | 1.4    | 0.3    |        |        |        |      |      |      |      |      |
| OVERALL CALCULATED        |        | 57.7   | 58.0   | 62.3   | 44.7   | 44.7   | 66.4   | 66.9   | 66.6   | 65.9   | 62.8   | 55.9 |      |      |      |      |
| PNOB                      |        | 65.6   | 67.6   | 70.1   | 73.0   | 74.5   | 77.4   | 76.3   | 78.3   | 76.3   | 74.6   | 64.6 |      |      |      |      |

BAC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PREESSURE LEVELS (59. DFC. P. 70 PERCENT REL. HUM. TAV)

PROC. DATE - MON, M 11 DAY 25 MO. 10, 6

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ. 53. 62. 71. 81. 91. 101. 111. 122. 133. 145. 156. 0. 0. 0. 0. 0. 0. 0. PNL  
 (10.92)(11.08)(11.24)(11.41)(11.59)(11.76)(11.94)(12.13)(12.32)(12.52)(12.73)(0. 0. 0. 0. 0. 0. 0. )

|                    | 53.   | 62.  | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0.    | 0. | 0. | 0. | 0. | 0. | PNL   |
|--------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|-------|
| RADIAL 17. FT.     | 50    |      |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
| 1 S. M             | 63    |      |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
| VEHICLE            | 100   | 73.0 | 76.6  | 80.1  | 81.9  | 82.4  | 81.4  | 79.4  | 73.2  | 70.2  | 74.5  | 77.4  |    |    |    |    |    |       |
| CONFIG R-SS        | 125   | 67.5 | 68.4  | 71.9  | 69.4  | 69.4  | 67.9  | 68.9  | 70.9  | 72.2  | 73.1  | 75.6  |    |    |    |    |    | 113.3 |
| LCC SCHEMECTADY    | 180   | 64.5 | 66.6  | 66.6  | 66.9  | 67.7  | 67.9  | 69.9  | 70.4  | 72.5  | 74.3  | 76.1  |    |    |    |    |    | 104.9 |
| DATE 11/22/74      | 200   | 65.6 | 66.9  | 67.9  | 67.7  | 69.6  | 70.9  | 71.9  | 72.9  | 73.7  | 75.8  | 77.6  |    |    |    |    |    | 104.4 |
| RUN 23/1           | 250   | 64.5 | 68.6  | 69.4  | 68.9  | 70.4  | 70.1  | 72.3  | 72.6  | 73.5  | 74.9  | 75.6  |    |    |    |    |    | 106.1 |
| TAPE               | 315   | 68.3 | 71.1  | 71.1  | 71.2  | 71.9  | 71.9  | 72.6  | 72.8  | 73.5  | 75.3  | 75.6  |    |    |    |    |    | 105.8 |
| BAR 20.8 HG        | 400   | 67.1 | 69.9  | 69.4  | 69.7  | 70.6  | 70.9  | 72.4  | 72.9  | 73.0  | 74.3  | 74.6  |    |    |    |    |    | 106.6 |
| (100534. N/M2)     | 500   | 66.3 | 68.1  | 67.9  | 68.4  | 70.4  | 71.2  | 73.1  | 73.9  | 74.2  | 74.8  | 74.1  |    |    |    |    |    | 105.8 |
| TAMB 40. DEG F     | 630   | 69.1 | 69.6  | 70.9  | 72.4  | 73.4  | 75.2  | 77.1  | 76.9  | 77.5  | 77.6  | 75.4  |    |    |    |    |    | 106.6 |
| (278. DEG K)       | 800   | 72.4 | 71.4  | 72.6  | 72.7  | 74.6  | 75.7  | 77.3  | 78.1  | 78.2  | 78.6  | 75.1  |    |    |    |    |    | 109.1 |
| TWET 36. DEG F     | 1000  | 67.9 | 70.1  | 70.4  | 73.2  | 74.6  | 76.7  | 78.6  | 79.9  | 80.5  | 80.6  | 74.4  |    |    |    |    |    | 110.0 |
| (275. DEG K)       | 1250  | 77.7 | 78.2  | 78.1  | 81.3  | 83.7  | 86.0  | 88.1  | 87.4  | 86.7  | 87.9  | 81.1  |    |    |    |    |    | 111.1 |
| NACT 4.45 CM/M3    | 1900  | 74.2 | 75.7  | 77.1  | 79.0  | 82.2  | 83.5  | 85.6  | 84.9  | 85.0  | 84.9  | 78.4  |    |    |    |    |    | 110.1 |
| (100445 KG/M3)     | 2000  | 74.7 | 76.2  | 77.9  | 80.3  | 82.5  | 84.3  | 85.3  | 85.1  | 84.7  | 83.9  | 79.1  |    |    |    |    |    | 110.9 |
| NFA 546A. RPM      | 2500  | 76.2 | 78.5  | 79.9  | 82.1  | 84.8  | 87.5  | 88.8  | 88.9  | 92.0  | 89.7  | 83.3  |    |    |    |    |    | 116.9 |
| (572. RAD/SEC)     | 3150  | 73.9 | 76.7  | 78.1  | 80.9  | 84.3  | 86.3  | 88.3  | 87.8  | 89.2  | 87.4  | 81.3  |    |    |    |    |    | 121.2 |
| NFK 5571. RPM      | 4000  | 72.6 | 76.0  | 77.3  | 80.6  | 84.3  | 85.7  | 88.5  | 89.3  | 89.9  | 86.9  | 81.0  |    |    |    |    |    | 119.7 |
| (563. RAD/SEC)     | 5000  | 71.1 | 73.9  | 75.8  | 79.1  | 82.5  | 85.4  | 87.2  | 87.5  | 88.1  | 85.6  | 79.0  |    |    |    |    |    | 120.0 |
| NFD 8823. RPM      | 6300  | 69.4 | 72.5  | 74.5  | 78.3  | 81.4  | 83.7  | 86.2  | 87.0  | 87.4  | 84.3  | 78.3  |    |    |    |    |    | 118.6 |
| (924. RAD/SEC)     | 8000  | 67.3 | 71.2  | 72.4  | 76.8  | 79.8  | 82.4  | 84.7  | 85.3  | 86.5  | 83.7  | 77.4  |    |    |    |    |    | 117.7 |
| NO. OF BLADES 15   | 10000 | 66.9 | 70.8  | 71.8  | 76.3  | 79.6  | 81.5  | 83.8  | 85.0  | 86.6  | 83.3  | 78.3  |    |    |    |    |    | 116.5 |
| FAN TIP SPEED      | 12500 | 67.4 | 69.8  | 70.2  | 74.4  | 78.3  | 79.9  | 82.9  | 84.6  | 85.9  | 82.2  | 77.8  |    |    |    |    |    | 116.3 |
| 477. FT/SEC        | 16000 | 64.7 | 67.5  | 67.4  | 72.3  | 74.8  | 77.3  | 80.5  | 83.2  | 83.6  | 79.7  | 76.0  |    |    |    |    |    | 115.6 |
|                    | 20000 | 65.7 | 67.4  | 67.1  | 71.5  | 74.1  | 76.7  | 79.7  | 82.5  | 84.8  | 80.0  | 74.6  |    |    |    |    |    | 113.8 |
|                    | 25000 | 67.7 | 68.8  | 68.4  | 70.4  | 72.1  | 74.7  | 77.9  | 79.7  | 81.0  | 77.4  | 71.7  |    |    |    |    |    | 114.2 |
|                    | 31500 | 68.2 | 68.7  | 65.7  | 69.5  | 71.1  | 74.4  | 76.9  | 79.2  | 80.4  | 76.5  | 69.6  |    |    |    |    |    | 112.2 |
|                    | 40000 | 69.0 | 69.4  | 65.5  | 69.0  | 69.0  | 71.2  | 74.6  | 75.9  | 77.4  | 73.8  | 66.0  |    |    |    |    |    | 112.4 |
|                    | 50000 | 72.0 | 70.9  | 67.6  | 70.4  | 67.5  | 69.4  | 71.6  | 71.2  | 72.9  | 70.7  | 64.5  |    |    |    |    |    | 111.2 |
|                    | 63000 | 76.0 | 73.2  | 69.0  | 71.1  | 68.4  | 69.1  | 69.5  | 68.0  | 69.0  | 67.5  | 64.8  |    |    |    |    |    | 110.8 |
|                    | 80000 | 75.6 | 71.4  | 70.0  | 70.7  | 70.3  | 71.1  | 70.9  | 70.0  | 70.6  | 69.4  | 66.2  |    |    |    |    |    | 113.6 |
| OVERALL MEASURED   |       |      |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    | 116.8 |
| OVERALL CALCULATED |       | 86.4 | 87.7  | 88.8  | 91.3  | 93.8  | 95.8  | 97.7  | 98.1  | 99.2  | 97.2  | 92.1  |    |    |    |    |    |       |
| PNDR               |       | 97.9 | 100.2 | 101.5 | 103.9 | 106.7 | 108.7 | 110.5 | 111.0 | 112.2 | 110.4 | 105.1 |    |    |    |    |    | 138.1 |

MODEL SOUND PRESSURE LEVELS 159. DFG. P. 70 PERCENT REL. HUM. GAV)

PROC. DATE - MONTH 11 DAY 28 HR. 10.0

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ. 53. (0.92) 62. (1.08) 71. (1.24) 81. (1.41) 91. (1.58) 101. (1.76) 111. (1.94) 122. (2.13) 133. (2.32) 145. (2.52) 159. (2.73) 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

| PARAMETER          | 53    | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 159  | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|---|---|
| SIDELINE 200. FT.  | 50    |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |
| ( 60.96 M)         | 63    |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |
| VEHICLE R-55       | 100   | 49.4 | 53.9 | 58.1 | 60.2 | 60.8 | 59.7 | 57.2 | 50.1 | 45.8 | 48.3 | 47.3 |   |   |   |   |   |   |   |
| CONFIG 18          | 125   | 43.8 | 45.6 | 49.7 | 47.6 | 47.7 | 46.1 | 46.6 | 47.8 | 47.7 | 46.4 | 45.4 |   |   |   |   |   |   |   |
| LCC SCHEMECTADY    | 160   | 40.7 | 43.7 | 44.4 | 45.1 | 46.1 | 46.0 | 47.5 | 47.2 | 47.8 | 47.5 | 45.6 |   |   |   |   |   |   |   |
| DATE 11/22/74      | 200   | 41.8 | 43.9 | 45.6 | 45.7 | 47.8 | 48.9 | 49.4 | 49.6 | 49.0 | 48.9 | 46.9 |   |   |   |   |   |   |   |
| RUN 23/1           | 250   | 42.5 | 45.5 | 47.0 | 46.9 | 48.5 | 48.1 | 49.8 | 49.2 | 48.8 | 47.7 | 45.0 |   |   |   |   |   |   |   |
| TAPE               | 315   | 44.1 | 48.0 | 48.6 | 49.1 | 49.9 | 49.8 | 50.0 | 49.4 | 48.5 | 46.1 | 44.5 |   |   |   |   |   |   |   |
| BAR 29.8 HG        | 400   | 42.8 | 46.6 | 46.8 | 47.5 | 48.6 | 48.7 | 49.9 | 49.3 | 47.0 | 46.9 | 43.3 |   |   |   |   |   |   |   |
| (00534. N/M2)      | 500   | 41.9 | 44.8 | 45.2 | 46.2 | 48.2 | 48.9 | 50.3 | 50.2 | 49.0 | 47.3 | 42.5 |   |   |   |   |   |   |   |
| TAMB 40. DEG F     | 630   | 44.6 | 46.2 | 48.1 | 50.1 | 51.2 | 52.8 | 54.2 | 54.2 | 52.7 | 49.8 | 43.5 |   |   |   |   |   |   |   |
| (278. DEG K)       | 800   | 47.7 | 47.8 | 49.7 | 50.2 | 52.3 | 53.2 | 54.3 | 54.2 | 52.7 | 50.6 | 43.0 |   |   |   |   |   |   |   |
| T-ET 36. DEG F     | 1000  | 43.1 | 46.4 | 47.3 | 50.6 | 52.2 | 54.1 | 55.4 | 55.8 | 54.8 | 52.4 | 41.9 |   |   |   |   |   |   |   |
| (275. DEG K)       | 1250  | 52.7 | 54.2 | 55.0 | 58.5 | 61.3 | 63.2 | 64.8 | 63.1 | 60.8 | 59.4 | 48.3 |   |   |   |   |   |   |   |
| MACT 4.45 CM/M3    | 1600  | 49.0 | 51.8 | 53.8 | 58.1 | 59.4 | 60.5 | 62.1 | 60.4 | 58.9 | 56.2 | 45.1 |   |   |   |   |   |   |   |
| (-00445 KG/M3)     | 2000  | 49.2 | 51.9 | 54.3 | 57.2 | 59.5 | 61.1 | 61.6 | 60.4 | 58.4 | 54.8 | 45.4 |   |   |   |   |   |   |   |
| NFA 5469. RPM      | 2500  | 50.5 | 54.0 | 56.2 | 58.9 | 61.6 | 64.2 | 64.9 | 63.0 | 65.4 | 60.3 | 49.2 |   |   |   |   |   |   |   |
| ( 572. RAD/SEC)    | 3170  | 47.9 | 51.9 | 54.1 | 57.4 | 60.9 | 62.7 | 64.1 | 62.6 | 62.2 | 57.6 | 46.4 |   |   |   |   |   |   |   |
| NFK 5571. RPM      | 4000  | 46.1 | 50.7 | 52.9 | 56.7 | 60.2 | 61.7 | 63.8 | 63.5 | 62.3 | 56.3 | 45.8 |   |   |   |   |   |   |   |
| ( 583. RAD/SEC)    | 5000  | 44.2 | 48.4 | 51.1 | 54.9 | 58.4 | 61.2 | 62.3 | 61.4 | 60.2 | 54.6 | 42.3 |   |   |   |   |   |   |   |
| NFD 8423. RPM      | 6300  | 41.7 | 46.1 | 49.0 | 53.3 | 56.6 | 59.7 | 60.5 | 60.2 | 58.5 | 52.0 | 39.9 |   |   |   |   |   |   |   |
| ( 924. RAD/SEC)    | 8000  | 38.2 | 43.6 | 46.2 | 50.7 | 54.0 | 56.3 | 57.9 | 57.1 | 56.1 | 49.5 | 36.1 |   |   |   |   |   |   |   |
| NO. OF BLADES 15   | 10000 | 35.8 | 41.5 | 43.6 | 48.8 | 52.3 | 53.9 | 55.3 | 55.1 | 54.1 | 46.4 | 33.1 |   |   |   |   |   |   |   |
| FAN TIP SPEED      | 12500 | 33.5 | 37.9 | 39.7 | 44.6 | 48.8 | 50.0 | 52.1 | 52.0 | 50.2 | 41.3 | 26.9 |   |   |   |   |   |   |   |
| 477. FT/SEC        | 16000 | 26.2 | 31.5 | 33.8 | 38.9 | 41.6 | 43.8 | 45.8 | 46.3 | 43.0 | 32.5 | 15.6 |   |   |   |   |   |   |   |
|                    | 20000 | 21.1 | 25.9 | 27.7 | 33.3 | 36.3 | 38.4 | 39.8 | 40.0 | 37.8 | 24.3 | 2.0  |   |   |   |   |   |   |   |
|                    | 25000 | 14.4 | 19.6 | 19.8 | 25.3 | 27.5 | 29.4 | 30.8 | 29.1 | 24.2 | 9.6  |      |   |   |   |   |   |   |   |
|                    | 31500 | 2.2  | 8.1  | 8.5  | 14.4 | 16.6 | 19.0 | 19.1 | 16.7 | 9.6  |      |      |   |   |   |   |   |   |   |
|                    | 40000 |      |      |      |      |      | 0.8  | 0.8  |      |      |      |      |   |   |   |   |   |   |   |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |
| OVERALL CALCULATED | 59.7  | 62.8 | 65.0 | 67.7 | 70.3 | 71.8 | 73.8 | 72.8 | 71.2 | 67.1 | 58.2 |      |   |   |   |   |   |   |   |
| PN38               | 71.9  | 75.4 | 77.5 | 80.3 | 83.2 | 85.1 | 86.2 | 85.4 | 85.2 | 80.7 | 70.4 |      |   |   |   |   |   |   |   |



MODEL SOUND PRESSURE LEVELS (50. DEG. F., 70 PERCENT REL. HUM., EAV)

ANGLES FROM INLET IN DEGREES (AND RADJANS)

|                     | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 150.   | 0.   | 0. | 0. | 0. | 0. | 0. |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|
| FREQ.               | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.   | 0. | 0. | 0. | 0. | 0. |
| SIDE LINE 200. FT.  | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50   | 50 | 50 | 50 | 50 | 50 |
| ( 60.96 M)          | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63   | 63 | 63 | 63 | 63 | 63 |
| VEHICLE R-55        | 100    | 51.1   | 53.9   | 51.3   | 50.5   | 49.8   | 50.2   | 51.7   | 50.3   | 49.5   | 51.0   | 50.3 |    |    |    |    |    |
| CONVIC 10           | 125    | 45.3   | 47.8   | 50.2   | 49.6   | 50.5   | 50.1   | 50.1   | 50.8   | 50.7   | 50.7   | 49.9 |    |    |    |    |    |
| LJC SCHEMECTACy     | 160    | 44.2   | 46.7   | 47.7   | 48.8   | 49.4   | 49.3   | 51.0   | 51.2   | 51.1   | 51.3   | 49.6 |    |    |    |    |    |
| DATE 11/22/74       | 200    | 43.8   | 45.8   | 47.8   | 48.5   | 50.3   | 51.0   | 52.7   | 53.1   | 52.5   | 53.4   | 50.9 |    |    |    |    |    |
| RUA 23/2            | 250    | 46.0   | 48.3   | 49.7   | 50.9   | 52.0   | 52.1   | 53.1   | 53.0   | 52.1   | 52.0   | 49.2 |    |    |    |    |    |
| TAPE                | 315    | 47.6   | 51.0   | 51.4   | 52.1   | 53.2   | 53.3   | 54.0   | 53.1   | 52.0   | 51.3   | 48.2 |    |    |    |    |    |
| BAR 29.4 MG         | 400    | 46.3   | 49.1   | 49.6   | 51.0   | 51.6   | 52.4   | 53.1   | 52.8   | 51.9   | 51.2   | 47.3 |    |    |    |    |    |
| (80534.4/M2)        | 500    | 44.2   | 47.0   | 47.7   | 49.2   | 51.5   | 52.4   | 53.5   | 53.2   | 52.7   | 51.0   | 46.3 |    |    |    |    |    |
| TAMB 40. DEG F      | 600    | 46.8   | 48.7   | 50.4   | 52.6   | 54.2   | 55.8   | 56.2   | 55.8   | 54.4   | 52.6   | 46.3 |    |    |    |    |    |
| (278. DEG W)        | 800    | 49.2   | 50.0   | 52.0   | 52.7   | 53.3   | 55.9   | 57.3   | 56.7   | 55.2   | 52.6   | 45.7 |    |    |    |    |    |
| T-ET 36. DEG F      | 1000   | 44.6   | 46.6   | 50.1   | 53.1   | 54.9   | 56.3   | 58.7   | 58.3   | 57.0   | 54.4   | 45.1 |    |    |    |    |    |
| (275. DEG K)        | 1250   | 47.9   | 50.2   | 53.0   | 55.8   | 58.3   | 58.9   | 61.3   | 60.8   | 59.1   | 56.4   | 46.8 |    |    |    |    |    |
| MACT 4.45 CM/M3     | 1600   | 55.0   | 59.1   | 59.8   | 62.9   | 67.2   | 67.3   | 68.3   | 67.9   | 66.1   | 63.2   | 50.1 |    |    |    |    |    |
| (.00445 KG/M3)      | 2000   | 51.5   | 54.9   | 57.3   | 60.5   | 63.3   | 64.9   | 65.4   | 63.7   | 61.9   | 57.1   | 46.9 |    |    |    |    |    |
| NFA 6256. RPM       | 2500   | 49.8   | 53.7   | 56.2   | 60.4   | 63.1   | 64.7   | 65.9   | 63.2   | 62.6   | 58.5   | 45.9 |    |    |    |    |    |
| ( 455. RAD/SEC)     | 3150   | 52.7   | 56.2   | 59.1   | 63.1   | 66.4   | 67.9   | 69.1   | 67.8   | 66.5   | 63.1   | 50.9 |    |    |    |    |    |
| NFK 6374. RPM       | 4000   | 49.6   | 53.2   | 55.9   | 60.2   | 63.7   | 65.5   | 66.8   | 65.8   | 63.3   | 57.3   | 45.8 |    |    |    |    |    |
| ( 667. RAD/SEC)     | 5600   | 49.2   | 53.1   | 56.1   | 60.4   | 63.4   | 66.2   | 66.5   | 65.7   | 64.2   | 57.1   | 44.8 |    |    |    |    |    |
| NFD 8023. RPM       | 6300   | 45.9   | 50.4   | 53.8   | 58.1   | 61.4   | 63.8   | 65.3   | 64.2   | 62.5   | 54.3   | 42.4 |    |    |    |    |    |
| ( 924. RAD/SEC)     | 8000   | 41.7   | 47.6   | 50.9   | 54.7   | 58.5   | 60.8   | 61.9   | 61.8   | 59.4   | 51.8   | 38.9 |    |    |    |    |    |
| NO. OF BLADES 15    | 10000  | 39.6   | 44.5   | 48.1   | 53.5   | 56.8   | 59.4   | 60.1   | 59.8   | 58.1   | 49.4   | 34.9 |    |    |    |    |    |
| FAN TIP SPEED 16000 | 12500  | 36.0   | 40.9   | 44.9   | 49.9   | 53.5   | 54.8   | 56.6   | 56.0   | 54.2   | 43.8   | 27.9 |    |    |    |    |    |
| 548. FT/SEC         | 20000  | 28.2   | 34.0   | 37.5   | 42.7   | 46.4   | 48.3   | 50.3   | 50.0   | 46.5   | 35.2   | 16.4 |    |    |    |    |    |
| 25000               | 22.1   | 27.7   | 31.2   | 37.5   | 41.5   | 42.9   | 45.6   | 44.7   | 42.8   | 27.5   | 3.8    |      |    |    |    |    |    |
| 31500               | 13.9   | 18.6   | 23.1   | 29.1   | 32.7   | 34.4   | 35.8   | 34.3   | 29.2   | 13.3   |        |      |    |    |    |    |    |
| 40000               | 1.2    | 7.9    | 11.8   | 18.1   | 21.8   | 24.8   | 24.3   | 21.4   | 14.1   |        |        |      |    |    |    |    |    |
| 50000               |        |        |        | 0.7    | 3.2    | 6.3    | 5.6    | 0.2    |        |        |        |      |    |    |    |    |    |
| 63000               |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
| 80000               |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
| OVERALL CALCULATED  | 61.9   | 65.4   | 67.2   | 70.6   | 73.8   | 75.2   | 76.3   | 75.3   | 74.2   | 69.5   | 68.9   |      |    |    |    |    |    |
| PN20                | 74.7   | 78.4   | 80.9   | 84.5   | 87.5   | 89.8   | 90.2   | 89.1   | 88.7   | 83.6   | 73.8   |      |    |    |    |    |    |

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OF POOR QUALITY



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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. EAY)  
 PR.C. DATE - MONTH 11 DAY 25 No. 10.7  
 ANGLES FROM TALET IN DEGREES (AND RADIANS)

|                     | 53.     | 62.     | 71.     | 81.     | 91.     | 101.    | 111.    | 122.    | 133.    | 145.    | 156.    | 0.    | 0. | 0. | 0. | 0. | 0. | 0. | PAL   |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|----|----|----|----|----|----|-------|
| FREQ.               | (10.92) | (11.08) | (11.24) | (11.41) | (11.59) | (11.76) | (11.94) | (12.13) | (12.32) | (12.52) | (12.73) | (0.   | 0. | 0. | 0. | 0. | 0. | 0. | 0.)   |
| RADIAL 17. FT.      | 50      |         |         |         |         |         |         |         |         |         |         |       |    |    |    |    |    |    |       |
| RADIAL 1 S. H.)     | 63      |         |         |         |         |         |         |         |         |         |         |       |    |    |    |    |    |    |       |
| VEHICLE R=55        | 100     | 67.6    | 72.1    | 72.4    | 71.4    | 72.4    | 72.2    | 73.1    | 73.4    | 76.5    | 80.9    | 84.6  |    |    |    |    |    |    | 110.2 |
| CONFIG 10           | 125     | 74.3    | 79.6    | 78.1    | 74.4    | 77.4    | 75.4    | 76.1    | 77.7    | 79.0    | 81.1    | 84.4  |    |    |    |    |    |    | 112.6 |
| LCC SCHEMECTADY     | 160     | 70.8    | 73.1    | 72.9    | 73.9    | 74.6    | 73.9    | 76.6    | 77.7    | 79.7    | 82.3    | 84.1  |    |    |    |    |    |    | 111.7 |
| DATE 11/22/74       | 230     | 70.6    | 71.4    | 72.4    | 77.2    | 75.1    | 77.1    | 78.1    | 79.4    | 81.0    | 83.3    | 85.6  |    |    |    |    |    |    | 112.9 |
| RUN 23/3            | 250     | 73.5    | 75.4    | 75.9    | 76.1    | 77.1    | 77.9    | 79.3    | 79.9    | 81.2    | 83.1    | 84.3  |    |    |    |    |    |    | 113.4 |
| TAPE                | 315     | 74.8    | 76.9    | 77.1    | 77.4    | 77.9    | 78.7    | 79.6    | 79.9    | 80.7    | 82.6    | 83.6  |    |    |    |    |    |    | 113.5 |
| BAR 29.8 HG         | 450     | 74.1    | 75.6    | 75.4    | 74.2    | 76.3    | 77.4    | 79.1    | 79.6    | 80.0    | 81.6    | 83.1  |    |    |    |    |    |    | 112.7 |
| 103534. N/M2)       | 500     | 71.6    | 73.4    | 73.4    | 74.4    | 76.3    | 77.4    | 79.1    | 79.9    | 81.0    | 81.9    | 81.9  |    |    |    |    |    |    | 112.4 |
| TANK 40. DEG F      | 600     | 73.9    | 74.6    | 76.4    | 77.7    | 78.9    | 80.7    | 82.6    | 83.2    | 83.9    | 83.1    | 81.9  |    |    |    |    |    |    | 114.9 |
| (278. DEG F)        | 800     | 75.6    | 76.1    | 77.1    | 74.4    | 79.9    | 81.2    | 83.3    | 83.4    | 83.2    | 83.3    | 81.1  |    |    |    |    |    |    | 115.2 |
| T-ET 36. DEG F      | 1000    | 73.1    | 75.4    | 75.6    | 74.2    | 80.1    | 81.7    | 84.1    | 84.9    | 85.6    | 84.1    | 80.6  |    |    |    |    |    |    | 116.0 |
| (275. DEG F)        | 1250    | 74.4    | 76.4    | 77.6    | 80.5    | 82.7    | 84.5    | 85.4    | 86.4    | 86.9    | 84.9    | 80.6  |    |    |    |    |    |    | 117.6 |
| NACT 4.45 CM/M3     | 1600    | 79.4    | 81.2    | 83.6    | 87.9    | 93.0    | 91.2    | 93.3    | 93.4    | 92.9    | 90.1    | 84.9  |    |    |    |    |    |    | 120.3 |
| (1.00445 KG/M3)     | 2000    | 81.2    | 83.2    | 86.1    | 89.1    | 91.3    | 92.3    | 94.3    | 94.4    | 93.2    | 90.1    | 85.4  |    |    |    |    |    |    | 123.3 |
| NFA 7049. RPM       | 2500    | 74.2    | 81.5    | 82.9    | 87.1    | 89.0    | 91.5    | 92.0    | 91.6    | 91.2    | 86.4    | 82.3  |    |    |    |    |    |    | 123.4 |
| ( 73A. RAD/SEC)     | 3150    | 79.4    | 82.2    | 84.9    | 84.7    | 91.3    | 93.0    | 95.0    | 94.1    | 95.2    | 90.9    | 85.3  |    |    |    |    |    |    | 125.9 |
| NFK 7182. RPM       | 4000    | 79.1    | 82.7    | 85.3    | 89.1    | 91.3    | 93.7    | 96.5    | 96.3    | 95.7    | 91.4    | 86.0  |    |    |    |    |    |    | 127.0 |
| ( 752. RAD/SEC)     | 5000    | 74.8    | 82.4    | 84.5    | 89.1    | 92.0    | 92.9    | 95.7    | 96.0    | 94.8    | 90.1    | 85.8  |    |    |    |    |    |    | 126.5 |
| NFD 8223. RPM       | 6300    | 76.7    | 83.3    | 83.0    | 86.9    | 90.1    | 91.4    | 95.2    | 94.5    | 94.4    | 89.0    | 83.6  |    |    |    |    |    |    | 123.4 |
| ( 924. RAD/SEC)     | 8000    | 74.4    | 74.9    | 81.3    | 86.0    | 87.8    | 90.6    | 93.0    | 94.0    | 93.8    | 88.7    | 82.9  |    |    |    |    |    |    | 124.4 |
| NO. OF BLADES 15    | 10000   | 74.1    | 77.5    | 80.8    | 85.3    | 88.1    | 90.5    | 93.5    | 93.8    | 93.9    | 88.5    | 83.1  |    |    |    |    |    |    | 124.6 |
| FAN TIP SPEED 160FC | 12500   | 73.4    | 76.3    | 79.5    | 84.2    | 86.6    | 84.9    | 91.4    | 93.1    | 92.6    | 87.4    | 82.3  |    |    |    |    |    |    | 123.9 |
| 815. FT/SEC         | 16000   | 79.2    | 73.2    | 75.9    | 80.3    | 84.0    | 86.3    | 90.0    | 91.4    | 90.9    | 85.2    | 80.3  |    |    |    |    |    |    | 121.6 |
| 25000               | 20000   | 70.2    | 73.9    | 76.3    | 80.3    | 83.6    | 86.6    | 89.4    | 92.8    | 92.1    | 85.3    | 79.5  |    |    |    |    |    |    | 122.6 |
| 31500               | 25000   | 70.2    | 73.1    | 74.6    | 78.9    | 81.9    | 84.4    | 87.7    | 90.5    | 90.5    | 84.4    | 78.2  |    |    |    |    |    |    | 121.7 |
| 40000               | 31500   | 69.2    | 72.3    | 73.4    | 74.9    | 80.9    | 83.4    | 86.7    | 89.0    | 88.4    | 83.5    | 76.5  |    |    |    |    |    |    | 121.2 |
| 50000               | 40000   | 69.3    | 70.4    | 71.4    | 75.5    | 78.0    | 80.7    | 84.1    | 85.6    | 85.0    | 80.6    | 72.5  |    |    |    |    |    |    | 119.7 |
| 63000               | 50000   | 71.8    | 70.9    | 69.9    | 72.2    | 74.3    | 76.9    | 81.1    | 80.5    | 80.9    | 76.9    | 68.5  |    |    |    |    |    |    | 117.5 |
| 80000               | 63000   | 75.7    | 72.7    | 73.0    | 71.6    | 72.4    | 73.3    | 75.8    | 75.0    | 75.0    | 72.3    | 68.3  |    |    |    |    |    |    | 116.5 |
|                     | 80000   | 75.9    | 72.4    | 72.8    | 73.7    | 75.5    | 75.3    | 77.1    | 76.7    | 75.2    | 72.4    | 68.2  |    |    |    |    |    |    | 121.6 |
| OVERALL MEASURED    |         |         |         |         |         |         |         |         |         |         |         |       |    |    |    |    |    |    |       |
| OVERALL CALCULATED  |         | 90.2    | 92.7    | 94.7    | 96.2    | 100.8   | 102.5   | 105.0   | 105.3   | 105.0   | 101.0   | 97.5  |    |    |    |    |    |    | 136.6 |
| PAGE                |         | 102.7   | 103.7   | 107.8   | 111.2   | 113.7   | 115.4   | 117.8   | 117.7   | 117.4   | 114.0   | 109.8 |    |    |    |    |    |    |       |

FREQ. (0.92)(1.08)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(0. 0. 0. 0. 0. 0. 0. 0. 0. 0.)

|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0.   | 0.  | 0.  | 0.  | 0.  | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|------|
|                    | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | (0. | (0. | (0. | (0. | (0.) |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| ( 60.00 F)         | 130    | 44.1   | 49.4   | 50.3   | 49.7   | 50.8   | 50.4   | 50.9   | 50.3   | 52.0   | 54.3   | 54.5 |     |     |     |     |      |
| VEHICLE            | 129    | 50.5   | 56.0   | 56.8   | 54.0   | 55.7   | 53.0   | 53.0   | 54.5   | 54.4   | 54.6   | 54.1 |     |     |     |     |      |
| CONFIG 10          | 160    | 40.9   | 50.2   | 50.7   | 52.1   | 52.9   | 52.0   | 54.2   | 54.4   | 55.1   | 55.9   | 53.0 |     |     |     |     |      |
| LCC SCHEDULED      | 200    | 40.1   | 40.4   | 50.1   | 51.2   | 53.3   | 55.2   | 55.7   | 56.1   | 56.2   | 56.4   | 54.9 |     |     |     |     |      |
| DATE 11/22/74      | 250    | 47.5   | 52.3   | 53.5   | 54.1   | 55.2   | 55.0   | 56.0   | 56.5   | 56.3   | 54.0   | 53.5 |     |     |     |     |      |
| RPM 2300           | 315    | 50.6   | 53.7   | 54.6   | 55.3   | 55.9   | 56.5   | 57.0   | 56.4   | 55.7   | 55.3   | 52.5 |     |     |     |     |      |
| TAPE               | 400    | 47.8   | 52.4   | 52.4   | 54.0   | 54.8   | 55.2   | 54.4   | 56.0   | 54.9   | 54.2   | 51.0 |     |     |     |     |      |
| BAR 29.8 HG        | 530    | 47.2   | 50.0   | 50.7   | 52.2   | 54.7   | 55.1   | 54.3   | 56.2   | 55.7   | 54.3   | 50.0 |     |     |     |     |      |
| (00534. H/M2)      | 630    | 49.3   | 51.2   | 53.6   | 54.3   | 54.7   | 50.3   | 50.7   | 50.3   | 50.1   | 53.3   | 50.0 |     |     |     |     |      |
| TAM 40. DEG F      | 850    | 50.9   | 52.5   | 54.2   | 54.0   | 57.5   | 58.7   | 60.3   | 59.4   | 57.7   | 55.4   | 49.0 |     |     |     |     |      |
| (270. DEG F)       | 1030   | 45.3   | 51.6   | 52.0   | 55.0   | 57.7   | 59.1   | 60.0   | 60.0   | 59.3   | 55.9   | 48.1 |     |     |     |     |      |
| T-CT 36. DEG F     | 1250   | 49.4   | 52.5   | 54.5   | 57.0   | 60.1   | 61.7   | 62.5   | 52.1   | 60.3   | 56.4   | 47.0 |     |     |     |     |      |
| (275. DEG F)       | 1630   | 54.2   | 57.1   | 60.3   | 64.1   | 67.2   | 68.3   | 69.0   | 68.9   | 66.1   | 61.4   | 51.0 |     |     |     |     |      |
| MACT 4.45 GM/MS    | 2030   | 55.7   | 58.9   | 62.0   | 66.0   | 68.8   | 69.1   | 70.6   | 69.7   | 68.9   | 61.1   | 51.0 |     |     |     |     |      |
| (.00445 KG/MS)     | 2550   | 52.5   | 57.0   | 59.2   | 63.0   | 65.9   | 68.2   | 68.9   | 68.7   | 64.6   | 57.0   | 48.2 |     |     |     |     |      |
| MFA 7349. RPM      | 3150   | 53.4   | 57.4   | 60.0   | 65.1   | 67.9   | 69.4   | 70.9   | 68.0   | 64.2   | 61.1   | 50.4 |     |     |     |     |      |
| ( 730. RAD/SEC)    | 4000   | 52.6   | 57.4   | 60.9   | 65.2   | 67.9   | 69.7   | 71.0   | 70.5   | 68.1   | 60.0   | 50.0 |     |     |     |     |      |
| MFK 7102. RPM      | 5070   | 52.0   | 54.9   | 59.8   | 64.9   | 67.3   | 68.7   | 70.0   | 69.9   | 67.0   | 59.1   | 48.3 |     |     |     |     |      |
| ( 752. RAD/SEC)    | 6360   | 48.9   | 53.9   | 57.5   | 61.0   | 65.4   | 68.5   | 69.5   | 67.7   | 65.5   | 56.0   | 45.4 |     |     |     |     |      |
| MFD 6823. RPM      | 8000   | 45.7   | 51.3   | 54.7   | 60.0   | 62.0   | 64.5   | 66.2   | 65.0   | 63.4   | 54.5   | 41.6 |     |     |     |     |      |
| ( 924. RAD/SEC)    | 10000  | 43.1   | 48.2   | 52.6   | 57.0   | 60.0   | 62.0   | 65.1   | 63.0   | 61.4   | 51.0   | 37.9 |     |     |     |     |      |
| NO. OF BLADES 15   | 12500  | 39.5   | 44.4   | 48.9   | 54.4   | 57.0   | 59.0   | 60.4   | 60.5   | 57.2   | 46.0   | 31.4 |     |     |     |     |      |
| FAN TIP SPEED      | 10000  | 31.7   | 37.0   | 41.5   | 46.0   | 50.9   | 52.0   | 55.3   | 54.5   | 50.2   | 38.0   | 19.0 |     |     |     |     |      |
| 615. FT/SEC        | 20000  | 25.6   | 32.4   | 36.9   | 42.0   | 45.0   | 47.4   | 49.0   | 49.5   | 44.7   | 29.5   | 0.0  |     |     |     |     |      |
|                    | 25000  | 18.9   | 23.9   | 28.1   | 33.0   | 37.2   | 39.2   | 40.0   | 39.0   | 33.7   | 10.0   |      |     |     |     |     |      |
|                    | 31500  | 3.2    | 11.4   | 16.3   | 22.9   | 26.3   | 28.0   | 28.0   | 26.4   | 17.6   |        |      |     |     |     |     |      |
|                    | 40000  |        |        | 5.4    | 8.7    | 10.3   | 10.3   | 5.5    |        |        |        |      |     |     |     |     |      |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| OVERALL CALCULATED |        | 63.9   | 67.7   | 70.3   | 74.0   | 76.6   | 76.0   | 70.7   | 70.5   | 70.4   | 70.0   | 64.4 |     |     |     |     |      |
| PRSD               |        | 76.6   | 66.6   | 63.6   | 67.4   | 60.0   | 61.5   | 63.4   | 62.2   | 60.1   | 63.9   | 74.0 |     |     |     |     |      |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PUFF. DATE - NOV. 11 11 25 No. 10.7  
 MODEL SOUND PRESSURE LEVELS (59. DEC. F. 70 PERCENT DEL. NOV. 1971)  
 ANGLES FROM TALEY IN DEGREES (AND RADIANS)

|                     | 53.    | 64.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 159.   | 0.   | 0. | 0. | 0. | 0. | 0. | 0.    |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|-------|
| FREQ.               | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.   | 0. | 0. | 0. | 0. | 0. | 0.    |
| RADIAL 17. FT.      | 50     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
| VEHICLE 1 S. M1     | 63     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
| CONFIG 10           | 80     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
| LOC SCHEMECTAD      | 100    | 77.8   | 77.9   | 73.4   | 74.4   | 75.6   | 75.4   | 76.4   | 77.0   | 80.0   | 84.5   | 88.4 |    |    |    |    |    | 113.7 |
| DATE 11/22/74       | 125    | 77.8   | 77.8   | 76.8   | 74.9   | 76.6   | 79.4   | 81.4   | 82.4   | 82.7   | 84.3   | 87.9 |    |    |    |    |    | 115.9 |
| ML 23/4             | 160    | 75.5   | 75.9   | 75.6   | 76.6   | 77.4   | 77.2   | 79.0   | 81.4   | 83.2   | 86.1   | 88.1 |    |    |    |    |    | 119.3 |
| TAPE                | 200    | 79.3   | 74.6   | 74.0   | 74.4   | 78.6   | 80.1   | 81.6   | 83.1   | 83.7   | 84.5   | 89.3 |    |    |    |    |    | 118.4 |
| BAR 29.0 MG         | 250    | 83.3   | 78.3   | 80.1   | 81.1   | 81.6   | 82.6   | 84.3   | 85.6   | 86.5   | 88.3   | 89.3 |    |    |    |    |    | 118.4 |
| 100530. 4/M21       | 315    | 80.0   | 79.9   | 80.4   | 82.0   | 81.1   | 82.2   | 82.8   | 83.1   | 84.2   | 86.3   | 87.3 |    |    |    |    |    | 117.0 |
| TAPE 40. DEC F      | 400    | 78.9   | 75.6   | 78.1   | 79.1   | 79.9   | 80.2   | 81.9   | 83.1   | 83.5   | 84.8   | 86.3 |    |    |    |    |    | 119.9 |
| 1270. DEC F         | 500    | 79.4   | 74.4   | 76.1   | 74.1   | 79.0   | 79.9   | 82.1   | 83.4   | 83.7   | 85.1   | 84.9 |    |    |    |    |    | 115.0 |
| TAPE 1275. DEC F    | 630    | 74.8   | 77.4   | 78.1   | 80.6   | 81.9   | 83.2   | 84.9   | 85.7   | 85.5   | 85.5   | 85.6 |    |    |    |    |    | 117.4 |
| 1270. DEC F         | 800    | 82.1   | 78.1   | 78.4   | 81.1   | 83.4   | 83.7   | 85.3   | 86.1   | 86.0   | 85.4   | 84.6 |    |    |    |    |    | 116.0 |
| 1275. DEC F         | 1000   | 77.1   | 78.1   | 78.6   | 82.6   | 82.1   | 84.2   | 84.1   | 86.9   | 87.0   | 84.8   | 83.6 |    |    |    |    |    | 118.1 |
| MACT 8.45 2H/MS     | 1250   | 78.1   | 78.2   | 80.4   | 82.5   | 85.2   | 86.7   | 88.3   | 88.4   | 88.2   | 84.4   | 83.6 |    |    |    |    |    | 116.8 |
| 1.00445 40/H31      | 1500   | 83.9   | 81.7   | 83.1   | 85.7   | 88.2   | 89.7   | 91.6   | 91.4   | 90.7   | 86.9   | 83.1 |    |    |    |    |    | 122.0 |
| NFA 7812. 2PM       | 2000   | 88.4   | 82.5   | 81.6   | 84.5   | 87.5   | 89.3   | 90.4   | 90.4   | 90.5   | 94.9   | 90.0 |    |    |    |    |    | 131.6 |
| 1 810. RAD/SEC      | 2500   | 92.9   | 85.2   | 86.4   | 86.6   | 93.3   | 94.0   | 95.8   | 93.9   | 94.0   | 88.7   | 84.0 |    |    |    |    |    | 126.4 |
| 1 833. RAD/SEC      | 3150   | 82.9   | 84.2   | 86.2   | 89.0   | 93.3   | 94.0   | 94.8   | 94.8   | 96.0   | 88.9   | 85.6 |    |    |    |    |    | 127.2 |
| 1 842. RAD/SEC      | 4000   | 85.1   | 86.5   | 89.8   | 92.3   | 95.3   | 97.2   | 99.2   | 99.5   | 99.4   | 94.9   | 90.0 |    |    |    |    |    | 130.4 |
| 1 859. RAD/SEC      | 5000   | 82.1   | 84.2   | 87.8   | 87.3   | 93.7   | 95.7   | 97.9   | 97.2   | 96.9   | 91.8   | 88.2 |    |    |    |    |    | 124.4 |
| 1 873. RAD/SEC      | 6300   | 82.1   | 84.5   | 87.8   | 92.3   | 93.6   | 98.0   | 98.4   | 98.3   | 98.0   | 92.3   | 87.1 |    |    |    |    |    | 129.4 |
| 1 883. RAD/SEC      | 8000   | 79.3   | 82.1   | 85.3   | 89.3   | 91.6   | 93.9   | 96.2   | 96.8   | 96.3   | 90.7   | 85.9 |    |    |    |    |    | 127.3 |
| 1 924. RAD/SEC      | 10000  | 79.1   | 81.3   | 85.1   | 89.0   | 91.9   | 94.0   | 96.5   | 97.0   | 97.1   | 91.0   | 85.6 |    |    |    |    |    | 127.6 |
| NO. OF BLADES 15    | 12500  | 74.9   | 80.3   | 83.5   | 87.6   | 91.1   | 93.6   | 95.9   | 94.6   | 95.9   | 90.7   | 84.8 |    |    |    |    |    | 127.3 |
| FAN TIP SPEED 16000 | 16000  | 75.0   | 77.8   | 80.4   | 84.3   | 88.0   | 90.1   | 93.5   | 94.9   | 93.6   | 88.2   | 82.8 |    |    |    |    |    | 125.3 |
| 602. FT/SEC         | 20000  | 76.2   | 74.1   | 80.3   | 84.2   | 87.5   | 89.7   | 93.4   | 95.5   | 95.1   | 88.8   | 83.8 |    |    |    |    |    | 120.2 |
|                     | 25000  | 76.4   | 77.6   | 78.9   | 83.9   | 88.3   | 89.0   | 92.7   | 95.0   | 94.5   | 84.2   | 87.7 |    |    |    |    |    | 120.2 |
|                     | 31500  | 75.7   | 75.7   | 77.7   | 82.4   | 85.4   | 87.0   | 91.2   | 93.2   | 92.6   | 84.8   | 89.0 |    |    |    |    |    | 125.9 |
|                     | 40000  | 75.4   | 73.9   | 75.8   | 80.8   | 82.8   | 85.0   | 88.6   | 89.6   | 89.6   | 84.1   | 75.5 |    |    |    |    |    | 123.0 |
|                     | 50000  | 77.2   | 77.1   | 72.9   | 78.1   | 79.5   | 81.4   | 85.3   | 85.2   | 84.4   | 88.7   | 71.9 |    |    |    |    |    | 121.9 |
|                     | 63000  | 79.5   | 71.0   | 71.7   | 77.6   | 78.9   | 77.6   | 80.8   | 80.8   | 79.7   | 76.3   | 69.1 |    |    |    |    |    | 121.1 |
|                     | 80000  | 81.3   | 74.9   | 74.5   | 79.4   | 80.5   | 80.1   | 81.1   | 84.0   | 81.5   | 77.1   | 72.0 |    |    |    |    |    | 127.1 |
| OVERALL MEASURED    |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
| OVERALL CALCULATED  | 95.5   | 96.9   | 98.2   | 101.0  | 104.2  | 106.1  | 106.3  | 108.0  | 108.2  | 103.0  | 100.0  |      |    |    |    |    |    | 140.1 |
| PH20                | 100.2  | 110.4  | 111.5  | 114.3  | 116.9  | 118.7  | 120.6  | 120.7  | 120.7  | 116.7  | 113.4  |      |    |    |    |    |    |       |

ORIGINAL PAGE IS  
OF POOR QUALITY

ANGLES FROM INLET IN DEGREES (AND RADIANS)  
 FREQ. (0.92)(1.05)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. )

|                             |       | 53.  | 62.  | 71.  | 81.  | 91.  | 101. | 111. | 122. | 133. | 145. | 156. | 0. | 0. | 0. | 0. | 0. | 0. |
|-----------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|
| SIDELINE 200. FT.           | 50    |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| ( 60.96 M)                  | 63    |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| VEHICLE R-55                | 100   | 49.1 | 50.2 | 51.3 | 52.7 | 54.0 | 53.7 | 54.2 | 54.8 | 55.5 | 58.0 | 58.3 |    |    |    |    |    |    |
| CONFIG 10                   | 125   | 54.0 | 54.8 | 54.5 | 55.1 | 57.0 | 57.8 | 59.1 | 59.3 | 58.2 | 57.7 | 57.6 |    |    |    |    |    |    |
| LOC SCHENECTADY             | 160   | 51.6 | 53.0 | 53.4 | 54.8 | 55.6 | 55.3 | 57.5 | 58.2 | 58.6 | 59.3 | 57.6 |    |    |    |    |    |    |
| DATE 11/22/74               | 200   | 54.0 | 51.6 | 52.6 | 54.4 | 56.8 | 58.2 | 59.2 | 59.8 | 59.0 | 59.6 | 58.7 |    |    |    |    |    |    |
| RUN 23/4                    | 250   | 55.9 | 55.8 | 57.7 | 59.1 | 59.7 | 60.0 | 61.8 | 62.2 | 61.6 | 61.2 | 58.5 |    |    |    |    |    |    |
| TAPE                        | 315   | 55.8 | 56.7 | 57.9 | 58.4 | 59.1 | 60.0 | 60.2 | 59.8 | 59.2 | 59.1 | 56.2 |    |    |    |    |    |    |
| BAR 29.0 HG                 | 460   | 55.5 | 55.4 | 55.6 | 56.9 | 57.9 | 57.9 | 59.1 | 59.5 | 58.4 | 57.4 | 55.0 |    |    |    |    |    |    |
| (00534. N/M <sup>2</sup> )  | 500   | 55.4 | 53.0 | 53.5 | 55.9 | 57.5 | 57.8 | 59.3 | 59.7 | 58.5 | 57.5 | 53.3 |    |    |    |    |    |    |
| TAMB 40. DEG F              | 630   | 54.3 | 53.9 | 55.4 | 58.3 | 59.7 | 60.8 | 61.9 | 61.8 | 60.1 | 57.8 | 53.8 |    |    |    |    |    |    |
| (278. DEG K)                | 800   | 57.4 | 54.5 | 56.5 | 58.7 | 61.0 | 61.2 | 62.3 | 62.2 | 60.4 | 57.6 | 52.5 |    |    |    |    |    |    |
| T-ET 36. DEG F              | 1000  | 52.3 | 54.4 | 55.6 | 59.0 | 59.7 | 61.0 | 62.9 | 62.8 | 61.3 | 57.7 | 51.1 |    |    |    |    |    |    |
| (275. DEG K)                | 1250  | 53.1 | 54.2 | 57.2 | 59.7 | 62.6 | 63.9 | 65.0 | 64.1 | 62.3 | 57.9 | 50.8 |    |    |    |    |    |    |
| MACT 4.45 GM/M <sup>3</sup> | 1600  | 55.7 | 57.6 | 59.8 | 62.8 | 65.4 | 66.8 | 68.1 | 66.9 | 64.6 | 58.2 | 49.8 |    |    |    |    |    |    |
| (.60445 KG/M <sup>3</sup> ) | 2000  | 63.2 | 68.1 | 68.1 | 71.7 | 74.0 | 75.1 | 76.9 | 76.7 | 73.1 | 65.8 | 57.1 |    |    |    |    |    |    |
| NFA 7812. RPM               | 2500  | 57.2 | 60.7 | 62.7 | 67.3 | 70.1 | 71.5 | 71.7 | 68.9 | 67.4 | 59.3 | 50.7 |    |    |    |    |    |    |
| ( 816. RAD/SEC)             | 3150  | 58.9 | 59.4 | 62.8 | 66.3 | 69.9 | 71.2 | 72.6 | 69.6 | 69.0 | 60.1 | 50.7 |    |    |    |    |    |    |
| NFK 7959. RPM               | 4000  | 58.5 | 61.2 | 65.4 | 68.4 | 71.4 | 73.2 | 74.6 | 73.8 | 71.8 | 64.3 | 54.8 |    |    |    |    |    |    |
| ( 833. RAD/SEC)             | 5000  | 55.2 | 58.6 | 62.3 | 66.1 | 69.7 | 71.4 | 73.0 | 71.2 | 69.8 | 60.8 | 49.6 |    |    |    |    |    |    |
| NFD 8823. RPM               | 6300  | 54.4 | 58.1 | 61.5 | 67.0 | 68.9 | 71.5 | 72.8 | 71.4 | 70.0 | 60.0 | 48.8 |    |    |    |    |    |    |
| ( 924. RAD/SEC)             | 8000  | 50.2 | 54.6 | 58.4 | 62.9 | 65.7 | 67.8 | 69.4 | 68.6 | 65.9 | 56.5 | 44.6 |    |    |    |    |    |    |
| NO. OF BLADES 15            | 10000 | 48.0 | 52.0 | 56.9 | 61.5 | 64.5 | 66.4 | 68.1 | 67.1 | 64.6 | 54.1 | 40.4 |    |    |    |    |    |    |
| FAN TIP SPEED               | 12500 | 45.0 | 48.4 | 52.9 | 57.8 | 61.5 | 63.8 | 65.1 | 64.0 | 60.2 | 49.8 | 33.9 |    |    |    |    |    |    |
| 682. FT/SEC                 | 16000 | 37.4 | 41.8 | 46.0 | 50.9 | 54.9 | 56.5 | 58.8 | 58.0 | 53.8 | 41.0 | 22.4 |    |    |    |    |    |    |
|                             | 25000 | 23.3 | 28.4 | 32.3 | 38.8 | 41.7 | 44.2 | 45.8 | 44.3 | 37.7 | 28.3 | 18.3 |    |    |    |    |    |    |
|                             | 31500 | 9.7  | 15.1 | 20.5 | 27.3 | 30.8 | 32.8 | 33.3 | 30.7 | 21.9 | 1.1  |      |    |    |    |    |    |    |
|                             | 40000 |      |      | 2.2  | 9.9  | 13.5 | 14.8 | 14.6 | 9.5  |      |      |      |    |    |    |    |    |    |
|                             | 50000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
|                             | 63000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
|                             | 80000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |
| OVERALL CALCULATED          |       | 69.2 | 71.9 | 73.7 | 77.2 | 79.9 | 81.4 | 82.8 | 81.7 | 79.5 | 73.2 | 68.0 |    |    |    |    |    |    |
| PNEB                        |       | 82.4 | 85.8 | 87.2 | 90.8 | 93.2 | 94.8 | 96.1 | 95.1 | 93.3 | 86.5 | 78.8 |    |    |    |    |    |    |

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MODEL SOUND PRESSURE LEVELS (59. DEG. F., 70 PERCENT REL. HUM., EAV)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.    | 0.    | 0.    | 0.    | 0.    | PWL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-------|-------|-------|-------|-------|-------|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.59) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.) | (10.) | (10.) | (10.) | (10.) | (10.) | (10.) |
| RADIAL 17. FT.     | 50     |        |        |        |        |        |        |        |        |        |        |      |       |       |       |       |       |       |
|                    | 63     |        |        |        |        |        |        |        |        |        |        |      |       |       |       |       |       |       |
|                    | 80     |        |        |        |        |        |        |        |        |        |        |      |       |       |       |       |       |       |
| VEHICLE ( 5. M )   | 100    | 72.3   | 73.4   | 74.1   | 75.4   | 75.9   | 76.2   | 78.1   | 79.7   | 80.5   | 83.6   | 87.6 |       |       |       |       |       | 113.7 |
| CONFIG R-55        | 125    | 77.3   | 78.4   | 77.1   | 77.9   | 78.5   | 79.4   | 81.6   | 82.9   | 83.2   | 85.1   | 88.1 |       |       |       |       |       | 115.8 |
| LOC SCHENECTADY    | 160    | 76.0   | 77.1   | 76.6   | 77.4   | 78.1   | 78.4   | 80.9   | 82.2   | 83.7   | 85.3   | 87.6 |       |       |       |       |       | 115.5 |
| DATE 11/22/74      | 200    | 75.5   | 74.9   | 75.1   | 77.1   | 79.1   | 80.4   | 81.4   | 83.1   | 84.2   | 86.9   | 88.8 |       |       |       |       |       | 116.3 |
| RUN 23/5           | 250    | 79.0   | 78.9   | 79.9   | 80.8   | 81.8   | 82.6   | 84.6   | 85.9   | 86.7   | 87.8   | 89.3 |       |       |       |       |       | 116.4 |
| TAPE               | 315    | 79.5   | 79.9   | 79.9   | 80.6   | 81.6   | 81.7   | 82.8   | 84.6   | 84.5   | 85.8   | 87.6 |       |       |       |       |       | 117.1 |
| BAR 29.8 HG        | 400    | 78.3   | 78.6   | 78.1   | 79.1   | 80.1   | 80.7   | 82.4   | 83.4   | 83.7   | 85.3   | 86.1 |       |       |       |       |       | 116.1 |
| (00534. N/M2)      | 500    | 76.6   | 76.9   | 76.4   | 78.1   | 79.6   | 80.2   | 82.9   | 84.2   | 83.7   | 85.1   | 85.1 |       |       |       |       |       | 115.0 |
| TAMB 41. DEG F     | 600    | 78.1   | 77.6   | 78.6   | 80.6   | 82.1   | 83.2   | 85.4   | 86.2   | 85.5   | 85.8   | 85.1 |       |       |       |       |       | 117.6 |
| (278. DEG K)       | 1000   | 81.3   | 78.9   | 80.1   | 81.6   | 83.6   | 84.2   | 85.4   | 86.2   | 86.0   | 85.6   | 84.4 |       |       |       |       |       | 118.1 |
| TNET 36. DEG F     | 1200   | 77.1   | 77.9   | 78.4   | 80.6   | 82.4   | 84.2   | 86.1   | 87.1   | 87.2   | 85.8   | 83.6 |       |       |       |       |       | 118.2 |
| (275. DEG K)       | 1500   | 77.9   | 78.4   | 80.1   | 82.7   | 84.9   | 86.5   | 88.4   | 88.1   | 88.2   | 85.9   | 83.0 |       |       |       |       |       | 119.8 |
| HACT 4.15 GM/M3    | 2000   | 79.9   | 81.4   | 82.9   | 85.5   | 88.0   | 90.0   | 91.3   | 90.9   | 90.0   | 86.6   | 83.4 |       |       |       |       |       | 122.3 |
| (00415 KG/M3)      | 2500   | 82.2   | 82.5   | 81.6   | 85.5   | 88.7   | 90.5   | 100.3  | 101.6  | 99.8   | 94.9   | 90.4 |       |       |       |       |       | 131.8 |
| NFA 7820. RPM      | 3000   | 82.4   | 84.5   | 86.4   | 90.7   | 93.3   | 94.8   | 95.3   | 93.9   | 93.8   | 88.4   | 84.9 |       |       |       |       |       | 126.3 |
| ( 819. RAD/SEC)    | 3500   | 82.4   | 84.2   | 86.9   | 90.1   | 93.0   | 94.8   | 96.8   | 95.1   | 95.8   | 90.2   | 85.8 |       |       |       |       |       | 127.2 |
| NFK 7959. RPM      | 4000   | 84.6   | 86.5   | 89.6   | 92.9   | 95.5   | 97.0   | 99.2   | 99.3   | 99.2   | 94.4   | 90.0 |       |       |       |       |       | 130.3 |
| ( 833. RAD/SEC)    | 5000   | 81.6   | 84.4   | 86.8   | 90.8   | 93.2   | 95.5   | 97.7   | 97.2   | 96.2   | 91.6   | 86.2 |       |       |       |       |       | 128.2 |
| NFD 8823. RPM      | 6000   | 81.9   | 84.8   | 86.8   | 91.5   | 93.6   | 97.0   | 98.5   | 98.1   | 98.7   | 91.8   | 86.8 |       |       |       |       |       | 129.4 |
| ( 924. RAD/SEC)    | 8000   | 79.1   | 82.2   | 85.1   | 88.5   | 91.3   | 94.1   | 96.5   | 97.5   | 96.1   | 90.8   | 84.9 |       |       |       |       |       | 127.6 |
| NO. OF BLADES 15   | 10000  | 78.9   | 82.1   | 84.9   | 88.6   | 91.9   | 94.0   | 96.5   | 97.1   | 97.2   | 91.1   | 85.9 |       |       |       |       |       | 127.9 |
| FAN TIP SPEED      | 12000  | 78.7   | 80.8   | 83.5   | 87.7   | 90.9   | 92.9   | 95.9   | 96.7   | 95.9   | 90.5   | 85.1 |       |       |       |       |       | 127.3 |
| ( 683. FT/SEC)     | 16000  | 76.0   | 78.3   | 80.4   | 84.4   | 88.1   | 90.4   | 93.0   | 94.5   | 93.5   | 87.5   | 82.8 |       |       |       |       |       | 125.0 |
|                    | 20000  | 76.5   | 78.2   | 80.1   | 84.5   | 87.4   | 89.5   | 93.2   | 95.3   | 94.4   | 88.0   | 83.1 |       |       |       |       |       | 125.9 |
|                    | 25000  | 76.9   | 77.4   | 78.9   | 83.7   | 86.4   | 88.7   | 92.9   | 94.5   | 94.1   | 88.4   | 82.4 |       |       |       |       |       | 125.0 |
|                    | 31500  | 76.3   | 76.5   | 77.9   | 82.2   | 85.4   | 87.6   | 91.2   | 93.2   | 92.6   | 86.5   | 79.8 |       |       |       |       |       | 125.4 |
|                    | 40000  | 76.9   | 74.6   | 75.2   | 80.2   | 82.5   | 85.1   | 88.5   | 89.6   | 89.3   | 84.0   | 75.7 |       |       |       |       |       | 123.7 |
|                    | 50000  | 78.6   | 72.5   | 73.0   | 78.5   | 79.9   | 81.2   | 85.4   | 85.1   | 84.7   | 80.5   | 71.7 |       |       |       |       |       | 121.9 |
|                    | 63000  | 80.2   | 72.9   | 73.2   | 78.6   | 79.1   | 79.6   | 81.3   | 81.8   | 81.5   | 76.3   | 70.1 |       |       |       |       |       | 122.2 |
|                    | 80000  | 82.5   | 76.1   | 77.4   | 81.6   | 81.9   | 82.6   | 84.6   | 85.7   | 84.4   | 79.1   | 72.7 |       |       |       |       |       | 129.5 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |      |       |       |       |       |       |       |
| OVERALL CALCULATED | 95.3   | 97.0   | 98.2   | 101.8  | 104.1  | 106.1  | 108.2  | 108.7  | 108.1  | 103.4  | 100.6  |      |       |       |       |       |       | 148.2 |
| PNDR               | 108.1  | 110.4  | 111.4  | 114.6  | 117.0  | 118.6  | 120.6  | 120.7  | 120.5  | 116.4  | 113.1  |      |       |       |       |       |       |       |

|                    | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | (10. | (10. | (10. | (10. | (10. |
| SIDELINE 200. FT.  | 100    | 48.6   | 50.7   | 52.1   | 53.7   | 54.3   | 54.4   | 55.9   | 56.6   | 56.0   | 57.0   | 57.5 |      |      |      |      |      |
| ( 60.96 M)         | 125    | 53.5   | 55.6   | 55.0   | 56.1   | 57.0   | 57.6   | 59.3   | 59.8   | 58.7   | 59.4   | 57.9 |      |      |      |      |      |
| VEHICLE R-55       | 160    | 52.1   | 54.2   | 54.4   | 55.5   | 56.4   | 56.5   | 58.5   | 58.9   | 59.1   | 58.5   | 57.1 |      |      |      |      |      |
| CONFIG 10          | 200    | 51.5   | 51.9   | 52.8   | 55.2   | 57.3   | 58.4   | 58.9   | 59.8   | 59.5   | 59.9   | 58.2 |      |      |      |      |      |
| LCC SCHEMECTADY    | 250    | 54.9   | 55.8   | 57.5   | 58.8   | 63.0   | 60.6   | 62.1   | 62.5   | 61.8   | 60.7   | 58.5 |      |      |      |      |      |
| DATE 11/22/74      | 315    | 55.3   | 56.7   | 57.4   | 58.5   | 59.5   | 59.5   | 60.2   | 61.1   | 59.5   | 58.6   | 56.5 |      |      |      |      |      |
| RUN 23/5           | 450    | 54.0   | 55.4   | 55.6   | 56.9   | 58.1   | 58.4   | 59.6   | 59.8   | 58.6   | 57.9   | 54.6 |      |      |      |      |      |
| TAPE               | 500    | 52.2   | 53.5   | 53.7   | 55.9   | 57.5   | 57.9   | 60.0   | 60.4   | 58.5   | 57.5   | 53.5 |      |      |      |      |      |
| BAR 26.8 HG        | 630    | 53.6   | 54.2   | 55.9   | 58.3   | 59.9   | 60.8   | 62.4   | 62.3   | 60.1   | 59.1   | 53.3 |      |      |      |      |      |
| (00534. H/P2)      | 830    | 56.7   | 55.3   | 57.2   | 59.2   | 61.3   | 61.7   | 62.5   | 62.2   | 60.4   | 57.6   | 52.2 |      |      |      |      |      |
| TAMB 41. DEG F     | 1000   | 52.3   | 54.1   | 55.3   | 58.0   | 59.3   | 61.6   | 62.9   | 63.0   | 61.5   | 57.7   | 51.1 |      |      |      |      |      |
| (278. DEG K)       | 1250   | 52.9   | 54.5   | 57.0   | 60.9   | 62.3   | 63.7   | 65.3   | 63.8   | 62.3   | 57.4   | 51.0 |      |      |      |      |      |
| T-ET 36. DEG F     | 1600   | 54.7   | 57.3   | 59.5   | 62.6   | 65.2   | 67.0   | 67.8   | 66.4   | 63.9   | 57.9   | 50.1 |      |      |      |      |      |
| (275. DEG K)       | 2000   | 63.7   | 68.2   | 68.1   | 72.4   | 73.8   | 75.4   | 76.6   | 76.9   | 73.4   | 65.9   | 56.6 |      |      |      |      |      |
| HACT 4.15 CM/MT    | 2500   | 56.7   | 60.0   | 62.7   | 67.1   | 70.1   | 71.5   | 71.4   | 68.9   | 67.1   | 59.1   | 50.7 |      |      |      |      |      |
| (.00415 KG/MS)     | 3150   | 54.4   | 59.4   | 62.9   | 68.6   | 69.6   | 71.2   | 72.6   | 69.8   | 68.7   | 60.3   | 50.9 |      |      |      |      |      |
| NFA 7820. RPM      | 4000   | 59.1   | 61.2   | 65.1   | 68.9   | 71.7   | 73.0   | 74.6   | 73.5   | 71.8   | 63.8   | 54.0 |      |      |      |      |      |
| ( 819. RAD/SEC)    | 5000   | 54.7   | 58.9   | 62.1   | 66.8   | 69.2   | 71.2   | 72.8   | 71.2   | 68.2   | 60.6   | 49.6 |      |      |      |      |      |
| NFK 7959. RPM      | 6300   | 54.2   | 58.4   | 61.3   | 68.6   | 68.9   | 72.0   | 72.8   | 71.2   | 69.8   | 59.5   | 48.4 |      |      |      |      |      |
| ( 833. RAD/SEC)    | 8000   | 49.9   | 54.6   | 58.5   | 62.5   | 65.5   | 68.1   | 69.7   | 69.4   | 65.6   | 56.6   | 43.7 |      |      |      |      |      |
| MFD 8823. RPM      | 10000  | 47.8   | 52.8   | 56.7   | 61.0   | 64.6   | 66.4   | 68.1   | 67.1   | 64.7   | 54.2   | 40.7 |      |      |      |      |      |
| ( 924. RAD/SEC)    | 12500  | 44.8   | 49.3   | 53.0   | 57.3   | 61.3   | 63.1   | 65.1   | 64.1   | 60.3   | 49.6   | 34.2 |      |      |      |      |      |
| NO. OF BLADES 15   | 16000  | 37.5   | 42.3   | 46.1   | 50.9   | 55.0   | 58.9   | 58.3   | 57.6   | 52.8   | 40.3   | 22.5 |      |      |      |      |      |
| FAN TIP SPEED      | 20000  | 31.9   | 36.7   | 40.7   | 46.3   | 49.5   | 51.2   | 53.4   | 52.7   | 47.3   | 32.3   | 10.3 |      |      |      |      |      |
| 683. FT/SEC        | 25000  | 23.6   | 28.1   | 32.3   | 38.6   | 41.7   | 43.5   | 45.8   | 43.8   | 37.2   | 28.6   |      |      |      |      |      |      |
|                    | 31500  | 9.9    | 15.9   | 20.8   | 27.1   | 30.8   | 32.2   | 33.3   | 30.7   | 21.9   | 8.9    |      |      |      |      |      |      |
|                    | 40000  |        |        | 2.4    | 10.0   | 13.1   | 14.7   | 14.7   | 9.4    |        |        |      |      |      |      |      |      |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| OVERALL CALCULATED |        | 68.8   | 72.0   | 73.6   | 77.5   | 79.8   | 81.5   | 82.7   | 81.8   | 79.4   | 73.0   | 67.7 |      |      |      |      |      |
| PNDB               |        | 82.3   | 85.8   | 87.1   | 91.0   | 93.3   | 94.8   | 96.1   | 95.3   | 93.1   | 86.3   | 78.0 |      |      |      |      |      |

NOISE SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. EAV)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | 53    | 62    | 71    | 81    | 91    | 101   | 111   | 122   | 133   | 145   | 156   | 0     | 0    | 0    | 0 | 0 | 0 | 0 | 0 | PWL |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|---|---|---|---|---|-----|
| FREQ.               | 10.92 | 11.08 | 11.24 | 11.41 | 11.58 | 11.76 | 11.94 | 12.13 | 12.33 | 12.52 | 12.73 | 0     | 0    | 0    | 0 | 0 | 0 | 0 | 0 | 0   |
| 50                  |       |       |       |       |       |       |       |       |       |       |       |       |      |      |   |   |   |   |   |     |
| 63                  |       |       |       |       |       |       |       |       |       |       |       |       |      |      |   |   |   |   |   |     |
| 80                  |       |       |       |       |       |       |       |       |       |       |       |       |      |      |   |   |   |   |   |     |
| RADIAL 17. FT.      |       |       |       |       |       |       |       |       |       |       |       |       |      |      |   |   |   |   |   |     |
| ( 5. M)             |       |       |       |       |       |       |       |       |       |       |       |       |      |      |   |   |   |   |   |     |
| VEHICLE R-55        | 100   | 71.8  | 74.4  | 78.9  | 80.0  | 81.1  | 80.2  | 77.9  | 72.2  | 70.2  | 74.6  | 76.9  |      |      |   |   |   |   |   |     |
| CONFIC 18           | 125   | 68.5  | 66.4  | 71.9  | 69.4  | 70.4  | 67.9  | 68.4  | 67.9  | 68.4  | 70.9  | 72.0  | 73.3 | 75.1 |   |   |   |   |   |     |
| LOC SCHENECTADY     | 160   | 65.8  | 66.6  | 66.9  | 67.7  | 68.4  | 67.9  | 69.4  | 70.4  | 72.0  | 73.0  | 75.0  |      |      |   |   |   |   |   |     |
| DATE 11/22/74       | 200   | 65.8  | 68.6  | 67.9  | 67.7  | 70.1  | 70.6  | 71.4  | 72.9  | 73.5  | 76.1  | 77.1  |      |      |   |   |   |   |   |     |
| RUN 23/6            | 250   | 64.0  | 67.9  | 69.4  | 69.6  | 70.4  | 70.1  | 72.6  | 72.6  | 73.5  | 75.1  | 75.0  |      |      |   |   |   |   |   |     |
| TAPE                | 315   | 69.5  | 70.9  | 71.1  | 70.9  | 71.6  | 71.9  | 72.6  | 72.6  | 73.5  | 74.9  | 75.1  |      |      |   |   |   |   |   |     |
| GAR 29.8 MG         | 400   | 69.1  | 69.9  | 69.9  | 70.2  | 70.1  | 71.2  | 72.6  | 72.9  | 73.0  | 74.6  | 74.3  |      |      |   |   |   |   |   |     |
| (30534. N/M2)       | 500   | 66.6  | 68.1  | 67.4  | 68.4  | 70.4  | 71.2  | 72.9  | 73.7  | 74.2  | 75.1  | 74.1  |      |      |   |   |   |   |   |     |
| TAMR 41. DEG F      | 630   | 69.4  | 69.6  | 70.9  | 72.4  | 73.7  | 75.2  | 76.9  | 77.2  | 77.5  | 77.6  | 75.1  |      |      |   |   |   |   |   |     |
| (274. DEG K)        | 800   | 71.4  | 71.6  | 72.0  | 72.7  | 74.9  | 75.7  | 77.3  | 78.2  | 78.5  | 78.3  | 74.9  |      |      |   |   |   |   |   |     |
| T-ET 36. DEG K      | 1000  | 68.6  | 70.4  | 70.4  | 72.9  | 74.4  | 76.2  | 78.6  | 79.9  | 80.5  | 80.6  | 74.1  |      |      |   |   |   |   |   |     |
| (275. DEG K)        | 1250  | 79.2  | 77.7  | 77.6  | 81.0  | 83.9  | 85.7  | 88.1  | 87.9  | 87.5  | 87.9  | 61.4  |      |      |   |   |   |   |   |     |
| MACT 4.15 G/M3      | 1600  | 75.4  | 75.4  | 77.1  | 79.6  | 82.3  | 84.0  | 85.6  | 86.1  | 84.7  | 84.9  | 78.1  |      |      |   |   |   |   |   |     |
| (1.00415 G/M3)      | 2000  | 75.4  | 75.7  | 77.9  | 80.3  | 82.7  | 84.0  | 85.3  | 85.1  | 84.8  | 83.9  | 78.4  |      |      |   |   |   |   |   |     |
| NFA 5470. RPM       | 2500  | 76.9  | 77.7  | 79.6  | 81.9  | 84.5  | 87.0  | 88.6  | 89.6  | 91.8  | 89.4  | 82.6  |      |      |   |   |   |   |   |     |
| ( 573. RAD/SEC)     | 3100  | 74.9  | 76.7  | 78.4  | 80.9  | 83.8  | 86.3  | 87.8  | 87.8  | 88.8  | 87.9  | 80.3  |      |      |   |   |   |   |   |     |
| NPK 5567. RPM       | 4000  | 73.7  | 76.0  | 77.1  | 80.9  | 84.3  | 86.0  | 88.5  | 88.8  | 89.7  | 86.6  | 80.3  |      |      |   |   |   |   |   |     |
| ( 593. RAD/SEC)     | 5000  | 71.9  | 73.7  | 75.3  | 79.1  | 82.8  | 85.2  | 88.7  | 87.2  | 88.4  | 85.8  | 78.2  |      |      |   |   |   |   |   |     |
| NFD 8823. RPM       | 6300  | 70.7  | 72.5  | 73.8  | 78.3  | 81.6  | 83.5  | 85.7  | 87.3  | 87.7  | 84.3  | 77.8  |      |      |   |   |   |   |   |     |
| ( 924. RAD/SEC)     | 8000  | 68.4  | 71.5  | 73.1  | 76.8  | 80.1  | 82.1  | 84.5  | 85.3  | 86.8  | 83.5  | 76.2  |      |      |   |   |   |   |   |     |
| NC. OF BLADES 15    | 10000 | 67.7  | 70.3  | 72.6  | 76.1  | 79.4  | 81.5  | 83.8  | 84.8  | 86.7  | 83.6  | 76.6  |      |      |   |   |   |   |   |     |
| FAN TIP SPEED 16000 | 12500 | 67.5  | 69.1  | 70.0  | 74.2  | 77.7  | 80.2  | 83.2  | 84.4  | 85.9  | 82.5  | 75.6  |      |      |   |   |   |   |   |     |
| 478. FT/SEC         | 20000 | 64.5  | 66.8  | 67.4  | 71.4  | 75.4  | 77.4  | 81.5  | 82.2  | 84.2  | 80.0  | 73.8  |      |      |   |   |   |   |   |     |
| 25000               | 31500 | 64.8  | 66.2  | 66.9  | 70.6  | 74.2  | 76.5  | 79.4  | 82.3  | 84.6  | 79.5  | 72.8  |      |      |   |   |   |   |   |     |
| 40000               | 50000 | 64.9  | 67.4  | 68.2  | 69.2  | 72.4  | 74.5  | 77.7  | 80.0  | 81.3  | 77.4  | 70.7  |      |      |   |   |   |   |   |     |
| 63000               | 80000 | 64.7  | 67.0  | 65.2  | 68.5  | 71.4  | 73.9  | 76.9  | 79.5  | 80.1  | 76.5  | 68.8  |      |      |   |   |   |   |   |     |
| OVERALL MEASURED    |       | 64.2  | 67.3  | 65.0  | 65.7  | 68.2  | 70.9  | 74.2  | 76.1  | 77.3  | 73.5  | 65.0  |      |      |   |   |   |   |   |     |
| OVERALL CALCULATED  |       | 46.6  | 69.3  | 66.5  | 66.0  | 66.9  | 68.7  | 71.4  | 71.3  | 72.7  | 70.0  | 64.2  |      |      |   |   |   |   |   |     |
| PWDR                |       | 68.2  | 69.2  | 68.0  | 66.4  | 66.9  | 68.3  | 69.6  | 67.1  | 68.0  | 66.8  | 64.1  |      |      |   |   |   |   |   |     |
|                     |       | 70.8  | 69.1  | 69.4  | 67.2  | 68.4  | 69.8  | 71.1  | 69.5  | 68.2  | 67.9  | 65.7  |      |      |   |   |   |   |   |     |
|                     |       | 86.3  | 87.1  | 88.6  | 91.1  | 93.7  | 95.6  | 97.5  | 98.2  | 99.1  | 97.2  | 91.4  |      |      |   |   |   |   |   |     |
|                     |       | 98.7  | 99.8  | 101.4 | 103.8 | 106.6 | 108.5 | 110.4 | 110.8 | 112.0 | 110.3 | 104.5 |      |      |   |   |   |   |   |     |

OF POOR QUALITY

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 78 PERCENT REL. HUM. DAVI)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.              | ANGLES FROM INLET IN DEGREES (AND RADIANS) |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                    | 0.   | 10.  | 20.  | 30.  | 45.  | 60.  | 75.  | 90.  | 105. | 120. | 135. | 150. | 165. | 180. |
| 50                 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 63                 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 80                 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |
| SIDELINE 200. FT.  |  |      |      |      |      |      |      |      |      |      |      |      |      |      |
| ( 50.56 M)         | 100  | 49.1 | 51.7 | 56.8 | 59.2 | 59.5 | 58.4 | 55.7 | 49.1 | 45.8 | 48.0 | 46.8 |      |      |
| VEHICLE R-55       | 125  | 44.8 | 43.6 | 49.7 | 47.8 | 48.7 | 46.1 | 46.1 | 47.8 | 47.4 | 48.7 | 44.9 |      |      |
| CCNFC 18           | 160  | 41.9 | 43.7 | 44.7 | 45.8 | 46.6 | 48.0 | 47.0 | 47.2 | 47.3 | 47.0 | 45.1 |      |      |
| LCC SCHENECTADY    | 200  | 41.9 | 45.6 | 45.4 | 45.7 | 48.3 | 48.7 | 48.9 | 49.6 | 48.7 | 49.1 | 48.4 |      |      |
| DATE 11/22/74      | 250  | 44.0 | 44.8 | 47.0 | 47.6 | 48.5 | 48.1 | 50.1 | 49.2 | 48.6 | 49.0 | 49.0 |      |      |
| RUN 23/6           | 315  | 45.4 | 47.7 | 48.6 | 48.9 | 49.7 | 49.8 | 50.0 | 49.1 | 48.5 | 47.6 | 44.8 |      |      |
| TAPE               | 400  | 43.8 | 48.8 | 47.3 | 48.0 | 49.1 | 48.9 | 49.9 | 49.3 | 47.9 | 47.2 | 43.0 |      |      |
| BAR 29.9 HG        | 500  | 42.4 | 44.8 | 44.7 | 46.2 | 49.2 | 48.9 | 50.0 | 49.9 | 49.0 | 47.9 | 42.9 |      |      |
| (80534. N/M2)      | 630  | 44.8 | 48.2 | 48.1 | 50.1 | 51.4 | 52.8 | 53.9 | 53.3 | 52.1 | 49.8 | 43.3 |      |      |
| TAHR 41. JEC F     | 800  | 44.7 | 48.0 | 50.0 | 50.2 | 52.5 | 53.2 | 54.3 | 54.2 | 52.9 | 50.4 | 42.7 |      |      |
| (278. JEC K1)      | 1000                                       | 43.8 | 48.6 | 47.3 | 50.3 | 51.9 | 53.6 | 55.4 | 55.8 | 54.8 | 52.4 | 41.6 |      |      |
| T-CT 36. JEC F     | 1250                                       | 54.2 | 53.8 | 54.5 | 58.3 | 61.3 | 62.9 | 64.8 | 63.6 | 61.6 | 59.4 | 48.5 |      |      |
| (275. JEC K1)      | 1600                                       | 50.2 | 51.3 | 53.4 | 54.8 | 59.2 | 61.0 | 62.1 | 61.8 | 58.8 | 56.2 | 44.9 |      |      |
| MACT 4.15 CM/M3    | 2000                                       | 50.0 | 51.4 | 54.3 | 57.2 | 59.8 | 60.9 | 61.8 | 66.4 | 58.4 | 54.8 | 44.8 |      |      |
| (.00415 KG/M3)     | 2500                                       | 51.3 | 53.2 | 55.9 | 58.6 | 61.4 | 63.7 | 64.7 | 64.7 | 65.1 | 60.1 | 48.4 |      |      |
| NFA 5470. RPM      | 3150                                       | 49.9 | 51.9 | 54.4 | 57.4 | 60.4 | 62.7 | 63.6 | 62.8 | 61.7 | 58.1 | 45.4 |      |      |
| ( 573. RAD/SEC)    | 4000                                       | 47.1 | 50.7 | 52.6 | 56.9 | 60.2 | 62.0 | 63.9 | 63.0 | 62.1 | 56.0 | 44.3 |      |      |
| NPK 5587. RPM      | 5000                                       | 45.3 | 49.1 | 51.1 | 54.9 | 58.7 | 60.9 | 61.8 | 61.2 | 60.5 | 54.8 | 41.6 |      |      |
| ( 583. RAD/SEC)    | 6300                                       | 42.9 | 48.2 | 48.3 | 53.4 | 56.9 | 58.5 | 60.1 | 60.4 | 58.8 | 52.0 | 39.4 |      |      |
| NPD 8823. RPM      | 8000                                       | 39.2 | 43.9 | 46.5 | 50.8 | 54.3 | 56.1 | 57.7 | 57.1 | 56.1 | 49.3 | 34.9 |      |      |
| ( 924. RAD/SEC)    | 10000                                      | 36.6 | 41.0 | 44.4 | 48.6 | 52.1 | 53.9 | 55.4 | 54.8 | 54.2 | 46.7 | 31.4 |      |      |
| NO. OF BLADES 19   | 12500                                      | 33.8 | 37.2 | 39.5 | 44.4 | 48.3 | 50.3 | 52.4 | 51.8 | 50.3 | 41.8 | 24.7 |      |      |
| FAN TIP SPEED      | 16000                                      | 26.0 | 30.8 | 33.1 | 38.0 | 42.2 | 43.9 | 46.8 | 45.3 | 43.5 | 32.8 | 13.5 |      |      |
| 478. FT/SEC        | 20000                                      | 20.1 | 24.7 | 27.5 | 32.3 | 36.3 | 38.2 | 39.8 | 39.7 | 37.3 | 23.8 | 8.0  |      |      |
|                    | 25000                                      | 11.6 | 18.1 | 19.6 | 24.1 | 27.7 | 29.2 | 30.6 | 29.3 | 24.5 | 9.6  |      |      |      |
|                    | 31500                                      |      | 6.4  | 8.0  | 13.4 | 16.8 | 18.5 | 19.1 | 16.8 | 9.4  |      |      |      |      |
|                    | 40000                                      |      |      |      |      |      | 0.5  | 0.5  |      |      |      |      |      |      |
|                    | 50000                                      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                    | 63000                                      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                    | 80000                                      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| OVERALL CALCULATED | 60.5                                       | 62.3 | 64.7 | 67.6 | 70.1 | 71.7 | 72.8 | 72.2 | 71.2 | 67.1 | 57.7 |      |      |      |
| PMSE               | 72.7                                       | 74.9 | 77.4 | 80.2 | 83.0 | 84.8 | 86.0 | 85.8 | 85.1 | 80.8 | 69.8 |      |      |      |



|                    | FREQ. | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.     | 0.     | 0.     | 0.     | 0.     | 0.     | PWL   |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
|                    |       | (0.92) | (1.03) | (1.14) | (1.24) | (1.35) | (1.46) | (1.54) | (1.64) | (1.73) | (1.82) | (1.91) | (2.00) | (2.09) | (2.18) | (2.27) | (2.35) | (2.44) |       |
| RADIAL 17. FT.     | 50    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
| ( 5. M)            | 63    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
| VEHICLE            | 100   | 73.2   | 76.4   | 79.9   | 81.9   | 81.9   | 80.9   | 77.4   | 71.9   | 71.7   | 75.3   | 76.9   |        |        |        |        |        |        | 112.0 |
| CONFIG             | 125   | 69.7   | 69.1   | 72.6   | 69.2   | 70.6   | 68.4   | 68.1   | 70.9   | 71.0   | 72.6   | 74.7   |        |        |        |        |        |        | 104.8 |
| LCC                | 160   | 66.7   | 67.4   | 68.1   | 67.2   | 67.1   | 67.7   | 69.4   | 70.4   | 71.7   | 73.6   | 75.2   |        |        |        |        |        |        | 104.0 |
| DATE 11/27/74      | 200   | 65.7   | 66.6   | 66.9   | 64.9   | 64.1   | 69.9   | 70.6   | 72.4   | 73.2   | 75.3   | 76.4   |        |        |        |        |        |        | 103.2 |
| RLH 24/4           | 250   | 66.7   | 68.4   | 68.9   | 64.9   | 69.6   | 70.6   | 71.3   | 72.1   | 72.7   | 74.1   | 75.4   |        |        |        |        |        |        | 105.3 |
| TAFE               | 315   | 69.5   | 70.9   | 71.1   | 71.7   | 71.9   | 72.4   | 72.6   | 72.1   | 73.2   | 74.6   | 74.6   |        |        |        |        |        |        | 106.4 |
| BAP 29.9 MG        | 400   | 65.8   | 70.1   | 69.4   | 70.4   | 70.6   | 72.2   | 72.4   | 72.6   | 73.0   | 74.1   | 74.4   |        |        |        |        |        |        | 105.9 |
| (101000 W/M2)      | 500   | 64.3   | 67.9   | 68.4   | 67.2   | 67.9   | 71.7   | 72.9   | 73.4   | 74.5   | 74.8   | 73.9   |        |        |        |        |        |        | 105.9 |
| TAMB 36. DEG F     | 600   | 69.3   | 70.1   | 71.9   | 72.2   | 73.9   | 75.7   | 77.1   | 77.7   | 77.5   | 77.3   | 74.9   |        |        |        |        |        |        | 109.3 |
| (1279. DEG W)      | 800   | 70.1   | 73.1   | 73.6   | 73.9   | 75.9   | 77.7   | 76.1   | 79.9   | 79.7   | 79.3   | 75.9   |        |        |        |        |        |        | 111.3 |
| TACT 34. DEG F     | 1000  | 70.1   | 71.1   | 72.4   | 74.4   | 77.6   | 80.2   | 82.8   | 84.9   | 85.0   | 84.8   | 79.7   |        |        |        |        |        |        | 115.2 |
| (1274. DEG W)      | 1250  | 84.6   | 81.9   | 85.9   | 87.5   | 92.7   | 94.7   | 97.3   | 98.1   | 98.0   | 94.1   | 86.4   |        |        |        |        |        |        | 120.0 |
| MACT 4.03 G/M3     | 1500  | 77.6   | 74.9   | 79.9   | 81.8   | 85.5   | 87.8   | 90.1   | 91.1   | 88.7   | 87.4   | 80.7   |        |        |        |        |        |        | 121.0 |
| (100403 KG/M3)     | 2000  | 74.4   | 76.2   | 79.1   | 80.6   | 83.0   | 85.0   | 85.6   | 86.4   | 85.5   | 84.9   | 80.2   |        |        |        |        |        |        | 117.6 |
| NFA 5428. RPM      | 2500  | 77.4   | 79.7   | 81.6   | 84.6   | 85.8   | 88.0   | 91.0   | 93.4   | 92.0   | 89.9   | 83.9   |        |        |        |        |        |        | 123.0 |
| (569. RAD/SEC)     | 3150  | 73.6   | 76.5   | 78.4   | 81.4   | 83.8   | 86.6   | 88.0   | 89.3   | 88.8   | 87.9   | 81.4   |        |        |        |        |        |        | 119.9 |
| NFX 5541. RPM      | 4000  | 73.3   | 76.0   | 77.8   | 82.2   | 84.9   | 87.5   | 88.2   | 90.3   | 89.9   | 88.9   | 81.6   |        |        |        |        |        |        | 120.7 |
| (580. RAD/SEC)     | 5000  | 71.5   | 73.4   | 76.5   | 77.9   | 83.8   | 86.0   | 86.7   | 87.7   | 88.4   | 86.1   | 79.5   |        |        |        |        |        |        | 118.6 |
| NFD 6023. RPM      | 6300  | 69.9   | 72.3   | 74.8   | 76.5   | 82.1   | 84.2   | 85.7   | 87.8   | 86.2   | 85.1   | 78.9   |        |        |        |        |        |        | 118.2 |
| (924. RAD/SEC)     | 8000  | 64.3   | 71.2   | 73.3   | 77.5   | 80.6   | 82.9   | 84.8   | 86.5   | 86.8   | 84.8   | 78.5   |        |        |        |        |        |        | 117.1 |
| NO. OF BLADES 15   | 10000 | 67.4   | 66.8   | 72.9   | 74.9   | 79.9   | 82.7   | 84.3   | 86.0   | 87.2   | 84.6   | 78.7   |        |        |        |        |        |        | 117.1 |
| FAN TIP SPEED      | 12500 | 67.4   | 66.6   | 71.7   | 75.2   | 79.1   | 81.4   | 83.9   | 85.4   | 86.4   | 83.7   | 78.2   |        |        |        |        |        |        | 118.5 |
| (474. FT/SEC)      | 16000 | 64.9   | 65.8   | 68.7   | 72.4   | 76.3   | 78.9   | 81.8   | 84.5   | 84.9   | 81.3   | 76.1   |        |        |        |        |        |        | 115.1 |
| OVERALL MEASURED   | 20000 | 63.6   | 65.8   | 64.0   | 71.0   | 75.1   | 77.9   | 80.4   | 83.5   | 84.8   | 81.0   | 75.3   |        |        |        |        |        |        | 114.8 |
| OVERALL CALCULATED | 25000 | 62.3   | 66.5   | 67.1   | 69.9   | 73.3   | 75.9   | 78.4   | 80.7   | 82.0   | 78.6   | 72.9   |        |        |        |        |        |        | 112.6 |
| PNCB               | 31500 | 61.8   | 66.3   | 66.3   | 69.1   | 72.0   | 75.5   | 77.5   | 80.1   | 81.0   | 77.9   | 71.0   |        |        |        |        |        |        | 113.1 |
|                    | 40000 | 60.9   | 65.4   | 65.0   | 66.5   | 68.8   | 72.5   | 74.8   | 76.7   | 77.6   | 74.6   | 65.1   |        |        |        |        |        |        | 111.3 |
|                    | 50000 | 62.0   | 66.5   | 66.0   | 67.1   | 66.6   | 69.0   | 71.5   | 72.1   | 73.0   | 71.1   | 61.0   |        |        |        |        |        |        | 109.8 |
|                    | 63000 | 63.1   | 65.9   | 67.2   | 65.1   | 66.1   | 67.1   | 68.3   | 67.6   | 68.6   | 67.6   | 66.7   |        |        |        |        |        |        | 109.7 |
|                    | 80000 | 63.6   | 67.0   | 69.1   | 66.1   | 67.9   | 68.2   | 69.3   | 68.4   | 69.7   | 69.3   | 63.5   |        |        |        |        |        |        | 114.9 |
| OVERALL MEASURED   |       | 87.9   | 88.3   | 90.9   | 93.5   | 96.5   | 98.7   | 100.9  | 102.1  | 101.1  | 99.3   | 93.2   |        |        |        |        |        |        | 132.5 |
| OVERALL CALCULATED |       | 99.1   | 101.0  | 103.0  | 105.7  | 107.7  | 110.1  | 112.3  | 113.7  | 112.9  | 111.3  | 105.9  |        |        |        |        |        |        |       |

MODEL SOUND PRESSURE LEVELS (50, DEG, F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | FREQ. | 53      | 62      | 71      | 81      | 91      | 101     | 111     | 122     | 133     | 145     | 156     | 167     | 178     | 189     | 200     |
|--------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                    |       | (10.92) | (11.08) | (11.24) | (11.41) | (11.58) | (11.76) | (11.94) | (12.13) | (12.32) | (12.52) | (12.73) | (12.94) | (13.16) | (13.38) | (13.61) |
| SIDE LINE 200. FTA | 50    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| ( 60.98 N )        | 63    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| VEHICLE R-SS       | 80    | 49.5    | 53.7    | 57.6    | 60.2    | 60.3    | 59.2    | 55.2    | 48.8    | 47.3    | 46.8    | 46.8    |         |         |         |         |
| COMPIC 100         | 125   | 45.0    | 46.3    | 50.5    | 47.4    | 49.0    | 46.6    | 45.8    | 47.8    | 46.4    | 45.9    | 44.4    |         |         |         |         |
| LTC SCHEMECTADY    | 160   | 42.9    | 44.3    | 45.9    | 45.3    | 45.4    | 45.8    | 47.0    | 47.2    | 47.1    | 46.8    | 44.7    |         |         |         |         |
| DATE 11/27/74      | 200   | 41.8    | 43.6    | 44.3    | 45.0    | 46.3    | 47.9    | 48.2    | 49.1    | 48.5    | 48.4    | 45.7    |         |         |         |         |
| RUN 24/4           | 250   | 42.6    | 45.3    | 46.5    | 46.9    | 47.7    | 48.6    | 48.8    | 48.7    | 47.8    | 47.8    | 44.5    |         |         |         |         |
| TAPE               | 315   | 45.3    | 47.7    | 48.6    | 49.6    | 49.9    | 50.3    | 50.0    | 48.6    | 48.2    | 47.3    | 43.5    |         |         |         |         |
| BAR 20.0 HG        | 400   | 44.5    | 46.9    | 48.8    | 48.2    | 48.6    | 49.9    | 49.6    | 49.0    | 47.9    | 46.7    | 43.1    |         |         |         |         |
| (01000. RPM)       | 500   | 41.9    | 44.5    | 45.7    | 46.9    | 47.7    | 49.4    | 50.0    | 49.7    | 49.2    | 47.3    | 42.3    |         |         |         |         |
| TAMU 38. DEG F     | 630   | 44.8    | 46.7    | 49.1    | 49.8    | 51.7    | 53.3    | 54.2    | 53.8    | 52.1    | 49.6    | 43.1    |         |         |         |         |
| (276. DEG N)       | 800   | 45.4    | 49.5    | 50.7    | 51.5    | 53.5    | 55.2    | 56.0    | 55.9    | 54.2    | 51.4    | 43.8    |         |         |         |         |
| THET 34. DEG F     | 1000  | 45.2    | 47.4    | 49.3    | 51.8    | 55.2    | 57.6    | 59.7    | 60.8    | 59.3    | 56.7    | 47.2    |         |         |         |         |
| (274. DEG N)       | 1250  | 52.6    | 58.3    | 62.7    | 65.8    | 70.1    | 71.9    | 74.0    | 73.8    | 70.1    | 65.7    | 53.6    |         |         |         |         |
| MACT 4.03 GM/H3    | 1600  | 52.4    | 52.8    | 56.5    | 58.9    | 62.7    | 64.8    | 66.6    | 66.6    | 62.6    | 58.7    | 47.4    |         |         |         |         |
| (100403 RPM)       | 2000  | 48.9    | 51.9    | 54.6    | 57.5    | 60.8    | 61.9    | 61.9    | 61.7    | 59.1    | 55.8    | 46.4    |         |         |         |         |
| NFA 5424. RPM      | 2500  | 51.7    | 55.2    | 57.9    | 61.4    | 62.6    | 64.7    | 67.9    | 68.4    | 65.4    | 66.6    | 49.7    |         |         |         |         |
| (548. RAD/SEC)     | 3150  | 47.6    | 51.7    | 54.4    | 57.9    | 60.4    | 63.2    | 63.9    | 64.1    | 61.7    | 58.1    | 46.5    |         |         |         |         |
| WFK 5541. RPM      | 4000  | 46.8    | 53.7    | 53.4    | 58.2    | 61.0    | 63.5    | 63.6    | 64.5    | 62.4    | 58.3    | 45.6    |         |         |         |         |
| (586. RAD/SEC)     | 5000  | 44.7    | 47.9    | 51.8    | 55.7    | 59.7    | 61.7    | 61.8    | 61.7    | 60.5    | 55.1    | 42.9    |         |         |         |         |
| WFE 6823. RPM      | 6300  | 42.1    | 45.9    | 49.3    | 53.6    | 57.4    | 59.2    | 60.1    | 60.9    | 59.3    | 52.6    | 40.4    |         |         |         |         |
| (924. RAD/SEC)     | 8000  | 39.1    | 43.6    | 46.7    | 51.5    | 54.6    | 56.8    | 57.9    | 58.4    | 56.4    | 50.6    | 37.2    |         |         |         |         |
| NO. OF BLADES 15   | 10000 | 36.3    | 40.5    | 44.7    | 49.3    | 52.6    | 55.1    | 55.9    | 56.1    | 54.6    | 47.7    | 33.5    |         |         |         |         |
| FAN TIP SPEED      | 12500 | 33.5    | 37.7    | 41.2    | 45.4    | 49.6    | 51.6    | 53.1    | 52.8    | 50.8    | 42.9    | 27.2    |         |         |         |         |
| 474. FT/SEC        | 16000 | 28.4    | 30.6    | 34.3    | 39.2    | 43.2    | 45.3    | 47.1    | 47.6    | 44.3    | 34.6    | 15.7    |         |         |         |         |
|                    | 20000 | 19.0    | 24.4    | 28.6    | 32.7    | 37.2    | 39.6    | 40.6    | 40.9    | 37.5    | 25.2    | 2.5     |         |         |         |         |
|                    | 25000 | 9.0     | 17.3    | 20.5    | 24.8    | 28.6    | 30.6    | 31.3    | 30.6    | 25.2    | 10.8    |         |         |         |         |         |
|                    | 31500 |         | 5.7     | 9.2     | 14.0    | 17.5    | 20.1    | 19.7    | 17.6    | 10.3    |         |         |         |         |         |         |
|                    | 40000 |         |         |         |         |         | 2.1     | 1.1     |         |         |         |         |         |         |         |         |
|                    | 50000 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                    | 63000 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                    | 80000 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| OVERALL CALCULATED |       | 62.6    | 63.8    | 67.3    | 70.2    | 73.3    | 75.2    | 76.9    | 76.9    | 73.8    | 69.8    | 59.4    |         |         |         |         |
| PMCF               |       | 73.1    | 76.2    | 79.0    | 82.2    | 84.4    | 86.3    | 88.2    | 88.5    | 85.9    | 81.6    | 71.2    |         |         |         |         |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PWC, DATE - MONDAY 11 MAY 27 MR. 14.0

MODEL SOUND PRESSURE LEVELS 159. DB. F. 70 PERCENT RLL, NUM. EAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                           | PWC   |       |       |       |       |       |       |       |       |       |       |       |      |      | PWL  |       |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
|                           | 53    | 62    | 71    | 81    | 91    | 101   | 111   | 122   | 133   | 145   | 156   | 167   | 178  | 189  |      |       |
| FREQ.                     | 10.92 | 11.08 | 11.24 | 11.41 | 11.58 | 11.76 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 13.0  | 13.0 | 13.0 | 13.0 | 13.0  |
| RADIAL 17. FT.            | 50    |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
| 1 5. HI                   | 63    |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
| VEHICLE R-55              | 100   | 74.5  | 75.9  | 73.9  | 72.9  | 71.1  | 71.7  | 70.6  | 70.2  | 73.0  | 76.8  | 80.2  |      |      |      | 100.2 |
| CONFIL 16R                | 125   | 70.0  | 70.4  | 72.1  | 71.4  | 71.4  | 72.7  | 70.9  | 73.9  | 75.0  | 76.0  | 79.4  |      |      |      | 107.7 |
| LCC SCHEDULETATY          | 160   | 63.5  | 69.6  | 69.9  | 77.4  | 70.4  | 72.7  | 72.1  | 73.9  | 75.5  | 78.6  | 80.4  |      |      |      | 100.0 |
| DATE 11/27/74             | 200   | 67.7  | 62.6  | 70.1  | 69.9  | 71.4  | 75.1  | 74.1  | 75.9  | 77.0  | 79.3  | 81.1  |      |      |      | 109.1 |
| RUN 24/5                  | 250   | 69.4  | 71.1  | 72.1  | 72.1  | 73.1  | 74.6  | 74.8  | 75.6  | 76.5  | 78.1  | 79.4  |      |      |      | 100.9 |
| TAPE                      | 315   | 79.0  | 73.6  | 74.1  | 74.7  | 74.9  | 77.2  | 76.1  | 76.1  | 76.7  | 79.1  | 79.4  |      |      |      | 110.2 |
| GAP 29.9 HG               | 400   | 70.0  | 72.1  | 72.1  | 72.4  | 73.4  | 74.4  | 74.6  | 75.6  | 76.5  | 78.1  | 78.4  |      |      |      | 100.9 |
| (101000 RPM/2)            | 500   | 64.3  | 70.1  | 70.6  | 72.2  | 72.7  | 74.2  | 75.9  | 76.9  | 77.7  | 80.1  | 77.7  |      |      |      | 109.4 |
| TANG 36 DEG F             | 630   | 71.7  | 72.6  | 74.1  | 74.9  | 76.9  | 78.2  | 79.4  | 80.2  | 80.5  | 80.6  | 78.2  |      |      |      | 112.0 |
| (276 DEG KI)              | 800   | 75.3  | 74.1  | 74.9  | 75.7  | 77.6  | 79.7  | 80.3  | 80.9  | 80.7  | 82.8  | 77.7  |      |      |      | 113.1 |
| T-ET 34 DEG F             | 1000  | 73.8  | 73.1  | 74.4  | 74.7  | 76.4  | 81.0  | 82.4  | 84.9  | 85.5  | 85.1  | 78.9  |      |      |      | 115.6 |
| (274 DEG KI)              | 1250  | 75.3  | 75.4  | 78.6  | 81.5  | 82.4  | 84.7  | 87.6  | 89.6  | 89.2  | 89.4  | 82.2  |      |      |      | 119.8 |
| HACT 4.03 G/PH3           | 1600  | 83.6  | 82.7  | 85.6  | 85.6  | 90.7  | 91.0  | 96.1  | 97.6  | 93.7  | 94.1  | 85.4  |      |      |      | 126.7 |
| (CO413 G/PH3)             | 2000  | 77.9  | 79.0  | 81.1  | 84.1  | 86.0  | 87.8  | 89.6  | 90.4  | 89.0  | 87.4  | 82.2  |      |      |      | 121.0 |
| NFA 6205 RPM              | 2500  | 76.1  | 79.2  | 81.1  | 84.4  | 86.5  | 88.5  | 90.8  | 90.1  | 89.8  | 87.9  | 81.4  |      |      |      | 121.5 |
| ( 650 RPM/SFC)            | 3150  | 79.4  | 81.5  | 83.6  | 86.7  | 89.3  | 92.5  | 95.5  | 96.1  | 96.3  | 93.4  | 86.4  |      |      |      | 126.6 |
| NFK 6335 RPM              | 4000  | 75.8  | 78.7  | 80.8  | 84.9  | 88.0  | 91.0  | 91.7  | 92.3  | 91.9  | 88.1  | 83.3  |      |      |      | 123.2 |
| ( 663 RPM/SEC)            | 5000  | 75.5  | 74.2  | 80.5  | 84.5  | 88.9  | 92.2  | 91.9  | 92.5  | 92.9  | 89.1  | 83.0  |      |      |      | 123.7 |
| NFD 6023 RPM              | 6300  | 73.9  | 76.5  | 79.3  | 82.5  | 86.4  | 89.7  | 90.7  | 91.5  | 92.2  | 87.3  | 82.1  |      |      |      | 122.2 |
| ( 924 RPM/SEC)            | 8000  | 71.5  | 75.0  | 78.1  | 82.3  | 85.1  | 87.6  | 88.8  | 90.5  | 91.0  | 86.8  | 81.7  |      |      |      | 121.2 |
| NO. OF BLADES 15          | 12500 | 70.9  | 74.3  | 77.4  | 81.6  | 84.7  | 87.5  | 88.8  | 90.5  | 91.7  | 87.1  | 82.4  |      |      |      | 121.4 |
| FAN TIP SPEED 542. FT/SEC | 16000 | 70.1  | 73.1  | 75.7  | 80.7  | 83.9  | 85.9  | 87.9  | 90.2  | 90.6  | 85.9  | 80.7  |      |      |      | 120.7 |
|                           | 20000 | 67.7  | 70.3  | 73.2  | 76.4  | 80.6  | 83.6  | 85.5  | 88.7  | 88.4  | 83.3  | 78.4  |      |      |      | 110.9 |
|                           | 25000 | 64.9  | 69.1  | 71.8  | 74.5  | 79.6  | 82.4  | 85.6  | 88.2  | 89.4  | 83.7  | 78.5  |      |      |      | 119.4 |
|                           | 31500 | 65.5  | 64.5  | 70.8  | 74.4  | 77.8  | 80.9  | 83.8  | 85.9  | 86.7  | 82.1  | 76.7  |      |      |      | 117.7 |
|                           | 40000 | 64.3  | 67.8  | 69.5  | 73.6  | 76.8  | 80.5  | 82.3  | 85.1  | 85.8  | 81.4  | 74.2  |      |      |      | 117.7 |
|                           | 50000 | 62.7  | 66.4  | 67.0  | 70.5  | 73.8  | 77.5  | 80.1  | 81.9  | 82.9  | 78.4  | 68.9  |      |      |      | 116.2 |
|                           | 63000 | 62.3  | 66.0  | 67.0  | 67.1  | 69.9  | 73.3  | 76.0  | 76.6  | 77.5  | 74.6  | 63.8  |      |      |      | 113.5 |
|                           | 83000 | 63.6  | 65.6  | 67.4  | 68.1  | 67.1  | 69.3  | 71.3  | 70.6  | 71.3  | 69.1  | 60.4  |      |      |      | 111.6 |
|                           | 83000 | 64.4  | 67.3  | 69.1  | 67.8  | 68.1  | 70.0  | 71.5  | 70.4  | 70.7  | 68.8  | 61.2  |      |      |      | 110.0 |
| OVERALL MEASURED          |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
| OVERALL CALCULATED        |       | 88.9  | 89.8  | 92.5  | 94.9  | 98.1  | 100.4 | 102.7 | 103.9 | 103.4 | 100.9 | 95.4  |      |      |      | 134.5 |
| PNDR                      |       | 101.7 | 103.5 | 105.7 | 109.3 | 111.4 | 113.7 | 119.9 | 116.7 | 116.6 | 114.4 | 106.7 |      |      |      |       |

|                    | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) |         |         |         |         |         |         |        |        |        |        |    |    |    |    |
|--------------------|-------|---|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|----|----|----|----|
|                    |       | 53.                                       | 62.     | 71.     | 81.     | 91.     | 101.    | 111.    | 122.   | 133.   | 145.   | 150.   | 0. | 0. | 0. | 0. |
|                    | 50    | (10.92)                                   | (11.68) | (12.24) | (13.41) | (14.30) | (15.01) | (15.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0. | 0. | 0. | 0. |
| SIDE LINE 200. FT. | 63    |   |         |         |         |         |         |         |        |        |        |        |    |    |    |    |
| ( 60.96 % )        | 80    |   |         |         |         |         |         |         |        |        |        |        |    |    |    |    |
| VEHICLE N-55       | 125   | 50.8                                      | 53.2    | 51.8    | 51.2    | 49.5    | 49.9    | 48.4    | 47.1   | 48.5   | 50.3   | 50.1   |    |    |    |    |
| CCF/FIC 10R        | 150   | 46.2                                      | 47.6    | 50.0    | 49.6    | 49.7    | 50.0    | 48.6    | 50.0   | 50.4   | 50.2   | 49.2   |    |    |    |    |
| LCC SCHEMECTADY    | 200   | 44.8                                      | 46.7    | 47.7    | 48.6    | 49.6    | 50.0    | 49.7    | 50.7   | 50.8   | 51.8   | 49.9   |    |    |    |    |
| DATE 11/27/74      | 250   | 43.8                                      | 45.6    | 47.4    | 48.0    | 49.6    | 53.2    | 51.7    | 52.6   | 52.2   | 52.4   | 50.9   |    |    |    |    |
| RLN 24/5           | 315   | 45.4                                      | 48.0    | 49.7    | 50.1    | 51.2    | 52.0    | 52.3    | 52.2   | 51.6   | 51.0   | 49.5   |    |    |    |    |
| TAPL               | 400   | 47.8                                      | 50.5    | 51.6    | 52.9    | 52.9    | 55.0    | 53.5    | 52.6   | 51.7   | 51.0   | 48.3   |    |    |    |    |
| BAR 29.9 HG        | 500   | 45.7                                      | 48.9    | 49.6    | 50.2    | 51.0    | 52.2    | 51.9    | 52.8   | 51.4   | 50.7   | 47.1   |    |    |    |    |
| (01000. N/112)     | 630   | 43.6                                      | 48.8    | 48.0    | 49.9    | 50.7    | 51.9    | 53.0    | 53.2   | 52.5   | 52.5   | 48.1   |    |    |    |    |
| TAPM 30. DEC F     | 800   | 44.8                                      | 49.2    | 51.4    | 52.6    | 54.7    | 55.0    | 58.4    | 56.3   | 55.1   | 52.0   | 48.3   |    |    |    |    |
| (270. DEC K)       | 1000  | 53.6                                      | 50.5    | 52.0    | 53.2    | 55.3    | 57.2    | 57.3    | 56.9   | 55.2   | 54.9   | 45.5   |    |    |    |    |
| TACT 30. DEC F     | 1250  | 49.5                                      | 49.4    | 51.3    | 53.6    | 55.9    | 58.3    | 59.7    | 60.8   | 59.8   | 58.9   | 46.4   |    |    |    |    |
| (270. DEC K)       | 1500  | 55.3                                      | 51.5    | 55.5    | 57.8    | 59.8    | 61.9    | 64.3    | 65.3   | 63.3   | 60.9   | 49.3   |    |    |    |    |
| (270. DEC K)       | 1800  | 58.4                                      | 56.6    | 63.3    | 62.6    | 68.9    | 68.0    | 72.6    | 73.1   | 67.6   | 65.4   | 52.2   |    |    |    |    |
| MACT 4.03 CM/M3    | 2000  | 52.4                                      | 54.7    | 57.6    | 61.8    | 63.9    | 64.8    | 65.9    | 65.7   | 62.4   | 58.3   | 48.4   |    |    |    |    |
| (.60403 KG/M3)     | 2500  | 50.4                                      | 54.7    | 57.4    | 61.1    | 63.4    | 65.2    | 66.9    | 65.2   | 63.1   | 58.6   | 47.2   |    |    |    |    |
| NFA 6205. RPM      | 3150  | 51.3                                      | 56.7    | 59.6    | 63.1    | 66.9    | 68.9    | 71.4    | 70.8   | 69.2   | 63.6   | 51.5   |    |    |    |    |
| ( 650. RAC/SEC)    | 4000  | 49.3                                      | 53.4    | 56.4    | 60.9    | 64.2    | 67.0    | 67.1    | 66.5   | 64.4   | 57.5   | 47.3   |    |    |    |    |
| NFK 435. RPM       | 5000  | 49.7                                      | 52.6    | 55.8    | 60.4    | 64.0    | 67.9    | 67.0    | 66.4   | 65.0   | 58.1   | 48.4   |    |    |    |    |
| ( 603. RAC/SEC)    | 6300  | 48.1                                      | 50.2    | 53.8    | 57.9    | 61.6    | 63.7    | 65.1    | 64.7   | 63.3   | 55.0   | 43.7   |    |    |    |    |
| NFD 823. RPM       | 8000  | 42.4                                      | 47.4    | 51.5    | 54.3    | 59.3    | 61.6    | 61.9    | 62.4   | 60.6   | 52.0   | 48.5   |    |    |    |    |
| ( 824. RAC/SEC)    | 10000 | 39.8                                      | 45.0    | 49.2    | 54.1    | 57.3    | 59.9    | 60.4    | 60.6   | 59.1   | 50.2   | 37.2   |    |    |    |    |
| NO. OF BLADES 15   | 12500 | 38.2                                      | 41.2    | 45.2    | 50.9    | 54.3    | 58.1    | 57.1    | 57.6   | 55.8   | 45.1   | 29.7   |    |    |    |    |
| FAN TIP SPEED      | 16000 | 29.2                                      | 34.3    | 38.8    | 43.0    | 47.7    | 50.1    | 50.8    | 51.8   | 47.8   | 38.0   | 18.0   |    |    |    |    |
| 542. FT/SEC        | 20000 | 22.2                                      | 27.6    | 32.4    | 38.2    | 41.7    | 44.1    | 45.8    | 45.7   | 42.5   | 28.0   | 5.0    |    |    |    |    |
|                    | 25000 | 12.2                                      | 18.3    | 24.2    | 29.3    | 33.1    | 35.6    | 36.5    | 35.3   | 28.4   | 14.3   |        |    |    |    |    |
|                    | 31500 |   | 7.2     | 12.4    | 18.5    | 22.2    | 25.1    | 24.5    | 22.6   | 15.0   |        |        |    |    |    |    |
|                    | 40000 |   |         |         | 8.4     | 4.5     | 7.1     | 6.3     | 1.8    |        |        |        |    |    |    |    |
|                    | 50000 |   |         |         |         |         |         |         |        |        |        |        |    |    |    |    |
|                    | 63000 |   |         |         |         |         |         |         |        |        |        |        |    |    |    |    |
|                    | 80000 |   |         |         |         |         |         |         |        |        |        |        |    |    |    |    |
| OVERALL CALCULATED |       | 63.3                                      | 65.8    | 68.5    | 70.8    | 74.2    | 76.2    | 78.8    | 77.8   | 75.2   | 70.9   | 61.5   |    |    |    |    |
| PNFC               |       | 75.6                                      | 78.6    | 81.8    | 84.7    | 88.8    | 90.8    | 91.7    | 91.4   | 89.5   | 84.5   | 73.8   |    |    |    |    |

|                    | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 159.   | 0.    | 0. | 0. | 0. | 0. | 0. | 0. |       |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|----|----|----|----|----|----|-------|
| PREC.              | (0.02) | (1.06) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.    | 0. | 0. | 0. | 0. | 0. | 0. |       |
| RADIAL 17. FT.     | 50     |        |        |        |        |        |        |        |        |        |        |       |    |    |    |    |    |    |       |
| VEHICLE            | 100    | 71.9   | 73.4   | 73.9   | 72.9   | 72.1   | 74.4   | 72.9   | 72.9   | 76.2   | 86.8   | 86.4  |    |    |    |    |    |    | 111.1 |
| CONFIG             | 125    | 75.0   | 69.1   | 69.1   | 77.4   | 75.1   | 75.9   | 75.8   | 77.7   | 78.5   | 80.6   | 85.1  |    |    |    |    |    |    | 112.9 |
| LCC SCHEDULE       | 160    | 73.3   | 72.6   | 72.6   | 74.9   | 74.9   | 76.9   | 76.4   | 77.2   | 79.0   | 81.8   | 85.1  |    |    |    |    |    |    | 112.9 |
| DATE 11/27/74      | 200    | 77.3   | 78.6   | 71.9   | 74.6   | 75.9   | 77.9   | 77.4   | 78.9   | 80.0   | 82.8   | 85.3  |    |    |    |    |    |    | 112.0 |
| RUN 24/6           | 250    | 74.9   | 74.1   | 75.4   | 76.8   | 77.1   | 79.8   | 78.6   | 79.1   | 80.2   | 81.8   | 84.6  |    |    |    |    |    |    | 113.1 |
| TAPE               | 315    | 76.9   | 76.9   | 77.6   | 78.1   | 78.6   | 80.1   | 79.3   | 79.9   | 80.2   | 81.0   | 83.3  |    |    |    |    |    |    | 113.0 |
| BAR 29.9 HG        | 400    | 74.3   | 75.6   | 75.4   | 76.1   | 77.1   | 79.8   | 78.1   | 79.4   | 80.0   | 81.3   | 82.8  |    |    |    |    |    |    | 112.7 |
| TANK 39. DEG F     | 500    | 72.6   | 73.1   | 73.6   | 74.1   | 76.6   | 79.6   | 78.9   | 79.7   | 80.5   | 81.6   | 81.6  |    |    |    |    |    |    | 112.9 |
| 101000. H/M2       | 630    | 74.4   | 74.6   | 76.6   | 77.9   | 79.3   | 81.9   | 82.4   | 82.7   | 83.2   | 82.8   | 82.4  |    |    |    |    |    |    | 115.0 |
| 1277. DEG F        | 800    | 75.6   | 76.6   | 77.1   | 79.9   | 81.6   | 83.4   | 82.8   | 83.7   | 83.5   | 83.6   | 81.9  |    |    |    |    |    |    | 115.9 |
| 1277. DEG F        | 1000   | 74.4   | 75.4   | 75.9   | 78.7   | 80.4   | 84.2   | 84.6   | 86.1   | 86.5   | 85.0   | 82.4  |    |    |    |    |    |    | 117.2 |
| 1274. DEG F        | 1200   | 75.7   | 76.4   | 79.1   | 81.5   | 82.9   | 87.4   | 88.6   | 89.9   | 89.7   | 84.6   | 83.9  |    |    |    |    |    |    | 120.7 |
| 1274. DEG F        | 1400   | 86.2   | 84.2   | 86.9   | 89.3   | 96.0   | 100.5  | 103.3  | 102.2  | 97.7   | 95.9   | 93.9  |    |    |    |    |    |    | 132.4 |
| 100374 KG/M3       | 1600   | 81.7   | 83.6   | 86.1   | 89.8   | 93.2   | 97.3   | 100.3  | 99.6   | 95.8   | 94.2   | 90.9  |    |    |    |    |    |    | 125.8 |
| 100374 KG/M3       | 1800   | 78.7   | 81.5   | 83.6   | 87.1   | 89.5   | 92.0   | 92.8   | 91.9   | 92.8   | 89.4   | 84.4  |    |    |    |    |    |    | 123.8 |
| 100374 KG/M3       | 2000   | 85.2   | 84.8   | 86.6   | 91.1   | 92.8   | 94.5   | 97.1   | 97.1   | 97.3   | 92.2   | 88.0  |    |    |    |    |    |    | 127.9 |
| 100374 KG/M3       | 2200   | 79.7   | 83.2   | 86.1   | 89.4   | 92.3   | 94.2   | 96.5   | 96.8   | 96.5   | 91.9   | 87.6  |    |    |    |    |    |    | 127.9 |
| 100374 KG/M3       | 2400   | 77.4   | 82.9   | 85.3   | 89.1   | 91.8   | 93.9   | 96.0   | 96.7   | 96.2   | 91.1   | 86.2  |    |    |    |    |    |    | 127.1 |
| 100374 KG/M3       | 2600   | 77.5   | 80.6   | 82.3   | 87.3   | 89.9   | 92.4   | 94.5   | 96.1   | 94.9   | 90.8   | 85.1  |    |    |    |    |    |    | 128.0 |
| 100374 KG/M3       | 2800   | 76.2   | 79.3   | 81.9   | 84.5   | 89.3   | 91.4   | 94.8   | 94.8   | 94.8   | 90.1   | 85.7  |    |    |    |    |    |    | 129.3 |
| 100374 KG/M3       | 3000   | 75.5   | 78.6   | 81.4   | 86.9   | 88.5   | 91.3   | 93.8   | 94.3   | 95.0   | 89.0   | 85.9  |    |    |    |    |    |    | 129.3 |
| 100374 KG/M3       | 3200   | 74.8   | 77.1   | 80.3   | 85.2   | 88.7   | 90.4   | 92.5   | 93.7   | 93.0   | 89.7   | 84.9  |    |    |    |    |    |    | 124.7 |
| 100374 KG/M3       | 3400   | 71.8   | 74.4   | 77.2   | 82.1   | 85.1   | 87.4   | 91.0   | 92.5   | 91.7   | 87.1   | 87.1  |    |    |    |    |    |    | 123.1 |
| 100374 KG/M3       | 3600   | 71.5   | 73.4   | 76.1   | 81.7   | 84.4   | 87.2   | 90.6   | 92.3   | 92.8   | 87.7   | 85.5  |    |    |    |    |    |    | 123.9 |
| 100374 KG/M3       | 3800   | 72.6   | 72.0   | 75.1   | 80.6   | 83.3   | 85.8   | 89.1   | 90.9   | 91.2   | 85.9   | 84.6  |    |    |    |    |    |    | 122.7 |
| 100374 KG/M3       | 4000   | 69.5   | 71.0   | 73.7   | 79.3   | 81.7   | 85.4   | 88.8   | 89.5   | 90.0   | 84.6   | 83.4  |    |    |    |    |    |    | 122.4 |
| 100374 KG/M3       | 4200   | 68.8   | 68.7   | 71.4   | 76.6   | 78.9   | 82.3   | 85.8   | 86.6   | 86.5   | 82.2   | 78.9  |    |    |    |    |    |    | 126.7 |
| 100374 KG/M3       | 4400   | 72.1   | 68.3   | 69.8   | 75.1   | 76.2   | 78.8   | 81.3   | 81.7   | 81.4   | 78.4   | 80.8  |    |    |    |    |    |    | 118.8 |
| 100374 KG/M3       | 4600   | 74.9   | 67.3   | 67.6   | 75.1   | 75.1   | 76.8   | 79.8   | 74.6   | 74.3   | 72.6   | 73.9  |    |    |    |    |    |    | 117.3 |
| 100374 KG/M3       | 4800   | 72.6   | 66.7   | 68.8   | 75.7   | 76.8   | 77.1   | 77.8   | 74.4   | 71.6   | 71.1   | 76.4  |    |    |    |    |    |    | 121.7 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |       |    |    |    |    |    |    |       |
| OVERALL CALCULATED |        | 92.1   | 93.2   | 95.4   | 99.0   | 102.4  | 105.5  | 108.0  | 108.0  | 106.6  | 103.1  | 100.7 |    |    |    |    |    |    | 130.6 |
| PMCP               |        | 104.4  | 106.5  | 109.8  | 112.1  | 114.6  | 117.4  | 119.7  | 119.4  | 118.9  | 115.3  | 112.4 |    |    |    |    |    |    |       |

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 154    | 0    | 0  | 0  | 0  | 0  | 0  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|
| FREQ.              | (1.02) | (1.38) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0    | 0  | 0  | 0  | 0  | 0  |
| SIDE LINE 200. FT. | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50   | 50 | 50 | 50 | 50 | 50 |
| ( 60.06 M )        | 60     | 60     | 60     | 60     | 60     | 60     | 60     | 60     | 60     | 60     | 60     | 60   | 60 | 60 | 60 | 60 | 60 |
| VEHICLE R55        | 100    | 49.1   | 50.7   | 51.0   | 51.2   | 50.5   | 52.0   | 50.7   | 49.0   | 51.0   | 54.3   | 54.3 |    |    |    |    |    |
| CCW/FIG 10R        | 125    | 51.3   | 57.3   | 58.0   | 55.6   | 53.5   | 54.1   | 53.3   | 54.5   | 53.0   | 53.0   | 54.0 |    |    |    |    |    |
| LCC SCHEMATIC      | 150    | 40.2   | 49.7   | 50.4   | 53.0   | 53.1   | 55.0   | 54.0   | 53.0   | 54.3   | 55.0   | 54.0 |    |    |    |    |    |
| DATE 11/27/76      | 200    | 44.3   | 47.0   | 49.0   | 57.7   | 54.1   | 55.0   | 54.0   | 55.0   | 55.2   | 55.0   | 54.7 |    |    |    |    |    |
| REV 24/5           | 250    | 50.0   | 51.3   | 53.0   | 54.4   | 55.2   | 57.0   | 56.1   | 55.7   | 55.3   | 54.7   | 53.7 |    |    |    |    |    |
| TARE               | 315    | 51.0   | 53.7   | 55.1   | 54.0   | 50.0   | 57.0   | 56.7   | 50.4   | 55.2   | 54.0   | 52.2 |    |    |    |    |    |
| GAR 20.0 MS        | 400    | 50.0   | 52.4   | 52.0   | 53.0   | 55.1   | 57.4   | 55.4   | 55.0   | 54.9   | 53.0   | 51.5 |    |    |    |    |    |
| (01000. 1/2)       | 500    | 48.2   | 49.0   | 51.0   | 53.0   | 54.5   | 57.3   | 56.0   | 55.0   | 55.2   | 54.0   | 50.0 |    |    |    |    |    |
| TAPS 30. DEG F     | 600    | 51.0   | 53.0   | 54.2   | 57.4   | 59.3   | 60.0   | 59.0   | 59.7   | 59.0   | 55.1   | 50.5 |    |    |    |    |    |
| (277. DEG F)       | 1000   | 49.0   | 51.0   | 52.0   | 54.0   | 57.0   | 61.0   | 61.4   | 62.0   | 60.0   | 57.4   | 49.0 |    |    |    |    |    |
| T-ET 34. DEG F     | 1250   | 50.7   | 52.5   | 50.0   | 54.7   | 61.3   | 64.7   | 65.3   | 65.6   | 63.0   | 61.2   | 51.1 |    |    |    |    |    |
| (274. DEG F)       | 1500   | 61.0   | 60.1   | 63.5   | 64.3   | 73.2   | 77.3   | 79.8   | 77.7   | 71.0   | 67.2   | 60.0 |    |    |    |    |    |
| MACT 3.74 CM/MS    | 2000   | 58.5   | 50.7   | 62.0   | 65.7   | 70.3   | 74.3   | 76.6   | 74.0   | 69.4   | 65.1   | 57.1 |    |    |    |    |    |
| (-603/4 KG/MS)     | 2500   | 51.0   | 57.0   | 50.0   | 63.0   | 66.4   | 68.7   | 68.0   | 67.0   | 65.4   | 59.1   | 50.2 |    |    |    |    |    |
| NFA 09A1. NFA      | 3150   | 54.2   | 59.2   | 62.6   | 64.6   | 69.1   | 70.0   | 72.0   | 71.0   | 70.3   | 62.3   | 53.7 |    |    |    |    |    |
| ( 731. NAC/SEC)    | 4000   | 53.1   | 57.9   | 61.6   | 65.4   | 68.5   | 70.2   | 71.0   | 71.1   | 60.0   | 61.3   | 51.0 |    |    |    |    |    |
| NFA 7122. NFA      | 5000   | 52.5   | 54.4   | 60.6   | 64.9   | 67.7   | 69.7   | 71.1   | 70.7   | 60.3   | 60.1   | 49.0 |    |    |    |    |    |
| ( 740. NAC/SEC)    | 6300   | 49.7   | 54.2   | 57.3   | 62.3   | 65.2   | 67.5   | 68.0   | 69.2   | 60.0   | 50.3   | 46.0 |    |    |    |    |    |
| NFA 0023. NFA      | 8000   | 47.0   | 51.7   | 55.3   | 60.5   | 63.0   | 65.3   | 67.2   | 66.7   | 64.4   | 59.0   | 44.4 |    |    |    |    |    |
| ( 024. NAC/SEC)    | 10000  | 44.4   | 49.3   | 53.2   | 59.3   | 61.1   | 63.0   | 65.4   | 64.4   | 62.4   | 52.7   | 40.7 |    |    |    |    |    |
| NO. OF BLADES 15   | 12500  | 40.7   | 45.3   | 49.0   | 55.4   | 59.1   | 60.0   | 61.7   | 61.1   | 50.3   | 40.0   | 34.0 |    |    |    |    |    |
| FAH TIP SPEED      | 16000  | 33.3   | 38.3   | 42.4   | 49.7   | 52.0   | 53.0   | 56.4   | 55.0   | 51.0   | 39.0   | 26.7 |    |    |    |    |    |
| (10. FT/SEC)       | 20000  | 26.6   | 31.0   | 36.7   | 43.5   | 46.3   | 48.0   | 50.4   | 49.7   | 45.5   | 32.0   | 12.7 |    |    |    |    |    |
|                    | 25000  | 17.3   | 22.0   | 24.5   | 35.5   | 38.0   | 40.0   | 42.0   | 40.3   | 34.4   | 10.0   |      |    |    |    |    |    |
|                    | 31500  | 3.5    | 10.4   | 10.6   | 24.1   | 27.1   | 30.0   | 30.2   | 27.0   | 19.2   |        |      |    |    |    |    |    |
|                    | 40000  |        |        |        | 6.5    | 9.0    | 11.0   | 11.2   | 6.4    |        |        |      |    |    |    |    |    |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
| OVERALL CALCULATED | 60.2   | 60.3   | 71.3   | 74.7   | 76.5   | 81.0   | 83.5   | 82.1   | 79.3   | 73.0   | 66.7   |      |    |    |    |    |    |
| P436               | 70.6   | 61.0   | 64.0   | 68.4   | 91.2   | 94.1   | 95.7   | 94.3   | 91.0   | 85.4   | 78.3   |      |    |    |    |    |    |

|                    | 51.   | 60.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 150.  | 0.    | 0. | 0. | 0. | 0. | 0. | 0. | 0. |       |  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|----|-------|--|
| PREC.              | 10.92 | 11.98 | 13.24 | 14.41 | 15.59 | 16.76 | 17.94 | 19.13 | 20.32 | 21.52 | 22.73 | 0.    | 0. | 0. | 0. | 0. | 0. | 0. | 0. |       |  |
| 50                 |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |       |  |
| 63                 |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |       |  |
| 80                 |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |       |  |
| RADIAL 17. FT.     | 100   | 71.0  | 72.4  | 73.9  | 74.4  | 75.1  | 77.1  | 78.9  | 78.9  | 79.5  | 83.0  | 87.0  |    |    |    |    |    |    |    | 113.3 |  |
| 1 S. H)            | 125   | 76.3  | 77.4  | 77.1  | 77.4  | 77.6  | 79.6  | 80.1  | 82.2  | 82.0  | 84.1  | 87.0  |    |    |    |    |    |    |    | 115.0 |  |
| VEHICLE 0.45       | 160   | 74.8  | 75.6  | 75.6  | 77.4  | 77.4  | 79.1  | 80.1  | 82.2  | 82.7  | 85.3  | 87.0  |    |    |    |    |    |    |    | 115.1 |  |
| CON-IC 10R         | 200   | 74.8  | 73.9  | 75.6  | 74.6  | 74.1  | 81.0  | 80.6  | 83.1  | 83.7  | 86.0  | 87.3  |    |    |    |    |    |    |    | 116.0 |  |
| LTC SCHEMECTADY    | 250   | 77.3  | 78.1  | 79.4  | 80.6  | 81.1  | 82.6  | 83.3  | 84.9  | 85.2  | 87.1  | 88.1  |    |    |    |    |    |    |    | 117.4 |  |
| DATE 11/27/74      | 315   | 74.5  | 74.4  | 80.6  | 80.9  | 81.6  | 82.1  | 82.3  | 83.9  | 84.8  | 85.0  | 86.0  |    |    |    |    |    |    |    | 118.0 |  |
| RUN 24/7           | 430   | 77.1  | 78.6  | 78.6  | 79.4  | 79.9  | 81.1  | 82.4  | 83.6  | 83.5  | 85.1  | 86.1  |    |    |    |    |    |    |    | 118.0 |  |
| TAFE               | 500   | 77.1  | 75.6  | 74.9  | 74.4  | 79.1  | 80.9  | 82.6  | 84.2  | 84.0  | 84.0  | 84.9  |    |    |    |    |    |    |    | 119.0 |  |
| BAR 29.9 MS        | 630   | 74.4  | 77.4  | 79.1  | 80.4  | 81.6  | 83.2  | 85.1  | 85.9  | 86.0  | 85.0  | 84.0  |    |    |    |    |    |    |    | 117.9 |  |
| (81000. 4/MZ)      | 830   | 81.4  | 79.1  | 79.6  | 81.4  | 83.6  | 84.7  | 86.1  | 86.7  | 86.0  | 85.0  | 84.4  |    |    |    |    |    |    |    | 118.3 |  |
| TAP-0 30. DEG F    | 1000  | 82.1  | 77.9  | 78.4  | 80.9  | 82.9  | 84.9  | 86.4  | 87.9  | 87.7  | 86.3  | 84.4  |    |    |    |    |    |    |    | 118.0 |  |
| (270. DEG W)       | 1250  | 81.7  | 78.7  | 80.2  | 83.2  | 85.2  | 87.7  | 88.6  | 89.9  | 89.2  | 88.4  | 84.4  |    |    |    |    |    |    |    | 121.1 |  |
| T-ET 34. DEG F     | 1500  | 83.4  | 83.7  | 85.4  | 88.8  | 89.9  | 91.7  | 95.1  | 95.9  | 93.2  | 91.9  | 84.4  |    |    |    |    |    |    |    | 123.7 |  |
| (274. DEG W)       | 1750  | 84.0  | 84.7  | 87.1  | 90.0  | 100.2 | 100.7 | 107.1 | 106.4 | 105.8 | 101.0 | 94.1  |    |    |    |    |    |    |    | 127.0 |  |
| MACT 4.63 G/PS     | 2000  | 82.4  | 85.2  | 86.0  | 91.5  | 93.5  | 95.0  | 95.3  | 95.1  | 94.3  | 90.2  | 88.4  |    |    |    |    |    |    |    | 120.0 |  |
| (-00403 4W/PS)     | 2500  | 81.0  | 84.5  | 87.1  | 90.5  | 93.5  | 96.0  | 97.0  | 95.6  | 96.5  | 91.7  | 87.3  |    |    |    |    |    |    |    | 127.0 |  |
| NFA 2755. RPM      | 3100  | 83.7  | 87.2  | 89.6  | 93.4  | 97.3  | 99.0  | 102.2 | 100.0 | 100.0 | 95.9  | 90.5  |    |    |    |    |    |    |    | 124.0 |  |
| ( 812. 247/SEC)    | 4000  | 84.7  | 87.5  | 91.3  | 94.2  | 95.9  | 98.4  | 98.2  | 97.4  | 92.6  | 92.6  | 87.2  |    |    |    |    |    |    |    | 126.0 |  |
| NFR 2617. RPM      | 5000  | 82.2  | 85.5  | 88.0  | 91.2  | 93.6  | 96.4  | 98.4  | 100.0 | 99.4  | 92.6  | 87.3  |    |    |    |    |    |    |    | 129.0 |  |
| ( 829. 840/SEC)    | 6300  | 78.0  | 82.7  | 85.3  | 89.2  | 92.6  | 95.1  | 96.4  | 97.0  | 97.3  | 92.3  | 86.4  |    |    |    |    |    |    |    | 120.2 |  |
| NFB 8023. RPM      | 8000  | 74.7  | 82.1  | 85.6  | 90.1  | 92.7  | 94.7  | 97.0  | 98.0  | 98.4  | 92.0  | 86.9  |    |    |    |    |    |    |    | 120.0 |  |
| ( 924. 840/SEC)    | 10000 | 74.4  | 81.3  | 84.5  | 89.2  | 92.1  | 94.0  | 96.2  | 98.2  | 98.1  | 91.7  | 86.6  |    |    |    |    |    |    |    | 120.6 |  |
| NO. OF BLADES 15   | 12500 | 76.5  | 78.6  | 81.2  | 85.6  | 89.1  | 91.0  | 94.5  | 96.5  | 95.4  | 89.3  | 85.1  |    |    |    |    |    |    |    | 120.0 |  |
| FAN TIP SPEED      | 20000 | 75.4  | 79.1  | 80.8  | 85.2  | 88.0  | 91.4  | 94.4  | 96.7  | 96.3  | 90.7  | 85.0  |    |    |    |    |    |    |    | 127.4 |  |
| 677. FT/SEC        | 25000 | 73.6  | 75.8  | 78.5  | 83.0  | 86.0  | 91.2  | 92.0  | 94.1  | 94.3  | 88.6  | 82.4  |    |    |    |    |    |    |    | 120.0 |  |
|                    | 31500 | 71.5  | 72.9  | 75.5  | 83.5  | 87.0  | 87.7  | 89.6  | 90.9  | 90.4  | 85.6  | 79.0  |    |    |    |    |    |    |    | 123.1 |  |
|                    | 43000 | 71.4  | 78.0  | 72.7  | 84.0  | 79.4  | 85.2  | 86.2  | 84.1  | 84.0  | 82.3  | 71.2  |    |    |    |    |    |    |    | 123.0 |  |
|                    | 58000 | 72.4  | 80.4  | 71.2  | 76.1  | 76.6  | 79.3  | 81.0  | 81.0  | 79.1  | 78.0  | 66.0  |    |    |    |    |    |    |    | 120.0 |  |
|                    | 80000 | 75.9  | 72.8  | 74.1  | 77.3  | 78.1  | 79.2  | 83.0  | 85.2  | 79.7  | 75.1  | 67.2  |    |    |    |    |    |    |    | 126.0 |  |
| OVERALL MEASURED   |       | 97.4  | 99.1  | 100.4 | 103.7 | 105.6 | 107.4 | 110.9 | 112.2 | 110.5 | 106.1 | 101.4 |    |    |    |    |    |    |    | 142.3 |  |
| OVERALL CALCULATED |       | 111.1 | 112.8 | 113.9 | 116.8 | 118.2 | 120.0 | 123.6 | 124.0 | 122.9 | 119.3 | 113.0 |    |    |    |    |    |    |    |       |  |
| PAIR               |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |       |  |

ORIGINAL PAGE IS OF POOR QUALITY

NOISE SOUND PRESSURE LEVELS (SP. SFC. P. 7) PERCENT REL. HUM. DATA

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | 51     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 151    | 0    | 0    | 0    | 0    | 0    | 0    |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
| FREQ.               | (0.92) | (1.23) | (1.24) | (1.41) | (1.50) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0)  | (0)  | (0)  | (0)  | (0)  |
| SIDE LINE 200. FT.  | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50   | 50   | 50   | 50   | 50   | 50   |
| VEHICLE 100-00 P1   | 100    | 47.4   | 49.7   | 51.0   | 52.7   | 53.5   | 55.4   | 54.7   | 55.0   | 55.0   | 57.0   | 57.0 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 |
| CONJ 10R            | 100    | 57.0   | 52.7   | 53.4   | 55.5   | 55.0   | 57.2   | 57.7   | 58.0   | 58.1   | 58.3   | 58.3 | 58.5 | 58.6 | 58.6 | 58.6 | 58.6 |
| LCC SCHEMATICALLY   | 200    | 53.0   | 58.9   | 53.3   | 54.7   | 58.3   | 59.0   | 58.2   | 59.0   | 59.0   | 59.0   | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 |
| SATE 11/27/74       | 250    | 53.2   | 55.2   | 57.3   | 58.0   | 59.2   | 60.9   | 60.0   | 61.5   | 60.3   | 60.0   | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 |
| RJH 247             | 315    | 54.4   | 59.2   | 54.1   | 58.0   | 59.0   | 67.0   | 60.4   | 60.4   | 60.4   | 60.4   | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 |
| TAPE                | 400    | 52.0   | 54.4   | 56.1   | 57.2   | 57.0   | 58.0   | 58.0   | 60.0   | 60.0   | 60.0   | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 |
| BAR 20.0 MC         | 500    | 52.7   | 52.3   | 54.2   | 56.1   | 57.0   | 58.0   | 58.0   | 60.4   | 60.4   | 60.4   | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 |
| (01000. N/12)       | 630    | 57.4   | 57.9   | 58.4   | 58.0   | 59.4   | 60.7   | 62.2   | 62.0   | 60.6   | 60.1   | 60.1 | 60.1 | 60.1 | 60.1 | 60.1 | 60.1 |
| TAMP 30. DEC F      | 700    | 56.7   | 55.5   | 56.7   | 58.0   | 61.3   | 62.1   | 63.0   | 62.7   | 60.4   | 57.9   | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 |
| (1270. DEC K)       | 1000   | 57.3   | 54.1   | 55.3   | 57.3   | 60.4   | 62.3   | 63.7   | 63.0   | 62.0   | 58.2   | 50.9 | 50.9 | 50.9 | 50.9 | 50.9 | 50.9 |
| T-PT 34. DEC F      | 1250   | 56.7   | 54.8   | 57.2   | 60.5   | 62.0   | 64.0   | 64.3   | 65.0   | 64.3   | 59.0   | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 |
| (1274. DEC K)       | 1500   | 58.2   | 59.0   | 62.0   | 65.1   | 67.2   | 68.0   | 71.4   | 71.4   | 67.1   | 63.2   | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 |
| MACH 4.03 D/M/J     | 2000   | 69.5   | 72.4   | 73.0   | 76.7   | 77.3   | 77.0   | 81.4   | 84.7   | 79.4   | 72.0   | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 |
| (100003 K/M/J)      | 2500   | 56.0   | 60.7   | 63.2   | 67.0   | 70.7   | 71.7   | 71.4   | 70.2   | 67.0   | 60.0   | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 |
| MFA 7755. 4PH       | 3150   | 55.0   | 59.7   | 63.1   | 67.1   | 70.1   | 72.4   | 72.0   | 70.3   | 68.5   | 61.0   | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 |
| ( 812. 042/SEC)     | 4000   | 57.2   | 61.9   | 65.1   | 69.4   | 73.5   | 74.0   | 77.6   | 74.3   | 73.4   | 64.3   | 54.9 | 54.9 | 54.9 | 54.9 | 54.9 | 54.9 |
| MFK 7017. 0PH       | 5000   | 55.0   | 59.1   | 62.0   | 67.1   | 70.2   | 71.7   | 73.5   | 72.2   | 69.5   | 61.0   | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 |
| ( 820. 042/SEC)     | 6300   | 54.4   | 58.7   | 62.5   | 66.3   | 68.0   | 71.4   | 72.0   | 73.2   | 70.5   | 60.3   | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 |
| MFD 6023. 0PH       | 8000   | 49.7   | 55.1   | 58.7   | 63.2   | 66.7   | 69.0   | 69.0   | 69.0   | 68.0   | 58.1   | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 |
| ( 024. 042/SEC)     | 10000  | 47.0   | 52.7   | 57.4   | 62.5   | 65.3   | 67.1   | 69.4   | 64.1   | 65.0   | 59.7   | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 |
| NO. OF BLADES IS    | 12500  | 44.5   | 49.4   | 54.0   | 59.4   | 62.0   | 64.0   | 65.4   | 65.0   | 62.5   | 50.0   | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 |
| FAW TIP SPEED       | 16000  | 37.5   | 42.0   | 46.0   | 52.2   | 53.0   | 56.1   | 58.0   | 59.0   | 54.0   | 42.0   | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 |
| 677. FT/SEC         | 20000  | 30.0   | 30.0   | 41.4   | 46.0   | 51.0   | 53.0   | 54.0   | 54.2   | 49.0   | 39.0   | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
|                     | 25000  | 21.5   | 27.5   | 33.0   | 39.2   | 42.0   | 45.3   | 46.0   | 45.0   | 40.0   | 22.3   |      |      |      |      |      |      |
|                     | 31500  | 7.5    | 15.2   | 21.4   | 26.7   | 31.4   | 35.0   | 34.2   | 31.0   | 23.0   | 3.0    |      |      |      |      |      |      |
|                     | 40000  |        |        | 2.7    | 13.4   | 13.7   | 17.3   | 15.0   | 10.0   |        |        |      |      |      |      |      |      |
|                     | 50000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                     | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                     | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| OVERALL CALCULATION |        | 71.7   | 74.4   | 76.2   | 79.0   | 81.5   | 82.7   | 84.1   | 86.3   | 82.3   | 76.0   | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 |
| NOISE               |        | 85.4   | 88.2   | 90.1   | 93.4   | 94.0   | 96.1   | 96.0   | 99.0   | 96.0   | 89.0   | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 |



PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

 MODEL SOUND PRESSURE LEVELS 159, DEG. F, 70 PERCENT REL. HUM. DAY  
 PROC. DATE - MONTH 11 DAY 27 YR. 14.0  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.    | 0.   | 0.   | 0.   | 0.   | 0.   | PHL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|------|------|------|-------|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.   | (10. | (10. | (10. | (10. | (10. | )     |
| 50                 |        |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
| 63                 |        |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
| 80                 |        |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
| RADIAL 17. FT.     | 100    | 70.3   | 71.9   | 73.9   | 74.4   | 75.1   | 75.6   | 77.6   | 79.9   | 80.7   | 84.6   | 87.9  |      |      |      |      |      | 113.0 |
| 1 5. M)            | 125    | 75.8   | 77.1   | 78.9   | 77.6   | 77.6   | 78.6   | 80.9   | 82.9   | 82.5   | 84.6   | 87.4  |      |      |      |      |      | 119.2 |
| VEHICLE R-55       | 160    | 75.0   | 75.9   | 76.1   | 77.1   | 77.1   | 78.1   | 80.6   | 82.7   | 83.0   | 85.3   | 87.6  |      |      |      |      |      | 115.2 |
| CONFIG 18R         | 200    | 73.5   | 73.6   | 75.1   | 76.9   | 78.1   | 80.6   | 81.1   | 84.1   | 83.7   | 86.1   | 88.3  |      |      |      |      |      | 116.0 |
| LGC SCHEMECTADY    | 250    | 77.3   | 77.9   | 79.6   | 80.6   | 81.1   | 81.8   | 83.3   | 85.4   | 85.2   | 87.1   | 87.8  |      |      |      |      |      | 117.4 |
| DATE 11/27/74      | 315    | 78.5   | 79.6   | 80.4   | 80.6   | 81.1   | 81.4   | 82.6   | 84.4   | 84.0   | 85.6   | 86.6  |      |      |      |      |      | 116.6 |
| RUN 24/8           | 400    | 77.3   | 78.4   | 78.4   | 79.1   | 80.4   | 80.9   | 82.1   | 84.1   | 83.5   | 85.3   | 86.1  |      |      |      |      |      | 116.1 |
| TAPL               | 500    | 74.6   | 75.6   | 76.9   | 78.6   | 79.4   | 80.9   | 82.9   | 84.7   | 84.2   | 85.3   | 84.6  |      |      |      |      |      | 115.9 |
| BAR 29.9 HG        | 600    | 76.4   | 77.4   | 79.6   | 80.1   | 81.9   | 83.4   | 84.9   | 86.4   | 86.2   | 86.3   | 85.1  |      |      |      |      |      | 117.7 |
| (01000. N/M2)      | 800    | 77.9   | 78.9   | 80.1   | 81.9   | 83.9   | 85.2   | 85.8   | 86.9   | 86.2   | 85.8   | 84.6  |      |      |      |      |      | 118.4 |
| TANH 38. DEG F     | 1000   | 75.1   | 77.9   | 78.1   | 81.1   | 82.9   | 84.7   | 87.1   | 88.4   | 87.7   | 86.6   | 83.9  |      |      |      |      |      | 118.9 |
| (276. DEG K)       | 1250   | 77.9   | 78.7   | 81.1   | 83.5   | 85.2   | 87.2   | 89.6   | 90.1   | 90.0   | 87.9   | 84.1  |      |      |      |      |      | 121.0 |
| TACT 34. DEG F     | 1600   | 82.4   | 83.7   | 85.6   | 87.8   | 89.7   | 91.5   | 94.3   | 95.4   | 93.2   | 92.1   | 85.1  |      |      |      |      |      | 125.4 |
| (274. DEG K)       | 2000   | 95.7   | 96.2   | 97.4   | 99.8   | 100.0  | 101.0  | 107.3  | 109.4  | 106.5  | 101.9  | 94.6  |      |      |      |      |      | 136.0 |
| MACT 4.03 GM/M3    | 2500   | 82.2   | 85.0   | 86.9   | 91.3   | 93.5   | 95.0   | 95.3   | 94.6   | 95.3   | 90.7   | 86.1  |      |      |      |      |      | 126.9 |
| (.00403 KG/M3)     | 3150   | 81.7   | 84.2   | 87.1   | 91.1   | 93.3   | 95.5   | 96.5   | 95.3   | 96.3   | 91.4   | 86.8  |      |      |      |      |      | 127.5 |
| NFA 7754. RPM      | 4000   | 83.7   | 86.5   | 90.1   | 93.4   | 96.5   | 99.7   | 102.2  | 100.3  | 100.9  | 95.9   | 91.0  |      |      |      |      |      | 132.1 |
| ( 812. RAD/SEC)    | 5000   | 81.4   | 84.4   | 88.0   | 91.8   | 93.7   | 95.7   | 97.9   | 98.2   | 97.6   | 92.6   | 87.0  |      |      |      |      |      | 128.9 |
| NFK 7916. RPM      | 6000   | 81.7   | 85.0   | 88.0   | 91.7   | 93.9   | 96.4   | 98.2   | 100.0  | 99.2   | 92.8   | 87.8  |      |      |      |      |      | 129.9 |
| ( 829. RAD/SEC)    | 8000   | 79.1   | 82.5   | 85.8   | 90.0   | 92.1   | 94.8   | 96.8   | 98.0   | 97.5   | 92.0   | 86.9  |      |      |      |      |      | 126.3 |
| NFD 8823. RPM      | 10000  | 78.7   | 82.1   | 85.9   | 90.6   | 92.7   | 95.2   | 97.3   | 98.0   | 98.2   | 92.6   | 87.4  |      |      |      |      |      | 126.6 |
| ( 924. RAD/SEC)    | 12500  | 78.2   | 80.6   | 85.0   | 89.4   | 92.1   | 94.1   | 96.2   | 98.2   | 98.1   | 91.7   | 86.6  |      |      |      |      |      | 126.5 |
| NO. OF BLADES 15   | 16000  | 75.5   | 77.8   | 81.7   | 86.1   | 88.8   | 91.6   | 94.3   | 96.5   | 95.7   | 89.0   | 85.1  |      |      |      |      |      | 126.6 |
| FAN TIP SPEED      | 20000  | 75.2   | 77.3   | 81.5   | 86.4   | 88.3   | 91.1   | 93.9   | 96.7   | 96.3   | 90.0   | 85.2  |      |      |      |      |      | 127.2 |
| 677. FT/SEC        | 25000  | 74.9   | 77.3   | 79.8   | 84.8   | 87.5   | 90.1   | 93.4   | 95.7   | 96.0   | 89.9   | 84.4  |      |      |      |      |      | 127.1 |
|                    | 31500  | 73.9   | 76.1   | 79.0   | 83.8   | 86.3   | 89.5   | 92.3   | 94.4   | 94.3   | 88.9   | 81.9  |      |      |      |      |      | 126.6 |
|                    | 40000  | 72.2   | 73.1   | 76.0   | 80.7   | 83.0   | 86.4   | 89.6   | 90.9   | 90.6   | 85.9   | 78.1  |      |      |      |      |      | 124.6 |
|                    | 50000  | 71.1   | 69.7   | 74.0   | 78.0   | 79.4   | 83.0   | 85.5   | 86.6   | 86.0   | 82.3   | 71.0  |      |      |      |      |      | 122.7 |
|                    | 63000  | 71.7   | 69.1   | 73.4   | 76.3   | 76.9   | 79.0   | 82.1   | 82.6   | 81.1   | 78.6   | 68.1  |      |      |      |      |      | 121.5 |
|                    | 80000  | 75.2   | 73.0   | 77.6   | 78.0   | 78.1   | 79.2   | 85.0   | 86.2   | 82.0   | 77.6   | 69.7  |      |      |      |      |      | 128.0 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
| OVERALL CALCULATED |        | 97.5   | 98.7   | 100.7  | 103.8  | 105.3  | 107.4  | 110.9  | 112.2  | 110.8  | 106.1  | 101.6 |      |      |      |      |      | 142.3 |
| PNDB               |        | 111.2  | 112.4  | 114.2  | 116.9  | 118.0  | 120.3  | 123.7  | 125.0  | 123.3  | 119.4  | 114.2 |      |      |      |      |      |       |

|                    | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.    | 0.    | 0.    | 0.    | 0.    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-------|-------|-------|-------|-------|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.) | (10.) | (18.) | (10.) | (18.) | (10.) |
| SIDELINE 200. FT.  | 50     | 63     | 80     |        |        |        |        |        |        |        |        |      |       |       |       |       |       |
| ( 50.98 M )        | 100    | 46.6   | 49.2   | 51.8   | 52.7   | 53.5   | 53.9   | 55.4   | 56.8   | 56.3   | 58.0   | 57.8 |       |       |       |       |       |
| VEHICLE            | 125    | 52.3   | 54.3   | 54.7   | 55.8   | 56.0   | 56.8   | 56.6   | 59.8   | 57.9   | 57.9   | 57.1 |       |       |       |       |       |
| CC/FIC             | 160    | 51.2   | 53.3   | 53.9   | 55.3   | 55.4   | 56.2   | 56.2   | 59.4   | 58.3   | 58.5   | 57.1 |       |       |       |       |       |
| LCC SCHENECTADY    | 200    | 49.6   | 50.6   | 52.8   | 54.9   | 56.3   | 56.0   | 58.7   | 60.8   | 59.0   | 59.1   | 57.7 |       |       |       |       |       |
| DATE 11/27/74      | 250    | 53.2   | 54.8   | 57.2   | 58.5   | 59.2   | 59.8   | 60.0   | 62.0   | 60.3   | 60.0   | 57.0 |       |       |       |       |       |
| BLR 24/8           | 315    | 54.4   | 56.5   | 57.9   | 58.5   | 59.1   | 59.2   | 60.0   | 60.9   | 59.8   | 58.3   | 55.7 |       |       |       |       |       |
| TAPE               | 400    | 53.0   | 55.1   | 55.8   | 56.9   | 58.3   | 58.7   | 59.4   | 60.5   | 58.4   | 57.9   | 54.8 |       |       |       |       |       |
| BAR 29.9 MG        | 500    | 52.2   | 52.3   | 54.2   | 54.4   | 57.2   | 58.0   | 60.0   | 60.9   | 59.0   | 57.8   | 53.0 |       |       |       |       |       |
| (01000. 1/2M2)     | 600    | 51.8   | 53.9   | 56.9   | 57.8   | 59.7   | 61.0   | 61.9   | 62.5   | 60.9   | 58.8   | 53.3 |       |       |       |       |       |
| TAN 34. DEG F      | 800    | 53.2   | 55.3   | 57.2   | 59.4   | 61.5   | 62.6   | 62.8   | 62.9   | 60.7   | 57.9   | 52.5 |       |       |       |       |       |
| (276. DEG K)       | 1000   | 51.3   | 54.1   | 55.1   | 56.5   | 60.4   | 62.0   | 63.9   | 64.3   | 62.9   | 58.4   | 51.4 |       |       |       |       |       |
| T-ET 34. DEG F     | 1200   | 52.9   | 54.8   | 58.0   | 60.7   | 62.6   | 64.4   | 66.3   | 65.8   | 64.1   | 59.4   | 51.3 |       |       |       |       |       |
| (274. DEG K)       | 1400   | 57.2   | 59.6   | 62.3   | 64.8   | 66.9   | 68.5   | 70.8   | 70.9   | 67.1   | 63.4   | 51.9 |       |       |       |       |       |
| WACT 4.63 CM/M3    | 2000   | 79.2   | 71.9   | 73.8   | 76.7   | 77.0   | 77.8   | 83.6   | 84.7   | 80.1   | 72.8   | 60.9 |       |       |       |       |       |
| (.00453 KG/M3)     | 2500   | 55.5   | 60.5   | 63.2   | 66.1   | 70.4   | 71.7   | 71.4   | 69.7   | 68.6   | 61.3   | 51.8 |       |       |       |       |       |
| NFA 7754. RPM      | 3150   | 55.7   | 59.4   | 63.1   | 67.6   | 69.9   | 71.9   | 72.4   | 70.1   | 69.2   | 61.9   | 51.9 |       |       |       |       |       |
| ( 812. RAD/SEC)    | 4000   | 57.1   | 61.2   | 65.6   | 69.4   | 72.7   | 75.7   | 77.6   | 74.5   | 73.4   | 65.3   | 55.0 |       |       |       |       |       |
| NFK 7918. RPM      | 5000   | 54.5   | 59.9   | 63.3   | 67.6   | 69.7   | 71.4   | 73.0   | 72.2   | 69.7   | 61.6   | 50.4 |       |       |       |       |       |
| ( 829. RAD/SEC)    | 6300   | 53.9   | 58.7   | 62.5   | 66.8   | 69.1   | 71.4   | 72.6   | 73.2   | 70.3   | 60.5   | 49.4 |       |       |       |       |       |
| NFD 8823. RPM      | 8000   | 57.3   | 54.9   | 59.2   | 64.3   | 66.2   | 68.8   | 69.9   | 69.9   | 67.1   | 57.8   | 45.7 |       |       |       |       |       |
| ( 924. RAD/SEC)    | 10000  | 47.6   | 52.7   | 57.7   | 63.0   | 65.3   | 67.8   | 68.9   | 68.1   | 65.6   | 55.7   | 42.2 |       |       |       |       |       |
| NC. GF BLADES 15   | 12500  | 44.3   | 48.7   | 54.5   | 59.6   | 62.6   | 64.3   | 65.4   | 65.6   | 62.5   | 50.9   | 35.7 |       |       |       |       |       |
| FAN TIP SPEED      | 15000  | 37.0   | 41.8   | 47.3   | 52.7   | 55.7   | 58.1   | 59.6   | 59.6   | 55.0   | 41.8   | 24.7 |       |       |       |       |       |
| 677. FT/SEC        | 20000  | 30.6   | 36.4   | 42.1   | 48.2   | 50.5   | 52.8   | 54.1   | 54.2   | 49.8   | 34.2   | 12.5 |       |       |       |       |       |
|                    | 25000  | 21.5   | 28.0   | 33.2   | 39.7   | 42.9   | 44.8   | 46.3   | 45.0   | 39.2   | 22.0   |      |       |       |       |       |       |
|                    | 31500  | 7.8    | 15.5   | 21.9   | 28.7   | 31.7   | 34.1   | 34.5   | 31.8   | 23.5   | 3.3    |      |       |       |       |       |       |
|                    | 40000  |        |        | 3.2    | 10.6   | 13.7   | 16.8   | 15.8   | 10.8   |        |        |      |       |       |       |       |       |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |       |       |       |       |       |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |       |       |       |       |       |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |       |       |       |       |       |
| OVERALL CALCULATED | 71.8   | 74.0   | 76.4   | 79.7   | 81.2   | 82.8   | 86.1   | 86.3   | 82.8   | 76.8   | 68.1   |      |       |       |       |       |       |
| PNCR               | 65.5   | 67.8   | 69.3   | 63.5   | 64.7   | 66.4   | 69.6   | 69.9   | 66.5   | 69.9   | 68.0   |      |       |       |       |       |       |

400

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.    | 0. | 0. | 0. | 0. | Pol  |       |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|----|----|----|----|------|-------|
|                    | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.75) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.   | 0. | 0. | 0. | 0. | )    |       |
|                    | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0.    | 0. | 0. | 0. | 0. | 150. |       |
| RADIAL 17. FT.     | 100    | 72.7   | 75.9   | 79.0   | 81.9   | 82.1   | 80.9   | 77.4   | 71.4   | 71.7   | 76.1   | 77.2  |    |    |    |    |      | 112.0 |
| ( 5. M)            | 125    | 67.5   | 67.6   | 71.9   | 68.7   | 69.6   | 68.2   | 67.9   | 71.9   | 72.7   | 72.6   | 74.9  |    |    |    |    |      | 104.0 |
| VEHICLE RMS        | 160    | 64.5   | 67.4   | 67.4   | 67.7   | 68.1   | 68.4   | 68.9   | 70.9   | 71.7   | 73.0   | 75.2  |    |    |    |    |      | 104.1 |
| CONFIG 18P         | 200    | 63.2   | 66.9   | 67.4   | 67.7   | 68.6   | 69.9   | 70.9   | 72.1   | 72.7   | 75.0   | 76.6  |    |    |    |    |      | 109.2 |
| LCC SCHEMECTADY    | 250    | 65.9   | 67.9   | 68.9   | 69.1   | 69.9   | 70.4   | 71.3   | 72.1   | 73.0   | 74.1   | 75.1  |    |    |    |    |      | 105.2 |
| DATE 11/27/74      | 315    | 68.7   | 70.6   | 70.9   | 71.2   | 71.0   | 72.4   | 72.3   | 72.1   | 73.0   | 74.3   | 75.1  |    |    |    |    |      | 106.3 |
| RL. 24/9           | 400    | 67.8   | 69.6   | 69.6   | 69.7   | 70.6   | 71.9   | 72.4   | 72.6   | 73.2   | 74.6   | 74.4  |    |    |    |    |      | 109.6 |
| TAFE               | 500    | 65.0   | 67.9   | 67.6   | 69.2   | 69.9   | 71.4   | 72.6   | 73.7   | 74.0   | 74.6   | 74.2  |    |    |    |    |      | 105.0 |
| BAR 28.9 MG        | 630    | 68.6   | 70.4   | 71.6   | 72.2   | 73.9   | 75.7   | 77.1   | 77.2   | 77.7   | 77.1   | 75.2  |    |    |    |    |      | 109.2 |
| (01000. R/M2)      | 800    | 69.6   | 72.5   | 73.1   | 73.7   | 75.9   | 77.4   | 78.4   | 79.4   | 79.7   | 80.1   | 76.4  |    |    |    |    |      | 111.2 |
| TAMP 36. DEG F     | 1000   | 70.3   | 70.7   | 72.6   | 74.7   | 77.4   | 80.5   | 83.3   | 84.9   | 85.0   | 85.3   | 79.7  |    |    |    |    |      | 115.4 |
| (276. DEG F)       | 1250   | 64.1   | 62.9   | 65.4   | 67.5   | 72.4   | 74.0   | 77.1   | 80.1   | 86.2   | 84.9   | 87.2  |    |    |    |    |      | 120.0 |
| T-ET 34. DEG F     | 1500   | 77.6   | 77.9   | 80.1   | 82.3   | 85.5   | 87.8   | 90.6   | 90.9   | 89.0   | 88.4   | 81.7  |    |    |    |    |      | 121.2 |
| (274. DEG F)       | 2000   | 74.6   | 76.5   | 79.1   | 82.3   | 82.5   | 84.8   | 86.1   | 87.1   | 85.8   | 85.2   | 80.2  |    |    |    |    |      | 117.0 |
| MACT 4.03 GM/M2    | 2500   | 77.4   | 80.2   | 81.4   | 84.1   | 85.5   | 88.5   | 92.3   | 93.1   | 92.0   | 91.2   | 85.2  |    |    |    |    |      | 123.2 |
| (.70403 GM/M2)     | 3150   | 74.1   | 77.0   | 79.6   | 81.4   | 84.0   | 87.0   | 88.5   | 89.3   | 84.5   | 88.4   | 82.6  |    |    |    |    |      | 120.1 |
| MFA 5435. RPM      | 4000   | 73.8   | 76.2   | 78.3   | 81.4   | 84.4   | 87.0   | 88.7   | 90.0   | 90.4   | 89.1   | 82.1  |    |    |    |    |      | 125.0 |
| ( 5548. RPM)       | 5000   | 71.3   | 74.2   | 76.8   | 79.6   | 83.5   | 86.2   | 87.2   | 88.2   | 84.4   | 86.6   | 80.3  |    |    |    |    |      | 119.1 |
| MFX 5548. RPM      | 6300   | 69.9   | 72.8   | 74.8   | 77.3   | 81.4   | 84.5   | 86.2   | 87.5   | 84.4   | 85.8   | 79.6  |    |    |    |    |      | 116.3 |
| ( 591. RAD/SEC)    | 8000   | 67.8   | 71.5   | 73.4   | 77.3   | 83.3   | 83.4   | 85.0   | 86.3   | 87.3   | 85.3   | 78.2  |    |    |    |    |      | 117.3 |
| NF3 8023. RPM      | 10000  | 67.4   | 70.6   | 73.4   | 76.6   | 79.9   | 82.7   | 84.5   | 86.0   | 87.9   | 85.1   | 76.7  |    |    |    |    |      | 117.4 |
| ( 924. RAD/SEC)    | 12500  | 65.9   | 69.6   | 71.7   | 75.5   | 79.1   | 81.7   | 83.9   | 85.4   | 87.4   | 84.2   | 77.9  |    |    |    |    |      | 110.9 |
| NO. OF BLADES 15   | 16000  | 63.7   | 67.1   | 69.7   | 72.1   | 76.1   | 78.0   | 81.5   | 84.2   | 85.2   | 81.9   | 75.9  |    |    |    |    |      | 115.0 |
| FAN TIP SPEED      | 20000  | 63.4   | 66.6   | 67.8   | 71.2   | 74.6   | 77.9   | 80.9   | 83.5   | 85.5   | 81.5   | 75.3  |    |    |    |    |      | 115.1 |
| 474. FT/SEC        | 25000  | 62.0   | 67.0   | 67.1   | 71.1   | 73.3   | 75.9   | 78.9   | 81.2   | 82.2   | 80.1   | 72.0  |    |    |    |    |      | 113.4 |
|                    | 31500  | 61.0   | 65.1   | 65.8   | 69.9   | 71.8   | 75.5   | 77.5   | 80.1   | 81.5   | 78.6   | 71.2  |    |    |    |    |      | 113.3 |
|                    | 40000  | 60.3   | 65.4   | 65.3   | 69.0   | 68.5   | 72.0   | 75.1   | 77.2   | 78.1   | 75.9   | 65.0  |    |    |    |    |      | 111.7 |
|                    | 50000  | 62.3   | 66.2   | 66.2   | 65.1   | 66.9   | 69.3   | 72.0   | 72.1   | 73.3   | 71.3   | 63.0  |    |    |    |    |      | 109.6 |
|                    | 63000  | 63.6   | 65.6   | 67.9   | 64.6   | 65.6   | 67.3   | 68.3   | 67.6   | 67.8   | 66.8   | 61.9  |    |    |    |    |      | 109.6 |
|                    | 80000  | 62.9   | 67.3   | 69.1   | 66.3   | 68.4   | 67.5   | 68.5   | 67.9   | 66.2   | 66.3   | 59.2  |    |    |    |    |      | 113.9 |
| OVERALL MEASURED   |        | 67.6   | 68.7   | 93.7   | 93.3   | 90.4   | 98.5   | 101.0  | 102.0  | 101.3  | 100.0  | 93.0  |    |    |    |    |      | 132.6 |
| OVERALL CALCULATED |        | 99.0   | 101.3  | 102.9  | 105.4  | 107.6  | 110.1  | 112.7  | 113.6  | 113.0  | 112.1  | 106.7 |    |    |    |    |      |       |

MODEL SOUND PRESSURE LEVELS 159. GFC, F. 70 PERCENT REL. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.              | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
|                    | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) |
| SIDE LINE 200. FT. | 100    | 49.0   | 53.2   | 57.8   | 60.2   | 63.5   | 59.2   | 55.2   | 48.3   | 47.3   | 49.5   | 47.1 |      |      |      |      |      |
| ( 60.96 M)         |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| VEHICLE R=55       | 125    | 43.7   | 44.8   | 49.7   | 46.9   | 49.0   | 46.3   | 45.6   | 48.8   | 48.2   | 45.9   | 44.7 |      |      |      |      |      |
| CONFIG 1AR         | 160    | 40.6   | 44.5   | 45.2   | 45.8   | 46.4   | 46.5   | 46.5   | 47.7   | 47.1   | 46.8   | 44.7 |      |      |      |      |      |
| LCC SCHENECTADY    | 200    | 39.3   | 43.9   | 45.1   | 44.7   | 46.8   | 47.9   | 48.4   | 48.8   | 48.0   | 48.6   | 46.0 |      |      |      |      |      |
| DATE 11/27/74      | 250    | 41.9   | 44.8   | 46.5   | 47.1   | 48.0   | 46.3   | 48.8   | 48.7   | 48.1   | 47.0   | 44.3 |      |      |      |      |      |
| RUN 2479           | 315    | 44.6   | 47.5   | 48.4   | 49.1   | 49.7   | 50.3   | 49.7   | 48.6   | 48.0   | 47.1   | 44.0 |      |      |      |      |      |
| TAPE               | 400    | 43.5   | 46.4   | 47.1   | 47.7   | 49.6   | 49.7   | 49.6   | 49.0   | 48.1   | 47.2   | 43.1 |      |      |      |      |      |
| BAR 29.0 HG        | 500    | 40.6   | 44.5   | 45.0   | 46.9   | 47.7   | 49.1   | 49.8   | 49.9   | 48.7   | 47.0   | 42.6 |      |      |      |      |      |
| (01000. N/M2)      | 630    | 44.0   | 46.9   | 48.9   | 49.8   | 51.7   | 53.3   | 54.2   | 53.3   | 52.4   | 49.3   | 43.3 |      |      |      |      |      |
| TAMB 38. DEG F     | 800    | 44.9   | 49.0   | 50.2   | 51.2   | 53.5   | 54.9   | 55.8   | 55.4   | 54.2   | 52.1   | 44.3 |      |      |      |      |      |
| (276. DEG W)       | 1000   | 45.5   | 47.1   | 49.6   | 52.1   | 54.9   | 57.8   | 60.2   | 60.8   | 59.3   | 57.2   | 47.2 |      |      |      |      |      |
| T-DET 34. DEG F    | 1250   | 59.1   | 59.0   | 62.2   | 65.8   | 69.8   | 71.2   | 73.8   | 73.8   | 70.3   | 66.4   | 54.3 |      |      |      |      |      |
| (274. DEG Y)       | 1600   | 52.4   | 53.8   | 56.8   | 59.4   | 62.7   | 64.8   | 67.1   | 66.4   | 62.9   | 59.7   | 48.4 |      |      |      |      |      |
| HACT 4.03 GN/M3    | 2000   | 42.2   | 52.2   | 54.6   | 57.2   | 59.5   | 61.8   | 62.4   | 62.4   | 59.4   | 56.1   | 46.4 |      |      |      |      |      |
| (.00403 KG/M3)     | 2500   | 51.7   | 55.7   | 57.7   | 60.9   | 62.4   | 65.2   | 68.4   | 68.2   | 65.4   | 61.8   | 51.0 |      |      |      |      |      |
| NFA 5435. RPM      | 3100   | 43.1   | 52.2   | 54.6   | 57.9   | 60.6   | 63.4   | 64.4   | 64.1   | 61.5   | 58.8   | 47.7 |      |      |      |      |      |
| ( 569. RAD/SEC)    | 4000   | 47.3   | 50.9   | 53.9   | 57.4   | 61.0   | 63.0   | 64.1   | 64.3   | 62.9   | 58.5   | 46.1 |      |      |      |      |      |
| NFK 5548. RPM      | 5000   | 44.4   | 48.6   | 52.1   | 55.4   | 59.5   | 61.9   | 62.3   | 62.2   | 60.5   | 55.6   | 43.7 |      |      |      |      |      |
| ( 591. RAD/SEC)    | 6300   | 42.1   | 46.4   | 49.3   | 53.4   | 58.6   | 59.5   | 60.6   | 60.7   | 59.5   | 53.5   | 41.2 |      |      |      |      |      |
| NFD 8823. RPM      | 8000   | 39.6   | 43.9   | 47.2   | 51.3   | 54.5   | 57.3   | 58.2   | 58.1   | 56.9   | 51.1   | 37.0 |      |      |      |      |      |
| ( 924. RAD/SEC)    | 10000  | 36.3   | 41.2   | 45.2   | 49.1   | 52.6   | 55.1   | 56.1   | 56.1   | 55.4   | 48.2   | 33.5 |      |      |      |      |      |
| NO. OF BLADES 15   | 12500  | 33.0   | 37.7   | 41.2   | 45.7   | 49.6   | 51.8   | 53.1   | 52.8   | 51.8   | 43.4   | 27.8 |      |      |      |      |      |
| FAN TIP SPEED      | 16000  | 25.2   | 31.1   | 34.3   | 38.7   | 43.0   | 45.1   | 46.8   | 47.3   | 44.5   | 34.5   | 15.5 |      |      |      |      |      |
| 474. FT/SEC        | 20000  | 18.7   | 25.1   | 28.4   | 33.0   | 36.7   | 39.6   | 41.1   | 40.9   | 38.2   | 29.7   | 2.5  |      |      |      |      |      |
|                    | 25000  | 8.7    | 17.8   | 20.5   | 25.0   | 28.6   | 30.6   | 31.8   | 30.5   | 25.4   | 12.3   |      |      |      |      |      |      |
|                    | 31500  |        | 5.9    | 8.7    | 13.7   | 17.2   | 20.1   | 19.7   | 17.6   | 10.8   |        |      |      |      |      |      |      |
|                    | 40000  |        |        |        |        |        | 1.6    | 1.3    |        |        |        |      |      |      |      |      |      |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| OVERALL CALCULATED |        | 62.3   | 64.2   | 67.1   | 70.1   | 73.2   | 74.9   | 77.8   | 78.9   | 74.8   | 70.3   | 68.8 |      |      |      |      |      |
| PNCB               |        | 73.0   | 76.6   | 79.9   | 81.9   | 84.2   | 86.5   | 88.6   | 88.4   | 86.0   | 82.4   | 72.0 |      |      |      |      |      |

ANGLES FROM INLET IN DEGREES (RAD. RADIAN)

|                           | 57     | 61     | 71    | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 155   | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |       |       |
|---------------------------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| FREQ. (1.02)              | (1.08) | (1.24) | (1.4) | (1.58) | (1.78) | (1.98) | (2.15) | (2.32) | (2.52) | (2.73) | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |       |       |
| RADIA. 17. FT.            | 50     | 53     | 60    | 63     | 68     | 73     | 78     | 83     | 88     | 93     | 98    | 103   | 108 | 113 | 118 | 123 | 128 | 133 | 138 | 143 |       |       |
| VEHICLE (S. H.)           | 100    | 74.8   | 78.1  | 79.9   | 82.2   | 82.1   | 80.7   | 78.1   | 72.2   | 69.7   | 74.1  | 76.1  |     |     |     |     |     |     |     |     | 112.9 |       |
| LOC. FIC 23               | 125    | 68.3   | 67.1  | 71.4   | 69.2   | 73.9   | 69.2   | 68.4   | 71.2   | 72.7   | 72.6  | 74.6  |     |     |     |     |     |     |     |     |       | 109.3 |
| LOC. SCHEMECTALY          | 150    | 68.8   | 66.9  | 68.9   | 67.7   | 68.8   | 67.2   | 65.6   | 70.4   | 72.2   | 74.1  | 74.4  |     |     |     |     |     |     |     |     |       | 104.1 |
| DATE 12/11/74             | 200    | 66.0   | 66.1  | 67.1   | 67.9   | 69.1   | 70.0   | 71.6   | 72.9   | 74.0   | 76.6  | 77.1  |     |     |     |     |     |     |     |     |       | 106.8 |
| RUN 35/4                  | 250    | 78.8   | 68.4  | 69.9   | 69.9   | 71.9   | 72.4   | 73.1   | 73.6   | 74.2   | 75.3  | 76.6  |     |     |     |     |     |     |     |     |       | 106.7 |
| TARE                      | 315    | 71.3   | 71.6  | 71.9   | 72.2   | 72.6   | 72.7   | 72.8   | 73.4   | 74.0   | 75.3  | 76.8  |     |     |     |     |     |     |     |     |       | 107.1 |
| BAR 29.8 HG               | 400    | 75.3   | 71.1  | 71.4   | 71.7   | 71.9   | 72.7   | 73.6   | 74.4   | 74.0   | 74.8  | 75.8  |     |     |     |     |     |     |     |     |       | 107.0 |
| (10067. W/M2)             | 500    | 69.1   | 68.6  | 68.9   | 69.4   | 70.6   | 72.4   | 74.1   | 75.4   | 75.8   | 75.1  | 73.4  |     |     |     |     |     |     |     |     |       | 109.9 |
| TARE 43. DEG F            | 630    | 72.6   | 71.6  | 72.4   | 73.4   | 75.2   | 77.2   | 78.1   | 79.2   | 78.7   | 78.8  | 75.4  |     |     |     |     |     |     |     |     |       | 110.7 |
| (1279. DEG F)             | 800    | 74.1   | 72.6  | 73.1   | 73.7   | 75.9   | 77.7   | 78.8   | 79.1   | 79.7   | 79.1  | 75.4  |     |     |     |     |     |     |     |     |       | 111.1 |
| TARE 38. DEG F            | 1000   | 79.9   | 70.9  | 71.1   | 74.2   | 78.1   | 78.2   | 80.1   | 81.1   | 81.7   | 81.6  | 74.1  |     |     |     |     |     |     |     |     |       | 112.4 |
| (1276. DEG F)             | 1200   | 75.7   | 74.9  | 77.6   | 80.3   | 82.7   | 84.7   | 84.6   | 87.6   | 87.5   | 87.4  | 76.4  |     |     |     |     |     |     |     |     |       | 110.5 |
| MACT 4.50 GP/MZ           | 1400   | 75.9   | 75.9  | 78.4   | 80.2   | 83.0   | 85.9   | 86.1   | 87.1   | 86.0   | 84.9  | 77.0  |     |     |     |     |     |     |     |     |       | 117.9 |
| (100459 K0/AN)            | 2000   | 76.7   | 76.7  | 78.4   | 81.4   | 83.7   | 85.9   | 86.4   | 86.6   | 85.7   | 84.6  | 76.6  |     |     |     |     |     |     |     |     |       | 110.1 |
| MFA 5494. RPM             | 2500   | 77.7   | 78.5  | 79.9   | 82.4   | 85.0   | 87.8   | 88.8   | 88.4   | 91.0   | 91.7  | 83.1  |     |     |     |     |     |     |     |     |       | 121.6 |
| (1575. RAD/SEC)           | 3100   | 76.4   | 76.2  | 76.9   | 81.7   | 84.3   | 87.3   | 89.5   | 89.6   | 89.0   | 89.4  | 80.8  |     |     |     |     |     |     |     |     |       | 120.7 |
| MFK 5581. RPM             | 4000   | 74.9   | 76.3  | 78.3   | 81.9   | 84.5   | 87.2   | 89.0   | 90.5   | 89.9   | 89.6  | 81.0  |     |     |     |     |     |     |     |     |       | 120.9 |
| (1564. RAD/SEC)           | 5000   | 73.3   | 73.9  | 76.0   | 79.8   | 82.7   | 85.9   | 87.7   | 89.2   | 89.6   | 89.8  | 80.7  |     |     |     |     |     |     |     |     |       | 116.7 |
| MFD 6823. RPM             | 6300   | 71.7   | 72.8  | 75.0   | 78.5   | 81.4   | 84.4   | 86.9   | 88.5   | 88.9   | 86.8  | 79.8  |     |     |     |     |     |     |     |     |       | 119.8 |
| (1924. RAD/SEC)           | 8000   | 70.3   | 71.4  | 73.5   | 77.0   | 80.3   | 83.1   | 85.5   | 87.3   | 87.5   | 85.0  | 78.7  |     |     |     |     |     |     |     |     |       | 117.7 |
| NO. OF BLADES 15          | 10000  | 69.4   | 70.1  | 72.6   | 76.1   | 79.4   | 82.0   | 85.5   | 87.0   | 86.4   | 83.3  | 79.6  |     |     |     |     |     |     |     |     |       | 117.8 |
| PAN TIP SPEED 480. FT/SEC | 25000  | 69.7   | 68.8  | 70.7   | 74.7   | 77.6   | 80.6   | 83.6   | 85.9   | 87.1   | 83.9  | 78.1  |     |     |     |     |     |     |     |     |       | 114.7 |
|                           | 31500  | 66.0   | 66.5  | 67.6   | 71.4   | 74.8   | 77.4   | 81.0   | 83.9   | 84.9   | 81.0  | 75.5  |     |     |     |     |     |     |     |     |       | 114.6 |
|                           | 40000  | 65.8   | 65.4  | 66.4   | 71.0   | 72.7   | 76.9   | 80.4   | 83.0   | 85.1   | 80.8  | 74.0  |     |     |     |     |     |     |     |     |       | 114.0 |
|                           | 50000  | 66.3   | 65.4  | 66.2   | 71.3   | 71.2   | 75.9   | 78.2   | 80.8   | 82.1   | 79.0  | 73.9  |     |     |     |     |     |     |     |     |       | 113.8 |
|                           | 63000  | 64.9   | 64.3  | 64.8   | 71.4   | 73.8   | 75.8   | 77.0   | 80.1   | 81.2   | 77.3  | 70.8  |     |     |     |     |     |     |     |     |       | 113.8 |
|                           | 80000  | 64.4   | 63.3  | 64.0   | 67.0   | 68.0   | 71.9   | 74.5   | 76.3   | 78.0   | 75.5  | 69.2  |     |     |     |     |     |     |     |     |       | 111.3 |
|                           | 100000 | 67.0   | 64.9  | 65.9   | 65.2   | 66.5   | 69.8   | 72.1   | 72.2   | 73.3   | 71.4  | 64.0  |     |     |     |     |     |     |     |     |       | 110.8 |
|                           | 120000 | 68.5   | 65.0  | 67.5   | 65.5   | 65.7   | 67.6   | 68.3   | 66.8   | 67.8   | 67.9  | 63.6  |     |     |     |     |     |     |     |     |       | 110.8 |
|                           | 150000 | 72.3   | 70.1  | 69.9   | 66.8   | 67.4   | 68.2   | 66.2   | 67.3   | 68.0   | 66.7  | 65.3  |     |     |     |     |     |     |     |     |       | 113.4 |
| OVERALL MEASURED          |        |        |       |        |        |        |        |        |        |        |       |       |     |     |     |     |     |     |     |     |       |       |
| OVERALL CALCULATED        |        | 87.1   | 87.1  | 89.1   | 91.8   | 94.0   | 96.4   | 98.2   | 99.5   | 99.7   | 98.5  | 91.9  |     |     |     |     |     |     |     |     |       | 130.7 |
| PRCT                      |        | 99.7   | 100.0 | 101.9  | 104.6  | 107.0  | 109.4  | 111.3  | 112.3  | 112.2  | 111.9 | 105.0 |     |     |     |     |     |     |     |     |       |       |

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. EAY)

ANGLES FROM TARGET IN DEGREES (A-D) (A-B) (A-C) (A-D)

|                     | 53     | 64     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 155    | 0    | 0    | 0    | 0    | 0    |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|
| FREQ.               | (0.72) | (1.08) | (1.44) | (1.81) | (2.18) | (2.55) | (2.92) | (3.29) | (3.66) | (4.03) | (4.40) | (0)  | (0)  | (0)  | (0)  | (0)  |
| SIDE LINE 200. FT.  | 50     | 53     | 57     | 60     | 63     | 66     | 69     | 72     | 75     | 78     | 81     | 84   | 87   | 90   | 93   | 96   |
| VEHICLE             | 51.1   | 53.4   | 57.8   | 60.5   | 63.5   | 66.5   | 69.5   | 72.5   | 75.5   | 78.5   | 81.5   | 84.5 | 87.5 | 90.5 | 93.5 | 96.5 |
| VEHICLE             | 44.5   | 44.3   | 49.2   | 47.3   | 52.2   | 47.3   | 46.1   | 46.0   | 46.2   | 45.9   | 44.4   | 44.4 | 43.9 | 43.9 | 43.9 | 43.9 |
| COEFFIC             | 42.9   | 44.3   | 44.7   | 45.3   | 46.9   | 46.3   | 46.2   | 47.2   | 47.6   | 47.3   | 43.9   | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 |
| LOC SCHELECTADY     | 42.1   | 43.1   | 44.9   | 46.5   | 47.3   | 48.7   | 49.2   | 49.6   | 49.2   | 49.6   | 46.4   | 46.4 | 46.4 | 46.4 | 46.4 | 46.4 |
| DATE 12/11/74       | 44.7   | 46.3   | 47.5   | 47.9   | 50.9   | 50.3   | 50.6   | 51.2   | 49.3   | 46.2   | 44.7   | 44.7 | 44.7 | 44.7 | 44.7 | 44.7 |
| RUN 35/4            | 47.1   | 48.5   | 47.4   | 50.1   | 50.7   | 50.5   | 50.2   | 49.9   | 49.0   | 49.1   | 43.8   | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 |
| TAVE                | 46.6   | 47.7   | 48.8   | 48.5   | 47.8   | 50.4   | 50.9   | 50.8   | 48.9   | 47.4   | 42.5   | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 |
| BAR 29.8 HG         | 44.7   | 45.3   | 46.2   | 47.2   | 48.5   | 50.1   | 51.3   | 51.7   | 50.7   | 47.5   | 41.8   | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 |
| 103667. 1/PH2       | 48.1   | 48.2   | 49.6   | 51.1   | 52.9   | 54.6   | 55.2   | 55.3   | 53.4   | 51.1   | 43.5   | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 |
| TAVE 43. DEG F      | 49.4   | 49.3   | 50.2   | 51.7   | 53.5   | 54.7   | 53.8   | 51.2   | 53.7   | 51.1   | 43.2   | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 |
| 1279. DEG K         | 46.1   | 47.1   | 48.1   | 51.6   | 53.7   | 55.0   | 56.9   | 57.6   | 56.1   | 53.4   | 41.6   | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 |
| TACT 38. DEG F      | 50.7   | 51.3   | 54.5   | 57.5   | 60.1   | 61.9   | 63.3   | 63.3   | 61.6   | 58.9   | 45.5   | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 1276. DEG K         | 50.7   | 51.6   | 55.0   | 57.9   | 61.2   | 62.0   | 62.6   | 62.6   | 59.8   | 56.2   | 44.8   | 44.8 | 44.8 | 44.8 | 44.8 | 44.8 |
| HACT 4.59 CM/MS     | 51.2   | 52.4   | 54.8   | 58.5   | 61.8   | 62.4   | 62.9   | 61.9   | 59.4   | 55.6   | 44.9   | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 1.08459 KG/MS       | 52.0   | 53.5   | 56.2   | 59.1   | 61.9   | 64.5   | 64.9   | 65.4   | 64.4   | 62.3   | 48.9   | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 |
| NFA 494. RPM        | 50.4   | 51.4   | 54.8   | 58.1   | 60.9   | 63.7   | 65.4   | 66.3   | 62.0   | 59.6   | 45.9   | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 |
| 1 575. HAC/SEC      | 48.3   | 50.7   | 53.8   | 57.6   | 60.7   | 63.2   | 64.3   | 64.8   | 62.3   | 58.6   | 45.6   | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |
| NFK 5581. RPM       | 46.5   | 48.4   | 51.3   | 55.4   | 58.7   | 61.7   | 62.8   | 63.2   | 62.8   | 55.6   | 44.1   | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 |
| 1 584. HAC/SEC      | 44.2   | 46.4   | 49.5   | 53.3   | 56.8   | 59.5   | 61.3   | 61.7   | 60.8   | 54.5   | 41.4   | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 |
| NFS 6823. RPM       | 41.2   | 43.6   | 46.9   | 51.3   | 54.5   | 57.0   | 58.7   | 59.1   | 57.1   | 50.6   | 37.6   | 37.6 | 37.6 | 37.6 | 37.6 | 37.6 |
| 1 924. HAC/SEC      | 38.3   | 40.7   | 44.4   | 48.6   | 52.1   | 54.6   | 57.1   | 57.1   | 55.0   | 48.4   | 34.4   | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 |
| NO. OF BLADES 15    | 35.8   | 38.9   | 40.2   | 44.9   | 48.1   | 50.8   | 52.8   | 53.3   | 51.5   | 43.1   | 27.1   | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 |
| FAH TIP SPEED 16000 | 27.4   | 30.5   | 33.3   | 37.9   | 41.7   | 44.1   | 46.3   | 47.0   | 44.2   | 33.7   | 19.2   | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 |
| 400. FT/SEC 20000   | 21.1   | 24.0   | 27.0   | 33.6   | 34.8   | 38.4   | 40.6   | 40.5   | 37.8   | 29.8   | 2.0    | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  |
| 25000               | 12.9   | 16.2   | 19.6   | 26.2   | 26.5   | 30.3   | 31.1   | 30.1   | 29.3   | 11.1   |        |      |      |      |      |      |
| 31500               |        | 3.7    | 7.6    | 16.2   | 16.2   | 19.6   | 19.2   | 17.5   | 10.5   |        |        |      |      |      |      |      |
| 40000               |        |        |        |        |        |        | 1.5    | 0.7    |        |        |        |      |      |      |      |      |
| 50000               |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
| 63000               |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
| 69000               |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
| OVERALL CALCULATED  | 61.3   | 62.5   | 65.4   | 68.3   | 70.8   | 72.5   | 73.4   | 73.4   | 71.6   | 68.2   | 57.6   |      |      |      |      |      |
| PWDB                | 73.7   | 75.2   | 77.9   | 80.8   | 83.5   | 85.8   | 87.0   | 86.8   | 85.2   | 82.2   | 70.2   |      |      |      |      |      |

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. (AV)

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NOISE SOUND PRESSURE LEVELS (59. LFL, P, 70 PERCENT REL. HUM, EAV)

ANGLES FROM TALLY IN DEGREES (AND RADIANS)

| FREQ.                       | 53         | 63     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0.    | 0.    | 0.   | 0.   | 0.   | 0.   | 0.   | 0.    |       |
|-----------------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|------|------|------|------|-------|-------|
| FREQ.                       | (0.52)     | (1.00) | (1.02) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.   | (10.  | (10. | (10. | (10. | (10. | (10. | (10.) |       |
| RADIA                       | 17. FT.    | 60     |        |        |        |        |        |        |        |        |        |       |       |      |      |      |      |      |       |       |
| VEHICLE                     | 1 5. MI    | 100    | 74.5   | 75.6   | 73.9   | 73.4   | 73.6   | 75.7   | 69.9   | 70.9   | 73.0   | 77.1  | 79.6  |      |      |      |      |      |       | 108.2 |
| CCM/FIC                     | R-MS       | 100    | 70.0   | 70.4   | 72.9   | 71.4   | 72.1   | 71.9   | 71.6   | 73.7   | 75.5   | 76.0  | 79.1  |      |      |      |      |      |       | 107.0 |
| LCC SCHEMECTADY             | 23         | 100    | 69.3   | 69.4   | 69.6   | 70.4   | 71.1   | 70.7   | 71.9   | 73.9   | 76.0   | 77.8  | 79.4  |      |      |      |      |      |       | 107.7 |
| DATE                        | 12/11/74   | 200    | 68.5   | 68.4   | 69.6   | 70.4   | 71.6   | 73.4   | 74.6   | 76.1   | 77.5   | 79.6  | 80.3  |      |      |      |      |      |       | 109.1 |
| RUN                         | 35/5       | 250    | 71.3   | 70.7   | 72.1   | 72.6   | 73.4   | 74.4   | 75.3   | 75.9   | 77.0   | 78.6  | 78.8  |      |      |      |      |      |       | 109.2 |
| TAPE                        | 460        | 315    | 74.3   | 74.4   | 74.0   | 75.2   | 76.1   | 75.7   | 75.8   | 76.4   | 77.0   | 78.4  | 78.0  |      |      |      |      |      |       | 110.3 |
| BAR                         | 29.8 HG    | 400    | 72.6   | 73.4   | 73.6   | 74.2   | 74.1   | 75.2   | 75.4   | 76.9   | 77.9   | 78.8  | 78.1  |      |      |      |      |      |       | 109.8 |
| (10067. H/MS)               | 500        | 500    | 71.6   | 72.9   | 71.4   | 71.9   | 73.4   | 75.2   | 76.9   | 77.9   | 78.0   | 78.1  | 76.6  |      |      |      |      |      |       | 109.6 |
| TAMP                        | 44. DEG F  | 630    | 74.6   | 73.6   | 74.6   | 75.7   | 77.4   | 79.4   | 80.4   | 81.2   | 81.2   | 81.1  | 78.1  |      |      |      |      |      |       | 112.9 |
| (1278. DEG F)               | AC0        | 1000   | 75.4   | 74.4   | 75.6   | 76.2   | 77.2   | 79.9   | 80.6   | 81.2   | 82.2   | 81.3  | 77.6  |      |      |      |      |      |       | 113.3 |
| T-ECT                       | 38. DEG F  | 1250   | 73.1   | 72.7   | 73.6   | 74.4   | 76.6   | 78.6   | 80.5   | 81.6   | 83.1   | 83.7  | 83.1  | 76.9 |      |      |      |      |       | 114.4 |
| (1276. DEG F)               | 1650       | 1650   | 74.7   | 74.7   | 76.9   | 80.0   | 81.9   | 83.7   | 85.6   | 85.4   | 85.7   | 85.4  | 78.6  |      |      |      |      |      |       | 117.1 |
| MACT                        | 4.30 GN/MS | 2000   | 82.7   | 83.7   | 84.4   | 86.8   | 90.0   | 91.0   | 91.8   | 92.6   | 92.0   | 90.8  | 83.9  |      |      |      |      |      |       | 123.0 |
| (100430 KG/M <sup>2</sup> ) | 2500       | 2500   | 78.9   | 77.5   | 81.6   | 84.3   | 86.5   | 88.3   | 89.8   | 89.4   | 89.0   | 88.9  | 81.4  |      |      |      |      |      |       | 121.0 |
| NFA                         | 6277. RPM  | 3150   | 78.9   | 79.7   | 81.4   | 84.6   | 88.5   | 89.5   | 91.1   | 90.4   | 91.5   | 88.4  | 81.9  |      |      |      |      |      |       | 122.2 |
| (657. RAD/SEC)              | 4000       | 4000   | 80.9   | 81.2   | 83.6   | 86.4   | 89.3   | 91.5   | 93.3   | 94.1   | 95.5   | 94.2  | 86.0  |      |      |      |      |      |       | 125.5 |
| NFK                         | 370. RPM   | 5000   | 78.4   | 79.2   | 81.8   | 85.4   | 87.5   | 91.2   | 92.5   | 92.5   | 91.9   | 90.1  | 82.4  |      |      |      |      |      |       | 123.6 |
| (807. RAD/SEC)              | 6300       | 6300   | 79.6   | 80.4   | 82.0   | 85.9   | 88.0   | 90.5   | 92.4   | 93.2   | 92.9   | 90.1  | 84.0  |      |      |      |      |      |       | 124.0 |
| NFD                         | 8223. RPM  | 8000   | 76.7   | 77.5   | 79.6   | 82.5   | 86.1   | 88.2   | 91.5   | 91.8   | 92.4   | 89.1  | 83.3  |      |      |      |      |      |       | 122.8 |
| (824. RAD/SEC)              | 10000      | 10000  | 75.1   | 77.2   | 78.1   | 81.6   | 84.4   | 87.6   | 89.8   | 90.8   | 91.3   | 88.5  | 82.2  |      |      |      |      |      |       | 121.0 |
| NC. OF BLADES               | 1250       | 1250   | 75.2   | 77.9   | 77.6   | 81.4   | 84.7   | 87.3   | 89.8   | 90.8   | 92.4   | 86.1  | 83.1  |      |      |      |      |      |       | 122.1 |
| FAN TIP SPEED               | 16000      | 16000  | 74.0   | 78.1   | 77.0   | 80.5   | 82.6   | 85.7   | 88.2   | 90.7   | 91.4   | 87.7  | 81.6  |      |      |      |      |      |       | 121.3 |
| (540. FT/SEC)               | 20000      | 20000  | 74.1   | 79.4   | 76.5   | 79.2   | 80.1   | 84.4   | 86.0   | 88.5   | 89.2   | 85.6  | 79.8  |      |      |      |      |      |       | 119.6 |
|                             | 25000      | 25000  | 76.6   | 81.7   | 75.2   | 79.9   | 80.0   | 85.1   | 86.3   | 86.6   | 89.9   | 86.4  | 79.4  |      |      |      |      |      |       | 120.0 |
|                             | 31500      | 31500  | 80.5   | 84.2   | 71.2   | 83.3   | 79.5   | 84.3   | 84.0   | 85.6   | 87.4   | 84.5  | 77.5  |      |      |      |      |      |       | 120.0 |
|                             | 40000      | 40000  | 78.9   | 83.4   | 69.3   | 82.4   | 78.0   | 83.0   | 83.5   | 86.1   | 86.0   | 83.1  | 76.6  |      |      |      |      |      |       | 119.9 |
|                             | 50000      | 50000  | 70.6   | 80.7   | 68.9   | 82.2   | 74.4   | 78.8   | 80.4   | 82.7   | 83.0   | 79.7  | 78.9  |      |      |      |      |      |       | 118.3 |
|                             | 63000      | 63000  | 67.6   | 76.2   | 67.0   | 82.0   | 70.6   | 75.2   | 76.9   | 76.4   | 78.7   | 76.0  | 66.9  |      |      |      |      |      |       | 117.2 |
|                             | 80000      | 80000  | 70.1   | 70.5   | 67.5   | 80.2   | 67.2   | 72.1   | 71.4   | 72.3   | 71.8   | 71.0  | 65.9  |      |      |      |      |      |       | 116.2 |
|                             |            |        | 71.9   | 70.0   | 69.6   | 74.3   | 67.1   | 69.4   | 67.9   | 68.8   | 68.6   | 67.7  | 65.0  |      |      |      |      |      |       | 116.0 |
| OVERALL MEASURED            |            |        |        |        |        |        |        |        |        |        |        |       |       |      |      |      |      |      |       |       |
| OVERALL CALCULATED          |            |        | 91.2   | 93.3   | 92.5   | 96.2   | 97.8   | 100.3  | 102.1  | 102.8  | 103.3  | 101.0 | 95.3  |      |      |      |      |      |       | 124.5 |
| PMCB                        |            |        | 103.4  | 104.8  | 103.7  | 108.4  | 110.0  | 113.1  | 114.6  | 115.4  | 116.3  | 114.8 | 108.7 |      |      |      |      |      |       |       |

ANGLES FROM INLET IN DEGREES TAKE RADIANST

53. 62. 71. 81. 91. 101. 111. 122. 133. 145. 156. 0. 0. 0. 0. 0.  
 FREQ. (10.92)(11.63)(12.24)(13.41)(14.98)(17.06)(19.64)(23.13)(27.32)(32.52)(39.73)0. 116. 118. 118. 118. 118. 1

| SIZE, IN. 200. FT. | 53    | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 156  | 0    | 0 | 0 | 0 | 0 |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|
| VEHICLE R-55       | 125   | 46.3 | 47.6 | 50.7 | 49.6 | 52.5 | 50.1 | 49.3 | 50.5 | 50.9 | 49.9 | 48.9 |   |   |   |   |
| CONFIC 23          | 180   | 45.4 | 46.5 | 47.4 | 48.6 | 49.4 | 48.8 | 48.5 | 50.7 | 51.3 | 51.0 | 48.9 |   |   |   |   |
| LCC SCHENECTADY    | 260   | 44.6 | 45.4 | 47.3 | 48.5 | 49.8 | 51.4 | 52.2 | 52.8 | 52.7 | 52.8 | 49.7 |   |   |   |   |
| DATE 12/11/74      | 250   | 47.2 | 47.8 | 49.7 | 50.6 | 51.5 | 52.3 | 52.8 | 52.5 | 52.1 | 51.5 | 48.0 |   |   |   |   |
| RUN 35/5           | 315   | 50.1 | 51.2 | 52.1 | 53.1 | 54.2 | 53.5 | 53.2 | 52.9 | 52.9 | 51.6 | 47.8 |   |   |   |   |
| TAPE 430           | 430   | 48.3 | 50.1 | 51.1 | 52.3 | 52.1 | 52.9 | 52.6 | 53.3 | 52.6 | 51.4 | 48.8 |   |   |   |   |
| BAR 29.8 HG        | 500   | 47.2 | 47.5 | 48.7 | 49.7 | 51.2 | 52.9 | 54.0 | 54.2 | 52.7 | 50.5 | 45.8 |   |   |   |   |
| (30657. 1/11/71)   | 630   | 50.1 | 50.2 | 51.9 | 53.3 | 55.2 | 57.0 | 57.4 | 57.3 | 55.9 | 53.3 | 46.3 |   |   |   |   |
| TAMB 44. JEC F     | 800   | 50.7 | 50.8 | 52.7 | 53.7 | 55.5 | 57.4 | 57.5 | 57.2 | 56.7 | 53.4 | 45.5 |   |   |   |   |
| (250. JEC K)       | 1050  | 48.3 | 49.1 | 50.6 | 53.8 | 56.2 | 57.9 | 58.7 | 59.0 | 58.0 | 54.9 | 44.4 |   |   |   |   |
| TNET 30. JEC F     | 1250  | 49.7 | 50.8 | 53.7 | 57.3 | 59.3 | 60.9 | 62.3 | 61.1 | 59.8 | 56.9 | 45.8 |   |   |   |   |
| (276. JEC K)       | 1600  | 57.5 | 59.8 | 61.0 | 63.9 | 67.2 | 68.8 | 68.3 | 68.1 | 65.8 | 61.9 | 50.8 |   |   |   |   |
| HACT 4.30 GN/MS    | 2000  | 53.5 | 55.2 | 59.1 | 61.2 | 63.5 | 65.1 | 66.1 | 64.7 | 62.6 | 57.8 | 47.6 |   |   |   |   |
| (.00430 K6/MS)     | 2500  | 53.3 | 55.2 | 57.7 | 61.4 | 63.6 | 64.2 | 67.2 | 65.4 | 64.9 | 59.1 | 47.7 |   |   |   |   |
| MFA 6277. RPM      | 3150  | 54.9 | 56.4 | 59.6 | 62.9 | 65.9 | 67.9 | 69.1 | 64.8 | 64.5 | 64.3 | 51.9 |   |   |   |   |
| (637. HAL/SEC)     | 4000  | 51.8 | 53.9 | 57.4 | 61.4 | 63.7 | 67.2 | 67.9 | 66.8 | 64.4 | 59.5 | 46.8 |   |   |   |   |
| MFK 6370. RPM      | 5000  | 51.8 | 54.9 | 57.3 | 61.7 | 64.8 | 66.2 | 68.0 | 67.2 | 65.0 | 59.1 | 47.4 |   |   |   |   |
| (607. HAL/SEC)     | 6300  | 44.9 | 51.2 | 54.3 | 57.6 | 61.4 | 63.2 | 65.8 | 64.9 | 63.5 | 58.8 | 44.9 |   |   |   |   |
| MFD 8023. RPM      | 8000  | 46.0 | 49.6 | 51.5 | 55.5 | 58.5 | 61.0 | 63.0 | 62.6 | 60.9 | 54.3 | 40.9 |   |   |   |   |
| (924. HAL/SEC)     | 10000 | 44.1 | 48.5 | 49.4 | 54.1 | 57.4 | 59.7 | 61.4 | 66.8 | 59.9 | 52.2 | 37.9 |   |   |   |   |
| NO. OF BLADES 15   | 12500 | 42.1 | 46.2 | 46.5 | 50.7 | 53.1 | 55.8 | 57.4 | 56.1 | 55.8 | 46.9 | 38.7 |   |   |   |   |
| FAN TIP SPEED      | 16000 | 35.5 | 43.4 | 47.1 | 45.9 | 47.8 | 50.3 | 51.4 | 51.6 | 48.6 | 38.3 | 19.5 |   |   |   |   |
| 540. FT/SEC        | 20000 | 32.0 | 46.3 | 35.8 | 41.7 | 42.1 | 46.7 | 46.5 | 46.1 | 42.6 | 38.8 | 6.6  |   |   |   |   |
|                    | 25000 | 27.2 | 35.8 | 24.7 | 38.2 | 34.8 | 39.8 | 36.9 | 35.9 | 36.5 | 16.7 |      |   |   |   |   |
|                    | 31500 | 12.8 | 22.7 | 12.2 | 27.2 | 23.4 | 27.6 | 25.7 | 23.6 | 15.2 |      |      |   |   |   |   |
|                    | 40000 |      | 3.2  |      | 12.0 | 5.1  | 8.6  | 6.7  | 2.6  |      |      |      |   |   |   |   |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
| OVERALL CALCULATED |       | 64.2 | 66.1 | 68.2 | 71.3 | 73.9 | 76.9 | 76.9 | 76.2 | 74.8 | 70.3 | 68.9 |   |   |   |   |
| PMP                |       | 77.3 | 79.0 | 81.7 | 84.8 | 87.5 | 89.4 | 90.5 | 90.0 | 89.1 | 84.8 | 73.8 |   |   |   |   |

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 OF POOR QUALITY



406

PAGE 1 FULL SCALE DATA ANALYSIS PROGRAM MODEL SOUND PRESSURE LEVELS 159.0 DB, F. 70 PERCENT REL. HUM. EAT) PRC. DATE - MONTH 12 DAY 17 ME. 19.6

|                    | 53    | 68    | 71    | 71    | 71    | 101   | 111   | 122   | 133   | 145   | 156   | 0     |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                    | 110.0 | 111.0 | 112.4 | 114.1 | 115.5 | 117.0 | 119.4 | 121.3 | 123.2 | 125.2 | 127.3 | 130.0 | 130.0 | 130.0 | 130.0 | 130.0 | 130.0 |
| RADIA, 17, FT.     | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    | 63    |
| VEHICLE            | 150   | 79.3  | 70.6  | 71.0  | 71.2  | 71.6  | 71.7  | 71.4  | 72.2  | 75.2  | 79.3  | 83.1  |       |       |       |       | 168.0 |
| CCIFIG             | 155   | 72.0  | 77.6  | 79.6  | 79.7  | 79.4  | 77.2  | 75.4  | 77.0  | 79.2  | 80.8  | 83.4  |       |       |       |       | 112.0 |
| LCC                | 160   | 71.5  | 71.0  | 71.9  | 72.7  | 73.4  | 73.7  | 74.9  | 77.2  | 78.7  | 81.3  | 83.1  |       |       |       |       | 116.0 |
| LCC SC-ELECTA Y    | 200   | 71.3  | 70.0  | 71.6  | 72.2  | 74.4  | 75.1  | 76.9  | 78.9  | 80.2  | 82.6  | 84.1  |       |       |       |       | 112.0 |
| DATE 12/11/74      | 200   | 75.0  | 74.5  | 76.1  | 76.1  | 77.4  | 77.0  | 79.1  | 75.4  | 80.7  | 81.5  | 83.1  |       |       |       |       | 112.0 |
| RUM 35/6           | 315   | 76.6  | 76.5  | 77.4  | 77.4  | 77.9  | 78.6  | 79.3  | 76.4  | 81.0  | 81.8  | 82.3  |       |       |       |       | 113.0 |
| YATE               | 400   | 75.3  | 75.4  | 75.7  | 75.5  | 76.1  | 76.7  | 77.7  | 76.4  | 79.5  | 81.1  | 81.3  |       |       |       |       | 111.0 |
| BAR 20.4 HG        | 500   | 74.3  | 73.6  | 73.1  | 74.9  | 76.1  | 77.2  | 75.4  | 80.7  | 81.0  | 80.9  | 79.0  |       |       |       |       | 112.3 |
| 102067.0 RPM/2     | 630   | 76.7  | 75.9  | 76.9  | 77.2  | 79.9  | 81.4  | 83.4  | 83.4  | 83.5  | 83.1  | 80.4  |       |       |       |       | 115.3 |
| YATE 44. DEC F     | 700   | 77.6  | 76.9  | 77.4  | 78.3  | 80.6  | 82.4  | 83.3  | 84.4  | 84.2  | 83.1  | 80.1  |       |       |       |       | 115.0 |
| 1278. DEC F        | 1000  | 75.5  | 75.1  | 75.1  | 78.9  | 80.3  | 82.7  | 83.8  | 84.9  | 85.5  | 84.1  | 79.4  |       |       |       |       | 116.2 |
| Y-ET 38. DEC F     | 1200  | 76.7  | 75.9  | 79.6  | 81.8  | 84.2  | 86.2  | 87.1  | 88.6  | 87.0  | 85.4  | 80.4  |       |       |       |       | 110.0 |
| 1278. DEC F        | 1400  | 82.9  | 82.4  | 86.4  | 88.6  | 91.7  | 93.0  | 94.3  | 94.4  | 93.2  | 90.4  | 85.1  |       |       |       |       | 125.5 |
| MACT 4-30 CH/FT    | 2000  | 75.4  | 83.7  | 86.6  | 89.3  | 92.2  | 93.4  | 95.3  | 95.1  | 93.8  | 90.7  | 85.8  |       |       |       |       | 120.2 |
| 100430 RPM/FT      | 2500  | 75.9  | 84.3  | 85.5  | 89.1  | 91.0  | 93.3  | 93.3  | 92.6  | 92.6  | 84.2  | 83.9  |       |       |       |       | 124.0 |
| NFA 7005. RPM      | 3100  | 82.4  | 83.2  | 86.1  | 89.4  | 92.5  | 94.5  | 95.5  | 95.1  | 96.3  | 91.9  | 86.6  |       |       |       |       | 127.0 |
| 1730. RPM/SEC      | 4000  | 81.0  | 83.2  | 86.6  | 89.7  | 92.8  | 95.2  | 96.2  | 96.5  | 96.2  | 92.1  | 86.8  |       |       |       |       | 127.6 |
| NFA 7169. RPM      | 5000  | 87.6  | 82.4  | 85.0  | 88.5  | 91.3  | 93.7  | 95.9  | 96.2  | 95.6  | 91.6  | 85.7  |       |       |       |       | 126.0 |
| 1731. RPM/SEC      | 6300  | 79.7  | 80.6  | 84.3  | 86.8  | 90.4  | 92.7  | 94.7  | 95.3  | 95.9  | 91.8  | 85.1  |       |       |       |       | 128.2 |
| NFC 8023. RPM      | 8000  | 77.6  | 79.9  | 82.8  | 85.6  | 89.1  | 91.4  | 93.5  | 95.0  | 95.1  | 90.8  | 84.9  |       |       |       |       | 125.4 |
| 1924. RPM/SEC      | 10000 | 77.2  | 78.4  | 81.6  | 85.6  | 88.7  | 91.3  | 94.1  | 94.8  | 96.2  | 91.3  | 85.6  |       |       |       |       | 125.9 |
| NO. OF BLAZES 15   | 12500 | 76.0  | 76.8  | 79.8  | 83.7  | 87.4  | 89.4  | 92.4  | 94.4  | 94.9  | 90.2  | 84.1  |       |       |       |       | 124.9 |
| FAN TIP SPEED      | 16000 | 79.0  | 73.7  | 77.0  | 80.4  | 84.1  | 87.2  | 90.0  | 92.2  | 92.7  | 87.1  | 82.8  |       |       |       |       | 122.8 |
| 617. FT/SEC        | 20000 | 71.9  | 72.7  | 76.2  | 80.4  | 83.5  | 86.6  | 90.3  | 92.4  | 93.9  | 88.1  | 82.1  |       |       |       |       | 123.7 |
|                    | 25000 | 71.2  | 71.2  | 74.5  | 79.2  | 82.5  | 85.5  | 89.7  | 91.1  | 92.1  | 86.8  | 81.8  |       |       |       |       | 122.9 |
|                    | 31500 | 69.6  | 70.1  | 73.0  | 79.6  | 81.0  | 84.7  | 87.5  | 89.8  | 90.5  | 85.4  | 78.7  |       |       |       |       | 122.5 |
|                    | 40000 | 67.4  | 67.7  | 71.7  | 76.4  | 78.1  | 82.1  | 84.9  | 86.2  | 87.5  | 82.4  | 73.8  |       |       |       |       | 120.8 |
|                    | 50000 | 67.6  | 66.0  | 68.7  | 74.0  | 74.6  | 78.5  | 80.9  | 81.6  | 82.7  | 79.0  | 69.1  |       |       |       |       | 118.4 |
|                    | 73000 | 65.3  | 65.3  | 67.8  | 68.7  | 68.9  | 72.4  | 74.9  | 74.8  | 75.4  | 73.1  | 64.7  |       |       |       |       | 115.8 |
|                    | 80000 | 71.9  | 71.0  | 69.6  | 67.0  | 67.3  | 68.2  | 68.9  | 68.5  | 69.0  | 67.4  | 65.0  |       |       |       |       | 115.0 |
| OVERALL MEASURED   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| OVERALL CALCULATED |       | 82.5  | 83.1  | 85.9  | 88.8  | 101.6 | 103.7 | 105.4 | 106.0 | 106.3 | 102.3 | 97.0  |       |       |       |       | 137.4 |
| PRCR               |       | 135.5 | 146.2 | 159.0 | 111.8 | 114.5 | 116.7 | 117.9 | 118.2 | 118.2 | 114.8 | 110.3 |       |       |       |       |       |

DATE: NOVEMBER 1974 11:13 PM

MODEL SOUND PRESSURE LEVELS (90, DEG, P, 70 PERCENT REL, MIN, EAV)  
 DISTANCES FROM TRICY TO DEGREEE (AND TABULARS)

|                       | 53    | 62    | 71    | 81    | 91    | 101   | 111   | 122   | 133   | 145   | 156   | 0     | 0     | 0     | 0     | 0     |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Dist. (ft.)           | (1.7) | (1.5) | (1.2) | (1.4) | (1.3) | (1.7) | (1.5) | (2.1) | (2.3) | (2.3) | (2.5) | (2.3) | 0     | 0     | 0     | 0     |
| SIDE LINE 200. FT.    | 50    | 63    | 80    |       |       |       |       |       |       |       |       |       |       |       |       |       |
| VEHICLE               | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 600   | 700   | 800   | 1000  | 1250  | 1600  | 2000  | 2500  |
| CONF                  | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    |
| LCC SCHENECTADY       | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   |
| DATE 12/11/74         | 255   | 255   | 255   | 255   | 255   | 255   | 255   | 255   | 255   | 255   | 255   | 255   | 255   | 255   | 255   | 255   |
| NUM 35/0              | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   |
| TYPE                  | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   |
| BAR 20.8 MC           | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   |
| 1000000 RPM           | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   |
| YAW 40 DEG F          | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   |
| 1000000 RPM           | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   |
| TRCY 30 DEG F         | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  |
| 1270 DEG F            | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  |
| NACT 4.30 CM/MS       | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  |
| 1000000 RPM           | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  |
| MFA 7005 RPM          | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  |
| 1740 RPM/SEC          | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  |
| MFK 7100 RPM          | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  |
| 1751 RPM/SEC          | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  |
| MFD 8023 RPM          | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  |
| 1924 RPM/SEC          | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 |
| NO OF BLADES 15 125JC | 42.1  | 45.6  | 49.2  | 54.0  | 57.9  | 59.6  | 61.6  | 61.6  | 61.6  | 61.6  | 61.6  | 61.6  | 61.6  | 61.6  | 61.6  | 61.6  |
| PAN TIP SPEED 16000   | 34.3  | 37.9  | 42.0  | 47.8  | 51.8  | 53.8  | 55.4  | 55.3  | 59.1  | 59.1  | 59.1  | 59.1  | 59.1  | 59.1  | 59.1  | 59.1  |
| 617 FT/SEC 20000      | 27.2  | 31.3  | 36.0  | 42.2  | 45.6  | 48.2  | 50.5  | 49.6  | 46.6  | 46.6  | 46.6  | 46.6  | 46.6  | 46.6  | 46.6  | 46.6  |
| 25000                 | 17.7  | 22.9  | 27.9  | 34.7  | 37.8  | 40.3  | 41.7  | 40.4  | 39.3  | 39.3  | 39.3  | 39.3  | 39.3  | 39.3  | 39.3  | 39.3  |
| 31500                 | 3.6   | 9.5   | 15.9  | 24.5  | 26.4  | 29.4  | 29.7  | 27.3  | 19.7  | 19.7  | 19.7  | 19.7  | 19.7  | 19.7  | 19.7  | 19.7  |
| 40000                 |       |       |       | 6.3   | 8.8   | 11.7  | 11.2  | 6.1   |       |       |       |       |       |       |       |       |
| 50000                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 63000                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 80000                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| OVERALL CALCULATED    | 66.5  | 68.2  | 71.6  | 74.7  | 77.6  | 79.3  | 80.1  | 79.2  | 77.3  | 71.2  | 63.7  |       |       |       |       |       |
| PN20                  | 79.4  | 81.3  | 84.8  | 88.0  | 90.9  | 92.8  | 93.4  | 92.8  | 91.8  | 84.7  | 78.3  |       |       |       |       |       |

ANGLES FROM INLET IN DEGREES (AIRCRAFT)

|                    | 57     | 64     | 71     | 81     | 91     | 101    | 111    | 127    | 133    | 145    | 159    | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |       |       |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|---|---|---|---|---|---|---|---|---|-------|-------|
| FREQ.              | (1.72) | (1.68) | (1.64) | (1.61) | (1.58) | (1.56) | (1.54) | (1.52) | (2.33) | (2.52) | (2.73) | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |       |       |
| RADIA 17. FT.      | 59     | 63     | 68     |        |        |        |        |        |        |        |        |       |   |   |   |   |   |   |   |   |   |       |       |
| VEHICLE            | 160    | 72.3   | 72.3   | 73.9   | 72.0   | 74.1   | 74.1   | 74.4   | 74.6   | 77.9   | 82.5   | 88.8  |   |   |   |   |   |   |   |   |   | 112.0 |       |
| CONFIG             | 125    | 74.8   | 74.3   | 81.1   | 81.7   | 82.9   | 81.1   | 82.4   | 84.9   | 84.4   | 85.7   | 88.3  |   |   |   |   |   |   |   |   |   |       | 117.3 |
| LCC                | 160    | 75.3   | 75.1   | 75.4   | 76.1   | 76.9   | 76.1   | 76.4   | 79.4   | 81.6   | 84.0   | 88.3  |   |   |   |   |   |   |   |   |   |       | 113.8 |
| DAYE               | 250    | 75.2   | 74.3   | 74.4   | 75.4   | 77.6   | 78.9   | 82.1   | 81.4   | 82.4   | 85.4   | 87.0  |   |   |   |   |   |   |   |   |   |       | 114.0 |
| NUM                | 250    | 74.2   | 78.0   | 74.8   | 79.6   | 81.1   | 81.1   | 82.3   | 82.8   | 83.4   | 84.4   | 88.5  |   |   |   |   |   |   |   |   |   |       | 116.2 |
| TYPE               | 315    | 79.5   | 79.3   | 79.4   | 80.4   | 83.7   | 80.6   | 81.1   | 82.1   | 82.9   | 84.7   | 89.8  |   |   |   |   |   |   |   |   |   |       | 119.8 |
| BAR                | 420    | 74.3   | 79.1   | 75.3   | 78.4   | 77.1   | 79.6   | 81.1   | 82.1   | 82.4   | 84.2   | 85.1  |   |   |   |   |   |   |   |   |   |       | 115.2 |
| TAFB               | 552    | 77.3   | 77.3   | 76.4   | 77.7   | 78.6   | 80.4   | 82.3   | 83.6   | 83.9   | 84.2   | 85.4  |   |   |   |   |   |   |   |   |   |       | 115.4 |
| TAET               | 639    | 79.3   | 78.6   | 79.6   | 80.4   | 81.9   | 83.7   | 85.3   | 85.6   | 85.4   | 85.9   | 82.8  |   |   |   |   |   |   |   |   |   |       | 117.8 |
| FACT               | 459    | 73.1   | 81.1   | 82.3   | 81.2   | 83.6   | 84.2   | 86.4   | 86.9   | 87.1   | 87.7   | 88.3  |   |   |   |   |   |   |   |   |   |       | 119.1 |
| WFA                | 1250   | 78.7   | 78.3   | 79.1   | 81.2   | 83.4   | 85.2   | 87.1   | 87.6   | 87.6   | 87.3   | 82.4  |   |   |   |   |   |   |   |   |   |       | 119.5 |
| NFR                | 1250   | 79.6   | 78.8   | 81.6   | 84.2   | 85.9   | 88.2   | 89.1   | 89.1   | 88.1   | 89.5   | 82.8  |   |   |   |   |   |   |   |   |   |       | 120.9 |
| WFA                | 1250   | 82.1   | 82.4   | 84.6   | 86.2   | 88.2   | 91.2   | 92.1   | 91.4   | 90.8   | 88.8   | 82.8  |   |   |   |   |   |   |   |   |   |       | 123.3 |
| NFR                | 2050   | 80.4   | 82.9   | 82.6   | 83.3   | 86.7   | 88.2   | 90.8   | 92.3   | 92.7   | 92.9   | 88.0  |   |   |   |   |   |   |   |   |   |       | 130.4 |
| NFR                | 2550   | 85.1   | 85.7   | 87.4   | 88.0   | 91.5   | 95.7   | 96.5   | 95.3   | 95.2   | 96.0   | 88.0  |   |   |   |   |   |   |   |   |   |       | 127.4 |
| NFR                | 3150   | 84.6   | 84.7   | 87.3   | 91.1   | 94.0   | 95.7   | 97.5   | 96.3   | 97.7   | 92.5   | 87.8  |   |   |   |   |   |   |   |   |   |       | 128.4 |
| NFR                | 4650   | 86.1   | 86.4   | 88.4   | 93.3   | 96.2   | 97.7   | 98.8   | 100.2  | 98.6   | 94.2   | 90.2  |   |   |   |   |   |   |   |   |   |       | 130.7 |
| NFR                | 5000   | 83.8   | 85.1   | 88.2   | 91.9   | 94.5   | 96.4   | 98.4   | 96.4   | 98.3   | 92.0   | 88.4  |   |   |   |   |   |   |   |   |   |       | 129.4 |
| NFR                | 6350   | 85.9   | 88.2   | 87.2   | 91.4   | 94.1   | 94.8   | 98.7   | 98.7   | 98.6   | 93.9   | 89.8  |   |   |   |   |   |   |   |   |   |       | 129.8 |
| NFR                | 8000   | 91.0   | 82.9   | 85.7   | 89.4   | 91.8   | 94.0   | 97.2   | 98.0   | 98.4   | 92.1   | 87.6  |   |   |   |   |   |   |   |   |   |       | 128.6 |
| NFR                | 10660  | 80.8   | 81.7   | 85.8   | 89.3   | 91.6   | 94.9   | 96.5   | 96.7   | 98.5   | 93.1   | 88.8  |   |   |   |   |   |   |   |   |   |       | 128.9 |
| NFR                | 12550  | 82.3   | 82.7   | 83.6   | 87.3   | 91.1   | 94.1   | 96.3   | 97.6   | 98.3   | 92.0   | 87.3  |   |   |   |   |   |   |   |   |   |       | 128.4 |
| NFR                | 16550  | 77.2   | 78.2   | 80.8   | 84.3   | 87.8   | 91.0   | 93.7   | 96.6   | 95.8   | 90.1   | 85.2  |   |   |   |   |   |   |   |   |   |       | 128.5 |
| NFR                | 20050  | 76.7   | 77.3   | 80.0   | 84.6   | 86.9   | 90.4   | 93.4   | 95.7   | 95.7   | 89.9   | 85.8  |   |   |   |   |   |   |   |   |   |       | 128.5 |
| NFR                | 25050  | 77.1   | 77.1   | 79.5   | 83.3   | 87.0   | 90.8   | 92.8   | 95.3   | 95.8   | 89.7   | 85.0  |   |   |   |   |   |   |   |   |   |       | 128.9 |
| NFR                | 31550  | 75.9   | 76.3   | 78.5   | 82.4   | 85.8   | 89.5   | 91.8   | 94.3   | 94.2   | 88.8   | 83.1  |   |   |   |   |   |   |   |   |   |       | 128.0 |
| NFR                | 40050  | 75.0   | 74.8   | 76.5   | 79.5   | 83.5   | 85.9   | 89.5   | 91.1   | 91.3   | 85.9   | 77.9  |   |   |   |   |   |   |   |   |   |       | 129.2 |
| NFR                | 50050  | 76.0   | 75.9   | 77.3   | 77.5   | 80.1   | 83.5   | 87.8   | 86.6   | 86.9   | 83.4   | 75.1  |   |   |   |   |   |   |   |   |   |       | 123.5 |
| NFR                | 63050  | 78.8   | 74.7   | 80.8   | 75.0   | 76.7   | 79.3   | 81.0   | 83.5   | 86.7   | 78.3   | 73.8  |   |   |   |   |   |   |   |   |   |       | 121.8 |
| NFR                | 80050  | 82.6   | 77.1   | 80.2   | 77.1   | 77.7   | 78.5   | 78.5   | 77.6   | 76.5   | 76.4   | 75.5  |   |   |   |   |   |   |   |   |   |       | 128.4 |
| OVERALL MEASURE    |        |        |        |        |        |        |        |        |        |        |        |       |   |   |   |   |   |   |   |   |   |       |       |
| OVERALL CALCULATED |        | 86.5   | 86.6   | 89.0   | 101.5  | 104.5  | 106.0  | 108.3  | 109.1  | 109.1  | 104.3  | 100.9 |   |   |   |   |   |   |   |   |   |       | 140.8 |
| PACT               |        | 107.4  | 109.3  | 111.9  | 114.9  | 117.9  | 119.2  | 120.6  | 121.3  | 121.8  | 116.6  | 113.3 |   |   |   |   |   |   |   |   |   |       |       |

14-58838-1000 (REV. 11-59) 14-58838-1000 (REV. 11-59)

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|                       | 53   | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 155  | 165  | 175  | 185  | 195  | 205  |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| VEHICLE               | 47.8 | 49.6 | 51.8 | 51.2 | 52.5 | 52.4 | 52.1 | 51.8 | 53.5 | 55.9 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 |
| CONFIG                | 51.2 | 52.5 | 53.1 | 54.3 | 55.1 | 54.2 | 56.2 | 56.4 | 57.0 | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 |
| LCC SCHEMECTAV        | 51.3 | 51.7 | 52.5 | 53.4 | 55.8 | 55.0 | 57.8 | 58.0 | 57.8 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 |
| DATE 12/11/74         | 54.2 | 55.2 | 56.4 | 57.6 | 58.2 | 59.0 | 59.9 | 59.4 | 59.4 | 59.4 | 59.4 | 59.4 | 59.4 | 59.4 | 59.4 | 59.4 |
| RUN 377               | 55.3 | 56.1 | 57.1 | 58.3 | 58.9 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 |
| TYPE                  | 54.9 | 55.3 | 55.8 | 56.2 | 57.1 | 57.2 | 58.2 | 58.3 | 57.5 | 57.5 | 56.8 | 56.8 | 56.8 | 56.8 | 56.8 | 56.8 |
| BAR 30.0 MC           | 57.9 | 53.9 | 54.2 | 55.4 | 56.5 | 58.1 | 59.5 | 59.9 | 58.7 | 58.8 | 58.8 | 58.8 | 58.8 | 58.8 | 58.8 | 58.8 |
| 100007. W/M/SI        | 54.8 | 55.1 | 56.4 | 58.9 | 59.7 | 61.2 | 62.4 | 61.8 | 60.8 | 60.8 | 60.8 | 60.8 | 60.8 | 60.8 | 60.8 | 60.8 |
| TAPS 44. SEC 7        | 59.4 | 57.3 | 59.4 | 59.2 | 61.3 | 62.0 | 63.8 | 62.9 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 |
| 1256. SEC 1           | 54.7 | 54.8 | 56.1 | 56.4 | 63.9 | 62.5 | 63.9 | 63.5 | 61.9 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 |
| T-ET 39. SEC 2        | 54.6 | 54.7 | 56.4 | 61.3 | 63.3 | 65.4 | 65.8 | 64.8 | 62.3 | 61.1 | 60.8 | 60.8 | 60.8 | 60.8 | 60.8 | 60.8 |
| 1277. SEC 1           | 55.9 | 58.3 | 61.2 | 63.4 | 64.4 | 68.2 | 68.4 | 67.1 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 |
| MACT 4.02 GN/M3       | 64.2 | 65.4 | 68.8 | 70.7 | 73.8 | 75.1 | 75.1 | 74.4 | 71.3 | 63.7 | 63.7 | 63.7 | 63.7 | 63.7 | 63.7 | 63.7 |
| 100002 W/M/SI         | 57.5 | 61.1 | 63.8 | 67.5 | 70.4 | 72.4 | 72.7 | 70.4 | 68.5 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 |
| NFA 7850. RPM         | 59.8 | 59.8 | 63.3 | 67.5 | 70.6 | 72.1 | 73.3 | 71.8 | 70.6 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 |
| 1022. WAT/SEC         | 59.5 | 61.1 | 65.3 | 69.4 | 72.4 | 73.7 | 74.3 | 74.5 | 72.0 | 63.8 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 |
| NFK 7800. RPM         | 58.7 | 59.5 | 63.5 | 67.8 | 70.4 | 72.1 | 73.5 | 72.4 | 70.4 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 |
| 1034. WAT/SEC         | 59.1 | 59.4 | 61.7 | 65.5 | 69.3 | 71.4 | 73.8 | 71.9 | 71.4 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 |
| NFB 8023. RPM         | 51.9 | 55.3 | 59.1 | 63.4 | 66.8 | 68.7 | 70.4 | 65.8 | 66.8 | 66.8 | 66.8 | 66.8 | 66.8 | 66.8 | 66.8 | 66.8 |
| 1024. WAT/SEC         | 49.8 | 57.4 | 58.8 | 61.7 | 64.3 | 67.3 | 68.1 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 |
| NO. OF BLADES 15 1294 | 48.4 | 48.8 | 53.1 | 58.1 | 61.5 | 64.2 | 65.9 | 65.8 | 62.8 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 |
| PM TIP SPEED 16800    | 34.8 | 42.2 | 46.4 | 51.4 | 54.8 | 57.5 | 59.8 | 59.7 | 58.1 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 |
| 800. FT/SEC           | 32.1 | 35.9 | 40.6 | 45.7 | 49.8 | 52.1 | 53.8 | 53.2 | 48.4 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 |
| 25000                 | 21.7 | 26.8 | 33.9 | 38.2 | 42.3 | 44.8 | 45.7 | 44.7 | 39.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 |
| 31800                 | 9.8  | 15.7 | 21.4 | 27.2 | 31.2 | 34.1 | 34.8 | 31.8 | 23.4 | 9.1  | 9.1  | 9.1  | 9.1  | 9.1  | 9.1  | 9.1  |
| 48000                 |      |      | 3.7  | 9.6  | 13.7 | 16.5 | 15.8 | 16.9 |      |      |      |      |      |      |      |      |
| 53000                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 63000                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 69000                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| OVERALL CALCULATED    | 70.2 | 71.4 | 74.5 | 77.5 | 80.3 | 81.8 | 82.7 | 81.8 | 78.8 | 73.3 | 67.8 | 67.8 | 67.8 | 67.8 | 67.8 | 67.8 |
| PM20                  | 83.6 | 84.8 | 87.9 | 91.1 | 93.8 | 95.3 | 96.1 | 95.8 | 93.8 | 86.8 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 |

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PAGE 1

FULL SCALE DATA RE-EVAL. PROGRAM

PLATE DATE - 10 MAY 72 DAY 17 No. 19.0

NOISE SOUND PRESSURE LEVELS 150. L<sub>EQ</sub> F. 70 PERCENT DEL. (Mm, Fav)

ANGLES FROM FULLY IN DEGREES LONG RADIANS

52, 62, 71, 81, 91, 101, 111, 121, 131, 145, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0

|                    | 52    | 62    | 71    | 81    | 91    | 101   | 111   | 121   | 131   | 145   | 150   | 0     | 0     | 0 | 0 | 0 | 0 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|---|---|---|
| RADIAL 17. FT.     | 63    |       |       |       |       |       |       |       |       |       |       |       |       |   |   |   |   |
| VEHICLE 1 S. H.    | 102   | 71.3  | 72.1  | 73.1  | 72.4  | 73.6  | 74.2  | 74.1  | 72.6  | 72.9  | 85.2  | 86.3  | 111.7 |   |   |   |   |
| VEHICLE 2 S. H.    | 105   | 75.8  | 76.3  | 80.6  | 82.1  | 82.6  | 81.1  | 82.1  | 84.9  | 84.6  | 85.5  | 88.1  | 117.2 |   |   |   |   |
| VEHICLE 3 S. H.    | 110   | 75.3  | 75.3  | 75.2  | 76.4  | 76.9  | 76.6  | 78.4  | 79.9  | 81.6  | 84.8  | 86.6  | 113.6 |   |   |   |   |
| LOC SC-F-ECTA2     | 200   | 75.3  | 74.3  | 75.1  | 75.6  | 77.1  | 79.4  | 79.6  | 81.4  | 82.6  | 85.2  | 87.5  | 114.9 |   |   |   |   |
| DATE 12/11/74      | 250   | 78.5  | 77.5  | 74.0  | 79.3  | 80.1  | 81.1  | 82.1  | 83.6  | 83.6  | 84.7  | 86.5  | 119.9 |   |   |   |   |
| NUM 35/8           | 315   | 77.3  | 79.1  | 79.3  | 80.1  | 89.6  | 89.9  | 81.1  | 82.1  | 82.6  | 84.4  | 85.8  | 115.7 |   |   |   |   |
| TYPE 400           | 400   | 74.4  | 77.3  | 78.1  | 78.4  | 79.1  | 79.9  | 81.1  | 81.6  | 82.4  | 83.9  | 84.8  | 114.0 |   |   |   |   |
| BAR 20.8 MC        | 520   | 77.1  | 77.1  | 78.8  | 77.6  | 79.1  | 81.1  | 82.6  | 83.6  | 83.9  | 84.5  | 83.8  | 115.0 |   |   |   |   |
| (0667.474)         | 630   | 79.3  | 78.6  | 79.6  | 80.4  | 82.1  | 83.8  | 84.8  | 85.1  | 85.9  | 85.8  | 83.8  | 117.3 |   |   |   |   |
| TARD 44. DEG       | 700   | 83.1  | 81.3  | 82.0  | 81.4  | 84.4  | 85.2  | 86.8  | 86.9  | 86.9  | 85.5  | 84.9  | 119.1 |   |   |   |   |
| (570. DEG)         | 850   | 75.7  | 74.5  | 73.3  | 81.2  | 83.6  | 85.4  | 86.5  | 87.3  | 87.4  | 86.2  | 82.8  | 118.7 |   |   |   |   |
| T-ET 39. DEG       | 1259  | 79.4  | 79.8  | 82.3  | 84.7  | 86.4  | 88.2  | 89.6  | 89.1  | 88.1  | 86.5  | 82.8  | 120.6 |   |   |   |   |
| (277. DEG)         | 1670  | 82.1  | 82.6  | 85.1  | 87.3  | 87.5  | 91.2  | 91.8  | 91.6  | 90.9  | 87.8  | 82.8  | 123.3 |   |   |   |   |
| MACT 4.02 CM/Y     | 2000  | 85.1  | 89.6  | 92.8  | 94.3  | 96.7  | 96.5  | 98.1  | 99.3  | 98.2  | 92.3  | 88.6  | 126.6 |   |   |   |   |
| (1.80482)          | 2500  | 84.7  | 85.8  | 88.1  | 91.1  | 94.0  | 95.5  | 96.0  | 95.3  | 94.0  | 89.5  | 86.1  | 127.3 |   |   |   |   |
| MFA 7849. MP       | 3130  | 84.6  | 85.2  | 87.0  | 90.8  | 93.8  | 96.0  | 97.3  | 94.5  | 97.4  | 93.8  | 87.5  | 128.4 |   |   |   |   |
| ( 822. MP/SEC)     | 4000  | 86.1  | 86.4  | 90.0  | 93.8  | 96.2  | 97.7  | 99.4  | 100.0 | 99.4  | 94.7  | 89.5  | 130.6 |   |   |   |   |
| MFK 7045. MP       | 5100  | 83.2  | 85.4  | 88.7  | 91.8  | 94.7  | 96.9  | 96.9  | 96.2  | 96.6  | 93.2  | 87.9  | 129.5 |   |   |   |   |
| ( 834. MP/SEC)     | 6200  | 85.9  | 86.4  | 88.2  | 91.9  | 93.8  | 96.4  | 96.9  | 95.2  | 96.1  | 93.4  | 88.5  | 130.9 |   |   |   |   |
| MFB 8023. MP       | 7300  | 86.8  | 83.1  | 86.8  | 89.4  | 92.5  | 94.6  | 97.5  | 97.7  | 97.2  | 92.1  | 87.3  | 130.3 |   |   |   |   |
| ( 924. MP/SEC)     | 10000 | 87.7  | 82.2  | 85.6  | 89.8  | 91.9  | 94.8  | 97.9  | 96.2  | 96.2  | 92.9  | 88.6  | 129.6 |   |   |   |   |
| NC OF BLADES IS    | 12500 | 89.3  | 81.2  | 84.8  | 87.3  | 91.1  | 93.8  | 96.3  | 97.8  | 96.5  | 92.8  | 87.8  | 129.8 |   |   |   |   |
| PAH 110 MP/SEC     | 16800 | 77.2  | 77.9  | 81.6  | 85.8  | 87.5  | 90.8  | 93.7  | 95.9  | 95.3  | 88.6  | 85.5  | 126.2 |   |   |   |   |
| 805. FT/SEC        | 20000 | 76.7  | 77.3  | 80.5  | 85.5  | 87.1  | 90.2  | 93.4  | 96.6  | 95.7  | 89.6  | 85.8  | 126.8 |   |   |   |   |
|                    | 25000 | 77.6  | 77.7  | 80.5  | 86.5  | 88.5  | 92.8  | 95.6  | 98.5  | 98.8  | 90.9  | 84.3  | 127.8 |   |   |   |   |
|                    | 31500 | 74.1  | 76.3  | 79.8  | 82.9  | 85.3  | 89.5  | 92.8  | 94.3  | 94.4  | 89.3  | 83.1  | 126.8 |   |   |   |   |
|                    | 40000 | 75.3  | 74.9  | 77.3  | 80.9  | 83.8  | 88.7  | 88.5  | 91.1  | 91.5  | 86.9  | 77.4  | 125.4 |   |   |   |   |
|                    | 50000 | 74.4  | 74.8  | 77.8  | 78.3  | 80.4  | 83.5  | 87.0  | 84.4  | 87.1  | 82.9  | 75.1  | 123.8 |   |   |   |   |
|                    | 63000 | 73.6  | 74.7  | 77.2  | 78.4  | 78.7  | 79.1  | 81.5  | 80.5  | 80.7  | 77.8  | 73.3  | 121.6 |   |   |   |   |
|                    | 79000 | 82.6  | 77.1  | 80.2  | 77.1  | 77.7  | 76.5  | 78.5  | 77.6  | 78.8  | 78.4  | 75.5  | 128.4 |   |   |   |   |
| OVERALL CALCULATED |       | 96.5  | 98.6  | 99.4  | 102.2 | 104.6 | 106.7 | 108.5 | 109.1 | 109.8 | 104.1 | 100.6 |       |   |   |   |   |
| OVERALL CALCULATED |       | 109.4 | 109.4 | 112.2 | 115.2 | 117.6 | 119.2 | 120.9 | 121.1 | 120.9 | 116.8 | 112.9 |       |   |   |   |   |

METRIC MEASUREMENTS (CM, MM)  
 1970-1975  
 FORM 100  
 PREPARED BY 01A  
 01

1

PAGE 3 FULL SCALE DATA COLLECTION PROGRAM

NOISE SOUND PRESSURE LEVELS (90, 100, 110, 120 PERCENT DNL, MIN, EAR)

DATE - 10-17-70 12 HAV 17 19, 0

INCHES FROM TRACT IN LEVELS TAKEN VARIANTS

|                    | 53          | 62    | 71    | 81    | 91    | 101   | 111   | 122   | 133   | 143   | 153   | 163   | 173   | 183   | 193   | 203   |
|--------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PRE-               | 10.02       | 11.05 | 12.08 | 13.11 | 14.14 | 15.17 | 16.20 | 17.23 | 18.26 | 19.29 | 20.32 | 21.35 | 22.38 | 23.41 | 24.44 | 25.47 |
| 30                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 60                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| SIDE LINE 200. FT. |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| VEHICLE            | 100         | 200   | 300   | 400   | 500   | 600   | 700   | 800   | 900   | 1000  | 1100  | 1200  | 1300  | 1400  | 1500  | 1600  |
| CLASS              | A-53        | A-53  | A-53  | A-53  | A-53  | A-53  | A-53  | A-53  | A-53  | A-53  | A-53  | A-53  | A-53  | A-53  | A-53  | A-53  |
| LOC                | 23          | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    |
| DATE               | 12/1/77     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| TRA                | 35.0        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| TYPE               | 0.0 MS      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| TIME               | 0.0         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| TRAC               | 0.0         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| TACT               | 30. 26. 7   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NACT               | 4. 02 01/71 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFA                | 70. 0 07    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFB                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFC                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFD                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFE                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFF                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFG                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFH                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFI                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFJ                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFK                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFL                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFM                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFN                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFO                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| NFP                | 0423. 29    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| OVERALL CALCULATED | 70.1        | 71.4  | 72.8  | 74.2  | 75.5  | 76.9  | 78.2  | 79.6  | 80.9  | 82.3  | 83.6  | 85.0  | 86.3  | 87.7  | 89.0  | 90.4  |
| POST               | 83.0        | 84.0  | 85.3  | 86.5  | 87.8  | 89.0  | 90.3  | 91.5  | 92.8  | 94.0  | 95.3  | 96.5  | 97.8  | 99.0  | 100.3 | 101.5 |



MODEL SOUND PRESSURE LEVELS (59. MFG. F. 70 PERCENT REL. HUM. EAV)

ANGLES FROM TAILET IN DEGREES (AND RADIANS)

|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0    | 0   | 0   | 0   | 0   | 0   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|
| PRC.               | (0.92) | (1.00) | (1.24) | (1.41) | (1.58) | (1.75) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0) |
| SIDE, INE 200. FT. | 50     | 53     | 56     | 59     | 63     | 67     | 71     | 75     | 79     | 83     | 87     | 91   | 95  | 99  | 103 | 107 | 111 |
| VEHICLE            | 100    | 52.9   | 54.4   | 54.8   | 51.7   | 51.5   | 49.7   | 56.9   | 50.1   | 46.3   | 49.0   | 47.0 |     |     |     |     |     |
| CONFIG R-56        | 125    | 43.3   | 44.6   | 46.5   | 48.9   | 51.0   | 47.3   | 46.1   | 47.8   | 47.7   | 46.2   | 44.4 |     |     |     |     |     |
| LOC SCHEMECTARY    | 150    | 32.3   | 33.7   | 34.4   | 35.6   | 36.9   | 40.3   | 46.5   | 47.2   | 47.3   | 47.3   | 44.1 |     |     |     |     |     |
| DATE 12/11/74      | 200    | 41.8   | 43.4   | 45.6   | 45.7   | 47.1   | 48.4   | 49.7   | 49.6   | 49.2   | 48.9   | 46.4 |     |     |     |     |     |
| RUN 3579           | 250    | 44.7   | 46.3   | 48.2   | 48.4   | 49.7   | 50.1   | 50.8   | 50.5   | 49.3   | 48.7   | 44.7 |     |     |     |     |     |
| TAPE               | 315    | 47.4   | 48.5   | 49.4   | 50.6   | 50.9   | 51.3   | 50.5   | 50.1   | 49.2   | 48.1   | 43.8 |     |     |     |     |     |
| BAR 29.8 HG        | 400    | 45.3   | 46.1   | 46.6   | 49.2   | 49.3   | 50.4   | 50.8   | 50.0   | 48.8   | 47.4   | 43.0 |     |     |     |     |     |
| 100067. H/M2)      | 500    | 44.4   | 45.3   | 46.0   | 46.9   | 48.2   | 49.9   | 51.0   | 51.2   | 50.0   | 47.8   | 42.3 |     |     |     |     |     |
| TAMP 44. DEG F     | 630    | 47.8   | 47.4   | 49.4   | 50.6   | 52.4   | 54.3   | 54.9   | 54.5   | 53.1   | 50.8   | 43.5 |     |     |     |     |     |
| 1200. DEG R1       | 800    | 49.4   | 49.9   | 50.7   | 50.7   | 53.5   | 54.7   | 55.8   | 55.2   | 54.2   | 51.4   | 43.5 |     |     |     |     |     |
| TNET 39. DEG F     | 1000   | 46.6   | 47.1   | 48.1   | 51.3   | 54.2   | 55.3   | 56.7   | 57.6   | 56.8   | 53.2   | 41.9 |     |     |     |     |     |
| (277. DEG R)       | 1250   | 51.2   | 51.5   | 55.2   | 54.0   | 60.1   | 62.4   | 63.3   | 63.5   | 61.8   | 58.9   | 46.3 |     |     |     |     |     |
| MACT 4.02 CM/H3    | 1600   | 51.2   | 51.8   | 55.0   | 57.9   | 60.4   | 62.3   | 63.1   | 62.6   | 60.4   | 58.9   | 44.8 |     |     |     |     |     |
| (0.00482 RC/M3)    | 2000   | 51.5   | 52.1   | 54.6   | 58.5   | 60.8   | 62.1   | 62.6   | 61.7   | 59.6   | 58.8   | 44.8 |     |     |     |     |     |
| MFA 5491. RPM      | 2500   | 52.0   | 53.5   | 55.3   | 59.3   | 62.1   | 63.9   | 65.2   | 65.2   | 65.6   | 62.0   | 48.4 |     |     |     |     |     |
| (575. RAD/SEC)     | 3150   | 59.4   | 51.4   | 54.8   | 57.5   | 61.1   | 63.7   | 64.6   | 64.3   | 63.2   | 59.8   | 46.2 |     |     |     |     |     |
| MFK 5572. RPM      | 4000   | 48.6   | 50.9   | 54.1   | 57.9   | 60.9   | 63.5   | 64.8   | 64.5   | 62.3   | 57.8   | 45.5 |     |     |     |     |     |
| (503. RAD/SEC)     | 5000   | 48.0   | 48.6   | 52.3   | 55.4   | 58.9   | 61.7   | 63.8   | 63.2   | 62.2   | 56.3   | 44.1 |     |     |     |     |     |
| MFD 8023. RPM      | 6300   | 44.4   | 46.6   | 50.3   | 53.6   | 58.8   | 59.2   | 61.5   | 61.6   | 60.8   | 53.2   | 41.8 |     |     |     |     |     |
| (824. RAD/SEC)     | 8000   | 40.7   | 44.1   | 46.7   | 51.2   | 53.7   | 57.3   | 59.2   | 58.6   | 57.3   | 51.3   | 37.8 |     |     |     |     |     |
| NO. OF BLADES 15   | 10000  | 39.3   | 40.9   | 43.9   | 49.0   | 51.8   | 54.1   | 57.3   | 56.3   | 56.1   | 48.6   | 34.6 |     |     |     |     |     |
| PAN TIP SPEED      | 12500  | 34.7   | 36.6   | 40.4   | 45.4   | 48.3   | 50.5   | 52.6   | 53.3   | 52.8   | 43.6   | 27.1 |     |     |     |     |     |
| 479. FT/SEC        | 16000  | 27.8   | 29.9   | 33.0   | 40.2   | 41.4   | 43.8   | 46.0   | 47.0   | 44.5   | 34.2   | 18.4 |     |     |     |     |     |
|                    | 20000  | 26.9   | 23.9   | 27.2   | 34.5   | 35.3   | 38.6   | 40.1   | 40.0   | 37.7   | 25.3   | 2.2  |     |     |     |     |     |
|                    | 25000  | 13.0   | 16.5   | 19.5   | 26.8   | 28.9   | 30.3   | 30.7   | 30.2   | 29.3   | 16.9   |      |     |     |     |     |     |
|                    | 31500  |        | 3.3    | 7.4    | 13.8   | 16.8   | 19.4   | 19.2   | 17.6   | 16.8   |        |      |     |     |     |     |     |
|                    | 40000  |        |        |        |        |        | 1.3    | 1.3    |        |        |        |      |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| OVERALL CALCULATED |        | 61.6   | 62.7   | 65.7   | 68.5   | 70.8   | 72.5   | 73.5   | 73.3   | 72.1   | 68.2   | 57.8 |     |     |     |     |     |
| PRDP               |        | 73.8   | 75.2   | 77.9   | 81.0   | 83.6   | 85.8   | 86.9   | 86.6   | 85.9   | 82.1   | 78.1 |     |     |     |     |     |

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|                     | FREQ. | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 158.   | 0.  | 0.   | 0.   | 0.   | 0.   | 0.   | PHL   |
|---------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|------|------|------|------|------|-------|
|                     |       | (0.92) | (1.04) | (1.24) | (1.41) | (1.58) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0. | (10. | (10. | (10. | (10. | (10. | )     |
|                     | 50    |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |      |       |
| RADIAL 17. FT.      | 63    |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |      |       |
|                     | 80    |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |      |       |
| VEHICLE 0-55        | 100   | 74.8   | 75.9   | 79.9   | 81.9   | 82.4   | 81.2   | 79.4   | 77.9   | 69.7   | 74.6   | 76.8   |     |      |      |      |      |      | 113.0 |
| CONFIC 24           | 125   | 64.0   | 67.9   | 71.4   | 67.9   | 72.9   | 67.0   | 68.4   | 69.9   | 72.0   | 72.6   | 74.9   |     |      |      |      |      |      | 104.8 |
| LOC 9CMENECTADY     | 160   | 64.0   | 66.4   | 66.1   | 66.4   | 67.1   | 66.0   | 68.4   | 70.2   | 71.7   | 74.1   | 75.1   |     |      |      |      |      |      | 103.8 |
| DATE 12/12/74       | 200   | 65.5   | 65.6   | 66.9   | 67.2   | 68.9   | 69.0   | 70.6   | 72.1   | 73.5   | 75.8   | 76.8   |     |      |      |      |      |      | 105.5 |
| RUN 37/1            | 250   | 68.8   | 68.8   | 69.9   | 69.9   | 70.9   | 71.6   | 72.6   | 72.6   | 73.2   | 75.1   | 74.8   |     |      |      |      |      |      | 106.1 |
| TABE                | 315   | 70.8   | 70.4   | 70.1   | 70.7   | 71.4   | 71.4   | 71.6   | 72.1   | 72.7   | 74.3   | 74.1   |     |      |      |      |      |      | 105.9 |
| TABE                | 400   | 68.3   | 68.6   | 68.4   | 68.7   | 69.1   | 70.4   | 70.6   | 71.1   | 72.0   | 73.6   | 74.1   |     |      |      |      |      |      | 104.8 |
| TABE 20.7 MC        | 500   | 67.1   | 67.4   | 68.9   | 67.7   | 68.6   | 69.9   | 71.9   | 73.2   | 73.5   | 74.6   | 73.4   |     |      |      |      |      |      | 105.2 |
| (100335. N/M2)      | 630   | 69.1   | 69.1   | 69.9   | 70.9   | 70.7   | 74.4   | 76.1   | 76.7   | 76.2   | 77.1   | 74.4   |     |      |      |      |      |      | 106.4 |
| TABE 44. DFG F      | 800   | 73.1   | 71.4   | 73.1   | 71.9   | 74.1   | 75.2   | 76.6   | 75.9   | 77.0   | 77.6   | 74.9   |     |      |      |      |      |      | 109.2 |
| (280. DFG K)        | 1000  | 68.1   | 68.1   | 67.9   | 69.7   | 71.6   | 73.4   | 74.8   | 75.9   | 77.2   | 77.8   | 72.6   |     |      |      |      |      |      | 107.9 |
| TABE 40. DFG F      | 1250  | 68.4   | 67.2   | 70.1   | 73.5   | 73.7   | 75.7   | 75.6   | 79.9   | 80.0   | 82.4   | 74.9   |     |      |      |      |      |      | 111.3 |
| (278. DFG K)        | 1600  | 67.2   | 67.2   | 69.6   | 71.3   | 73.9   | 74.7   | 74.8   | 76.4   | 76.5   | 77.9   | 72.4   |     |      |      |      |      |      | 108.4 |
| TABE 3.36 CM/M3     | 2000  | 64.4   | 65.9   | 67.1   | 68.8   | 71.0   | 72.2   | 73.3   | 73.9   | 75.0   | 74.1   | 69.4   |     |      |      |      |      |      | 105.9 |
| (100334. MC/M3)     | 2500  | 64.2   | 65.7   | 68.4   | 68.4   | 70.3   | 72.3   | 72.5   | 72.9   | 74.2   | 73.9   | 69.3   |     |      |      |      |      |      | 105.4 |
| NPA 5463. RPM       | 3150  | 64.7   | 65.0   | 65.8   | 68.4   | 70.3   | 72.5   | 73.8   | 75.8   | 77.2   | 76.6   | 70.6   |     |      |      |      |      |      | 107.2 |
| (573. RPM/SEC)      | 4000  | 66.6   | 67.7   | 68.8   | 71.4   | 73.5   | 75.7   | 74.4   | 81.2   | 81.9   | 83.3   | 76.0   |     |      |      |      |      |      | 112.2 |
| NPA 5574. RPM       | 5000  | 64.8   | 67.6   | 67.0   | 69.6   | 72.5   | 75.9   | 78.6   | 80.7   | 81.1   | 80.5   | 73.4   |     |      |      |      |      |      | 111.1 |
| (584. RPM/SEC)      | 6300  | 65.9   | 69.2   | 67.7   | 70.2   | 72.3   | 75.8   | 78.9   | 80.7   | 81.9   | 80.7   | 73.8   |     |      |      |      |      |      | 111.5 |
| NPA 8623. RPM       | 8000  | 65.0   | 70.9   | 67.5   | 71.2   | 71.5   | 75.5   | 78.2   | 80.2   | 82.2   | 81.2   | 73.6   |     |      |      |      |      |      | 111.6 |
| (824. RPM/SEC)      | 10000 | 64.8   | 72.2   | 68.3   | 71.3   | 71.3   | 74.4   | 77.9   | 80.4   | 82.3   | 78.2   | 71.6   |     |      |      |      |      |      | 111.3 |
| NO. OF BLADDS 15    | 12500 | 64.0   | 74.2   | 66.6   | 73.8   | 71.7   | 78.0   | 78.0   | 79.8   | 82.3   | 78.1   | 72.2   |     |      |      |      |      |      | 111.6 |
| PAN TIP SPEED 16000 | 16000 | 63.6   | 75.4   | 64.5   | 75.0   | 70.2   | 73.4   | 74.4   | 79.8   | 80.8   | 78.8   | 70.7   |     |      |      |      |      |      | 111.1 |
| 480. FT/SEC         | 20000 | 64.1   | 75.5   | 65.2   | 74.9   | 71.3   | 75.1   | 77.3   | 79.9   | 81.5   | 77.4   | 76.7   |     |      |      |      |      |      | 112.0 |
|                     | 25000 | 64.7   | 75.1   | 65.4   | 75.4   | 71.6   | 74.4   | 76.4   | 78.7   | 79.8   | 75.7   | 69.4   |     |      |      |      |      |      | 111.6 |
|                     | 31500 | 64.7   | 70.7   | 65.1   | 72.0   | 71.8   | 75.3   | 76.6   | 78.4   | 79.3   | 75.7   | 67.4   |     |      |      |      |      |      | 112.0 |
|                     | 40000 | 65.1   | 66.7   | 64.6   | 69.8   | 68.6   | 71.5   | 73.8   | 74.4   | 75.9   | 72.6   | 64.0   |     |      |      |      |      |      | 110.1 |
|                     | 50000 | 67.7   | 65.8   | 66.2   | 67.0   | 68.6   | 68.9   | 70.4   | 70.3   | 71.1   | 68.9   | 63.0   |     |      |      |      |      |      | 108.8 |
|                     | 63000 | 70.0   | 66.4   | 67.9   | 66.4   | 68.8   | 68.2   | 67.9   | 66.9   | 66.8   | 66.8   | 63.6   |     |      |      |      |      |      | 110.4 |
|                     | 80000 | 73.3   | 67.8   | 70.8   | 67.8   | 68.2   | 69.1   | 69.1   | 66.1   | 66.8   | 67.5   | 66.0   |     |      |      |      |      |      | 116.0 |
| OVERALL MEASURED    |       |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |      |       |
| OVERALL CALCULATED  |       | 83.1   | 85.4   | 84.7   | 87.2   | 87.5   | 88.8   | 88.4   | 91.8   | 93.0   | 92.2   | 87.8   |     |      |      |      |      |      | 124.9 |
|                     |       | 92.2   | 94.1   | 93.9   | 96.0   | 97.7   | 99.7   | 101.8  | 103.6  | 104.4  | 105.1  | 99.8   |     |      |      |      |      |      |       |

MODEL SHOWN PRESUPPOSE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

PROP. 53. 62. 71. 81. 91. 101. 111. 122. 133. 145. 156. 0. 0. 0. 0. 0.  
 (0.92)(1.08)(1.24)(1.41)(1.58)(1.74)(1.94)(2.13)(2.32)(2.52)(2.73)(0. (10. 110. 110. 110. 110. 110. 110.)

|  | 53    | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 156  | 0    | 0 | 0 | 0 | 0 |
|--|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|
| SIDELINE 200. FT.<br>( 80.96 F)                  | 100   | 51.1 | 53.2 | 57.6 | 60.2 | 62.8 | 59.4 | 56.7 | 49.6 | 45.3 | 46.0 | 46.5 |   |   |   |   |
| VEHICLE 8-55                                     | 125   | 44.3 | 45.1 | 40.2 | 46.1 | 51.2 | 44.1 | 45.1 | 46.0 | 47.4 | 45.9 | 44.6 |   |   |   |   |
| CONFIG 24  | 160   | 42.9 | 43.5 | 43.0 | 44.4 | 45.4 | 45.0 | 46.9 | 47.1 | 47.3 | 44.6 |      |   |   |   |   |
| LOC SCHEMERTADV                                  | 200   | 41.6 | 42.6 | 44.6 | 45.2 | 47.1 | 47.9 | 49.2 | 48.8 | 48.7 | 48.9 | 46.2 |   |   |   |   |
| DATE 12/12/74                                    | 250   | 44.7 | 45.5 | 47.5 | 47.0 | 40.0 | 49.6 | 50.1 | 49.2 | 48.3 | 48.0 | 44.0 |   |   |   |   |
| RUN 37/1   | 315   | 45.9 | 47.2 | 47.6 | 46.6 | 49.4 | 49.3 | 49.0 | 48.6 | 47.7 | 47.1 | 43.0 |   |   |   |   |
| TAPE   | 400   | 44.0 | 45.6 | 45.8 | 46.8 | 47.1 | 48.2 | 47.9 | 47.5 | 46.9 | 46.4 | 42.8 |   |   |   |   |
| BAR 99.7 MC<br>(00335. M/M2)                     | 500   | 42.7 | 44.0 | 44.2 | 45.4 | 46.5 | 47.4 | 49.0 | 49.4 | 48.2 | 47.0 | 41.8 |   |   |   |   |
| TAMB 44. DFC F                                   | 630   | 44.6 | 45.7 | 47.1 | 46.8 | 50.4 | 52.0 | 43.2 | 52.8 | 50.9 | 49.3 | 42.5 |   |   |   |   |
| (200. DFC K)                                     | 800   | 48.4 | 47.6 | 50.2 | 49.5 | 51.8 | 52.7 | 53.5 | 51.9 | 51.4 | 49.6 | 42.7 |   |   |   |   |
| TRCY 40. DFC F                                   | 1000  | 43.3 | 44.4 | 44.6 | 47.1 | 48.2 | 50.6 | 41.7 | 51.7 | 51.5 | 49.7 | 40.4 |   |   |   |   |
| (278. DFC K)                                     | 1250  | 43.4 | 43.2 | 47.0 | 50.8 | 51.1 | 52.9 | 55.3 | 55.6 | 54.1 | 43.9 | 42.0 |   |   |   |   |
| MACT 5.36 GM/M3<br>(1.00536 KC/M3)               | 1600  | 41.9 | 43.1 | 46.3 | 48.4 | 50.2 | 51.8 | 52.3 | 51.9 | 50.4 | 49.2 | 39.1 |   |   |   |   |
| NPA 5409. RPM<br>( 575. RPM/SEC)                 | 2000  | 40.3 | 41.6 | 43.6 | 45.7 | 48.0 | 49.1 | 49.6 | 49.2 | 48.6 | 45.1 | 35.6 |   |   |   |   |
| ( 584. RPM/SEC)                                  | 2500  | 39.5 | 41.2 | 42.6 | 45.1 | 47.1 | 48.0 | 48.7 | 47.9 | 47.6 | 44.5 | 35.1 |   |   |   |   |
| NPA 5409. RPM<br>( 575. RPM/SEC)                 | 3150  | 38.6 | 40.1 | 41.8 | 44.4 | 46.9 | 48.9 | 49.6 | 50.6 | 50.2 | 46.8 | 35.6 |   |   |   |   |
| ( 584. RPM/SEC)                                  | 4000  | 40.0 | 44.4 | 44.3 | 47.4 | 49.7 | 51.7 | 53.8 | 55.8 | 54.3 | 42.8 | 40.0 |   |   |   |   |
| NPA 5574. RPM<br>( 584. RPM/SEC)                 | 5000  | 37.9 | 42.1 | 42.3 | 45.4 | 48.4 | 51.4 | 53.7 | 54.6 | 53.2 | 49.5 | 36.8 |   |   |   |   |
| ( 584. RPM/SEC)                                  | 6300  | 38.1 | 42.8 | 42.2 | 45.3 | 47.8 | 50.7 | 53.2 | 53.9 | 52.9 | 48.5 | 35.3 |   |   |   |   |
| NPA 5623. RPM<br>( 524. RPM/SEC)                 | 8000  | 35.9 | 43.3 | 40.9 | 45.2 | 47.7 | 49.5 | 51.4 | 52.0 | 51.8 | 47.0 | 32.3 |   |   |   |   |
| ( 524. RPM/SEC)                                  | 10000 | 33.5 | 42.9 | 38.1 | 43.7 | 44.0 | 47.0 | 49.5 | 50.5 | 49.6 | 41.3 | 26.8 |   |   |   |   |
| NO. OF BLADES 15<br>PAN TIP SPEED<br>480. FT/SEC | 12500 | 39.1 | 42.3 | 36.1 | 44.0 | 42.2 | 45.2 | 47.2 | 47.2 | 46.7 | 37.3 | 21.3 |   |   |   |   |
|  | 16000 | 24.0 | 39.6 | 30.1 | 41.6 | 37.0 | 39.0 | 41.7 | 42.9 | 40.1 | 29.4 | 10.3 |   |   |   |   |
|  | 20000 | 19.5 | 34.0 | 25.8 | 36.7 | 33.4 | 36.8 | 37.5 | 37.3 | 34.1 | 21.6 |      |   |   |   |   |
|  | 25000 | 12.4 | 25.9 | 18.8 | 30.3 | 27.8 | 29.2 | 29.3 | 27.6 | 23.0 | 7.6  |      |   |   |   |   |
|  | 31500 |      | 10.1 | 8.0  | 16.8 | 17.3 | 19.0 | 18.6 | 15.9 | 8.5  |      |      |   |   |   |   |
|  | 40000 |      |      |      |      |      | 1.1  | 0.1  |      |      |      |      |   |   |   |   |
|  | 50000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
|  | 63000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
|  | 80000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
| OVERALL CALCULATED<br>PH88                       |       | 57.1 | 58.6 | 61.3 | 63.2 | 64.4 | 64.7 | 65.1 | 64.9 | 63.9 | 62.0 | 55.1 |   |   |   |   |
|  |       | 65.6 | 66.8 | 68.5 | 72.1 | 74.0 | 75.8 | 77.3 | 78.0 | 77.0 | 74.8 | 64.2 |   |   |   |   |

OF POOR QUALITY

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MODEL SOUND PRESSURE LEVELS (50. DEG. F., 70 PERCENT REL. HUM., DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.    | 0.   | 0.   | 0.   | 0.   | 0.   | PdL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|------|------|------|-------|
| FEET               | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.)  | (0.) | (0.) | (0.) | (0.) | (0.) |       |
| RADIAL 17. FT.     | 50     |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
| VEHICLE            | 100    | 76.0   | 76.4   | 74.6   | 71.9   | 71.1   | 70.2   | 72.1   | 71.9   | 73.0   | 77.1   | 79.9  |      |      |      |      |      | 108.6 |
| CONFIG             | 125    | 70.3   | 69.6   | 72.6   | 70.4   | 74.1   | 70.4   | 71.6   | 72.9   | 75.0   | 76.6   | 79.4  |      |      |      |      |      | 107.7 |
| LOC                | 160    | 69.3   | 68.6   | 68.9   | 69.4   | 71.1   | 69.9   | 72.1   | 73.4   | 75.5   | 78.1   | 79.6  |      |      |      |      |      | 107.5 |
| DATE               | 200    | 69.0   | 68.1   | 69.1   | 69.4   | 71.1   | 73.1   | 73.9   | 75.6   | 77.0   | 79.8   | 81.1  |      |      |      |      |      | 106.0 |
| RUN                | 250    | 72.3   | 71.6   | 73.1   | 73.1   | 73.9   | 74.4   | 75.6   | 75.9   | 77.0   | 78.3   | 79.8  |      |      |      |      |      | 109.5 |
| TAPE               | 315    | 73.3   | 73.1   | 73.9   | 74.2   | 74.9   | 75.2   | 75.3   | 75.6   | 76.2   | 78.3   | 79.3  |      |      |      |      |      | 109.7 |
| BAR                | 400    | 71.6   | 71.4   | 71.4   | 71.7   | 72.1   | 73.2   | 73.6   | 75.1   | 75.7   | 77.8   | 78.1  |      |      |      |      |      | 108.3 |
| (30335. N/M2)      | 500    | 69.8   | 69.4   | 69.4   | 70.4   | 71.6   | 73.2   | 74.9   | 75.9   | 76.7   | 78.1   | 77.4  |      |      |      |      |      | 108.3 |
| TAMP               | 630    | 71.9   | 71.1   | 72.4   | 73.4   | 74.9   | 76.9   | 74.9   | 79.4   | 79.2   | 79.8   | 77.9  |      |      |      |      |      | 111.1 |
| (44. DPG F)        | 800    | 74.9   | 73.4   | 74.1   | 74.4   | 74.4   | 77.7   | 78.3   | 79.1   | 79.2   | 79.3   | 77.6  |      |      |      |      |      | 111.4 |
| (1280. DPG K)      | 1000   | 70.1   | 70.4   | 70.4   | 72.2   | 74.1   | 75.7   | 77.6   | 78.9   | 80.0   | 79.4   | 75.8  |      |      |      |      |      | 110.4 |
| TNET               | 1250   | 68.9   | 67.9   | 69.6   | 71.7   | 73.4   | 75.0   | 77.6   | 78.4   | 79.5   | 80.4   | 75.8  |      |      |      |      |      | 110.2 |
| (40. DPG F)        | 1600   | 73.2   | 73.4   | 74.1   | 77.0   | 78.7   | 81.4   | 82.6   | 82.6   | 82.0   | 82.9   | 77.6  |      |      |      |      |      | 114.4 |
| (1278. DPG K)      | 2000   | 68.9   | 69.4   | 70.6   | 72.4   | 74.5   | 75.7   | 76.3   | 78.1   | 79.0   | 77.1   | 73.4  |      |      |      |      |      | 109.6 |
| (5.36 GM/3)        | 2500   | 67.4   | 68.0   | 68.6   | 70.9   | 73.0   | 74.0   | 73.8   | 74.4   | 74.5   | 73.1   | 71.3  |      |      |      |      |      | 106.7 |
| (.00536. KC/1)     | 3150   | 68.2   | 68.2   | 69.6   | 72.1   | 74.8   | 76.4   | 77.8   | 80.1   | 82.2   | 80.6   | 74.8  |      |      |      |      |      | 111.5 |
| (6275. RPM)        | 4000   | 68.9   | 70.2   | 71.5   | 74.1   | 76.2   | 78.4   | 81.2   | 83.5   | 84.7   | 81.6   | 76.5  |      |      |      |      |      | 113.9 |
| (.657. RAD/SEC)    | 5000   | 68.3   | 69.9   | 70.7   | 73.6   | 76.5   | 79.4   | 82.9   | 85.2   | 84.9   | 82.3   | 77.2  |      |      |      |      |      | 114.9 |
| (.657. RAD/SEC)    | 6300   | 68.9   | 70.5   | 70.9   | 74.0   | 76.8   | 79.4   | 82.4   | 84.5   | 86.6   | 82.7   | 76.8  |      |      |      |      |      | 115.2 |
| (.657. RAD/SEC)    | 8000   | 68.0   | 71.1   | 70.5   | 74.2   | 76.8   | 79.4   | 82.9   | 84.7   | 86.5   | 83.2   | 76.6  |      |      |      |      |      | 115.5 |
| (.924. RAD/SEC)    | 10000  | 66.6   | 73.5   | 69.3   | 73.8   | 76.3   | 78.4   | 81.7   | 83.9   | 85.6   | 80.7   | 74.8  |      |      |      |      |      | 114.6 |
| (.924. RAD/SEC)    | 12500  | 67.5   | 75.4   | 69.4   | 74.3   | 76.0   | 78.3   | 81.8   | 84.0   | 85.3   | 80.8   | 75.0  |      |      |      |      |      | 116.0 |
| (.924. RAD/SEC)    | 15000  | 68.1   | 74.6   | 68.7   | 74.5   | 75.9   | 77.5   | 79.9   | 83.3   | 84.3   | 78.6   | 73.7  |      |      |      |      |      | 114.0 |
| (.924. RAD/SEC)    | 20000  | 68.8   | 76.0   | 67.7   | 76.1   | 76.3   | 77.0   | 80.5   | 83.9   | 85.5   | 79.4   | 73.9  |      |      |      |      |      | 115.3 |
| (.924. RAD/SEC)    | 25000  | 68.9   | 77.1   | 67.9   | 74.9   | 74.9   | 77.9   | 80.4   | 83.0   | 83.5   | 78.4   | 72.7  |      |      |      |      |      | 115.0 |
| (.924. RAD/SEC)    | 31500  | 68.9   | 75.2   | 68.3   | 75.5   | 76.3   | 79.0   | 80.6   | 82.6   | 83.0   | 77.7   | 70.9  |      |      |      |      |      | 115.0 |
| (.924. RAD/SEC)    | 40000  | 69.3   | 71.5   | 68.1   | 71.1   | 72.8   | 75.5   | 77.6   | 79.9   | 80.1   | 75.6   | 66.3  |      |      |      |      |      | 113.9 |
| (.924. RAD/SEC)    | 50000  | 67.4   | 69.5   | 66.5   | 67.5   | 69.6   | 71.7   | 73.6   | 74.0   | 74.6   | 71.9   | 64.0  |      |      |      |      |      | 111.6 |
| (.924. RAD/SEC)    | 63000  | 69.7   | 69.2   | 67.9   | 67.1   | 67.0   | 68.9   | 69.4   | 68.6   | 68.6   | 67.0   | 64.1  |      |      |      |      |      | 111.3 |
| (.924. RAD/SEC)    | 80000  | 73.3   | 68.1   | 70.8   | 67.8   | 68.2   | 69.1   | 69.1   | 68.1   | 68.6   | 67.5   | 66.0  |      |      |      |      |      | 116.0 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |       |
| OVERALL CALCULATED |        | 84.2   | 87.1   | 85.8   | 87.9   | 88.3   | 91.4   | 83.6   | 95.5   | 96.5   | 94.1   | 91.4  |      |      |      |      |      | 127.5 |
| PdL                |        | 94.9   | 95.7   | 96.5   | 96.6   | 100.6  | 102.6  | 105.0  | 106.8  | 107.6  | 105.8  | 102.0 |      |      |      |      |      |       |

MODEL SOUND PRESSURE LEVELS (50. DEG. F., 70 PERCENT REL. HUM., DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                           | 53.    | 63.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.   | 0.   | 0.   | 0.  |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|-----|
| PR.2.                     | (0.92) | (1.08) | (1.24) | (1.41) | (1.59) | (1.77) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 0.)  | 0.)  | 0.)  | 0.) |
| SIDELINE 200. FT.         | 50     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |     |
| ( 80.9A M)                | 63     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |     |
| VEHICLE                   | 80     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |     |
| CONFIG 24                 | 100    | 52.4   | 53.7   | 52.6   | 50.2   | 49.5   | 49.4   | 49.9   | 49.8   | 49.5   | 49.8   | 49.5 | 49.8 | 49.9 | 49.1 |     |
| LOC SCHEMATIC ADV         | 125    | 46.5   | 46.8   | 50.5   | 48.6   | 52.5   | 48.8   | 49.3   | 49.8   | 50.4   | 49.9   | 49.1 |      |      |      |     |
| DATE 12/12/74             | 180    | 45.4   | 45.7   | 46.7   | 47.6   | 48.4   | 48.8   | 49.7   | 50.2   | 50.8   | 51.3   | 49.1 |      |      |      |     |
| RUN 37/2                  | 200    | 45.1   | 45.1   | 46.8   | 47.5   | 49.3   | 51.2   | 51.4   | 52.3   | 52.2   | 52.9   | 50.4 |      |      |      |     |
| TAPE                      | 250    | 48.2   | 48.5   | 50.7   | 51.1   | 52.0   | 52.6   | 53.1   | 52.5   | 52.1   | 51.2   | 49.0 |      |      |      |     |
| BAR 29.7 HG               | 315    | 49.1   | 50.0   | 51.4   | 52.1   | 52.9   | 53.8   | 52.7   | 52.1   | 51.2   | 51.1   | 48.3 |      |      |      |     |
| (100335. N/M2)            | 400    | 47.3   | 48.1   | 48.8   | 49.5   | 50.1   | 50.9   | 50.9   | 51.5   | 50.6   | 50.4   | 46.8 |      |      |      |     |
| TAMB 44. DFC F            | 500    | 45.4   | 46.0   | 46.7   | 48.2   | 48.5   | 50.9   | 52.0   | 52.2   | 51.5   | 50.5   | 45.8 |      |      |      |     |
| (1280. DFC K)             | 600    | 47.3   | 47.7   | 49.6   | 51.1   | 52.7   | 54.8   | 55.9   | 55.5   | 53.9   | 52.1   | 46.0 |      |      |      |     |
| TMET 40. DFC F            | 800    | 50.2   | 49.8   | 51.2   | 52.0   | 54.0   | 55.9   | 55.3   | 55.2   | 53.7   | 51.4   | 45.5 |      |      |      |     |
| (278. DFC M)              | 1000   | 45.3   | 46.8   | 47.3   | 49.6   | 51.7   | 53.8   | 54.4   | 54.7   | 54.3   | 51.4   | 43.4 |      |      |      |     |
| MACT 5.38 CM/M3           | 1250   | 43.9   | 44.0   | 46.5   | 49.0   | 51.8   | 52.9   | 54.3   | 54.1   | 53.6   | 51.9   | 42.8 |      |      |      |     |
| (.00519. KC/M3)           | 1800   | 47.9   | 49.3   | 50.8   | 54.1   | 56.9   | 58.5   | 59.1   | 59.1   | 55.9   | 54.2   | 44.3 |      |      |      |     |
| NPA 6275. RPM             | 2000   | 43.5   | 45.1   | 47.1   | 49.7   | 51.5   | 52.8   | 52.6   | 53.4   | 52.6   | 48.1   | 39.6 |      |      |      |     |
| ( 657. RAD/SEC)           | 2500   | 41.7   | 43.4   | 44.9   | 47.6   | 49.9   | 50.7   | 49.9   | 49.4   | 47.9   | 43.8   | 37.1 |      |      |      |     |
| NFX 638A. RPM             | 3150   | 43.1   | 43.4   | 45.8   | 48.6   | 51.4   | 52.0   | 53.6   | 54.8   | 55.2   | 50.8   | 39.9 |      |      |      |     |
| ( 667. RAD/SEC)           | 4000   | 43.3   | 44.9   | 47.1   | 50.1   | 52.4   | 54.4   | 56.6   | 57.7   | 57.1   | 51.0   | 40.5 |      |      |      |     |
| NPD 8623. RPM             | 5000   | 41.4   | 44.3   | 48.0   | 49.4   | 52.4   | 55.1   | 58.0   | 59.1   | 58.9   | 51.3   | 40.6 |      |      |      |     |
| ( 924. RAD/SEC)           | 6300   | 41.1   | 44.1   | 45.5   | 49.0   | 51.1   | 54.4   | 56.7   | 57.6   | 57.7   | 50.5   | 38.3 |      |      |      |     |
| NO. OF BLADES 15          | 8000   | 38.9   | 43.5   | 43.9   | 48.2   | 49.9   | 53.5   | 56.1   | 56.5   | 56.0   | 49.0   | 35.6 |      |      |      |     |
| PAN TIP SPEED 548. FT/SEC | 10000  | 39.5   | 44.1   | 41.1   | 46.2   | 48.8   | 51.8   | 53.3   | 54.0   | 53.8   | 43.8   | 29.8 |      |      |      |     |
| OVERALL CALCULATED        | 12500  | 33.6   | 43.8   | 38.8   | 44.5   | 48.4   | 48.4   | 51.0   | 51.4   | 49.7   | 40.0   | 24.0 |      |      |      |     |
| PND8                      | 16000  | 26.5   | 38.6   | 32.4   | 41.1   | 48.8   | 43.9   | 45.2   | 46.4   | 43.6   | 31.4   | 13.3 |      |      |      |     |
|                           | 20000  | 21.2   | 34.5   | 28.3   | 37.9   | 37.4   | 39.5   | 40.7   | 41.3   | 38.1   | 23.8   | 1.1  |      |      |      |     |
|                           | 25000  | 13.6   | 27.9   | 21.3   | 29.8   | 30.2   | 32.7   | 33.3   | 32.3   | 26.7   | 10.6   |      |      |      |      |     |
|                           | 31500  |        | 14.6   | 11.2   | 20.3   | 21.6   | 23.7   | 22.6   | 20.1   | 12.3   |        |      |      |      |      |     |
|                           | 40000  |        |        |        | 1.0    | 3.5    | 5.1    | 3.8    |        |        |        |      |      |      |      |     |
|                           | 50000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |     |
|                           | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |     |
|                           | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |     |
| OVERALL CALCULATED        |        | 58.6   | 60.7   | 61.8   | 63.2   | 65.1   | 66.5   | 67.8   | 68.1   | 67.2   | 64.1   | 59.0 |      |      |      |     |
| PND8                      |        | 68.7   | 78.8   | 72.2   | 74.8   | 74.9   | 78.7   | 80.4   | 81.1   | 80.2   | 75.6   | 66.9 |      |      |      |     |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 12 DAY 18 HR, 0.8

MODEL SOUND PRESSURE LEVELS (50. DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INFLT IN DEGREES (AND RADIANS)

|                     | 50.   | 60.  | 70.  | 80.  | 90.   | 100.  | 110.  | 120.  | 130.  | 140.  | 150.  | 0.    | 0. | 0. | 0. | 0. | 0. | PWL   |
|---------------------|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|-------|
|                     | 0.92  | 1.04 | 1.24 | 1.41 | 1.59  | 1.74  | 1.94  | 2.13  | 2.32  | 2.52  | 2.73  | 0.    | 0. | 0. | 0. | 0. | 0. |       |
| 50                  |       |      |      |      |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
| 63                  |       |      |      |      |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
| 80                  |       |      |      |      |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
| RADIAL 17. FT.      |       |      |      |      |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
| 100                 | 68.0  | 70.9 | 71.4 | 70.4 | 71.1  | 71.9  | 71.8  | 72.2  | 76.0  | 80.6  | 83.4  |       |    |    |    |    |    | 109.3 |
| VEHICLE R=55        | 125   | 75.3 | 77.6 | 78.1 | 75.9  | 74.6  | 74.4  | 74.9  | 77.2  | 78.2  | 80.6  | 83.6  |    |    |    |    |    | 112.0 |
| CONFIG 24           | 160   | 72.5 | 72.1 | 71.9 | 72.4  | 72.9  | 73.9  | 74.4  | 77.2  | 78.7  | 81.8  | 83.6  |    |    |    |    |    | 111.0 |
| LOC SCHWNECTADV     | 200   | 71.5 | 70.4 | 70.9 | 72.4  | 74.6  | 76.4  | 77.4  | 79.1  | 80.2  | 83.3  | 85.1  |    |    |    |    |    | 112.5 |
| DATE 12/12/74       | 250   | 75.5 | 74.4 | 76.1 | 76.4  | 77.1  | 77.8  | 79.1  | 79.4  | 80.5  | 82.6  | 83.8  |    |    |    |    |    | 113.1 |
| RUN 37/3            | 315   | 78.8 | 76.4 | 76.9 | 77.4  | 77.6  | 78.2  | 78.6  | 78.9  | 80.0  | 82.1  | 83.3  |    |    |    |    |    | 113.1 |
| TAPE                | 400   | 75.1 | 74.1 | 74.6 | 74.7  | 74.6  | 74.2  | 77.4  | 78.4  | 79.2  | 81.6  | 82.3  |    |    |    |    |    | 111.0 |
| BAR 29.7 HG         | 500   | 72.6 | 72.4 | 72.4 | 73.9  | 74.9  | 76.7  | 77.4  | 79.2  | 79.7  | 81.6  | 81.1  |    |    |    |    |    | 111.5 |
| (100335. N/M2)      | 630   | 74.4 | 73.9 | 74.9 | 75.9  | 77.9  | 79.4  | 81.1  | 82.2  | 82.2  | 82.8  | 81.6  |    |    |    |    |    | 113.9 |
| TAMB 44. DPG F      | 800   | 76.6 | 75.9 | 76.1 | 77.2  | 78.4  | 79.7  | 81.1  | 81.6  | 81.7  | 82.3  | 80.9  |    |    |    |    |    | 113.0 |
| (289. DPG K)        | 1000  | 71.1 | 73.4 | 73.4 | 75.2  | 74.6  | 78.7  | 79.6  | 81.1  | 82.5  | 81.8  | 79.3  |    |    |    |    |    | 113.0 |
| TMEY 40. DPG F      | 1250  | 72.2 | 70.9 | 72.1 | 74.7  | 74.2  | 77.7  | 79.3  | 80.6  | 82.0  | 82.4  | 79.1  |    |    |    |    |    | 112.6 |
| (278. DPG K)        | 1600  | 75.9 | 73.9 | 76.9 | 78.5  | 80.2  | 81.7  | 81.8  | 82.6  | 84.7  | 83.9  | 79.1  |    |    |    |    |    | 115.2 |
| MACT 5.36 CM/M3     | 2000  | 74.7 | 73.4 | 75.6 | 78.1  | 79.5  | 80.7  | 81.3  | 83.1  | 85.0  | 82.6  | 77.6  |    |    |    |    |    | 114.8 |
| (.00536. KC/M3)     | 2500  | 70.7 | 71.2 | 72.4 | 74.6  | 74.0  | 77.0  | 76.8  | 77.1  | 77.5  | 78.4  | 74.8  |    |    |    |    |    | 109.8 |
| NFA 7038. RPM       | 3150  | 70.9 | 71.2 | 72.6 | 74.6  | 77.3  | 79.7  | 80.5  | 82.8  | 84.5  | 80.9  | 76.6  |    |    |    |    |    | 113.8 |
| ( 739. RAD/SEC)     | 4000  | 72.6 | 73.4 | 75.3 | 78.1  | 80.7  | 82.7  | 84.9  | 87.0  | 88.7  | 84.6  | 79.7  |    |    |    |    |    | 117.7 |
| NFA 7162. RPM       | 5000  | 71.3 | 71.6 | 74.2 | 76.8  | 79.2  | 82.7  | 86.4  | 86.9  | 87.4  | 84.5  | 78.7  |    |    |    |    |    | 117.4 |
| ( 750. RAD/SEC)     | 6300  | 71.1 | 72.2 | 73.9 | 77.0  | 79.1  | 82.1  | 85.1  | 87.2  | 89.9  | 85.2  | 79.0  |    |    |    |    |    | 112.1 |
| NFA 8823. RPM       | 8000  | 71.3 | 72.6 | 74.7 | 77.7  | 79.5  | 82.4  | 85.9  | 88.5  | 90.2  | 85.7  | 79.6  |    |    |    |    |    | 116.9 |
| ( 924. RAD/SEC)     | 10000 | 69.6 | 70.7 | 73.3 | 77.0  | 79.3  | 81.4  | 85.2  | 87.7  | 89.3  | 83.2  | 77.5  |    |    |    |    |    | 119.1 |
| NO. OF BLADES 15    | 12500 | 70.0 | 70.4 | 72.9 | 76.3  | 79.2  | 81.9  | 84.8  | 86.4  | 88.8  | 83.1  | 77.5  |    |    |    |    |    | 117.7 |
| PAN TIP SPEED 16000 | 20000 | 67.8 | 68.4 | 71.0 | 74.7  | 77.4  | 80.5  | 83.6  | 86.3  | 87.3  | 81.9  | 76.7  |    |    |    |    |    | 116.9 |
| 616. FT/SEC         | 25000 | 68.2 | 68.3 | 71.6 | 77.9  | 78.9  | 80.9  | 83.7  | 86.2  | 87.5  | 81.7  | 75.9  |    |    |    |    |    | 112.3 |
|                     | 31500 | 66.9 | 68.4 | 72.3 | 76.7  | 80.1  | 82.4  | 84.3  | 85.6  | 86.5  | 80.9  | 73.9  |    |    |    |    |    | 119.1 |
|                     | 40000 | 65.8 | 68.0 | 69.8 | 75.3  | 78.8  | 79.9  | 81.1  | 82.9  | 83.1  | 78.8  | 68.5  |    |    |    |    |    | 117.3 |
|                     | 50000 | 67.2 | 65.3 | 68.2 | 72.5  | 75.6  | 74.9  | 77.4  | 77.3  | 78.1  | 74.9  | 64.8  |    |    |    |    |    | 114.6 |
|                     | 63000 | 69.0 | 64.9 | 67.9 | 72.4  | 75.5  | 69.7  | 71.1  | 71.4  | 71.6  | 69.0  | 63.6  |    |    |    |    |    | 112.8 |
|                     | 80000 | 73.3 | 67.6 | 70.8 | 69.8  | 68.2  | 69.1  | 69.1  | 68.1  | 67.3  | 67.5  | 66.0  |    |    |    |    |    | 116.2 |
| OVERALL MEASURED    |       |      |      |      |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
| OVERALL CALCULATED  |       | 67.4 | 67.2 | 68.4 | 68.8  | 69.3  | 64.4  | 66.6  | 68.4  | 69.9  | 66.9  | 64.8  |    |    |    |    |    | 130.4 |
| PNOB                |       | 98.1 | 98.3 | 99.9 | 102.1 | 104.1 | 106.0 | 106.1 | 109.7 | 111.2 | 108.8 | 106.2 |    |    |    |    |    |       |

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|                    | PRPO. | 53.     | 62.     | 71.     | 81.     | 91.     | 101.    | 111.    | 122.   | 133.   | 145.   | 156.   | 0.  | 0. | 0. | 0. | 0. | 0.  |
|--------------------|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|-----|----|----|----|----|-----|
|                    |       | (10.92) | (11.08) | (11.24) | (11.41) | (11.58) | (11.74) | (11.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0. | 0. | 0. | 0. | 0. | 0.) |
| SIDELINE 200. FT.  | 50    |         |         |         |         |         |         |         |        |        |        |        |     |    |    |    |    |     |
| (60.06 M)          | 63    |         |         |         |         |         |         |         |        |        |        |        |     |    |    |    |    |     |
| VEHICLE            | 100   | 44.4    | 48.2    | 49.3    | 49.7    | 49.5    | 49.4    | 49.4    | 49.1   | 51.5   | 54.0   | 53.3   |     |    |    |    |    |     |
| CONFIG             | 125   | 51.5    | 54.8    | 56.0    | 54.1    | 54.0    | 52.4    | 52.6    | 54.0   | 53.7   | 44.2   | 53.4   |     |    |    |    |    |     |
| LOC                | 160   | 48.7    | 49.2    | 49.7    | 50.6    | 51.1    | 51.3    | 53.0    | 53.9   | 54.1   | 45.0   | 53.1   |     |    |    |    |    |     |
| DATE               | 200   | 47.6    | 47.4    | 48.6    | 50.5    | 52.8    | 54.4    | 54.9    | 55.8   | 55.5   | 46.4   | 54.4   |     |    |    |    |    |     |
| RUN                | 250   | 51.5    | 51.3    | 53.7    | 54.4    | 54.2    | 55.6    | 56.6    | 56.0   | 55.6   | 45.5   | 53.0   |     |    |    |    |    |     |
| TAPE               | 315   | 52.6    | 53.2    | 54.4    | 55.3    | 54.7    | 54.8    | 56.0    | 55.4   | 55.0   | 44.8   | 52.3   |     |    |    |    |    |     |
| WAV                | 400   | 50.9    | 50.9    | 52.1    | 52.5    | 53.6    | 53.9    | 54.6    | 54.8   | 54.1   | 44.2   | 51.0   |     |    |    |    |    |     |
| 100335. N/M21      | 500   | 48.2    | 49.0    | 49.7    | 51.7    | 52.7    | 54.4    | 54.5    | 55.4   | 54.5   | 44.0   | 49.5   |     |    |    |    |    |     |
| YAMB               | 630   | 49.6    | 50.4    | 52.1    | 53.6    | 54.7    | 57.0    | 56.2    | 54.3   | 56.9   | 45.1   | 49.8   |     |    |    |    |    |     |
| (200. DPG K)       | 800   | 51.9    | 52.3    | 53.2    | 54.7    | 54.0    | 57.3    | 58.0    | 57.7   | 56.2   | 44.4   | 48.7   |     |    |    |    |    |     |
| YMET               | 1000  | 48.3    | 49.6    | 50.3    | 52.6    | 54.2    | 56.7    | 56.4    | 57.4   | 56.8   | 43.7   | 46.9   |     |    |    |    |    |     |
| (278. DPG K)       | 1250  | 47.2    | 47.0    | 49.0    | 52.0    | 53.6    | 54.9    | 56.0    | 56.3   | 56.1   | 43.9   | 46.3   |     |    |    |    |    |     |
| WACT               | 1600  | 50.7    | 49.8    | 53.5    | 55.6    | 57.4    | 58.8    | 58.3    | 58.1   | 58.6   | 45.2   | 45.8   |     |    |    |    |    |     |
| (.00536 KC/M3)     | 2000  | 49.2    | 49.1    | 52.1    | 55.0    | 56.5    | 57.6    | 57.6    | 58.4   | 58.6   | 43.6   | 43.9   |     |    |    |    |    |     |
| WPA                | 2500  | 45.8    | 46.7    | 48.6    | 51.3    | 52.9    | 53.7    | 52.9    | 52.2   | 50.9   | 47.0   | 40.6   |     |    |    |    |    |     |
| (739. RAD/SEC)     | 3150  | 44.8    | 46.4    | 48.6    | 51.1    | 52.9    | 56.1    | 56.3    | 57.6   | 57.5   | 41.0   | 41.6   |     |    |    |    |    |     |
| WPK                | 4000  | 44.0    | 46.1    | 50.8    | 54.1    | 54.9    | 58.7    | 60.3    | 61.2   | 61.1   | 44.0   | 43.6   |     |    |    |    |    |     |
| (750. RAD/SEC)     | 5000  | 44.4    | 46.1    | 49.5    | 52.6    | 55.1    | 58.4    | 61.5    | 60.9   | 59.4   | 43.5   | 42.1   |     |    |    |    |    |     |
| WPD                | 6300  | 43.4    | 45.6    | 48.5    | 52.0    | 54.3    | 57.2    | 59.5    | 60.4   | 60.9   | 43.0   | 40.6   |     |    |    |    |    |     |
| (924. RAD/SEC)     | 8000  | 42.1    | 45.0    | 48.1    | 51.7    | 53.7    | 56.7    | 59.1    | 60.3   | 59.8   | 41.5   | 38.3   |     |    |    |    |    |     |
| NO. OF BLADES      | 10000 | 38.5    | 41.4    | 45.1    | 49.5    | 52.8    | 54.8    | 56.8    | 57.7   | 58.6   | 40.3   | 32.3   |     |    |    |    |    |     |
| PAN TIP SPEED      | 12500 | 34.1    | 38.6    | 42.3    | 46.5    | 49.7    | 51.7    | 54.0    | 54.2   | 53.2   | 42.3   | 26.5   |     |    |    |    |    |     |
| 616. FT/SEC        | 16000 | 29.0    | 32.4    | 36.6    | 41.3    | 44.3    | 46.9    | 48.9    | 49.4   | 48.6   | 34.6   | 18.3   |     |    |    |    |    |     |
|                    | 20000 | 23.2    | 26.8    | 32.1    | 36.4    | 40.9    | 43.8    | 44.5    | 44.3   | 40.9   | 26.1   | 3.9    |     |    |    |    |    |     |
|                    | 25000 | 14.9    | 19.1    | 25.1    | 32.6    | 34.2    | 35.7    | 36.6    | 35.6   | 30.7   | 13.8   |        |     |    |    |    |    |     |
|                    | 31500 | 8.9     | 7.8     | 15.2    | 23.5    | 24.5    | 27.4    | 26.5    | 23.1   | 15.6   |        |        |     |    |    |    |    |     |
|                    | 40000 |         |         |         | 5.2     | 7.5     | 8.8     | 7.3     | 2.8    |        |        |        |     |    |    |    |    |     |
|                    | 50000 |         |         |         |         |         |         |         |        |        |        |        |     |    |    |    |    |     |
|                    | 63000 |         |         |         |         |         |         |         |        |        |        |        |     |    |    |    |    |     |
|                    | 80000 |         |         |         |         |         |         |         |        |        |        |        |     |    |    |    |    |     |
| OVERALL CALCULATED |       | 61.9    | 62.9    | 64.6    | 66.2    | 67.9    | 69.3    | 70.5    | 70.9   | 70.8   | 67.1   | 62.6   |     |    |    |    |    |     |
| PRDS               |       | 71.9    | 73.3    | 75.7    | 78.3    | 80.5    | 82.2    | 83.5    | 84.1   | 83.8   | 78.8   | 76.2   |     |    |    |    |    |     |

|                    | FREQ. | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.  | 0.  | 0.  | 0.  | 0.  | 0.   | PdL   |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|------|-------|
|                    |       | (0.02) | (1.00) | (1.24) | (1.41) | (1.54) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0. | (0. | (0. | (0. | (0. | (0.) |       |
| 50                 |       |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |       |
| 63                 |       |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |       |
| RADIAL 17. FT.     | 60    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |       |
| VEHICLE (S. M)     | 100   | 69.5   | 71.1   | 72.6   | 72.9   | 73.4   | 74.9   | 74.1   | 75.2   | 79.0   | 84.1   | 87.6   |     |     |     |     |     |      | 112.7 |
| CONFIG R=55        | 125   | 78.8   | 76.4   | 76.1   | 75.7   | 74.9   | 77.4   | 78.4   | 79.9   | 81.0   | 83.8   | 86.4   |     |     |     |     |     |      | 114.0 |
| LOC SCHEMERTADY    | 200   | 74.5   | 73.4   | 74.4   | 75.7   | 77.6   | 79.6   | 80.4   | 82.1   | 83.5   | 86.6   | 88.3   |     |     |     |     |     |      | 119.7 |
| DATE 12/12/74      | 250   | 70.9   | 79.4   | 81.1   | 81.9   | 82.9   | 83.9   | 84.6   | 86.1   | 86.2   | 88.6   | 88.6   |     |     |     |     |     |      | 118.7 |
| RUN 37/4           | 315   | 79.8   | 79.4   | 79.6   | 79.0   | 81.1   | 81.2   | 81.3   | 82.1   | 83.5   | 86.1   | 86.8   |     |     |     |     |     |      | 116.4 |
| TAPE               | 400   | 77.8   | 77.6   | 77.4   | 78.9   | 78.6   | 79.7   | 79.9   | 81.4   | 82.5   | 85.3   | 85.8   |     |     |     |     |     |      | 119.1 |
| BAR 29.7 MC        | 500   | 75.8   | 75.4   | 75.9   | 76.7   | 77.9   | 79.4   | 81.1   | 82.2   | 83.5   | 84.3   | 84.9   |     |     |     |     |     |      | 114.8 |
| (00335, 4/42)      | 630   | 74.9   | 76.4   | 77.6   | 78.7   | 80.9   | 82.4   | 84.1   | 84.4   | 84.5   | 85.3   | 84.8   |     |     |     |     |     |      | 118.5 |
| YAMB 44. DFC F     | 800   | 79.1   | 78.1   | 79.1   | 79.4   | 81.4   | 82.4   | 83.6   | 84.1   | 84.7   | 84.8   | 84.1   |     |     |     |     |     |      | 116.6 |
| 1280. DFC #1       | 1000  | 74.6   | 76.1   | 74.4   | 77.7   | 79.6   | 81.7   | 82.6   | 83.4   | 84.5   | 83.6   | 82.8   |     |     |     |     |     |      | 115.4 |
| THET 40. DFC F     | 1250  | 74.4   | 74.2   | 75.4   | 77.7   | 79.2   | 81.2   | 82.3   | 83.4   | 84.5   | 83.9   | 82.1   |     |     |     |     |     |      | 115.2 |
| (274. DFC #1)      | 1400  | 74.4   | 75.2   | 74.9   | 78.8   | 80.7   | 82.0   | 82.1   | 82.6   | 84.0   | 82.6   | 80.9   |     |     |     |     |     |      | 119.1 |
| MACT 5.35 CM/M3    | 2000  | 74.7   | 77.2   | 74.6   | 80.3   | 82.0   | 84.2   | 85.6   | 87.1   | 88.2   | 83.1   | 81.6   |     |     |     |     |     |      | 118.1 |
| (.00534 CM/M3)     | 2500  | 73.7   | 74.2   | 75.1   | 77.9   | 79.3   | 81.3   | 82.0   | 83.6   | 85.5   | 79.4   | 78.6   |     |     |     |     |     |      | 113.0 |
| NFA 7423. RPM      | 3150  | 74.4   | 73.5   | 74.8   | 76.9   | 78.9   | 81.0   | 81.3   | 82.8   | 83.5   | 81.9   | 77.6   |     |     |     |     |     |      | 114.2 |
| ( 819. RAD/SEC)    | 4000  | 74.9   | 76.9   | 74.8   | 82.1   | 84.2   | 84.9   | 84.7   | 87.2   | 92.7   | 88.8   | 83.7   |     |     |     |     |     |      | 121.4 |
| NPK 7930. RPM      | 5630  | 73.8   | 74.4   | 76.2   | 79.3   | 82.2   | 84.9   | 87.9   | 89.4   | 89.9   | 86.0   | 80.9   |     |     |     |     |     |      | 119.6 |
| ( 831. RAD/SEC)    | 6300  | 74.1   | 75.2   | 77.2   | 79.7   | 82.6   | 84.6   | 84.9   | 91.2   | 92.6   | 86.7   | 81.0   |     |     |     |     |     |      | 121.4 |
| NPB 8823. RPM      | 8030  | 74.0   | 75.4   | 77.2   | 80.4   | 82.8   | 84.8   | 84.7   | 91.5   | 93.9   | 87.4   | 81.8   |     |     |     |     |     |      | 121.8 |
| ( 924. RAD/SEC)    | 10000 | 72.6   | 73.7   | 76.5   | 80.5   | 82.1   | 84.4   | 84.4   | 90.9   | 91.8   | 85.0   | 79.8   |     |     |     |     |     |      | 121.0 |
| NO. OF BLADES 15   | 12500 | 72.8   | 73.4   | 74.4   | 80.1   | 83.0   | 84.8   | 89.5   | 91.3   | 91.5   | 85.1   | 80.2   |     |     |     |     |     |      | 121.4 |
| PAN TIP SPEECH     | 16000 | 76.6   | 71.4   | 74.5   | 77.7   | 80.9   | 83.7   | 86.6   | 90.1   | 89.8   | 83.6   | 79.2   |     |     |     |     |     |      | 120.0 |
| 683. FT/SEC        | 20000 | 74.3   | 72.0   | 75.0   | 78.6   | 82.0   | 84.9   | 87.8   | 91.2   | 91.2   | 84.8   | 79.2   |     |     |     |     |     |      | 121.6 |
|                    | 25000 | 74.9   | 72.1   | 75.6   | 79.9   | 82.4   | 84.9   | 87.9   | 90.7   | 91.5   | 84.9   | 79.7   |     |     |     |     |     |      | 122.3 |
|                    | 31500 | 69.4   | 71.9   | 76.1   | 81.2   | 83.1   | 85.4   | 87.6   | 89.6   | 89.8   | 83.9   | 77.2   |     |     |     |     |     |      | 122.4 |
|                    | 40000 | 64.1   | 69.2   | 73.1   | 79.1   | 78.6   | 82.7   | 84.8   | 88.7   | 88.4   | 81.3   | 71.3   |     |     |     |     |     |      | 126.8 |
|                    | 50000 | 67.9   | 66.5   | 70.5   | 77.3   | 74.6   | 78.4   | 81.1   | 80.8   | 81.4   | 77.2   | 67.0   |     |     |     |     |     |      | 118.2 |
|                    | 63000 | 69.2   | 65.9   | 68.4   | 74.6   | 80.8   | 72.2   | 74.4   | 74.1   | 74.6   | 71.0   | 64.1   |     |     |     |     |     |      | 115.2 |
|                    | 80000 | 73.3   | 68.8   | 70.8   | 69.5   | 68.3   | 69.1   | 69.3   | 68.6   | 68.8   | 67.5   | 66.0   |     |     |     |     |     |      | 116.5 |
| OVERALL MEASURED   |       |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |       |
| OVERALL CALCULATED |       | 91.0   | 89.8   | 91.3   | 83.8   | 84.5   | 87.6   | 88.9   | 101.9  | 102.8  | 89.4   | 98.2   |     |     |     |     |     |      | 133.5 |
| PdL                |       | 101.3  | 101.4  | 102.6  | 105.3  | 107.3  | 109.1  | 111.1  | 112.7  | 114.3  | 111.4  | 108.5  |     |     |     |     |     |      |       |

MODEL SOUND PRESSURE LEVELS (50. DEG. F., 70 PERCENT REL. HUM., DAY)  
 ANGLES FROM INFLT IN DEGREES (AND RADIANS)

MODEL SPRING PRESSURE LEVELS (EG. F. 70 PERCENT REL. MOM. DAY)

ANGLE FROM INFLY IN DEGREE (AND RADIANS)

|                       | 53.    | 67.    | 71.    | 81.    | 91.    | 101.   | 111.   | 123.   | 133.   | 145.   | 156.   | 0.   | 0.  | 0.  | 0.  | 0.  | 0.   |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|------|
| PRG.                  | (0.92) | (1.09) | (1.24) | (1.41) | (1.46) | (1.74) | (1.84) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | (0. | (0. | (0. | (0. | (0.) |
| SIDELINE 200. FT.     | 50     | 63     | 80     |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| (AD. 00 M)            | 100    | 44.9   | 48.4   | 50.6   | 49.4   | 41.8   | 52.4   | 41.9   | 52.1   | 54.5   | 47.5   | 57.5 |     |     |     |     |      |
| VEHICLE 0-55          | 125    | 53.0   | 53.6   | 54.0   | 43.9   | 47.2   | 55.4   | 46.1   | 56.8   | 56.4   | 47.2   | 56.1 |     |     |     |     |      |
| COMPIC 24             | 160    | 51.2   | 52.2   | 52.8   | 43.8   | 44.1   | 54.0   | 55.7   | 56.7   | 57.3   | 48.0   | 56.8 |     |     |     |     |      |
| LOC SC-ENERG ADV      | 200    | 50.6   | 50.4   | 52.1   | 43.7   | 44.8   | 57.7   | 57.9   | 58.8   | 58.7   | 49.8   | 57.7 |     |     |     |     |      |
| DATE 12/12/74         | 250    | 55.7   | 56.3   | 58.7   | 49.9   | 41.0   | 61.4   | 42.1   | 62.7   | 61.3   | 41.5   | 57.7 |     |     |     |     |      |
| RUN 37/4              | 315    | 55.6   | 56.2   | 57.1   | 47.8   | 48.2   | 59.8   | 58.7   | 58.8   | 58.5   | 48.8   | 55.8 |     |     |     |     |      |
| TAPE                  | 400    | 53.5   | 54.4   | 54.8   | 48.9   | 44.6   | 57.4   | 57.1   | 57.8   | 57.4   | 47.9   | 54.5 |     |     |     |     |      |
| BAR 50.7 MC           | 500    | 51.4   | 52.0   | 53.2   | 44.4   | 44.7   | 57.1   | 58.3   | 58.4   | 58.2   | 46.8   | 53.3 |     |     |     |     |      |
| (100335. M/M?)        | 630    | 52.3   | 52.9   | 54.9   | 46.3   | 44.7   | 60.0   | 61.2   | 60.5   | 59.1   | 47.0   | 52.8 |     |     |     |     |      |
| TANG 44. DFC F        | 800    | 54.4   | 54.5   | 54.2   | 47.0   | 48.0   | 59.8   | 61.5   | 60.2   | 59.2   | 46.9   | 52.0 |     |     |     |     |      |
| (200. DFC M)          | 1000   | 51.8   | 52.4   | 53.3   | 45.1   | 47.2   | 59.8   | 59.4   | 59.2   | 58.8   | 45.4   | 52.4 |     |     |     |     |      |
| TNET 44. DFC F        | 1250   | 50.4   | 50.2   | 52.2   | 45.8   | 44.6   | 57.4   | 58.0   | 59.1   | 58.6   | 45.4   | 49.3 |     |     |     |     |      |
| (274. DFC M)          | 1407   | 50.2   | 51.1   | 53.5   | 45.9   | 47.8   | 59.8   | 54.6   | 58.1   | 57.9   | 43.9   | 47.6 |     |     |     |     |      |
| WACT 4.56 CM/M3       | 2000   | 51.2   | 52.9   | 55.1   | 47.2   | 48.0   | 61.1   | 41.9   | 62.4   | 61.9   | 44.1   | 47.9 |     |     |     |     |      |
| (1.00538. CM/M3)      | 2500   | 48.8   | 49.7   | 51.4   | 44.6   | 44.1   | 58.9   | 54.2   | 55.7   | 53.9   | 40.0   | 44.4 |     |     |     |     |      |
| WPA 7033. RPM         | 3150   | 47.4   | 48.6   | 50.8   | 43.3   | 44.8   | 57.4   | 57.1   | 57.8   | 58.5   | 41.0   | 42.8 |     |     |     |     |      |
| (116. RAD/SEC)        | 4000   | 50.3   | 51.8   | 54.3   | 48.1   | 48.4   | 61.8   | 44.1   | 64.5   | 65.1   | 48.8   | 47.8 |     |     |     |     |      |
| WPA 7030. RPM         | 5000   | 48.9   | 48.8   | 51.5   | 45.1   | 48.1   | 60.6   | 63.0   | 63.4   | 61.9   | 45.0   | 44.3 |     |     |     |     |      |
| (131. RAD/SEC)        | 6300   | 44.4   | 48.8   | 51.7   | 44.8   | 47.8   | 61.7   | 63.2   | 64.4   | 63.7   | 44.5   | 42.8 |     |     |     |     |      |
| WPA 8033. RPM         | 8000   | 44.9   | 47.6   | 50.6   | 44.4   | 44.8   | 60.0   | 61.9   | 63.3   | 63.6   | 43.2   | 40.8 |     |     |     |     |      |
| (162. RAD/SEC)        | 10000  | 41.5   | 44.4   | 48.3   | 43.0   | 44.7   | 57.8   | 60.0   | 61.0   | 59.3   | 48.1   | 34.6 |     |     |     |     |      |
| NO. OF PLACES 1g      | 12500  | 38.9   | 41.6   | 45.8   | 40.3   | 43.4   | 55.2   | 58.7   | 58.7   | 59.8   | 44.3   | 29.3 |     |     |     |     |      |
| PAN TIP SPEED         | 19000  | 32.0   | 35.4   | 40.1   | 44.3   | 47.8   | 50.2   | 51.8   | 53.2   | 49.1   | 38.4   | 18.8 |     |     |     |     |      |
| 663. FT/SEC           | 20000  | 25.7   | 30.5   | 35.6   | 40.4   | 44.1   | 46.5   | 48.0   | 48.8   | 43.9   | 28.9   | 8.4  |     |     |     |     |      |
|                       | 25000  | 17.6   | 22.9   | 29.1   | 34.8   | 37.7   | 39.7   | 40.8   | 40.1   | 34.7   | 17.1   |      |     |     |     |     |      |
|                       | 31500  | 3.4    | 11.3   | 18.8   | 26.0   | 28.5   | 30.2   | 29.8   | 27.1   | 19.0   |        |      |     |     |     |     |      |
|                       | 40000  |        |        | 8.3    | 9.0    | 10.3   | 12.3   | 11.1   | 8.5    |        |        |      |     |     |     |     |      |
|                       | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
|                       | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
|                       | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| OVERALL CAL. CUM. AVE |        | 64.6   | 65.4   | 67.2   | 68.6   | 71.8   | 72.4   | 73.5   | 74.8   | 73.4   | 78.8   | 68.3 |     |     |     |     |      |
| P400                  |        | 75.1   | 76.3   | 76.8   | 81.8   | 83.7   | 85.2   | 86.7   | 87.1   | 88.9   | 81.4   | 73.7 |     |     |     |     |      |



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MODEL SOUND PRESSURE LEVELS (50. DEG. F., 70 PERCENT REL. HUM., DAVIS)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | 83.    | 82.    | 71.    | 61.    | 51.    | 41.    | 31.    | 21.    | 11.    | 0.     | 0.     | 0.     | 0.      | 0.     | 0.     | 0.      | 0.     | 0.      |       |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|--------|---------|-------|
| FREQ.               | (0.02) | (1.00) | (1.24) | (1.61) | (2.00) | (2.50) | (3.14) | (3.93) | (4.91) | (6.28) | (8.00) | (10.0) | (12.57) | (16.0) | (20.0) | (25.13) | (32.0) | (40.84) |       |
| RADIAL 17. FT.      | 100    | 72.5   | 72.0   | 73.0   | 73.1   | 74.9   | 75.4   | 75.1   | 75.0   | 79.1   | 83.7   | 87.0   |         |        |        |         |        |         | 113.0 |
| VEHICLE 0-95        | 125    | 77.3   | 76.3   | 74.4   | 75.4   | 74.4   | 74.1   | 74.1   | 80.0   | 81.0   | 83.5   | 86.8   |         |        |        |         |        |         | 114.3 |
| CONFIG 24           | 100    | 75.0   | 75.0   | 74.0   | 76.1   | 74.4   | 74.4   | 74.0   | 80.1   | 82.1   | 84.7   | 87.1   |         |        |        |         |        |         | 114.3 |
| LOC SCMPNCTADV      | 200    | 76.5   | 74.0   | 74.0   | 75.0   | 74.1   | 74.4   | 74.3   | 82.1   | 83.0   | 86.4   | 86.0   |         |        |        |         |        |         | 115.0 |
| DATE 12/12/74       | 250    | 80.7   | 79.3   | 81.3   | 81.0   | 83.1   | 84.1   | 84.0   | 86.1   | 86.0   | 87.0   | 89.0   |         |        |        |         |        |         | 116.0 |
| RUN 37/5            | 315    | 80.0   | 79.1   | 79.0   | 80.4   | 80.6   | 81.4   | 81.0   | 82.1   | 83.4   | 84.9   | 86.0   |         |        |        |         |        |         | 116.2 |
| TYPE                | 400    | 74.3   | 74.1   | 77.0   | 76.4   | 74.9   | 74.0   | 74.3   | 81.0   | 82.0   | 84.2   | 85.0   |         |        |        |         |        |         | 115.0 |
| DAS 20.7 MC         | 500    | 74.0   | 76.1   | 76.0   | 77.1   | 74.1   | 79.4   | 81.1   | 82.1   | 82.9   | 84.0   | 84.8   |         |        |        |         |        |         | 114.7 |
| 100335 4/21         | 430    | 77.0   | 77.3   | 74.4   | 79.1   | 80.9   | 82.9   | 83.8   | 84.4   | 84.6   | 84.7   | 84.0   |         |        |        |         |        |         | 115.9 |
| TAP 46. DFC F       | 400    | 82.0   | 79.4   | 81.0   | 80.0   | 82.0   | 83.2   | 84.0   | 85.1   | 85.1   | 84.7   | 85.1   |         |        |        |         |        |         | 117.0 |
| 1200. DFC R1        | 1200   | 77.9   | 77.3   | 77.0   | 78.1   | 81.1   | 81.2   | 82.0   | 83.3   | 84.6   | 83.7   | 83.1   |         |        |        |         |        |         | 115.7 |
| TRCT 40. DFC F      | 1250   | 74.0   | 74.0   | 75.0   | 77.7   | 74.2   | 80.0   | 82.0   | 83.1   | 84.4   | 83.9   | 82.3   |         |        |        |         |        |         | 115.2 |
| 1270. DFC R1        | 1400   | 74.0   | 75.0   | 77.0   | 78.7   | 80.2   | 81.7   | 82.0   | 83.1   | 83.0   | 82.3   | 81.1   |         |        |        |         |        |         | 115.2 |
| WACT 5.36 C4/3      | 2000   | 77.1   | 76.4   | 76.0   | 80.0   | 81.2   | 84.4   | 85.3   | 87.0   | 86.4   | 83.0   | 81.0   |         |        |        |         |        |         | 115.3 |
| 1.00530 C4/3        | 2500   | 74.1   | 74.4   | 75.0   | 77.4   | 74.2   | 80.0   | 80.0   | 80.6   | 80.4   | 79.3   | 78.0   |         |        |        |         |        |         | 113.0 |
| NFA 7022. 0P        | 3150   | 74.0   | 73.4   | 74.0   | 77.1   | 74.5   | 83.7   | 81.5   | 83.0   | 83.0   | 82.3   | 74.0   |         |        |        |         |        |         | 114.3 |
| 1.019. 040/SEC      | 4000   | 76.0   | 77.1   | 79.0   | 82.1   | 84.0   | 85.7   | 86.4   | 86.5   | 82.0   | 84.2   | 83.2   |         |        |        |         |        |         | 121.5 |
| NFA 7030. 0P        | 5000   | 74.5   | 74.0   | 76.7   | 79.3   | 82.2   | 83.4   | 84.0   | 84.4   | 84.0   | 83.7   | 80.0   |         |        |        |         |        |         | 116.0 |
| 1.031. 040/SEC      | 6300   | 74.0   | 75.4   | 77.0   | 79.0   | 81.1   | 84.1   | 84.0   | 84.0   | 83.0   | 80.1   | 81.5   |         |        |        |         |        |         | 121.4 |
| NFA 7023. 0P        | 8000   | 74.9   | 75.3   | 77.4   | 80.1   | 82.7   | 86.0   | 86.2   | 87.7   | 83.4   | 86.0   | 81.0   |         |        |        |         |        |         | 121.0 |
| 1.024. 040/SEC      | 10200  | 74.5   | 74.4   | 76.7   | 80.5   | 82.3   | 85.0   | 86.4   | 86.0   | 81.5   | 84.0   | 80.0   |         |        |        |         |        |         | 120.0 |
| NO. OF BLADES 15    | 12500  | 75.5   | 75.1   | 77.3   | 80.5   | 83.2   | 85.4   | 86.0   | 81.0   | 80.0   | 84.7   | 80.4   |         |        |        |         |        |         | 121.1 |
| PM Typ 90EFD        | 16000  | 72.0   | 72.0   | 75.2   | 79.7   | 81.7   | 83.0   | 84.0   | 80.0   | 80.0   | 83.3   | 79.4   |         |        |        |         |        |         | 120.1 |
| 603. FT/SEC         | 20000  | 73.0   | 73.9   | 76.2   | 79.3   | 82.3   | 85.1   | 87.0   | 86.0   | 80.0   | 83.0   | 79.4   |         |        |        |         |        |         | 121.4 |
|                     | 25000  | 74.1   | 74.5   | 74.0   | 79.0   | 82.0   | 84.2   | 87.0   | 81.2   | 81.5   | 84.5   | 80.1   |         |        |        |         |        |         | 122.5 |
|                     | 31500  | 74.2   | 74.9   | 77.3   | 79.7   | 81.1   | 85.7   | 87.0   | 86.0   | 80.2   | 83.3   | 77.1   |         |        |        |         |        |         | 122.6 |
|                     | 40000  | 73.0   | 73.0   | 75.0   | 77.3   | 80.3   | 83.0   | 85.3   | 86.4   | 86.5   | 80.4   | 72.7   |         |        |        |         |        |         | 120.0 |
|                     | 50000  | 74.4   | 73.4   | 75.0   | 78.0   | 77.0   | 78.4   | 81.9   | 82.0   | 81.0   | 77.5   | 71.7   |         |        |        |         |        |         | 119.3 |
|                     | 63000  | 74.5   | 73.0   | 77.4   | 75.0   | 74.5   | 77.4   | 78.4   | 76.0   | 76.7   | 74.0   | 72.0   |         |        |        |         |        |         | 119.8 |
|                     | 80000  | 83.2   | 77.7   | 80.0   | 77.7   | 74.2   | 79.0   | 79.0   | 78.1   | 76.0   | 76.0   | 76.0   |         |        |        |         |        |         | 126.0 |
| OVERALL MEASURED    |        |        |        |        |        |        |        |        |        |        |        |        |         |        |        |         |        |         |       |
| D, EXACT CALCULATED |        | 92.1   | 90.0   | 89.4   | 83.7   | 84.0   | 87.0   | 100.1  | 102.0  | 102.0  | 89.0   | 96.4   |         |        |        |         |        |         | 134.3 |
| P400                |        | 101.0  | 101.7  | 103.2  | 105.4  | 107.3  | 109.0  | 111.0  | 112.0  | 114.4  | 111.0  | 100.0  |         |        |        |         |        |         |       |

ORIGINAL PAGE IS OF POOR QUALITY

|                    | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|
| PROP.              | (1.02) | (1.00) | (1.24) | (1.41) | (1.49) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 110. | 110. | 110. | 110. |
| STRAIGHT 200. FT.  | 100    | 44.0   | 49.0   | 51.5   | 51.4   | 49.3   | 53.4   | 52.0   | 52.6   | 54.7   | 47.2   | 57.0 |      |      |      |      |
| VEHICLE (40.00 M)  | 125    | 53.5   | 53.5   | 53.2   | 43.4   | 44.7   | 54.3   | 46.0   | 57.5   | 57.1   | 46.0   | 56.0 |      |      |      |      |
| CONFIG 24          | 160    | 51.0   | 52.0   | 53.4   | 44.3   | 44.6   | 54.7   | 44.2   | 56.0   | 57.5   | 47.0   | 56.0 |      |      |      |      |
| LOC RECONNECT ADV  | 200    | 52.5   | 51.0   | 52.5   | 43.0   | 44.3   | 57.4   | 47.0   | 50.2   | 50.0   | 49.5   | 50.1 |      |      |      |      |
| DATE 12/12/74      | 250    | 54.7   | 46.2   | 50.0   | 49.4   | 41.2   | 62.0   | 42.1   | 62.7   | 61.5   | 40.0   | 50.2 |      |      |      |      |
| RUN 37/5           | 315    | 55.9   | 55.0   | 57.3   | 40.3   | 44.6   | 59.2   | 40.2   | 50.6   | 50.4   | 47.7   | 55.7 |      |      |      |      |
| TAPE               | 400    | 54.0   | 54.0   | 55.0   | 40.4   | 44.0   | 57.4   | 47.6   | 50.0   | 57.5   | 46.0   | 54.5 |      |      |      |      |
| BAR 20.7 MC        | 500    | 52.2   | 52.7   | 53.0   | 44.0   | 44.0   | 57.3   | 50.3   | 50.4   | 57.7   | 40.4   | 53.2 |      |      |      |      |
| (100335, 4/M2)     | 630    | 51.3   | 53.0   | 55.0   | 40.4   | 44.7   | 50.7   | 40.9   | 60.5   | 50.3   | 47.0   | 52.7 |      |      |      |      |
| TAPR 40. DFC F     | 800    | 54.2   | 50.2   | 50.7   | 40.2   | 40.3   | 60.4   | 61.0   | 61.1   | 50.0   | 40.7   | 52.0 |      |      |      |      |
| 1700. DFC K1       | 1000   | 51.0   | 53.0   | 54.0   | 45.4   | 47.7   | 50.4   | 40.4   | 50.2   | 50.0   | 45.5   | 50.0 |      |      |      |      |
| YMET 40. DFC F     | 1250   | 50.0   | 50.0   | 52.7   | 45.0   | 44.0   | 54.1   | 49.3   | 50.0   | 50.5   | 49.1   | 40.5 |      |      |      |      |
| 1770. DFC K1       | 1500   | 50.4   | 51.0   | 54.2   | 55.0   | 47.4   | 54.7   | 40.1   | 50.0   | 57.0   | 43.5   | 47.0 |      |      |      |      |
| WACT 5.36 GM/M3    | 2000   | 51.7   | 52.3   | 55.3   | 47.7   | 40.3   | 61.3   | 61.0   | 62.0   | 62.0   | 44.0   | 40.1 |      |      |      |      |
| (.00536 GM/M3)     | 2500   | 40.5   | 40.0   | 52.1   | 44.3   | 44.1   | 56.4   | 40.2   | 55.0   | 53.0   | 40.0   | 44.0 |      |      |      |      |
| WFA 7020. RPM      | 3150   | 47.0   | 40.0   | 51.0   | 43.5   | 44.1   | 57.1   | 47.3   | 57.0   | 50.0   | 40.4   | 43.1 |      |      |      |      |
| (.110. GM/SEC)     | 4000   | 50.3   | 51.0   | 54.5   | 40.1   | 44.2   | 61.4   | 64.0   | 64.7   | 65.2   | 47.0   | 47.2 |      |      |      |      |
| WFR 7030. RPM      | 5000   | 47.7   | 49.0   | 52.0   | 55.1   | 40.1   | 61.1   | 43.7   | 63.3   | 61.0   | 44.7   | 44.3 |      |      |      |      |
| (.231. GM/SEC)     | 6300   | 47.1   | 49.0   | 52.2   | 49.0   | 42.3   | 61.1   | 63.2   | 64.1   | 64.1   | 43.0   | 43.0 |      |      |      |      |
| WPD 8023. RPM      | 8000   | 45.3   | 47.7   | 50.0   | 44.1   | 44.0   | 50.0   | 42.4   | 63.5   | 63.0   | 42.0   | 40.5 |      |      |      |      |
| (.024. GM/SEC)     | 10000  | 43.5   | 45.1   | 46.5   | 42.0   | 44.0   | 54.0   | 60.0   | 60.0   | 50.0   | 47.7   | 34.0 |      |      |      |      |
| NO. OF BLADPS 15   | 12500  | 41.0   | 43.2   | 40.0   | 50.7   | 43.7   | 55.0   | 50.2   | 50.4   | 55.3   | 43.0   | 20.0 |      |      |      |      |
| PAN TYP 30000      | 16000  | 34.3   | 36.0   | 40.0   | 45.0   | 40.0   | 50.4   | 42.2   | 53.1   | 40.3   | 30.0   | 19.0 |      |      |      |      |
| 603. FT/SEC        | 20000  | 29.2   | 32.5   | 30.0   | 41.1   | 44.4   | 46.7   | 40.0   | 40.3   | 43.5   | 20.0   | 0.0  |      |      |      |      |
|                    | 25000  | 21.0   | 25.3   | 30.3   | 34.0   | 30.0   | 30.0   | 40.0   | 40.5   | 34.0   | 10.7   |      |      |      |      |      |
|                    | 31500  | 0.1    | 14.2   | 20.2   | 24.5   | 20.5   | 30.4   | 30.0   | 27.1   | 10.5   |        |      |      |      |      |      |
|                    | 40000  |        |        | 2.0    | 7.2    | 11.0   | 12.4   | 11.0   | 6.2    |        |        |      |      |      |      |      |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |
| OVERALL CALCULATED | 45.0   | 45.0   | 47.0   | 49.3   | 71.2   | 72.5   | 73.0   | 74.1   | 73.5   | 40.5   | 60.0   |      |      |      |      |      |
| PAGE               | 70.7   | 70.7   | 70.1   | 81.0   | 43.7   | 50.9   | 47.1   | 67.2   | 67.0   | 81.0   | 73.7   |      |      |      |      |      |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 12 DAY 10 HR. 6.0

MODEL SHOWN PRESSURE LEVELS 150, DEG. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM JALFT IN DEGREES (AND RADIANS)

| PROC.            | 53.   | 62.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   | PH    |  |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|-------|--|
| 10.02            | 11.00 | 11.24 | 11.41 | 11.50 | 11.74 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 13.0. | 140. | 140. | 140. | 140. | 140. | 140. | 140. |       |  |
| RADIAL 17. FT.   | 50    |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |       |  |
| 93               |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |       |  |
| 80               |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |       |  |
| VEHICLE 4-55     | 100   | 74.0  | 70.0  | 64.0  | 62.0  | 61.1  | 61.0  | 70.1  | 73.2  | 70.5  | 75.3  | 70.0 |      |      |      |      |      |      | 113.0 |  |
| CONFIG 24        | 125   | 67.0  | 67.4  | 71.0  | 68.7  | 74.1  | 64.2  | 68.0  | 70.2  | 72.0  | 72.0  | 75.4 |      |      |      |      |      |      | 109.3 |  |
| LOC 9C4E4EC743V  | 150   | 65.0  | 65.0  | 64.1  | 66.4  | 64.0  | 64.7  | 64.4  | 68.7  | 71.5  | 73.0  | 75.1 |      |      |      |      |      |      | 103.6 |  |
| DATE 12/12/74    | 200   | 64.0  | 65.0  | 64.0  | 66.0  | 64.4  | 69.0  | 70.0  | 72.1  | 73.0  | 75.0  | 76.0 |      |      |      |      |      |      | 105.3 |  |
| QUA 37/A         | 250   | 69.3  | 68.0  | 70.4  | 69.0  | 70.0  | 71.0  | 72.0  | 73.1  | 73.2  | 75.1  | 78.3 |      |      |      |      |      |      | 106.3 |  |
| 740F             | 315   | 69.0  | 69.0  | 70.6  | 71.2  | 71.0  | 71.7  | 71.4  | 72.1  | 72.5  | 74.3  | 74.3 |      |      |      |      |      |      | 106.0 |  |
| DAZ 30.7 Mc      | 400   | 67.0  | 68.4  | 69.9  | 69.9  | 69.6  | 70.2  | 70.6  | 71.4  | 72.0  | 73.0  | 74.1 |      |      |      |      |      |      | 104.0 |  |
| 100335. 47/21    | 500   | 67.1  | 67.1  | 67.1  | 67.7  | 68.0  | 70.4  | 71.0  | 73.2  | 74.0  | 74.0  | 73.0 |      |      |      |      |      |      | 109.4 |  |
| 740 44. DEG F    | 630   | 69.1  | 68.0  | 70.4  | 70.7  | 70.7  | 74.2  | 74.1  | 70.4  | 70.2  | 77.1  | 74.4 |      |      |      |      |      |      | 108.3 |  |
| 1200. 675 G      | 810   | 73.1  | 71.0  | 73.1  | 72.2  | 73.6  | 74.7  | 74.1  | 70.4  | 77.0  | 77.3  | 74.0 |      |      |      |      |      |      | 109.1 |  |
| 740 40. 575 F    | 1000  | 68.4  | 68.4  | 68.4  | 69.7  | 71.0  | 73.2  | 74.3  | 70.1  | 77.2  | 77.0  | 72.0 |      |      |      |      |      |      | 107.0 |  |
| 1270. 700 G      | 1250  | 64.4  | 67.4  | 70.0  | 73.7  | 74.7  | 76.4  | 74.3  | 70.4  | 80.2  | 82.1  | 74.0 |      |      |      |      |      |      | 111.2 |  |
| 1270. 700 G      | 1500  | 67.2  | 68.7  | 68.0  | 71.5  | 73.2  | 75.2  | 74.0  | 70.0  | 70.5  | 77.4  | 72.4 |      |      |      |      |      |      | 100.4 |  |
| HAY 5.30 C/M3    | 2000  | 64.4  | 66.2  | 67.4  | 69.1  | 71.7  | 72.8  | 73.3  | 74.4  | 75.0  | 73.0  | 69.0 |      |      |      |      |      |      | 106.1 |  |
| 1-00335. 46/31   | 2500  | 64.7  | 65.3  | 64.4  | 68.4  | 70.3  | 72.0  | 72.0  | 72.0  | 74.2  | 76.4  | 69.3 |      |      |      |      |      |      | 103.3 |  |
| MPA 5400. 00H    | 3150  | 62.2  | 64.7  | 64.4  | 68.1  | 70.0  | 72.7  | 74.0  | 75.0  | 77.0  | 77.1  | 70.3 |      |      |      |      |      |      | 107.3 |  |
| 1 375. 647/SEC   | 4300  | 67.1  | 68.7  | 68.5  | 71.0  | 73.7  | 74.2  | 74.7  | 81.2  | 81.0  | 83.0  | 76.3 |      |      |      |      |      |      | 112.3 |  |
| MPA 5571. 00H    | 5000  | 64.0  | 65.6  | 67.0  | 69.0  | 72.2  | 73.7  | 70.4  | 80.4  | 80.0  | 80.3  | 73.0 |      |      |      |      |      |      | 110.0 |  |
| 1 503. 640/SEC   | 6300  | 65.4  | 66.0  | 67.7  | 70.2  | 73.4  | 74.0  | 70.0  | 80.7  | 82.4  | 80.5  | 74.4 |      |      |      |      |      |      | 111.0 |  |
| MPA 2023. 00H    | 7100  | 64.5  | 65.0  | 67.2  | 70.7  | 73.3  | 74.0  | 70.2  | 81.0  | 82.0  | 80.7  | 71.4 |      |      |      |      |      |      | 111.0 |  |
| 1 024. 640/SEC   | 10000 | 64.3  | 64.2  | 66.3  | 69.0  | 71.6  | 74.4  | 77.4  | 80.4  | 82.0  | 70.7  | 71.0 |      |      |      |      |      |      | 111.2 |  |
| NO. OF BLASTS Is | 12500 | 64.0  | 65.4  | 68.0  | 71.0  | 73.0  | 74.0  | 77.0  | 79.0  | 82.0  | 70.1  | 72.0 |      |      |      |      |      |      | 111.1 |  |
| PAK TIP SPEED    | 14500 | 63.3  | 62.0  | 64.0  | 71.5  | 70.7  | 73.7  | 74.4  | 79.0  | 81.0  | 70.0  | 71.2 |      |      |      |      |      |      | 110.0 |  |
| 470. FT/SEC      | 20000 | 63.0  | 63.5  | 64.7  | 71.4  | 73.3  | 74.1  | 77.0  | 80.2  | 81.5  | 77.4  | 70.7 |      |      |      |      |      |      | 111.0 |  |
| 25000            |       | 64.7  | 64.0  | 64.0  | 70.7  | 71.0  | 74.0  | 75.0  | 70.2  | 70.3  | 75.7  | 60.7 |      |      |      |      |      |      | 110.0 |  |
| 31500            |       | 64.4  | 63.0  | 65.1  | 68.5  | 72.1  | 74.3  | 76.3  | 70.1  | 70.0  | 75.4  | 67.2 |      |      |      |      |      |      | 111.0 |  |
| 40000            |       | 63.0  | 63.0  | 63.0  | 66.0  | 68.0  | 71.0  | 73.0  | 74.7  | 75.0  | 72.0  | 63.0 |      |      |      |      |      |      | 100.7 |  |
| 50000            |       | 64.7  | 64.3  | 65.5  | 65.3  | 68.0  | 68.7  | 70.1  | 70.0  | 70.0  | 80.2  | 62.0 |      |      |      |      |      |      | 100.4 |  |
| 63000            |       | 64.0  | 65.2  | 67.0  | 65.1  | 68.0  | 68.7  | 67.1  | 66.1  | 66.1  | 65.5  | 62.0 |      |      |      |      |      |      | 109.4 |  |
| 80000            |       | 73.3  | 67.0  | 70.0  | 67.0  | 68.2  | 60.1  | 60.1  | 60.1  | 66.0  | 67.0  | 66.0 |      |      |      |      |      |      | 110.0 |  |
| MEASURED         |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |       |  |
| CORRECTED        |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |       |  |
| PAK              |       | 62.1  | 62.0  | 63.1  | 66.0  | 67.0  | 69.0  | 69.3  | 61.0  | 63.0  | 62.1  | 62.0 |      |      |      |      |      |      | 124.0 |  |
| PAK              |       | 62.3  | 63.0  | 64.0  | 66.2  | 68.0  | 100.0 | 101.0 | 103.0 | 100.4 | 100.2 | 99.0 |      |      |      |      |      |      |       |  |

PROP. DATE - MONTH 12 DAY 10 1968  
 PROP. SPIN PRESSURE LEVELS 140. (EG. F. 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS).

|                 | 53.   | 63.  | 71.  | 81.  | 91.  | 101. | 111. | 122. | 133. | 143. | 154. | 0.   | 0. | 0. | 0. | 0. |
|-----------------|-------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|
| 50              |       |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
| 53              |       |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
| 54              |       |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
| VEHICLE 0-55    | 170   | 59.1 | 54.2 | 58.0 | 61.2 | 61.5 | 64.9 | 64.0 | 59.1 | 66.0 | 66.0 | 66.0 |    |    |    |    |
| COMP 24         | 125   | 41.3 | 44.6 | 49.5 | 46.0 | 44.5 | 44.3 | 44.0 | 47.0 | 47.4 | 46.2 | 45.1 |    |    |    |    |
| LOC 40-40-40    | 160   | 41.0 | 42.7 | 43.0 | 44.6 | 44.1 | 44.8 | 44.0 | 46.4 | 46.0 | 47.0 | 46.0 |    |    |    |    |
| DATE 12/12/74   | 200   | 41.0 | 42.6 | 44.3 | 45.7 | 44.0 | 47.0 | 46.4 | 46.0 | 46.2 | 46.0 | 46.2 |    |    |    |    |
| RUN 37/8        | 250   | 45.2 | 45.0 | 46.0 | 47.0 | 46.0 | 46.0 | 46.3 | 46.7 | 46.3 | 46.0 | 44.5 |    |    |    |    |
| TYPE            | 315   | 45.0 | 46.7 | 46.1 | 47.0 | 46.7 | 46.9 | 46.0 | 46.6 | 47.5 | 47.1 | 43.3 |    |    |    |    |
| 500             | 43.5  | 45.1 | 46.3 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 46.9 | 46.4 | 47.0 |      |    |    |    |    |
| 500             | 49.7  | 43.0 | 44.3 | 45.4 | 46.7 | 46.1 | 46.0 | 46.4 | 46.7 | 46.7 | 47.3 | 42.0 |    |    |    |    |
| 100335 4/4/21   | 430   | 44.0 | 45.4 | 47.4 | 48.3 | 48.4 | 51.4 | 53.2 | 52.5 | 50.0 | 48.3 | 42.9 |    |    |    |    |
| TYPE 40. DFC F  | 800   | 44.4 | 48.3 | 50.2 | 49.7 | 51.3 | 52.2 | 53.0 | 52.4 | 51.4 | 49.4 | 42.7 |    |    |    |    |
| 1270. DFC F     | 1000  | 43.6 | 44.6 | 45.3 | 47.1 | 46.4 | 46.4 | 41.2 | 52.0 | 51.5 | 49.7 | 39.9 |    |    |    |    |
| TYPE 40. DFC F  | 1250  | 43.4 | 43.5 | 47.5 | 51.0 | 51.1 | 53.7 | 45.0 | 55.1 | 54.3 | 43.7 | 47.0 |    |    |    |    |
| 1270. DFC F     | 1450  | 41.0 | 47.0 | 46.3 | 48.0 | 48.4 | 52.3 | 42.3 | 52.1 | 50.4 | 48.7 | 38.1 |    |    |    |    |
| TYPE 5.36 G/3   | 2000  | 48.0 | 41.0 | 43.0 | 48.0 | 48.4 | 46.4 | 46.0 | 46.7 | 46.6 | 44.0 | 38.1 |    |    |    |    |
| 1.00536 G/3     | 2500  | 39.0 | 40.0 | 42.6 | 45.1 | 47.4 | 46.7 | 46.2 | 47.0 | 47.6 | 45.0 | 35.1 |    |    |    |    |
| TYPE 5.00. G/3  | 3150  | 34.1 | 39.0 | 41.6 | 44.0 | 47.4 | 46.1 | 46.0 | 46.3 | 50.0 | 47.3 | 35.4 |    |    |    |    |
| 1.475. G/3/SEC  | 4000  | 40.5 | 43.4 | 44.1 | 47.0 | 46.0 | 52.2 | 44.1 | 55.5 | 54.3 | 43.0 | 40.5 |    |    |    |    |
| TYPE 4571. G/3  | 5000  | 37.0 | 40.1 | 42.3 | 45.4 | 48.1 | 51.4 | 52.3 | 54.4 | 52.0 | 49.3 | 37.3 |    |    |    |    |
| 1.543. G/3/SEC  | 6300  | 37.0 | 39.0 | 42.2 | 45.3 | 47.0 | 46.0 | 43.2 | 53.0 | 53.4 | 48.2 | 35.0 |    |    |    |    |
| TYPE 2033. G/3  | 8000  | 35.4 | 36.3 | 40.6 | 44.7 | 44.4 | 46.7 | 51.4 | 52.8 | 51.5 | 46.5 | 35.0 |    |    |    |    |
| 1.020. G/3/SEC  | 10000 | 33.2 | 34.0 | 38.1 | 42.2 | 44.2 | 46.0 | 48.0 | 50.5 | 50.0 | 41.0 | 24.0 |    |    |    |    |
| NO. OF SLABS 15 | 12500 | 31.0 | 33.6 | 36.1 | 41.0 | 42.4 | 46.0 | 47.0 | 47.2 | 46.4 | 37.3 | 21.3 |    |    |    |    |
| MAX TIP SPEED   | 15000 | 24.0 | 26.0 | 26.0 | 30.1 | 32.0 | 40.2 | 41.7 | 42.0 | 40.4 | 29.4 | 16.8 |    |    |    |    |
| 470. F/3/SEC    | 20000 | 19.2 | 22.0 | 25.3 | 33.2 | 34.4 | 36.0 | 37.2 | 37.0 | 34.1 | 21.0 |      |    |    |    |    |
| 25000           | 11.4  | 15.4 | 18.3 | 25.6 | 27.0 | 28.0 | 28.0 | 27.0 | 22.5 | 7.0  |      |      |    |    |    |    |
| 31500           |       | 5.3  | 8.0  | 14.3 | 17.0 | 16.0 | 18.5 | 15.0 | 8.3  |      |      |      |    |    |    |    |
| 40000           |       |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
| 50000           |       |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
| 63000           |       |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
| 80000           |       |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
| OVERALL CAUCHY  | 4700  | 57.3 | 50.6 | 61.0 | 63.0 | 64.0 | 65.0 | 65.1 | 64.0 | 63.0 | 61.0 | 55.3 |    |    |    |    |
| 7400            | 64.0  | 67.8 | 66.0 | 72.3 | 74.3 | 76.1 | 77.3 | 76.0 | 77.0 | 74.0 | 64.0 |      |    |    |    |    |

4700 7400 15000 20000 25000 31500 40000 50000 63000 80000

|                    |            | 53     | 64     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 158    | 0.   | 0.   | 0. | 0. | 0. | 0. | 90 |       |
|--------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|----|----|----|----|----|-------|
|                    | FREQ       | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.   | 0.   | 0. | 0. | 0. | 0. | 90 |       |
|                    | 50         |        |        |        |        |        |        |        |        |        |        |        |      |      |    |    |    |    |    |       |
|                    | 63         |        |        |        |        |        |        |        |        |        |        |        |      |      |    |    |    |    |    |       |
|                    | 80         |        |        |        |        |        |        |        |        |        |        |        |      |      |    |    |    |    |    |       |
| RADIAL             | 17. FT.    |        |        |        |        |        |        |        |        |        |        |        |      |      |    |    |    |    |    |       |
| ( S. M.)           |            |        |        |        |        |        |        |        |        |        |        |        |      |      |    |    |    |    |    |       |
| VEHICLE            | RMS        | 125    | 73.5   | 75.6   | 79.9   | 82.7   | 83.1   | 81.4   | 78.4   | 72.9   | 70.7   | 75.1   | 76.9 |      |    |    |    |    |    | 113.5 |
| CONFIG             | 25         | 100    | 67.0   | 67.4   | 69.9   | 69.2   | 71.9   | 68.2   | 68.6   | 70.7   | 71.2   | 73.1   | 75.9 |      |    |    |    |    |    | 104.8 |
| LOC                | SCHEMECTAY | 200    | 65.5   | 65.6   | 66.9   | 67.2   | 67.9   | 66.9   | 64.9   | 58.1   | 70.2   | 71.5   | 74.1 | 75.1 |    |    |    |    |    | 103.8 |
| DATE               | 12/13/74   | 250    | 68.5   | 68.9   | 69.6   | 70.9   | 71.6   | 71.9   | 72.3   | 73.1   | 73.2   | 74.8   | 75.8 |      |    |    |    |    |    | 105.0 |
| RUN                | 39/1       | 315    | 69.0   | 70.1   | 70.9   | 71.7   | 71.4   | 71.7   | 71.3   | 72.1   | 72.7   | 74.1   | 74.6 |      |    |    |    |    |    | 106.3 |
| TAPE               |            | 400    | 67.8   | 68.9   | 68.4   | 67.7   | 70.1   | 70.4   | 71.4   | 72.1   | 72.5   | 73.8   | 74.3 |      |    |    |    |    |    | 106.0 |
| BAR                | 29.9 HG    | 500    | 66.3   | 67.1   | 67.1   | 67.2   | 67.1   | 70.7   | 71.9   | 73.2   | 73.2   | 74.6   | 73.9 |      |    |    |    |    |    | 105.2 |
| (01030 N/M2)       |            | 630    | 66.4   | 69.1   | 70.4   | 71.4   | 73.2   | 74.7   | 75.9   | 76.9   | 76.2   | 77.1   | 74.4 |      |    |    |    |    |    | 105.3 |
| TANG               | 48. DEG F  | 800    | 73.1   | 71.6   | 73.4   | 72.4   | 75.1   | 75.7   | 76.6   | 77.4   | 77.5   | 78.1   | 75.1 |      |    |    |    |    |    | 105.5 |
| (2*2. DEG X)       |            | 1000   | 67.9   | 68.8   | 68.9   | 71.2   | 71.1   | 74.9   | 76.3   | 77.9   | 78.7   | 79.3   | 73.8 |      |    |    |    |    |    | 106.7 |
| T-ET               | 45. DEG F  | 1250   | 69.2   | 69.7   | 74.1   | 77.5   | 77.4   | 79.5   | 81.3   | 83.6   | 83.2   | 84.9   | 78.4 |      |    |    |    |    |    | 109.4 |
| (200- DEG R)       |            | 1600   | 68.4   | 67.7   | 70.4   | 73.3   | 74.0   | 76.5   | 77.8   | 79.1   | 79.0   | 80.9   | 74.4 |      |    |    |    |    |    | 114.5 |
| MACT               | 6.96 CM/MS | 2000   | 63.2   | 65.7   | 65.6   | 67.1   | 68.2   | 69.0   | 69.3   | 70.6   | 70.5   | 71.9   | 68.3 |      |    |    |    |    |    | 110.6 |
| (00898 KC/MS)      |            | 2500   | 64.9   | 66.2   | 66.3   | 68.3   | 70.2   | 72.0   | 71.8   | 72.6   | 74.0   | 73.1   | 69.1 |      |    |    |    |    |    | 102.9 |
| NFA                | 9309. RPM  | 3150   | 64.9   | 64.2   | 67.1   | 67.4   | 69.0   | 71.2   | 72.5   | 73.5   | 76.0   | 75.1   | 69.0 |      |    |    |    |    |    | 105.0 |
| ( 577- RAD/SEC)    |            | 4000   | 67.1   | 67.4   | 69.0   | 70.6   | 73.2   | 74.7   | 76.4   | 78.7   | 81.1   | 81.3   | 73.0 |      |    |    |    |    |    | 105.7 |
| NFK                | 5568. RPM  | 5000   | 68.8   | 68.8   | 68.9   | 69.9   | 72.2   | 74.1   | 77.4   | 80.9   | 80.6   | 80.9   | 73.1 |      |    |    |    |    |    | 110.5 |
| ( 543- RAD/SEC)    |            | 6300   | 66.6   | 72.4   | 68.9   | 71.9   | 71.8   | 75.1   | 77.8   | 80.2   | 81.5   | 79.2   | 73.0 |      |    |    |    |    |    | 110.6 |
| NFD                | 8823. RPM  | 8000   | 67.2   | 71.3   | 67.6   | 72.4   | 71.9   | 75.0   | 77.6   | 80.6   | 81.6   | 80.4   | 74.3 |      |    |    |    |    |    | 111.0 |
| ( 924- RAD/SEC)    |            | 10000  | 74.2   | 69.8   | 67.4   | 72.6   | 72.0   | 75.3   | 78.1   | 80.3   | 82.0   | 79.6   | 72.9 |      |    |    |    |    |    | 111.3 |
| NO. OF BLADES      | 15         | 12500  | 64.4   | 70.8   | 67.7   | 71.4   | 72.6   | 75.4   | 78.4   | 80.1   | 82.4   | 79.2   | 74.1 |      |    |    |    |    |    | 111.6 |
| FAH TIP SPEED      | 16050      |        | 71.4   | 70.4   | 64.5   | 73.3   | 71.7   | 73.5   | 76.4   | 79.1   | 80.6   | 77.0   | 72.6 |      |    |    |    |    |    | 111.7 |
| 481. FT/SEC.       | 20000      |        | 67.6   | 68.2   | 67.2   | 74.4   | 71.3   | 74.6   | 77.1   | 79.7   | 81.7   | 77.4   | 71.5 |      |    |    |    |    |    | 110.7 |
|                    | 25000      |        | 65.6   | 67.5   | 65.1   | 68.4   | 70.8   | 73.2   | 75.2   | 77.2   | 79.0   | 74.7   | 69.2 |      |    |    |    |    |    | 111.8 |
|                    | 31500      |        | 64.6   | 65.1   | 64.8   | 72.7   | 70.8   | 74.3   | 75.1   | 77.1   | 77.8   | 74.4   | 67.2 |      |    |    |    |    |    | 109.9 |
|                    | 40000      |        | 64.5   | 64.9   | 64.6   | 69.6   | 67.5   | 70.5   | 72.6   | 74.1   | 74.6   | 72.0   | 63.5 |      |    |    |    |    |    | 110.7 |
|                    | 50000      |        | 67.5   | 65.9   | 67.1   | 67.6   | 66.2   | 68.8   | 69.9   | 70.1   | 70.7   | 69.2   | 63.1 |      |    |    |    |    |    | 109.2 |
|                    | 63000      |        | 69.7   | 66.8   | 68.8   | 68.2   | 68.9   | 68.3   | 68.7   | 67.4   | 66.9   | 67.1   | 64.8 |      |    |    |    |    |    | 107.0 |
|                    | 86000      |        | 73.9   | 69.4   | 72.4   | 77.1   | 69.7   | 70.3   | 70.2   | 69.5   | 67.9   | 68.6   | 67.4 |      |    |    |    |    |    | 110.7 |
| OVERALL MEASURED   |            |        |        |        |        |        |        |        |        |        |        |        |      |      |    |    |    |    |    |       |
| OVERALL CALCULATED |            |        | 33.8   | 64.8   | 65.2   | 67.9   | 68.0   | 69.0   | 90.3   | 92.1   | 93.0   | 92.4   | 88.3 |      |    |    |    |    |    | 128.4 |
| PNDU               |            |        | 93.0   | 94.5   | 94.4   | 96.2   | 97.8   | 99.3   | 101.0  | 103.1  | 104.0  | 104.2  | 98.6 |      |    |    |    |    |    |       |

AIRTEL MODEL 11000, APR 73  
 1100 1113  
 PRINTED IN U.S.A. 77

ANGLES FROM INLET IN DEGREES (ART WASTAGE)

FREQ. 53. 64. 71. 81. 91. 101. 111. 122. 133. 145. 156. 0. 0. 0. 0. 0.  
 10.92 11.38 11.24 11.41 11.54 11.76 11.94 12.13 12.32 12.52 12.73 0. 0. 0. 0. 0.

|                    | 53    | 64   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 156  | 0    | 0 | 0 | 0 | 0 |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|
| SIDE LINE 200. FT. | 50    | 63   | 60   |      |      |      |      |      |      |      |      |      |   |   |   |   |
| (60.98 P)          | 100   | 49.9 | 52.9 | 57.8 | 61.0 | 61.5 | 59.7 | 56.2 | 49.8 | 46.3 | 46.5 | 46.8 |   |   |   |   |
| VEHICLE 9-59       | 125   | 43.3 | 44.6 | 47.7 | 47.4 | 50.2 | 46.3 | 46.7 | 47.5 | 46.7 | 46.4 | 45.6 |   |   |   |   |
| CO.FIG 25          | 160   | 41.9 | 43.7 | 44.4 | 45.3 | 46.1 | 45.0 | 45.7 | 46.9 | 46.6 | 47.3 | 44.6 |   |   |   |   |
| LOC SCHENECTADY    | 200   | 41.6 | 42.6 | 44.6 | 45.2 | 46.6 | 48.2 | 48.7 | 49.3 | 48.5 | 49.1 | 48.4 |   |   |   |   |
| DATE 12/13/74      | 250   | 44.5 | 45.8 | 47.2 | 49.9 | 49.7 | 49.8 | 49.8 | 49.7 | 48.3 | 47.7 | 45.0 |   |   |   |   |
| RUN 39/1           | 315   | 44.0 | 47.0 | 48.4 | 49.6 | 49.4 | 49.5 | 48.7 | 48.6 | 47.7 | 46.8 | 43.5 |   |   |   |   |
| TYPE 400           | 43.5  | 45.6 | 45.4 | 47.5 | 48.1 | 48.2 | 48.6 | 48.5 | 47.4 | 46.4 | 43.0 |      |   |   |   |   |
| BAR 29.9 HG        | 500   | 41.9 | 43.8 | 44.5 | 45.9 | 47.0 | 48.4 | 49.0 | 49.4 | 48.0 | 47.0 | 42.3 |   |   |   |   |
| (01800 K/M2)       | 630   | 43.8 | 45.7 | 47.6 | 48.1 | 50.9 | 52.3 | 52.9 | 53.1 | 50.0 | 46.3 | 42.5 |   |   |   |   |
| TAND 48. DEG F     | 800   | 48.4 | 48.0 | 50.5 | 50.0 | 52.8 | 53.2 | 53.5 | 53.4 | 51.9 | 50.1 | 43.0 |   |   |   |   |
| (282. DEG F)       | 1000  | 43.1 | 44.9 | 45.5 | 46.6 | 50.7 | 52.3 | 53.2 | 53.7 | 53.0 | 51.2 | 41.4 |   |   |   |   |
| THET 45. DEG F     | 1250  | 44.2 | 45.7 | 51.0 | 54.8 | 54.8 | 56.7 | 58.0 | 59.3 | 57.3 | 56.4 | 45.5 |   |   |   |   |
| (240. DEG K)       | 1500  | 41.2 | 43.8 | 47.0 | 50.4 | 51.2 | 53.5 | 54.3 | 54.6 | 53.8 | 52.2 | 41.1 |   |   |   |   |
| MACT 6.98 CM/MS    | 2000  | 37.7 | 41.4 | 42.1 | 44.0 | 45.3 | 45.8 | 45.4 | 45.9 | 44.1 | 42.8 | 34.8 |   |   |   |   |
| (100590 K5/M3)     | 2500  | 39.2 | 41.7 | 42.6 | 45.1 | 47.1 | 48.7 | 47.9 | 47.7 | 47.4 | 43.8 | 34.9 |   |   |   |   |
| MFA 5509. RPM      | 3130  | 38.9 | 39.4 | 43.0 | 43.8 | 45.6 | 47.6 | 48.3 | 48.3 | 48.9 | 45.3 | 34.1 |   |   |   |   |
| (577. RAD/SEC)     | 4000  | 40.5 | 42.1 | 44.5 | 46.6 | 49.4 | 50.8 | 51.8 | 53.0 | 53.5 | 50.7 | 37.8 |   |   |   |   |
| MFK 5568. RPM      | 5000  | 41.9 | 43.3 | 44.2 | 45.6 | 48.1 | 49.8 | 53.0 | 54.8 | 52.8 | 49.0 | 38.5 |   |   |   |   |
| (583. RAD/SEC)     | 6300  | 38.8 | 46.8 | 43.4 | 47.0 | 47.0 | 50.1 | 52.2 | 53.3 | 52.8 | 48.9 | 34.8 |   |   |   |   |
| MFD 8823. RPM      | 8000  | 38.0 | 43.9 | 41.0 | 46.3 | 46.1 | 48.9 | 50.8 | 52.9 | 51.2 | 48.2 | 33.0 |   |   |   |   |
| (924. RAD/SEC)     | 10000 | 43.1 | 40.5 | 39.2 | 45.1 | 44.6 | 47.7 | 49.6 | 50.4 | 49.4 | 42.7 | 27.7 |   |   |   |   |
| NO. OF BLADES 15   | 12500 | 34.5 | 38.9 | 37.2 | 41.6 | 43.0 | 45.5 | 47.6 | 47.6 | 46.8 | 38.4 | 23.2 |   |   |   |   |
| FAN TIP SPEED      | 16000 | 32.8 | 34.4 | 30.2 | 36.9 | 38.6 | 40.0 | 41.7 | 42.2 | 39.8 | 29.7 | 18.4 |   |   |   |   |
| 481. FT/SEC        | 20000 | 23.0 | 28.8 | 27.8 | 36.2 | 33.4 | 36.3 | 37.3 | 37.1 | 34.4 | 21.7 |      |   |   |   |   |
|                    | 25000 | 12.3 | 18.3 | 18.5 | 23.3 | 26.2 | 27.9 | 28.0 | 26.6 | 22.2 | 6.8  |      |   |   |   |   |
|                    | 31500 |      | 4.5  | 7.7  | 17.5 | 18.2 | 18.9 | 17.2 | 14.6 | 7.0  |      |      |   |   |   |   |
|                    | 40000 |      |      |      |      |      | 0.1  |      |      |      |      |      |   |   |   |   |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
| OVERALL CALCULATED |       | 56.9 | 58.8 | 61.6 | 64.2 | 68.1 | 65.2 | 65.3 | 65.8 | 64.3 | 62.5 | 59.7 |   |   |   |   |
| PNCB               |       | 66.3 | 68.9 | 70.8 | 72.4 | 74.1 | 75.4 | 76.4 | 77.4 | 76.6 | 74.0 | 63.4 |   |   |   |   |

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)  
 PROC. DATE - MONTH 12 DAY 16 NO. 147  
 ANGLES FROM INLET IN DEGREES (ART WASTAGE)  
 FREQ. 53. 64. 71. 81. 91. 101. 111. 122. 133. 145. 156. 0. 0. 0. 0. 0.  
 10.92 11.38 11.24 11.41 11.54 11.76 11.94 12.13 12.32 12.52 12.73 0. 0. 0. 0. 0.  
 SIDE LINE 200. FT.  
 (60.98 P)  
 VEHICLE 9-59  
 CO.FIG 25  
 LOC SCHENECTADY  
 DATE 12/13/74  
 RUN 39/1  
 TYPE 400  
 BAR 29.9 HG  
 (01800 K/M2)  
 TAND 48. DEG F  
 (282. DEG F)  
 THET 45. DEG F  
 (240. DEG K)  
 MACT 6.98 CM/MS  
 (100590 K5/M3)  
 MFA 5509. RPM  
 (577. RAD/SEC)  
 MFK 5568. RPM  
 (583. RAD/SEC)  
 MFD 8823. RPM  
 (924. RAD/SEC)  
 NO. OF BLADES 15  
 FAN TIP SPEED  
 481. FT/SEC  
 OVERALL CALCULATED  
 PNCB

| RADIATION                 | ANGLE FROM INLET IN DEGREES (AND RADIANS) | FREQ. (53, 62, 71, 81, 91, 101, 111, 122, 133, 145, 156, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0) |      |      |      |       |       |       |       |       |       | PWL   |     |   |   |   |   |   |   |   |       |
|---------------------------|---|--|------|------|------|-------|-------|-------|-------|-------|-------|-------|-----|---|---|---|---|---|---|---|-------|
|                           |   | 53   | 62   | 71   | 81   | 91    | 101   | 111   | 122   | 133   | 145   |       | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0     |
| VEHICLE (5. M)            | 130                                       | 72.8   | 75.1 | 74.1 | 71.7 | 68.9  | 70.9  | 73.1  | 72.9  | 75.7  | 74.8  | 80.4  |     |   |   |   |   |   |   |   | 108.2 |
| CONFIG 25                 | 125                                       | 69.5   | 69.6 | 71.4 | 70.9 | 72.6  | 71.2  | 71.9  | 73.7  | 74.7  | 76.5  | 80.1  |     |   |   |   |   |   |   |   | 107.7 |
| LCC SCHEMECTADY           | 160                                       | 68.8   | 69.1 | 69.1 | 69.9 | 73.4  | 70.2  | 71.9  | 73.7  | 75.2  | 77.9  | 80.1  |     |   |   |   |   |   |   |   | 107.5 |
| DATE 12/13/74             | 200                                       | 67.5   | 64.1 | 64.4 | 69.9 | 71.9  | 73.6  | 74.1  | 77.1  | 76.5  | 79.3  | 81.1  |     |   |   |   |   |   |   |   | 109.1 |
| RUN 30/2                  | 250                                       | 71.3   | 71.6 | 72.6 | 73.9 | 74.6  | 74.9  | 75.8  | 77.1  | 77.2  | 78.6  | 80.1  |     |   |   |   |   |   |   |   | 109.0 |
| TAPE                      | 315                                       | 73.3   | 73.6 | 74.4 | 74.9 | 74.9  | 75.2  | 75.1  | 77.4  | 76.2  | 78.6  | 79.1  |     |   |   |   |   |   |   |   | 110.0 |
| BAR 29.9 HG               | 400                                       | 70.5   | 71.4 | 71.9 | 72.7 | 72.7  | 73.4  | 74.4  | 76.1  | 75.7  | 77.6  | 78.6  |     |   |   |   |   |   |   |   | 108.6 |
| (01000 N/M2)              | 500                                       | 69.1   | 69.6 | 70.1 | 70.9 | 72.1  | 72.9  | 75.1  | 77.9  | 76.7  | 78.1  | 77.4  |     |   |   |   |   |   |   |   | 108.7 |
| TABD 48. DEG F            | 630                                       | 71.4   | 71.6 | 72.9 | 74.2 | 75.9  | 76.7  | 78.9  | 81.9  | 79.2  | 79.6  | 74.1  |     |   |   |   |   |   |   |   | 111.7 |
| (282. DEG K)              | 800                                       | 73.9   | 73.4 | 74.4 | 74.7 | 76.4  | 77.4  | 78.6  | 79.1  | 79.7  | 79.8  | 78.1  |     |   |   |   |   |   |   |   | 111.5 |
| THET 45. DEG F            | 1000                                      | 70.6   | 71.4 | 71.1 | 73.7 | 75.4  | 77.2  | 78.4  | 80.1  | 81.0  | 80.6  | 76.6  |     |   |   |   |   |   |   |   | 111.6 |
| (250. DEG K)              | 1250                                      | 69.2   | 68.7 | 71.1 | 73.7 | 75.9  | 77.7  | 79.3  | 80.9  | 81.5  | 81.4  | 78.9  |     |   |   |   |   |   |   |   | 112.1 |
| NACT 6.98 GM/M3           | 1600                                      | 70.2   | 70.4 | 75.1 | 76.5 | 79.7  | 79.7  | 80.6  | 82.6  | 84.5  | 83.6  | 77.4  |     |   |   |   |   |   |   |   | 114.3 |
| (400698 KC/M3)            | 2000                                      | 66.4   | 67.2 | 68.4 | 70.3 | 71.5  | 72.5  | 73.6  | 73.9  | 74.5  | 74.8  | 71.8  |     |   |   |   |   |   |   |   | 106.3 |
| NFA 6296. RPM             | 2500                                      | 66.6   | 67.7 | 68.8 | 71.6 | 73.0  | 74.2  | 73.5  | 73.6  | 74.7  | 73.6  | 71.6  |     |   |   |   |   |   |   |   | 106.7 |
| (659. RAD/SEC)            | 3150                                      | 66.1   | 66.7 | 68.3 | 71.1 | 72.7  | 74.7  | 76.0  | 77.0  | 80.5  | 77.9  | 72.6  |     |   |   |   |   |   |   |   | 109.3 |
| NFK 3.64. RPM             | 4000                                      | 67.1   | 68.1 | 70.0 | 72.8 | 75.7  | 77.2  | 79.2  | 81.2  | 83.6  | 79.8  | 74.7  |     |   |   |   |   |   |   |   | 112.3 |
| (888. RAD/SEC)            | 5000                                      | 67.0   | 68.1 | 70.9 | 73.5 | 75.4  | 78.1  | 82.1  | 84.4  | 85.1  | 82.3  | 78.6  |     |   |   |   |   |   |   |   | 114.4 |
| NFB 8823. RPM             | 6000                                      | 68.6   | 67.6 | 69.4 | 73.6 | 74.5  | 75.3  | 81.3  | 83.2  | 84.8  | 80.4  | 75.9  |     |   |   |   |   |   |   |   | 113.7 |
| (924. RAD/SEC)            | 8000                                      | 66.7   | 68.3 | 70.4 | 74.4 | 75.4  | 79.2  | 81.8  | 84.1  | 86.1  | 83.1  | 76.8  |     |   |   |   |   |   |   |   | 115.0 |
| NO. OF BLADES 15          | 10000                                     | 65.9   | 67.3 | 69.6 | 75.4 | 76.8  | 78.8  | 82.3  | 84.6  | 85.7  | 81.1  | 75.2  |     |   |   |   |   |   |   |   | 114.9 |
| FAN TIP SPEED 550. FT/SEC | 12500                                     | 66.9   | 67.8 | 69.2 | 73.4 | 75.3  | 78.1  | 81.9  | 83.4  | 85.9  | 80.9  | 75.1  |     |   |   |   |   |   |   |   | 114.8 |
|                           | 16000                                     | 63.9   | 64.7 | 67.0 | 72.0 | 73.5  | 77.0  | 79.4  | 82.4  | 83.4  | 78.5  | 73.5  |     |   |   |   |   |   |   |   | 113.3 |
|                           | 20000                                     | 64.3   | 65.2 | 67.5 | 78.4 | 74.0  | 77.6  | 80.1  | 83.2  | 85.5  | 78.7  | 74.2  |     |   |   |   |   |   |   |   | 115.0 |
|                           | 25000                                     | 65.4   | 65.5 | 67.3 | 81.6 | 74.1  | 76.9  | 78.7  | 81.0  | 82.3  | 77.4  | 71.4  |     |   |   |   |   |   |   |   | 114.3 |
|                           | 31500                                     | 64.4   | 64.9 | 67.3 | 76.9 | 74.6  | 77.5  | 78.8  | 81.1  | 81.5  | 76.7  | 69.7  |     |   |   |   |   |   |   |   | 114.3 |
|                           | 40000                                     | 64.8   | 64.9 | 66.3 | 74.6 | 72.0  | 74.5  | 76.6  | 77.9  | 78.8  | 74.5  | 66.2  |     |   |   |   |   |   |   |   | 113.1 |
|                           | 50000                                     | 67.3   | 68.4 | 67.8 | 72.4 | 69.4  | 72.0  | 73.4  | 73.1  | 73.9  | 72.0  | 64.1  |     |   |   |   |   |   |   |   | 111.7 |
|                           | 63000                                     | 69.7   | 67.3 | 69.1 | 70.2 | 67.9  | 70.0  | 69.7  | 69.2  | 68.9  | 68.3  | 64.8  |     |   |   |   |   |   |   |   | 112.8 |
|                           | 80000                                     | 73.9   | 69.9 | 72.4 | 70.3 | 69.7  | 70.3  | 70.2  | 69.5  | 67.9  | 68.6  | 67.4  |     |   |   |   |   |   |   |   | 117.4 |
| OVERALL MEASURED          |   |  |      |      |      |       |       |       |       |       |       |       |     |   |   |   |   |   |   |   |       |
| OVERALL CALCULATED        |   | 84.1   | 84.4 | 85.7 | 89.3 | 88.9  | 90.9  | 93.0  | 95.0  | 96.3  | 93.9  | 91.4  |     |   |   |   |   |   |   |   | 127.3 |
| PNDF                      |   | 93.5   | 94.3 | 95.9 | 98.2 | 100.1 | 101.8 | 104.3 | 106.3 | 107.2 | 105.3 | 101.5 |     |   |   |   |   |   |   |   |       |

ORIGINAL PAGE IS OF POOR QUALITY

MODEL SOUND PRESSURE LEVELS 159. DFG. F. 70 PERCENT REL. HUM. EAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.  | 0.  | 0.  | 0.  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|
| FACTOR             | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.   | 10. | 20. | 30. | 40. |
| SIDE INLET 200 FT. | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50   | 50  | 50  | 50  | 50  |
| VEHICLE            | 100    | 49.1   | 52.4   | 52.1   | 58.3   | 48.3   | 49.2   | 50.9   | 48.8   | 48.3   | 50.3   | 50.3 |     |     |     |     |
| CONFIG             | 125    | 45.8   | 46.8   | 49.2   | 49.1   | 51.0   | 49.3   | 49.6   | 50.5   | 50.2   | 50.2   | 49.9 |     |     |     |     |
| LOC SCHENECTADY    | 160    | 44.9   | 46.2   | 46.9   | 46.1   | 48.6   | 48.3   | 49.5   | 50.4   | 50.6   | 51.0   | 49.6 |     |     |     |     |
| DATE 12/13/74      | 200    | 43.6   | 45.1   | 46.1   | 48.0   | 50.1   | 51.7   | 51.7   | 53.8   | 51.7   | 52.4   | 50.4 |     |     |     |     |
| RUN 30/2           | 250    | 47.0   | 48.5   | 50.2   | 51.9   | 52.7   | 52.8   | 53.3   | 53.7   | 52.3   | 51.5   | 49.2 |     |     |     |     |
| TYPE               | 315    | 48.9   | 50.5   | 51.9   | 52.8   | 52.9   | 53.0   | 52.5   | 53.9   | 51.2   | 51.3   | 48.0 |     |     |     |     |
| BAR 29.9 HG        | 400    | 45.5   | 48.1   | 49.3   | 50.5   | 50.8   | 51.2   | 51.6   | 52.5   | 50.6   | 50.2   | 47.3 |     |     |     |     |
| 101000. H/M21      | 500    | 44.7   | 46.3   | 47.5   | 48.7   | 50.0   | 50.6   | 52.3   | 54.2   | 51.5   | 50.9   | 45.8 |     |     |     |     |
| TAMB 40. DEG F     | 600    | 46.8   | 48.2   | 50.1   | 51.4   | 53.7   | 54.3   | 55.9   | 58.1   | 53.9   | 51.6   | 46.3 |     |     |     |     |
| (282. DEG K)       | 800    | 49.2   | 49.8   | 51.3   | 52.2   | 54.0   | 54.9   | 55.5   | 55.2   | 54.2   | 51.9   | 46.0 |     |     |     |     |
| TWET 45. DEG F     | 1000   | 45.8   | 47.6   | 48.1   | 51.1   | 52.9   | 54.5   | 55.7   | 56.0   | 55.3   | 52.4   | 44.4 |     |     |     |     |
| (280. DEG K)       | 1250   | 44.2   | 44.7   | 46.3   | 51.3   | 53.3   | 54.3   | 56.0   | 56.6   | 55.6   | 52.9   | 44.0 |     |     |     |     |
| MACT 6.36 CM/MS    | 1500   | 44.9   | 46.3   | 51.8   | 53.1   | 55.9   | 56.8   | 57.1   | 58.1   | 58.4   | 52.9   | 44.1 |     |     |     |     |
| (1.3848 KC/MS)     | 2000   | 41.0   | 43.4   | 44.9   | 47.2   | 48.5   | 49.3   | 49.9   | 49.1   | 48.1   | 45.6   | 38.1 |     |     |     |     |
| NFA 6296. RPM      | 2500   | 41.0   | 43.2   | 45.1   | 48.3   | 49.9   | 50.9   | 49.8   | 48.7   | 48.1   | 44.3   | 37.4 |     |     |     |     |
| (659. RAD/SEC)     | 3150   | 40.1   | 41.9   | 44.3   | 47.6   | 49.3   | 51.1   | 51.8   | 51.8   | 53.4   | 46.0   | 37.9 |     |     |     |     |
| NFK 364. RPM       | 4000   | 40.5   | 42.8   | 45.5   | 48.9   | 51.9   | 53.1   | 54.5   | 55.5   | 56.0   | 49.2   | 38.7 |     |     |     |     |
| (666. RAD/SEC)     | 5000   | 40.9   | 42.5   | 46.2   | 49.3   | 51.4   | 53.8   | 57.2   | 58.3   | 57.1   | 51.2   | 40.0 |     |     |     |     |
| NFB 8823. RPM      | 6300   | 38.8   | 41.3   | 43.7   | 48.7   | 47.8   | 53.4   | 55.7   | 56.3   | 55.9   | 48.2   | 36.5 |     |     |     |     |
| (924. RAD/SEC)     | 8600   | 37.5   | 40.7   | 43.8   | 48.3   | 49.6   | 53.1   | 59.0   | 56.0   | 59.7   | 48.9   | 38.8 |     |     |     |     |
| NO. OF BLADES 15   | 10000  | 34.9   | 38.0   | 41.4   | 47.9   | 48.8   | 51.2   | 53.9   | 54.6   | 53.2   | 44.2   | 36.0 |     |     |     |     |
| FAN TIP SPEED      | 12500  | 33.0   | 35.9   | 38.7   | 45.6   | 45.8   | 46.3   | 51.1   | 50.8   | 50.3   | 40.1   | 24.2 |     |     |     |     |
| 950. FT/SEC        | 16000  | 29.3   | 28.9   | 32.7   | 43.6   | 40.3   | 39.3   | 44.7   | 45.5   | 42.7   | 31.2   | 13.1 |     |     |     |     |
|                    | 20000  | 19.7   | 23.8   | 28.1   | 40.2   | 36.2   | 39.3   | 40.3   | 40.6   | 38.2   | 23.9   | 1.4  |     |     |     |     |
|                    | 25000  | 12.0   | 16.3   | 20.8   | 36.5   | 29.4   | 31.7   | 31.5   | 36.3   | 25.8   | 9.6    |      |     |     |     |     |
|                    | 31500  |        | 4.2    | 10.2   | 21.7   | 20.2   | 22.1   | 21.0   | 18.6   | 10.8   |        |      |     |     |     |     |
|                    | 40000  |        |        |        | 4.4    | 2.7    | 4.1    | 2.8    |        |        |        |      |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| OVERALL CALCULATED |        | 58.3   | 60.0   | 61.7   | 63.5   | 64.9   | 66.1   | 67.4   | 68.2   | 67.2   | 64.0   | 59.3 |     |     |     |     |
| PN38               |        | 67.1   | 68.1   | 72.0   | 74.4   | 76.5   | 77.9   | 79.7   | 80.6   | 79.7   | 75.0   | 66.3 |     |     |     |     |

MODEL SOUND PRESSURE LEVELS 159. DFG. F. 70 PERCENT REL. HUM. EAY





MUDEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. EAT)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

PREC. 53, 62, 71, 81, 91, 101, 111, 122, 133, 145, 156, 0, 0, 0, 0, 0, 0  
 10.92, 11.08, 11.24, 11.41, 11.58, 11.75, 11.92, 12.13, 12.32, 12.52, 12.73, 13.0, 13.0, 13.0, 13.0, 13.0, 13.0

|                              |       | 53   | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 156  | 0 | 0 | 0 | 0 | 0 |
|------------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|
| SIDE LINE 200 FT.            |       |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| ( 50.95 H <sub>1</sub>       | 170   | 44.1 | 48.2 | 49.6 | 48.7 | 49.7 | 49.4 | 49.2 | 49.3 | 51.3 | 54.3 | 54.3 |   |   |   |   |   |
| VEHICLE R-55                 | 125   | 52.5 | 56.3 | 56.7 | 54.9 | 54.0 | 53.3 | 53.3 | 54.3 | 53.9 | 54.7 | 53.9 |   |   |   |   |   |
| CONFIG 25                    | 100   | 48.2 | 50.0 | 50.4 | 51.6 | 51.9 | 51.5 | 53.0 | 53.0 | 54.3 | 54.8 | 53.6 |   |   |   |   |   |
| LOC SCHENECTADY              | 200   | 46.8 | 47.9 | 49.1 | 51.0 | 52.8 | 54.4 | 54.7 | 56.1 | 55.5 | 56.4 | 54.9 |   |   |   |   |   |
| DATE 12/13/74                | 270   | 50.7 | 52.3 | 53.7 | 54.7 | 55.7 | 55.6 | 56.3 | 56.7 | 55.8 | 55.7 | 55.5 |   |   |   |   |   |
| RUN 30/3                     | 315   | 31.6 | 53.5 | 54.4 | 55.6 | 56.2 | 56.3 | 55.7 | 55.9 | 55.0 | 55.3 | 52.8 |   |   |   |   |   |
| TARE                         | 450   | 49.8 | 51.6 | 52.3 | 53.7 | 54.1 | 53.9 | 54.8 | 55.3 | 54.4 | 54.2 | 51.3 |   |   |   |   |   |
| BAR 29.9 HG                  | 500   | 47.7 | 47.3 | 50.7 | 51.9 | 53.0 | 53.9 | 54.8 | 55.9 | 55.0 | 53.8 | 50.0 |   |   |   |   |   |
| ( 1000. N/M <sup>2</sup> )   | 630   | 49.3 | 51.2 | 52.9 | 54.5 | 55.7 | 57.3 | 58.2 | 58.6 | 56.8 | 56.1 | 50.3 |   |   |   |   |   |
| TAMP 40 DEG F                | 830   | 51.4 | 52.5 | 54.0 | 55.2 | 57.0 | 57.7 | 58.3 | 57.9 | 56.4 | 54.8 | 49.0 |   |   |   |   |   |
| ( 282. DEG F)                | 1050  | 48.8 | 49.8 | 51.1 | 53.1 | 55.4 | 56.8 | 57.9 | 58.0 | 57.5 | 54.4 | 47.8 |   |   |   |   |   |
| INLET 45 DEG F               | 1250  | 47.2 | 48.2 | 50.5 | 53.8 | 55.6 | 56.7 | 58.3 | 58.3 | 57.3 | 54.2 | 47.0 |   |   |   |   |   |
| ( 283. DEG K)                | 1500  | 46.2 | 48.1 | 51.0 | 52.9 | 54.7 | 56.3 | 57.3 | 57.1 | 55.9 | 52.9 | 44.8 |   |   |   |   |   |
| NACT 6.96 CM/M <sup>3</sup>  | 2020  | 44.5 | 46.4 | 48.8 | 51.0 | 52.5 | 53.3 | 54.4 | 53.4 | 52.1 | 49.8 | 42.3 |   |   |   |   |   |
| ( 0.0666 KG/M <sup>3</sup> ) | 2550  | 43.7 | 46.7 | 48.9 | 51.6 | 53.1 | 53.9 | 52.4 | 52.2 | 51.4 | 47.5 | 41.4 |   |   |   |   |   |
| NFA 7062. RPM                | 3150  | 43.1 | 45.6 | 47.5 | 50.6 | 52.9 | 54.1 | 54.6 | 54.0 | 55.2 | 48.3 | 40.6 |   |   |   |   |   |
| ( 741. RAL/SEC)              | 4000  | 43.8 | 46.8 | 49.5 | 53.1 | 55.9 | 56.6 | 58.3 | 58.2 | 58.6 | 52.0 | 42.0 |   |   |   |   |   |
| MFK 7158. RPM                | 5030  | 42.9 | 46.5 | 49.0 | 52.3 | 55.4 | 55.8 | 59.7 | 60.8 | 60.1 | 52.5 | 41.8 |   |   |   |   |   |
| ( 789. RAL/SEC)              | 6300  | 41.8 | 45.5 | 47.2 | 51.7 | 53.3 | 56.1 | 58.4 | 59.8 | 58.1 | 50.2 | 38.8 |   |   |   |   |   |
| MFD 8023. RPM                | 8060  | 40.5 | 46.2 | 47.0 | 50.8 | 53.3 | 56.1 | 58.8 | 59.5 | 58.7 | 50.7 | 37.2 |   |   |   |   |   |
| ( 924. RAD/SEC)              | 10050 | 37.9 | 45.3 | 45.4 | 49.6 | 52.1 | 55.2 | 57.4 | 58.1 | 56.4 | 46.7 | 32.7 |   |   |   |   |   |
| NO. OF BLADES 15             | 12530 | 35.5 | 45.1 | 42.2 | 46.6 | 49.5 | 51.5 | 53.8 | 55.1 | 53.0 | 42.0 | 28.7 |   |   |   |   |   |
| FAN TIP SPEED                | 16030 | 27.8 | 40.9 | 38.2 | 40.9 | 43.8 | 46.5 | 48.5 | 46.0 | 45.7 | 34.2 | 15.6 |   |   |   |   |   |
| 618. FT/SEC                  | 20050 | 22.0 | 36.5 | 31.6 | 36.4 | 39.7 | 42.8 | 44.3 | 44.1 | 40.9 | 28.9 | 3.7  |   |   |   |   |   |
|                              | 25000 | 14.8 | 38.1 | 24.3 | 29.3 | 32.9 | 34.4 | 35.0 | 34.6 | 28.5 | 13.8 |      |   |   |   |   |   |
|                              | 31560 | 0.1  | 18.5 | 13.9 | 20.5 | 23.5 | 24.9 | 24.5 | 22.3 | 14.3 |      |      |   |   |   |   |   |
|                              | 40660 |      | 8.6  |      | 2.2  | 6.5  | 7.6  | 7.1  | 1.7  |      |      |      |   |   |   |   |   |
|                              | 50000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
|                              | 63030 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
|                              | 80000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| OVERALL CALCULATED           |       | 61.0 | 63.4 | 64.8 | 66.2 | 67.6 | 68.7 | 70.0 | 70.5 | 69.7 | 66.7 | 63.3 |   |   |   |   |   |
| PNDP                         |       | 70.1 | 72.9 | 75.0 | 77.7 | 79.9 | 80.9 | 82.4 | 83.1 | 82.7 | 77.2 | 69.6 |   |   |   |   |   |

IN CON. BUREAU OF AERONAUTICS, WDC, DC  
 1-78-103  
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NOISE SOUND PRESSURE LEVELS (50, DEG. F. 70 PERCENT REL. HUM. EAV)

ANGLES FROM INLET IN DEGREES (AND WAVELENGTH)

|                    |       | 53    | 62    | 71    | 81   | 91    | 101   | 111   | 122   | 133   | 145   | 150   | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|---|---|---|---|---|---|
| FREQ.              |       | 10.92 | 11.06 | 11.24 | 11.4 | 11.58 | 11.76 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50                 |       |       |       |       |      |       |       |       |       |       |       |       |   |   |   |   |   |   |
| 63                 |       |       |       |       |      |       |       |       |       |       |       |       |   |   |   |   |   |   |
| 80                 |       |       |       |       |      |       |       |       |       |       |       |       |   |   |   |   |   |   |
| SIDE LINE 200. FT. |       |       |       |       |      |       |       |       |       |       |       |       |   |   |   |   |   |   |
| (60.96 M)          | 100   | 44.1  | 48.2  | 50.1  | 50.7 | 51.8  | 52.2  | 51.9  | 52.3  | 54.5  | 57.0  | 57.5  |   |   |   |   |   |   |
| VEHICLE            | 125   | 37.5  | 54.3  | 54.2  | 54.4 | 57.0  | 56.6  | 57.1  | 57.5  | 57.2  | 57.7  | 57.1  |   |   |   |   |   |   |
| COFFIC             | 160   | 51.2  | 53.3  | 53.2  | 54.3 | 54.9  | 54.3  | 56.0  | 56.9  | 57.6  | 58.5  | 57.1  |   |   |   |   |   |   |
| LCC                | 200   | 49.6  | 50.6  | 52.3  | 54.0 | 55.8  | 57.4  | 57.7  | 59.1  | 59.2  | 59.9  | 57.9  |   |   |   |   |   |   |
| DATE               | 250   | 54.7  | 55.8  | 58.5  | 59.9 | 63.7  | 61.8  | 61.8  | 63.0  | 61.3  | 61.2  | 58.0  |   |   |   |   |   |   |
| RUN                | 315   | 55.1  | 56.2  | 57.4  | 58.6 | 59.2  | 59.0  | 59.2  | 59.4  | 58.7  | 58.6  | 58.5  |   |   |   |   |   |   |
| TAPE               | 400   | 57.3  | 54.9  | 55.3  | 56.5 | 57.3  | 57.7  | 58.1  | 58.8  | 57.9  | 57.4  | 55.5  |   |   |   |   |   |   |
| BAR                | 500   | 50.9  | 52.5  | 53.7  | 54.9 | 55.5  | 57.1  | 58.3  | 59.2  | 57.7  | 57.5  | 53.8  |   |   |   |   |   |   |
| (101000. N/M2)     | 630   | 52.1  | 53.7  | 55.4  | 57.1 | 59.4  | 59.5  | 60.9  | 60.6  | 59.4  | 57.6  | 53.3  |   |   |   |   |   |   |
| TANK               | 800   | 53.4  | 54.8  | 56.2  | 57.5 | 59.3  | 60.4  | 60.5  | 60.9  | 58.9  | 57.4  | 52.5  |   |   |   |   |   |   |
| (283. DEG K)       | 1000  | 51.3  | 52.9  | 53.8  | 56.3 | 57.9  | 59.0  | 60.2  | 60.5  | 59.5  | 58.4  | 50.6  |   |   |   |   |   |   |
| TNET               | 1250  | 49.9  | 51.0  | 53.3  | 56.0 | 57.8  | 59.2  | 59.8  | 60.3  | 59.3  | 58.2  | 50.8  |   |   |   |   |   |   |
| (280. DEG K)       | 1600  | 45.7  | 50.3  | 53.0  | 54.9 | 56.4  | 57.5  | 57.8  | 57.4  | 57.4  | 53.7  | 47.6  |   |   |   |   |   |   |
| HACT               | 2000  | 48.7  | 50.6  | 52.6  | 55.5 | 57.8  | 58.8  | 57.6  | 56.6  | 57.1  | 52.6  | 46.9  |   |   |   |   |   |   |
| (6.67 CM/PS)       | 2500  | 47.7  | 49.7  | 51.9  | 54.3 | 56.1  | 56.4  | 55.4  | 55.4  | 55.1  | 50.8  | 44.9  |   |   |   |   |   |   |
| (1.00667 CM/PS)    | 3150  | 46.4  | 48.2  | 50.3  | 52.1 | 55.6  | 56.6  | 56.1  | 56.0  | 56.0  | 50.3  | 43.1  |   |   |   |   |   |   |
| NFA                | 4000  | 47.3  | 50.1  | 52.8  | 57.4 | 59.4  | 60.2  | 61.8  | 62.0  | 63.3  | 54.7  | 44.7  |   |   |   |   |   |   |
| (824. RAD/SEC)     | 5000  | 48.2  | 48.5  | 51.7  | 54.8 | 57.4  | 58.9  | 62.7  | 61.9  | 61.7  | 54.0  | 43.8  |   |   |   |   |   |   |
| NPK                | 6300  | 44.8  | 48.3  | 50.7  | 54.2 | 56.8  | 59.1  | 61.9  | 63.3  | 60.9  | 52.2  | 41.3  |   |   |   |   |   |   |
| (832. RAD/SEC)     | 8000  | 43.3  | 47.7  | 50.0  | 53.4 | 56.6  | 58.9  | 61.0  | 62.0  | 61.7  | 52.2  | 40.0  |   |   |   |   |   |   |
| NPD                | 10000 | 41.1  | 44.0  | 45.5  | 49.1 | 53.6  | 56.4  | 60.9  | 60.9  | 58.5  | 48.5  | 35.0  |   |   |   |   |   |   |
| (924. RAD/SEC)     | 12500 | 38.3  | 44.7  | 45.7  | 49.9 | 52.8  | 55.1  | 57.4  | 58.3  | 55.3  | 45.2  | 29.7  |   |   |   |   |   |   |
| NO. OF BLADES      | 16000 | 38.9  | 40.7  | 39.5  | 44.2 | 47.4  | 50.1  | 51.8  | 52.8  | 48.2  | 38.5  | 18.4  |   |   |   |   |   |   |
| FAN TIP SPEED      | 20000 | 24.3  | 35.9  | 35.1  | 40.2 | 43.5  | 45.1  | 47.3  | 48.4  | 43.2  | 28.8  | 6.5   |   |   |   |   |   |   |
| (687. FT/SEC)      | 25000 | 16.4  | 30.4  | 28.1  | 33.1 | 36.5  | 38.5  | 39.4  | 39.6  | 33.8  | 18.7  |       |   |   |   |   |   |   |
|                    | 31500 | 2.7   | 19.9  | 17.8  | 23.6 | 27.1  | 29.0  | 28.1  | 26.2  | 17.6  |       |       |   |   |   |   |   |   |
|                    | 40000 |       | 3.3   |       | 6.6  | 9.6   | 11.5  | 10.4  | 5.4   |       |       |       |   |   |   |   |   |   |
|                    | 50000 |       |       |       |      |       |       |       |       |       |       |       |   |   |   |   |   |   |
|                    | 63000 |       |       |       |      |       |       |       |       |       |       |       |   |   |   |   |   |   |
|                    | 80000 |       |       |       |      |       |       |       |       |       |       |       |   |   |   |   |   |   |
| OVERALL CALCULATED |       | 63.9  | 65.5  | 67.1  | 69.1 | 70.7  | 71.8  | 73.0  | 73.6  | 72.6  | 69.8  | 66.8  |   |   |   |   |   |   |
| PA3B               |       | 73.4  | 75.8  | 78.0  | 81.2 | 83.1  | 84.1  | 85.4  | 85.6  | 85.7  | 79.9  | 72.9  |   |   |   |   |   |   |

433  
 1-28-74  
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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (50, DFG, F, 70 PERCENT DEL, NUM, EAT)

PRCC. DATE - MONTH 12 DAY 16 YR. 1968

ANGLES FROM TALEY IN DEGREES (AND MAGNITUDE)

|                     | 53      | 62      | 71      | 81      | 91      | 101     | 111     | 122     | 133     | 145     | 155     | 0.   | 0. | 0. | 0. | 0. | PHL   |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|----|----|----|----|-------|
| FREQ.               | (10.22) | (11.08) | (11.24) | (11.41) | (11.58) | (11.76) | (11.94) | (12.13) | (12.32) | (12.52) | (12.73) | 0.   | 0. | 0. | 0. | 0. | PHL   |
| RADIAL 17. FT.      | 56      |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |       |
|                     | 63      |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |       |
|                     | 80      |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |       |
| VEHICLE (S. H.)     | 100     | 71.0    | 73.1    | 74.4    | 75.3    | 74.6    | 74.4    | 74.6    | 75.6    | 79.1    | 84.2    | 88.0 |    |    |    |    | 113.5 |
| CONFIG R-55         | 125     | 77.3    | 77.6    | 76.4    | 74.4    | 78.4    | 79.1    | 79.9    | 80.9    | 81.0    | 83.7    | 87.6 |    |    |    |    | 114.8 |
| LCC SCHEMECTARY     | 160     | 75.5    | 76.1    | 76.1    | 76.4    | 77.4    | 78.9    | 78.9    | 80.6    | 82.4    | 84.7    | 87.6 |    |    |    |    | 114.6 |
| DATE 12/13/74       | 200     | 74.5    | 74.6    | 75.1    | 76.1    | 77.9    | 79.9    | 80.3    | 82.6    | 83.6    | 86.2    | 89.0 |    |    |    |    | 115.0 |
| RUN 30/5            | 250     | 50.0    | 79.6    | 81.9    | 82.3    | 83.1    | 84.3    | 85.3    | 86.8    | 86.4    | 87.9    | 89.3 |    |    |    |    | 119.1 |
| TYPE                | 315     | 77.4    | 79.3    | 80.6    | 80.9    | 81.1    | 81.9    | 81.9    | 82.9    | 83.8    | 85.4    | 87.5 |    |    |    |    | 118.7 |
| SAR 29.0 MC         | 400     | 75.3    | 78.3    | 78.6    | 79.1    | 79.4    | 79.9    | 81.1    | 82.6    | 82.6    | 84.7    | 86.8 |    |    |    |    | 115.6 |
| (101000-4/M2)       | 500     | 76.1    | 76.3    | 77.1    | 77.3    | 78.6    | 80.1    | 81.6    | 82.9    | 83.4    | 84.2    | 85.1 |    |    |    |    | 115.2 |
| TAMU 4y. DEC P      | 630     | 77.3    | 77.3    | 78.6    | 79.5    | 80.9    | 82.7    | 84.1    | 85.4    | 84.6    | 84.7    | 85.1 |    |    |    |    | 116.8 |
| (283 DEC K)         | 800     | 82.1    | 80.6    | 82.6    | 81.4    | 82.6    | 83.7    | 85.1    | 85.4    | 85.0    | 85.3    | 86.1 |    |    |    |    | 118.1 |
| T-ET 45. DEC P      | 1000    | 77.6    | 77.3    | 78.3    | 79.4    | 80.7    | 82.2    | 83.3    | 85.1    | 85.1    | 84.2    | 83.3 |    |    |    |    | 116.3 |
| (280 DEC K)         | 1250    | 74.9    | 75.8    | 77.1    | 79.4    | 80.4    | 82.2    | 83.6    | 85.1    | 85.1    | 84.0    | 82.0 |    |    |    |    | 116.3 |
| MACT (8.67 CM/MS)   | 1600    | 74.4    | 75.4    | 76.8    | 78.2    | 79.5    | 80.9    | 81.3    | 82.8    | 83.2    | 81.8    | 81.1 |    |    |    |    | 114.5 |
| (100000 KC/MS)      | 2000    | 74.6    | 75.4    | 76.5    | 77.5    | 80.3    | 82.4    | 81.6    | 81.1    | 83.4    | 81.3    | 80.3 |    |    |    |    | 114.7 |
| NFA 7865. RPM       | 2500    | 73.8    | 74.3    | 76.3    | 78.3    | 79.7    | 79.7    | 79.5    | 80.3    | 81.1    | 79.8    | 79.0 |    |    |    |    | 113.2 |
| (823. RAD/SEC)      | 3150    | 73.1    | 74.1    | 75.0    | 77.3    | 79.2    | 80.4    | 80.5    | 81.5    | 82.4    | 79.2    | 77.0 |    |    |    |    | 113.5 |
| MFK 7942. RPM       | 4000    | 74.3    | 76.6    | 78.0    | 81.3    | 83.4    | 84.1    | 86.7    | 87.9    | 90.8    | 84.9    | 80.7 |    |    |    |    | 119.4 |
| (832. RAD/SEC)      | 5000    | 73.0    | 76.5    | 77.1    | 79.5    | 81.4    | 83.1    | 87.3    | 88.3    | 89.5    | 84.4    | 80.4 |    |    |    |    | 116.9 |
| MFD 8923. RPM       | 6300    | 73.3    | 78.1    | 78.6    | 79.3    | 81.0    | 84.0    | 87.6    | 88.1    | 89.2    | 84.1    | 79.7 |    |    |    |    | 119.3 |
| (974. RAD/SEC)      | 8000    | 73.2    | 79.0    | 76.9    | 79.6    | 82.2    | 84.9    | 87.8    | 90.1    | 92.3    | 86.5    | 81.0 |    |    |    |    | 120.8 |
| NO. OF BLADES 15    | 10000   | 73.9    | 79.8    | 77.4    | 80.9    | 83.2    | 86.0    | 88.8    | 91.1    | 91.2    | 85.2    | 80.7 |    |    |    |    | 121.1 |
| FAH TIP SPEED 16000 | 12500   | 75.4    | 81.2    | 77.7    | 80.6    | 83.4    | 85.1    | 88.7    | 90.6    | 90.8    | 85.6    | 80.9 |    |    |    |    | 121.0 |
| 687. FT/SEC         | 16000   | 73.1    | 79.4    | 75.1    | 77.5    | 81.5    | 83.3    | 86.5    | 89.1    | 88.0    | 82.6    | 78.8 |    |    |    |    | 119.5 |
|                     | 20000   | 72.4    | 78.2    | 75.7    | 78.4    | 81.6    | 83.9    | 86.9    | 90.0    | 90.5    | 83.9    | 79.5 |    |    |    |    | 120.8 |
|                     | 25000   | 74.2    | 80.1    | 76.1    | 77.9    | 81.7    | 83.7    | 87.0    | 89.7    | 90.3    | 83.6    | 79.2 |    |    |    |    | 121.3 |
|                     | 31500   | 73.2    | 76.2    | 76.1    | 79.7    | 82.6    | 84.3    | 85.9    | 88.4    | 88.1    | 81.6    | 77.0 |    |    |    |    | 121.1 |
|                     | 40000   | 73.9    | 74.8    | 75.7    | 77.0    | 80.2    | 81.6    | 84.2    | 85.5    | 85.1    | 80.3    | 73.3 |    |    |    |    | 120.1 |
|                     | 50000   | 76.5    | 75.6    | 77.3    | 77.1    | 77.9    | 80.0    | 81.5    | 81.3    | 81.1    | 77.9    | 72.0 |    |    |    |    | 119.3 |
|                     | 63000   | 79.2    | 76.8    | 78.0    | 77.5    | 77.2    | 78.1    | 78.5    | 77.4    | 76.8    | 76.0    | 73.9 |    |    |    |    | 120.6 |
|                     | 80000   | 83.9    | 79.4    | 82.4    | 79.5    | 79.8    | 80.2    | 80.2    | 79.5    | 77.0    | 76.0    | 77.3 |    |    |    |    | 127.2 |
| OVERALL MEASURED    |         |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |       |
| OVERALL CALCULATED  | 91.7    | 92.6    | 92.8    | 94.0    | 95.6    | 97.2    | 99.4    | 101.2   | 101.8   | 98.7    | 96.7    |      |    |    |    |    | 124.1 |
| PHL                 | 100.3   | 102.2   | 102.9   | 105.2   | 106.9   | 109.1   | 110.1   | 111.5   | 113.0   | 109.5   | 107.0   |      |    |    |    |    |       |

ANGLES FROM INLET IN DEGREES (AND RADJANS)

|                        | 53     | 64     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 150    | 0.   | 0. | 0. | 0. | 0. |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|
| FREQ.                  | (6.92) | (1.38) | (1.24) | (1.41) | (1.38) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.   | 0. | 0. | 0. | 0. |
| SIDE LINE 200. FT.     | 50     | 63     | 80     |        |        |        |        |        |        |        |        |      |    |    |    |    |
| VEHICLE 4-52           | 130    | 47.3   | 50.3   | 52.3   | 53.2   | 53.0   | 52.6   | 52.4   | 52.6   | 54.7   | 57.7   | 58.0 |    |    |    |    |
| CONFIG 25              | 125    | 53.5   | 54.8   | 54.2   | 54.6   | 56.7   | 57.3   | 57.6   | 57.7   | 57.4   | 57.0   | 57.3 |    |    |    |    |
| LOC SCHEMECTAC         | 200    | 51.6   | 53.2   | 53.0   | 54.0   | 55.6   | 55.0   | 56.5   | 57.4   | 57.8   | 57.9   | 57.1 |    |    |    |    |
| DATE 12/15/74          | 250    | 50.5   | 51.6   | 52.0   | 54.2   | 56.1   | 57.0   | 57.9   | 59.3   | 58.0   | 59.2   | 58.1 |    |    |    |    |
| RPM 37/5               | 250    | 55.9   | 56.5   | 59.4   | 60.0   | 61.2   | 62.3   | 62.8   | 63.4   | 61.5   | 60.0   | 58.4 |    |    |    |    |
| TYPE                   | 315    | 59.6   | 56.6   | 58.1   | 58.8   | 59.1   | 59.7   | 59.2   | 59.3   | 59.7   | 58.2   | 56.5 |    |    |    |    |
| BAR 29.0 HG            | 400    | 54.0   | 55.0   | 56.0   | 57.0   | 57.3   | 57.7   | 58.4   | 59.0   | 57.5   | 57.3   | 55.2 |    |    |    |    |
| 101000 RPM             | 530    | 51.7   | 53.4   | 54.4   | 55.6   | 56.5   | 57.0   | 58.4   | 59.1   | 58.2   | 58.0   | 53.5 |    |    |    |    |
| TANK 40. DEG F         | 630    | 52.8   | 54.3   | 55.0   | 57.3   | 58.7   | 60.2   | 61.2   | 61.5   | 59.3   | 57.0   | 53.2 |    |    |    |    |
| 1200. DEG F            | 700    | 57.4   | 57.0   | 59.7   | 59.9   | 60.3   | 61.1   | 62.0   | 61.4   | 60.4   | 57.5   | 53.9 |    |    |    |    |
| INLET 45. DEG F        | 1000   | 52.0   | 53.6   | 55.3   | 56.8   | 58.4   | 59.5   | 60.1   | 61.0   | 59.4   | 58.0   | 58.0 |    |    |    |    |
| 1200. DEG F            | 1250   | 49.0   | 51.7   | 53.9   | 54.7   | 57.8   | 59.4   | 60.2   | 60.0   | 58.3   | 55.6   | 50.0 |    |    |    |    |
| MACT 0.57 CM/RS        | 1400   | 49.2   | 51.3   | 53.5   | 55.3   | 56.7   | 58.0   | 57.0   | 58.1   | 57.3   | 53.8   | 47.8 |    |    |    |    |
| (1.00007 CM/RS)        | 2000   | 42.2   | 51.1   | 53.0   | 55.7   | 57.5   | 59.3   | 57.9   | 58.0   | 57.0   | 52.4   | 46.0 |    |    |    |    |
| MFA 7000. RPM          | 2500   | 47.9   | 50.4   | 52.6   | 55.5   | 56.6   | 56.4   | 55.6   | 55.4   | 54.5   | 50.4   | 44.8 |    |    |    |    |
| ( 823. RAD/SEC)        | 3150   | 47.1   | 49.3   | 51.0   | 53.8   | 55.8   | 56.8   | 56.3   | 56.3   | 55.0   | 49.4   | 42.0 |    |    |    |    |
| MFK 7042. RPM          | 4000   | 47.7   | 51.3   | 53.5   | 57.3   | 59.6   | 60.1   | 62.0   | 62.2   | 63.2   | 56.3   | 44.7 |    |    |    |    |
| ( 823. RAD/SEC)        | 5000   | 46.1   | 51.0   | 52.4   | 55.3   | 57.4   | 58.0   | 62.5   | 62.3   | 61.5   | 53.0   | 43.7 |    |    |    |    |
| MFB 8023. RPM          | 6300   | 45.3   | 51.7   | 51.1   | 54.9   | 57.5   | 58.0   | 61.9   | 63.3   | 64.3   | 51.0   | 41.2 |    |    |    |    |
| ( 924. RAD/SEC)        | 8000   | 44.0   | 51.4   | 50.3   | 53.6   | 56.3   | 58.0   | 61.0   | 61.0   | 61.0   | 52.3   | 39.7 |    |    |    |    |
| NO. OF BLADES IS 12500 | 10000  | 42.9   | 50.3   | 49.2   | 53.3   | 55.9   | 58.4   | 60.4   | 61.1   | 58.6   | 48.4   | 36.5 |    |    |    |    |
| VAN TIP SPEED 16630    | 12500  | 41.5   | 49.4   | 47.2   | 50.9   | 53.6   | 55.3   | 57.9   | 58.0   | 55.0   | 44.0   | 29.9 |    |    |    |    |
| 667. FT/SEC            | 25000  | 27.6   | 36.8   | 36.3   | 40.2   | 43.7   | 45.5   | 47.1   | 47.4   | 43.1   | 28.1   | 8.7  |    |    |    |    |
|                        | 31500  | 20.9   | 30.0   | 29.6   | 33.8   | 37.0   | 38.5   | 39.9   | 39.1   | 33.5   | 18.0   |      |    |    |    |    |
|                        | 40000  | 7.2    | 15.0   | 19.0   | 24.0   | 28.1   | 29.0   | 28.1   | 28.0   | 17.3   |        |      |    |    |    |    |
|                        | 50000  |        |        | 2.0    | 7.8    | 10.9   | 11.4   | 10.4   | 5.3    |        |        |      |    |    |    |    |
|                        | 63000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |
|                        | 80000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |
| OVERALL CALCULATED     |        | 65.0   | 66.0   | 68.1   | 69.0   | 71.0   | 72.2   | 73.2   | 73.0   | 72.6   | 66.4   | 67.0 |    |    |    |    |
| 2000                   |        | 74.2   | 77.1   | 78.8   | 81.5   | 83.3   | 84.3   | 85.6   | 85.0   | 88.7   | 79.9   | 72.0 |    |    |    |    |

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| PARAMETER          | ANGLE FROM INLET TO EXHAUST (AFT WARD) |            |            |            |            |            |            |            |            |            |            |            |            |            |
|--------------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                    | 53                                     | 62         | 71         | 81         | 91         | 101        | 111        | 122        | 133        | 145        | 159        | 170        | 180        | 190        |
| FREQ. (0.92)       | (1.38)                                 | (2.14)     | (3.14)     | (4.50)     | (6.35)     | (8.91)     | (12.57)    | (17.81)    | (25.12)    | (35.48)    | (49.75)    | (69.12)    | (94.79)    | (130.17)   |
| SIZE, INCH         | 50                                     | 63         | 80         | 100        | 125        | 160        | 200        | 250        | 315        | 400        | 500        | 630        | 800        | 1000       |
| VEHICLE            | 160                                    | 175        | 180        | 185        | 190        | 195        | 200        | 205        | 210        | 215        | 220        | 225        | 230        | 235        |
| CONFIG             | 25                                     | 25         | 25         | 25         | 25         | 25         | 25         | 25         | 25         | 25         | 25         | 25         | 25         | 25         |
| LOC                | 260                                    | 260        | 260        | 260        | 260        | 260        | 260        | 260        | 260        | 260        | 260        | 260        | 260        | 260        |
| DATE               | 12/13/74                               | 12/13/74   | 12/13/74   | 12/13/74   | 12/13/74   | 12/13/74   | 12/13/74   | 12/13/74   | 12/13/74   | 12/13/74   | 12/13/74   | 12/13/74   | 12/13/74   | 12/13/74   |
| RUN                | 30/6                                   | 30/6       | 30/6       | 30/6       | 30/6       | 30/6       | 30/6       | 30/6       | 30/6       | 30/6       | 30/6       | 30/6       | 30/6       | 30/6       |
| TYPE               | 400                                    | 400        | 400        | 400        | 400        | 400        | 400        | 400        | 400        | 400        | 400        | 400        | 400        | 400        |
| BAR                | 20.0 MC                                | 20.0 MC    | 20.0 MC    | 20.0 MC    | 20.0 MC    | 20.0 MC    | 20.0 MC    | 20.0 MC    | 20.0 MC    | 20.0 MC    | 20.0 MC    | 20.0 MC    | 20.0 MC    | 20.0 MC    |
| (1000. K/M2)       | 630                                    | 630        | 630        | 630        | 630        | 630        | 630        | 630        | 630        | 630        | 630        | 630        | 630        | 630        |
| TAND               | 40. SEC                                | 40. SEC    | 40. SEC    | 40. SEC    | 40. SEC    | 40. SEC    | 40. SEC    | 40. SEC    | 40. SEC    | 40. SEC    | 40. SEC    | 40. SEC    | 40. SEC    | 40. SEC    |
| (203. SEC)         | 1050                                   | 1050       | 1050       | 1050       | 1050       | 1050       | 1050       | 1050       | 1050       | 1050       | 1050       | 1050       | 1050       | 1050       |
| TACT               | 45. SEC                                | 45. SEC    | 45. SEC    | 45. SEC    | 45. SEC    | 45. SEC    | 45. SEC    | 45. SEC    | 45. SEC    | 45. SEC    | 45. SEC    | 45. SEC    | 45. SEC    | 45. SEC    |
| (200. SEC)         | 1030                                   | 1030       | 1030       | 1030       | 1030       | 1030       | 1030       | 1030       | 1030       | 1030       | 1030       | 1030       | 1030       | 1030       |
| FACT               | 6.67 GM/MS                             | 6.67 GM/MS | 6.67 GM/MS | 6.67 GM/MS | 6.67 GM/MS | 6.67 GM/MS | 6.67 GM/MS | 6.67 GM/MS | 6.67 GM/MS | 6.67 GM/MS | 6.67 GM/MS | 6.67 GM/MS | 6.67 GM/MS | 6.67 GM/MS |
| (1.00667 KG/MS)    | 2000                                   | 2000       | 2000       | 2000       | 2000       | 2000       | 2000       | 2000       | 2000       | 2000       | 2000       | 2000       | 2000       | 2000       |
| NPA                | 5512. RPM                              | 5512. RPM  | 5512. RPM  | 5512. RPM  | 5512. RPM  | 5512. RPM  | 5512. RPM  | 5512. RPM  | 5512. RPM  | 5512. RPM  | 5512. RPM  | 5512. RPM  | 5512. RPM  | 5512. RPM  |
| (577. RAD/SEC)     | 4030                                   | 4030       | 4030       | 4030       | 4030       | 4030       | 4030       | 4030       | 4030       | 4030       | 4030       | 4030       | 4030       | 4030       |
| NPK                | 5500. RPM                              | 5500. RPM  | 5500. RPM  | 5500. RPM  | 5500. RPM  | 5500. RPM  | 5500. RPM  | 5500. RPM  | 5500. RPM  | 5500. RPM  | 5500. RPM  | 5500. RPM  | 5500. RPM  | 5500. RPM  |
| (593. RAD/SEC)     | 6330                                   | 6330       | 6330       | 6330       | 6330       | 6330       | 6330       | 6330       | 6330       | 6330       | 6330       | 6330       | 6330       | 6330       |
| NPD                | 8823. RPM                              | 8823. RPM  | 8823. RPM  | 8823. RPM  | 8823. RPM  | 8823. RPM  | 8823. RPM  | 8823. RPM  | 8823. RPM  | 8823. RPM  | 8823. RPM  | 8823. RPM  | 8823. RPM  | 8823. RPM  |
| (924. RAD/SEC)     | 10060                                  | 10060      | 10060      | 10060      | 10060      | 10060      | 10060      | 10060      | 10060      | 10060      | 10060      | 10060      | 10060      | 10060      |
| NO. OF BLADES      | 15                                     | 15         | 15         | 15         | 15         | 15         | 15         | 15         | 15         | 15         | 15         | 15         | 15         | 15         |
| TAN TIP SPEED      | 16000                                  | 16000      | 16000      | 16000      | 16000      | 16000      | 16000      | 16000      | 16000      | 16000      | 16000      | 16000      | 16000      | 16000      |
| 401. FT/SEC        | 25000                                  | 25000      | 25000      | 25000      | 25000      | 25000      | 25000      | 25000      | 25000      | 25000      | 25000      | 25000      | 25000      | 25000      |
| OVERALL CORR. FACT | 50.5                                   | 50.5       | 50.5       | 50.5       | 50.5       | 50.5       | 50.5       | 50.5       | 50.5       | 50.5       | 50.5       | 50.5       | 50.5       | 50.5       |
| PHSD               | 64.7                                   | 66.0       | 69.0       | 71.0       | 74.0       | 76.0       | 76.2       | 77.3       | 76.8       | 73.0       | 63.4       |            |            |            |

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PAGE 1 FULL SCALE TEST RESULTS

MODEL SOUND PRESSURE LEVELS 150. WTS. FOR 70 PERCENT DEL. NOM. (AVG)  
 70% DEL. = NOM. BY DAY 17 No. 10.0

|                    | 71       | 81   | 91   | 101   | 111   | 121   | 131   | 141   | 151   | 161  | 171 | 181 | 191 | 201 | 211 | 221 | 231 | 241 | 251 |       |
|--------------------|----------|------|------|-------|-------|-------|-------|-------|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| VEHICLE            | 125      | 71.6 | 82.7 | 21.9  | 89.2  | 67.0  | 76.9  | 71.0  | 73.0  | 75.1 |     |     |     |     |     |     |     |     |     | 112.7 |
| COFFIC             | 150      | 66.1 | 66.7 | 67.2  | 64.9  | 60.1  | 70.7  | 71.2  | 73.1  | 74.4 |     |     |     |     |     |     |     |     |     | 104.3 |
| LCC                | 200      | 69.1 | 67.2 | 69.0  | 70.1  | 72.0  | 72.4  | 73.0  | 75.3  | 76.4 |     |     |     |     |     |     |     |     |     | 103.2 |
| DATE               | 250      | 69.6 | 68.6 | 70.4  | 70.9  | 72.1  | 73.1  | 72.7  | 74.6  | 75.1 |     |     |     |     |     |     |     |     |     | 103.9 |
| RUN                | 315      | 70.1 | 71.2 | 70.9  | 71.2  | 71.1  | 72.4  | 72.2  | 73.0  | 73.6 |     |     |     |     |     |     |     |     |     | 105.2 |
| TARE               | 400      | 68.4 | 68.7 | 69.1  | 70.2  | 70.6  | 72.0  | 72.2  | 73.0  | 74.1 |     |     |     |     |     |     |     |     |     | 104.7 |
| BAR                | 500      | 66.4 | 66.2 | 68.4  | 69.9  | 71.1  | 73.9  | 73.0  | 74.6  | 73.1 |     |     |     |     |     |     |     |     |     | 100.0 |
| 100200             | 630      | 69.1 | 70.4 | 71.7  | 73.2  | 74.9  | 76.7  | 75.2  | 79.6  | 73.6 |     |     |     |     |     |     |     |     |     | 107.3 |
| TARE               | 800      | 72.1 | 71.2 | 72.9  | 73.7  | 74.4  | 75.4  | 76.0  | 76.1  | 75.1 |     |     |     |     |     |     |     |     |     | 107.7 |
| 1200               | 1000     | 67.4 | 64.4 | 68.3  | 71.7  | 73.3  | 75.1  | 74.2  | 74.3  | 72.1 |     |     |     |     |     |     |     |     |     | 104.5 |
| TARE               | 1250     | 66.1 | 70.2 | 70.7  | 72.2  | 75.3  | 76.4  | 79.0  | 80.1  | 74.1 |     |     |     |     |     |     |     |     |     | 100.1 |
| 1200               | 1500     | 64.9 | 67.0 | 69.0  | 69.7  | 70.4  | 73.0  | 73.2  | 75.1  | 69.0 |     |     |     |     |     |     |     |     |     | 104.5 |
| NACT               | 2000     | 64.1 | 65.6 | 66.7  | 70.2  | 66.3  | 66.9  | 68.2  | 76.1  | 67.3 |     |     |     |     |     |     |     |     |     | 101.0 |
| 1-30750            | 2500     | 64.6 | 67.9 | 69.2  | 70.2  | 70.0  | 69.7  | 70.9  | 70.5  | 67.4 |     |     |     |     |     |     |     |     |     | 102.0 |
| NFA                | 3150     | 67.6 | 64.8 | 68.0  | 69.7  | 70.7  | 69.3  | 70.4  | 70.1  | 65.0 |     |     |     |     |     |     |     |     |     | 102.2 |
| 1 573              | 4000     | 64.6 | 66.6 | 69.2  | 71.9  | 73.9  | 77.7  | 76.1  | 73.0  | 60.7 |     |     |     |     |     |     |     |     |     | 100.9 |
| NPK                | 5000     | 63.4 | 65.8 | 66.4  | 71.1  | 74.1  | 76.1  | 76.4  | 75.5  | 69.6 |     |     |     |     |     |     |     |     |     | 100.5 |
| 1 579              | 6300     | 66.1 | 69.1 | 71.5  | 72.1  | 73.1  | 80.2  | 80.0  | 78.4  | 79.7 |     |     |     |     |     |     |     |     |     | 113.3 |
| NFD                | 8000     | 69.1 | 73.1 | 75.9  | 74.9  | 81.1  | 81.0  | 83.1  | 80.5  | 74.9 |     |     |     |     |     |     |     |     |     | 113.1 |
| 1 624              | 10000    | 72.4 | 67.3 | 62.2  | 96.4  | 87.3  | 92.4  | 88.7  | 88.1  | 82.1 |     |     |     |     |     |     |     |     |     | 120.4 |
| NO. OF BLADES      | 15 17500 | 72.4 | 63.4 | 67.0  | 89.1  | 83.1  | 87.1  | 86.0  | 83.4  | 78.0 |     |     |     |     |     |     |     |     |     | 120.3 |
| FOR TIP SPEED      | 18000    | 67.5 | 75.8 | 70.2  | 80.2  | 82.3  | 83.9  | 83.0  | 79.9  | 74.2 |     |     |     |     |     |     |     |     |     | 119.0 |
| 490. FT/SEC        | 20000    | 66.3 | 71.1 | 74.7  | 78.3  | 80.5  | 82.4  | 83.7  | 79.4  | 73.1 |     |     |     |     |     |     |     |     |     | 114.0 |
| 25000              | 25000    | 65.6 | 66.0 | 71.2  | 73.3  | 75.9  | 78.3  | 79.2  | 76.1  | 69.3 |     |     |     |     |     |     |     |     |     | 110.4 |
| 31500              | 31500    | 64.4 | 67.7 | 70.9  | 73.6  | 75.2  | 77.5  | 78.4  | 74.5  | 67.4 |     |     |     |     |     |     |     |     |     | 110.0 |
| 38000              | 38000    | 63.9 | 65.9 | 67.9  | 70.5  | 72.9  | 74.5  | 75.4  | 72.1  | 63.6 |     |     |     |     |     |     |     |     |     | 109.2 |
| 50000              | 50000    | 66.6 | 67.6 | 67.2  | 69.7  | 73.2  | 70.9  | 71.2  | 69.5  | 63.4 |     |     |     |     |     |     |     |     |     | 108.6 |
| 63000              | 63000    | 66.9 | 68.5 | 67.7  | 70.1  | 68.9  | 64.5  | 67.4  | 67.0  | 64.4 |     |     |     |     |     |     |     |     |     | 110.0 |
| 80000              | 80000    | 72.5 | 69.4 | 69.6  | 70.3  | 76.3  | 69.0  | 66.0  | 66.0  | 67.4 |     |     |     |     |     |     |     |     |     | 110.1 |
| OVERALL MEASURES   |          |      |      |       |       |       |       |       |       |      |     |     |     |     |     |     |     |     |     |       |
| OVERALL CALCULATED |          | 67.0 | 66.6 | 64.3  | 67.2  | 66.5  | 65.4  | 64.3  | 62.2  | 60.0 |     |     |     |     |     |     |     |     |     | 109.1 |
| FOR                |          | 66.8 | 69.1 | 102.5 | 105.8 | 106.8 | 104.4 | 102.0 | 101.7 | 96.3 |     |     |     |     |     |     |     |     |     |       |

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| SIDE, IN. 200. FT.  | 32    | 64   | 96   | 128  | 160  | 192  | 224  | 256  | 288  | 320  | 352  | 384  | 416  | 448   | 480   | WHEELS (1000 RADIANS) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
|---------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|                     |       |      |      |      |      |      |      |      |      |      |      |      |      |       |       | 0                     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 0     | 1     | 2     | 3     | 4     |       |       |       |       |       |       |       |       |       |      |
| VEHICLE BODY        | 125   | 62.5 | 63.5 | 63.5 | 64.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0  | 65.0  | 65.0                  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  |       |       |      |
| CRACK               | 180   | 43.0 | 44.0 | 45.0 | 46.0 | 47.0 | 48.0 | 49.0 | 50.0 | 51.0 | 52.0 | 53.0 | 54.0 | 55.0  | 56.0  | 57.0                  | 58.0  | 59.0  | 60.0  | 61.0  | 62.0  | 63.0  | 64.0  | 65.0  | 66.0  | 67.0  | 68.0  | 69.0  | 70.0  | 71.0  | 72.0  | 73.0  | 74.0  | 75.0  | 76.0  | 77.0  | 78.0  | 79.0  |       |      |
| LOC. CONNECTOR      | 260   | 43.0 | 43.2 | 43.5 | 43.8 | 44.2 | 44.6 | 45.0 | 45.4 | 45.8 | 46.2 | 46.6 | 47.0 | 47.4  | 47.8  | 48.2                  | 48.6  | 49.0  | 49.4  | 49.8  | 50.2  | 50.6  | 51.0  | 51.4  | 51.8  | 52.2  | 52.6  | 53.0  | 53.4  | 53.8  | 54.2  | 54.6  | 55.0  | 55.4  | 55.8  | 56.2  | 56.6  | 57.0  | 57.4  |      |
| DATE 12/12/74       | 275   | 47.2 | 47.6 | 48.0 | 48.5 | 49.0 | 49.5 | 50.0 | 50.5 | 51.0 | 51.5 | 52.0 | 52.5 | 53.0  | 53.5  | 54.0                  | 54.5  | 55.0  | 55.5  | 56.0  | 56.5  | 57.0  | 57.5  | 58.0  | 58.5  | 59.0  | 59.5  | 60.0  | 60.5  | 61.0  | 61.5  | 62.0  | 62.5  | 63.0  | 63.5  | 64.0  | 64.5  | 65.0  | 65.5  |      |
| RAW 30/4            | 315   | 47.6 | 48.1 | 48.6 | 49.0 | 49.5 | 50.0 | 50.5 | 51.0 | 51.5 | 52.0 | 52.5 | 53.0 | 53.5  | 54.0  | 54.5                  | 55.0  | 55.5  | 56.0  | 56.5  | 57.0  | 57.5  | 58.0  | 58.5  | 59.0  | 59.5  | 60.0  | 60.5  | 61.0  | 61.5  | 62.0  | 62.5  | 63.0  | 63.5  | 64.0  | 64.5  | 65.0  | 65.5  | 66.0  |      |
| TANK                | 450   | 48.3 | 48.5 | 48.7 | 48.9 | 49.1 | 49.3 | 49.5 | 49.7 | 49.9 | 50.1 | 50.3 | 50.5 | 50.7  | 50.9  | 51.1                  | 51.3  | 51.5  | 51.7  | 51.9  | 52.1  | 52.3  | 52.5  | 52.7  | 52.9  | 53.1  | 53.3  | 53.5  | 53.7  | 53.9  | 54.1  | 54.3  | 54.5  | 54.7  | 54.9  | 55.1  | 55.3  | 55.5  | 55.7  | 55.9 |
| BAR 20.7 MC         | 560   | 53.7 | 53.9 | 54.2 | 54.4 | 54.6 | 54.8 | 55.0 | 55.2 | 55.4 | 55.6 | 55.8 | 56.0 | 56.2  | 56.4  | 56.6                  | 56.8  | 57.0  | 57.2  | 57.4  | 57.6  | 57.8  | 58.0  | 58.2  | 58.4  | 58.6  | 58.8  | 59.0  | 59.2  | 59.4  | 59.6  | 59.8  | 60.0  | 60.2  | 60.4  | 60.6  | 60.8  | 61.0  | 61.2  | 61.4 |
| 100200. 2/221       | 630   | 46.4 | 46.1 | 45.8 | 45.5 | 45.2 | 44.9 | 44.6 | 44.3 | 44.0 | 43.7 | 43.4 | 43.1 | 42.8  | 42.5  | 42.2                  | 41.9  | 41.6  | 41.3  | 41.0  | 40.7  | 40.4  | 40.1  | 39.8  | 39.5  | 39.2  | 38.9  | 38.6  | 38.3  | 38.0  | 37.7  | 37.4  | 37.1  | 36.8  | 36.5  | 36.2  | 35.9  | 35.6  | 35.3  |      |
| TANK 40. DEG F      | 660   | 49.2 | 48.7 | 48.3 | 47.9 | 47.5 | 47.1 | 46.7 | 46.3 | 45.9 | 45.5 | 45.1 | 44.7 | 44.3  | 43.9  | 43.5                  | 43.1  | 42.7  | 42.3  | 41.9  | 41.5  | 41.1  | 40.7  | 40.3  | 39.9  | 39.5  | 39.1  | 38.7  | 38.3  | 37.9  | 37.5  | 37.1  | 36.7  | 36.3  | 35.9  | 35.5  | 35.1  | 34.7  | 34.3  |      |
| 1242. DEG F         | 1060  | 46.3 | 45.8 | 45.4 | 45.0 | 44.6 | 44.2 | 43.8 | 43.4 | 43.0 | 42.6 | 42.2 | 41.8 | 41.4  | 41.0  | 40.6                  | 40.2  | 39.8  | 39.4  | 39.0  | 38.6  | 38.2  | 37.8  | 37.4  | 37.0  | 36.6  | 36.2  | 35.8  | 35.4  | 35.0  | 34.6  | 34.2  | 33.8  | 33.4  | 33.0  | 32.6  | 32.2  | 31.8  | 31.4  |      |
| TANK 40. DEG F      | 1250  | 45.0 | 44.5 | 44.1 | 43.7 | 43.3 | 42.9 | 42.5 | 42.1 | 41.7 | 41.3 | 40.9 | 40.5 | 40.1  | 39.7  | 39.3                  | 38.9  | 38.5  | 38.1  | 37.7  | 37.3  | 36.9  | 36.5  | 36.1  | 35.7  | 35.3  | 34.9  | 34.5  | 34.1  | 33.7  | 33.3  | 32.9  | 32.5  | 32.1  | 31.7  | 31.3  | 30.9  | 30.5  | 30.1  |      |
| 1201. DEG F         | 1650  | 41.5 | 41.1 | 40.7 | 40.3 | 39.9 | 39.5 | 39.1 | 38.7 | 38.3 | 37.9 | 37.5 | 37.1 | 36.7  | 36.3  | 35.9                  | 35.5  | 35.1  | 34.7  | 34.3  | 33.9  | 33.5  | 33.1  | 32.7  | 32.3  | 31.9  | 31.5  | 31.1  | 30.7  | 30.3  | 29.9  | 29.5  | 29.1  | 28.7  | 28.3  | 27.9  | 27.5  | 27.1  | 26.7  |      |
| MCT 7.5 CM/3        | 2050  | 49.4 | 48.3 | 47.3 | 46.3 | 45.3 | 44.3 | 43.3 | 42.3 | 41.3 | 40.3 | 39.3 | 38.3 | 37.3  | 36.3  | 35.3                  | 34.3  | 33.3  | 32.3  | 31.3  | 30.3  | 29.3  | 28.3  | 27.3  | 26.3  | 25.3  | 24.3  | 23.3  | 22.3  | 21.3  | 20.3  | 19.3  | 18.3  | 17.3  | 16.3  | 15.3  | 14.3  | 13.3  | 12.3  |      |
| 1.88750 CM/3        | 2550  | 46.9 | 46.1 | 45.3 | 44.5 | 43.7 | 42.9 | 42.1 | 41.3 | 40.5 | 39.7 | 38.9 | 38.1 | 37.3  | 36.5  | 35.7                  | 34.9  | 34.1  | 33.3  | 32.5  | 31.7  | 30.9  | 30.1  | 29.3  | 28.5  | 27.7  | 26.9  | 26.1  | 25.3  | 24.5  | 23.7  | 22.9  | 22.1  | 21.3  | 20.5  | 19.7  | 18.9  | 18.1  | 17.3  |      |
| MFA 5476. MP        | 3150  | 39.3 | 41.3 | 43.0 | 44.6 | 46.1 | 47.6 | 49.0 | 50.4 | 51.8 | 53.2 | 54.6 | 56.0 | 57.4  | 58.8  | 60.2                  | 61.6  | 63.0  | 64.4  | 65.8  | 67.2  | 68.6  | 70.0  | 71.4  | 72.8  | 74.2  | 75.6  | 77.0  | 78.4  | 79.8  | 81.2  | 82.6  | 84.0  | 85.4  | 86.8  | 88.2  | 89.6  | 91.0  | 92.4  |      |
| 1 573. KAL/SEC      | 4650  | 39.3 | 42.0 | 44.0 | 46.0 | 48.0 | 50.0 | 52.0 | 54.0 | 56.0 | 58.0 | 60.0 | 62.0 | 64.0  | 66.0  | 68.0                  | 70.0  | 72.0  | 74.0  | 76.0  | 78.0  | 80.0  | 82.0  | 84.0  | 86.0  | 88.0  | 90.0  | 92.0  | 94.0  | 96.0  | 98.0  | 100.0 | 102.0 | 104.0 | 106.0 | 108.0 | 110.0 | 112.0 |       |      |
| MFA 5533. MP        | 5600  | 38.7 | 41.6 | 43.3 | 45.0 | 46.7 | 48.4 | 50.1 | 51.8 | 53.5 | 55.2 | 56.9 | 58.6 | 60.3  | 62.0  | 63.7                  | 65.4  | 67.1  | 68.8  | 70.5  | 72.2  | 73.9  | 75.6  | 77.3  | 79.0  | 80.7  | 82.4  | 84.1  | 85.8  | 87.5  | 89.2  | 90.9  | 92.6  | 94.3  | 96.0  | 97.7  | 99.4  | 101.1 | 102.8 |      |
| 1 573. KAL/SEC      | 6300  | 43.6 | 44.2 | 44.7 | 45.1 | 45.5 | 45.9 | 46.3 | 46.7 | 47.1 | 47.5 | 47.9 | 48.3 | 48.7  | 49.1  | 49.5                  | 49.9  | 50.3  | 50.7  | 51.1  | 51.5  | 51.9  | 52.3  | 52.7  | 53.1  | 53.5  | 53.9  | 54.3  | 54.7  | 55.1  | 55.5  | 55.9  | 56.3  | 56.7  | 57.1  | 57.5  | 57.9  | 58.3  | 58.7  |      |
| MFA 6023. MP        | 8060  | 42.3 | 47.1 | 50.1 | 52.9 | 55.6 | 58.3 | 61.0 | 63.7 | 66.4 | 69.1 | 71.8 | 74.5 | 77.2  | 79.9  | 82.6                  | 85.3  | 88.0  | 90.7  | 93.4  | 96.1  | 98.8  | 101.5 | 104.2 | 106.9 | 109.6 | 112.3 | 115.0 | 117.7 | 120.4 | 123.1 | 125.8 | 128.5 | 131.2 | 133.9 | 136.6 | 139.3 | 142.0 | 144.7 |      |
| 1 573. KAL/SEC      | 10030 | 54.6 | 56.4 | 58.0 | 59.6 | 61.2 | 62.8 | 64.4 | 66.0 | 67.6 | 69.2 | 70.8 | 72.4 | 74.0  | 75.6  | 77.2                  | 78.8  | 80.4  | 82.0  | 83.6  | 85.2  | 86.8  | 88.4  | 90.0  | 91.6  | 93.2  | 94.8  | 96.4  | 98.0  | 99.6  | 101.2 | 102.8 | 104.4 | 106.0 | 107.6 | 109.2 | 110.8 | 112.4 | 114.0 |      |
| NO. OF BLADES IS    | 12550 | 44.9 | 53.6 | 57.5 | 61.7 | 66.1 | 70.7 | 75.3 | 79.9 | 84.5 | 89.1 | 93.7 | 98.3 | 102.9 | 107.5 | 112.1                 | 116.7 | 121.3 | 125.9 | 130.5 | 135.1 | 139.7 | 144.3 | 148.9 | 153.5 | 158.1 | 162.7 | 167.3 | 171.9 | 176.5 | 181.1 | 185.7 | 190.3 | 194.9 | 199.5 | 204.1 | 208.7 | 213.3 | 217.9 |      |
| PER TIP SPEED       | 16650 | 37.1 | 41.3 | 45.0 | 48.7 | 52.4 | 56.1 | 59.8 | 63.5 | 67.2 | 70.9 | 74.6 | 78.3 | 82.0  | 85.7  | 89.4                  | 93.1  | 96.8  | 100.5 | 104.2 | 107.9 | 111.6 | 115.3 | 119.0 | 122.7 | 126.4 | 130.1 | 133.8 | 137.5 | 141.2 | 144.9 | 148.6 | 152.3 | 156.0 | 159.7 | 163.4 | 167.1 | 170.8 | 174.5 |      |
| 470. FT/SEC         | 20650 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 | 45.0 | 46.0 | 47.0 | 48.0 | 49.0  | 50.0  | 51.0                  | 52.0  | 53.0  | 54.0  | 55.0  | 56.0  | 57.0  | 58.0  | 59.0  | 60.0  | 61.0  | 62.0  | 63.0  | 64.0  | 65.0  | 66.0  | 67.0  | 68.0  | 69.0  | 70.0  | 71.0  | 72.0  | 73.0  |       |      |
|                     | 25650 | 10.4 | 22.9 | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.0  | 48.0  | 50.0                  | 52.0  | 54.0  | 56.0  | 58.0  | 60.0  | 62.0  | 64.0  | 66.0  | 68.0  | 70.0  | 72.0  | 74.0  | 76.0  | 78.0  | 80.0  | 82.0  | 84.0  | 86.0  | 88.0  | 90.0  | 92.0  |       |       |      |
|                     | 31500 | 7.3  | 12.6 | 16.3 | 19.2 | 22.1 | 25.0 | 27.9 | 30.8 | 33.7 | 36.6 | 39.5 | 42.4 | 45.3  | 48.2  | 51.1                  | 54.0  | 56.9  | 59.8  | 62.7  | 65.6  | 68.5  | 71.4  | 74.3  | 77.2  | 80.1  | 83.0  | 85.9  | 88.8  | 91.7  | 94.6  | 97.5  | 100.4 | 103.3 | 106.2 | 109.1 | 112.0 |       |       |      |
|                     | 40000 |      |      |      | 8.1  |      |      |      |      |      |      |      |      |       |       |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
|                     | 50000 |      |      |      |      |      |      |      |      |      |      |      |      |       |       |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
|                     | 63000 |      |      |      |      |      |      |      |      |      |      |      |      |       |       |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
|                     | 80000 |      |      |      |      |      |      |      |      |      |      |      |      |       |       |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| OVERALL CALCULATION |       | 61.7 | 64.9 | 67.7 | 69.9 | 71.3 | 72.2 | 72.8 | 73.2 | 73.5 | 73.8 | 74.1 | 74.4 | 74.7  | 75.0  | 75.3                  | 75.6  | 75.9  | 76.2  | 76.5  | 76.8  | 77.1  | 77.4  | 77.7  | 78.0  | 78.3  | 78.6  | 78.9  | 79.2  | 79.5  | 79.8  | 80.1  | 80.4  | 80.7  | 81.0  | 81.3  | 81.6  | 81.9  |       |      |
| PERCENT             |       | 70.1 | 73.6 | 76.9 | 79.4 | 80.1 | 80.9 | 81.1 | 81.3 | 81.5 | 81.7 | 81.9 | 82.1 | 82.3  | 82.5  | 82.7                  | 82.9  | 83.1  | 83.3  | 83.5  | 83.7  | 83.9  | 84.1  | 84.3  | 84.5  | 84.7  | 84.9  | 85.1  | 85.3  | 85.5  | 85.7  | 85.9  | 86.1  | 86.3  | 8     |       |       |       |       |      |

MODEL SOUND PRESSURE LEVELS (59. LFQ, F. 70 PERCENT REL. HUM. 1AY)

ANGLES FROM INLET IN DEGREES (AND RADIANE)

| FREQ.              | 71 81 91 101 111 121 131 141 151 161 171 181 191 201 |        |        |        |        |        |        |        |        |        |        | PWL |         |         |         |         |         |         |
|--------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|---------|---------|---------|---------|---------|---------|
|                    | (1.24)   | (1.51) | (1.88) | (2.35) | (2.92) | (3.60) | (4.39) | (5.30) | (6.34) | (7.52) | (8.85) |     | (10.34) | (12.00) | (13.83) | (15.84) | (18.03) | (20.41) |
| 50                 |  |        |        |        |        |        |        |        |        |        |        |     |         |         |         |         |         |         |
| 63                 |  |        |        |        |        |        |        |        |        |        |        |     |         |         |         |         |         |         |
| 80                 |  |        |        |        |        |        |        |        |        |        |        |     |         |         |         |         |         |         |
| RADIAL 17. FT.     |  |        |        |        |        |        |        |        |        |        |        |     |         |         |         |         |         |         |
| ( 5. M)            |  |        |        |        |        |        |        |        |        |        |        |     |         |         |         |         |         |         |
| VEHICLE            | 125  | 74.1   | 71.7   | 69.4   | 67.7   | 71.6   | 71.7   | 73.0   | 76.8   | 79.4   |        |     |         |         |         |         |         | 166.0   |
| CONFIG             | 125  | 72.6   | 70.7   | 72.6   | 70.4   | 71.1   | 73.2   | 74.5   | 76.3   | 79.4   |        |     |         |         |         |         |         | 167.1   |
| LCC SCHEMATA       | 200  | 69.3   | 70.2   | 71.6   | 73.4   | 74.1   | 76.1   | 77.0   | 79.6   | 81.3   |        |     |         |         |         |         |         | 169.0   |
| DATE 12/12/74      | 250  | 72.9   | 73.1   | 73.9   | 74.4   | 75.1   | 76.1   | 76.5   | 78.3   | 76.4   |        |     |         |         |         |         |         | 168.0   |
| RUN 38/5           | 315  | 73.4   | 74.7   | 74.6   | 74.7   | 74.8   | 75.4   | 76.2   | 78.3   | 79.3   |        |     |         |         |         |         |         | 169.1   |
| TYPE               | 450  | 71.4   | 71.9   | 72.1   | 73.2   | 73.9   | 74.6   | 75.5   | 77.8   | 78.1   |        |     |         |         |         |         |         | 167.8   |
| BAR 29.7 MC        | 500  | 69.6   | 73.4   | 71.4   | 72.9   | 74.4   | 75.4   | 76.2   | 77.6   | 77.1   |        |     |         |         |         |         |         | 167.7   |
| ( 102.5% RH)       | 650  | 72.1   | 72.9   | 74.7   | 75.9   | 77.6   | 78.7   | 78.2   | 78.8   | 77.4   |        |     |         |         |         |         |         | 168.1   |
| TAMP 68. DEG F     | 800  | 73.4   | 73.2   | 75.1   | 75.9   | 76.8   | 77.4   | 78.0   | 78.6   | 77.4   |        |     |         |         |         |         |         | 168.8   |
| ( 282. DEG F)      | 1000   | 69.4   | 71.2   | 72.6   | 73.6   | 75.6   | 77.4   | 78.8   | 78.3   | 75.3   |        |     |         |         |         |         |         | 168.8   |
| T-ET 45. DEG F     | 1250   | 68.4   | 70.5   | 71.4   | 73.2   | 73.3   | 76.4   | 77.5   | 78.4   | 74.0   |        |     |         |         |         |         |         | 169.2   |
| ( 206. DEG F)      | 1600   | 69.1   | 72.0   | 74.2   | 75.2   | 76.3   | 78.4   | 79.7   | 80.1   | 74.0   |        |     |         |         |         |         |         | 169.0   |
| MACT 6.97 CM/M3    | 2000   | 66.9   | 69.1   | 70.5   | 70.7   | 72.1   | 72.4   | 73.5   | 74.4   | 71.6   |        |     |         |         |         |         |         | 165.8   |
| ( 608.97 K/RH)     | 2500   | 67.8   | 70.6   | 72.2   | 73.2   | 72.3   | 71.3   | 73.0   | 73.1   | 70.5   |        |     |         |         |         |         |         | 165.3   |
| NFA 6262. RPM      | 3150   | 68.1   | 70.4   | 73.0   | 74.7   | 74.5   | 73.3   | 75.7   | 75.6   | 72.0   |        |     |         |         |         |         |         | 167.3   |
| ( 656. RAD/SEC)    | 4000   | 66.7   | 69.3   | 71.9   | 74.2   | 77.2   | 77.2   | 78.1   | 74.6   | 71.2   |        |     |         |         |         |         |         | 169.3   |
| NFK 639. RPM       | 5000   | 66.4   | 69.5   | 71.9   | 75.4   | 79.6   | 79.6   | 79.4   | 77.8   | 72.9   |        |     |         |         |         |         |         | 169.3   |
| ( 663. RAD/SEC)    | 6300   | 69.1   | 71.6   | 74.5   | 77.8   | 80.1   | 82.7   | 83.5   | 80.8   | 76.5   |        |     |         |         |         |         |         | 169.0   |
| MFD 8823. RPM      | 8000   | 70.9   | 74.4   | 76.7   | 80.2   | 82.3   | 84.9   | 85.6   | 81.9   | 76.0   |        |     |         |         |         |         |         | 169.1   |
| ( 924. RAD/SEC)    | 10000  | 68.9   | 67.4   | 62.0   | 65.5   | 61.3   | 66.6   | 62.5   | 65.6   | 61.9   |        |     |         |         |         |         |         | 164.6   |
| NO. OF BLADES 15   | 12500  | 74.2   | 79.4   | 94.1   | 96.4   | 92.4   | 91.1   | 92.9   | 88.9   | 82.8   |        |     |         |         |         |         |         | 120.4   |
| FAN TIP SPEED      | 16000  | 74.8   | 81.3   | 84.2   | 85.5   | 86.7   | 88.1   | 88.1   | 82.7   | 77.8   |        |     |         |         |         |         |         | 169.5   |
| 347. FT/SEC        | 20000  | 71.0   | 77.4   | 79.8   | 82.6   | 84.6   | 86.9   | 89.2   | 82.9   | 77.0   |        |     |         |         |         |         |         | 168.0   |
|                    | 25000  | 68.6   | 73.1   | 76.3   | 79.7   | 81.2   | 83.7   | 85.6   | 79.7   | 73.6   |        |     |         |         |         |         |         | 165.6   |
|                    | 31500  | 67.0   | 71.9   | 74.8   | 77.5   | 79.3   | 81.6   | 82.5   | 77.7   | 70.7   |        |     |         |         |         |         |         | 164.6   |
|                    | 40000  | 65.6   | 69.1   | 72.0   | 75.0   | 76.8   | 78.9   | 79.3   | 75.5   | 66.2   |        |     |         |         |         |         |         | 163.2   |
|                    | 50000  | 67.3   | 67.9   | 68.9   | 72.0   | 74.2   | 74.6   | 74.9   | 72.2   | 64.6   |        |     |         |         |         |         |         | 161.6   |
|                    | 63000  | 68.6   | 68.2   | 68.1   | 70.0   | 70.0   | 69.9   | 69.4   | 68.6   | 64.6   |        |     |         |         |         |         |         | 161.2   |
|                    | 80000  | 72.4   | 69.8   | 69.7   | 70.3   | 70.2   | 69.5   | 67.9   | 68.6   | 67.4   |        |     |         |         |         |         |         | 160.1   |
| OVERALL MEASURED   |  |        |        |        |        |        |        |        |        |        |        |     |         |         |         |         |         |         |
| OVERALL CALCULATED | 68.5   | 63.4   | 67.8   | 69.7   | 67.0   | 66.9   | 68.6   | 64.5   | 61.9   |        |        |     |         |         |         |         |         | 138.0   |
| PWDF               | 66.4   | 60.3   | 63.3   | 66.2   | 64.7   | 64.1   | 66.3   | 63.6   | 60.5   |        |        |     |         |         |         |         |         |         |

|  | 71.    | 81.    | 91.    | 101.   | 111.   | 121.   | 131.   | 141.   | 151.   | 161.   | 171.   | 181.   | 191.   | 201.   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ANGLE FROM TOWER IN DEGREE (TANK WINDWARD) | 71.    | 81.    | 91.    | 101.   | 111.   | 121.   | 131.   | 141.   | 151.   | 161.   | 171.   | 181.   | 191.   | 201.   |
| REC. (1.24)                                | (1.24) | (1.24) | (1.24) | (1.24) | (1.24) | (1.24) | (1.24) | (1.24) | (1.24) | (1.24) | (1.24) | (1.24) | (1.24) | (1.24) |
| 50   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 53   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 56   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| SIDE LINE 200. FT.                         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE R-59                               | 125    | 52.1   | 50.3   | 47.8   | 47.9   | 47.4   | 47.6   | 48.5   | 50.3   | 49.3   |        |        |        |        |
| CLASSIC 20                                 | 160    | 47.2   | 45.1   | 43.4   | 43.4   | 43.5   | 43.5   | 43.9   | 45.3   | 45.6   |        |        |        |        |
| LCC SCHEDULE 200                           | 200    | 49.6   | 49.2   | 49.8   | 51.4   | 51.7   | 51.9   | 52.2   | 52.6   | 52.6   |        |        |        |        |
| DATE 12/12/74                              | 250    | 50.5   | 51.1   | 52.0   | 52.3   | 52.6   | 52.7   | 51.6   | 51.2   | 51.2   |        |        |        |        |
| RMA 30/5                                   | 315    | 50.9   | 52.5   | 52.7   | 52.5   | 52.2   | 51.9   | 51.2   | 51.1   | 48.3   |        |        |        |        |
| TARE                                       | 430    | 47.8   | 47.7   | 50.1   | 50.9   | 51.1   | 51.0   | 50.4   | 50.4   | 48.6   |        |        |        |        |
| BAR 29.7 HG                                | 500    | 47.0   | 48.2   | 49.2   | 50.6   | 51.5   | 51.7   | 51.0   | 50.0   | 45.5   |        |        |        |        |
| (60250. 4/M2)                              | 630    | 49.4   | 50.6   | 52.4   | 53.5   | 54.7   | 54.8   | 52.9   | 51.1   | 45.5   |        |        |        |        |
| TAMP 40. DEG F                             | 660    | 50.5   | 50.7   | 52.8   | 53.4   | 53.8   | 53.7   | 52.4   | 50.6   | 45.2   |        |        |        |        |
| (282. DEG W)                               | 1000   | 46.3   | 48.6   | 50.2   | 51.3   | 52.4   | 53.2   | 52.8   | 50.2   | 42.9   |        |        |        |        |
| THEY 45. DEG F                             | 1200   | 45.2   | 47.8   | 48.8   | 50.4   | 52.0   | 52.1   | 51.6   | 49.9   | 42.0   |        |        |        |        |
| (298. DEG W)                               | 1600   | 45.8   | 49.1   | 51.4   | 52.3   | 52.8   | 53.9   | 53.8   | 51.4   | 41.6   |        |        |        |        |
| NACT 6.97 GM/MS                            | 2000   | 43.3   | 48.8   | 47.5   | 47.6   | 48.4   | 47.6   | 47.1   | 45.3   | 37.8   |        |        |        |        |
| (1.8697 KG/MS)                             | 2500   | 44.1   | 47.3   | 48.1   | 49.3   | 49.4   | 48.4   | 48.4   | 43.8   | 36.6   |        |        |        |        |
| MFA 6202. RPP                              | 3150   | 44.0   | 48.8   | 49.6   | 52.1   | 50.3   | 48.5   | 48.7   | 45.8   | 37.1   |        |        |        |        |
| ( 650. WAT/SEC)                            | 4000   | 42.3   | 45.4   | 48.1   | 50.1   | 52.5   | 51.5   | 50.5   | 44.0   | 35.2   |        |        |        |        |
| MFK 329. RPP                               | 5000   | 41.7   | 45.3   | 47.9   | 51.1   | 54.7   | 53.0   | 51.9   | 46.7   | 38.3   |        |        |        |        |
| ( 800. WAT/SEC)                            | 6300   | 43.7   | 48.7   | 49.8   | 52.9   | 54.4   | 53.8   | 52.8   | 48.2   | 38.8   |        |        |        |        |
| MFB 8023. RPP                              | 8000   | 44.3   | 48.3   | 50.8   | 54.1   | 55.5   | 56.7   | 55.2   | 47.7   | 34.7   |        |        |        |        |
| ( 1024. WAT/SEC)                           | 10000  | 52.7   | 58.8   | 64.6   | 67.9   | 62.7   | 58.6   | 59.9   | 49.6   | 36.7   |        |        |        |        |
| NO. OF BLADES 15                           | 12500  | 51.7   | 58.6   | 64.5   | 66.5   | 61.6   | 58.8   | 57.3   | 46.1   | 31.7   |        |        |        |        |
| WIND TIP SPEED 547. FT/SEC                 | 16000  | 40.4   | 47.9   | 51.1   | 57.0   | 52.0   | 51.2   | 47.4   | 35.4   | 17.4   |        |        |        |        |
| 25000                                      | 22.3   | 28.6   | 31.7   | 34.4   | 34.8   | 33.1   | 28.2   | 11.8   |        |        |        |        |        |        |
| 31500                                      | 9.9    | 16.7   | 20.2   | 22.1   | 21.5   | 19.1   | 11.8   |        |        |        |        |        |        |        |
| 40000                                      |        |        | 2.7    | 4.6    | 3.1    |        |        |        |        |        |        |        |        |        |
| 50000                                      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 63000                                      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 86000                                      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED                         |        | 62.1   | 65.7   | 69.0   | 71.4   | 68.5   | 67.2   | 68.8   | 63.0   | 58.8   |        |        |        |        |
| PAIP                                       |        | 78.9   | 75.0   | 78.1   | 80.5   | 78.7   | 78.0   | 77.2   | 72.9   | 65.1   |        |        |        |        |

100% REPRODUCIBLE FROM ORIGINAL RECORDS  
 PRINTED IN U.S.A.

442

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

FREQ. DATE - Month 12 DAY 17 No. 19,8

MODEL SOUND PRESSURE LEVELS (59. IFC, P, 70 PERCENT OEL, MUM, EAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | RADIUS | ANGLES FROM INLET IN DEGREES (AND RADIANS) |        |        |        |        |        |        |        |        |        |        |        | PWL    |        |        |        |        |
|--------------------|--------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                    |        | 71   | 91     | 91     | 111    | 111    | 121    | 131    | 141    | 151    | 161    | 171    | 181    |        | 191    | 201    | 211    | 221    |
|                    | IN     | (1.23)                                     | (1.57) | (1.57) | (1.74) | (1.74) | (1.91) | (1.91) | (2.08) | (2.08) | (2.25) | (2.25) | (2.42) | (2.42) | (2.59) | (2.59) | (2.76) | (2.76) |
|                    | 59     | 63   | 67     | 71     | 75     | 79     | 83     | 87     | 91     | 95     | 99     | 103    | 107    | 111    | 115    | 119    | 123    | 127    |
| RADIA, 17. FT.     | 63     |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| RADIA, 17. FT.     | 80     |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE 1 5. M)    | 100    | 71.7                                       | 70.7   | 71.1   | 71.4   | 70.9   | 72.4   | 75.7   | 66.6   | 82.1   |        |        |        |        |        |        |        | 109.4  |
| VEHICLE R-SS       | 125    | 78.9                                       | 78.2   | 75.6   | 73.9   | 74.6   | 77.2   | 78.5   | 60.8   | 84.1   |        |        |        |        |        |        |        | 111.6  |
| CONFIG 20          | 160    | 71.9                                       | 73.2   | 73.1   | 72.5   | 74.6   | 76.9   | 78.7   | 61.8   | 83.4   |        |        |        |        |        |        |        | 110.7  |
| LCC SCHEMECTATY    | 200    | 72.1                                       | 72.2   | 74.1   | 76.4   | 77.1   | 79.1   | 80.0   | 63.3   | 85.1   |        |        |        |        |        |        |        | 112.3  |
| DATE 12/12/74      | 250    | 75.4                                       | 78.4   | 76.9   | 77.4   | 78.5   | 79.9   | 79.7   | 62.6   | 83.6   |        |        |        |        |        |        |        | 112.8  |
| RUN 38/E           | 315    | 75.9                                       | 77.7   | 77.9   | 77.9   | 78.3   | 79.1   | 80.0   | 61.6   | 83.1   |        |        |        |        |        |        |        | 112.6  |
| TAPE               | 450    | 74.7                                       | 75.9   | 75.9   | 75.9   | 77.4   | 78.6   | 79.5   | 61.6   | 82.4   |        |        |        |        |        |        |        | 111.7  |
| BAR 29.7 MG        | 530    | 72.4                                       | 73.2   | 74.4   | 74.9   | 77.4   | 78.4   | 80.0   | 60.8   | 81.1   |        |        |        |        |        |        |        | 111.1  |
| (30268 K/1/2)      | 630    | 74.4                                       | 75.4   | 77.2   | 78.9   | 80.4   | 81.2   | 81.2   | 61.8   | 80.9   |        |        |        |        |        |        |        | 112.9  |
| TAPIN 47. DEG F    | 630    | 75.2                                       | 75.9   | 77.9   | 79.9   | 79.8   | 80.9   | 81.0   | 61.6   | 80.6   |        |        |        |        |        |        |        | 112.8  |
| (281. DEG F)       | 1000   | 72.4                                       | 74.2   | 75.4   | 76.7   | 78.3   | 79.9   | 81.0   | 60.8   | 79.3   |        |        |        |        |        |        |        | 111.5  |
| T-ET 44. DEG F     | 1250   | 71.9                                       | 73.5   | 74.9   | 76.5   | 77.8   | 79.6   | 80.2   | 60.9   | 78.6   |        |        |        |        |        |        |        | 111.1  |
| (280. DEG F)       | 1600   | 72.4                                       | 74.3   | 75.3   | 76.2   | 77.8   | 79.6   | 80.7   | 61.1   | 77.4   |        |        |        |        |        |        |        | 111.2  |
| MACT 6-69 G/H/3    | 2000   | 71.6                                       | 73.1   | 74.2   | 75.5   | 77.1   | 78.1   | 79.0   | 79.6   | 76.1   |        |        |        |        |        |        |        | 110.0  |
| (50669 K/1/3)      | 2500   | 71.4                                       | 74.1   | 75.7   | 76.2   | 75.3   | 75.3   | 77.2   | 76.6   | 75.6   |        |        |        |        |        |        |        | 109.8  |
| MFA 7043. RPM      | 3150   | 71.1                                       | 73.6   | 75.2   | 77.2   | 77.0   | 77.3   | 78.2   | 76.4   | 73.8   |        |        |        |        |        |        |        | 109.8  |
| (737. RAD/SEC)     | 4000   | 70.5                                       | 73.3   | 75.4   | 77.7   | 77.7   | 78.2   | 81.4   | 77.1   | 74.5   |        |        |        |        |        |        |        | 111.6  |
| NFK 7126. RPM      | 5000   | 69.9                                       | 72.8   | 75.2   | 78.1   | 80.8   | 81.9   | 82.1   | 79.8   | 75.4   |        |        |        |        |        |        |        | 112.4  |
| (748. RAD/SEC)     | 6300   | 71.6                                       | 74.9   | 76.5   | 80.3   | 83.1   | 84.9   | 86.3   | 82.4   | 76.7   |        |        |        |        |        |        |        | 119.8  |
| NFD 8023. RPM      | 8000   | 73.1                                       | 77.1   | 79.4   | 82.7   | 85.1   | 87.4   | 88.6   | 84.6   | 78.8   |        |        |        |        |        |        |        | 117.8  |
| (924. RAD/SEC)     | 10000  | 76.4                                       | 80.9   | 83.7   | 85.8   | 86.3   | 86.9   | 89.5   | 85.1   | 79.2   |        |        |        |        |        |        |        | 119.6  |
| NO. OF BLADES 15   | 12500  | 85.8                                       | 90.9   | 94.8   | 94.7   | 91.9   | 93.2   | 91.7   | 87.5   | 83.4   |        |        |        |        |        |        |        | 126.7  |
| FAN TIP SPEED      | 16000  | 75.1                                       | 83.6   | 86.8   | 88.5   | 89.7   | 90.9   | 89.9   | 84.7   | 80.5   |        |        |        |        |        |        |        | 122.1  |
| 615. FT/SEC        | 20000  | 76.2                                       | 81.4   | 84.1   | 86.2   | 88.3   | 91.5   | 91.8   | 86.0   | 79.7   |        |        |        |        |        |        |        | 122.3  |
|                    | 25000  | 72.7                                       | 77.9   | 81.1   | 83.5   | 85.7   | 86.7   | 89.3   | 84.2   | 77.7   |        |        |        |        |        |        |        | 120.3  |
|                    | 31500  | 70.6                                       | 75.7   | 79.6   | 81.5   | 83.8   | 86.4   | 86.3   | 81.9   | 74.2   |        |        |        |        |        |        |        | 118.9  |
|                    | 40000  | 64.6                                       | 72.6   | 75.8   | 78.8   | 81.5   | 82.7   | 83.6   | 78.8   | 69.0   |        |        |        |        |        |        |        | 117.3  |
|                    | 50000  | 68.3                                       | 70.5   | 72.6   | 74.9   | 77.9   | 78.2   | 78.4   | 75.4   | 66.0   |        |        |        |        |        |        |        | 115.8  |
|                    | 63000  | 59.3                                       | 68.9   | 69.1   | 71.5   | 72.6   | 72.3   | 72.0   | 70.8   | 64.8   |        |        |        |        |        |        |        | 113.8  |
|                    | 80000  | 72.2                                       | 69.6   | 69.6   | 70.1   | 70.1   | 69.9   | 68.8   | 68.4   | 67.2   |        |        |        |        |        |        |        | 116.1  |
| OVERALL MEASURED   |        |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |        | 93.3                                       | 93.9   | 96.9   | 98.9   | 97.9   | 99.7   | 99.7   | 96.8   | 95.0   |        |        |        |        |        |        |        | 131.9  |
| PRDF               |        | 97.6                                       | 99.7   | 101.4  | 103.4  | 105.2  | 106.7  | 107.8  | 106.8  | 103.0  |        |        |        |        |        |        |        |        |

442  
 MODEL SOUND PRESSURE LEVELS (59. IFC, P, 70 PERCENT OEL, MUM, EAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)  
 FREQ. DATE - Month 12 DAY 17 No. 19,8  
 FULL SCALE DATA REDUCTION PROGRAM  
 PAGES 1  
 PRINTED IN U.S.A. 32

ORIGINAL PAGE IS  
 OF POOR QUALITY

ANGLES FROM TUBES IN DEGREES (AKE RADIAN)

PREC. (1.1) (1.1) (1.5) (1.7) (1.9) (2.1) (2.3) (2.5) (2.7) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)

|                    | 50    | 63   | 80   | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 | 6300 | 8000 |  |
|--------------------|-------|------|------|------|------|------|------|------|------|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|--|
| SIDE LINE 200. FT. | 63    | 59   |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| VEHICLE (50.38 4)  | 100   | 49.3 | 49.0 | 49.3 | 49.7 | 48.7 | 49.3 | 51.3 | 54.0 | 54.0 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| VEHICLE R=54       | 125   | 56.7 | 54.4 | 54.0 | 57.1 | 52.3 | 54.0 | 53.9 | 54.2 | 53.9 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| CONFIC 20          | 180   | 49.7 | 51.3 | 51.4 | 51.0 | 52.2 | 53.7 | 54.1 | 55.0 | 52.6 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| LCC SCHEMECTAY     | 200   | 49.8 | 51.0 | 52.3 | 54.7 | 54.7 | 55.9 | 55.2 | 56.4 | 54.4 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| DATE 12/12/74      | 250   | 53.0 | 54.4 | 55.0 | 55.3 | 55.3 | 56.5 | 54.8 | 56.5 | 52.7 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| RUN 38/6           | 315   | 54.4 | 55.6 | 55.9 | 55.8 | 55.7 | 55.8 | 55.0 | 54.3 | 52.8 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| TAPE               | 400   | 52.3 | 53.7 | 53.8 | 53.7 | 54.5 | 55.0 | 54.4 | 54.2 | 51.3 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| BAR 29.7 MC        | 500   | 49.7 | 51.7 | 52.2 | 53.6 | 54.5 | 55.2 | 54.7 | 53.3 | 49.5 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| (00250. H/Hz)      | 630   | 51.9 | 53.1 | 54.9 | 54.5 | 57.4 | 57.3 | 55.9 | 54.1 | 49.0 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| TAMB 47. DEG F     | 800   | 53.0 | 53.5 | 55.5 | 54.4 | 56.9 | 56.9 | 55.4 | 53.6 | 48.5 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| (251. DEG K)       | 1000  | 49.3 | 51.6 | 52.9 | 54.0 | 55.2 | 55.7 | 55.3 | 52.7 | 46.6 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| T-ET 44. DEG F     | 1250  | 48.7 | 50.8 | 52.3 | 53.7 | 54.5 | 55.3 | 54.3 | 52.4 | 45.8 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| (270. DEG K)       | 1600  | 49.3 | 51.4 | 52.2 | 53.3 | 54.3 | 55.1 | 54.6 | 52.4 | 44.1 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| HACT 6.89 GM/MS    | 2000  | 48.1 | 50.8 | 51.3 | 52.3 | 53.4 | 53.4 | 52.6 | 50.6 | 42.3 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| (.00889 KG/MS)     | 2500  | 47.6 | 50.8 | 52.6 | 52.9 | 51.4 | 50.4 | 50.6 | 47.3 | 41.4 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| NFA 7043. RPM      | 3150  | 47.1 | 50.1 | 51.8 | 53.6 | 52.8 | 52.0 | 51.2 | 46.5 | 38.9 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| ( 737. RAC/SEC)    | 4000  | 45.0 | 49.4 | 51.8 | 53.7 | 56.0 | 54.5 | 53.8 | 46.5 | 36.5 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| NFK 7120. RPM      | 5000  | 45.2 | 48.6 | 51.1 | 53.9 | 56.0 | 55.9 | 54.1 | 46.7 | 39.0 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| ( 746. RAC/SEC)    | 6300  | 45.2 | 50.8 | 51.8 | 55.4 | 57.4 | 58.1 | 57.4 | 50.2 | 38.3 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| NFC 8023. RPM      | 8000  | 46.5 | 51.1 | 53.6 | 56.6 | 58.3 | 59.2 | 58.2 | 50.4 | 37.5 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| ( 824. RAC/SEC)    | 10000 | 48.2 | 53.4 | 56.4 | 59.2 | 57.9 | 58.8 | 57.6 | 48.2 | 34.0 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| NO. OF BLADES 15   | 12500 | 54.4 | 61.2 | 65.1 | 66.8 | 61.1 | 60.6 | 56.0 | 46.6 | 32.4 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| FAH TIP SPEED      | 16000 | 43.7 | 50.1 | 53.6 | 55.0 | 55.0 | 54.0 | 49.2 | 37.5 | 28.2 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| 615. FT/SEC        | 20000 | 36.8 | 43.2 | 46.2 | 47.4 | 46.5 | 46.9 | 44.4 | 36.2 | 7.0  |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 25000 | 26.3 | 32.8 | 36.3 | 34.2 | 38.6 | 38.1 | 32.5 | 18.4 |      |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 31500 | 13.5 | 20.5 | 24.0 | 26.2 | 26.0 | 23.9 | 15.6 |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 40000 |      | 2.5  | 6.5  | 6.4  | 7.9  | 2.5  |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 50000 |      |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 63000 |      |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 80000 |      |      |      |      |      |      |      |      |      |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| OVERALL CALCULATED |       | 64.5 | 66.8 | 69.0 | 70.5 | 69.5 | 69.7 | 68.4 | 66.1 | 62.7 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |
| PMSE               |       | 73.5 | 76.1 | 77.7 | 79.3 | 80.6 | 80.7 | 79.9 | 75.4 | 68.6 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |

ACORN SOUNDWORKS INC. 1978 1010 SOUTH WASH. ST.

ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                    | 71     | 81     | 91     | 101    | 111    | 121    | 131    | 141    | 151     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | PWL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| FREQ               | (1.24) | (1.61) | (2.08) | (2.76) | (3.64) | (4.73) | (6.12) | (7.92) | (10.25) | (13.2) | (16.8) | (22.1) | (28.6) | (37.1) | (48.1) | (62.4) | (80.8) |       |
| RADIAL 17. F1.     | 50     | 53     | 56     | 58     | 60     | 62     | 64     | 66     | 68      | 70     | 72     | 74     | 76     | 78     | 80     | 82     | 84     | 112.8 |
| VEHICLE            | 100    | 74.1   | 73.4   | 74.4   | 74.6   | 75.1   | 75.6   | 76.0   | 76.5    | 77.0   | 77.5   | 78.0   | 78.5   | 79.0   | 79.5   | 80.0   | 80.5   | 114.0 |
| CONFIG             | 150    | 75.6   | 75.6   | 77.6   | 77.9   | 79.1   | 80.4   | 81.4   | 82.4    | 83.4   | 84.4   | 85.4   | 86.4   | 87.4   | 88.4   | 89.4   | 90.4   | 114.1 |
| LCC SCHEMATIC      | 200    | 75.1   | 76.1   | 78.1   | 80.1   | 82.1   | 84.1   | 86.1   | 88.1    | 90.1   | 92.1   | 94.1   | 96.1   | 98.1   | 100.1  | 102.1  | 104.1  | 114.7 |
| DATE 12/12/74      | 250    | 81.1   | 81.5   | 82.6   | 83.3   | 84.6   | 85.8   | 86.6   | 87.6    | 88.6   | 89.6   | 90.6   | 91.6   | 92.6   | 93.6   | 94.6   | 95.6   | 116.1 |
| RUN 30/7           | 315    | 83.1   | 83.9   | 84.1   | 84.4   | 84.6   | 84.8   | 85.0   | 85.2    | 85.4   | 85.6   | 85.8   | 86.0   | 86.2   | 86.4   | 86.6   | 86.8   | 116.0 |
| TYPE               | 450    | 78.3   | 79.1   | 79.4   | 79.9   | 80.6   | 81.1   | 81.6   | 82.1    | 82.6   | 83.1   | 83.6   | 84.1   | 84.6   | 85.1   | 85.6   | 86.1   | 115.1 |
| RAF 29.7 MG        | 550    | 76.6   | 77.4   | 78.1   | 78.6   | 81.3   | 82.9   | 83.1   | 84.0    | 85.3   | 86.0   | 86.8   | 87.6   | 88.4   | 89.2   | 90.0   | 90.8   | 116.0 |
| 100268. K/M2       | 650    | 77.9   | 79.1   | 80.4   | 81.4   | 83.3   | 84.1   | 84.4   | 84.5    | 84.4   | 84.4   | 84.4   | 84.4   | 84.4   | 84.4   | 84.4   | 84.4   | 115.0 |
| YAW 47. DEG F      | 850    | 81.2   | 81.9   | 82.6   | 82.2   | 84.1   | 84.6   | 84.9   | 84.5    | 85.6   | 86.7   | 87.8   | 88.9   | 90.0   | 91.1   | 92.2   | 93.3   | 116.9 |
| 1281. DEG F        | 1050   | 77.1   | 77.3   | 79.1   | 79.9   | 81.3   | 83.1   | 83.9   | 83.2    | 83.1   | 83.1   | 83.1   | 83.1   | 83.1   | 83.1   | 83.1   | 83.1   | 114.7 |
| T-WCT 44. DEG F    | 1250   | 75.6   | 77.2   | 77.9   | 79.7   | 80.6   | 83.1   | 82.9   | 82.2    | 82.2   | 82.2   | 82.2   | 82.2   | 82.2   | 82.2   | 82.2   | 82.2   | 114.1 |
| (286. DEG F)       | 1650   | 75.3   | 76.2   | 77.2   | 78.7   | 79.8   | 81.1   | 81.6   | 81.2    | 80.8   | 80.8   | 80.8   | 80.8   | 80.8   | 80.8   | 80.8   | 80.8   | 112.8 |
| NACT 6.09 GN/M3    | 2050   | 75.6   | 77.8   | 79.0   | 79.7   | 81.5   | 84.1   | 85.4   | 83.5    | 81.1   | 81.1   | 81.1   | 81.1   | 81.1   | 81.1   | 81.1   | 81.1   | 115.1 |
| (1-08889 K/M3)     | 2550   | 75.3   | 77.3   | 78.7   | 78.7   | 78.5   | 79.0   | 81.6   | 79.8    | 76.5   | 76.5   | 76.5   | 76.5   | 76.5   | 76.5   | 76.5   | 76.5   | 112.3 |
| NFA 7825. HPA      | 3150   | 73.8   | 76.3   | 78.0   | 79.9   | 78.5   | 76.3   | 81.1   | 78.7    | 77.5   | 77.5   | 77.5   | 77.5   | 77.5   | 77.5   | 77.5   | 77.5   | 111.7 |
| (819. PAL/SEC)     | 4850   | 74.7   | 77.0   | 79.2   | 81.1   | 83.7   | 83.9   | 85.5   | 80.2    | 77.9   | 77.9   | 77.9   | 77.9   | 77.9   | 77.9   | 77.9   | 77.9   | 115.2 |
| NFK 7917. RPP      | 5050   | 73.4   | 75.7   | 78.4   | 80.8   | 82.3   | 83.1   | 83.5   | 81.1    | 78.4   | 78.4   | 78.4   | 78.4   | 78.4   | 78.4   | 78.4   | 78.4   | 114.2 |
| (829. RAD/SEC)     | 6350   | 75.1   | 77.9   | 80.8   | 84.3   | 85.6   | 86.6   | 89.0   | 83.3    | 79.2   | 79.2   | 79.2   | 79.2   | 79.2   | 79.2   | 79.2   | 79.2   | 116.4 |
| NPD 8823. RPM      | 8650   | 76.3   | 79.3   | 81.9   | 85.4   | 87.3   | 91.1   | 91.3   | 85.2    | 80.7   | 80.7   | 80.7   | 80.7   | 80.7   | 80.7   | 80.7   | 80.7   | 120.5 |
| (924. RAD/SEC)     | 10950  | 78.9   | 80.6   | 83.0   | 85.2   | 88.1   | 90.1   | 91.4   | 85.5    | 81.1   | 81.1   | 81.1   | 81.1   | 81.1   | 81.1   | 81.1   | 81.1   | 120.6 |
| NO. OF BLADES 15   | 12500  | 80.9   | 85.6   | 88.8   | 90.1   | 91.4   | 93.4   | 93.4   | 87.1    | 82.4   | 82.4   | 82.4   | 82.4   | 82.4   | 82.4   | 82.4   | 82.4   | 124.1 |
| FAH TIP SPEED      | 16000  | 80.8   | 86.3   | 88.5   | 89.6   | 91.2   | 93.4   | 91.8   | 86.1    | 82.5   | 82.5   | 82.5   | 82.5   | 82.5   | 82.5   | 82.5   | 82.5   | 123.9 |
| 663. FT/SEC        | 20000  | 83.4   | 86.4   | 88.1   | 90.6   | 92.1   | 94.9   | 93.9   | 87.6    | 83.0   | 83.0   | 83.0   | 83.0   | 83.0   | 83.0   | 83.0   | 83.0   | 125.0 |
|                    | 25000  | 78.1   | 82.4   | 85.6   | 87.4   | 90.4   | 93.0   | 93.0   | 86.3    | 81.4   | 81.4   | 81.4   | 81.4   | 81.4   | 81.4   | 81.4   | 81.4   | 124.4 |
|                    | 31500  | 76.3   | 80.7   | 83.1   | 85.5   | 87.8   | 90.4   | 90.2   | 84.3    | 78.2   | 78.2   | 78.2   | 78.2   | 78.2   | 78.2   | 78.2   | 78.2   | 122.0 |
|                    | 40000  | 75.3   | 78.3   | 80.3   | 82.7   | 85.1   | 86.6   | 87.3   | 81.5    | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 121.1 |
|                    | 50000  | 76.2   | 77.5   | 77.8   | 80.6   | 82.1   | 82.7   | 82.5   | 76.8    | 73.0   | 73.0   | 73.0   | 73.0   | 73.0   | 73.0   | 73.0   | 73.0   | 119.7 |
|                    | 63000  | 73.4   | 77.8   | 77.3   | 78.9   | 78.9   | 78.6   | 78.8   | 76.4    | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 120.2 |
|                    | 80000  | 82.2   | 79.3   | 79.6   | 80.1   | 80.1   | 79.3   | 77.7   | 77.8    | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 120.8 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |       |
| OVERALL CALCULATED |        | 92.7   | 95.0   | 97.0   | 98.6   | 100.3  | 102.5  | 102.4  | 99.8    | 98.6   | 98.6   | 98.6   | 98.6   | 98.6   | 98.6   | 98.6   | 98.6   | 124.6 |
| PWDF               |        | 101.1  | 102.9  | 104.6  | 106.7  | 108.1  | 110.1  | 110.8  | 107.8   | 106.8  | 106.8  | 106.8  | 106.8  | 106.8  | 106.8  | 106.8  | 106.8  |       |

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT DEL. HUM. IAW)

|                    | 71     | 81     | 91     | 101    | 111    | 121    | 131    | 141    | 151    | 0    | 0  | 0   | 0   | 0   | 0   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|-----|-----|-----|-----|
| FREQ.              | (1.04) | (1.24) | (1.54) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0    | 0  | 0   | 0   | 0   | 0   |
| SIDE LANE 200. FT. | 59     | 63     | 67     | 71     | 75     | 79     | 83     | 87     | 91     | 95   | 99 | 103 | 107 | 111 | 115 |
| VEHICLE            | 100    | 59.0   | 51.7   | 52.0   | 52.9   | 52.9   | 52.6   | 54.5   | 56.9   | 58.0 |    |     |     |     |     |
| COEFF              | 125    | 44.4   | 51.9   | 56.0   | 58.1   | 56.8   | 57.2   | 56.9   | 57.0   | 57.1 |    |     |     |     |     |
| LOC                | 200    | 52.8   | 54.2   | 56.3   | 58.1   | 59.4   | 59.0   | 58.9   | 58.9   | 58.9 |    |     |     |     |     |
| DATE               | 250    | 58.7   | 56.8   | 60.7   | 61.3   | 62.1   | 62.4   | 60.8   | 56.8   | 57.9 |    |     |     |     |     |
| RUN                | 315    | 57.6   | 58.8   | 59.1   | 59.2   | 59.0   | 58.0   | 58.2   | 57.9   | 56.0 |    |     |     |     |     |
| TAPE               | 400    | 55.0   | 54.9   | 57.3   | 57.7   | 57.9   | 58.5   | 57.8   | 57.0   | 55.2 |    |     |     |     |     |
| BAR                | 500    | 53.9   | 57.1   | 56.0   | 57.3   | 58.5   | 59.1   | 57.9   | 56.4   | 53.7 |    |     |     |     |     |
| TAMP               | 600    | 55.1   | 56.8   | 58.2   | 59.0   | 60.4   | 60.3   | 59.0   | 56.7   | 53.0 |    |     |     |     |     |
| TAET               | 800    | 56.9   | 58.4   | 60.3   | 60.6   | 61.0   | 60.6   | 59.4   | 56.5   | 53.4 |    |     |     |     |     |
| NACT               | 1000   | 54.1   | 55.3   | 56.7   | 57.3   | 58.1   | 59.0   | 58.2   | 55.6   | 50.6 |    |     |     |     |     |
| NFA                | 1250   | 52.4   | 54.5   | 55.3   | 56.9   | 57.2   | 58.0   | 57.0   | 53.8   | 50.0 |    |     |     |     |     |
| NPK                | 1600   | 52.0   | 53.3   | 54.4   | 55.7   | 56.3   | 56.6   | 55.5   | 52.5   | 47.5 |    |     |     |     |     |
| NFE                | 2000   | 52.3   | 54.7   | 56.0   | 56.6   | 57.9   | 59.4   | 59.0   | 54.4   | 47.3 |    |     |     |     |     |
| NAC                | 2500   | 51.5   | 54.0   | 55.6   | 55.4   | 54.6   | 54.1   | 55.0   | 50.1   | 45.3 |    |     |     |     |     |
| NAB                | 3150   | 49.8   | 52.8   | 54.6   | 55.3   | 54.3   | 53.0   | 54.1   | 48.9   | 42.6 |    |     |     |     |     |
| NAD                | 4000   | 50.3   | 53.1   | 55.4   | 57.1   | 57.3   | 58.2   | 58.0   | 49.6   | 41.9 |    |     |     |     |     |
| NAE                | 5000   | 48.7   | 51.5   | 54.3   | 56.4   | 57.4   | 57.1   | 55.6   | 50.1   | 41.7 |    |     |     |     |     |
| NAF                | 6300   | 47.0   | 52.9   | 55.2   | 56.3   | 57.9   | 61.8   | 60.1   | 51.0   | 41.0 |    |     |     |     |     |
| NAH                | 8000   | 49.7   | 53.3   | 56.1   | 59.4   | 60.5   | 62.9   | 60.9   | 51.0   | 39.8 |    |     |     |     |     |
| NAI                | 10000  | 48.7   | 53.1   | 55.6   | 57.6   | 59.7   | 60.1   | 58.9   | 48.6   | 35.9 |    |     |     |     |     |
| NO. OF BLADES      | 12500  | 50.4   | 55.9   | 59.3   | 60.3   | 60.6   | 60.8   | 58.0   | 46.3   | 31.0 |    |     |     |     |     |
| FAN TIP SPEED      | 18000  | 46.4   | 52.0   | 55.4   | 56.2   | 56.5   | 56.5   | 50.9   | 38.8   | 22.1 |    |     |     |     |     |
| 663. FT/SEC        | 20000  | 41.1   | 46.1   | 50.2   | 52.3   | 52.3   | 52.4   | 46.6   | 31.6   | 10.2 |    |     |     |     |     |
|                    | 25000  | 31.5   | 37.3   | 41.0   | 42.2   | 43.3   | 42.3   | 36.2   | 18.5   |      |    |     |     |     |     |
|                    | 31500  | 19.2   | 23.5   | 26.5   | 30.1   | 30.0   | 27.0   | 19.5   |        |      |    |     |     |     |     |
|                    | 45000  | 2.3    | 6.2    | 11.0   | 12.3   | 11.3   | 6.5    |        |        |      |    |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |      |    |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |      |    |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |      |    |     |     |     |     |
| OVERALL CALCULATED |        | 67.4   | 68.9   | 70.5   | 71.5   | 72.3   | 72.8   | 71.6   | 68.8   | 66.7 |    |     |     |     |     |
| PMSE               |        | 77.0   | 79.2   | 81.0   | 82.5   | 83.7   | 84.1   | 83.0   | 78.0   | 72.6 |    |     |     |     |     |

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE





ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                   | 71      | 81     | 91     | 101    | 111    | 124    | 133    | 145    | 156    | 0.   | 0. | 0. | 0. | 0. | 0. | 0.  |
|-------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|-----|
| FREQ.             | (1.024) | (1.41) | (1.58) | (1.78) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 0. | 0. | 0. | 0. | 0. | 0.) |
| SIDE LVE 200. FT. | 50      |        |        |        |        |        |        |        |        |      |    |    |    |    |    |     |
| (60.98 F)         | 53      |        |        |        |        |        |        |        |        |      |    |    |    |    |    |     |
| VEHICLE           | 100     | 51.8   | 50.7   | 52.3   | 52.9   | 51.9   | 52.6   | 54.2   | 56.7   | 57.4 |    |    |    |    |    |     |
| (60.98 F)         | 125     | 54.9   | 54.1   | 55.2   | 56.3   | 57.1   | 57.0   | 58.6   | 56.5   | 57.1 |    |    |    |    |    |     |
| CONFIG            | 20      | 53.9   | 54.5   | 54.4   | 54.2   | 55.0   | 57.1   | 57.5   | 57.6   | 56.6 |    |    |    |    |    |     |
| LCC SCHEMECTAD    | 250     | 53.0   | 54.4   | 55.8   | 57.9   | 57.9   | 59.3   | 58.9   | 59.0   | 58.1 |    |    |    |    |    |     |
| DATE 12/12/74     | 270     | 55.7   | 59.6   | 60.7   | 60.4   | 61.8   | 62.2   | 61.0   | 59.6   | 57.9 |    |    |    |    |    |     |
| RLM 30/8          | 315     | 57.1   | 59.8   | 58.5   | 59.0   | 59.0   | 58.8   | 57.9   | 57.9   | 55.7 |    |    |    |    |    |     |
| TAPC              | 400     | 55.5   | 56.7   | 57.1   | 57.4   | 58.1   | 58.2   | 57.3   | 57.0   | 54.7 |    |    |    |    |    |     |
| BAR 29.7 HG       | 510     | 53.7   | 55.4   | 55.7   | 57.1   | 58.0   | 58.0   | 57.7   | 56.6   | 53.7 |    |    |    |    |    |     |
| (100250. H/HZ)    | 630     | 55.1   | 56.5   | 58.2   | 59.2   | 60.2   | 59.8   | 58.8   | 56.5   | 53.6 |    |    |    |    |    |     |
| TAMP 47. DEC F    | 650     | 58.9   | 57.7   | 59.8   | 60.1   | 60.8   | 60.6   | 59.1   | 56.7   | 53.4 |    |    |    |    |    |     |
| (281. DEC F)      | 1000    | 54.1   | 55.3   | 54.2   | 57.3   | 58.8   | 59.0   | 57.7   | 54.8   | 50.6 |    |    |    |    |    |     |
| T-ET 44. DEC F    | 1250    | 51.2   | 54.3   | 55.3   | 56.4   | 57.7   | 57.8   | 57.3   | 54.1   | 49.3 |    |    |    |    |    |     |
| (290. DEC F)      | 1600    | 51.7   | 53.3   | 54.7   | 55.7   | 56.3   | 56.1   | 55.5   | 52.5   | 47.3 |    |    |    |    |    |     |
| MACT 6.09 GM/MS   | 2000    | 52.0   | 54.8   | 55.5   | 56.5   | 57.6   | 59.1   | 58.8   | 53.9   | 47.6 |    |    |    |    |    |     |
| (1.00569 GM/MS)   | 2500    | 51.3   | 53.8   | 55.4   | 55.4   | 54.4   | 54.1   | 54.8   | 50.1   | 45.1 |    |    |    |    |    |     |
| NFA 7823. RPM     | 3100    | 50.3   | 52.8   | 54.3   | 55.8   | 54.3   | 53.0   | 54.8   | 48.9   | 42.6 |    |    |    |    |    |     |
| (819. RPM/SEC)    | 4000    | 50.3   | 53.1   | 55.4   | 57.4   | 59.3   | 57.2   | 57.7   | 48.6   | 41.6 |    |    |    |    |    |     |
| NFK 7915. RPM     | 5000    | 48.7   | 51.8   | 54.3   | 56.1   | 57.7   | 57.0   | 55.4   | 50.1   | 41.2 |    |    |    |    |    |     |
| (829. RPM/SEC)    | 6300    | 49.8   | 52.9   | 54.7   | 59.8   | 60.2   | 61.5   | 60.3   | 51.0   | 41.0 |    |    |    |    |    |     |
| NFD 8823. RPM     | 8000    | 49.5   | 53.1   | 55.8   | 58.9   | 60.5   | 62.7   | 60.6   | 51.0   | 39.5 |    |    |    |    |    |     |
| (924. RPM/SEC)    | 10000   | 48.7   | 53.1   | 55.1   | 57.4   | 59.7   | 61.1   | 58.9   | 48.6   | 35.6 |    |    |    |    |    |     |
| NO. OF BLADES 15  | 12500   | 50.6   | 55.6   | 59.6   | 60.5   | 60.8   | 61.0   | 57.7   | 46.5   | 32.1 |    |    |    |    |    |     |
| FAN TIP SPEED     | 16000   | 45.7   | 52.1   | 55.4   | 56.5   | 56.5   | 56.2   | 51.4   | 38.1   | 21.9 |    |    |    |    |    |     |
| 683. FT/SEC       | 20000   | 41.8   | 47.6   | 50.4   | 52.0   | 52.5   | 52.1   | 47.1   | 32.3   | 18.2 |    |    |    |    |    |     |
|                   | 25000   | 31.8   | 37.5   | 40.5   | 41.9   | 43.1   | 42.0   | 38.7   | 19.0   |      |    |    |    |    |    |     |
|                   | 31500   | 19.2   | 25.2   | 28.2   | 30.4   | 30.3   | 28.1   | 19.7   |        |      |    |    |    |    |    |     |
|                   | 40000   | 2.5    | 7.9    | 11.3   | 12.6   | 11.3   | 6.7    |        |        |      |    |    |    |    |    |     |
|                   | 50000   |        |        |        |        |        |        |        |        |      |    |    |    |    |    |     |
|                   | 63000   |        |        |        |        |        |        |        |        |      |    |    |    |    |    |     |
|                   | 80000   |        |        |        |        |        |        |        |        |      |    |    |    |    |    |     |
| OVERALL CALCULATE |         | 67.3   | 68.6   | 70.2   | 71.4   | 72.3   | 72.7   | 71.5   | 68.7   | 66.6 |    |    |    |    |    |     |
| PNCR              |         | 75.9   | 79.1   | 80.8   | 82.6   | 83.7   | 83.9   | 83.0   | 77.8   | 72.5 |    |    |    |    |    |     |

AECOM TECHNOLOGICAL CORP. 100 CALIF ST. FORT LINDSEY, CALIF. 95531



|                     | NOISE SOUND PRESSURE LEVELS (50, DEG. F., 70 PERCENT REL. HUM., EAV) |        |        |        |        |        |        |        |        |        |
|---------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                     | 71   | 81     | 91     | 101    | 111    | 121    | 131    | 141    | 151    | 161    |
|                     | ANGLES FROM INLET IN DEGREES (ANG. WADTANGS)                         |        |        |        |        |        |        |        |        |        |
| PREV.               | (1.24)   | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.94) |
| 50                  |  |        |        |        |        |        |        |        |        |        |
| 60                  |  |        |        |        |        |        |        |        |        |        |
| 80                  |  |        |        |        |        |        |        |        |        |        |
| SIDE LINE 200. FT.  |  |        |        |        |        |        |        |        |        |        |
| ( 06.78 F.)         | 100  | 57.5   | 60.2   | 60.8   | 59.1   | 56.1   | 50.8   | 47.2   | 47.9   | 47.0   |
| VEHICLE R-55        | 125  | 52.2   | 49.3   | 51.0   | 47.3   | 48.1   | 47.7   | 46.9   | 45.5   | 45.6   |
| CONFIG 20           | 100  | 48.1   | 47.0   | 47.4   | 47.2   | 48.2   | 47.9   | 47.3   | 46.6   | 44.0   |
| LCC SCHEDULE        | 200  | 49.8   | 47.9   | 49.8   | 49.6   | 50.6   | 50.0   | 49.1   | 48.5   | 46.6   |
| DATE 12/12/74       | 250  | 49.4   | 50.1   | 51.0   | 50.5   | 50.3   | 50.7   | 49.5   | 47.6   | 45.2   |
| RUN 30/9            | 315  | 47.3   | 49.6   | 49.6   | 49.5   | 49.7   | 49.3   | 47.9   | 46.7   | 44.0   |
| TAPE                | 430  | 49.3   | 48.4   | 48.0   | 49.4   | 49.7   | 49.5   | 48.3   | 47.0   | 43.5   |
| BAR 29.7 HG         | 500  | 48.9   | 49.1   | 49.0   | 50.3   | 50.3   | 51.1   | 49.2   | 47.9   | 43.5   |
| ( 06266. H/12)      | 630  | 50.3   | 50.5   | 51.7   | 52.7   | 53.7   | 53.3   | 51.0   | 48.7   | 44.0   |
| TANK 47. DEG F      | 830  | 57.9   | 54.2   | 56.8   | 55.4   | 57.9   | 55.4   | 54.1   | 50.7   | 48.2   |
| ( 201. DEG R)       | 1030   | 49.8   | 49.5   | 50.9   | 51.8   | 52.1   | 52.7   | 51.2   | 48.8   | 42.1   |
| T-ET 43. DEG F      | 1250   | 47.2   | 48.5   | 49.3   | 50.4   | 52.2   | 53.8   | 52.5   | 50.8   | 41.5   |
| ( 279. DEG R)       | 1600   | 47.8   | 45.8   | 46.7   | 48.3   | 49.1   | 49.3   | 47.5   | 46.3   | 38.3   |
| MACY 6.12 CM/MS     | 2030   | 46.8   | 45.2   | 45.4   | 46.6   | 46.4   | 46.1   | 43.5   | 41.5   | 35.8   |
| ( 00012 KG/MS)      | 2530   | 46.8   | 45.8   | 47.9   | 48.4   | 47.4   | 46.8   | 44.5   | 42.4   | 35.6   |
| MFA 5407. RPM       | 3150   | 46.3   | 44.8   | 45.8   | 47.3   | 46.9   | 47.3   | 43.9   | 41.1   | 34.1   |
| ( 574. RAD/SEC)     | 4000   | 45.8   | 44.3   | 45.9   | 48.4   | 52.0   | 51.7   | 49.2   | 43.6   | 33.9   |
| MFK 5552. RPM       | 5000   | 45.5   | 44.8   | 45.4   | 47.8   | 50.9   | 50.8   | 48.6   | 44.4   | 34.5   |
| ( 501. RAD/SEC)     | 6300   | 44.7   | 45.2   | 47.5   | 49.3   | 52.2   | 53.3   | 51.8   | 49.8   | 35.8   |
| MFD 8023. RPM       | 8000   | 44.8   | 47.3   | 50.1   | 52.8   | 54.1   | 54.0   | 52.9   | 46.1   | 34.0   |
| ( 924. RAD/SEC)     | 10000  | 44.7   | 48.4   | 54.4   | 57.9   | 64.2   | 61.6   | 56.7   | 49.4   | 37.2   |
| NO. OF BLADES 15    | 12570  | 48.5   | 54.9   | 58.1   | 59.1   | 58.4   | 54.3   | 51.5   | 42.8   | 28.2   |
| FAN TIP SPEED       | 18000  | 37.3   | 42.4   | 46.7   | 47.1   | 47.8   | 47.3   | 43.5   | 39.9   | 14.0   |
| 479. FT/SEC         | 20000  | 31.2   | 35.8   | 37.8   | 39.9   | 40.9   | 40.0   | 36.5   | 24.2   | 1.5    |
|                     | 25000  | 26.8   | 29.2   | 29.3   | 30.0   | 30.2   | 28.7   | 23.5   | 8.8    |        |
|                     | 31500  | 14.8   | 17.7   | 18.7   | 19.8   | 18.4   | 15.7   | 8.6    |        |        |
|                     | 40000  |        | 2.6    | 3.2    | 4.0    | 1.5    |        |        |        |        |
|                     | 50000  |        |        |        |        |        |        |        |        |        |
|                     | 63000  |        |        |        |        |        |        |        |        |        |
|                     | 80000  |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATION | 54.5   | 65.8   | 68.2   | 70.8   | 70.2   | 66.5   | 64.8   | 60.8   | 50.2   |        |
| PM20                | 73.2   | 75.8   | 77.6   | 79.8   | 80.4   | 77.3   | 74.5   | 70.4   | 63.6   |        |

430

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
 PROC. DATE - MONTH 4 DAY 29 HR. 20.3  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 33     | 67     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 160   | 180   | 210   | 240   | 270   | 300   | 330   | 360   |       |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FREQ.              | (0.02) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) |       |
| RADIAL 17. FT.     | 80     | 80.4   | 82.4   | 87.0   | 73.0   | 73.7   | 74.7   | 71.7   | 67.0   | 69.0   | 72.1   | 75.2  |       |       |       |       |       |       |       | 112.3 |
| ( 3, 4)            | 100    | 83.0   | 83.2   | 87.3   | 79.3   | 80.0   | 78.0   | 75.5   | 69.0   | 71.0   | 74.4   | 76.5  |       |       |       |       |       |       |       | 113.5 |
| VEHICLE R-55       | 125    | 84.2   | 82.0   | 86.6   | 68.3   | 74.1   | 68.0   | 67.3   | 70.0   | 71.1   | 71.9   | 74.0  |       |       |       |       |       |       |       | 110.4 |
| CONFIG 73-1A       | 160    | 82.7   | 82.7   | 87.3   | 66.0   | 66.5   | 67.0   | 66.5   | 69.3   | 71.3   | 74.1   | 74.7  |       |       |       |       |       |       |       | 109.0 |
| LOC SCHECTADY      | 200    | 80.2   | 82.4   | 68.8   | 67.1   | 68.1   | 69.0   | 70.3   | 71.1   | 72.0   | 74.4   | 76.5  |       |       |       |       |       |       |       | 109.3 |
| DATE 01-18-73      | 250    | 79.5   | 82.3   | 80.3   | 69.1   | 69.0   | 69.0   | 71.1   | 71.0   | 72.0   | 73.7   | 75.3  |       |       |       |       |       |       |       | 109.3 |
| NUM 50-3           | 315    | 80.2   | 83.1   | 80.4   | 70.4   | 70.4   | 70.9   | 71.3   | 71.1   | 72.4   | 73.2   | 74.3  |       |       |       |       |       |       |       | 109.0 |
| TAPP 25            | 400    | 81.4   | 82.2   | 80.3   | 68.6   | 69.5   | 70.3   | 71.0   | 71.3   | 72.0   | 73.1   | 73.9  |       |       |       |       |       |       |       | 109.0 |
| BAR 20.0 HG        | 500    | 79.1   | 81.9   | 80.2   | 68.7   | 69.9   | 70.9   | 71.9   | 72.7   | 73.4   | 74.0   | 75.0  |       |       |       |       |       |       |       | 109.1 |
| (80600, N/N2)      | 630    | 78.0   | 81.3   | 80.6   | 72.3   | 73.1   | 74.1   | 75.0   | 76.4   | 76.4   | 76.2   | 74.8  |       |       |       |       |       |       |       | 110.2 |
| TAN 30, DEG F      | 800    | 78.0   | 82.4   | 80.4   | 71.9   | 72.4   | 73.9   | 75.3   | 76.4   | 76.4   | 76.0   | 73.8  |       |       |       |       |       |       |       | 110.4 |
| (270, DEG R)       | 1000   | 76.5   | 81.0   | 80.0   | 76.0   | 73.1   | 75.3   | 77.0   | 76.9   | 79.0   | 79.7   | 79.2  |       |       |       |       |       |       |       | 111.5 |
| TWY 30, DEG F      | 1250   | 78.3   | 83.3   | 80.4   | 78.9   | 81.6   | 83.3   | 85.3   | 86.2   | 86.2   | 86.0   | 86.0  |       |       |       |       |       |       |       | 117.7 |
| (270, DEG R)       | 1600   | 76.2   | 81.7   | 80.5   | 77.3   | 80.0   | 82.0   | 84.2   | 84.0   | 83.6   | 83.4   | 77.4  |       |       |       |       |       |       |       | 119.7 |
| MACT 5.03 GN/MS    | 2000   | 76.5   | 80.1   | 80.0   | 78.1   | 80.6   | 82.0   | 83.0   | 83.7   | 82.7   | 81.5   | 77.7  |       |       |       |       |       |       |       | 115.4 |
| (.00500 KG/MS)     | 2500   | 77.0   | 81.3   | 80.8   | 79.0   | 83.0   | 85.2   | 87.2   | 87.0   | 87.0   | 87.0   | 81.9  |       |       |       |       |       |       |       | 119.1 |
| NFA 5413, RPM      | 3150   | 76.0   | 80.0   | 80.3   | 77.4   | 80.6   | 83.0   | 84.7   | 85.9   | 86.5   | 84.3   | 76.4  |       |       |       |       |       |       |       | 116.9 |
| ( 507, RAD/SEC)    | 4000   | 72.3   | 79.1   | 80.3   | 73.9   | 77.3   | 80.2   | 83.7   | 85.2   | 84.5   | 81.6   | 76.2  |       |       |       |       |       |       |       | 114.7 |
| NFR 5520, RPM      | 5000   | 73.0   | 77.0   | 80.5   | 78.9   | 79.1   | 78.9   | 82.4   | 82.2   | 81.0   | 79.6   | 75.0  |       |       |       |       |       |       |       | 113.0 |
| ( 570, RAD/SEC)    | 6300   | 72.2   | 77.0   | 80.4   | 71.3   | 74.0   | 78.0   | 81.0   | 82.1   | 81.0   | 80.4   | 76.0  |       |       |       |       |       |       |       | 113.2 |
| NFB 8023, RPM      | 8000   | 73.1   | 76.0   | 80.9   | 74.0   | 77.2   | 80.7   | 82.4   | 83.7   | 84.7   | 81.2   | 77.0  |       |       |       |       |       |       |       | 114.0 |
| ( 924, RAD/SEC)    | 10000  | 80.2   | 81.3   | 87.2   | 88.9   | 91.0   | 96.5   | 98.0   | 92.4   | 98.6   | 86.0   | 81.4  |       |       |       |       |       |       |       | 126.3 |
| NO. OF BLADES 15   | 12500  | 77.6   | 79.8   | 87.4   | 78.0   | 81.8   | 83.9   | 86.4   | 87.1   | 87.5   | 82.3   | 78.2  |       |       |       |       |       |       |       | 110.3 |
| FAN TIP SPEED      | 16000  | 77.0   | 80.3   | 87.7   | 78.0   | 78.9   | 78.0   | 81.0   | 82.7   | 86.1   | 80.6   | 77.9  |       |       |       |       |       |       |       | 116.0 |
| 473. FT/SEC        | 20000  | 81.6   | 80.0   | 88.1   | 72.0   | 73.4   | 78.0   | 80.9   | 84.0   | 86.7   | 81.3   | 76.9  |       |       |       |       |       |       |       | 116.0 |
|                    | 25000  | 82.0   | 82.7   | 87.4   | 73.0   | 73.6   | 74.5   | 78.1   | 80.7   | 82.3   | 79.3   | 79.3  |       |       |       |       |       |       |       | 115.3 |
|                    | 31500  | 82.0   | 81.0   | 85.0   | 74.0   | 73.9   | 73.9   | 77.2   | 79.9   | 81.3   | 77.0   | 78.7  |       |       |       |       |       |       |       | 115.0 |
|                    | 40000  | 82.7   | 82.0   | 85.2   | 75.0   | 73.5   | 72.3   | 76.1   | 78.3   | 79.4   | 77.0   | 81.2  |       |       |       |       |       |       |       | 116.0 |
|                    | 50000  | 80.0   | 80.9   | 86.2   | 75.6   | 74.2   | 68.0   | 71.9   | 73.0   | 72.0   | 74.0   | 79.0  |       |       |       |       |       |       |       | 116.0 |
|                    | 63000  | 77.2   | 75.7   | 84.3   | 72.2   | 78.0   | 63.0   | 64.7   | 69.0   | 63.5   | 68.7   | 73.4  |       |       |       |       |       |       |       | 114.0 |
|                    | 80000  | 74.4   | 69.7   | 64.5   | 67.3   | 64.0   | 65.0   | 64.3   | 63.5   | 64.2   | 64.0   | 65.3  |       |       |       |       |       |       |       | 110.0 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |       |       |
| OVERALL CALCULATED |        | 93.3   | 96.2   | 73.0   | 92.3   | 94.0   | 98.3   | 98.0   | 97.0   | 98.0   | 93.0   | 92.3  |       |       |       |       |       |       |       | 125.2 |
| PH00               |        | 102.0  | 106.0  | 82.0   | 102.7  | 100.4  | 100.7  | 100.4  | 100.0  | 100.6  | 100.0  | 100.0 |       |       |       |       |       |       |       |       |

ORIGINAL PAGE IS  
 OF POOR QUALITY

|                    | 90     | 87     | 71     | 81     | 91     | 101    | 111    | 121    | 133    | 145    | 156    | 0    | 90  | 80  | 70  | 60  | 50  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|
| FREQ.              | (0.92) | (1.04) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0) |
| 50                 |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| 63                 |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| STOFLINE 200. FT.  | 62.0   | 59.8   | 54.9   | 51.3   | 50.2   | 53.0   | 49.6   | 44.0   | 44.7   | 45.6   | 45.3   |      |     |     |     |     |     |
| ( 00.98 M)         | 100    | 62.7   | 60.5   | 55.2   | 57.6   | 50.4   | 57.0   | 53.5   | 49.0   | 46.6   | 47.6   | 46.4 |     |     |     |     |     |
| VEHICLE 4-55       | 125    | 59.4   | 60.9   | 54.4   | 48.5   | 52.4   | 47.8   | 45.8   | 47.4   | 46.6   | 45.2   | 44.5 |     |     |     |     |     |
| CONFIG 79-1A       | 160    | 58.8   | 59.6   | 55.0   | 44.2   | 44.8   | 45.1   | 46.1   | 46.0   | 46.7   | 46.3   | 44.3 |     |     |     |     |     |
| LDC SCHEMECTADY    | 200    | 59.3   | 59.3   | 58.3   | 45.2   | 48.3   | 47.6   | 47.9   | 47.8   | 47.9   | 47.5   | 45.6 |     |     |     |     |     |
| DATE 01-16-75      | 250    | 59.4   | 59.2   | 55.9   | 47.1   | 48.8   | 47.8   | 48.6   | 48.4   | 47.8   | 46.6   | 44.4 |     |     |     |     |     |
| RUN 50-3           | 315    | 59.1   | 59.9   | 54.1   | 48.3   | 48.4   | 48.7   | 47.7   | 47.6   | 47.4   | 45.9   | 43.2 |     |     |     |     |     |
| TAPP 25            | 400    | 57.1   | 58.9   | 53.7   | 46.6   | 47.5   | 48.3   | 48.3   | 47.9   | 46.9   | 45.7   | 42.8 |     |     |     |     |     |
| MAN 29.8 MC        | 500    | 54.7   | 58.5   | 53.5   | 46.4   | 47.8   | 48.6   | 49.1   | 49.8   | 48.2   | 46.4   | 42.3 |     |     |     |     |     |
| (00490 L/42)       | 638    | 56.5   | 57.5   | 53.8   | 50.9   | 50.8   | 51.7   | 52.9   | 52.5   | 51.8   | 48.4   | 42.9 |     |     |     |     |     |
| TAMP 34 DFC F      | 803    | 53.3   | 58.7   | 53.5   | 49.4   | 50.8   | 51.3   | 52.3   | 52.4   | 50.9   | 46.8   | 41.4 |     |     |     |     |     |
| (276 DFC K)        | 1000   | 51.6   | 58.8   | 53.5   | 48.2   | 50.6   | 52.9   | 54.6   | 54.7   | 54.2   | 51.5   | 42.8 |     |     |     |     |     |
| TMET 30 DFC F      | 1250   | 53.3   | 59.4   | 53.2   | 50.2   | 50.8   | 50.6   | 52.8   | 51.9   | 50.3   | 50.4   | 47.2 |     |     |     |     |     |
| (275 DFC K)        | 1600   | 56.9   | 57.6   | 53.1   | 54.4   | 57.2   | 59.8   | 60.7   | 59.5   | 57.5   | 54.7   | 44.1 |     |     |     |     |     |
| MACT 5.05 L/M3     | 2030   | 56.1   | 55.8   | 53.8   | 52.8   | 57.6   | 59.6   | 60.1   | 58.9   | 56.3   | 54.5   | 44.8 |     |     |     |     |     |
| (.00582 KC/M3)     | 2500   | 51.3   | 56.8   | 52.5   | 56.6   | 59.9   | 61.7   | 63.3   | 62.7   | 62.5   | 57.7   | 47.7 |     |     |     |     |     |
| NFA 5413 RPM       | 3150   | 50.8   | 55.6   | 52.5   | 53.9   | 57.2   | 59.4   | 60.9   | 60.6   | 59.5   | 54.5   | 44.5 |     |     |     |     |     |
| ( 567 MAJ/SEC)     | 4030   | 49.7   | 51.8   | 51.8   | 49.9   | 53.5   | 56.2   | 59.1   | 57.4   | 56.9   | 51.8   | 48.2 |     |     |     |     |     |
| NFK 5520 RPM       | 5000   | 48.9   | 52.8   | 51.8   | 48.7   | 51.8   | 54.7   | 57.5   | 56.1   | 53.1   | 48.6   | 39.0 |     |     |     |     |     |
| ( 579 MAJ/SEC)     | 6300   | 48.5   | 51.2   | 51.3   | 48.4   | 49.3   | 53.0   | 56.0   | 55.2   | 54.1   | 48.2   | 37.6 |     |     |     |     |     |
| NFD 8023 RPM       | 8000   | 46.8   | 49.2   | 50.3   | 48.8   | 51.3   | 54.6   | 55.6   | 55.6   | 54.3   | 47.8   | 35.8 |     |     |     |     |     |
| ( 924 MAJ/SEC)     | 10000  | 49.2   | 52.8   | 50.1   | 61.4   | 64.5   | 68.9   | 67.6   | 62.5   | 58.1   | 49.9   | 36.2 |     |     |     |     |     |
| NO. OF BLADES 15   | 12500  | 43.7   | 47.1   | 26.7   | 48.1   | 52.3   | 54.8   | 55.6   | 54.4   | 51.9   | 41.5   | 27.2 |     |     |     |     |     |
| FAN TIP SPEED      | 14000  | 41.4   | 44.5   | 23.4   | 48.5   | 43.7   | 45.3   | 47.2   | 49.8   | 45.4   | 33.3   | 17.8 |     |     |     |     |     |
| 473 FT/SEC         | 20000  | 37.8   | 39.1   | 18.7   | 34.6   | 37.5   | 40.5   | 41.1   | 41.3   | 39.4   | 29.5   | 6.1  |     |     |     |     |     |
|                    | 25000  | 28.7   | 33.5   | 18.6   | 27.9   | 29.8   | 29.2   | 31.8   | 30.8   | 29.7   | 14.7   |      |     |     |     |     |     |
|                    | 31500  | 19.5   | 21.2   |        | 18.9   | 19.3   | 19.5   | 19.3   | 17.4   | 18.6   |        |      |     |     |     |     |     |
|                    | 40000  |        | 4.4    |        | 6.5    | 6.2    | 2.8    | 2.4    |        |        |        |      |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| OVERALL CALCULATED | 69.5   | 71.4   | 47.2   | 66.3   | 69.5   | 72.1   | 72.2   | 70.5   | 68.8   | 64.9   | 57.2   |      |     |     |     |     |     |
| PMOD               | 72.9   | 81.9   | 57.8   | 78.2   | 81.2   | 83.2   | 84.4   | 82.5   | 82.6   | 72.2   | 69.8   |      |     |     |     |     |     |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (99, DEG. F., 70 PERCENT REL. HUM. DAY)  
PROC. DATE - MONTH 4 DAY 20 HR: 20.1  
ANGLES FROM 1MILLI IN DEGREES (AND RADIANS)

| FREQ.                  | ANGLES FROM 1MILLI IN DEGREES (AND RADIANS) |            |            |            |            |            |            |            |            |            |            |           |           |           | PWL   |           |           |           |           |
|------------------------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|-------|-----------|-----------|-----------|-----------|
|                        | 01, (0,92)                                  | 02, (1,06) | 03, (1,74) | 04, (1,41) | 05, (1,98) | 06, (1,76) | 07, (1,94) | 08, (2,13) | 09, (2,21) | 10, (2,52) | 11, (2,73) | 12, (0, ) | 13, (0, ) | 14, (0, ) |       | 15, (0, ) | 16, (0, ) | 17, (0, ) | 18, (0, ) |
| RADIAL 17, FT.         | 50  | 55         | 60         | 65         | 70         | 75         | 80         | 85         | 90         | 95         | 100        | 105       | 110       | 115       | 120   | 125       | 130       | 135       | 140       |
| ( 9, 4)                | 100   | 105        | 110        | 115        | 120        | 125        | 130        | 135        | 140        | 145        | 150        | 155       | 160       | 165       | 170   | 175       | 180       | 185       | 190       |
| VEHICLE R-54           | 125   | 130        | 135        | 140        | 145        | 150        | 155        | 160        | 165        | 170        | 175        | 180       | 185       | 190       | 195   | 200       | 205       | 210       | 215       |
| CONFIG 75-1A           | 100   | 105        | 110        | 115        | 120        | 125        | 130        | 135        | 140        | 145        | 150        | 155       | 160       | 165       | 170   | 175       | 180       | 185       | 190       |
| LOC SCHEMECTORY        | 200   | 205        | 210        | 215        | 220        | 225        | 230        | 235        | 240        | 245        | 250        | 255       | 260       | 265       | 270   | 275       | 280       | 285       | 290       |
| DATE 01-16-79          | 250   | 255        | 260        | 265        | 270        | 275        | 280        | 285        | 290        | 295        | 300        | 305       | 310       | 315       | 320   | 325       | 330       | 335       | 340       |
| NUM 50-4               | 315   | 320        | 325        | 330        | 335        | 340        | 345        | 350        | 355        | 360        | 365        | 370       | 375       | 380       | 385   | 390       | 395       | 400       | 405       |
| TAPF 25                | 400   | 405        | 410        | 415        | 420        | 425        | 430        | 435        | 440        | 445        | 450        | 455       | 460       | 465       | 470   | 475       | 480       | 485       | 490       |
| BAR 20.0 MC            | 590   | 595        | 600        | 605        | 610        | 615        | 620        | 625        | 630        | 635        | 640        | 645       | 650       | 655       | 660   | 665       | 670       | 675       | 680       |
| (00491, H/4?)          | 630   | 635        | 640        | 645        | 650        | 655        | 660        | 665        | 670        | 675        | 680        | 685       | 690       | 695       | 700   | 705       | 710       | 715       | 720       |
| TAMP 37, 1-3 F         | 800   | 805        | 810        | 815        | 820        | 825        | 830        | 835        | 840        | 845        | 850        | 855       | 860       | 865       | 870   | 875       | 880       | 885       | 890       |
| (274, LFS K)           | 1000  | 1005       | 1010       | 1015       | 1020       | 1025       | 1030       | 1035       | 1040       | 1045       | 1050       | 1055      | 1060      | 1065      | 1070  | 1075      | 1080      | 1085      | 1090      |
| TMET 34, DFG F         | 1250  | 1255       | 1260       | 1265       | 1270       | 1275       | 1280       | 1285       | 1290       | 1295       | 1300       | 1305      | 1310      | 1315      | 1320  | 1325      | 1330      | 1335      | 1340      |
| (275, LFS K)           | 1600  | 1605       | 1610       | 1615       | 1620       | 1625       | 1630       | 1635       | 1640       | 1645       | 1650       | 1655      | 1660      | 1665      | 1670  | 1675      | 1680      | 1685      | 1690      |
| MACT 4.24 L/43         | 2000  | 2005       | 2010       | 2015       | 2020       | 2025       | 2030       | 2035       | 2040       | 2045       | 2050       | 2055      | 2060      | 2065      | 2070  | 2075      | 2080      | 2085      | 2090      |
| (.00496 K/7-3)         | 2500  | 2505       | 2510       | 2515       | 2520       | 2525       | 2530       | 2535       | 2540       | 2545       | 2550       | 2555      | 2560      | 2565      | 2570  | 2575      | 2580      | 2585      | 2590      |
| NFA 8150, 224          | 3150  | 3155       | 3160       | 3165       | 3170       | 3175       | 3180       | 3185       | 3190       | 3195       | 3200       | 3205      | 3210      | 3215      | 3220  | 3225      | 3230      | 3235      | 3240      |
| ( 647, H43/SEC)        | 4000  | 4005       | 4010       | 4015       | 4020       | 4025       | 4030       | 4035       | 4040       | 4045       | 4050       | 4055      | 4060      | 4065      | 4070  | 4075      | 4080      | 4085      | 4090      |
| NFA 2131, 204          | 5000  | 5005       | 5010       | 5015       | 5020       | 5025       | 5030       | 5035       | 5040       | 5045       | 5050       | 5055      | 5060      | 5065      | 5070  | 5075      | 5080      | 5085      | 5090      |
| ( 663, H43/SEC)        | 6300  | 6305       | 6310       | 6315       | 6320       | 6325       | 6330       | 6335       | 6340       | 6345       | 6350       | 6355      | 6360      | 6365      | 6370  | 6375      | 6380      | 6385      | 6390      |
| NFB 2623, 204          | 8000  | 8005       | 8010       | 8015       | 8020       | 8025       | 8030       | 8035       | 8040       | 8045       | 8050       | 8055      | 8060      | 8065      | 8070  | 8075      | 8080      | 8085      | 8090      |
| ( 924, H43/SEC)        | 10000                                       | 10005      | 10010      | 10015      | 10020      | 10025      | 10030      | 10035      | 10040      | 10045      | 10050      | 10055     | 10060     | 10065     | 10070 | 10075     | 10080     | 10085     | 10090     |
| NO. OF BLADES 15 17509 | 74.9  | 75.3       | 75.7       | 76.1       | 76.5       | 76.9       | 77.3       | 77.7       | 78.1       | 78.5       | 78.9       | 79.3      | 79.7      | 80.1      | 80.5  | 80.9      | 81.3      | 81.7      | 82.1      |
| FAN TIP SPEED 14300    | 64.3  | 64.7       | 65.1       | 65.5       | 65.9       | 66.3       | 66.7       | 67.1       | 67.5       | 67.9       | 68.3       | 68.7      | 69.1      | 69.5      | 69.9  | 70.3      | 70.7      | 71.1      | 71.5      |
| 541, FT/SEC 29000      | 67.3  | 67.7       | 68.1       | 68.5       | 68.9       | 69.3       | 69.7       | 70.1       | 70.5       | 70.9       | 71.3       | 71.7      | 72.1      | 72.5      | 72.9  | 73.3      | 73.7      | 74.1      | 74.5      |
| 31500                  | 66.0  | 66.4       | 66.8       | 67.2       | 67.6       | 68.0       | 68.4       | 68.8       | 69.2       | 69.6       | 70.0       | 70.4      | 70.8      | 71.2      | 71.6  | 72.0      | 72.4      | 72.8      | 73.2      |
| 40000                  | 67.4  | 67.8       | 68.2       | 68.6       | 69.0       | 69.4       | 69.8       | 70.2       | 70.6       | 71.0       | 71.4       | 71.8      | 72.2      | 72.6      | 73.0  | 73.4      | 73.8      | 74.2      | 74.6      |
| 50000                  | 66.6  | 67.0       | 67.4       | 67.8       | 68.2       | 68.6       | 69.0       | 69.4       | 69.8       | 70.2       | 70.6       | 71.0      | 71.4      | 71.8      | 72.2  | 72.6      | 73.0      | 73.4      | 73.8      |
| 61000                  | 64.7  | 65.1       | 65.5       | 65.9       | 66.3       | 66.7       | 67.1       | 67.5       | 67.9       | 68.3       | 68.7       | 69.1      | 69.5      | 69.9      | 70.3  | 70.7      | 71.1      | 71.5      | 71.9      |
| 80000                  | 69.1  | 69.5       | 69.9       | 70.3       | 70.7       | 71.1       | 71.5       | 71.9       | 72.3       | 72.7       | 73.1       | 73.5      | 73.9      | 74.3      | 74.7  | 75.1      | 75.5      | 75.9      | 76.3      |
| OVERALL MEASURED       |   |            |            |            |            |            |            |            |            |            |            |           |           |           |       |           |           |           |           |
| OVERALL CALCULATED     | 80.3  | 81.0       | 81.7       | 82.4       | 83.1       | 83.8       | 84.5       | 85.2       | 85.9       | 86.6       | 87.3       | 88.0      | 88.7      | 89.4      | 90.1  | 90.8      | 91.5      | 92.2      | 92.9      |
| PNOB                   | 90.1  | 90.4       | 90.7       | 91.0       | 91.3       | 91.6       | 91.9       | 92.2       | 92.5       | 92.8       | 93.1       | 93.4      | 93.7      | 94.0      | 94.3  | 94.6      | 94.9      | 95.2      | 95.5      |

ORIGINAL PAGE IS  
OF POOR QUALITY

|                             | 33.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 154.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
| FREQ.                       | (0.92) | (1.04) | (1.24) | (1.41) | (1.70) | (1.70) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 100. | 100. | 100. | 100. | 100. | 100. |
| SIDELINE 200. FT.           | 63     | 30.3   | 37.5   | 40.2   | 42.3   | 43.0   | 43.0   | 44.0   | 45.5   | 45.9   | 47.4   | 48.3 |      |      |      |      |      |
| ( 90.98 M)                  | 100    | 49.2   | 50.7   | 49.9   | 50.6   | 49.2   | 47.0   | 40.5   | 45.5   | 47.4   | 46.6   | 49.2 |      |      |      |      |      |
| VEHICLE 9-55                | 125    | 44.7   | 46.4   | 49.1   | 48.8   | 52.7   | 49.5   | 48.3   | 49.9   | 49.8   | 48.7   | 48.8 |      |      |      |      |      |
| CONFIG 75-1A                | 160    | 44.0   | 44.0   | 45.0   | 47.7   | 48.0   | 47.9   | 49.1   | 49.3   | 49.9   | 49.8   | 48.3 |      |      |      |      |      |
| LOC SCHEMATIC               | 200    | 44.9   | 43.1   | 45.0   | 47.7   | 49.1   | 50.4   | 51.1   | 52.0   | 51.4   | 51.3   | 49.9 |      |      |      |      |      |
| DATE 01-18-75               | 250    | 45.4   | 46.5   | 48.9   | 50.6   | 51.5   | 51.5   | 51.8   | 51.2   | 51.3   | 49.8   | 47.9 |      |      |      |      |      |
| NUM 50-0                    | 315    | 47.1   | 48.4   | 49.6   | 51.8   | 51.9   | 52.0   | 51.7   | 51.1   | 50.7   | 47.4   | 46.9 |      |      |      |      |      |
| TAPE 25                     | 490    | 45.1   | 46.7   | 47.7   | 49.4   | 50.5   | 51.0   | 51.5   | 51.1   | 50.9   | 47.4   | 46.6 |      |      |      |      |      |
| VAR 20.0 MS                 | 500    | 43.7   | 45.2   | 46.7   | 49.2   | 50.0   | 51.3   | 52.1   | 52.2   | 51.5   | 49.4   | 45.5 |      |      |      |      |      |
| (20499, N/M?)               | 630    | 46.2   | 47.5   | 50.6   | 52.2   | 53.6   | 54.7   | 55.0   | 55.2   | 54.0   | 50.9   | 44.9 |      |      |      |      |      |
| TAMP 37, DFC F              | 800    | 40.6   | 40.0   | 49.7   | 51.9   | 52.0   | 53.6   | 55.0   | 54.7   | 53.1   | 50.8   | 43.9 |      |      |      |      |      |
| (270, DFC F)                | 1000   | 40.1   | 40.0   | 49.4   | 51.2   | 51.1   | 53.4   | 57.1   | 57.2   | 56.4   | 54.7   | 44.5 |      |      |      |      |      |
| TWET 35, DFC F              | 1250   | 47.0   | 47.7   | 50.8   | 53.7   | 50.8   | 50.8   | 50.8   | 50.4   | 50.1   | 54.6   | 45.0 |      |      |      |      |      |
| (275, DFC F)                | 1600   | 53.2   | 55.1   | 56.6   | 62.6   | 60.0   | 60.2   | 67.2   | 65.3   | 64.5   | 62.2   | 49.4 |      |      |      |      |      |
| NACT 4.00 G/M <sup>3</sup>  | 2000   | 49.8   | 50.3   | 54.5   | 54.3   | 60.6   | 62.0   | 63.3   | 61.7   | 60.1   | 59.2   | 45.7 |      |      |      |      |      |
| (.00400 KC/M <sup>3</sup> ) | 2500   | 47.0   | 49.6   | 53.5   | 50.4   | 59.0   | 62.2   | 63.3   | 62.2   | 60.0   | 54.7   | 44.2 |      |      |      |      |      |
| NFA 6195, RPM               | 3150   | 46.5   | 52.0   | 54.5   | 50.9   | 62.2   | 64.0   | 65.5   | 65.0   | 60.2   | 56.0   | 49.3 |      |      |      |      |      |
| ( 649, RAD/SEC)             | 4000   | 43.0   | 46.3   | 48.0   | 53.4   | 57.3   | 59.7   | 61.0   | 59.7   | 59.4   | 52.0   | 41.9 |      |      |      |      |      |
| NFR 6331, RPM               | 5200   | 42.9   | 44.3   | 44.1   | 52.0   | 55.3   | 59.2   | 61.5   | 59.9   | 57.6   | 51.6   | 41.0 |      |      |      |      |      |
| ( 663, RAD/SEC)             | 6350   | 44.7   | 42.6   | 45.0   | 49.7   | 54.5   | 57.2   | 59.7   | 59.5   | 57.9   | 49.0   | 38.3 |      |      |      |      |      |
| NFD 8825, RPM               | 8000   | 38.7   | 43.0   | 45.2   | 50.0   | 53.3   | 50.4   | 50.9   | 50.0   | 57.3   | 46.7   | 36.0 |      |      |      |      |      |
| ( 924, RAD/SEC)             | 10000  | 43.4   | 49.7   | 54.6   | 60.2   | 64.6   | 60.2   | 62.4   | 60.5   | 59.0   | 50.2   | 34.9 |      |      |      |      |      |
| NO. OF BLADES 15            | 12500  | 41.0   | 46.4   | 52.5   | 56.6   | 62.1   | 63.0   | 68.3   | 58.5   | 55.0   | 43.0   | 29.5 |      |      |      |      |      |
| FAN TIP SPEED 10000         | 20000  | 29.9   | 35.7   | 40.4   | 47.2   | 50.5   | 50.0   | 52.0   | 52.5   | 48.2   | 35.0   | 16.0 |      |      |      |      |      |
| 541, FT/SEC                 | 25000  | 22.0   | 28.6   | 33.8   | 37.9   | 41.0   | 44.5   | 46.1   | 46.3   | 43.6   | 24.0   | 4.9  |      |      |      |      |      |
|                             | 31500  | 14.0   | 20.0   | 21.0   | 27.0   | 31.5   | 34.0   | 36.5   | 35.1   | 30.7   | 14.0   |      |      |      |      |      |      |
|                             | 40000  |        | 9.4    | 9.5    | 10.8   | 20.3   | 22.7   | 23.6   | 22.1   | 19.0   |        |      |      |      |      |      |      |
|                             | 50000  |        |        |        |        | 3.6    | 0.2    | 0.5    | 1.0    |        |        |      |      |      |      |      |      |
|                             | 61000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                             | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| OVERALL CALCULATED          |        | 60.2   | 62.0   | 64.0   | 60.8   | 71.0   | 73.5   | 73.0   | 72.7   | 72.0   | 67.0   | 50.9 |      |      |      |      |      |
| PROB                        |        | 71.0   | 74.0   | 77.2   | 81.0   | 84.0   | 89.2   | 87.4   | 88.5   | 84.4   | 79.0   | 78.4 |      |      |      |      |      |



MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

PROC. DATE - MONTH & DAY 29 MR, 20.1

|                     | 51     | 67     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0    | 0   | 0   | 0   | 0   | 0   | PWL   |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|-------|
|                     | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0) |       |
| RADIAL 17, FT.      | 63     | 63.1   | 63.4   | 78.7   | 65.7   | 66.0   | 67.0   | 69.7   | 71.7   | 79.0   | 77.1   | 79.9 |     |     |     |     |     | 109.4 |
| ( 5, M)             | 80     | 67.2   | 73.2   | 82.3   | 71.8   | 71.0   | 71.0   | 70.8   | 71.8   | 76.5   | 76.1   | 80.7 |     |     |     |     |     | 119.4 |
| VEHICLE R-35        | 100    | 73.9   | 80.3   | 85.1   | 78.1   | 76.6   | 75.1   | 74.1   | 77.1   | 78.8   | 78.9   | 80.8 |     |     |     |     |     | 113.3 |
| CONFIG 75-1A        | 125    | 78.7   | 71.7   | 81.0   | 72.5   | 72.5   | 72.8   | 75.0   | 76.0   | 77.5   | 79.9   | 81.0 |     |     |     |     |     | 110.7 |
| LOC SCHEMECTADY     | 160    | 70.5   | 70.6   | 81.3   | 72.6   | 73.9   | 75.9   | 76.6   | 78.1   | 77.9   | 80.9   | 81.0 |     |     |     |     |     | 111.6 |
| DATE 01-16-75       | 200    | 72.7   | 74.0   | 82.3   | 75.8   | 76.3   | 76.8   | 76.6   | 78.8   | 77.9   | 80.2   | 80.3 |     |     |     |     |     | 112.4 |
| HUN 50-2            | 250    | 74.2   | 75.6   | 83.8   | 76.4   | 76.6   | 77.6   | 77.6   | 77.9   | 76.9   | 80.2   | 79.5 |     |     |     |     |     | 112.7 |
| TAPE 25             | 315    | 71.9   | 74.0   | 82.8   | 75.0   | 75.8   | 76.2   | 77.0   | 77.3   | 75.8   | 79.9   | 78.7 |     |     |     |     |     | 111.8 |
| MAN 29.8 HG         | 400    | 70.8   | 72.1   | 82.2   | 74.9   | 75.7   | 76.4   | 77.9   | 78.4   | 76.9   | 80.0   | 78.3 |     |     |     |     |     | 111.8 |
| (00699, N/M2)       | 500    | 74.0   | 74.5   | 82.6   | 77.6   | 78.3   | 79.6   | 81.3   | 81.6   | 78.4   | 80.9   | 78.0 |     |     |     |     |     | 111.6 |
| TAMB 37, DFG F      | 630    | 74.5   | 75.3   | 83.1   | 77.1   | 77.9   | 79.1   | 80.6   | 81.2   | 78.2   | 80.8   | 77.8 |     |     |     |     |     | 113.9 |
| (276, DEG K)        | 800    | 73.2   | 75.3   | 83.6   | 78.3   | 77.8   | 80.8   | 82.3   | 83.4   | 81.4   | 81.7   | 77.7 |     |     |     |     |     | 114.9 |
| TNET 35, DFG F      | 1000   | 73.5   | 74.6   | 84.4   | 78.4   | 80.6   | 82.8   | 84.8   | 85.4   | 81.4   | 82.8   | 78.3 |     |     |     |     |     | 115.4 |
| (275, DEG K)        | 1250   | 80.2   | 79.7   | 86.2   | 86.0   | 89.2   | 91.2   | 92.9   | 92.3   | 88.3   | 88.9   | 81.4 |     |     |     |     |     | 123.4 |
| MACT 4.84 G/M3      | 1600   | 77.3   | 79.3   | 87.6   | 85.6   | 88.1   | 90.8   | 92.0   | 91.4   | 87.7   | 87.5   | 81.0 |     |     |     |     |     | 122.7 |
| (.00484 KG/M3)      | 2000   | 72.7   | 77.6   | 85.8   | 83.1   | 86.8   | 88.5   | 89.4   | 89.1   | 86.7   | 84.0   | 79.4 |     |     |     |     |     | 126.5 |
| NFA 6963, RPM       | 2500   | 75.5   | 79.3   | 86.1   | 83.9   | 87.8   | 90.0   | 92.5   | 92.2   | 91.0   | 87.1   | 81.7 |     |     |     |     |     | 123.0 |
| ( 729, RAD/SEC)     | 3150   | 73.8   | 75.6   | 83.5   | 81.4   | 85.3   | 88.2   | 90.7   | 90.2   | 86.0   | 85.4   | 79.9 |     |     |     |     |     | 120.9 |
| NFK 7110, RPM       | 4000   | 74.1   | 73.6   | 82.3   | 78.9   | 82.6   | 87.2   | 90.7   | 89.9   | 85.5   | 85.1   | 80.9 |     |     |     |     |     | 120.1 |
| ( 745, RAD/SEC)     | 5000   | 75.2   | 72.4   | 81.8   | 78.1   | 80.8   | 86.5   | 88.1   | 89.1   | 86.8   | 84.7   | 80.8 |     |     |     |     |     | 119.2 |
| NFD 8823, RPM       | 6300   | 71.9   | 73.1   | 82.7   | 78.5   | 81.4   | 86.4   | 84.4   | 90.0   | 87.5   | 85.4   | 81.8 |     |     |     |     |     | 119.8 |
| ( 924, RAD/SEC)     | 8000   | 73.5   | 75.6   | 84.8   | 83.7   | 85.6   | 89.0   | 91.0   | 92.4   | 90.4   | 87.8   | 83.1 |     |     |     |     |     | 122.7 |
| NO. OF BLADES 15    | 10000  | 76.6   | 80.5   | 89.3   | 89.9   | 93.6   | 95.1   | 92.6   | 93.3   | 90.5   | 88.3   | 84.7 |     |     |     |     |     | 126.1 |
| FAN TIP SPEED 16000 | 15000  | 71.5   | 75.2   | 85.7   | 83.9   | 86.9   | 89.6   | 91.4   | 92.6   | 89.3   | 89.1   | 84.7 |     |     |     |     |     | 123.5 |
| 608, FT/SEC         | 20000  | 70.1   | 73.1   | 85.9   | 80.8   | 83.4   | 86.6   | 89.9   | 92.1   | 90.2   | 90.5   | 85.4 |     |     |     |     |     | 123.2 |
|                     | 25000  | 70.5   | 72.0   | 85.6   | 78.6   | 80.9   | 84.8   | 87.6   | 90.5   | 88.3   | 91.1   | 87.3 |     |     |     |     |     | 122.6 |
|                     | 31500  | 74.0   | 71.5   | 84.9   | 78.0   | 79.3   | 82.8   | 86.4   | 89.9   | 86.3   | 88.0   | 84.9 |     |     |     |     |     | 121.7 |
|                     | 40000  | 71.8   | 71.9   | 85.4   | 78.8   | 79.0   | 81.6   | 84.8   | 86.5   | 85.1   | 88.2   | 87.1 |     |     |     |     |     | 122.4 |
|                     | 50000  | 70.3   | 70.0   | 83.3   | 76.5   | 75.5   | 75.4   | 78.0   | 80.0   | 78.4   | 85.1   | 84.7 |     |     |     |     |     | 123.1 |
|                     | 63000  | 67.0   | 66.2   | 78.4   | 72.8   | 70.8   | 68.8   | 68.5   | 71.8   | 71.4   | 81.3   | 78.2 |     |     |     |     |     | 117.4 |
|                     | 80000  | 68.1   | 68.4   | 71.2   | 68.0   | 68.0   | 65.4   | 66.0   | 65.2   | 73.5   | 72.5   | 74.8 |     |     |     |     |     | 117.2 |
| OVERALL MEASURED    |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
| OVERALL CALCULATED  | 88.5   | 90.3   | 99.1   | 95.9   | 98.8   | 101.2  | 102.5  | 104.1  | 100.7  | 100.5  | 97.8   |      |     |     |     |     |     | 134.9 |
| PNOB                | 100.2  | 102.3  | 110.1  | 106.7  | 109.8  | 112.2  | 114.3  | 114.3  | 112.4  | 110.5  | 106.2  |      |     |     |     |     |     |       |

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
 PROC. DATE - MONTH & DAY 20 HR. 20.1  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.                            | 05.    | 07.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 154.   | 0.  | 0. | 0. | 0. | 0. | 0.  |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|----|----|----|----|-----|
|                                  | (0.92) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.12) | (2.32) | (2.52) | (2.73) | (0. | 0. | 0. | 0. | 0. | 0.) |
| SIDELINE 200. FT,<br>( 80.98 M)  | 39.5   | 40.8   | 56.7   | 44.1   | 44.9   | 45.8   | 47.0   | 48.7   | 54.7   | 50.6   | 50.0   |     |    |    |    |    |     |
| VEHICLE R-55                     | 43.5   | 50.2   | 60.2   | 53.1   | 49.4   | 49.3   | 48.5   | 48.7   | 54.1   | 51.6   | 50.7   |     |    |    |    |    |     |
| CONFIG 75-1A                     | 49.7   | 57.5   | 62.9   | 56.3   | 54.9   | 53.3   | 51.8   | 53.9   | 54.3   | 52.2   | 50.5   |     |    |    |    |    |     |
| LOC SCHEMERTADY                  | 48.8   | 48.8   | 58.8   | 50.7   | 50.8   | 50.9   | 52.6   | 52.8   | 52.9   | 53.0   | 56.5   |     |    |    |    |    |     |
| DATE 01-16-75                    | 48.5   | 47.8   | 59.0   | 50.7   | 52.1   | 53.9   | 54.1   | 54.8   | 53.1   | 54.0   | 50.4   |     |    |    |    |    |     |
| HUM 50-2                         | 48.7   | 51.0   | 59.9   | 53.8   | 50.5   | 54.8   | 56.1   | 55.4   | 53.8   | 53.1   | 49.4   |     |    |    |    |    |     |
| TAPP 400                         | 50.1   | 52.4   | 61.4   | 54.3   | 54.6   | 55.5   | 55.0   | 54.3   | 51.9   | 52.9   | 48.4   |     |    |    |    |    |     |
| BAR 29.0 HG<br>(1006.8 N/42)     | 47.6   | 50.7   | 60.2   | 52.8   | 53.7   | 54.0   | 54.3   | 53.6   | 50.7   | 52.4   | 47.4   |     |    |    |    |    |     |
| TAMP 37. DEG F                   | 48.4   | 48.7   | 59.5   | 52.7   | 53.5   | 54.1   | 55.1   | 54.7   | 51.7   | 52.4   | 46.8   |     |    |    |    |    |     |
| (276. DEG K)                     | 49.5   | 51.0   | 59.8   | 53.2   | 56.1   | 57.2   | 58.4   | 57.7   | 53.0   | 53.2   | 46.2   |     |    |    |    |    |     |
| THEY 39. DEG F                   | 47.8   | 51.7   | 60.2   | 54.6   | 55.5   | 56.6   | 57.5   | 57.2   | 52.6   | 54.0   | 45.6   |     |    |    |    |    |     |
| (273. DEG K)                     | 48.4   | 51.3   | 60.9   | 55.7   | 55.3   | 58.1   | 59.1   | 59.2   | 55.7   | 53.5   | 45.3   |     |    |    |    |    |     |
| WACT 4.00 CM/MS<br>(.00404 M/MS) | 48.9   | 50.7   | 61.2   | 55.7   | 58.0   | 60.1   | 61.5   | 61.1   | 55.8   | 54.4   | 45.5   |     |    |    |    |    |     |
| NFA 6963. RPM<br>( 720. RAD/SEC) | 49.9   | 55.6   | 64.9   | 63.1   | 66.5   | 68.2   | 69.4   | 67.0   | 62.2   | 60.2   | 48.1   |     |    |    |    |    |     |
| NFR 7113. RPM<br>( 745. RAD/SEC) | 53.8   | 55.0   | 64.0   | 62.5   | 65.1   | 67.6   | 68.3   | 66.7   | 61.3   | 58.5   | 47.2   |     |    |    |    |    |     |
| NFD 8223. RPM<br>( 920. RAD/SEC) | 50.1   | 53.3   | 62.0   | 59.8   | 63.7   | 65.2   | 65.6   | 64.2   | 60.0   | 54.7   | 45.2   |     |    |    |    |    |     |
| NO. OF BLADES 15                 | 47.2   | 50.5   | 57.1   | 57.4   | 61.5   | 64.2   | 66.1   | 64.4   | 60.4   | 54.8   | 43.9   |     |    |    |    |    |     |
| FAN TIP SPEED 600, FT/SEC        | 49.2   | 48.3   | 57.6   | 54.7   | 58.5   | 62.9   | 65.8   | 63.9   | 57.6   | 51.1   | 44.3   |     |    |    |    |    |     |
| 25000                            | 45.5   | 46.3   | 56.4   | 53.2   | 58.0   | 61.9   | 62.5   | 62.2   | 57.9   | 52.4   | 42.3   |     |    |    |    |    |     |
| 40000                            | 42.7   | 45.3   | 56.1   | 52.5   | 59.6   | 60.4   | 61.6   | 61.0   | 57.1   | 51.2   | 40.5   |     |    |    |    |    |     |
| 50000                            | 42.4   | 46.2   | 56.6   | 56.2   | 58.3   | 61.4   | 62.6   | 62.5   | 57.8   | 50.9   | 37.9   |     |    |    |    |    |     |
| 60000                            | 42.7   | 48.6   | 56.7   | 60.1   | 64.1   | 65.3   | 61.8   | 60.7   | 54.9   | 47.5   | 33.7   |     |    |    |    |    |     |
| 70000                            | 34.9   | 39.2   | 51.4   | 50.5   | 54.7   | 58.1   | 58.7   | 55.8   | 48.7   | 41.8   | 24.3   |     |    |    |    |    |     |
| 80000                            | 29.5   | 31.0   | 46.5   | 42.6   | 45.5   | 48.2   | 50.1   | 49.5   | 42.0   | 34.8   | 12.8   |     |    |    |    |    |     |
| 90000                            | 17.2   | 22.0   | 39.1   | 33.5   | 36.3   | 39.5   | 40.5   | 39.8   | 31.5   | 28.2   |        |     |    |    |    |    |     |
| 100000                           | 4.0    | 10.9   | 27.8   | 22.0   | 24.8   | 27.9   | 28.6   | 28.4   | 19.5   | 2.4    |        |     |    |    |    |    |     |
| 150000                           |        |        | 12.0   | 8.6    | 9.6    | 11.2   | 11.1   | 9.4    |        |        |        |     |    |    |    |    |     |
| 200000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 250000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 300000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 350000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 400000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 450000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 500000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 550000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 600000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 650000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 700000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 750000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 800000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 850000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 900000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 950000                           |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| 1000000                          |        |        |        |        |        |        |        |        |        |        |        |     |    |    |    |    |     |
| OVERALL CALCULATED               | 62.4   | 65.3   | 74.0   | 70.7   | 73.6   | 75.7   | 76.7   | 75.5   | 71.2   | 67.9   | 61.0   |     |    |    |    |    |     |
| PROB                             | 74.3   | 77.6   | 86.1   | 83.1   | 86.3   | 88.9   | 90.0   | 88.9   | 85.3   | 80.6   | 71.8   |     |    |    |    |    |     |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (99, 95, 90, 85, 80, 75 PERCENT REL. HUM. DAY)

PMDC DATE = MONTH 4 DAY 29 HR: 20.1

ANGLES FROM [MILIT IN DEGREES (AND RADIANS)]

| FREQ.               | PMDC DATE = MONTH 4 DAY 29 HR: 20.1 |        |        |        |        |        |        |        |        |        |        |       |      |    | PML |    |       |
|---------------------|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|----|-----|----|-------|
|                     | 93                                  | 67     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0     | 91   | 81 |     | 91 |       |
|                     | (0.92)                              | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.   | 91   | 81 | 91  | 91 |       |
| RADIAL 17. FT.      | 50                                  | 53     | 56.4   | 59.7   | 62.9   | 66.7   | 68.5   | 66.2   | 66.7   | 63.7   | 64.2   | 70.3  | 78.7 |    |     |    | 117.2 |
| ( 3, 4)             | 100                                 | 83.9   | 83.0   | 74.2   | 70.0   | 71.8   | 65.8   | 65.5   | 62.5   | 62.8   | 79.4   | 79.5  |      |    |     |    | 116.3 |
| VEHICLE R-55        | 125                                 | 83.7   | 81.0   | 77.1   | 73.3   | 74.1   | 63.8   | 65.3   | 63.8   | 63.8   | 80.2   | 80.0  |      |    |     |    | 115.2 |
| CONFIG 75-1A        | 180                                 | 83.2   | 79.7   | 76.0   | 71.5   | 71.5   | 63.8   | 64.5   | 62.0   | 63.0   | 81.1   | 80.0  |      |    |     |    | 115.5 |
| LOC SCHENECTADY     | 200                                 | 81.0   | 78.8   | 75.1   | 70.1   | 71.4   | 64.4   | 64.6   | 62.1   | 63.1   | 82.2   | 80.8  |      |    |     |    | 115.4 |
| DATE 01-10-75       | 250                                 | 81.0   | 80.9   | 77.1   | 74.8   | 75.1   | 64.3   | 64.8   | 63.8   | 64.6   | 83.4   | 79.8  |      |    |     |    | 115.3 |
| HUM 50-6            | 315                                 | 81.9   | 81.3   | 77.3   | 74.9   | 74.4   | 63.1   | 64.6   | 61.9   | 62.1   | 80.9   | 77.5  |      |    |     |    | 115.2 |
| TAPE 25             | 400                                 | 78.7   | 80.7   | 76.3   | 74.0   | 75.0   | 62.0   | 64.0   | 62.0   | 62.0   | 80.4   | 77.2  |      |    |     |    | 114.6 |
| MAN 20.8 MC         | 500                                 | 78.6   | 78.9   | 76.2   | 72.7   | 72.9   | 61.2   | 63.6   | 61.9   | 61.9   | 81.0   | 77.8  |      |    |     |    | 114.2 |
| (06488, N/42)       | 630                                 | 78.5   | 80.8   | 77.0   | 75.6   | 76.1   | 62.3   | 63.8   | 63.1   | 63.1   | 81.4   | 77.0  |      |    |     |    | 114.1 |
| TANN 38, DEG F      | 833                                 | 79.0   | 79.8   | 77.6   | 74.6   | 75.9   | 61.4   | 63.3   | 63.2   | 62.7   | 81.7   | 76.3  |      |    |     |    | 114.7 |
| (276, DEG K)        | 1000                                | 79.5   | 79.3   | 78.8   | 74.3   | 75.3   | 61.5   | 64.3   | 64.9   | 65.4   | 82.2   | 75.7  |      |    |     |    | 115.7 |
| TNET 35, DEG F      | 1250                                | 79.3   | 79.6   | 78.4   | 76.2   | 78.1   | 64.1   | 66.1   | 66.2   | 65.9   | 83.0   | 77.8  |      |    |     |    | 117.1 |
| (279, DEG K)        | 1600                                | 78.9   | 79.2   | 80.2   | 80.3   | 81.5   | 67.2   | 69.9   | 69.6   | 68.6   | 84.7   | 76.9  |      |    |     |    | 125.3 |
| MACT 4.54 CM/M3     | 2000                                | 82.0   | 85.0   | 84.8   | 86.9   | 86.8   | 93.8   | 96.8   | 97.4   | 95.9   | 90.1   | 82.0  |      |    |     |    | 127.0 |
| (.00454 KG/M3)      | 2500                                | 83.5   | 81.0   | 81.5   | 83.1   | 85.3   | 91.0   | 91.8   | 90.9   | 91.7   | 89.3   | 77.2  |      |    |     |    | 122.3 |
| MFA 7740, DPM       | 3150                                | 78.0   | 80.0   | 80.3   | 82.2   | 84.1   | 90.2   | 92.5   | 91.9   | 93.0   | 80.8   | 78.9  |      |    |     |    | 122.9 |
| ( 810, RAD/SEC)     | 4000                                | 77.3   | 79.1   | 78.8   | 81.2   | 83.1   | 91.2   | 93.4   | 92.9   | 94.0   | 87.6   | 79.9  |      |    |     |    | 123.8 |
| MFK 7932, DPM       | 5000                                | 79.1   | 77.6   | 77.8   | 78.9   | 81.3   | 88.5   | 91.2   | 89.9   | 90.0   | 86.6   | 76.4  |      |    |     |    | 121.0 |
| ( 827, RAD/SEC)     | 6300                                | 78.8   | 77.9   | 77.0   | 80.1   | 82.1   | 88.2   | 91.9   | 91.6   | 92.3   | 87.0   | 77.8  |      |    |     |    | 122.2 |
| MFS 8823, DPM       | 8070                                | 77.4   | 78.9   | 79.0   | 79.8   | 80.7   | 88.0   | 91.4   | 91.8   | 92.3   | 87.7   | 79.3  |      |    |     |    | 122.2 |
| ( 924, RAD/SEC)     | 10000                               | 75.3   | 79.6   | 80.6   | 83.2   | 85.2   | 90.6   | 93.1   | 93.0   | 93.2   | 89.8   | 80.7  |      |    |     |    | 125.0 |
| NO. OF BLADES 15    | 12500                               | 75.9   | 78.8   | 81.1   | 83.7   | 85.4   | 91.7   | 92.9   | 94.0   | 94.6   | 89.6   | 80.2  |      |    |     |    | 125.1 |
| FAN TIP SPEED 15300 | 15300                               | 75.5   | 86.0   | 82.3   | 84.2   | 85.2   | 89.7   | 92.5   | 94.5   | 93.7   | 90.9   | 81.8  |      |    |     |    | 124.9 |
| 676, FT/SEC         | 27000                               | 80.0   | 83.2   | 81.5   | 82.7   | 84.5   | 89.9   | 93.5   | 93.2   | 95.3   | 93.4   | 82.0  |      |    |     |    | 126.4 |
| OVERALL MEAS'D      | 25000                               | 81.0   | 82.3   | 79.1   | 83.8   | 83.9   | 88.3   | 92.1   | 93.0   | 95.1   | 90.5   | 84.3  |      |    |     |    | 126.5 |
| OVERALL CALCULATED  | 31500                               | 80.3   | 81.8   | 78.9   | 82.3   | 84.1   | 86.8   | 90.4   | 92.7   | 92.8   | 93.3   | 81.4  |      |    |     |    | 125.9 |
|                     | 40000                               | 80.6   | 80.7   | 78.6   | 83.3   | 84.2   | 86.3   | 89.0   | 90.7   | 90.1   | 91.9   | 83.1  |      |    |     |    | 125.8 |
|                     | 50000                               | 81.2   | 79.4   | 76.0   | 80.9   | 80.9   | 81.8   | 84.4   | 82.2   | 83.8   | 89.3   | 81.1  |      |    |     |    | 123.6 |
|                     | 63000                               | 78.0   | 76.0   | 73.9   | 75.6   | 75.6   | 76.4   | 78.3   | 80.4   | 76.2   | 82.9   | 74.8  |      |    |     |    | 120.7 |
|                     | 80000                               | 75.1   | 81.1   | 65.9   | 75.2   | 70.5   | 75.1   | 70.3   | 76.0   | 75.0   | 73.8   | 69.9  |      |    |     |    | 121.9 |
|                     |                                     | 93.6   | 95.6   | 93.8   | 95.3   | 96.5   | 102.5  | 104.9  | 109.6  | 105.6  | 102.8  | 94.6  |      |    |     |    | 137.2 |
|                     |                                     | 109.3  | 106.7  | 109.3  | 106.1  | 107.2  | 114.3  | 116.6  | 119.9  | 116.9  | 113.4  | 104.5 |      |    |     |    |       |

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.              | 03     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 15A    | 0     | 0     | 0     | 0     | 0     |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
|                    | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) |
| SIDFLINE 200. FT.  | 63     | 61.8   | 61.0   | 50.4   | 45.1   | 47.0   | 64.5   | 64.6   | 60.7   | 59.9   | 51.9   | 48.8  |       |       |       |       |
| ( 90.98 M)         | 80     | 60.2   | 60.2   | 52.4   | 48.3   | 50.2   | 64.0   | 63.3   | 59.5   | 58.4   | 52.8   | 49.4  |       |       |       |       |
| VEHICLE R-35       | 125    | 59.9   | 59.0   | 54.9   | 51.5   | 52.4   | 62.0   | 63.0   | 60.7   | 59.3   | 53.5   | 49.8  |       |       |       |       |
| CONFIG 75-14       | 160    | 59.3   | 56.8   | 53.8   | 49.7   | 49.8   | 61.9   | 62.1   | 59.5   | 58.4   | 54.3   | 49.5  |       |       |       |       |
| LOC SCHEMECTADY    | 250    | 57.0   | 55.8   | 52.8   | 48.2   | 49.6   | 62.4   | 62.1   | 58.8   | 58.4   | 55.2   | 50.1  |       |       |       |       |
| DATE 01-16-79      | 250    | 56.9   | 57.5   | 54.7   | 52.8   | 53.2   | 62.3   | 62.3   | 60.4   | 59.8   | 56.3   | 48.9  |       |       |       |       |
| RUN 50-0           | 315    | 57.3   | 58.1   | 54.9   | 52.8   | 52.4   | 61.0   | 62.0   | 58.3   | 57.2   | 54.7   | 46.4  |       |       |       |       |
| TAPP 25            | 400    | 54.4   | 57.4   | 53.7   | 51.8   | 53.0   | 59.8   | 61.3   | 58.4   | 56.9   | 52.9   | 45.9  |       |       |       |       |
| BAR 79.8 HG        | 500    | 54.2   | 55.5   | 53.5   | 50.4   | 50.8   | 58.8   | 60.8   | 58.2   | 56.7   | 53.4   | 46.3  |       |       |       |       |
| (100498; N/M?)     | 630    | 54.0   | 57.3   | 54.8   | 53.2   | 53.8   | 59.9   | 60.9   | 59.2   | 57.7   | 54.7   | 45.2  |       |       |       |       |
| TAMP 34; DEG F     | 800    | 54.3   | 56.2   | 54.7   | 52.1   | 53.5   | 58.8   | 60.3   | 59.2   | 57.1   | 54.8   | 44.1  |       |       |       |       |
| (276; DEG K)       | 1000   | 51.6   | 55.5   | 55.8   | 51.7   | 52.8   | 58.9   | 61.1   | 60.7   | 59.7   | 55.0   | 43.3  |       |       |       |       |
| TWET 35; DEG F     | 1250   | 53.3   | 55.7   | 55.2   | 53.4   | 55.5   | 61.3   | 62.8   | 61.9   | 60.1   | 54.6   | 45.0  |       |       |       |       |
| (275; DEG K)       | 1600   | 53.7   | 55.1   | 56.9   | 57.4   | 58.7   | 64.2   | 66.4   | 65.1   | 62.5   | 59.9   | 43.6  |       |       |       |       |
| MACT 4.54 GM/M3    | 2000   | 60.6   | 61.5   | 61.3   | 63.8   | 63.9   | 70.7   | 73.1   | 72.7   | 69.6   | 61.0   | 48.2  |       |       |       |       |
| (.00454 KG/M3)     | 2500   | 54.8   | 57.5   | 57.8   | 59.8   | 62.2   | 67.7   | 67.6   | 65.9   | 65.0   | 59.9   | 43.0  |       |       |       |       |
| NFA 7740 RPM       | 3150   | 52.0   | 55.8   | 56.3   | 55.6   | 60.7   | 66.7   | 68.3   | 66.7   | 66.0   | 57.0   | 44.0  |       |       |       |       |
| ( 810; RAD/SEC)    | 4000   | 50.8   | 53.8   | 54.4   | 57.2   | 59.3   | 67.2   | 68.8   | 67.2   | 66.4   | 57.0   | 43.9  |       |       |       |       |
| NFK 7922 RPM       | 5000   | 48.2   | 52.1   | 53.1   | 54.7   | 57.3   | 64.2   | 66.3   | 63.9   | 62.1   | 55.6   | 39.8  |       |       |       |       |
| ( 827; RAD/SEC)    | 6300   | 51.0   | 51.5   | 52.2   | 55.2   | 57.3   | 63.3   | 66.3   | 64.7   | 63.4   | 54.7   | 39.4  |       |       |       |       |
| NFD 8823 RPM       | 8000   | 48.3   | 51.3   | 51.4   | 53.8   | 54.9   | 61.9   | 64.6   | 63.6   | 61.8   | 53.5   | 38.1  |       |       |       |       |
| ( 924; RAD/SEC)    | 10000  | 47.2   | 50.3   | 52.4   | 55.7   | 57.9   | 63.0   | 64.6   | 62.0   | 62.6   | 52.9   | 35.5  |       |       |       |       |
| NO. OF BLADES 15   | 12500  | 45.0   | 46.9   | 50.6   | 53.9   | 55.9   | 61.8   | 62.1   | 62.3   | 58.9   | 48.8   | 29.3  |       |       |       |       |
| FAN TIP SPEED      | 16000  | 41.0   | 44.6   | 45.0   | 50.6   | 52.1   | 56.2   | 57.8   | 57.6   | 53.0   | 43.6   | 21.4  |       |       |       |       |
| 676. FT/SEC        | 20000  | 35.4   | 41.7   | 42.1   | 44.4   | 46.6   | 51.6   | 53.7   | 52.6   | 48.0   | 37.6   | 9.2   |       |       |       |       |
|                    | 25000  | 27.7   | 33.0   | 32.5   | 38.7   | 39.2   | 43.0   | 45.0   | 43.3   | 38.2   | 26.7   |       |       |       |       |       |
|                    | 31500  | 19.2   | 21.2   | 21.6   | 27.1   | 29.5   | 31.5   | 32.6   | 30.1   | 22.1   | 7.7    |       |       |       |       |       |
|                    | 40000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |
|                    | 50000  |        | 3.1    | 5.8    | 13.1   | 14.9   | 15.9   | 15.3   | 10.5   |        |        |       |       |       |       |       |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |
| OVERALL CALCULATED |        | 69.9   | 70.5   | 68.7   | 69.3   | 70.7   | 77.7   | 79.2   | 77.9   | 76.0   | 68.8   | 59.8  |       |       |       |       |
| PNDB               |        | 80.5   | 82.8   | 81.4   | 82.7   | 83.7   | 90.6   | 92.5   | 91.4   | 89.2   | 81.5   | 69.6  |       |       |       |       |

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MODEL SOUND PRESSURE LEVELS (59, DEC, F, 70 PERCENT REL. HUM, DAY)  
 PROC. DATE = MONTH 4 DAY 29 HR: 20.1  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                    | 93     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0    | 0   | 0   | 0   | 0   | 0   | PWL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|-------|
| FREQ.              | (0,92) | (1,00) | (1,24) | (1,41) | (1,58) | (1,76) | (1,94) | (2,13) | (2,32) | (2,52) | (2,73) | (0,  | (0, | (0, | (0, | (0, | (0, | )     |
| RADIAL 17, FT.     | 80     | 85.6   | 85.2   | 86.7   | 88.2   | 88.0   | 89.9   | 72.7   | 74.2   | 76.7   | 80.8   | 85.7 |     |     |     |     |     | 115.1 |
| ( 9, MI)           | 100    | 88.9   | 79.7   | 71.9   | 72.0   | 72.5   | 72.8   | 73.3   | 73.8   | 77.8   | 81.9   | 86.9 |     |     |     |     |     | 111.3 |
| VEHICLE R-55       | 125    | 74.2   | 77.5   | 78.3   | 75.8   | 77.1   | 76.8   | 78.3   | 79.6   | 80.3   | 82.4   | 86.3 |     |     |     |     |     | 113.4 |
| CONFIG 75-1A       | 160    | 72.9   | 74.7   | 74.9   | 75.3   | 75.3   | 75.8   | 77.8   | 79.0   | 81.5   | 83.6   | 86.7 |     |     |     |     |     | 113.4 |
| LOC SCHNECTADY     | 200    | 72.9   | 73.1   | 73.8   | 74.9   | 76.9   | 78.9   | 79.6   | 80.9   | 82.1   | 84.7   | 87.9 |     |     |     |     |     | 114.5 |
| DATE 01-16-75      | 250    | 76.2   | 77.8   | 79.1   | 79.6   | 80.1   | 81.1   | 82.3   | 83.3   | 84.4   | 85.9   | 87.3 |     |     |     |     |     | 116.4 |
| HUN 50-7           | 315    | 77.0   | 78.8   | 78.8   | 79.4   | 79.4   | 80.4   | 81.1   | 81.1   | 82.4   | 83.9   | 86.0 |     |     |     |     |     | 115.2 |
| TAPE 25            | 400    | 75.7   | 77.0   | 77.9   | 77.8   | 78.3   | 78.7   | 80.5   | 80.8   | 82.0   | 83.1   | 85.4 |     |     |     |     |     | 114.3 |
| BAR 29.8 HG        | 500    | 73.8   | 75.1   | 75.7   | 76.9   | 77.7   | 78.9   | 80.6   | 81.4   | 82.4   | 83.3   | 84.8 |     |     |     |     |     | 114.1 |
| (00698, N/42)      | 630    | 75.7   | 76.3   | 78.3   | 79.3   | 80.1   | 81.6   | 83.5   | 83.6   | 84.1   | 84.2   | 84.8 |     |     |     |     |     | 115.9 |
| TMR 39, DFG F      | 800    | 76.8   | 77.8   | 78.4   | 79.1   | 80.1   | 81.6   | 83.3   | 83.4   | 83.9   | 84.2   | 85.0 |     |     |     |     |     | 115.7 |
| (276, LFG K)       | 1000   | 75.5   | 76.8   | 73.1   | 78.8   | 80.1   | 82.3   | 84.5   | 85.6   | 85.9   | 84.2   | 82.5 |     |     |     |     |     | 116.7 |
| TMET 35, DFG F     | 1250   | 76.8   | 77.1   | 78.1   | 80.2   | 82.9   | 84.8   | 86.8   | 86.7   | 86.9   | 85.0   | 82.9 |     |     |     |     |     | 116.1 |
| (275, DFG K)       | 1600   | 78.7   | 79.5   | 81.0   | 84.3   | 86.8   | 88.9   | 90.4   | 90.3   | 89.8   | 86.2   | 82.1 |     |     |     |     |     | 118.1 |
| HACT 4.54 G/MJ     | 2000   | 86.8   | 87.3   | 87.8   | 91.6   | 92.8   | 95.8   | 97.3   | 98.7   | 96.9   | 92.3   | 87.9 |     |     |     |     |     | 121.3 |
| (.C0454 K/MJ)      | 2500   | 79.0   | 81.0   | 84.3   | 87.6   | 90.6   | 91.5   | 92.2   | 91.9   | 92.7   | 86.8   | 83.4 |     |     |     |     |     | 125.5 |
| NFA 773, PPM       | 3150   | 76.9   | 80.6   | 82.8   | 86.4   | 89.3   | 91.2   | 93.0   | 92.4   | 94.0   | 87.6   | 84.2 |     |     |     |     |     | 124.1 |
| ( 810, HAD/SEC)    | 4000   | 76.8   | 79.6   | 82.1   | 85.2   | 88.8   | 92.0   | 93.9   | 94.2   | 95.0   | 87.4   | 85.2 |     |     |     |     |     | 125.0 |
| NFK 789, PPM       | 5000   | 73.6   | 75.4   | 78.1   | 81.7   | 85.6   | 89.2   | 91.7   | 90.7   | 90.3   | 86.9   | 81.9 |     |     |     |     |     | 121.8 |
| ( 827, HAD/SEC)    | 6300   | 73.0   | 76.2   | 78.9   | 82.6   | 86.1   | 89.2   | 92.2   | 92.9   | 92.3   | 86.5   | 81.3 |     |     |     |     |     | 122.9 |
| NFD 882, PPM       | 8000   | 72.9   | 75.9   | 78.5   | 81.6   | 84.2   | 88.7   | 91.7   | 92.8   | 93.3   | 86.9   | 81.8 |     |     |     |     |     | 123.8 |
| ( 924, HAD/SEC)    | 10000  | 74.6   | 77.9   | 81.3   | 85.2   | 87.9   | 90.6   | 93.8   | 93.7   | 95.9   | 89.1   | 83.7 |     |     |     |     |     | 125.7 |
| NO. OF BLAIFS 15   | 12000  | 74.9   | 78.6   | 82.8   | 87.4   | 90.2   | 92.2   | 93.9   | 96.1   | 95.6   | 87.1   | 83.2 |     |     |     |     |     | 125.3 |
| FAN TIP SPEED      | 16000  | 73.8   | 77.6   | 82.3   | 86.5   | 88.4   | 90.9   | 93.2   | 95.5   | 94.7   | 87.9   | 82.9 |     |     |     |     |     | 125.8 |
| 675, FT/SEC        | 20000  | 73.0   | 76.4   | 80.8   | 84.7   | 87.0   | 90.4   | 93.5   | 95.9   | 96.3   | 90.1   | 83.0 |     |     |     |     |     | 125.7 |
|                    | 25000  | 72.0   | 75.5   | 77.4   | 81.3   | 85.1   | 88.5   | 92.1   | 95.0   | 95.6   | 90.3   | 82.9 |     |     |     |     |     | 125.3 |
|                    | 31000  | 70.8   | 74.3   | 76.4   | 80.5   | 83.1   | 86.8   | 90.1   | 93.7   | 93.6   | 88.1   | 80.2 |     |     |     |     |     | 125.5 |
|                    | 40000  | 70.8   | 73.4   | 74.4   | 79.0   | 81.4   | 85.1   | 89.0   | 90.9   | 91.1   | 83.7   | 77.4 |     |     |     |     |     | 124.5 |
|                    | 50000  | 68.2   | 68.2   | 68.5   | 73.4   | 74.2   | 77.8   | 81.9   | 83.2   | 83.1   | 79.9   | 70.4 |     |     |     |     |     | 119.1 |
|                    | 63000  | 64.3   | 63.3   | 61.9   | 64.4   | 64.9   | 67.1   | 71.8   | 72.7   | 72.7   | 68.9   | 62.8 |     |     |     |     |     | 111.7 |
|                    | 80000  | 67.8   | 68.1   | 65.9   | 64.7   | 64.7   | 65.1   | 65.8   | 65.3   | 66.8   | 63.3   | 64.4 |     |     |     |     |     | 112.7 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
| OVERALL CALCULATED | 91.2   | 93.0   | 94.7   | 98.0   | 100.3  | 102.7  | 105.8  | 108.4  | 106.3  | 101.5  | 98.9   |      |     |     |     |     |     | 127.4 |
| PAOB               | 104.9  | 106.0  | 107.1  | 110.3  | 112.1  | 114.4  | 116.5  | 117.2  | 117.2  | 112.9  | 110.1  |      |     |     |     |     |     |       |

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MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)

PROC. DATE - MONTH 4 DAY 29 HR: 20.1

ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                    | 55     | 67     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 154   | 0     | 0     | 0     | 0     | 0     | 0     |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| FREQ. (0.92)       | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) |
| SIDELINE 200, FT.  | 80     | 40.0   | 42.3   | 44.7   | 46.6   | 46.5   | 47.8   | 50.6   | 51.2   | 52.4   | 54.4  | 55.8  |       |       |       |       |       |
| ( 80.98 M)         | 100    | 43.2   | 48.0   | 49.4   | 50.3   | 50.9   | 51.0   | 51.0   | 50.7   | 53.4   | 55.3  | 56.4  |       |       |       |       |       |
| VEHICLE R-55       | 125    | 50.4   | 54.3   | 54.1   | 54.0   | 55.4   | 55.0   | 56.0   | 56.4   | 55.8   | 59.7  | 58.0  |       |       |       |       |       |
| CONFIG 75-1A       | 160    | 49.0   | 51.8   | 52.3   | 53.4   | 53.5   | 53.9   | 55.4   | 55.8   | 56.9   | 56.8  | 56.3  |       |       |       |       |       |
| LOC SCHENECTADY    | 200    | 48.9   | 50.1   | 51.5   | 52.9   | 55.1   | 56.9   | 57.1   | 57.5   | 57.4   | 57.7  | 56.9  |       |       |       |       |       |
| DATE 01-16-75      | 250    | 52.2   | 54.7   | 56.7   | 57.6   | 58.2   | 59.0   | 57.8   | 59.0   | 59.5   | 58.8  | 56.4  |       |       |       |       |       |
| HUN 50-7           | 315    | 52.8   | 55.6   | 56.4   | 57.3   | 57.4   | 58.2   | 56.5   | 57.6   | 57.4   | 58.7  | 54.9  |       |       |       |       |       |
| TAPP 25            | 400    | 51.4   | 53.7   | 54.0   | 55.6   | 56.2   | 56.3   | 57.8   | 57.1   | 56.9   | 59.7  | 54.1  |       |       |       |       |       |
| BAR 29.8 HG        | 500    | 47.4   | 51.7   | 53.0   | 54.7   | 55.5   | 56.6   | 57.8   | 57.7   | 57.2   | 59.7  | 53.3  |       |       |       |       |       |
| (00498, N/M2)      | 630    | 51.2   | 52.8   | 55.5   | 57.0   | 57.8   | 59.2   | 60.6   | 59.7   | 58.7   | 58.4  | 52.2  |       |       |       |       |       |
| TAM 38, DEG F      | 800    | 52.1   | 54.2   | 55.5   | 56.6   | 57.8   | 59.1   | 60.3   | 59.4   | 58.4   | 59.3  | 50.9  |       |       |       |       |       |
| (276, DEG K)       | 1000   | 50.6   | 53.0   | 55.0   | 56.2   | 57.6   | 59.6   | 61.3   | 61.5   | 60.2   | 58.0  | 50.0  |       |       |       |       |       |
| TWET 39, DEG F     | 1250   | 51.0   | 53.2   | 55.0   | 57.4   | 60.3   | 61.8   | 63.3   | 62.4   | 61.1   | 58.6  | 49.7  |       |       |       |       |       |
| (275, DEG K)       | 1600   | 53.4   | 55.4   | 57.6   | 61.4   | 63.2   | 65.5   | 66.9   | 65.8   | 63.7   | 57.4  | 48.9  |       |       |       |       |       |
| HACY 4.34 G/M3     | 2000   | 61.3   | 63.0   | 64.3   | 66.3   | 69.9   | 71.9   | 73.6   | 73.9   | 70.6   | 63.3  | 53.7  |       |       |       |       |       |
| (.00454 KG/M3)     | 2500   | 53.3   | 57.3   | 60.6   | 64.3   | 67.4   | 68.2   | 68.3   | 68.9   | 68.0   | 57.4  | 49.2  |       |       |       |       |       |
| NFA 7734, RPM      | 3150   | 50.5   | 55.8   | 58.5   | 62.9   | 65.9   | 67.7   | 68.8   | 67.2   | 67.0   | 57.8  | 49.3  |       |       |       |       |       |
| ( 810, RAD/SEC)    | 4000   | 50.3   | 54.3   | 57.6   | 61.2   | 65.0   | 68.0   | 69.3   | 68.4   | 67.4   | 58.8  | 49.2  |       |       |       |       |       |
| NFK 7695, RPM      | 5000   | 46.7   | 50.3   | 53.4   | 57.5   | 61.5   | 65.0   | 66.8   | 64.6   | 62.3   | 59.9  | 49.3  |       |       |       |       |       |
| ( 827, RAD/SEC)    | 6300   | 45.2   | 49.8   | 53.4   | 57.7   | 61.3   | 64.3   | 66.5   | 66.0   | 63.4   | 54.2  | 42.9  |       |       |       |       |       |
| NFD 8823, RPM      | 8000   | 43.8   | 48.3   | 51.9   | 55.6   | 58.4   | 62.7   | 64.9   | 64.6   | 62.8   | 52.7  | 40.6  |       |       |       |       |       |
| ( 924, RAD/SEC)    | 10000  | 43.5   | 48.5   | 53.1   | 57.7   | 60.6   | 63.0   | 65.4   | 63.8   | 63.4   | 52.2  | 38.5  |       |       |       |       |       |
| NO. OF BLAUPS 15   | 12500  | 41.0   | 46.7   | 52.3   | 57.6   | 60.6   | 62.3   | 63.1   | 63.5   | 59.9   | 48.3  | 32.3  |       |       |       |       |       |
| FAN TIP SPEED      | 14000  | 39.2   | 41.6   | 46.0   | 51.1   | 55.3   | 57.4   | 58.5   | 58.6   | 54.0   | 40.6  | 22.1  |       |       |       |       |       |
| 675, FT/SEC        | 20000  | 28.4   | 35.5   | 41.4   | 46.4   | 49.1   | 52.1   | 53.7   | 55.4   | 49.0   | 34.4  | 18.2  |       |       |       |       |       |
|                    | 25000  | 18.7   | 26.0   | 31.3   | 36.2   | 40.5   | 43.3   | 45.0   | 44.3   | 38.7   | 22.4  |       |       |       |       |       |       |
|                    | 31500  | 4.7    | 13.7   | 19.3   | 25.4   | 28.5   | 31.5   | 32.3   | 32.1   | 22.8   | 2.4   |       |       |       |       |       |       |
|                    | 40000  |        |        | 1.8    | 6.9    | 12.1   | 14.7   | 15.3   | 10.8   |        |       |       |       |       |       |       |       |
|                    | 50000  |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
|                    | 63000  |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
|                    | 80000  |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
| OVERALL CALCULATED | 65.5   | 68.1   | 70.1   | 73.4   | 75.6   | 77.6   | 79.0   | 78.6   | 76.6   | 70.5   | 66.5  |       |       |       |       |       |       |
| PNDB               | 78.8   | 81.3   | 83.3   | 86.9   | 88.8   | 90.8   | 92.4   | 92.1   | 89.9   | 83.3   | 79.6  |       |       |       |       |       |       |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 4 DAY 29 HR. 28.1

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 55     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 135    | 145    | 154    | 0    | 0   | 0   | 0   | 0   | 0   | PWL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|-------|
| FREQ.              | (0.92) | (1.06) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0) |       |
|                    | 50     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
|                    | 63     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
| RADIAL 17. FT.     | 80     | 66.9   | 68.9   | 72.5   | 74.7   | 75.2   | 74.2   | 71.2   | 66.5   | 69.0   | 72.1   | 74.7 |     |     |     |     |     | 106.9 |
| ( 5. M)            | 100    | 70.9   | 73.0   | 76.3   | 78.8   | 79.5   | 78.5   | 75.0   | 68.3   | 71.5   | 74.6   | 76.5 |     |     |     |     |     | 110.3 |
| VEHICLE R-55       | 125    | 66.7   | 67.0   | 70.1   | 69.3   | 73.6   | 68.6   | 67.8   | 70.3   | 71.1   | 71.4   | 75.3 |     |     |     |     |     | 104.7 |
| CONFIG 75-1A       | 160    | 66.2   | 64.7   | 65.0   | 66.3   | 67.0   | 67.0   | 68.5   | 69.5   | 71.0   | 72.4   | 75.0 |     |     |     |     |     | 103.1 |
| LOC SCHEMELCTADY   | 200    | 67.7   | 63.1   | 64.3   | 67.1   | 68.4   | 70.1   | 70.3   | 71.9   | 72.4   | 74.2   | 76.0 |     |     |     |     |     | 104.7 |
| DATE 91-16-75      | 250    | 67.7   | 66.6   | 68.3   | 69.1   | 69.6   | 70.1   | 71.1   | 71.6   | 72.6   | 73.4   | 75.3 |     |     |     |     |     | 105.8 |
| RUN 50-8           | 315    | 69.0   | 69.1   | 69.3   | 70.4   | 70.6   | 71.1   | 71.3   | 71.1   | 71.9   | 72.7   | 73.8 |     |     |     |     |     | 105.1 |
| TAMP 25            | 400    | 67.4   | 67.2   | 67.5   | 69.0   | 69.8   | 70.2   | 71.0   | 71.5   | 72.0   | 72.6   | 73.4 |     |     |     |     |     | 104.8 |
| MAN 29.8 MC        | 500    | 66.1   | 66.6   | 66.9   | 68.9   | 69.7   | 70.9   | 72.1   | 72.9   | 73.4   | 74.3   | 74.1 |     |     |     |     |     | 105.3 |
| (00698, 1/42)      | 630    | 69.5   | 69.3   | 70.6   | 71.8   | 73.3   | 74.3   | 76.0   | 76.4   | 76.4   | 76.2   | 75.3 |     |     |     |     |     | 108.3 |
| TAMP 37, DFG F     | 800    | 69.5   | 70.1   | 70.1   | 71.9   | 73.1   | 73.9   | 75.1   | 76.2   | 76.4   | 76.2   | 75.3 |     |     |     |     |     | 109.1 |
| (276, DFG K)       | 1000   | 69.0   | 69.9   | 70.1   | 71.1   | 73.8   | 75.0   | 77.5   | 79.1   | 79.9   | 79.4   | 74.7 |     |     |     |     |     | 110.2 |
| TWET 35, DFG F     | 1250   | 76.5   | 75.1   | 73.6   | 78.2   | 80.9   | 83.1   | 85.3   | 86.2   | 86.2   | 87.0   | 79.8 |     |     |     |     |     | 117.3 |
| (275, DFG K)       | 1600   | 73.2   | 72.5   | 73.7   | 77.8   | 80.0   | 82.2   | 84.2   | 84.3   | 83.8   | 82.9   | 77.6 |     |     |     |     |     | 115.4 |
| HACT 4.0 G/M3      | 2000   | 73.3   | 72.3   | 74.0   | 78.6   | 80.6   | 82.5   | 83.5   | 83.7   | 83.2   | 81.8   | 77.0 |     |     |     |     |     | 115.1 |
| (.004M3 K/M3)      | 2500   | 73.0   | 73.0   | 77.0   | 79.6   | 82.8   | 85.7   | 86.9   | 87.6   | 89.9   | 87.3   | 82.4 |     |     |     |     |     | 119.3 |
| NFA 5414, RPM      | 3150   | 70.0   | 72.1   | 73.3   | 77.4   | 80.8   | 83.2   | 84.5   | 85.2   | 86.7   | 84.3   | 79.2 |     |     |     |     |     | 116.6 |
| ( 567, RAD/SEC)    | 4000   | 66.3   | 68.3   | 70.0   | 75.2   | 77.3   | 80.5   | 83.4   | 82.7   | 84.2   | 82.1   | 75.7 |     |     |     |     |     | 114.1 |
| NFA 5533, RPM      | 5000   | 65.1   | 65.4   | 67.3   | 70.9   | 75.1   | 78.7   | 82.4   | 82.4   | 81.5   | 80.4   | 74.1 |     |     |     |     |     | 112.8 |
| ( 579, RAD/SEC)    | 6300   | 64.7   | 66.1   | 68.1   | 70.6   | 74.3   | 78.0   | 80.9   | 82.1   | 82.8   | 81.0   | 74.0 |     |     |     |     |     | 112.7 |
| NFA 8823, RPM      | 8000   | 63.6   | 67.0   | 70.7   | 73.8   | 77.2   | 80.9   | 82.7   | 83.5   | 84.5   | 82.4   | 75.3 |     |     |     |     |     | 114.6 |
| ( 924, RAD/SEC)    | 10000  | 77.8   | 80.1   | 84.3   | 88.2   | 91.6   | 96.3   | 98.0   | 91.9   | 90.1   | 87.3   | 80.6 |     |     |     |     |     | 126.2 |
| NO. OF BLADES 15   | 12000  | 67.9   | 71.3   | 73.5   | 78.4   | 81.6   | 84.4   | 86.6   | 86.3   | 87.5   | 84.3   | 75.7 |     |     |     |     |     | 115.2 |
| FAN TIP SPEED      | 16000  | 64.7   | 66.5   | 65.5   | 73.2   | 76.1   | 78.6   | 82.4   | 83.1   | 85.8   | 83.1   | 73.9 |     |     |     |     |     | 115.8 |
| 473, FT/SEC        | 20000  | 64.1   | 65.3   | 67.2   | 70.8   | 74.7   | 78.0   | 80.7   | 83.1   | 86.0   | 83.0   | 73.9 |     |     |     |     |     | 115.4 |
|                    | 25000  | 64.8   | 62.8   | 63.6   | 68.1   | 71.2   | 74.5   | 77.6   | 80.3   | 82.3   | 80.6   | 72.3 |     |     |     |     |     | 112.9 |
|                    | 31500  | 65.3   | 63.2   | 63.1   | 68.5   | 70.6   | 73.3   | 76.9   | 79.6   | 81.0   | 78.0   | 69.9 |     |     |     |     |     | 112.6 |
|                    | 40000  | 66.9   | 62.4   | 61.4   | 67.5   | 69.7   | 71.9   | 75.3   | 77.5   | 79.6   | 75.7   | 68.1 |     |     |     |     |     | 112.3 |
|                    | 50000  | 66.3   | 59.0   | 57.8   | 64.7   | 65.5   | 66.9   | 70.0   | 70.8   | 71.7   | 70.8   | 65.9 |     |     |     |     |     | 109.3 |
|                    | 63000  | 65.5   | 55.7   | 54.1   | 61.5   | 61.3   | 61.5   | 63.5   | 63.6   | 63.4   | 63.1   | 61.0 |     |     |     |     |     | 104.8 |
|                    | 80000  | 63.1   | 56.4   | 56.2   | 65.0   | 65.0   | 65.4   | 66.0   | 65.2   | 64.0   | 63.5   | 64.6 |     |     |     |     |     | 111.6 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |       |
| OVERALL CALCULATED | 84.9   | 85.3   | 88.0   | 91.5   | 94.5   | 98.1   | 98.7   | 97.5   | 98.0   | 98.1   | 98.9   |      |     |     |     |     |     | 133.1 |
| PND8               | 96.0   | 96.4   | 99.0   | 102.3  | 105.3  | 108.7  | 109.4  | 106.7  | 110.0  | 108.2  | 103.8  |      |     |     |     |     |     |       |

MODEL SOUND PRESSURE LEVELS (99, DEG, F, 70 PERCENT REL. HUM, DAY)  
 PROC. DATE - MONTH 4 DAY 29 HR: 20.1  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

| FREQ.              | 53     | 67     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0    | 0   | 0   | 0   | 0   | 0   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|
|                    | (0.92) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0) |
| SIDELINE 200. FT.  | 80     | 43.3   | 46.3   | 50.4   | 53.1   | 53.7   | 52.5   | 49.1   | 43.5   | 44.7   | 45.6   | 44.0 |     |     |     |     |     |
| ( 80.96 M)         | 100    | 47.2   | 50.2   | 54.2   | 57.1   | 57.9   | 56.8   | 52.0   | 45.2   | 47.1   | 48.1   | 46.4 |     |     |     |     |     |
| VEHICLE R=55       | 125    | 42.9   | 44.2   | 47.9   | 47.5   | 51.9   | 46.0   | 45.5   | 47.2   | 46.6   | 44.7   | 45.0 |     |     |     |     |     |
| CONFIG 75-1A       | 160    | 42.3   | 41.6   | 42.0   | 44.4   | 45.3   | 45.1   | 46.1   | 46.3   | 46.4   | 45.5   | 44.5 |     |     |     |     |     |
| LOC SCHEMECTADY    | 200    | 43.8   | 40.1   | 42.0   | 45.2   | 46.6   | 48.1   | 47.9   | 48.5   | 47.6   | 47.2   | 45.4 |     |     |     |     |     |
| DATE 01-16-75      | 250    | 43.7   | 43.7   | 45.9   | 47.1   | 47.7   | 48.0   | 48.6   | 48.2   | 47.8   | 46.3   | 44.4 |     |     |     |     |     |
| MUN 50-0           | 315    | 44.8   | 45.9   | 46.9   | 48.3   | 48.6   | 49.0   | 48.7   | 47.8   | 46.9   | 45.4   | 42.7 |     |     |     |     |     |
| TAMP 25            | 400    | 43.1   | 43.9   | 44.9   | 46.8   | 47.7   | 48.0   | 48.3   | 47.9   | 46.9   | 45.4   | 42.7 |     |     |     |     |     |
| BAR 29.0 HG.       | 500    | 41.7   | 43.2   | 44.2   | 46.7   | 47.5   | 48.0   | 49.3   | 49.2   | 48.2   | 46.7   | 42.5 |     |     |     |     |     |
| ( 80690 N/M2)      | 630    | 44.0   | 45.6   | 47.8   | 49.5   | 51.1   | 51.9   | 53.1   | 52.5   | 51.0   | 48.4   | 43.4 |     |     |     |     |     |
| TAMP 37 DEG F      | 800    | 44.0   | 46.3   | 47.2   | 49.4   | 50.8   | 51.3   | 52.0   | 52.2   | 50.9   | 48.3   | 43.1 |     |     |     |     |     |
| ( 276 DEG K)       | 1000   | 44.1   | 45.8   | 47.8   | 48.5   | 51.3   | 53.1   | 54.3   | 55.0   | 54.2   | 51.2   | 42.3 |     |     |     |     |     |
| TWET 35 DEG F      | 1250   | 51.5   | 51.2   | 50.5   | 55.4   | 58.3   | 60.3   | 62.0   | 61.9   | 60.3   | 58.6   | 47.0 |     |     |     |     |     |
| ( 275 DEG X)       | 1600   | 47.9   | 48.4   | 50.4   | 54.9   | 57.2   | 59.2   | 60.7   | 59.8   | 57.7   | 54.2   | 44.6 |     |     |     |     |     |
| MACT 4.84 G/M3     | 2000   | 47.8   | 48.0   | 51.3   | 55.5   | 57.6   | 59.4   | 59.8   | 58.9   | 56.8   | 52.7   | 43.2 |     |     |     |     |     |
| (.00446 KG/M3)     | 2500   | 47.5   | 49.0   | 53.3   | 56.3   | 59.7   | 62.4   | 63.1   | 62.7   | 63.3   | 57.9   | 48.2 |     |     |     |     |     |
| NFA 5412 RPM       | 3150   | 44.0   | 47.3   | 49.3   | 53.9   | 57.4   | 59.6   | 60.3   | 59.9   | 59.7   | 54.5   | 44.3 |     |     |     |     |     |
| ( 567 RAD/SEC)     | 4000   | 41.7   | 43.0   | 45.8   | 49.2   | 53.5   | 56.5   | 58.8   | 58.9   | 58.6   | 51.5   | 39.7 |     |     |     |     |     |
| NFK 5533 RPM       | 5000   | 38.2   | 39.8   | 42.6   | 46.7   | 51.0   | 54.4   | 57.5   | 58.4   | 53.6   | 49.4   | 37.5 |     |     |     |     |     |
| ( 579 RAD/SEC)     | 6300   | 37.0   | 39.3   | 42.6   | 45.7   | 49.5   | 53.0   | 55.2   | 55.2   | 53.9   | 48.7   | 35.6 |     |     |     |     |     |
| NFD 8823 RPM       | 8000   | 36.5   | 40.2   | 44.1   | 47.8   | 51.3   | 54.9   | 55.9   | 55.3   | 54.1   | 48.2   | 34.0 |     |     |     |     |     |
| ( 924 RAD/SEC)     | 10000  | 46.7   | 50.7   | 56.1   | 60.7   | 64.3   | 68.7   | 67.6   | 62.0   | 57.6   | 50.4   | 35.4 |     |     |     |     |     |
| NO. OF BLADES 15   | 12500  | 34.0   | 38.4   | 43.0   | 48.6   | 52.1   | 54.5   | 55.8   | 53.7   | 51.9   | 43.5   | 24.7 |     |     |     |     |     |
| FAN TIP SPEED      | 15000  | 26.2   | 30.5   | 34.1   | 39.7   | 43.0   | 45.1   | 47.7   | 48.3   | 45.2   | 35.8   | 13.6 |     |     |     |     |     |
| 473. FT/SEC        | 20000  | 19.5   | 23.9   | 27.8   | 32.6   | 36.8   | 40.2   | 40.9   | 40.5   | 38.6   | 27.3   | 11.8 |     |     |     |     |     |
|                    | 25000  | 11.5   | 13.6   | 17.1   | 21.0   | 24.5   | 29.3   | 30.5   | 29.8   | 29.5   | 12.7   |      |     |     |     |     |     |
|                    | 31500  |        | 2.0    | 6.9    | 13.3   | 18.0   | 18.0   | 19.1   | 17.1   | 18.3   |        |      |     |     |     |     |     |
|                    | 40000  |        |        |        |        | 0.4    | 1.5    | 1.6    |        |        |        |      |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| OVERALL CALCULATED |        | 56.6   | 60.0   | 62.9   | 66.5   | 69.3   | 72.0   | 72.1   | 70.3   | 69.1   | 65.1   | 57.3 |     |     |     |     |     |
| PND8               |        | 69.8   | 74.4   | 74.7   | 78.0   | 81.0   | 83.0   | 84.2   | 83.4   | 83.0   | 78.4   | 69.1 |     |     |     |     |     |





ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 59     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 154    | 0    | 0   | 0   | 0   | 0   | 0   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|
| FREQ.              | (0.92) | (1.06) | (1.24) | (1.42) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0) |
| SIDELINE 200. FT.  | 63     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| ( 60.96 M)         | 80     | 43.0   | 48.5   | 24.9   | 53.1   | 54.0   | 52.5   | 49.6   | 48.5   | 44.4   | 45.4   | 42.8 |     |     |     |     |     |
| VEHICLE R-55       | 100    | 49.2   | 52.7   | 25.2   | 57.8   | 58.4   | 57.5   | 53.5   | 45.5   | 47.4   | 47.8   | 44.4 |     |     |     |     |     |
| CONFIG 75-1R       | 125    | 43.2   | 46.5   | 24.4   | 45.3   | 49.9   | 45.8   | 45.5   | 47.7   | 46.8   | 45.8   | 42.5 |     |     |     |     |     |
| LOC SCHWENCTADY    | 160    | 41.3   | 45.8   | 24.3   | 43.7   | 43.8   | 43.9   | 45.6   | 45.8   | 46.2   | 45.8   | 42.5 |     |     |     |     |     |
| DATE 01-16-75      | 200    | 42.0   | 47.1   | 22.5   | 43.2   | 44.6   | 46.1   | 47.1   | 47.8   | 47.4   | 47.8   | 44.1 |     |     |     |     |     |
| NUM 51-1           | 250    | 44.2   | 46.5   | 22.9   | 46.1   | 47.2   | 47.5   | 48.8   | 47.7   | 47.8   | 45.8   | 42.4 |     |     |     |     |     |
| TAPF 25            | 315    | 45.6   | 49.1   | 22.9   | 48.0   | 48.4   | 49.8   | 46.2   | 47.1   | 46.9   | 45.2   | 40.7 |     |     |     |     |     |
| BAR 29.0 HG        | 400    | 44.4   | 46.9   | 22.9   | 46.6   | 47.2   | 47.8   | 47.8   | 47.4   | 46.4   | 44.7   | 40.6 |     |     |     |     |     |
| (00698, N/42)      | 500    | 45.9   | 47.2   | 22.5   | 45.9   | 46.8   | 47.6   | 48.6   | 48.2   | 47.2   | 46.2   | 40.8 |     |     |     |     |     |
| TAMP 38, CFG F     | 600    | 43.7   | 47.3   | 22.8   | 49.0   | 49.8   | 50.7   | 51.4   | 51.0   | 50.0   | 47.7   | 40.7 |     |     |     |     |     |
| (278, DEG K)       | 800    | 49.5   | 47.2   | 22.5   | 47.4   | 48.8   | 49.8   | 51.0   | 51.2   | 50.6   | 49.3   | 35.4 |     |     |     |     |     |
| TMET 35, CFG F     | 1000   | 50.9   | 46.0   | 22.5   | 46.5   | 50.1   | 52.9   | 54.1   | 54.0   | 53.4   | 50.7   | 39.5 |     |     |     |     |     |
| (275, DEG K)       | 1250   | 53.3   | 51.2   | 22.2   | 55.9   | 56.8   | 59.1   | 60.5   | 60.6   | 59.8   | 57.6   | 44.7 |     |     |     |     |     |
| MACT 4.54 G/M3     | 1600   | 50.4   | 49.8   | 22.1   | 52.4   | 54.7   | 56.7   | 58.2   | 57.6   | 56.2   | 53.2   | 41.1 |     |     |     |     |     |
| (.00454 K/M3)      | 2000   | 47.3   | 47.3   | 22.0   | 50.0   | 52.6   | 54.9   | 56.6   | 55.7   | 54.1   | 51.8   | 40.7 |     |     |     |     |     |
| NFA 5420, RPM      | 2500   | 47.8   | 45.4   | 22.0   | 49.1   | 52.2   | 54.7   | 55.6   | 55.9   | 56.5   | 52.4   | 40.5 |     |     |     |     |     |
| ( 564, PAD/SEC)    | 3150   | 49.3   | 47.3   | 21.9   | 47.1   | 49.7   | 53.2   | 53.8   | 54.2   | 54.7   | 50.8   | 37.8 |     |     |     |     |     |
| NFK 5541, RPM      | 4000   | 49.0   | 50.8   | 21.9   | 47.5   | 51.5   | 55.5   | 56.8   | 55.9   | 55.4   | 52.3   | 38.4 |     |     |     |     |     |
| ( 568, HAZ/SEC)    | 5000   | 40.0   | 46.3   | 21.4   | 46.2   | 50.3   | 55.5   | 58.1   | 57.6   | 56.1   | 51.1   | 37.3 |     |     |     |     |     |
| NFD 8823, RPM      | 6300   | 39.7   | 45.0   | 21.4   | 46.2   | 50.3   | 54.8   | 57.0   | 57.5   | 56.4   | 49.7   | 36.1 |     |     |     |     |     |
| ( 924, HAZ/SEC)    | 8000   | 37.3   | 46.8   | 20.4   | 45.3   | 50.1   | 54.2   | 56.1   | 55.9   | 54.6   | 47.5   | 32.8 |     |     |     |     |     |
| NO. OF BLADES 15   | 10000  | 35.0   | 44.5   | 19.1   | 45.0   | 49.4   | 53.2   | 55.1   | 55.3   | 53.9   | 45.9   | 30.8 |     |     |     |     |     |
| FAN TIP SPEED      | 12500  | 31.8   | 42.7   | 18.8   | 39.9   | 45.4   | 48.3   | 51.1   | 50.8   | 49.7   | 40.5   | 21.8 |     |     |     |     |     |
| 474. FT/SEC        | 15000  | 25.7   | 30.1   | 14.9   | 36.6   | 41.6   | 44.4   | 46.5   | 47.1   | 44.0   | 33.6   | 11.4 |     |     |     |     |     |
|                    | 20000  | 19.9   | 24.7   | 12.9   | 28.9   | 34.9   | 39.1   | 40.2   | 39.9   | 37.7   | 26.6   |      |     |     |     |     |     |
|                    | 25000  | 11.5   | 17.0   | 8.8    | 18.4   | 24.7   | 28.8   | 30.9   | 29.6   | 25.2   | 14.7   |      |     |     |     |     |     |
|                    | 31500  |        | 5.7    |        | 8.6    | 14.8   | 17.7   | 19.1   | 18.9   | 18.3   |        |      |     |     |     |     |     |
|                    | 40000  |        |        |        |        |        | 0.7    | 0.8    |        |        |        |      |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| OVERALL CALCULATED |        | 60.8   | 61.5   | 37.5   | 63.6   | 65.3   | 67.1   | 68.2   | 67.9   | 67.1   | 63.6   | 54.9 |     |     |     |     |     |
| PNDS               |        | 70.5   | 73.8   | 41.6   | 73.4   | 76.2   | 79.3   | 80.8   | 80.6   | 79.4   | 75.8   | 64.2 |     |     |     |     |     |

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NG

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (90 PER. F, 70 PERCENT REL. HUM, DAY)  
 PHOC DATE - MONTH 4 DAY 20 HR; 20.1  
 ANGLE FROM INLET IN DEGREES (AND RADIANS)

| FREQ.              | PHOC DATE - MONTH 4 DAY 20 HR; 20.1<br>ANGLE FROM INLET IN DEGREES (AND RADIANS) |              |              |              |              |               |               |               |               |               |               |          |          |          |          |
|--------------------|--|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|----------|----------|----------|----------|
|                    | 33<br>(0.92)   | 62<br>(1.68) | 71<br>(1.24) | 81<br>(1.41) | 91<br>(1.58) | 101<br>(1.76) | 111<br>(1.94) | 122<br>(2.13) | 133<br>(2.32) | 145<br>(2.52) | 154<br>(2.73) | 0<br>(0) | 0<br>(0) | 0<br>(0) | 0<br>(0) |
| 50                 | 63.1   | 61.9         | 62.7         | 60.5         | 63.7         | 64.3          | 67.7          | 68.7          | 76.5          | 73.8          | 78.4          |          |          |          |          |
| 63                 | 74.4   | 75.2         | 72.0         | 73.3         | 71.3         | 69.8          | 61.8          | 69.3          | 72.5          | 75.6          | 79.7          |          |          |          |          |
| 80                 | 70.2   | 70.5         | 72.6         | 71.1         | 73.8         | 70.6          | 71.3          | 73.8          | 74.3          | 75.9          | 79.3          |          |          |          | 103.8    |
| 100                | 78.7   | 69.0         | 69.3         | 70.5         | 78.0         | 78.0          | 72.3          | 73.5          | 75.0          | 76.6          | 79.0          |          |          |          | 107.6    |
| 125                | 68.0   | 68.0         | 69.6         | 69.6         | 71.6         | 73.1          | 73.8          | 75.4          | 76.6          | 78.4          | 88.5          |          |          |          | 107.5    |
| 150                | 74.0   | 71.5         | 72.1         | 72.6         | 73.6         | 73.3          | 74.8          | 74.8          | 76.1          | 77.2          | 79.3          |          |          |          | 107.1    |
| 200                | 72.7   | 73.1         | 73.1         | 73.9         | 74.6         | 74.4          | 74.6          | 74.9          | 75.6          | 76.9          | 78.3          |          |          |          | 108.5    |
| 250                | 70.9   | 71.2         | 71.5         | 72.5         | 73.3         | 73.2          | 74.2          | 75.0          | 75.8          | 76.6          | 78.2          |          |          |          | 108.9    |
| 315                | 69.6   | 70.4         | 70.9         | 71.9         | 72.7         | 73.7          | 75.1          | 75.9          | 76.7          | 77.3          | 78.3          |          |          |          | 108.9    |
| 400                | 73.0   | 72.5         | 73.8         | 74.8         | 75.5         | 76.8          | 78.3          | 78.1          | 78.4          | 79.2          | 77.5          |          |          |          | 108.2    |
| 500                | 71.0   | 72.5         | 72.6         | 73.6         | 74.6         | 75.6          | 77.6          | 78.2          | 78.7          | 79.0          | 76.8          |          |          |          | 108.4    |
| 630                | 71.5   | 72.5         | 72.6         | 73.1         | 74.1         | 74.0          | 78.0          | 81.1          | 82.1          | 80.7          | 77.0          |          |          |          | 110.6    |
| 800                | 72.0   | 73.1         | 74.9         | 76.7         | 78.6         | 80.1          | 82.3          | 82.7          | 83.4          | 82.5          | 77.3          |          |          |          | 110.1    |
| 1000               | 79.7   | 81.2         | 81.7         | 83.8         | 86.7         | 86.7          | 88.7          | 89.3          | 89.1          | 89.2          | 81.9          |          |          |          | 112.5    |
| 1250               | 74.0   | 73.0         | 74.8         | 77.1         | 79.3         | 81.5          | 83.5          | 83.7          | 84.7          | 83.8          | 78.5          |          |          |          | 114.2    |
| 1500               | 70.2   | 71.0         | 72.3         | 74.8         | 77.3         | 79.5          | 81.4          | 82.6          | 83.7          | 80.5          | 75.7          |          |          |          | 123.0    |
| 2000               | 71.3   | 73.1         | 74.1         | 76.2         | 79.1         | 82.0          | 85.5          | 85.2          | 86.7          | 82.6          | 78.4          |          |          |          | 115.2    |
| 2500               | 68.8   | 69.5         | 71.5         | 74.4         | 78.8         | 82.5          | 85.7          | 85.2          | 85.5          | 84.6          | 77.7          |          |          |          | 116.9    |
| 3150               | 76.6   | 70.9         | 73.0         | 77.2         | 79.8         | 83.7          | 86.7          | 87.7          | 88.9          | 84.6          | 79.1          |          |          |          | 115.2    |
| 4000               | 76.0   | 71.9         | 73.6         | 75.8         | 80.3         | 84.0          | 86.9          | 86.1          | 84.3          | 84.2          | 79.0          |          |          |          | 117.9    |
| 5000               | 69.1   | 71.5         | 73.7         | 76.3         | 80.7         | 84.2          | 87.9          | 88.7          | 89.6          | 84.7          | 79.0          |          |          |          | 118.5    |
| 6300               | 69.5   | 71.5         | 74.0         | 77.7         | 81.6         | 85.3          | 87.8          | 89.7          | 89.4          | 86.1          | 79.4          |          |          |          | 119.8    |
| 8000               | 66.6   | 70.0         | 72.5         | 75.6         | 79.9         | 82.0          | 85.9          | 89.3          | 89.0          | 85.6          | 77.9          |          |          |          | 120.0    |
| 10000              | 67.7   | 69.2         | 71.5         | 75.9         | 79.9         | 82.4          | 85.6          | 88.6          | 88.6          | 86.4          | 76.9          |          |          |          | 119.1    |
| 12500              | 68.6   | 68.8         | 69.9         | 73.8         | 78.4         | 82.3          | 85.4          | 88.6          | 89.0          | 87.0          | 77.1          |          |          |          | 119.3    |
| 15000              | 68.0   | 67.8         | 67.9         | 71.1         | 75.2         | 79.5          | 82.9          | 85.7          | 87.6          | 84.1          | 75.8          |          |          |          | 119.8    |
| 20000              | 69.8   | 67.7         | 67.1         | 70.8         | 74.3         | 78.3          | 81.4          | 84.4          | 85.8          | 83.3          | 73.2          |          |          |          | 118.1    |
| 25000              | 67.4   | 68.7         | 67.1         | 69.5         | 72.5         | 76.4          | 80.3          | 82.2          | 83.4          | 80.2          | 78.6          |          |          |          | 117.3    |
| 31500              | 68.6   | 68.0         | 64.8         | 66.2         | 66.8         | 69.9          | 74.0          | 75.5          | 75.9          | 74.6          | 66.4          |          |          |          | 116.6    |
| 40000              | 63.7   | 63.7         | 61.9         | 61.8         | 61.8         | 62.5          | 65.0          | 65.0          | 65.9          | 65.3          | 61.7          |          |          |          | 112.1    |
| 50000              | 66.1   | 68.4         | 66.2         | 65.0         | 65.8         | 65.4          | 66.8          | 67.2          | 64.8          | 65.5          | 64.6          |          |          |          | 106.8    |
| OVERALL MEASURED   | 86.2   | 87.0         | 87.6         | 90.0         | 92.8         | 95.1          | 97.9          | 99.3          | 100.1         | 97.5          | 92.8          |          |          |          | 112.7    |
| OVERALL CALCULATED | 90.8   | 99.1         | 100.9        | 102.1        | 104.7        | 106.5         | 109.0         | 109.7         | 111.2         | 109.1         | 104.6         |          |          |          | 130.6    |

|                    | 59     | 67     | 71     | 81     | 91     | 101    | 111    | 122    | 144    | 165    | 184    | 0   | 0   | 0   | 0   | 0   | 0   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0) | (0) | (0) | (0) | (0) | (0) |
| SIDELINE 200. FT.  | 39.5   | 39.3   | 40.7   | 44.0   | 44.2   | 42.0   | 45.0   | 49.7   | 46.2   | 47.4   | 48.3   |     |     |     |     |     |     |
| ( 00.96 M)         | 100    | 50.7   | 52.5   | 50.7   | 51.6   | 49.7   | 48.0   | 47.5   | 46.2   | 48.1   | 49.7   |     |     |     |     |     |     |
| VEHICLE 4-59       | 125    | 46.4   | 47.5   | 50.4   | 49.3   | 52.2   | 48.0   | 49.0   | 50.7   | 49.0   | 49.2   |     |     |     |     |     |     |
| CONFIG 75-19       | 160    | 46.0   | 46.1   | 47.0   | 49.7   | 48.3   | 48.1   | 49.9   | 50.3   | 50.4   | 49.0   |     |     |     |     |     |     |
| LOC SCHEMECTADY    | 200    | 44.0   | 45.6   | 47.3   | 47.7   | 49.0   | 51.1   | 51.4   | 52.0   | 51.9   | 51.5   |     |     |     |     |     |     |
| DATE 01-16-75      | 250    | 47.9   | 48.2   | 49.7   | 50.6   | 51.7   | 51.3   | 52.3   | 51.4   | 51.3   | 50.1   |     |     |     |     |     |     |
| RUN 91-2           | 315    | 48.0   | 49.9   | 50.6   | 51.8   | 52.6   | 52.2   | 52.0   | 51.3   | 50.7   | 49.7   |     |     |     |     |     |     |
| TAPE 29            | 400    | 48.6   | 47.9   | 48.9   | 50.3   | 51.2   | 51.0   | 51.5   | 51.4   | 50.7   | 49.2   |     |     |     |     |     |     |
| BAR 29.0 HG        | 500    | 45.2   | 47.0   | 46.2   | 49.7   | 50.5   | 51.3   | 52.3   | 52.2   | 51.5   | 49.7   |     |     |     |     |     |     |
| (00690, N/42)      | 630    | 46.5   | 49.0   | 51.0   | 52.5   | 53.1   | 54.4   | 55.4   | 54.2   | 53.0   | 50.4   |     |     |     |     |     |     |
| TANK 37 DEG F      | 800    | 46.3   | 48.7   | 49.7   | 51.1   | 52.3   | 53.1   | 54.5   | 54.2   | 53.1   | 50.0   |     |     |     |     |     |     |
| (270, DEG K)       | 1000   | 46.0   | 48.0   | 49.5   | 50.5   | 53.6   | 55.4   | 56.8   | 57.0   | 56.4   | 52.5   |     |     |     |     |     |     |
| TWET 35 DEG F      | 1250   | 47.0   | 49.2   | 51.7   | 53.7   | 56.0   | 57.3   | 59.0   | 58.0   | 57.6   | 54.1   |     |     |     |     |     |     |
| (275, DEG K)       | 1600   | 54.4   | 57.1   | 58.4   | 60.9   | 64.0   | 63.7   | 65.2   | 64.0   | 63.0   | 60.4   |     |     |     |     |     |     |
| MAGY 4.00 G/MS     | 2000   | 48.0   | 49.3   | 51.3   | 54.0   | 56.4   | 58.4   | 59.0   | 58.9   | 59.3   | 56.0   |     |     |     |     |     |     |
| (.00490 KG/MS)     | 2500   | 44.6   | 46.5   | 49.0   | 51.6   | 54.2   | 56.2   | 57.6   | 57.7   | 57.0   | 51.2   |     |     |     |     |     |     |
| MFA 6211.0 RPM     | 3150   | 45.3   | 48.3   | 50.0   | 52.6   | 55.7   | 58.4   | 61.3   | 59.9   | 61.7   | 52.7   |     |     |     |     |     |     |
| ( 050, RAD/SEC)    | 4000   | 42.2   | 44.5   | 47.1   | 50.4   | 53.0   | 56.5   | 59.1   | 57.4   | 57.0   | 54.0   |     |     |     |     |     |     |
| MFR 6347.0 RPM     | 4000   | 43.9   | 45.3   | 48.3   | 53.0   | 55.0   | 59.4   | 61.0   | 61.0   | 60.1   | 53.6   |     |     |     |     |     |     |
| ( 605, RAD/SEC)    | 6300   | 42.2   | 45.5   | 48.1   | 50.9   | 55.5   | 59.0   | 61.2   | 61.2   | 60.4   | 51.0   |     |     |     |     |     |     |
| MFD 8073.0 RPM     | 8000   | 40.0   | 43.7   | 47.1   | 50.3   | 54.0   | 58.1   | 61.1   | 60.6   | 58.0   | 50.5   |     |     |     |     |     |     |
| ( 924, RAD/SEC)    | 10000  | 38.4   | 42.0   | 45.0   | 50.2   | 54.3   | 57.7   | 59.4   | 59.7   | 57.8   | 49.2   |     |     |     |     |     |     |
| NO. OF BLADES 15   | 12500  | 36.7   | 38.1   | 41.7   | 45.8   | 50.3   | 52.0   | 56.1   | 56.7   | 53.4   | 40.7   |     |     |     |     |     |     |
| FAN TIP SPEED      | 14000  | 29.2   | 33.2   | 37.1   | 42.5   | 46.7   | 48.9   | 51.0   | 51.0   | 47.9   | 39.1   |     |     |     |     |     |     |
| 542. FT/SEC        | 20000  | 22.0   | 27.0   | 30.5   | 35.0   | 40.5   | 44.0   | 45.0   | 40.0   | 42.6   | 31.3   |     |     |     |     |     |     |
|                    | 25000  | 14.9   | 18.0   | 21.3   | 25.0   | 30.5   | 34.3   | 35.0   | 35.1   | 30.7   | 18.2   |     |     |     |     |     |     |
|                    | 31500  |        | 7.1    | 10.0   | 13.0   | 17.0   | 23.0   | 23.0   | 21.9   | 19.0   |        |     |     |     |     |     |     |
|                    | 40000  |        |        |        |        | 3.1    | 6.0    | 6.0    | 2.1    |        |        |     |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |
| OVERALL CALCULATED | 60.7   | 62.5   | 63.9   | 66.1   | 68.7   | 70.1   | 71.9   | 71.5   | 70.6   | 69.0   | 59.0   |     |     |     |     |     |     |
| PH03               | 72.1   | 74.4   | 76.1   | 79.6   | 81.4   | 82.0   | 84.9   | 84.0   | 80.0   | 78.9   | 60.1   |     |     |     |     |     |     |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59, DEC, F, 70 PERCENT REL. HUM. DAY)

PROC. DATE - MONTH 6 DAY 29 HR: 20.1

ANGLES FROM IMPT IN DEGREES (AND RADTANS)

|                    | 53     | 67     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 154    | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | PUL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|-----|-----|-----|-----|-------|
| FREQ.              | (0.72) | (1.04) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.   | (0. | (0. | (0. | (0. | (0. | (0. | (0. | (0.)  |
| RADIAL 17, FT.     | 80     | 83.6   | 83.7   | 84.7   | 85.5   | 86.5   | 87.5   | 78.0   | 72.0   | 74.0   | 77.6   | 81.9  |     |     |     |     |     |     |     | 106.9 |
| ( 5, 4)            | 100    | 87.7   | 73.5   | 73.6   | 72.0   | 71.5   | 71.5   | 70.5   | 71.5   | 75.3   | 78.0   | 83.0  |     |     |     |     |     |     |     | 109.0 |
| VEHICLE 4-55       | 125    | 74.7   | 80.0   | 80.0   | 78.3   | 77.3   | 75.1   | 74.1   | 77.5   | 78.0   | 79.9   | 83.3  |     |     |     |     |     |     |     | 112.0 |
| CONFIG 73-14       | 160    | 78.9   | 71.5   | 71.5   | 72.5   | 72.0   | 75.0   | 76.5   | 78.3   | 80.4   | 83.2   |       |     |     |     |     |     |     |     | 110.3 |
| LOC SCHEMATIC ADV  | 200    | 78.7   | 78.5   | 71.1   | 72.1   | 74.4   | 75.4   | 78.0   | 79.1   | 79.9   | 81.4   | 84.0  |     |     |     |     |     |     |     | 111.4 |
| DATE 01-16-75      | 250    | 73.7   | 74.5   | 75.5   | 76.1   | 76.0   | 76.0   | 76.3   | 78.0   | 80.4   | 81.2   | 83.0  |     |     |     |     |     |     |     | 112.5 |
| RUN 5-3            | 315    | 75.2   | 76.1   | 76.0   | 76.9   | 77.4   | 77.4   | 77.8   | 77.9   | 79.4   | 80.4   | 82.5  |     |     |     |     |     |     |     | 112.5 |
| TAPE 25            | 400    | 75.4   | 74.4   | 74.5   | 75.3   | 75.3   | 76.2   | 77.2   | 77.5   | 78.0   | 80.4   | 81.4  |     |     |     |     |     |     |     | 111.2 |
| BAR 29.0 HG        | 500    | 74.5   | 72.9   | 72.2   | 74.7   | 75.0   | 76.7   | 77.9   | 78.7   | 79.7   | 80.5   | 81.1  |     |     |     |     |     |     |     | 111.5 |
| (03604; N/42)      | 630    | 74.5   | 75.5   | 76.1   | 77.1   | 77.0   | 78.5   | 80.5   | 80.9   | 81.6   | 80.9   | 80.5  |     |     |     |     |     |     |     | 113.3 |
| TANS 34; DCS F     | 800    | 74.0   | 76.5   | 75.4   | 76.6   | 77.9   | 78.4   | 80.3   | 80.4   | 80.9   | 80.7   | 79.5  |     |     |     |     |     |     |     | 112.0 |
| (274; DCS K)       | 1000   | 73.5   | 76.0   | 75.5   | 77.1   | 78.3   | 81.0   | 82.0   | 82.6   | 83.6   | 84.4   | 79.7  |     |     |     |     |     |     |     | 114.5 |
| TWT 39; DCS F      | 1250   | 74.5   | 77.5   | 76.6   | 78.7   | 80.4   | 82.4   | 83.0   | 83.9   | 84.9   | 83.5   | 80.0  |     |     |     |     |     |     |     | 115.0 |
| (275; DCS K)       | 1600   | 79.2   | 81.0   | 80.5   | 83.0   | 86.5   | 88.2   | 89.4   | 89.0   | 90.1   | 86.7   | 83.9  |     |     |     |     |     |     |     | 121.5 |
| NACT 4.54 C/M3     | 2000   | 78.0   | 78.0   | 79.5   | 82.1   | 84.0   | 86.5   | 88.5   | 89.4   | 89.2   | 87.0   | 83.0  |     |     |     |     |     |     |     | 123.3 |
| (.88459 K/M3)      | 2500   | 73.7   | 74.5   | 75.0   | 78.4   | 80.0   | 83.5   | 84.9   | 84.9   | 83.4   | 82.3   | 78.7  |     |     |     |     |     |     |     | 115.3 |
| NFA 6975; 43"      | 3150   | 75.5   | 75.5   | 76.1   | 76.9   | 82.3   | 86.0   | 87.0   | 87.2   | 86.7   | 84.6   | 79.7  |     |     |     |     |     |     |     | 119.2 |
| ( 730; RAD/SFC)    | 4000   | 72.0   | 74.1   | 75.0   | 79.2   | 82.0   | 87.0   | 87.9   | 84.2   | 89.5   | 84.0   | 88.4  |     |     |     |     |     |     |     | 119.1 |
| NFA 7114; 40"      | 4800   | 73.1   | 73.9   | 75.5   | 78.9   | 81.1   | 87.7   | 91.2   | 91.2   | 91.5   | 88.4   | 81.4  |     |     |     |     |     |     |     | 121.5 |
| ( 745; RAD/SFC)    | 6300   | 72.0   | 73.9   | 76.1   | 78.9   | 83.1   | 87.5   | 89.9   | 90.9   | 92.1   | 89.5   | 80.0  |     |     |     |     |     |     |     | 121.4 |
| NFA 8023; 40"      | 8000   | 74.0   | 74.0   | 76.5   | 79.0   | 83.7   | 88.2   | 90.7   | 92.0   | 92.5   | 86.0   | 81.0  |     |     |     |     |     |     |     | 122.2 |
| ( 924; RAD/SEC)    | 10000  | 74.0   | 75.1   | 77.5   | 81.7   | 85.7   | 88.0   | 92.1   | 93.0   | 94.2   | 88.1   | 82.2  |     |     |     |     |     |     |     | 123.0 |
| NO. OF BLADES 15   | 12500  | 71.4   | 73.0   | 75.0   | 79.0   | 84.4   | 86.7   | 90.2   | 92.1   | 92.6   | 87.4   | 80.5  |     |     |     |     |     |     |     | 122.4 |
| FAN TIP SPEED      | 14000  | 76.5   | 72.5   | 75.5   | 79.5   | 83.2   | 86.7   | 89.7   | 92.0   | 91.7   | 87.7   | 79.0  |     |     |     |     |     |     |     | 122.3 |
| 600. FT/SEC        | 20000  | 78.2   | 72.7   | 74.0   | 79.2   | 83.0   | 86.4   | 90.0   | 91.9   | 93.3   | 89.0   | 79.7  |     |     |     |     |     |     |     | 123.4 |
|                    | 25000  | 64.0   | 73.9   | 71.4   | 75.5   | 86.4   | 84.0   | 87.9   | 90.2   | 91.8   | 90.3   | 78.0  |     |     |     |     |     |     |     | 122.5 |
|                    | 31500  | 67.0   | 76.5   | 78.4   | 75.0   | 78.9   | 82.0   | 86.4   | 89.2   | 90.3   | 87.3   | 76.9  |     |     |     |     |     |     |     | 121.9 |
|                    | 40000  | 60.6   | 78.4   | 80.8   | 73.5   | 77.2   | 80.5   | 84.5   | 86.7   | 87.4   | 83.2   | 73.0  |     |     |     |     |     |     |     | 123.0 |
|                    | 50000  | 60.7   | 68.2   | 65.7   | 67.6   | 78.4   | 75.8   | 77.9   | 79.2   | 79.6   | 76.0   | 60.4  |     |     |     |     |     |     |     | 119.6 |
|                    | 63000  | 63.0   | 64.5   | 61.9   | 61.9   | 63.1   | 65.1   | 67.0   | 68.9   | 68.9   | 68.7   | 62.1  |     |     |     |     |     |     |     | 109.0 |
|                    | 80000  | 67.0   | 68.1   | 65.9   | 61.7   | 64.7   | 65.1   | 65.0   | 63.9   | 63.7   | 63.3   | 64.4  |     |     |     |     |     |     |     | 112.5 |
| OVERALL MEASURED   |        | 87.0   | 89.9   | 90.4   | 92.0   | 95.0   | 98.0   | 101.3  | 102.4  | 103.4  | 99.9   | 95.9  |     |     |     |     |     |     |     | 123.0 |
| OVERALL CALCULATED |        | 87.0   | 89.9   | 90.4   | 92.0   | 95.0   | 98.0   | 101.3  | 102.4  | 103.4  | 99.9   | 95.9  |     |     |     |     |     |     |     | 123.0 |
| PNDS               |        | 97.0   | 101.0  | 101.2  | 102.1  | 107.2  | 110.2  | 112.5  | 112.0  | 113.0  | 110.1  | 106.0 |     |     |     |     |     |     |     |       |

ORIGINAL PAGE IS  
OF POOR QUALITY

|                     | 93     | 92     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 154    | 0      | 0      | 0      | 0      | 0      | 0      |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ. (0, 2)        | (1, 0) | (1, 2) | (1, 4) | (1, 5) | (1, 7) | (1, 9) | (2, 1) | (2, 2) | (2, 3) | (2, 5) | (2, 7) | (0, 0) | (0, 0) | (0, 0) | (0, 0) | (0, 0) | (0, 0) |
| SIDELINE 200. FT.   | 80     | 40.0   | 41.0   | 42.7   | 43.0   | 45.0   | 45.0   | 47.0   | 47.0   | 49.7   | 51.1   | 52.0   |        |        |        |        |        |
| ( 90.96 M)          | 100    | 44.0   | 50.7   | 51.7   | 50.3   | 49.9   | 49.9   | 48.3   | 48.9   | 50.9   | 52.3   | 52.9   |        |        |        |        |        |
| VEHICLE 8-35        | 125    | 50.9   | 50.0   | 50.0   | 50.5   | 55.7   | 53.4   | 51.0   | 54.2   | 54.3   | 54.2   | 53.0   |        |        |        |        |        |
| CONFIS 75-17        | 160    | 47.0   | 48.0   | 49.0   | 50.7   | 50.0   | 50.9   | 52.0   | 53.0   | 53.7   | 54.5   | 52.0   |        |        |        |        |        |
| LOC SCHENECTADY     | 200    | 46.0   | 47.0   | 48.0   | 50.2   | 51.0   | 53.4   | 54.4   | 54.0   | 55.1   | 54.5   | 53.4   |        |        |        |        |        |
| DAYF 01-16-75       | 250    | 49.7   | 51.2   | 52.0   | 54.1   | 55.0   | 54.0   | 55.0   | 55.4   | 55.5   | 54.1   | 52.9   |        |        |        |        |        |
| RUN 51-2            | 315    | 51.1   | 52.9   | 54.1   | 54.0   | 55.4   | 55.2   | 55.2   | 54.3   | 54.4   | 53.2   | 51.0   |        |        |        |        |        |
| TAPE 25             | 400    | 49.1   | 50.9   | 51.0   | 53.1   | 53.2   | 54.0   | 54.5   | 53.6   | 53.7   | 52.9   | 50.1   |        |        |        |        |        |
| BAR 20.0 HG         | 500    | 47.9   | 49.9   | 50.5   | 52.0   | 53.0   | 54.3   | 55.1   | 55.0   | 54.5   | 52.9   | 49.5   |        |        |        |        |        |
| ( 6660 N/42)        | 630    | 50.0   | 51.0   | 53.3   | 54.7   | 55.6   | 56.0   | 57.0   | 57.0   | 56.2   | 55.2   | 48.7   |        |        |        |        |        |
| TANK 30, CFS F      | 800    | 49.3   | 52.7   | 52.9   | 54.1   | 55.9   | 55.0   | 57.3   | 56.4   | 55.4   | 54.0   | 47.4   |        |        |        |        |        |
| (270, CFS K)        | 1000   | 46.0   | 53.0   | 52.3   | 54.5   | 55.0   | 56.4   | 56.0   | 56.5   | 57.0   | 54.2   | 47.3   |        |        |        |        |        |
| TWEY 35, LFS F      | 1250   | 47.5   | 53.4   | 53.9   | 55.9   | 57.0   | 56.0   | 60.3   | 59.0   | 59.1   | 55.1   | 47.2   |        |        |        |        |        |
| (275, CFS K)        | 1430   | 53.0   | 56.0   | 57.1   | 60.9   | 63.7   | 63.2   | 65.9   | 65.3   | 64.0   | 59.9   | 51.0   |        |        |        |        |        |
| NACY 4.54 C/M3      | 2000   | 52.0   | 54.5   | 55.0   | 57.0   | 61.9   | 63.4   | 64.0   | 64.7   | 62.0   | 56.0   | 49.2   |        |        |        |        |        |
| (.00454 KC/M3)      | 2500   | 48.1   | 50.0   | 52.1   | 55.1   | 57.7   | 60.2   | 60.1   | 59.9   | 58.0   | 52.0   | 44.5   |        |        |        |        |        |
| NFA 6073, RPM       | 3150   | 47.3   | 50.3   | 52.0   | 55.4   | 58.9   | 62.4   | 62.0   | 61.9   | 63.7   | 54.0   | 46.0   |        |        |        |        |        |
| ( 730, RAD/SEC)     | 4000   | 40.0   | 48.0   | 51.1   | 55.2   | 59.0   | 63.0   | 63.3   | 60.4   | 61.0   | 54.3   | 44.4   |        |        |        |        |        |
| NFR 7117, RPM       | 5000   | 40.2   | 48.3   | 50.6   | 54.7   | 60.0   | 63.9   | 64.3   | 62.1   | 63.3   | 53.4   | 44.0   |        |        |        |        |        |
| ( 745, RAD/SEC)     | 6300   | 43.0   | 47.3   | 50.7   | 53.9   | 58.3   | 62.5   | 64.3   | 64.0   | 63.2   | 54.2   | 42.1   |        |        |        |        |        |
| NFB 8020, RPM       | 8000   | 43.3   | 47.0   | 49.9   | 53.0   | 57.9   | 62.2   | 63.9   | 63.9   | 62.1   | 54.7   | 40.5   |        |        |        |        |        |
| ( 924, RAD/SEC)     | 10000  | 41.7   | 45.0   | 47.1   | 54.2   | 58.4   | 61.2   | 63.6   | 63.0   | 61.6   | 51.2   | 37.0   |        |        |        |        |        |
| NO. OF BLADES 15    | 17500  | 37.5   | 41.9   | 45.3   | 50.1   | 54.9   | 58.0   | 59.4   | 57.5   | 56.9   | 49.5   | 29.0   |        |        |        |        |        |
| FAN TIP SPEED 15000 | 20000  | 31.7   | 34.3   | 41.0   | 44.1   | 50.1   | 53.2   | 55.0   | 53.1   | 51.0   | 40.4   | 19.0   |        |        |        |        |        |
| 600, FT/SEC         | 25000  | 25.6   | 31.2   | 35.4   | 40.9   | 45.1   | 48.1   | 50.2   | 49.4   | 46.0   | 34.1   | 6.9    |        |        |        |        |        |
|                     | 31500  | 21.5   | 24.0   | 24.0   | 30.2   | 35.7   | 38.0   | 40.0   | 39.6   | 35.0   | 22.4   |        |        |        |        |        |        |
|                     | 40000  | 11.7   | 9.0    | 13.5   | 19.9   | 24.3   | 27.2   | 28.0   | 20.0   | 19.0   | 3.7    |        |        |        |        |        |        |
|                     | 50000  |        |        |        | 11.1   | 7.9    | 9.9    | 10.0   | 0.5    |        |        |        |        |        |        |        |        |
|                     | 61000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                     | 80000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED  | 62.2   | 65.4   | 66.4   | 66.0   | 71.2   | 73.5   | 74.0   | 74.2   | 73.3   | 69.0   | 63.2   |        |        |        |        |        |        |
| PRSD                | 70.7   | 70.4   | 77.7   | 80.0   | 83.0   | 80.3   | 87.9   | 87.0   | 86.0   | 80.2   | 72.0   |        |        |        |        |        |        |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 4 DAY 29 HR: 20.1

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53     | 67     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 154    | 0     | 0     | 0     | 0     | 0     | 0     | PWL   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) |       |
| RADIAL 17, FT.     | 50     |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
| ( 5, M)            | 63     |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
| VEHICLE R-55       | 80     | 64.4   | 65.4   | 67.2   | 67.7   | 68.7   | 70.2   | 73.2   | 74.7   | 76.7   | 80.8   | 85.2  |       |       |       |       |       | 109.9 |
| CONFIG 75-1R       | 100    | 67.9   | 71.2   | 72.5   | 72.3   | 73.3   | 73.8   | 74.0   | 74.3   | 78.3   | 82.4   | 87.2  |       |       |       |       |       | 111.9 |
| LOC SCHEMECTADY    | 125    | 75.5   | 77.8   | 76.8   | 76.3   | 77.1   | 77.8   | 78.8   | 80.1   | 80.6   | 82.9   | 87.0  |       |       |       |       |       | 114.3 |
| DATE 01-16-75      | 160    | 73.9   | 74.2   | 74.8   | 75.3   | 75.0   | 75.5   | 78.3   | 79.3   | 81.5   | 83.6   | 87.0  |       |       |       |       |       | 113.5 |
| HUN 51-6           | 200    | 73.0   | 73.1   | 73.6   | 74.6   | 76.6   | 78.6   | 79.6   | 80.9   | 82.6   | 83.4   | 87.8  |       |       |       |       |       | 114.7 |
| TAPE 25            | 250    | 77.7   | 77.5   | 79.1   | 79.6   | 80.1   | 81.4   | 82.6   | 83.6   | 84.6   | 86.7   | 88.0  |       |       |       |       |       | 116.8 |
| BAR 29.8 MC        | 315    | 76.0   | 76.6   | 79.1   | 79.4   | 79.9   | 80.4   | 80.8   | 81.1   | 82.1   | 83.7   | 86.0  |       |       |       |       |       | 115.2 |
| (00698, N/M2)      | 400    | 76.7   | 77.2   | 77.3   | 77.8   | 78.8   | 79.2   | 80.5   | 80.8   | 82.0   | 83.9   | 85.2  |       |       |       |       |       | 114.5 |
| TAMR 38, DEG F     | 500    | 75.6   | 75.4   | 76.4   | 77.4   | 78.4   | 79.4   | 81.1   | 81.7   | 82.7   | 84.3   | 84.8  |       |       |       |       |       | 114.6 |
| (276, DEG K)       | 630    | 77.2   | 77.0   | 76.1   | 79.3   | 80.3   | 81.1   | 83.0   | 83.4   | 83.9   | 83.9   | 84.0  |       |       |       |       |       | 115.7 |
| TWET 35, DEG F     | 800    | 76.5   | 76.8   | 76.4   | 78.6   | 80.1   | 81.1   | 82.1   | 83.4   | 83.9   | 84.0   | 83.3  |       |       |       |       |       | 115.5 |
| (275, DEG K)       | 1000   | 78.2   | 77.3   | 76.6   | 79.6   | 80.3   | 82.5   | 84.0   | 84.6   | 85.9   | 84.2   | 82.7  |       |       |       |       |       | 116.6 |
| MACT 4.54 GM/M3    | 1250   | 77.5   | 76.6   | 79.1   | 79.2   | 82.4   | 83.9   | 85.3   | 85.7   | 86.7   | 84.5   | 82.3  |       |       |       |       |       | 117.3 |
| (.00454 KC/M3)     | 1600   | 79.2   | 74.2   | 80.5   | 82.0   | 84.2   | 86.0   | 87.9   | 88.6   | 88.8   | 85.2   | 81.9  |       |       |       |       |       | 119.6 |
| NFA 7746, RPM      | 2000   | 84.0   | 84.1   | 85.8   | 87.4   | 88.8   | 91.5   | 94.3   | 95.9   | 96.7   | 90.6   | 87.2  |       |       |       |       |       | 126.1 |
| ( 811, RAD/SEC)    | 2500   | 77.2   | 78.0   | 81.3   | 82.6   | 84.6   | 85.7   | 86.9   | 88.4   | 89.7   | 84.5   | 81.4  |       |       |       |       |       | 119.3 |
| NFA 7900, RPM      | 3150   | 75.5   | 76.3   | 79.6   | 81.2   | 83.8   | 86.2   | 87.2   | 88.9   | 91.0   | 83.1   | 80.9  |       |       |       |       |       | 119.9 |
| ( 828, RAD/SEC)    | 4000   | 75.8   | 77.9   | 79.6   | 83.2   | 86.8   | 90.2   | 90.9   | 90.9   | 92.7   | 88.4   | 83.4  |       |       |       |       |       | 122.6 |
| NFA 8023, RPM      | 5000   | 74.8   | 75.4   | 77.6   | 80.7   | 84.8   | 89.7   | 91.9   | 92.4   | 93.5   | 87.9   | 83.2  |       |       |       |       |       | 125.0 |
| ( 828, RAD/SEC)    | 6300   | 79.3   | 77.9   | 80.4   | 85.1   | 88.6   | 91.0   | 94.4   | 94.9   | 95.8   | 89.0   | 83.6  |       |       |       |       |       | 125.2 |
| NFA 8023, RPM      | 8000   | 75.7   | 77.1   | 79.7   | 83.6   | 86.7   | 91.0   | 93.4   | 95.0   | 95.0   | 88.7   | 84.1  |       |       |       |       |       | 124.9 |
| ( 828, RAD/SEC)    | 10000  | 75.8   | 78.4   | 81.1   | 85.0   | 88.9   | 91.8   | 94.6   | 96.7   | 96.2   | 90.1   | 84.2  |       |       |       |       |       | 126.4 |
| NO. OF BLADES 15   | 17500  | 74.9   | 76.6   | 79.6   | 84.4   | 87.7   | 90.7   | 93.4   | 95.6   | 95.6   | 89.6   | 83.8  |       |       |       |       |       | 125.6 |
| FAN TIP SPEED      | 16000  | 73.3   | 75.6   | 78.8   | 83.5   | 86.9   | 89.9   | 93.0   | 95.0   | 94.2   | 89.4   | 82.5  |       |       |       |       |       | 125.2 |
| 676, FT/SEC        | 20000  | 73.7   | 76.2   | 79.3   | 83.2   | 87.3   | 91.2   | 93.7   | 96.2   | 96.3   | 92.1   | 83.7  |       |       |       |       |       | 127.3 |
|                    | 25000  | 71.8   | 74.0   | 76.1   | 80.3   | 85.1   | 88.0   | 92.4   | 95.0   | 96.1   | 94.8   | 83.3  |       |       |       |       |       | 126.7 |
|                    | 31500  | 76.3   | 72.8   | 74.7   | 79.5   | 82.6   | 86.8   | 90.4   | 93.7   | 94.1   | 91.3   | 80.2  |       |       |       |       |       | 125.9 |
|                    | 40000  | 78.3   | 72.2   | 72.9   | 77.0   | 80.4   | 84.8   | 89.0   | 90.5   | 91.4   | 89.4   | 76.9  |       |       |       |       |       | 124.9 |
|                    | 50000  | 67.2   | 68.2   | 67.7   | 71.1   | 74.2   | 77.6   | 82.2   | 82.9   | 83.3   | 84.8   | 78.6  |       |       |       |       |       | 119.9 |
|                    | 60000  | 63.5   | 64.0   | 62.4   | 62.9   | 64.9   | 67.4   | 71.5   | 72.7   | 73.2   | 75.4   | 63.3  |       |       |       |       |       | 112.7 |
|                    | 80000  | 67.8   | 68.1   | 65.9   | 64.7   | 64.7   | 65.1   | 65.8   | 66.0   | 66.5   | 64.3   | 64.4  |       |       |       |       |       | 112.8 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
| OVERALL CALCULATED |        | 91.0   | 91.6   | 93.5   | 95.8   | 98.6   | 101.7  | 104.3  | 106.0  | 106.5  | 102.3  | 99.1  |       |       |       |       |       | 137.0 |
| PNOB               |        | 103.7  | 104.1  | 105.9  | 107.7  | 110.1  | 112.9  | 114.9  | 116.7  | 116.7  | 112.5  | 109.7 |       |       |       |       |       |       |

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM. DAY)  
 PROC. DATE - MONTH 4 DAY 29 HR: 20.1  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.              | 53    | 62    | 71    | 81    | 91    | 101   | 111   | 122   | 133   | 145   | 154   | 164 | 174 | 184 | 194 | 204 | 214 | 224 | 234 | 244 | 254 | 264 | 274 | 284 | 294 | 304 |  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| SIOFLINE 200. FT.  | 40.8  | 42.8  | 45.2  | 46.1  | 47.2  | 48.5  | 51.1  | 51.7  | 52.4  | 54.4  | 55.3  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| ( 90.96 M )        | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   | 100   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| VEHICLE R-55       | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| CONFIG 75-18       | 160   | 160   | 160   | 160   | 160   | 160   | 160   | 160   | 160   | 160   | 160   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| LOC SCHNECTADY     | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| DATE 01-16-75      | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| NUM 51-4           | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| TAPP 25            | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| BAN 29.6 HG        | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| (00598; N/12)      | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| TAMP 38; DFG F     | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| ( 111; R12/SFC )   | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| IME 275; DFG F     | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| ( 820; RAD/SEC )   | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| NACT 4.34 G/M3     | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| (.00494 MG/M3)     | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| NFA 7746 RPM       | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| ( 811; RAD/SEC )   | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| NFK 7908 RPM       | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| ( 820; RAD/SEC )   | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| NFD 8823 RPM       | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| ( 924; RAD/SEC )   | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| NO. OF BLADES 15   | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| FAN TIP SPEED      | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 676. FT/SEC        | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                    | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                    | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                    | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                    | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                    | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|                    | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| OVERALL CALCULATED | 65.3  | 66.5  | 69.1  | 71.2  | 73.5  | 76.0  | 77.5  | 77.4  | 76.4  | 78.3  | 66.7  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| PNDB               | 77.8  | 79.4  | 82.0  | 84.2  | 86.4  | 89.0  | 90.5  | 90.5  | 89.7  | 82.6  | 75.4  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |



470

MODEL SOUND PRESSURE LEVELS (50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160) DEC, F, 70 PERCENT REL, WPM, DAY

PROC. DATE - MONTH 4 DAY 29 HR: 20:4

ANGLES FROM INLET IN DEGREES (AND RADIAN(S))

|                     | FREQ. (0, 55, 62, 71, 81, 91, 101, 111, 122, 133, 145, 156, 167, 180, 190, 200, 210, 220, 230, 240, 250) |         |         |         |         |         |         |         |         |         |         |        |         |         |         |         | PNL |         |
|---------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|-----|---------|
|                     | (0, 92)  | (1, 50) | (1, 23) | (1, 41) | (1, 58) | (1, 76) | (1, 94) | (2, 13) | (2, 32) | (2, 52) | (2, 73) | (0, 8) | (0, 10) | (0, 10) | (0, 10) | (0, 10) |     | (0, 10) |
| RADIAL 17, FT       | 64,1   | 65,7    | 66,5    | 67,7    | 68,5    | 70,0    | 72,7    | 74,7    | 77,0    | 80,6    | 85,4    |        |         |         |         |         |     | 110,8   |
| ( 5, 4)             | 100  | 67,7    | 71,2    | 72,5    | 72,8    | 73,0    | 74,0    | 74,0    | 75,8    | 77,8    | 82,1    | 87,0   |         |         |         |         |     | 111,7   |
| VEHICLE R-55        | 125  | 75,2    | 77,3    | 78,5    | 78,8    | 79,8    | 77,3    | 79,6    | 80,6    | 82,6    | 87,7    | 92,8   |         |         |         |         |     | 113,7   |
| CONFIG 75-19        | 150  | 73,9    | 74,5    | 74,8    | 75,5    | 75,3    | 75,8    | 79,3    | 79,3    | 81,3    | 83,6    | 86,7   |         |         |         |         |     | 113,5   |
| LOC SCHEMECTADY     | 200  | 73,5    | 73,3    | 74,1    | 74,6    | 76,4    | 78,6    | 79,6    | 81,1    | 82,6    | 82,2    | 87,9   |         |         |         |         |     | 114,6   |
| DATE 01-15-75       | 250  | 77,5    | 77,5    | 78,8    | 78,8    | 80,6    | 81,3    | 82,3    | 85,1    | 84,9    | 86,2    | 87,8   |         |         |         |         |     | 116,8   |
| RUN 51-3            | 315  | 77,7    | 78,3    | 78,6    | 79,1    | 79,9    | 80,1    | 80,1    | 81,1    | 82,1    | 83,7    | 86,3   |         |         |         |         |     | 115,1   |
| TAPE 25             | 400  | 76,7    | 76,7    | 77,3    | 77,6    | 78,5    | 78,7    | 80,2    | 81,3    | 81,5    | 83,1    | 85,7   |         |         |         |         |     | 114,4   |
| BAR 29.8 HG         | 500  | 74,8    | 75,0    | 75,9    | 76,9    | 77,9    | 79,4    | 81,1    | 81,7    | 82,7    | 83,8    | 84,6   |         |         |         |         |     | 114,4   |
| (00696: N/M2)       | 630  | 75,7    | 77,3    | 78,1    | 79,1    | 80,1    | 81,3    | 82,8    | 83,4    | 83,6    | 83,9    | 83,8   |         |         |         |         |     | 115,6   |
| TAPE 30: 275 F      | 800  | 76,5    | 77,3    | 77,7    | 78,7    | 80,1    | 81,9    | 83,1    | 83,4    | 83,7    | 83,5    | 83,0   |         |         |         |         |     | 115,5   |
| (276: DEG F)        | 1000   | 75,2    | 77,3    | 77,6    | 79,6    | 80,6    | 82,8    | 84,3    | 84,6    | 85,4    | 83,9    | 82,2   |         |         |         |         |     | 116,4   |
| INLET 35: DEG F     | 1250   | 77,3    | 77,3    | 78,9    | 81,4    | 82,4    | 83,9    | 85,3    | 86,2    | 86,7    | 84,5    | 82,3   |         |         |         |         |     | 117,6   |
| (275: DEG K)        | 1500   | 79,2    | 80,5    | 81,7    | 82,3    | 84,2    | 85,7    | 86,4    | 82,8    | 88,3    | 85,4    | 81,6   |         |         |         |         |     | 119,7   |
| MACY 4.54 G/M3      | 2000   | 83,8    | 84,1    | 85,3    | 87,1    | 88,8    | 91,3    | 94,5    | 96,4    | 98,2    | 91,1    | 86,7   |         |         |         |         |     | 120,1   |
| (.00454 KG/M3)      | 2500   | 77,5    | 78,2    | 79,8    | 82,6    | 84,8    | 86,3    | 87,4    | 88,4    | 89,7    | 84,5    | 81,4   |         |         |         |         |     | 119,7   |
| NFA 7740: RPM       | 3150   | 75,8    | 77,1    | 78,6    | 80,7    | 83,8    | 86,2    | 88,0    | 90,4    | 91,0    | 83,1    | 81,2   |         |         |         |         |     | 119,9   |
| ( 810: RAD/SEC)     | 4000   | 75,6    | 78,1    | 79,8    | 83,4    | 87,1    | 90,3    | 91,4    | 91,2    | 93,0    | 88,4    | 83,7   |         |         |         |         |     | 122,9   |
| NFA 7210: RPM       | 5000   | 75,1    | 76,1    | 78,3    | 81,2    | 85,1    | 89,2    | 92,4    | 92,2    | 93,0    | 87,6    | 83,2   |         |         |         |         |     | 122,9   |
| ( 820: RAD/SEC)     | 6300   | 76,3    | 77,9    | 80,6    | 83,1    | 87,1    | 90,5    | 94,9    | 94,9    | 95,8    | 88,7    | 84,3   |         |         |         |         |     | 125,3   |
| NFA 8620: RPM       | 8000   | 75,7    | 77,6    | 80,2    | 83,6    | 87,2    | 91,0    | 93,4    | 95,8    | 94,6    | 89,7    | 83,8   |         |         |         |         |     | 125,3   |
| ( 924: RAD/SEC)     | 10000  | 76,3    | 77,4    | 81,3    | 85,7    | 88,9    | 92,1    | 95,1    | 96,7    | 96,7    | 90,6    | 84,2   |         |         |         |         |     | 126,7   |
| NO. OF BLADES 15    | 12500  | 79,2    | 77,1    | 81,1    | 83,5    | 87,9    | 93,9    | 93,4    | 95,6    | 95,6    | 89,9    | 83,2   |         |         |         |         |     | 125,7   |
| FAN TIP SPEED 18000 | 20000  | 73,8    | 76,3    | 79,1    | 83,5    | 86,9    | 89,4    | 93,0    | 95,2    | 94,4    | 90,7    | 82,3   |         |         |         |         |     | 125,4   |
| 23000               | 25000  | 78,2    | 78,9    | 80,0    | 83,4    | 87,8    | 90,7    | 94,0    | 96,4    | 96,5    | 92,6    | 83,7   |         |         |         |         |     | 127,2   |
| 25000               | 31500  | 72,5    | 74,3    | 76,6    | 80,5    | 84,6    | 88,8    | 92,9    | 95,5    | 96,3    | 94,5    | 83,3   |         |         |         |         |     | 127,3   |
| 31500               | 40000  | 70,3    | 73,5    | 75,4    | 78,8    | 82,6    | 86,8    | 90,9    | 94,2    | 94,1    | 92,1    | 82,2   |         |         |         |         |     | 125,3   |
| 40000               | 50000  | 70,3    | 72,2    | 73,1    | 77,3    | 80,4    | 84,3    | 89,0    | 91,0    | 91,1    | 90,9    | 76,9   |         |         |         |         |     | 125,2   |
| 50000               | 63000  | 68,8    | 68,7    | 68,5    | 70,6    | 73,7    | 77,6    | 82,2    | 83,2    | 83,6    | 80,5    | 70,9   |         |         |         |         |     | 123,4   |
| 63000               | 80000  | 46,5    | 64,3    | 62,7    | 63,6    | 65,1    | 67,4    | 71,8    | 72,9    | 72,9    | 75,7    | 63,8   |         |         |         |         |     | 112,9   |
| 80000               |  | 67,8    | 68,1    | 65,2    | 65,7    | 64,7    | 65,1    | 65,8    | 66,3    | 66,7    | 64,4    |        |         |         |         |         |     | 113,3   |
| OVERALL MEASURED    |  |         |         |         |         |         |         |         |         |         |         |        |         |         |         |         |     |         |
| OVERALL CALCULATED  |  | 90,9    | 91,8    | 93,3    | 95,9    | 98,8    | 101,7   | 104,6   | 106,2   | 106,5   | 102,9   | 99,0   |         |         |         |         |     | 117,2   |
| PNOB                | 103,5  | 104,3   | 105,8   | 107,6   | 110,2   | 113,0   | 115,3   | 118,0   | 116,6   | 112,5   | 109,5   |        |         |         |         |         |     |         |

|                     | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0     | 0     | 0     | 0     | 0     | 0     |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
|                     | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)   | (0)   | (0)   | (0)   | (0)   | (0)   |
| SIDELINE 200 FT:    | 50     | 53     | 56     | 59     | 62     | 65     | 68     | 71     | 74     | 77     | 80     | 83    | 86    | 89    | 92    | 95    | 98    |
| ( 90.96 M)          | 100    | 103    | 106    | 109    | 112    | 115    | 118    | 121    | 124    | 127    | 130    | 133   | 136   | 139   | 142   | 145   | 148   |
| VEHICLE R-55        | 125    | 128    | 131    | 134    | 137    | 140    | 143    | 146    | 149    | 152    | 155    | 158   | 161   | 164   | 167   | 170   | 173   |
| CONFIG 75-10        | 160    | 163    | 166    | 169    | 172    | 175    | 178    | 181    | 184    | 187    | 190    | 193   | 196   | 199   | 202   | 205   | 208   |
| LOC SCHEMECTADY     | 200    | 203    | 206    | 209    | 212    | 215    | 218    | 221    | 224    | 227    | 230    | 233   | 236   | 239   | 242   | 245   | 248   |
| LOC 01-16-75        | 250    | 253    | 256    | 259    | 262    | 265    | 268    | 271    | 274    | 277    | 280    | 283   | 286   | 289   | 292   | 295   | 298   |
| DAY 51-5            | 315    | 318    | 321    | 324    | 327    | 330    | 333    | 336    | 339    | 342    | 345    | 348   | 351   | 354   | 357   | 360   | 363   |
| RUN 51-5            | 400    | 403    | 406    | 409    | 412    | 415    | 418    | 421    | 424    | 427    | 430    | 433   | 436   | 439   | 442   | 445   | 448   |
| TAPE 25             | 500    | 503    | 506    | 509    | 512    | 515    | 518    | 521    | 524    | 527    | 530    | 533   | 536   | 539   | 542   | 545   | 548   |
| BAR 29.0 HG         | 630    | 633    | 636    | 639    | 642    | 645    | 648    | 651    | 654    | 657    | 660    | 663   | 666   | 669   | 672   | 675   | 678   |
| (.0658 N/42)        | 600    | 603    | 606    | 609    | 612    | 615    | 618    | 621    | 624    | 627    | 630    | 633   | 636   | 639   | 642   | 645   | 648   |
| TAMS 39 DEG F       | 1300   | 1303   | 1306   | 1309   | 1312   | 1315   | 1318   | 1321   | 1324   | 1327   | 1330   | 1333  | 1336  | 1339  | 1342  | 1345  | 1348  |
| (278 DEG K)         | 1250   | 1253   | 1256   | 1259   | 1262   | 1265   | 1268   | 1271   | 1274   | 1277   | 1280   | 1283  | 1286  | 1289  | 1292  | 1295  | 1298  |
| TMET 39 DEG F       | 1600   | 1603   | 1606   | 1609   | 1612   | 1615   | 1618   | 1621   | 1624   | 1627   | 1630   | 1633  | 1636  | 1639  | 1642  | 1645  | 1648  |
| (273 DEG K)         | 2000   | 2003   | 2006   | 2009   | 2012   | 2015   | 2018   | 2021   | 2024   | 2027   | 2030   | 2033  | 2036  | 2039  | 2042  | 2045  | 2048  |
| MACY 4.35 GW/M3     | 2500   | 2503   | 2506   | 2509   | 2512   | 2515   | 2518   | 2521   | 2524   | 2527   | 2530   | 2533  | 2536  | 2539  | 2542  | 2545  | 2548  |
| (.00494 KG/M3)      | 3150   | 3153   | 3156   | 3159   | 3162   | 3165   | 3168   | 3171   | 3174   | 3177   | 3180   | 3183  | 3186  | 3189  | 3192  | 3195  | 3198  |
| NFA 7740 RPM        | 4000   | 4003   | 4006   | 4009   | 4012   | 4015   | 4018   | 4021   | 4024   | 4027   | 4030   | 4033  | 4036  | 4039  | 4042  | 4045  | 4048  |
| ( 811 RAD/SEC)      | 5000   | 5003   | 5006   | 5009   | 5012   | 5015   | 5018   | 5021   | 5024   | 5027   | 5030   | 5033  | 5036  | 5039  | 5042  | 5045  | 5048  |
| NFR 791 RPM         | 6300   | 6303   | 6306   | 6309   | 6312   | 6315   | 6318   | 6321   | 6324   | 6327   | 6330   | 6333  | 6336  | 6339  | 6342  | 6345  | 6348  |
| ( 828 RAD/SEC)      | 8000   | 8003   | 8006   | 8009   | 8012   | 8015   | 8018   | 8021   | 8024   | 8027   | 8030   | 8033  | 8036  | 8039  | 8042  | 8045  | 8048  |
| NFD 8823 RPM        | 10000  | 10003  | 10006  | 10009  | 10012  | 10015  | 10018  | 10021  | 10024  | 10027  | 10030  | 10033 | 10036 | 10039 | 10042 | 10045 | 10048 |
| (.924 RAD/SEC)      | 12500  | 12503  | 12506  | 12509  | 12512  | 12515  | 12518  | 12521  | 12524  | 12527  | 12530  | 12533 | 12536 | 12539 | 12542 | 12545 | 12548 |
| NO. OF BLADES 15    | 35.2   | 40.1   | 44.7   | 49.1   | 53.4   | 57.6   | 61.8   | 65.9   | 70.0   | 74.1   | 78.2   | 82.3  | 86.4  | 90.5  | 94.6  | 98.7  | 102.8 |
| FAN TIP SPEED 10000 | 29.6   | 33.9   | 38.1   | 42.2   | 46.3   | 50.4   | 54.5   | 58.6   | 62.7   | 66.8   | 70.9   | 75.0  | 79.1  | 83.2  | 87.3  | 91.4  | 95.5  |
| 676 FT/SEC 20000    | 19.2   | 25.0   | 30.7   | 36.4   | 42.1   | 47.8   | 53.5   | 59.2   | 64.9   | 70.6   | 76.3   | 82.0  | 87.7  | 93.4  | 99.1  | 104.8 | 110.5 |
| 31500               | 4.7    | 12.9   | 18.3   | 24.6   | 31.0   | 37.4   | 43.8   | 50.2   | 56.6   | 63.0   | 69.4   | 75.8  | 82.2  | 88.6  | 95.0  | 101.4 | 107.8 |
| 40000               |        |        | 0.3    | 7.1    | 11.1   | 15.1   | 19.1   | 23.1   | 27.1   | 31.1   | 35.1   | 39.1  | 43.1  | 47.1  | 51.1  | 55.1  | 59.1  |
| 50000               |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
| 63000               |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
| 80000               |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
| OVERALL CALCULATED  | 65.1   | 66.9   | 68.8   | 71.2   | 73.6   | 75.9   | 77.8   | 77.8   | 76.2   | 70.3   | 66.5   |       |       |       |       |       |       |
| PNDB                | 77.7   | 79.6   | 81.7   | 84.1   | 86.5   | 89.1   | 90.6   | 90.7   | 89.4   | 82.7   | 75.2   |       |       |       |       |       |       |

|                     | FREQ.   | 33      | 62      | 71      | 81      | 91      | 101     | 111     | 122     | 133     | 145     | 156    | 0      | 0      | 0      | 0      | 0      | 0 | PWL   |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---|-------|
|                     | (0, V2) | (1, 00) | (1, 24) | (1, 41) | (1, 58) | (1, 76) | (1, 94) | (2, 13) | (2, 32) | (2, 52) | (2, 73) | (3, 0) | (3, 0) | (3, 0) | (3, 0) | (3, 0) | (3, 0) |   |       |
|                     | 50      |         |         |         |         |         |         |         |         |         |         |        |        |        |        |        |        |   |       |
|                     | 63      |         |         |         |         |         |         |         |         |         |         |        |        |        |        |        |        |   |       |
| RADIAL 17, FT.      | 80      | 67,6    | 70,2    | 73,0    | 75,5    | 79,7    | 74,2    | 71,7    | 68,7    | 69,2    | 72,3    | 75,2   |        |        |        |        |        |   | 107,8 |
| ( 5, M)             | 100     | 72,4    | 75,2    | 78,3    | 80,0    | 80,8    | 79,5    | 76,3    | 69,0    | 72,3    | 75,1    | 77,0   |        |        |        |        |        |   | 111,5 |
| VEHICLE R=55        | 125     | 67,7    | 68,6    | 71,3    | 68,1    | 71,6    | 67,8    | 67,6    | 71,1    | 71,8    | 71,9    | 75,5   |        |        |        |        |        |   | 104,7 |
| CONFIG 75-19        | 140     | 62,9    | 66,0    | 66,3    | 66,5    | 66,8    | 66,8    | 68,3    | 69,3    | 71,0    | 72,9    | 74,7   |        |        |        |        |        |   | 103,2 |
| LOC SCHNEERTADY     | 200     | 67,0    | 71,1    | 67,1    | 67,1    | 68,4    | 69,6    | 70,3    | 71,6    | 72,4    | 73,7    | 76,0   |        |        |        |        |        |   | 105,0 |
| DATE 01-16-75       | 250     | 67,2    | 70,3    | 69,3    | 69,8    | 70,1    | 70,6    | 71,6    | 72,1    | 72,6    | 73,9    | 75,3   |        |        |        |        |        |   | 105,5 |
| HUN 51-0            | 315     | 63,0    | 71,3    | 70,1    | 70,6    | 71,1    | 71,1    | 71,1    | 71,4    | 72,4    | 73,2    | 73,8   |        |        |        |        |        |   | 105,9 |
| TAPE 25             | 400     | 66,7    | 68,2    | 68,8    | 69,3    | 69,8    | 70,5    | 71,0    | 71,3    | 72,3    | 73,1    | 73,9   |        |        |        |        |        |   | 104,8 |
| BAR 29,8 HG         | 500     | 67,1    | 68,1    | 67,9    | 69,2    | 69,9    | 70,4    | 71,6    | 72,7    | 73,2    | 74,0    | 74,3   |        |        |        |        |        |   | 105,3 |
| (00698, N/M2)       | 630     | 69,7    | 70,3    | 71,3    | 71,6    | 72,8    | 73,6    | 75,3    | 75,4    | 75,6    | 75,4    | 74,0   |        |        |        |        |        |   | 107,7 |
| TAMP 38, DEG F      | 800     | 68,5    | 69,1    | 69,1    | 70,1    | 71,4    | 72,9    | 74,6    | 75,9    | 76,7    | 76,7    | 73,8   |        |        |        |        |        |   | 107,6 |
| (278, DEG K)        | 1030    | 65,2    | 69,8    | 69,6    | 71,6    | 73,3    | 75,3    | 77,8    | 78,9    | 79,6    | 79,2    | 74,7   |        |        |        |        |        |   | 110,1 |
| WET 35, DEG F       | 1250    | 75,3    | 74,3    | 75,1    | 78,7    | 79,4    | 81,9    | 83,8    | 84,7    | 85,7    | 86,0    | 78,8   |        |        |        |        |        |   | 119,2 |
| (275, DEG K)        | 1600    | 72,9    | 73,5    | 74,2    | 75,5    | 78,0    | 80,0    | 81,4    | 82,8    | 82,8    | 82,4    | 76,6   |        |        |        |        |        |   | 113,8 |
| MACT 4,54 C/M3      | 2000    | 70,5    | 70,3    | 71,1    | 73,9    | 75,6    | 77,5    | 80,0    | 80,4    | 81,2    | 81,1    | 76,5   |        |        |        |        |        |   | 112,0 |
| (.00454 AC/M3)      | 2500    | 68,7    | 69,3    | 71,5    | 73,1    | 76,3    | 77,7    | 79,7    | 81,1    | 83,4    | 82,5    | 77,4   |        |        |        |        |        |   | 112,8 |
| NFA 5429, RPM       | 3150    | 66,3    | 67,6    | 69,1    | 71,2    | 74,1    | 77,0    | 78,5    | 79,7    | 82,2    | 81,1    | 73,9   |        |        |        |        |        |   | 111,5 |
| ( 568, RAD/SEC)     | 4000    | 68,3    | 67,6    | 68,8    | 72,2    | 76,3    | 79,7    | 81,2    | 81,4    | 83,2    | 83,9    | 78,2   |        |        |        |        |        |   | 113,5 |
| NFK 5542, RPM       | 5300    | 66,3    | 66,9    | 68,8    | 71,4    | 75,6    | 79,2    | 83,2    | 83,7    | 84,3    | 83,1    | 75,9   |        |        |        |        |        |   | 114,3 |
| ( 560, RAD/SEC)     | 6300    | 66,5    | 67,7    | 69,6    | 71,9    | 75,8    | 79,5    | 82,9    | 84,4    | 85,6    | 83,5    | 76,6   |        |        |        |        |        |   | 114,9 |
| NFD 6623, RPM       | 8000    | 62,9    | 67,6    | 69,5    | 71,8    | 76,0    | 80,2    | 83,2    | 84,5    | 85,5    | 84,2    | 76,1   |        |        |        |        |        |   | 115,3 |
| ( 924, RAD/SEC)     | 11000   | 66,3    | 69,1    | 69,8    | 73,5    | 77,4    | 80,8    | 84,1    | 85,5    | 86,7    | 84,6    | 76,7   |        |        |        |        |        |   | 116,3 |
| NO. OF BLADES 15    | 17500   | 64,7    | 66,3    | 67,6    | 70,4    | 75,7    | 78,4    | 81,9    | 84,6    | 86,1    | 85,4    | 74,5   |        |        |        |        |        |   | 115,6 |
| FAN TIP SPEED 16000 | 20000   | 64,5    | 66,3    | 67,3    | 70,5    | 75,7    | 77,9    | 81,5    | 84,0    | 84,7    | 85,2    | 73,8   |        |        |        |        |        |   | 115,2 |
| 474, FT/SEC         | 25000   | 64,2    | 65,9    | 66,3    | 67,9    | 73,5    | 77,4    | 80,0    | 83,2    | 85,8    | 84,6    | 73,2   |        |        |        |        |        |   | 115,4 |
|                     | 31500   | 62,3    | 65,6    | 65,1    | 66,0    | 70,6    | 74,3    | 78,4    | 81,0    | 82,6    | 82,5    | 71,3   |        |        |        |        |        |   | 113,6 |
|                     | 31500   | 62,3    | 66,5    | 64,9    | 66,5    | 70,1    | 73,6    | 76,6    | 79,9    | 81,6    | 79,3    | 69,7   |        |        |        |        |        |   | 113,0 |
|                     | 40000   | 67,6    | 67,9    | 66,2    | 66,8    | 68,7    | 71,6    | 75,5    | 77,7    | 79,4    | 77,4    | 68,1   |        |        |        |        |        |   | 112,6 |
|                     | 50000   | 66,5    | 66,7    | 65,0    | 64,6    | 69,2    | 67,1    | 69,7    | 70,4    | 72,1    | 72,0    | 65,1   |        |        |        |        |        |   | 108,8 |
|                     | 63000   | 63,0    | 63,8    | 61,9    | 60,9    | 61,4    | 61,8    | 63,0    | 62,9    | 63,2    | 63,7    | 61,6   |        |        |        |        |        |   | 105,5 |
|                     | 80000   | 67,8    | 68,1    | 65,4    | 64,7    | 64,7    | 65,1    | 65,8    | 65,0    | 63,7    | 65,3    | 64,4   |        |        |        |        |        |   | 112,5 |
| OVERALL MEASURED    |         |         |         |         |         |         |         |         |         |         |         |        |        |        |        |        |        |   |       |
| OVERALL CALCULATED  |         | 83,3    | 84,4    | 85,4    | 87,2    | 89,4    | 91,6    | 93,9    | 95,3    | 96,6    | 99,9    | 89,8   |        |        |        |        |        |   | 127,2 |
| PWDB                |         | 93,6    | 94,6    | 95,9    | 97,8    | 100,8   | 103,3   | 105,5   | 108,2   | 107,3   | 107,1   | 102,5  |        |        |        |        |        |   |       |

|                    | ANGLES FROM INLET IN DEGREES (AND RADIANS) |        |        |        |        |        |        |        |        |        |      |      |     |     |     |     |
|--------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|-----|-----|-----|-----|
|                    | 53,  | 62,    | 71,    | 81,    | 91,    | 101,   | 111,   | 122,   | 133,   | 145,   | 154, | 0,   | 0,  | 0,  | 0,  | 0,  |
| FREQ. (0.92)       | (1.00)                                     | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0,  | (0,  | (0, | (0, | (0, | (0, |
| SIDELINE 200. FT.  | 80   | 44.0   | 47.5   | 50.9   | 53.8   | 54.2   | 52.5   | 49.6   | 43.7   | 44.9   | 43.9 | 45.3 |     |     |     |     |
| ( 80.98 M)         | 100  | 46.7   | 52.5   | 56.2   | 58.3   | 59.2   | 57.8   | 54.0   | 46.0   | 47.9   | 46.6 | 46.9 |     |     |     |     |
| VEHICLE R-55       | 125  | 43.9   | 45.2   | 49.1   | 46.3   | 49.9   | 46.0   | 45.3   | 47.9   | 47.3   | 43.2 | 45.3 |     |     |     |     |
| CONFIG 75-1R       | 160  | 42.0   | 43.1   | 44.0   | 44.7   | 45.0   | 44.9   | 45.9   | 46.0   | 46.4   | 46.0 | 44.3 |     |     |     |     |
| LOC SCHENECTADY    | 200  | 43.0   | 48.1   | 44.8   | 45.2   | 46.6   | 47.6   | 47.9   | 48.3   | 47.6   | 46.7 | 45.4 |     |     |     |     |
| DATE 01-16-75      | 250  | 43.2   | 47.2   | 46.9   | 47.8   | 48.2   | 48.5   | 49.1   | 48.7   | 47.8   | 46.8 | 44.4 |     |     |     |     |
| HUN 51-0           | 315  | 44.8   | 48.1   | 47.6   | 48.5   | 49.1   | 49.0   | 48.5   | 47.8   | 47.4   | 45.9 | 42.7 |     |     |     |     |
| TAPE 25            | 400  | 42.4   | 44.9   | 45.4   | 47.1   | 47.7   | 48.3   | 48.3   | 47.6   | 47.2   | 45.7 | 42.6 |     |     |     |     |
| WAM 29.8 MG        | 500  | 42.7   | 44.7   | 45.2   | 46.9   | 47.8   | 48.1   | 48.8   | 49.0   | 48.0   | 46.4 | 42.8 |     |     |     |     |
| (00698, N/M2)      | 630  | 45.2   | 46.8   | 46.9   | 49.2   | 50.6   | 51.2   | 52.4   | 51.5   | 50.2   | 47.7 | 42.2 |     |     |     |     |
| TAMR 3R, DEG F     | 800  | 43.9   | 45.5   | 46.2   | 47.6   | 49.0   | 50.3   | 51.5   | 51.9   | 51.1   | 46.8 | 41.6 |     |     |     |     |
| (276, DEG K)       | 1000                                       | 43.4   | 46.0   | 46.5   | 49.0   | 50.8   | 52.6   | 54.6   | 54.7   | 53.9   | 51.0 | 42.3 |     |     |     |     |
| TMET 39, DEG F     | 1250                                       | 50.3   | 50.4   | 52.0   | 55.9   | 56.8   | 59.1   | 60.5   | 60.4   | 59.8   | 57.6 | 46.0 |     |     |     |     |
| (275, DEG K)       | 1400                                       | 47.7   | 49.4   | 53.9   | 52.6   | 55.2   | 57.0   | 57.9   | 58.3   | 56.7   | 54.7 | 43.4 |     |     |     |     |
| HACT 4.54 G/M3     | 2000                                       | 44.8   | 46.0   | 47.5   | 50.5   | 52.6   | 54.4   | 56.3   | 55.7   | 54.8   | 52.0 | 42.7 |     |     |     |     |
| (.00454 KG/M3)     | 2500                                       | 43.1   | 44.8   | 47.8   | 49.5   | 53.2   | 54.4   | 55.8   | 56.2   | 56.8   | 53.2 | 43.2 |     |     |     |     |
| NFA 5429, RPM      | 3150                                       | 48.3   | 42.8   | 45.0   | 47.6   | 50.7   | 53.4   | 54.3   | 54.4   | 55.2   | 51.3 | 39.0 |     |     |     |     |
| ( 580, RAD/SEC)    | 4000                                       | 39.8   | 42.3   | 44.4   | 48.2   | 52.5   | 55.7   | 56.6   | 55.7   | 55.7   | 53.3 | 40.2 |     |     |     |     |
| NFK 5542, RPM      | 5000                                       | 39.5   | 41.3   | 44.1   | 47.2   | 51.5   | 55.0   | 58.3   | 57.6   | 56.3   | 52.1 | 39.3 |     |     |     |     |
| ( 580, RAD/SEC)    | 6300                                       | 36.7   | 41.3   | 44.2   | 46.9   | 51.1   | 54.5   | 57.3   | 57.5   | 56.7   | 51.2 | 38.1 |     |     |     |     |
| NFD 8823, RPM      | 8000                                       | 36.8   | 40.0   | 42.9   | 45.8   | 50.1   | 54.2   | 56.4   | 56.4   | 55.1   | 50.0 | 34.8 |     |     |     |     |
| ( 924, RAD/SEC)    | 10000                                      | 35.2   | 38.8   | 41.6   | 45.0   | 50.1   | 53.2   | 55.6   | 55.5   | 54.1   | 47.9 | 31.5 |     |     |     |     |
| NO. OF BLADES 15   | 12000                                      | 34.8   | 34.4   | 37.5   | 40.6   | 46.1   | 48.6   | 51.1   | 52.0   | 50.4   | 44.5 | 23.5 |     |     |     |     |
| FAN TIP SPEED      | 14000                                      | 26.0   | 30.3   | 33.0   | 37.1   | 42.6   | 44.4   | 46.8   | 47.1   | 44.0   | 37.9 | 13.4 |     |     |     |     |
| 474. FT/SEC        | 20000                                      | 19.6   | 24.5   | 26.9   | 29.7   | 35.6   | 39.1   | 40.2   | 40.6   | 38.5   | 28.9 | 0.4  |     |     |     |     |
|                    | 25000                                      | 12.0   | 16.5   | 16.5   | 20.9   | 26.0   | 29.0   | 31.3   | 30.3   | 29.7   | 14.7 |      |     |     |     |     |
|                    | 31500                                      |        | 5.9    | 7.8    | 11.4   | 15.5   | 18.2   | 18.8   | 17.4   | 18.8   |      |      |     |     |     |     |
|                    | 40000                                      |        |        |        |        |        | 1.2    | 1.6    |        |        |      |      |     |     |     |     |
|                    | 50000                                      |        |        |        |        |        |        |        |        |        |      |      |     |     |     |     |
|                    | 63000                                      |        |        |        |        |        |        |        |        |        |      |      |     |     |     |     |
|                    | 80000                                      |        |        |        |        |        |        |        |        |        |      |      |     |     |     |     |
| OVERALL CALCULATED |  | 57.7   | 60.0   | 61.9   | 64.1   | 65.9   | 67.2   | 68.4   | 68.1   | 67.4   | 64.3 | 56.5 |     |     |     |     |
| PNDB               |  | 67.6   | 69.7   | 71.7   | 74.1   | 77.0   | 79.4   | 80.9   | 80.4   | 79.8   | 75.8 | 66.4 |     |     |     |     |



MODEL SOUND PRESSURE LEVELS (50, DEG. F, 70 PERCENT REL. HUM, DAY)  
 PHOC, DATE - MONTH 4 DAY 29 HR. 20.1  
 ANGLES FROM DUCT IN DEGREES (AND RADFANS)

| FREQ.              | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0    | 0   | 0   | 0   | 0   | 0   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|
|                    | (0.92) | (1.09) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0) |
| SIDFLINE 200. FT.  | 80     | 44.0   | 47.5   | 50.7   | 52.6   | 53.2   | 52.3   | 49.1   | 43.0   | 43.7   | 44.9   | 44.0 |     |     |     |     |     |
| ( 90.95 M)         | 100    | 49.0   | 52.7   | 55.9   | 57.6   | 58.2   | 57.3   | 54.0   | 46.0   | 46.6   | 47.8   | 45.7 |     |     |     |     |     |
| VEHICLE R-55       | 125    | 43.2   | 45.7   | 43.6   | 46.3   | 48.7   | 46.0   | 45.3   | 47.7   | 46.8   | 44.7   | 44.5 |     |     |     |     |     |
| CONFIG 75-1C       | 180    | 41.5   | 43.6   | 42.6   | 43.7   | 43.5   | 43.9   | 45.4   | 45.5   | 45.4   | 45.3   | 44.0 |     |     |     |     |     |
| LOC SCHEMECTADY    | 200    | 42.3   | 44.1   | 41.8   | 43.7   | 44.8   | 46.4   | 47.1   | 47.5   | 46.9   | 47.0   | 45.4 |     |     |     |     |     |
| DATE 01-16-75      | 250    | 43.2   | 45.2   | 45.9   | 46.3   | 47.2   | 47.5   | 46.3   | 47.9   | 47.3   | 45.6   | 43.4 |     |     |     |     |     |
| MUN 52-1           | 315    | 44.8   | 46.9   | 46.9   | 47.5   | 47.9   | 48.7   | 48.2   | 47.2   | 46.7   | 45.2   | 42.4 |     |     |     |     |     |
| TAPP 25            | 400    | 42.6   | 43.9   | 44.9   | 45.6   | 46.7   | 47.3   | 47.5   | 46.9   | 46.7   | 44.7   | 41.6 |     |     |     |     |     |
| MAN 29.8 MG        | 500    | 41.4   | 43.9   | 44.7   | 45.2   | 46.5   | 47.6   | 46.6   | 48.5   | 48.0   | 46.2   | 41.8 |     |     |     |     |     |
| (0369R, N/42)      | 630    | 44.5   | 45.8   | 47.5   | 48.7   | 50.1   | 51.7   | 52.4   | 51.7   | 53.0   | 47.2   | 41.4 |     |     |     |     |     |
| TAMR 38, DFG F     | 800    | 44.6   | 46.0   | 46.7   | 48.1   | 49.5   | 50.3   | 50.5   | 50.9   | 49.9   | 47.5   | 40.6 |     |     |     |     |     |
| (276, DFG K)       | 1000   | 42.6   | 44.5   | 45.5   | 47.2   | 49.1   | 51.6   | 53.3   | 53.7   | 52.7   | 50.0   | 41.3 |     |     |     |     |     |
| TWET 35, DFG F     | 1250   | 47.0   | 47.2   | 49.2   | 52.4   | 55.0   | 57.6   | 59.3   | 59.1   | 58.1   | 56.4   | 44.7 |     |     |     |     |     |
| (275, DFG K)       | 1500   | 44.2   | 45.9   | 47.9   | 50.4   | 53.0   | 55.5   | 57.4   | 55.6   | 55.0   | 54.4   | 41.9 |     |     |     |     |     |
| MACT 4.58 CM/MS    | 2000   | 40.1   | 41.8   | 43.8   | 46.0   | 48.4   | 49.9   | 50.6   | 50.9   | 49.6   | 47.3   | 39.2 |     |     |     |     |     |
| (.09454 M/MS)      | 2500   | 45.1   | 42.5   | 44.3   | 46.8   | 50.9   | 52.9   | 53.1   | 54.7   | 56.0   | 51.7   | 41.0 |     |     |     |     |     |
| NFA 5457, RPM      | 3150   | 40.3   | 42.8   | 45.8   | 48.4   | 51.9   | 54.9   | 54.8   | 54.9   | 56.7   | 54.3   | 40.5 |     |     |     |     |     |
| ( 569, RAD/SEC)    | 4000   | 41.8   | 45.6   | 46.1   | 49.7   | 53.5   | 57.2   | 58.5   | 58.9   | 58.2   | 53.8   | 41.7 |     |     |     |     |     |
| NFR 5551, RPM      | 5000   | 41.0   | 43.1   | 45.6   | 49.2   | 53.3   | 57.0   | 59.8   | 59.1   | 57.8   | 52.4   | 40.5 |     |     |     |     |     |
| ( 581, RAD/SFC)    | 6300   | 39.7   | 42.5   | 45.4   | 48.4   | 53.3   | 56.3   | 58.3   | 58.0   | 57.2   | 50.2   | 37.6 |     |     |     |     |     |
| NFD 6873, RPM      | 8000   | 36.8   | 40.8   | 43.6   | 47.6   | 51.1   | 54.7   | 56.1   | 56.9   | 55.6   | 48.5   | 33.8 |     |     |     |     |     |
| ( 924, RAD/SFC)    | 10000  | 34.7   | 38.8   | 42.1   | 46.5   | 50.9   | 54.2   | 55.1   | 55.3   | 54.4   | 44.9   | 29.5 |     |     |     |     |     |
| NO. OF BLADES 15   | 12500  | 33.6   | 37.2   | 41.6   | 45.9   | 51.1   | 53.3   | 54.1   | 52.8   | 51.4   | 41.5   | 24.0 |     |     |     |     |     |
| FAN TIP SPEED      | 15000  | 29.7   | 29.6   | 32.2   | 37.1   | 41.1   | 43.9   | 45.9   | 46.3   | 44.0   | 34.6   | 12.1 |     |     |     |     |     |
| 475, FT/SEC        | 20000  | 19.9   | 24.7   | 26.4   | 30.7   | 34.6   | 38.8   | 40.2   | 40.1   | 38.5   | 27.9   |      |     |     |     |     |     |
|                    | 25000  | 12.7   | 17.6   | 16.5   | 20.9   | 25.5   | 28.8   | 30.5   | 29.3   | 29.7   | 16.2   |      |     |     |     |     |     |
|                    | 31500  |        | 6.4    | 5.0    | 10.6   | 14.5   | 17.3   | 18.3   | 17.4   | 16.8   |        |      |     |     |     |     |     |
|                    | 40000  |        |        |        |        |        | 0.4    | 0.8    |        |        |        |      |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 61000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| OVERALL CALCULATED |        | 56.7   | 59.1   | 61.1   | 63.1   | 65.3   | 67.2   | 68.2   | 67.9   | 67.2   | 64.4   | 55.7 |     |     |     |     |     |
| PNDB               |        | 66.7   | 69.6   | 71.0   | 73.9   | 77.1   | 79.9   | 81.1   | 81.1   | 80.5   | 78.3   | 68.0 |     |     |     |     |     |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)  
PROC. DATE - MONTH 4 DAY 29 HR: 20:3

|                    | 33,<br>FREQ. (0,92) | 62,<br>(1,00) | 71,<br>(1,24) | 81,<br>(1,41) | 91,<br>(1,58) | 101,<br>(1,76) | 111,<br>(1,94) | 122,<br>(2,13) | 133,<br>(2,32) | 145,<br>(2,52) | 156,<br>(2,73) | 0,<br>(0, | 0,<br>(0, | 0,<br>(0, | 0,<br>(0, | 0,<br>(0, | PHL   |
|--------------------|---------------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------|-----------|-----------|-----------|-----------|-------|
| RADIAL 17. FT.     | 80                  | 61.9          | 61.2          | 62.2          | 63.5          | 64.5           | 64.7           | 66.7           | 68.5           | 70.5           | 74.1           | 78.4      |           |           |           |           | 103.6 |
| ( 5, M)            | 100                 | 74.2          | 75.0          | 72.3          | 72.8          | 71.5           | 70.0           | 69.0           | 68.0           | 72.3           | 79.1           | 79.9      |           |           |           |           | 107.3 |
| VEHICLE R-35       | 125                 | 70.0          | 69.9          | 72.1          | 70.6          | 72.8           | 70.8           | 71.3           | 73.8           | 74.3           | 79.7           | 79.0      |           |           |           |           | 107.3 |
| CONFIG 75-1C       | 160                 | 68.7          | 68.7          | 68.5          | 69.3          | 69.5           | 69.3           | 72.0           | 73.0           | 75.0           | 76.6           | 79.0      |           |           |           |           | 106.8 |
| LOC SCHENECTADY    | 200                 | 68.7          | 68.6          | 69.1          | 70.1          | 71.4           | 72.9           | 73.6           | 75.6           | 76.6           | 78.2           | 80.5      |           |           |           |           | 108.5 |
| DATE 01-14-75      | 250                 | 71.2          | 71.9          | 72.1          | 72.6          | 73.6           | 73.1           | 74.8           | 75.1           | 76.1           | 77.2           | 79.3      |           |           |           |           | 108.7 |
| HUM 52-2           | 315                 | 73.0          | 73.1          | 72.8          | 73.4          | 73.9           | 74.1           | 74.3           | 74.4           | 75.9           | 78.7           | 78.3      |           |           |           |           | 108.7 |
| TAPF 25            | 400                 | 71.4          | 70.7          | 70.8          | 71.8          | 72.3           | 73.0           | 73.7           | 74.3           | 75.0           | 76.6           | 77.7      |           |           |           |           | 107.8 |
| WAR 29.8 MS        | 500                 | 68.8          | 69.6          | 70.2          | 71.4          | 72.7           | 73.4           | 74.6           | 75.7           | 76.4           | 78.8           | 77.3      |           |           |           |           | 108.1 |
| (00698, N/M2)      | 630                 | 72.2          | 71.8          | 73.3          | 74.8          | 75.8           | 76.8           | 78.5           | 78.4           | 78.6           | 78.4           | 76.8      |           |           |           |           | 110.7 |
| TAMP 30, DFG F     | 800                 | 72.0          | 72.1          | 72.9          | 74.1          | 74.9           | 75.9           | 77.1           | 77.7           | 78.2           | 78.8           | 76.0      |           |           |           |           | 110.0 |
| (276, LFG K)       | 1000                | 70.0          | 71.0          | 71.6          | 73.3          | 74.8           | 77.3           | 79.3           | 80.6           | 81.1           | 79.9           | 76.2      |           |           |           |           | 111.6 |
| TNET 39, DFG F     | 1250                | 76.3          | 70.6          | 72.4          | 74.7          | 76.9           | 79.1           | 80.8           | 81.7           | 82.7           | 82.0           | 76.8      |           |           |           |           | 113.1 |
| (275, DFG K)       | 1600                | 78.2          | 76.7          | 77.5          | 80.3          | 84.7           | 84.7           | 86.7           | 86.8           | 87.1           | 87.7           | 83.1      |           |           |           |           | 118.6 |
| MACT 4.54 GV/M3    | 2000                | 70.0          | 69.6          | 71.3          | 73.5          | 75.8           | 77.0           | 79.0           | 79.4           | 80.7           | 79.8           | 75.7      |           |           |           |           | 111.3 |
| (.03424 KG/M3)     | 2500                | 69.5          | 68.3          | 69.5          | 71.6          | 74.1           | 75.7           | 76.7           | 79.4           | 81.4           | 79.8           | 73.9      |           |           |           |           | 110.5 |
| NFA 6204, DPH      | 3150                | 74.5          | 72.8          | 74.6          | 77.4          | 81.1           | 84.2           | 86.9           | 89.9           | 89.5           | 89.6           | 79.7      |           |           |           |           | 110.1 |
| ( 650, RAD/SEC)    | 4000                | 72.6          | 71.6          | 73.3          | 77.2          | 80.3           | 83.5           | 85.4           | 86.2           | 87.5           | 89.1           | 78.7      |           |           |           |           | 117.2 |
| NFA 6334, RPM      | 5000                | 76.3          | 73.1          | 75.6          | 79.9          | 81.8           | 86.0           | 88.2           | 88.9           | 89.8           | 89.4           | 80.2      |           |           |           |           | 119.6 |
| ( 663, RAD/SEC)    | 6300                | 71.3          | 72.7          | 75.1          | 78.6          | 82.8           | 85.2           | 87.7           | 88.9           | 90.1           | 89.0           | 79.3      |           |           |           |           | 119.5 |
| NFD 8623, RPM      | 8300                | 78.2          | 72.4          | 74.7          | 78.8          | 82.5           | 84.7           | 87.4           | 89.3           | 89.0           | 84.7           | 78.8      |           |           |           |           | 119.2 |
| ( 924, RAD/SEC)    | 10000               | 69.1          | 71.4          | 74.1          | 78.7          | 81.9           | 84.6           | 87.1           | 88.5           | 88.7           | 84.3           | 77.7      |           |           |           |           | 119.9 |
| NO. OF BLADES 15   | 12000               | 74.4          | 76.6          | 80.6          | 85.9          | 90.7           | 93.7           | 90.7           | 91.1           | 90.1           | 87.1           | 80.5      |           |           |           |           | 123.7 |
| FAN TIP SPEED      | 14000               | 68.0          | 70.1          | 73.1          | 78.5          | 81.2           | 84.4           | 86.7           | 88.7           | 88.7           | 85.9           | 78.8      |           |           |           |           | 119.5 |
| 542, FT/SEC        | 20000               | 67.0          | 69.2          | 71.8          | 75.7          | 78.8           | 82.2           | 85.2           | 87.7           | 90.3           | 87.6           | 77.0      |           |           |           |           | 119.8 |
|                    | 25000               | 66.3          | 68.6          | 68.9          | 71.8          | 76.4           | 79.8           | 83.1           | 85.7           | 87.3           | 89.8           | 75.3      |           |           |           |           | 118.0 |
|                    | 31500               | 68.3          | 68.0          | 68.4          | 71.5          | 74.6           | 78.1           | 81.6           | 84.4           | 85.6           | 82.1           | 72.9      |           |           |           |           | 117.1 |
|                    | 40000               | 67.8          | 68.7          | 67.9          | 70.0          | 72.7           | 76.1           | 80.0           | 82.0           | 83.4           | 79.7           | 78.4      |           |           |           |           | 116.4 |
|                    | 50000               | 66.5          | 66.9          | 65.3          | 65.6          | 67.7           | 70.1           | 73.7           | 75.2           | 75.8           | 73.8           | 66.4      |           |           |           |           | 111.8 |
|                    | 63000               | 63.5          | 64.3          | 61.9          | 61.4          | 61.9           | 62.6           | 64.8           | 65.9           | 65.7           | 64.9           | 62.1      |           |           |           |           | 106.8 |
|                    | 80000               | 67.8          | 68.1          | 65.1          | 64.7          | 64.7           | 65.1           | 65.8           | 62.0           | 63.7           | 65.3           | 64.4      |           |           |           |           | 112.9 |
| OVERALL MEASURED   |                     |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           |       |
| OVERALL CALCULATED |                     | 86.1          | 86.4          | 87.9          | 91.3          | 94.8           | 97.4           | 98.2           | 99.4           | 100.2          | 97.4           | 92.6      |           |           |           |           | 131.1 |
| PNOB               |                     | 98.4          | 97.5          | 98.8          | 102.1         | 104.6          | 107.2          | 109.2          | 110.1          | 111.4          | 106.6          | 104.2     |           |           |           |           |       |

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                                 | 73    | 62    | 71    | 61    | 91    | 101   | 111   | 122   | 133   | 143   | 154   | 0     | 0     | 0     | 0     | 0     | 0      |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| FREQ:                           | (0.2) | (1.0) | (1.2) | (1.4) | (1.7) | (2.0) | (2.4) | (2.8) | (3.2) | (3.7) | (4.3) | (5.0) | (5.8) | (6.7) | (7.7) | (8.9) | (10.3) |
| 50                              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
| 63                              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
| STOPLINE 200. FT,<br>( 90.96 M) | 80    | 30.3  | 38.3  | 40.2  | 41.8  | 43.0  | 43.0  | 44.0  | 45.0  | 46.2  | 47.6  | 48.9  |       |       |       |       |        |
| VEHICLE R-55                    | 100   | 30.5  | 32.2  | 30.2  | 31.1  | 49.9  | 48.3  | 46.8  | 45.7  | 47.9  | 46.6  | 49.4  |       |       |       |       |        |
| CONFIG 75-1C                    | 125   | 46.2  | 47.8  | 49.9  | 46.6  | 51.2  | 49.0  | 49.0  | 50.7  | 49.8  | 49.0  | 48.8  |       |       |       |       |        |
| LOC SCHNECTADY                  | 160   | 44.8  | 45.0  | 46.3  | 47.4  | 47.8  | 47.4  | 49.4  | 49.8  | 50.4  | 49.8  | 48.3  |       |       |       |       |        |
| DATE 01-16-75                   | 200   | 44.8  | 45.8  | 46.8  | 48.2  | 44.6  | 50.9  | 51.1  | 52.3  | 51.9  | 51.2  | 49.9  |       |       |       |       |        |
| NUM 52-2                        | 250   | 47.2  | 48.5  | 49.7  | 50.6  | 51.7  | 51.0  | 52.3  | 51.7  | 51.3  | 50.1  | 48.4  |       |       |       |       |        |
| TAPP 25                         | 319   | 48.8  | 49.9  | 50.4  | 51.3  | 51.9  | 52.0  | 51.7  | 50.6  | 50.9  | 49.4  | 47.2  |       |       |       |       |        |
| BAR 29.0 MG<br>(00A98) N/M2     | 400   | 47.1  | 47.4  | 48.2  | 49.6  | 50.2  | 50.8  | 51.0  | 50.6  | 49.9  | 49.2  | 46.4  |       |       |       |       |        |
| TAMP 3N, DFG F<br>(276) DFG K   | 500   | 44.4  | 46.2  | 47.5  | 49.2  | 50.5  | 51.1  | 51.8  | 52.0  | 51.2  | 49.2  | 45.8  |       |       |       |       |        |
| TMET 35, DFG F<br>(279) DFG K   | 630   | 47.7  | 48.3  | 50.5  | 52.5  | 53.6  | 54.4  | 55.6  | 54.5  | 53.2  | 50.7  | 44.9  |       |       |       |       |        |
| NACT 4.54 G/M3<br>(.00454) G/M3 | 800   | 47.3  | 48.5  | 50.8  | 51.8  | 52.5  | 53.3  | 54.0  | 53.7  | 52.6  | 50.8  | 43.9  |       |       |       |       |        |
| NFA 8200, RPM<br>( 850) RAD/SEC | 1000  | 45.1  | 47.3  | 48.9  | 50.7  | 52.3  | 54.0  | 56.1  | 56.5  | 55.4  | 51.7  | 43.8  |       |       |       |       |        |
| NFK 6330, RPM<br>( 663) RAD/SEC | 1250  | 45.3  | 46.7  | 49.2  | 51.9  | 54.3  | 56.3  | 57.5  | 57.4  | 56.8  | 53.6  | 44.8  |       |       |       |       |        |
| NFD 8823, RPM<br>( 924) RAD/SEC | 1600  | 50.9  | 52.6  | 54.1  | 57.4  | 62.0  | 61.7  | 63.2  | 64.3  | 61.8  | 58.9  | 46.9  |       |       |       |       |        |
| NO. OF BLADES 15                | 2000  | 44.8  | 45.3  | 47.8  | 50.5  | 52.9  | 53.9  | 55.3  | 54.7  | 54.3  | 50.8  | 42.8  |       |       |       |       |        |
| FAN TIP SPEED 342. FT/SEC       | 2500  | 43.8  | 43.8  | 45.8  | 48.3  | 50.9  | 52.4  | 52.8  | 54.4  | 54.8  | 49.7  | 39.7  |       |       |       |       |        |
| 25000                           | 43.3  | 46.0  | 50.5  | 53.9  | 57.7  | 60.7  | 61.8  | 60.7  | 62.5  | 62.8  | 53.8  | 44.8  |       |       |       |       |        |
| 31500                           | 44.5  | 47.8  | 50.9  | 55.7  | 57.8  | 61.7  | 63.3  | 62.9  | 61.8  | 59.9  | 53.5  | 42.7  |       |       |       |       |        |
| 40000                           | 43.5  | 46.5  | 49.7  | 53.7  | 59.1  | 60.3  | 62.0  | 62.0  | 61.2  | 52.7  | 40.9  |       |       |       |       |       |        |
| 50000                           | 41.0  | 44.4  | 48.1  | 52.6  | 56.6  | 58.7  | 60.6  | 61.1  | 58.6  | 50.5  | 37.6  |       |       |       |       |       |        |
| 63270                           | 34.0  | 42.0  | 45.9  | 51.2  | 54.6  | 57.8  | 59.6  | 58.5  | 56.1  | 47.4  | 32.5  |       |       |       |       |       |        |
| 80000                           | 40.5  | 44.9  | 50.1  | 56.1  | 61.1  | 63.8  | 69.9  | 58.5  | 54.4  | 46.3  | 29.9  |       |       |       |       |       |        |
| OVERALL CALCULATED              | 14000 | 29.5  | 34.1  | 38.7  | 45.1  | 48.1  | 50.9  | 52.8  | 51.8  | 48.8  | 38.6  | 16.4  |       |       |       |       |        |
| PN00                            | 20000 | 22.4  | 27.7  | 32.4  | 37.4  | 40.9  | 43.8  | 45.4  | 43.1  | 43.8  | 31.9  | 4.2   |       |       |       |       |        |
|                                 | 25000 | 15.0  | 18.8  | 22.3  | 26.7  | 31.7  | 34.5  | 36.6  | 35.1  | 30.5  | 17.9  |       |       |       |       |       |        |
|                                 | 31500 | 9.2   | 7.4   | 11.3  | 16.4  | 20.8  | 22.7  | 23.8  | 21.9  | 14.8  |       |       |       |       |       |       |        |
|                                 | 40000 |       |       |       |       | 3.4   | 5.7   | 6.3   | 1.8   |       |       |       |       |       |       |       |        |
|                                 | 50000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
|                                 | 63270 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
|                                 | 80000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
|                                 | PN00  | 60.1  | 61.2  | 62.9  | 65.9  | 69.1  | 70.9  | 71.7  | 71.3  | 70.4  | 65.6  | 59.4  |       |       |       |       |        |
|                                 |       | 71.9  | 72.9  | 74.7  | 78.2  | 81.0  | 83.2  | 84.6  | 84.3  | 84.1  | 78.5  | 69.2  |       |       |       |       |        |





|  | 55    | 67   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 154  | 0    | 0 | 0 | 0 | 0 | 0 |
|--|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|
| FREQ. (0.72)(1.08)(1.29)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(0.0)(0.0)(0.0)(0.0)(0.0)(0.0) |       |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| SIDELINE 200. FT.  | 80    | 40.5 | 40.8 | 42.4 | 44.3 | 45.2 | 46.0 | 48.3 | 48.7 | 49.7 | 51.4 | 52.3 |   |   |   |   |   |
| ( 90.96 M)   | 180   | 43.7 | 50.5 | 51.7 | 50.8 | 50.2 | 49.5 | 48.8 | 48.5 | 50.0 | 52.6 | 53.4 |   |   |   |   |   |
| VEHICLE R-55   | 125   | 50.4 | 57.7 | 56.4 | 56.3 | 55.7 | 53.0 | 51.8 | 51.2 | 54.1 | 58.2 | 53.0 |   |   |   |   |   |
| CONFIG 75-1C   | 140   | 47.5 | 48.6 | 49.5 | 51.2 | 50.8 | 50.4 | 52.0 | 53.0 | 53.7 | 53.5 | 52.0 |   |   |   |   |   |
| LOC SCHNECTADY   | 200   | 46.5 | 47.0 | 48.8 | 50.2 | 52.3 | 53.9 | 54.6 | 55.0 | 54.9 | 54.7 | 53.4 |   |   |   |   |   |
| DATE 11-10-73  | 250   | 47.9 | 51.5 | 52.9 | 53.8 | 54.5 | 54.8 | 50.1 | 55.4 | 55.5 | 54.1 | 52.4 |   |   |   |   |   |
| RUN 52-3   | 315   | 50.0 | 52.0 | 53.4 | 54.0 | 54.4 | 55.0 | 55.0 | 54.3 | 54.2 | 50.4 | 51.4 |   |   |   |   |   |
| TAPE 25  | 400   | 50.4 | 50.2 | 51.2 | 52.0 | 53.5 | 53.4 | 54.0 | 53.9 | 53.7 | 52.7 | 50.4 |   |   |   |   |   |
| BAR 20.3 MC  | 500   | 51.2 | 49.0 | 50.2 | 51.9 | 53.5 | 54.1 | 54.0 | 55.0 | 54.7 | 54.2 | 49.5 |   |   |   |   |   |
| (00000; N/42)  | 630   | 53.2 | 51.0 | 53.3 | 55.0 | 55.8 | 57.2 | 57.9 | 57.8 | 56.2 | 50.7 | 48.4 |   |   |   |   |   |
| TAMP 30; DFC F   | 800   | 50.0 | 51.5 | 53.0 | 54.1 | 55.3 | 56.1 | 56.8 | 56.2 | 55.1 | 54.5 | 47.9 |   |   |   |   |   |
| (270; LFS K)   | 1000  | 52.1 | 50.0 | 51.0 | 53.2 | 54.8 | 56.4 | 58.3 | 58.0 | 57.4 | 56.2 | 47.0 |   |   |   |   |   |
| TWEY 35; DFC F   | 1250  | 50.0 | 48.7 | 51.7 | 53.9 | 56.3 | 56.1 | 59.3 | 59.4 | 57.8 | 56.4 | 48.2 |   |   |   |   |   |
| (275; LFS K)   | 1600  | 51.7 | 53.4 | 55.4 | 58.4 | 61.2 | 62.5 | 63.7 | 63.0 | 62.5 | 58.4 | 48.6 |   |   |   |   |   |
| WAGY 4.54 (47/43)  | 2000  | 49.1 | 51.5 | 53.5 | 56.3 | 58.9 | 59.9 | 61.1 | 61.7 | 60.6 | 55.8 | 46.5 |   |   |   |   |   |
| (.03450 KC/43)   | 2500  | 44.8 | 47.0 | 47.3 | 52.6 | 54.2 | 55.7 | 55.8 | 57.2 | 56.0 | 50.7 | 43.2 |   |   |   |   |   |
| RFA 6000; RPM  | 3150  | 40.5 | 49.0 | 52.5 | 56.4 | 59.9 | 63.4 | 65.3 | 62.4 | 64.0 | 50.3 | 46.0 |   |   |   |   |   |
| ( 731; RAD/SEC)  | 4000  | 40.0 | 49.6 | 52.1 | 57.2 | 60.5 | 63.5 | 64.3 | 62.9 | 63.2 | 50.3 | 45.7 |   |   |   |   |   |
| RFR 7175; RPM  | 5000  | 47.0 | 49.5 | 53.1 | 57.7 | 61.0 | 64.2 | 67.0 | 68.1 | 64.8 | 50.4 | 45.5 |   |   |   |   |   |
| ( 740; RAD/SEC)  | 6300  | 42.7 | 49.5 | 52.7 | 56.6 | 60.1 | 63.5 | 65.5 | 65.0 | 63.7 | 54.7 | 42.9 |   |   |   |   |   |
| RFD 8825; RPM  | 8000  | 44.0 | 48.3 | 52.1 | 56.0 | 59.6 | 62.7 | 64.6 | 64.4 | 62.3 | 54.0 | 40.1 |   |   |   |   |   |
| ( 924; RAD/SEC)  | 10000 | 40.5 | 44.3 | 49.1 | 53.2 | 56.6 | 60.0 | 61.6 | 61.5 | 59.9 | 49.7 | 35.2 |   |   |   |   |   |
| NO. OF BLADES 15   | 12500 | 39.0 | 43.9 | 49.8 | 55.4 | 59.6 | 60.0 | 59.6 | 59.8 | 50.9 | 40.8 | 30.0 |   |   |   |   |   |
| FAN TIP SPEED  | 14000 | 32.0 | 36.0 | 42.5 | 48.6 | 51.3 | 52.9 | 54.5 | 55.3 | 50.7 | 40.1 | 19.1 |   |   |   |   |   |
| 600. FT/SEC  | 20000 | 23.1 | 30.7 | 36.0 | 41.2 | 44.6 | 47.0 | 49.7 | 48.9 | 45.7 | 33.6 | 6.9  |   |   |   |   |   |
|  | 25000 | 15.5 | 21.0 | 26.5 | 31.9 | 36.2 | 38.0 | 40.5 | 39.8 | 34.7 | 21.9 |      |   |   |   |   |   |
|  | 31500 | 2.0  | 9.9  | 14.8 | 20.9 | 24.5 | 27.2 | 28.0 | 28.0 | 19.1 | 3.4  |      |   |   |   |   |   |
|  | 40000 |      |      |      | 3.6  | 7.4  | 9.9  | 11.3 | 9.3  |      |      |      |   |   |   |   |   |
|  | 50000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
|  | 63000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
|  | 80000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| OVERALL CALCULATED   |       | 62.5 | 64.3 | 66.1 | 68.5 | 71.0 | 73.1 | 74.6 | 74.0 | 73.2 | 67.7 | 63.1 |   |   |   |   |   |
| PHOB   |       | 72.8 | 74.9 | 77.4 | 81.0 | 83.9 | 86.1 | 88.2 | 87.3 | 86.6 | 80.2 | 71.9 |   |   |   |   |   |



MODEL SOUND PRESSURE LEVELS (50, DEG, F, 70 PERCENT REL. HUM, 20.1

PROC. DATE - NOV 14 4 DAY 29 HR. 20.1

ANGLES FROM IMPT IN DEGREES (AND RADIAN)

|   | 33    | 47   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 154  | 0    | 0 | 0 | 0 | 0 |
|---|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|
| FREQ. (0, 92)(1, 94)(1, 74)(1, 41)(1, 30)(1, 70)(1, 74)(2, 13)(2, 12)(2, 52)(2, 73)(9, 100, 100, 100, 100, 100, 100, 100) |       |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
| SIDELINE 200. FT.   | 60    | 41.0 | 42.5 | 44.7 | 46.1 | 47.0 | 48.3 | 51.1 | 51.7 | 52.7 | 54.0 | 55.3 |   |   |   |   |
| ( 90.00 M)  | 100   | 43.7 | 45.5 | 46.2 | 48.0 | 51.4 | 52.0 | 51.4 | 51.8 | 53.1 | 55.3 | 56.0 |   |   |   |   |
| VEHICLE R-55  | 125   | 51.4 | 54.2 | 54.4 | 54.3 | 55.2 | 55.3 | 55.0 | 56.2 | 56.1 | 56.2 | 56.5 |   |   |   |   |
| CONFIG 75-1C  | 140   | 49.8 | 51.8 | 52.3 | 53.4 | 53.5 | 53.9 | 55.9 | 56.3 | 56.7 | 56.8 | 56.3 |   |   |   |   |
| LOC SCHENECTADY   | 200   | 48.8 | 49.8 | 51.3 | 52.4 | 54.8 | 56.8 | 56.9 | 57.3 | 57.6 | 58.8 | 56.9 |   |   |   |   |
| DATE 01-16-75   | 230   | 52.9 | 54.7 | 56.7 | 57.3 | 58.2 | 59.3 | 60.3 | 60.4 | 60.8 | 59.1 | 56.9 |   |   |   |   |
| HUM 52-0  | 315   | 53.0 | 53.4 | 56.1 | 57.2 | 57.9 | 58.8 | 58.5 | 57.8 | 57.2 | 56.2 | 55.2 |   |   |   |   |
| TAPP 25   | 400   | 52.4 | 53.4 | 54.4 | 55.6 | 56.2 | 56.8 | 57.8 | 57.1 | 56.4 | 55.9 | 53.9 |   |   |   |   |
| MAN 20.0 MC   | 500   | 56.2 | 51.7 | 52.7 | 55.2 | 55.5 | 57.1 | 58.1 | 57.7 | 57.2 | 56.2 | 53.3 |   |   |   |   |
| (R0699, R/42)   | 630   | 52.8 | 53.5 | 55.3 | 57.8 | 58.3 | 59.7 | 60.4 | 59.7 | 58.2 | 55.9 | 51.9 |   |   |   |   |
| TANK 39, DCS F  | 800   | 54.3 | 53.7 | 55.8 | 56.4 | 57.5 | 58.3 | 59.3 | 59.2 | 57.6 | 55.9 | 50.8 |   |   |   |   |
| (277, DCS K)  | 1090  | 58.4 | 52.8 | 53.8 | 55.7 | 57.1 | 58.7 | 60.3 | 60.2 | 59.4 | 55.2 | 50.8 |   |   |   |   |
| TWET 39, DCS F  | 1250  | 58.1 | 51.2 | 54.8 | 54.2 | 58.5 | 60.1 | 61.5 | 60.8 | 59.8 | 55.4 | 49.5 |   |   |   |   |
| (275, DCS K)  | 1600  | 58.7 | 52.0 | 54.9 | 57.1 | 59.5 | 61.5 | 61.2 | 62.3 | 61.8 | 54.9 | 48.1 |   |   |   |   |
| MACT 4.20 G/M3  | 7000  | 54.6 | 56.5 | 58.8 | 60.8 | 62.6 | 64.9 | 67.6 | 69.2 | 68.8 | 59.5 | 51.5 |   |   |   |   |
| (.00423 MC/M3)  | 7500  | 48.3 | 51.8 | 53.3 | 56.3 | 58.9 | 59.7 | 60.1 | 61.2 | 61.8 | 55.4 | 48.5 |   |   |   |   |
| MFA 7752, RPM   | 3150  | 49.5 | 51.8 | 54.8 | 57.6 | 61.5 | 63.2 | 62.8 | 63.2 | 64.5 | 58.8 | 46.6 |   |   |   |   |
| ( F12, RAD/SEC)   | 4000  | 50.5 | 53.5 | 57.4 | 61.7 | 66.5 | 67.2 | 63.6 | 68.2 | 66.9 | 59.6 | 49.9 |   |   |   |   |
| MFR 7900, RPM   | 5000  | 47.2 | 51.1 | 56.1 | 59.8 | 62.8 | 66.5 | 68.6 | 67.9 | 66.6 | 57.6 | 46.8 |   |   |   |   |
| ( 824, RAD/SEC)   | 6300  | 46.5 | 52.3 | 58.9 | 58.7 | 64.1 | 67.8 | 70.8 | 68.8 | 67.7 | 57.5 | 45.8 |   |   |   |   |
| MFB 8623, RPM   | 8000  | 47.1 | 51.4 | 55.7 | 60.4 | 62.9 | 65.7 | 67.9 | 67.1 | 65.4 | 55.8 | 42.3 |   |   |   |   |
| ( 924, RAD/SEC)   | 10600 | 43.8 | 48.8 | 51.7 | 56.2 | 59.1 | 62.8 | 65.2 | 67.8 | 62.2 | 51.7 | 37.5 |   |   |   |   |
| NO. OF BLADES 15  | 17500 | 41.1 | 45.8 | 50.4 | 54.9 | 58.9 | 61.4 | 62.4 | 62.8 | 60.8 | 48.6 | 31.8 |   |   |   |   |
| FAN TIP SPEED 16000   | 20000 | 34.6 | 39.9 | 46.3 | 50.4 | 53.4 | 55.5 | 57.8 | 58.4 | 53.6 | 41.7 | 21.8 |   |   |   |   |
| 677, FT/SEC   | 25000 | 28.4 | 35.0 | 41.2 | 45.5 | 48.9 | 51.4 | 53.5 | 53.2 | 48.8 | 35.7 | 18.0 |   |   |   |   |
|   | 31500 | 19.8 | 25.8 | 31.8 | 36.2 | 40.3 | 43.8 | 45.5 | 44.1 | 39.3 | 29.7 |      |   |   |   |   |
|   | 41000 | 14.7 | 18.9 | 19.8 | 24.9 | 28.3 | 31.2 | 33.1 | 30.9 | 22.8 | 9.8  |      |   |   |   |   |
|   | 59000 |      |      | 1.2  | 7.8  | 11.3 | 13.9 | 15.8 | 16.2 |      |      |      |   |   |   |   |
| OVERALL CALCULATED  |       | 64.8 | 66.1 | 68.4 | 71.8 | 73.4 | 75.7 | 77.5 | 77.1 | 76.8 | 78.8 | 66.5 |   |   |   |   |
| PN30  |       | 75.7 | 77.9 | 81.1 | 84.4 | 86.9 | 89.2 | 90.7 | 90.9 | 89.4 | 82.8 | 75.2 |   |   |   |   |

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MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)  
 PHOC. DATE - MONTH 4 DAY 29 HR: 20.1  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.              | PHOC. DATE - MONTH 4 DAY 29 HR: 20.1 |        |        |        |        |        |        |        |        |        |        |      |      |     |     |
|--------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|-----|-----|
|                    | 59                                   | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 154    | 0    | 0    | 0   | 0   |
|                    | (0.92)                               | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0)  | (0) | (0) |
| SIDELINE 200. FT.  | 50                                   | 40.8   | 43.0   | 44.9   | 46.1   | 47.2   | 48.8   | 50.0   | 52.0   | 52.9   | 54.6   | 55.5 |      |     |     |
| ( 50.00 M)         | 100                                  | 44.0   | 48.2   | 50.2   | 50.6   | 51.4   | 52.0   | 51.3   | 51.2   | 53.6   | 55.8   | 56.9 |      |     |     |
| VEHICLE R=55       | 125                                  | 51.4   | 54.5   | 54.9   | 54.0   | 54.9   | 55.3   | 56.3   | 56.7   | 58.1   | 58.0   | 56.5 |      |     |     |
| CONFIG 75-1C       | 100                                  | 49.0   | 51.0   | 52.5   | 53.4   | 53.8   | 53.6   | 55.9   | 56.0   | 56.9   | 56.8   | 56.0 |      |     |     |
| LOC SCHENECTADY    | 200                                  | 49.0   | 49.0   | 51.3   | 52.9   | 53.3   | 56.6   | 56.6   | 57.5   | 57.6   | 57.7   | 57.1 |      |     |     |
| DATE 01-16-73      | 250                                  | 52.9   | 54.5   | 56.4   | 57.6   | 58.2   | 59.5   | 60.1   | 60.2   | 60.3   | 59.1   | 56.9 |      |     |     |
| HUN 52-2           | 315                                  | 53.8   | 55.4   | 56.1   | 57.5   | 57.4   | 58.0   | 58.2   | 57.6   | 57.2   | 56.4   | 54.9 |      |     |     |
| TAMP 25            | 400                                  | 54.1   | 54.2   | 54.4   | 55.6   | 56.2   | 56.8   | 57.3   | 57.4   | 55.7   | 55.0   | 53.9 |      |     |     |
| BAR 79.0 MG        | 500                                  | 50.4   | 53.5   | 53.5   | 54.4   | 56.0   | 56.6   | 56.1   | 57.5   | 57.2   | 56.4   | 53.0 |      |     |     |
| (00690, N/M2)      | 630                                  | 52.0   | 53.3   | 55.5   | 57.2   | 58.3   | 59.4   | 60.4   | 59.5   | 58.2   | 56.2   | 56.2 | 51.9 |     |     |
| TAMP 39, DFG F     | 800                                  | 52.6   | 55.5   | 54.7   | 57.1   | 57.5   | 58.6   | 59.3   | 59.2   | 57.9   | 55.0   | 50.6 |      |     |     |
| (777, DEG K)       | 1000                                 | 50.6   | 53.0   | 53.0   | 56.0   | 57.3   | 58.9   | 60.6   | 60.5   | 59.4   | 55.7   | 50.3 |      |     |     |
| THET 35, DEG F     | 1250                                 | 50.6   | 51.4   | 54.2   | 56.2   | 58.8   | 60.5   | 61.8   | 61.1   | 60.1   | 55.6   | 49.0 |      |     |     |
| (275, DFG K)       | 1600                                 | 51.0   | 52.6   | 54.6   | 57.4   | 59.7   | 61.8   | 62.4   | 62.8   | 61.0   | 55.4   | 47.9 |      |     |     |
| MACT 4.25 GM/M3    | 2000                                 | 54.1   | 56.5   | 58.5   | 61.1   | 62.6   | 65.4   | 67.3   | 68.2   | 66.6   | 59.8   | 51.7 |      |     |     |
| (.00425 KG/M3)     | 2500                                 | 48.6   | 51.0   | 53.1   | 56.1   | 58.9   | 59.7   | 60.1   | 61.2   | 61.6   | 55.4   | 46.2 |      |     |     |
| NFA 7742, RPM      | 3150                                 | 43.3   | 51.5   | 53.8   | 57.9   | 61.5   | 62.9   | 63.0   | 63.4   | 64.7   | 55.8   | 46.5 |      |     |     |
| ( 811, RAD/SEC)    | 4000                                 | 50.8   | 54.1   | 56.4   | 61.5   | 65.0   | 67.5   | 68.1   | 68.4   | 66.9   | 57.6   | 49.2 |      |     |     |
| NFK 7892, RPM      | 5000                                 | 49.2   | 51.0   | 55.1   | 58.8   | 63.1   | 66.5   | 69.3   | 68.2   | 66.1   | 57.6   | 47.3 |      |     |     |
| ( 827, RAD/SEC)    | 6300                                 | 49.3   | 52.5   | 56.4   | 59.7   | 63.3   | 67.5   | 70.0   | 68.8   | 68.2   | 57.2   | 45.4 |      |     |     |
| NFD 8823, RPM      | 8090                                 | 47.1   | 51.1   | 55.9   | 60.6   | 62.9   | 65.9   | 67.9   | 67.6   | 64.9   | 55.0   | 42.6 |      |     |     |
| ( 924, RAD/SEC)    | 10000                                | 43.0   | 47.3   | 51.9   | 55.7   | 58.6   | 63.0   | 65.2   | 65.0   | 61.9   | 51.5   | 37.3 |      |     |     |
| NO. OF PLACES 15   | 12500                                | 41.3   | 45.3   | 51.1   | 54.4   | 58.7   | 61.6   | 62.7   | 63.6   | 59.7   | 48.6   | 31.8 |      |     |     |
| FAN TIP SPEED      | 15000                                | 35.3   | 40.1   | 45.5   | 50.1   | 53.6   | 55.7   | 58.1   | 58.6   | 53.8   | 42.8   | 21.7 |      |     |     |
| 676, FT/SEC        | 20000                                | 28.4   | 34.8   | 40.9   | 45.0   | 48.4   | 51.9   | 54.0   | 53.7   | 48.8   | 39.7   | 9.7  |      |     |     |
|                    | 25000                                | 19.8   | 25.6   | 31.6   | 36.2   | 40.5   | 43.0   | 45.8   | 44.8   | 39.3   | 24.7   |      |      |     |     |
|                    | 31500                                | 7.2    | 12.9   | 19.3   | 25.1   | 29.3   | 31.7   | 32.8   | 30.9   | 23.3   | 4.4    |      |      |     |     |
|                    | 40000                                |        |        | 1.5    | 7.6    | 11.6   | 13.9   | 15.2   | 10.2   |        |        |      |      |     |     |
|                    | 50000                                |        |        |        |        |        |        |        |        |        |        |      |      |     |     |
|                    | 63000                                |        |        |        |        |        |        |        |        |        |        |      |      |     |     |
|                    | 80000                                |        |        |        |        |        |        |        |        |        |        |      |      |     |     |
| OVERALL CALCULATED |                                      | 64.0   | 66.4   | 68.2   | 70.9   | 73.4   | 75.9   | 77.5   | 77.3   | 75.9   | 70.1   | 66.4 |      |     |     |
| PND8               |                                      | 73.6   | 78.6   | 80.5   | 84.2   | 87.1   | 89.4   | 90.6   | 90.6   | 89.4   | 82.8   | 74.9 |      |     |     |

|                    | 33,<br>FREQ. (0,92) | 62,<br>(1,08) | 71,<br>(1,24) | 81,<br>(1,41) | 91,<br>(1,58) | 101,<br>(1,76) | 111,<br>(1,94) | 121,<br>(2,13) | 133,<br>(2,32) | 145,<br>(2,52) | 154,<br>(2,73) | 0,<br>(0) | 0,<br>(0) | 0,<br>(0) | 0,<br>(0) | 0,<br>(0) | 0,<br>(0) | 0,<br>(0) | PWL   |
|--------------------|---------------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
|                    | 50                  |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           |           |           |       |
|                    | 63                  |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           |           |           |       |
| RADIAL 17, FT.     | 80                  | 70.1          | 69.7          | 72.2          | 73.7          | 74.5           | 73.5           | 70.7           | 66.5           | 60.5           | 71.3           | 73.9      |           |           |           |           |           |           | 106.1 |
| ( 5, H)            | 100                 | 73.4          | 74.7          | 77.5          | 79.0          | 79.5           | 78.8           | 75.3           | 68.5           | 71.5           | 74.6           | 76.7      |           |           |           |           |           |           | 110.7 |
| VEHICLE R-59       | 125                 | 71.0          | 67.0          | 71.1          | 67.0          | 70.6           | 67.6           | 66.8           | 70.6           | 71.1           | 71.2           | 74.3      |           |           |           |           |           |           | 104.2 |
| CONFIG 75-1C       | 160                 | 71.4          | 66.2          | 65.0          | 65.3          | 65.8           | 65.5           | 67.5           | 68.8           | 70.5           | 72.4           | 74.5      |           |           |           |           |           |           | 103.1 |
| LOC SCHEMECTADY    | 200                 | 69.0          | 66.6          | 64.6          | 65.1          | 66.6           | 68.4           | 69.6           | 70.6           | 71.9           | 74.9           | 75.8      |           |           |           |           |           |           | 104.1 |
| DATE 81-16-75      | 250                 | 69.2          | 67.4          | 68.3          | 67.8          | 68.8           | 69.6           | 71.1           | 71.6           | 72.1           | 72.9           | 74.3      |           |           |           |           |           |           | 104.7 |
| NUM 52-0           | 315                 | 75.7          | 69.6          | 69.8          | 69.9          | 70.1           | 70.6           | 70.6           | 70.9           | 71.6           | 72.4           | 73.3      |           |           |           |           |           |           | 105.6 |
| TAPE 29            | 400                 | 73.4          | 67.2          | 67.5          | 67.8          | 68.5           | 69.5           | 70.5           | 71.0           | 71.3           | 72.1           | 72.9      |           |           |           |           |           |           | 104.9 |
| WAR 29.8 HG        | 500                 | 73.8          | 66.6          | 66.7          | 67.4          | 68.7           | 69.9           | 71.1           | 72.4           | 72.4           | 73.5           | 73.3      |           |           |           |           |           |           | 105.1 |
| (00698, N/M2)      | 630                 | 73.0          | 69.8          | 70.6          | 71.1          | 73.6           | 73.8           | 74.8           | 70.1           | 75.4           | 75.2           | 73.5      |           |           |           |           |           |           | 107.9 |
| TANR 39, DEG F     | 800                 | 71.0          | 69.6          | 69.4          | 69.9          | 71.4           | 72.4           | 73.6           | 74.9           | 75.7           | 75.7           | 72.5      |           |           |           |           |           |           | 107.0 |
| (277, DEG K)       | 1000                | 72.2          | 68.5          | 68.3          | 69.6          | 72.1           | 74.0           | 76.5           | 77.9           | 76.4           | 78.2           | 73.8      |           |           |           |           |           |           | 107.0 |
| TMET 35, DEG F     | 1250                | 74.1          | 71.0          | 72.4          | 76.2          | 77.6           | 80.4           | 82.3           | 83.4           | 84.2           | 84.8           | 78.9      |           |           |           |           |           |           | 114.8 |
| (275, DEG K)       | 1600                | 76.2          | 70.0          | 70.5          | 73.0          | 75.2           | 78.0           | 79.7           | 80.8           | 81.2           | 80.9           | 73.8      |           |           |           |           |           |           | 111.8 |
| MAGY 4.24 GM/M3    | 2000                | 62.5          | 66.5          | 67.6          | 69.1          | 70.6           | 73.5           | 74.3           | 75.7           | 76.4           | 76.6           | 72.0      |           |           |           |           |           |           | 107.2 |
| (.00424 KC/M3)     | 2500                | 66.0          | 67.0          | 68.3          | 70.1          | 73.3           | 75.7           | 77.2           | 79.4           | 83.4           | 80.5           | 75.2      |           |           |           |           |           |           | 111.4 |
| NFA 5435, RPM      | 3150                | 66.3          | 67.9          | 69.3          | 71.4          | 75.1           | 78.3           | 79.0           | 79.9           | 83.2           | 82.4           | 74.9      |           |           |           |           |           |           | 112.3 |
| ( 569, RAD/SEC)    | 4000                | 67.8          | 70.9          | 70.3          | 73.9          | 77.6           | 81.5           | 83.8           | 84.4           | 85.8           | 84.1           | 77.4      |           |           |           |           |           |           | 115.4 |
| NPK 5542, RPM      | 5000                | 67.3          | 68.6          | 69.8          | 73.0          | 77.1           | 81.0           | 84.2           | 84.9           | 85.8           | 82.9           | 76.2      |           |           |           |           |           |           | 115.5 |
| ( 580, RAD/SEC)    | 6300                | 67.3          | 68.9          | 70.7          | 73.4          | 77.3           | 80.8           | 83.4           | 84.9           | 85.9           | 82.7           | 76.3      |           |           |           |           |           |           | 115.4 |
| NFD 8823, RPM      | 8000                | 66.0          | 68.2          | 70.0          | 72.9          | 77.2           | 80.3           | 83.2           | 84.6           | 85.3           | 82.2           | 74.9      |           |           |           |           |           |           | 115.0 |
| ( 924, RAD/SEC)    | 10000               | 62.6          | 68.2          | 70.1          | 73.3          | 78.2           | 81.6           | 83.6           | 85.0           | 85.9           | 81.4           | 75.0      |           |           |           |           |           |           | 115.7 |
| NO. OF BLADES 15   | 12500               | 65.7          | 68.6          | 71.4          | 74.7          | 80.0           | 82.7           | 84.5           | 85.2           | 87.1           | 81.9           | 74.8      |           |           |           |           |           |           | 116.7 |
| FAN TIP SPEED      | 16000               | 64.4          | 65.4          | 66.8          | 70.3          | 74.3           | 77.5           | 80.5           | 83.3           | 84.7           | 79.7           | 72.6      |           |           |           |           |           |           | 114.0 |
| 474, FT/SEC        | 20000               | 64.3          | 65.5          | 65.8          | 68.7          | 73.1           | 76.5           | 79.3           | 82.5           | 85.4           | 80.9           | 72.3      |           |           |           |           |           |           | 114.3 |
|                    | 25000               | 63.1          | 67.9          | 62.4          | 65.6          | 70.2           | 74.0           | 77.6           | 80.0           | 82.1           | 80.3           | 70.5      |           |           |           |           |           |           | 112.6 |
|                    | 31500               | 65.6          | 66.5          | 61.9          | 65.5          | 69.1           | 72.8           | 76.1           | 79.4           | 80.8           | 78.8           | 68.7      |           |           |           |           |           |           | 112.4 |
|                    | 40000               | 67.5          | 68.1          | 60.8          | 63.7          | 67.1           | 70.5           | 74.0           | 76.9           | 79.1           | 77.9           | 65.8      |           |           |           |           |           |           | 112.0 |
|                    | 50000               | 69.1          | 66.8          | 57.6          | 58.0          | 60.8           | 63.7           | 67.8           | 69.3           | 71.0           | 72.6           | 60.0      |           |           |           |           |           |           | 107.4 |
|                    | 61000               | 62.8          | 63.6          | 53.4          | 52.9          | 53.4           | 54.7           | 56.1           | 59.2           | 61.0           | 62.5           | 53.4      |           |           |           |           |           |           | 102.2 |
|                    | 80000               | 67.5          | 67.8          | 55.8          | 54.4          | 54.4           | 54.6           | 55.5           | 54.7           | 54.5           | 54.6           | 54.1      |           |           |           |           |           |           | 107.8 |
| OVERALL MEASURED   |                     |               |               |               |               |                |                |                |                |                |                |           |           |           |           |           |           |           |       |
| OVERALL CALCULATED |                     | 83.1          | 83.5          | 84.4          | 86.4          | 89.2           | 91.8           | 93.7           | 95.1           | 96.6           | 94.2           | 88.5      |           |           |           |           |           |           | 126.8 |
| PNOB               |                     | 94.5          | 94.8          | 95.3          | 97.8          | 100.9          | 103.8          | 105.5          | 107.7          | 108.0          | 105.5          | 101.2     |           |           |           |           |           |           |       |

| FREQ.              | ANGLES FROM INLET IN DEGREES (AND RADIANS) |      |      |      |      |      |      |      |      |      |      |      |    |     |     |
|--------------------|--|------|------|------|------|------|------|------|------|------|------|------|----|-----|-----|
|                    | 50   | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 0    | 90 | 180 | 270 |
| SIDELINE 200. FT.  | 46.5                                       | 47.0 | 50.2 | 52.1 | 53.0 | 51.0 | 48.6 | 43.5 | 44.2 | 44.0 | 44.8 |      |    |     |     |
| (00.96 M)          | 100  | 47.7 | 52.9 | 55.4 | 57.3 | 57.9 | 57.0 | 53.0 | 45.5 | 47.1 | 48.1 | 46.7 |    |     |     |
| VEHICLE R-55       | 125  | 47.2 | 45.0 | 48.5 | 45.8 | 48.9 | 45.8 | 44.5 | 47.4 | 46.5 | 44.5 | 44.0 |    |     |     |
| CONFIG 75-1C       | 160  | 47.5 | 43.3 | 42.8 | 43.4 | 44.0 | 43.6 | 45.1 | 45.5 | 45.9 | 45.5 | 44.0 |    |     |     |
| LOC SCHEMECTADY    | 200  | 49.0 | 43.8 | 42.3 | 43.2 | 44.8 | 46.4 | 47.1 | 47.3 | 47.1 | 47.0 | 45.1 |    |     |     |
| DATF 01-16-75      | 250  | 45.2 | 44.7 | 45.0 | 45.8 | 47.0 | 47.5 | 48.8 | 48.2 | 47.3 | 45.8 | 43.4 |    |     |     |
| HUN 52-6           | 315  | 51.6 | 46.4 | 47.1 | 47.8 | 48.1 | 48.5 | 48.0 | 47.3 | 46.7 | 45.2 | 42.2 |    |     |     |
| TAPE 25            | 400  | 51.1 | 43.9 | 44.0 | 45.6 | 48.5 | 47.3 | 47.8 | 47.4 | 46.2 | 44.7 | 41.6 |    |     |     |
| MAR 29.0 MG        | 500  | 49.4 | 43.2 | 44.0 | 45.2 | 46.5 | 47.0 | 46.3 | 48.7 | 47.2 | 45.9 | 41.8 |    |     |     |
| (00400, N/42)      | 630  | 45.5 | 45.5 | 47.8 | 48.7 | 51.3 | 51.4 | 51.9 | 52.2 | 50.0 | 47.4 | 41.7 |    |     |     |
| TANN 39, DFG F     | 800  | 46.3 | 46.0 | 46.5 | 47.4 | 49.0 | 49.8 | 50.5 | 50.9 | 50.1 | 47.8 | 40.4 |    |     |     |
| (277, DFG K)       | 1000                                       | 47.4 | 44.3 | 45.3 | 47.0 | 49.6 | 51.4 | 53.3 | 53.7 | 52.7 | 50.0 | 46.5 |    |     |     |
| INET 35, DFG F     | 1250                                       | 48.1 | 47.7 | 49.2 | 53.4 | 55.0 | 57.6 | 59.0 | 59.1 | 58.3 | 56.4 | 45.2 |    |     |     |
| (275, DEG K)       | 1600                                       | 45.0 | 45.9 | 47.1 | 50.1 | 52.5 | 55.0 | 56.2 | 56.3 | 55.0 | 52.2 | 40.6 |    |     |     |
| MACT 4.29 GY/M3    | 2000                                       | 40.1 | 42.0 | 44.0 | 46.1 | 47.6 | 50.2 | 50.6 | 50.9 | 50.1 | 47.5 | 38.2 |    |     |     |
| (.00429 KI/M3)     | 2500                                       | 40.3 | 42.5 | 44.6 | 46.8 | 50.2 | 52.4 | 53.3 | 54.5 | 50.8 | 51.2 | 41.0 |    |     |     |
| MFA 5435, RPM      | 3150                                       | 46.3 | 43.0 | 45.3 | 47.9 | 51.7 | 54.7 | 54.8 | 54.7 | 56.2 | 52.5 | 40.0 |    |     |     |
| ( 569, RAD/SEC)    | 4000                                       | 41.3 | 45.6 | 45.9 | 50.0 | 53.8 | 57.5 | 58.3 | 58.7 | 58.2 | 53.6 | 41.4 |    |     |     |
| MFK 5542, RPM      | 5000                                       | 40.5 | 43.1 | 45.1 | 48.8 | 53.1 | 56.7 | 57.3 | 58.9 | 57.9 | 51.9 | 39.6 |    |     |     |
| ( 580, RAD/SEC)    | 6300                                       | 39.5 | 42.6 | 45.2 | 48.5 | 52.6 | 55.8 | 57.8 | 58.0 | 56.9 | 50.5 | 37.9 |    |     |     |
| MFB 8823, RPM      | 8000                                       | 38.8 | 40.8 | 43.4 | 48.9 | 51.4 | 54.2 | 56.4 | 56.4 | 54.9 | 48.0 | 33.6 |    |     |     |
| ( 924, RAD/SEC)    | 10000                                      | 34.5 | 38.8 | 41.9 | 45.7 | 50.9 | 54.0 | 55.2 | 55.0 | 53.4 | 44.5 | 29.8 |    |     |     |
| NO. OF BLADES 15   | 17500                                      | 32.8 | 36.8 | 40.9 | 44.9 | 50.4 | 52.9 | 53.7 | 52.6 | 51.5 | 41.1 | 25.8 |    |     |     |
| FAN TIP SPEED      | 14000                                      | 25.8 | 29.4 | 32.5 | 36.9 | 41.1 | 44.0 | 47.8 | 46.4 | 44.1 | 32.5 | 12.2 |    |     |     |
| 474, FT/SEC        | 20000                                      | 19.7 | 24.0 | 26.2 | 30.5 | 33.2 | 38.1 | 39.5 | 39.9 | 38.0 | 29.2 |      |    |     |     |
|                    | 25000                                      | 11.7 | 17.6 | 15.8 | 20.5 | 23.5 | 28.8 | 30.5 | 29.3 | 25.3 | 12.5 |      |    |     |     |
|                    | 31500                                      |      | 5.9  | 4.8  | 10.4 | 13.4 | 17.5 | 18.3 | 18.9 | 18.1 |      |      |    |     |     |
|                    | 40000                                      |      |      |      |      |      | 0.1  | 0.2  |      |      |      |      |    |     |     |
|                    | 50000                                      |      |      |      |      |      |      |      |      |      |      |      |    |     |     |
|                    | 63000                                      |      |      |      |      |      |      |      |      |      |      |      |    |     |     |
|                    | 80000                                      |      |      |      |      |      |      |      |      |      |      |      |    |     |     |
| OVERALL CALCULATED | 60.1                                       | 58.8 | 60.9 | 62.9 | 63.2 | 67.8 | 67.9 | 67.8 | 67.2 | 64.3 | 55.6 |      |    |     |     |
| PNDB               | 68.1                                       | 67.3 | 70.8 | 73.8 | 77.1 | 79.9 | 80.8 | 81.0 | 80.6 | 78.2 | 65.7 |      |    |     |     |





|                     | FREQ. | 53.   | 62.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0. | 0. | 0. | 0. | 0. |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|
|                     |       | 10.92 | 11.08 | 11.24 | 11.41 | 11.58 | 11.76 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 0. | 0. | 0. | 0. | 0. |
| SIDELINE 200. FT.   | 50    |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |
| ( 60.96 M)          | 63    |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |
| VEHICLE R-55        | 100   | 49.5  | 52.7  | 56.8  | 58.8  | 59.2  | 58.4  | 54.8  | 47.2  | 47.5  | 49.0  | 47.6  |    |    |    |    |    |
| CCNFIC 2-75-AD      | 125   | 43.0  | 45.6  | 49.5  | 47.2  | 48.9  | 46.3  | 45.7  | 48.8  | 46.9  | 45.3  | 44.9  |    |    |    |    |    |
| LCC SCHEMECTARY     | 200   | 39.8  | 41.4  | 42.6  | 44.3  | 45.2  | 47.4  | 47.6  | 48.2  | 47.9  | 48.3  | 46.5  |    |    |    |    |    |
| DATE 1/17/75        | 250   | 42.9  | 45.1  | 46.2  | 47.2  | 48.1  | 48.3  | 48.7  | 49.1  | 47.6  | 46.9  | 44.8  |    |    |    |    |    |
| RUN 53/3            | 315   | 44.4  | 46.5  | 47.9  | 48.5  | 48.3  | 49.3  | 48.4  | 48.2  | 47.2  | 46.3  | 43.5  |    |    |    |    |    |
| TAPE                | 400   | 42.0  | 43.4  | 45.3  | 46.8  | 46.5  | 46.9  | 47.3  | 47.4  | 46.6  | 45.6  | 42.8  |    |    |    |    |    |
| BAR 29.8 HG         | 570   | 41.4  | 43.1  | 44.5  | 46.0  | 46.2  | 47.6  | 46.2  | 49.0  | 47.5  | 45.9  | 41.8  |    |    |    |    |    |
| (80707. N/M2)       | 630   | 44.8  | 46.0  | 48.1  | 49.1  | 50.1  | 51.3  | 51.3  | 51.6  | 49.4  | 47.3  | 41.6  |    |    |    |    |    |
| TAMB 30. DEG F      | 800   | 43.6  | 45.3  | 46.5  | 47.8  | 49.7  | 49.7  | 50.5  | 51.2  | 49.9  | 47.8  | 41.5  |    |    |    |    |    |
| (277. DEG K)        | 1000  | 40.2  | 42.9  | 43.6  | 45.9  | 47.3  | 49.5  | 51.1  | 51.6  | 51.5  | 48.8  | 40.4  |    |    |    |    |    |
| TNET 35. DEG F      | 1250  | 43.3  | 42.8  | 45.5  | 48.1  | 49.5  | 51.9  | 52.9  | 54.7  | 54.3  | 53.1  | 42.3  |    |    |    |    |    |
| (275. DEG K)        | 1600  | 38.9  | 40.4  | 41.8  | 44.2  | 45.6  | 47.8  | 49.0  | 50.0  | 49.3  | 47.6  | 37.4  |    |    |    |    |    |
| NACT 4.24 CM/M3     | 2000  | 37.9  | 39.9  | 41.6  | 44.3  | 45.2  | 48.4  | 49.3  | 50.8  | 50.6  | 48.5  | 39.4  |    |    |    |    |    |
| (.00424 KG/M3)      | 2500  | 44.2  | 46.8  | 51.2  | 53.2  | 55.3  | 57.9  | 59.1  | 61.0  | 61.6  | 57.5  | 46.5  |    |    |    |    |    |
| NFA 5440. RPM       | 3150  | 43.1  | 46.5  | 48.9  | 52.2  | 55.1  | 58.4  | 59.8  | 59.9  | 59.2  | 59.2  | 43.7  |    |    |    |    |    |
| ( 570. RAD/SEC)     | 4000  | 44.0  | 47.2  | 49.9  | 53.5  | 57.4  | 60.5  | 62.3  | 62.9  | 61.1  | 59.5  | 43.6  |    |    |    |    |    |
| NFK 5540. RPM       | 5000  | 39.4  | 41.9  | 45.1  | 48.7  | 51.9  | 56.2  | 58.9  | 57.8  | 55.7  | 51.2  | 39.2  |    |    |    |    |    |
| ( 581. RAD/SEC)     | 6300  | 38.6  | 41.2  | 44.5  | 47.7  | 52.0  | 55.5  | 57.5  | 57.8  | 56.5  | 49.7  | 37.2  |    |    |    |    |    |
| NFD 8823. RPM       | 8000  | 35.9  | 39.6  | 42.7  | 47.3  | 51.7  | 55.0  | 56.3  | 56.2  | 54.5  | 47.7  | 34.2  |    |    |    |    |    |
| ( 924. RAD/SEC)     | 10000 | 30.0  | 41.5  | 46.4  | 52.4  | 57.7  | 63.4  | 62.5  | 56.7  | 53.6  | 45.8  | 33.7  |    |    |    |    |    |
| NO. OF BLADES 15    | 12500 | 31.9  | 34.7  | 38.2  | 44.0  | 49.0  | 51.8  | 52.5  | 52.1  | 50.0  | 40.8  | 24.4  |    |    |    |    |    |
| FAN TIP SPEED 16000 | 24.6  | 28.3  | 31.5  | 37.5  | 41.6  | 45.1  | 46.2  | 46.4  | 43.2  | 32.2  | 13.7  |       |    |    |    |    |    |
| 475. FT/SEC         | 20000 | 17.3  | 21.7  | 24.7  | 30.6  | 35.2  | 38.4  | 39.3  | 39.5  | 37.0  | 23.2  | 0.3   |    |    |    |    |    |
|                     | 25000 | 7.3   | 14.4  | 15.8  | 21.9  | 28.1  | 28.9  | 29.9  | 28.9  | 24.2  | 8.7   |       |    |    |    |    |    |
|                     | 31500 |       | 0.6   | 5.8   | 11.1  | 14.9  | 17.9  | 18.2  | 16.7  | 9.1   |       |       |    |    |    |    |    |
|                     | 40000 |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |
|                     | 50000 |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |
|                     | 63000 |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |
|                     | 80000 |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |
| OVERALL CALCULATED  |       | 56.2  | 58.5  | 61.5  | 63.7  | 66.0  | 68.8  | 69.4  | 69.0  | 68.8  | 64.8  | 56.3  |    |    |    |    |    |
| PNDP                |       | 67.2  | 70.0  | 72.8  | 75.7  | 78.8  | 81.7  | 83.0  | 83.3  | 81.9  | 77.8  | 67.8  |    |    |    |    |    |

ORIGINAL PAGE IS OF POOR QUALITY



|                    | FREQ.   | 53.    | 67.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156. | 0. | 0. | 0. | 0. | 0. | 0. |
|--------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|----|
|                    | (10.92) | (1.06) | (1.24) | (1.41) | (1.54) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 0. | 0. | 0. | 0. | 0. |    |
| SIDELINE 200. FT.  | 50      |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
| ( 80.98 M)         | 61      |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
| VEHICLE P-55       | 100     | 51.1   | 53.2   | 51.1   | 51.0   | 47.8   | 48.4   | 47.9   | 47.1   | 46.5   | 49.8   | 50.0 |    |    |    |    |    |    |
| CONFIG ← 75-D      | 125     | 46.5   | 47.8   | 49.7   | 49.6   | 50.7   | 48.8   | 48.6   | 51.3   | 50.7   | 50.2   | 49.6 |    |    |    |    |    |    |
| LOC SCHENECTARY    | 150     | 44.4   | 46.0   | 46.9   | 48.3   | 48.1   | 48.3   | 50.2   | 50.9   | 51.1   | 51.3   | 49.6 |    |    |    |    |    |    |
| DATE 1/17/75       | 200     | 43.4   | 45.4   | 46.1   | 48.7   | 49.8   | 51.4   | 51.9   | 52.8   | 52.2   | 52.6   | 50.9 |    |    |    |    |    |    |
| RUN 53/4           | 250     | 45.7   | 48.3   | 50.3   | 51.1   | 51.7   | 51.8   | 52.3   | 52.0   | 51.6   | 51.2   | 48.7 |    |    |    |    |    |    |
| TAPE               | 315     | 48.4   | 50.2   | 51.1   | 52.3   | 52.4   | 52.8   | 52.2   | 51.9   | 51.5   | 50.3   | 47.7 |    |    |    |    |    |    |
| BAR 29.8 HG        | 400     | 46.3   | 47.4   | 48.6   | 50.0   | 50.1   | 50.9   | 50.6   | 51.0   | 50.1   | 49.4   | 47.0 |    |    |    |    |    |    |
| (100707. N/N2)     | 500     | 44.9   | 46.0   | 47.2   | 48.7   | 50.2   | 50.6   | 51.6   | 51.7   | 51.2   | 49.8   | 45.8 |    |    |    |    |    |    |
| TAMB 39. DEG F     | 630     | 47.8   | 48.4   | 51.1   | 52.6   | 53.2   | 54.3   | 54.7   | 54.3   | 52.9   | 51.1   | 45.3 |    |    |    |    |    |    |
| (1277. DEG F)      | 800     | 47.2   | 48.5   | 49.5   | 51.2   | 52.0   | 53.2   | 53.5   | 53.7   | 52.4   | 50.9   | 44.5 |    |    |    |    |    |    |
| TWET 35. DEG F     | 1000    | 44.1   | 44.1   | 46.8   | 49.6   | 50.7   | 52.8   | 54.2   | 54.3   | 54.0   | 51.2   | 43.1 |    |    |    |    |    |    |
| (1275. DEG F)      | 1200    | 43.4   | 44.5   | 46.5   | 48.8   | 50.8   | 52.7   | 54.8   | 54.1   | 53.3   | 51.4   | 43.0 |    |    |    |    |    |    |
| MACT 8.24 CM/MS    | 1400    | 46.2   | 47.1   | 48.0   | 51.4   | 53.7   | 55.5   | 56.3   | 56.1   | 56.1   | 54.4   | 43.1 |    |    |    |    |    |    |
| (1.00424 KC/M3)    | 2000    | 42.2   | 43.9   | 45.6   | 48.2   | 50.3   | 52.1   | 53.4   | 53.9   | 54.4   | 51.1   | 41.4 |    |    |    |    |    |    |
| NFA 6211. RPM      | 2500    | 44.5   | 47.2   | 48.9   | 52.6   | 54.9   | 57.7   | 58.2   | 58.9   | 59.6   | 54.0   | 42.7 |    |    |    |    |    |    |
| ( 650. RAD/SEC)    | 3150    | 48.4   | 51.7   | 53.4   | 57.5   | 60.6   | 63.9   | 65.1   | 64.6   | 65.5   | 60.3   | 48.2 |    |    |    |    |    |    |
| NFA 6336. RPM      | 4000    | 46.8   | 50.2   | 52.8   | 57.2   | 62.2   | 63.5   | 65.1   | 64.3   | 62.4   | 54.0   | 45.3 |    |    |    |    |    |    |
| ( 663. RAD/SEC)    | 5000    | 44.7   | 47.9   | 50.8   | 53.7   | 57.7   | 61.2   | 63.0   | 62.0   | 60.5   | 54.1   | 43.4 |    |    |    |    |    |    |
| NFD 8823. RPM      | 6300    | 42.2   | 45.1   | 48.0   | 51.9   | 55.6   | 59.5   | 60.8   | 61.2   | 60.0   | 52.3   | 40.9 |    |    |    |    |    |    |
| ( 924. RAD/SEC)    | 8000    | 40.7   | 43.8   | 46.7   | 52.0   | 55.2   | 58.3   | 60.7   | 60.4   | 58.1   | 50.1   | 37.4 |    |    |    |    |    |    |
| NO. OF BLADES 15   | 10000   | 37.6   | 41.2   | 44.2   | 49.8   | 53.6   | 56.6   | 58.1   | 58.3   | 56.6   | 47.4   | 33.4 |    |    |    |    |    |    |
| FAN TIP SPEED      | 12000   | 34.6   | 38.0   | 42.2   | 47.9   | 52.1   | 54.0   | 56.1   | 56.8   | 53.3   | 43.1   | 27.0 |    |    |    |    |    |    |
| 542. FT/SEC        | 16000   | 28.2   | 32.8   | 35.8   | 41.9   | 46.7   | 48.6   | 50.5   | 50.8   | 47.0   | 39.8   | 18.0 |    |    |    |    |    |    |
|                    | 20000   | 21.6   | 26.2   | 29.7   | 37.0   | 40.5   | 43.4   | 44.6   | 44.5   | 42.2   | 28.8   | 4.2  |    |    |    |    |    |    |
|                    | 25000   | 12.1   | 17.3   | 20.8   | 27.8   | 31.4   | 34.2   | 35.3   | 34.8   | 28.7   | 12.5   |      |    |    |    |    |    |    |
|                    | 31500   |        | 5.6    | 9.0    | 16.8   | 20.8   | 23.5   | 23.8   | 20.9   | 13.6   |        |      |    |    |    |    |    |    |
|                    | 40000   |        |        |        |        | 2.6    | 4.9    | 5.8    |        |        |        |      |    |    |    |    |    |    |
|                    | 50000   |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
|                    | 63000   |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
|                    | 80000   |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
| OVERALL CALCULATED |         | 59.3   | 61.3   | 62.6   | 65.3   | 67.9   | 70.5   | 71.9   | 71.7   | 78.9   | 66.2   | 59.7 |    |    |    |    |    |    |
| ORDER              |         | 71.2   | 73.9   | 75.7   | 79.3   | 82.0   | 84.7   | 85.9   | 85.6   | 85.6   | 80.8   | 78.7 |    |    |    |    |    |    |

|                     |       | 5%     | 6%     | 7%     | 8%     | 9%     | 10%    | 11%    | 12%    | 13%    | 14%    | 15%    | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  |  |
|---------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|-----|--|
|                     | FREQ. | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0. | (0. | (0. | (0. | (0. | (0. | (0. |  |
| RADIAL 17. FT.      | 50    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |  |
| ( 5. M)             | 60    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |  |
| VEHICLE             | 120   | 68.0   | 73.1   | 77.9   | 77.7   | 77.4   | 71.7   | 71.6   | 77.4   | 76.2   | 81.1   | 84.6   |     |     |     |     |     |     |     |  |
| CONFIC              | 140   | 74.5   | 79.6   | 79.9   | 77.9   | 77.1   | 74.9   | 74.6   | 77.9   | 79.0   | 80.8   | 83.6   |     |     |     |     |     |     |     |  |
| LCC SCHNECTADY      | 270   | 71.9   | 72.1   | 72.6   | 73.4   | 72.7   | 73.2   | 74.1   | 77.2   | 79.2   | 81.9   | 83.6   |     |     |     |     |     |     |     |  |
| DATE 1/17/75        | 250   | 70.9   | 70.9   | 71.6   | 72.9   | 74.1   | 74.1   | 77.1   | 78.9   | 80.0   | 83.1   | 85.1   |     |     |     |     |     |     |     |  |
| RUN 53/5            | 314   | 74.5   | 74.4   | 75.6   | 74.6   | 74.9   | 77.1   | 78.1   | 74.9   | 80.2   | 87.3   | 83.0   |     |     |     |     |     |     |     |  |
| TAPE                | 470   | 75.5   | 74.1   | 76.4   | 77.9   | 77.4   | 77.7   | 74.3   | 74.9   | 79.4   | 81.9   | 82.0   |     |     |     |     |     |     |     |  |
| BAR 20.4 MC         | 570   | 74.1   | 74.1   | 74.1   | 75.2   | 75.6   | 75.9   | 77.4   | 78.4   | 79.0   | 81.3   | 81.0   |     |     |     |     |     |     |     |  |
| (00777. 4/42)       | 670   | 77.3   | 77.6   | 77.4   | 74.2   | 74.3   | 75.7   | 77.6   | 74.7   | 79.5   | 80.8   | 80.9   |     |     |     |     |     |     |     |  |
| TAMB 39. DEG F      | 770   | 74.9   | 74.1   | 75.4   | 74.9   | 77.7   | 74.9   | 80.6   | 81.4   | 80.7   | 81.4   | 80.9   |     |     |     |     |     |     |     |  |
| (277. DEG K)        | 870   | 74.4   | 74.4   | 75.1   | 76.2   | 77.4   | 77.7   | 79.3   | 80.4   | 81.0   | 81.9   | 80.4   |     |     |     |     |     |     |     |  |
| TLET 35. DEG F      | 1070  | 71.9   | 72.6   | 72.9   | 74.9   | 75.9   | 77.9   | 79.4   | 81.1   | 82.0   | 81.9   | 79.1   |     |     |     |     |     |     |     |  |
| (275. DEG K)        | 1170  | 71.7   | 71.2   | 72.4   | 74.5   | 75.9   | 74.0   | 80.1   | 81.1   | 82.2   | 81.4   | 79.1   |     |     |     |     |     |     |     |  |
| HACT 4.24 G/MS      | 1270  | 73.4   | 72.9   | 73.9   | 74.5   | 77.2   | 74.7   | 80.6   | 83.4   | 84.7   | 84.1   | 78.9   |     |     |     |     |     |     |     |  |
| (1.00424 KG/MS)     | 1370  | 72.4   | 72.5   | 73.6   | 75.6   | 77.2   | 79.3   | 81.3   | 83.4   | 85.4   | 84.1   | 79.1   |     |     |     |     |     |     |     |  |
| NFA 6585. RPM       | 1470  | 72.7   | 74.0   | 74.1   | 74.6   | 81.3   | 82.8   | 84.3   | 85.6   | 84.5   | 83.7   | 79.6   |     |     |     |     |     |     |     |  |
| ( 731. RA-/SEC)     | 1570  | 74.7   | 74.7   | 79.1   | 81.2   | 85.8   | 89.0   | 91.0   | 91.6   | 93.7   | 84.7   | 83.1   |     |     |     |     |     |     |     |  |
| NPK 7124. RPM       | 1670  | 77.1   | 79.0   | 83.4   | 85.4   | 84.0   | 91.2   | 93.5   | 93.5   | 93.9   | 89.9   | 84.8   |     |     |     |     |     |     |     |  |
| ( 748. RAD/SEC)     | 1770  | 73.9   | 75.2   | 77.0   | 80.9   | 84.5   | 87.9   | 91.4   | 91.5   | 90.4   | 86.8   | 81.7   |     |     |     |     |     |     |     |  |
| NFS 823. RPM        | 1870  | 72.9   | 73.0   | 76.0   | 79.5   | 82.6   | 87.4   | 89.9   | 91.0   | 92.4   | 86.0   | 81.1   |     |     |     |     |     |     |     |  |
| ( 924. RAD/SEC)     | 1970  | 72.4   | 74.2   | 77.0   | 81.5   | 84.8   | 87.4   | 91.5   | 91.4   | 93.0   | 87.0   | 81.0   |     |     |     |     |     |     |     |  |
| NO. OF BLADES 15    | 2070  | 71.7   | 73.3   | 75.9   | 80.9   | 84.2   | 87.5   | 90.8   | 92.0   | 93.2   | 84.8   | 81.4   |     |     |     |     |     |     |     |  |
| FAN TIP SPEED 15000 | 2170  | 72.2   | 73.6   | 76.2   | 81.7   | 85.6   | 88.1   | 90.4   | 92.1   | 92.9   | 86.7   | 81.3   |     |     |     |     |     |     |     |  |
| 610. FT/SEC         | 2270  | 71.7   | 72.6   | 75.6   | 80.9   | 85.8   | 89.1   | 89.2   | 91.7   | 90.9   | 85.2   | 80.8   |     |     |     |     |     |     |     |  |
|                     | 2370  | 49.2   | 70.9   | 73.3   | 79.5   | 82.6   | 85.7   | 88.7   | 91.3   | 92.1   | 86.8   | 79.5   |     |     |     |     |     |     |     |  |
|                     | 2470  | 67.7   | 69.3   | 71.6   | 77.4   | 81.4   | 83.7   | 84.6   | 89.9   | 90.3   | 84.7   | 70.4   |     |     |     |     |     |     |     |  |
|                     | 2570  | 66.9   | 64.2   | 70.1   | 76.9   | 79.8   | 83.1   | 85.9   | 87.9   | 88.4   | 83.2   | 76.0   |     |     |     |     |     |     |     |  |
|                     | 2670  | 64.9   | 64.5   | 64.4   | 72.9   | 76.7   | 79.4   | 83.0   | 84.5   | 85.8   | 80.0   | 70.7   |     |     |     |     |     |     |     |  |
|                     | 2770  | 64.6   | 66.4   | 68.2   | 70.8   | 72.1   | 76.2   | 78.9   | 79.6   | 80.5   | 76.8   | 67.1   |     |     |     |     |     |     |     |  |
|                     | 2870  | 64.5   | 64.2   | 68.2   | 69.4   | 69.6   | 71.6   | 72.9   | 72.8   | 73.3   | 70.9   | 65.4   |     |     |     |     |     |     |     |  |
|                     | 2970  | 71.0   | 68.6   | 69.4   | 68.4   | 67.2   | 64.5   | 68.6   | 68.5   | 67.4   | 67.4   | 64.9   |     |     |     |     |     |     |     |  |
| OVERALL MEASURED    |       |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |  |
| OVERALL CALCULATED  |       | 87.5   | 88.6   | 90.0   | 93.3   | 96.0   | 99.0   | 101.3  | 102.5  | 103.3  | 99.0   | 96.0   |     |     |     |     |     |     |     |  |
| PHCC                |       | 100.1  | 101.4  | 102.0  | 106.5  | 108.8  | 111.6  | 113.8  | 114.3  | 115.1  | 111.9  | 108.1  |     |     |     |     |     |     |     |  |

WHEEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT DEL. HUM. 84V1

ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                     | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 143.   | 150.   | 0.   | 0. | 0. | 0. | 0. | 0.  |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|-----|
| FREQ.               | (0.02) | (1.04) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 0. | 0. | 0. | 0. | 0.) |
| SIDELINE 200. FT.   | 63     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| ( 60.00 M)          | 50     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| VEHICLE             | 130    | 44.4   | 50.4   | 51.4   | 51.0   | 50.8   | 49.9   | 49.4   | 49.3   | 51.0   | 54.5   | 54.5 |    |    |    |    |     |
| CONFIG              | 175    | 50.8   | 56.8   | 57.7   | 54.1   | 55.5   | 53.1   | 52.3   | 54.0   | 54.4   | 54.2   | 53.4 |    |    |    |    |     |
| LCC SCHEMECTADY     | 160    | 47.3   | 43.2   | 50.4   | 51.8   | 51.1   | 51.3   | 53.7   | 53.9   | 54.4   | 55.0   | 53.1 |    |    |    |    |     |
| DATE 1/17/75        | 250    | 45.4   | 47.9   | 49.3   | 51.0   | 52.3   | 54.2   | 54.7   | 55.6   | 55.2   | 54.1   | 54.4 |    |    |    |    |     |
| RUN 53/5            | 250    | 49.5   | 41.3   | 53.2   | 54.4   | 55.0   | 55.1   | 55.4   | 55.5   | 55.3   | 55.2   | 53.0 |    |    |    |    |     |
| TAPE                | 314    | 51.4   | 53.0   | 53.9   | 55.9   | 55.4   | 45.5   | 55.7   | 55.4   | 54.5   | 54.3   | 51.7 |    |    |    |    |     |
| BAR 29.8 MC         | 450    | 49.4   | 54.9   | 51.0   | 53.0   | 53.4   | 43.7   | 54.6   | 54.4   | 53.9   | 53.0   | 50.5 |    |    |    |    |     |
| (00707. 4/M2)       | 500    | 47.9   | 49.3   | 50.0   | 51.9   | 52.7   | 53.4   | 54.4   | 54.9   | 54.2   | 53.3   | 49.3 |    |    |    |    |     |
| TAMP                | 630    | 49.3   | 50.7   | 52.6   | 54.6   | 55.4   | 56.5   | 57.7   | 57.5   | 55.4   | 53.0   | 49.0 |    |    |    |    |     |
| (277. DEC F)        | 800    | 49.7   | 51.8   | 52.2   | 51.7   | 55.3   | 58.2   | 54.3   | 56.4   | 55.4   | 53.9   | 44.2 |    |    |    |    |     |
| TACT                | 1000   | 47.1   | 44.9   | 49.8   | 53.3   | 53.4   | 55.3   | 56.7   | 57.0   | 56.3   | 53.7   | 46.0 |    |    |    |    |     |
| (275. DEC F)        | 1250   | 46.7   | 47.2   | 49.2   | 51.4   | 53.1   | 55.2   | 56.4   | 56.4   | 56.3   | 59.0   | 46.3 |    |    |    |    |     |
| NACT                | 1400   | 44.2   | 44.8   | 50.5   | 52.0   | 54.4   | 55.0   | 57.1   | 58.0   | 58.0   | 55.4   | 45.6 |    |    |    |    |     |
| (4.24 GM/MS)        | 2000   | 47.3   | 48.1   | 50.1   | 52.5   | 54.3   | 46.1   | 57.6   | 58.7   | 59.1   | 55.1   | 45.4 |    |    |    |    |     |
| (1.00424 KG/MS)     | 2500   | 47.0   | 49.5   | 51.4   | 54.4   | 54.1   | 59.5   | 60.4   | 60.7   | 61.0   | 54.3   | 45.4 |    |    |    |    |     |
| NFA                 | 3100   | 49.7   | 51.0   | 54.1   | 54.4   | 62.4   | 65.4   | 66.0   | 66.3   | 64.7   | 54.0   | 48.2 |    |    |    |    |     |
| ( 731. RPM/SEC)     | 4000   | 50.8   | 51.7   | 56.4   | 61.4   | 64.2   | 67.2   | 68.8   | 67.8   | 64.4   | 59.3   | 48.4 |    |    |    |    |     |
| NFK                 | 5000   | 47.0   | 49.6   | 52.3   | 54.7   | 60.4   | 63.7   | 64.4   | 65.4   | 62.4   | 59.0   | 45.1 |    |    |    |    |     |
| ( 740. RAD/SEC)     | 6300   | 45.2   | 47.4   | 50.5   | 54.6   | 57.9   | 62.5   | 64.3   | 64.2   | 63.5   | 53.0   | 42.6 |    |    |    |    |     |
| NPD                 | 8000   | 43.2   | 46.6   | 50.4   | 55.5   | 59.3   | 62.3   | 64.7   | 63.6   | 62.6   | 52.0   | 40.6 |    |    |    |    |     |
| ( 974. RAD/SEC)     | 10000  | 43.6   | 44.0   | 47.7   | 53.3   | 54.8   | 59.9   | 62.3   | 62.1   | 60.4   | 40.9   | 38.1 |    |    |    |    |     |
| NO. OF BLADES 15    | 12000  | 34.3   | 41.0   | 45.7   | 51.9   | 56.1   | 54.3   | 59.6   | 59.5   | 57.3   | 45.0   | 38.4 |    |    |    |    |     |
| FAN TIP SPEED       | 16000  | 32.7   | 36.0   | 41.3   | 47.4   | 52.7   | 55.0   | 54.4   | 54.0   | 50.2   | 38.0   | 30.4 |    |    |    |    |     |
| 610. FT/SEC         | 20000  | 24.6   | 29.4   | 33.9   | 41.3   | 44.5   | 47.4   | 48.0   | 48.7   | 44.7   | 34.3   | 28.7 |    |    |    |    |     |
|                     | 25000  | 14.6   | 20.1   | 25.0   | 32.3   | 36.9   | 34.4   | 39.5   | 39.3   | 33.4   | 16.0   |      |    |    |    |    |     |
|                     | 31500  | 0.9    | 7.6    | 13.0   | 20.0   | 25.3   | 27.7   | 28.0   | 25.4   | 18.1   |        |      |    |    |    |    |     |
|                     | 40000  |        |        |        | 2.0    | 6.0    | 9.2    | 9.2    | 4.4    |        |        |      |    |    |    |    |     |
|                     | 50000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
|                     | 63000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
|                     | 80000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| OVERALL CALCULATION |        | 61.6   | 64.0   | 65.0   | 64.6   | 70.0   | 73.4   | 75.0   | 74.6   | 73.7   | 66.3   | 63.2 |    |    |    |    |     |
| PAGE                |        | 73.9   | 76.2   | 76.0   | 62.0   | 85.1   | 87.0   | 89.2   | 88.7   | 87.0   | 81.7   | 72.0 |    |    |    |    |     |

71. 81. 91. 101. 111. 121. 131. 141. 151. 161. 171. 181. 191. 201. PNL  
 (10.2)(10.4)(10.6)(10.8)(11.0)(11.2)(11.4)(11.6)(11.8)(12.0)(12.2)(12.4)(12.6)(12.8)(13.0)(13.2)(13.4)(13.6)(13.8)(14.0)(14.2)(14.4)(14.6)(14.8)(15.0)(15.2)(15.4)(15.6)(15.8)(16.0)(16.2)(16.4)(16.6)(16.8)(17.0)(17.2)(17.4)(17.6)(17.8)(18.0)(18.2)(18.4)(18.6)(18.8)(19.0)(19.2)(19.4)(19.6)(19.8)(20.0)

| PARAMETER          | 71    | 81    | 91    | 101   | 111   | 121   | 131   | 141   | 151   | 161   | 171   | 181  | 191  | 201  | PNL   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| RADIAL 17. FT.     | 77.1  | 77.4  | 77.7  | 77.9  | 78.2  | 78.4  | 78.6  | 78.7  | 78.9  | 79.1  | 79.3  | 79.5 | 79.7 | 79.9 | 112.0 |
| VEHICLE            | 77.4  | 77.6  | 77.8  | 78.0  | 78.2  | 78.4  | 78.6  | 78.7  | 78.9  | 79.1  | 79.3  | 79.5 | 79.7 | 79.9 | 114.1 |
| CONFIC             | 74.3  | 74.6  | 74.9  | 75.1  | 75.4  | 75.6  | 75.8  | 76.0  | 76.2  | 76.4  | 76.6  | 76.8 | 77.0 | 77.2 | 114.3 |
| LCC SCHEDULE       | 77.8  | 78.1  | 78.4  | 78.7  | 79.0  | 79.3  | 79.6  | 79.9  | 80.2  | 80.5  | 80.8  | 81.1 | 81.4 | 81.7 | 115.0 |
| DATE 1/17/75       | 77.5  | 77.8  | 78.1  | 78.4  | 78.7  | 79.0  | 79.3  | 79.6  | 79.9  | 80.2  | 80.5  | 80.8 | 81.1 | 81.4 | 117.0 |
| RUM 5366           | 79.0  | 79.3  | 79.6  | 79.9  | 80.2  | 80.5  | 80.8  | 81.1  | 81.4  | 81.7  | 82.0  | 82.3 | 82.6 | 82.9 | 116.1 |
| TAPE               | 77.3  | 77.6  | 77.9  | 78.2  | 78.5  | 78.8  | 79.1  | 79.4  | 79.7  | 80.0  | 80.3  | 80.6 | 80.9 | 81.2 | 114.9 |
| BAR 29.4 MG        | 75.3  | 75.6  | 75.9  | 76.2  | 76.5  | 76.8  | 77.1  | 77.4  | 77.7  | 78.0  | 78.3  | 78.6 | 78.9 | 79.2 | 116.0 |
| 100707. RPM        | 74.9  | 75.2  | 75.5  | 75.8  | 76.1  | 76.4  | 76.7  | 77.0  | 77.3  | 77.6  | 77.9  | 78.2 | 78.5 | 78.8 | 116.1 |
| TANK 39. TEG F     | 77.4  | 77.7  | 78.0  | 78.3  | 78.6  | 78.9  | 79.2  | 79.5  | 79.8  | 80.1  | 80.4  | 80.7 | 81.0 | 81.3 | 116.0 |
| 1277. TEG F        | 77.1  | 77.4  | 77.7  | 78.0  | 78.3  | 78.6  | 78.9  | 79.2  | 79.5  | 79.8  | 80.1  | 80.4 | 80.7 | 81.0 | 115.3 |
| TACT 75. TEG F     | 74.4  | 74.7  | 75.0  | 75.3  | 75.6  | 75.9  | 76.2  | 76.5  | 76.8  | 77.1  | 77.4  | 77.7 | 78.0 | 78.3 | 115.2 |
| 1275. TEG F        | 77.7  | 78.0  | 78.3  | 78.6  | 78.9  | 79.2  | 79.5  | 79.8  | 80.1  | 80.4  | 80.7  | 81.0 | 81.3 | 81.6 | 114.9 |
| MACT 4.24 RPM      | 77.7  | 78.0  | 78.3  | 78.6  | 78.9  | 79.2  | 79.5  | 79.8  | 80.1  | 80.4  | 80.7  | 81.0 | 81.3 | 81.6 | 121.0 |
| 100424 RPM         | 75.6  | 75.9  | 76.2  | 76.5  | 76.8  | 77.1  | 77.4  | 77.7  | 78.0  | 78.3  | 78.6  | 78.9 | 79.2 | 79.5 | 120.0 |
| NFA 7767. RPM      | 76.4  | 76.7  | 77.0  | 77.3  | 77.6  | 77.9  | 78.2  | 78.5  | 78.8  | 79.1  | 79.4  | 79.7 | 80.0 | 80.3 | 123.1 |
| 1 813. RAD/SEC     | 71.1  | 71.4  | 71.7  | 72.0  | 72.3  | 72.6  | 72.9  | 73.2  | 73.5  | 73.8  | 74.1  | 74.4 | 74.7 | 75.0 | 120.0 |
| NFK 7921. RPM      | 74.6  | 74.9  | 75.2  | 75.5  | 75.8  | 76.1  | 76.4  | 76.7  | 77.0  | 77.3  | 77.6  | 77.9 | 78.2 | 78.5 | 124.3 |
| 1 829. RAD/SEC     | 74.2  | 74.5  | 74.8  | 75.1  | 75.4  | 75.7  | 76.0  | 76.3  | 76.6  | 76.9  | 77.2  | 77.5 | 77.8 | 78.1 | 125.4 |
| NFD 823. RPM       | 75.4  | 75.7  | 76.0  | 76.3  | 76.6  | 76.9  | 77.2  | 77.5  | 77.8  | 78.1  | 78.4  | 78.7 | 79.0 | 79.3 | 125.4 |
| 1 924. RAD/SEC     | 71.7  | 72.0  | 72.3  | 72.6  | 72.9  | 73.2  | 73.5  | 73.8  | 74.1  | 74.4  | 74.7  | 75.0 | 75.3 | 75.6 | 123.2 |
| NO. OF BLADES 15   | 75.7  | 76.0  | 76.3  | 76.6  | 76.9  | 77.2  | 77.5  | 77.8  | 78.1  | 78.4  | 78.7  | 79.0 | 79.3 | 79.6 | 125.0 |
| FAN TIP SPEED      | 77.2  | 77.5  | 77.8  | 78.1  | 78.4  | 78.7  | 79.0  | 79.3  | 79.6  | 79.9  | 80.2  | 80.5 | 80.8 | 81.1 | 124.0 |
| 670. FT/SEC        | 77.0  | 77.3  | 77.6  | 77.9  | 78.2  | 78.5  | 78.8  | 79.1  | 79.4  | 79.7  | 80.0  | 80.3 | 80.6 | 80.9 | 125.0 |
| 2500               | 71.6  | 71.9  | 72.2  | 72.5  | 72.8  | 73.1  | 73.4  | 73.7  | 74.0  | 74.3  | 74.6  | 74.9 | 75.2 | 75.5 | 125.7 |
| 3150               | 73.2  | 73.5  | 73.8  | 74.1  | 74.4  | 74.7  | 75.0  | 75.3  | 75.6  | 75.9  | 76.2  | 76.5 | 76.8 | 77.1 | 124.0 |
| 4000               | 67.9  | 68.2  | 68.5  | 68.8  | 69.1  | 69.4  | 69.7  | 70.0  | 70.3  | 70.6  | 70.9  | 71.2 | 71.5 | 71.8 | 122.0 |
| 5000               | 64.1  | 64.4  | 64.7  | 65.0  | 65.3  | 65.6  | 65.9  | 66.2  | 66.5  | 66.8  | 67.1  | 67.4 | 67.7 | 68.0 | 120.1 |
| 6000               | 60.5  | 60.8  | 61.1  | 61.4  | 61.7  | 62.0  | 62.3  | 62.6  | 62.9  | 63.2  | 63.5  | 63.8 | 64.1 | 64.4 | 118.4 |
| 8000               | 71.0  | 71.3  | 71.6  | 71.9  | 72.2  | 72.5  | 72.8  | 73.1  | 73.4  | 73.7  | 74.0  | 74.3 | 74.6 | 74.9 | 116.0 |
| OVERALL CALCULATED | 93.3  | 91.3  | 93.1  | 94.9  | 96.5  | 102.3 | 105.1 | 106.1 | 105.0 | 101.9 | 99.3  |      |      |      | 127.1 |
| PNL                | 103.4 | 104.6 | 106.0 | 110.5 | 112.9 | 115.2 | 117.5 | 116.5 | 116.1 | 115.1 | 111.5 |      |      |      |       |

|                          | 60    | 67    | 71    | 81    | 91    | 101   | 111   | 127   | 133   | 145   | 156   | 0    | 0 | 0 | 0 | 0 | 0 |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---|---|---|---|---|
| PROC.                    | 10.72 | 11.08 | 11.24 | 11.41 | 11.58 | 11.76 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 0    | 0 | 0 | 0 | 0 | 0 |
| SIDELINE 200. FT.        | 60    | 61    | 60    |       |       |       |       |       |       |       |       |      |   |   |   |   |   |
| VELOCITY 80-64 M         | 170   | 45.4  | 49.4  | 51.3  | 57.8  | 52.7  | 52.9  | 52.7  | 51.8  | 54.3  | 54.9  | 57.5 |   |   |   |   |   |
| CL/FIC 2-45              | 124   | 52.8  | 54.6  | 54.5  | 54.4  | 55.5  | 55.3  | 54.3  | 57.8  | 58.2  | 57.2  | 58.9 |   |   |   |   |   |
| LOC SCHEMATAEV 400 45-45 | 150   | 55.4  | 51.7  | 57.9  | 54.8  | 54.4  | 54.5  | 54.5  | 57.2  | 57.8  | 58.3  | 58.4 |   |   |   |   |   |
| DATE 1/17/75             | 270   | 49.8  | 50.4  | 51.0  | 57.7  | 55.6  | 47.4  | 57.7  | 54.6  | 58.5  | 58.1  | 57.7 |   |   |   |   |   |
| RUN 53/A                 | 314   | 54.5  | 55.8  | 57.5  | 54.9  | 57.5  | 60.0  | 61.1  | 62.0  | 60.8  | 60.7  | 57.5 |   |   |   |   |   |
| TAP 20.0 MG              | 400   | 54.0  | 54.2  | 57.1  | 54.5  | 58.7  | 58.8  | 54.7  | 54.8  | 54.8  | 54.1  | 55.7 |   |   |   |   |   |
| 100707. 4/M2             | 630   | 57.3  | 54.1  | 54.8  | 54.2  | 58.6  | 57.2  | 57.8  | 57.5  | 57.4  | 54.0  | 55.8 |   |   |   |   |   |
| 30. REC F                | 800   | 56.8  | 52.0  | 53.2  | 54.9  | 55.7  | 54.9  | 57.8  | 54.2  | 54.8  | 54.9  | 53.3 |   |   |   |   |   |
| 1277. REC F              | 1000  | 57.7  | 53.5  | 55.0  | 54.7  | 57.4  | 58.7  | 60.0  | 59.0  | 58.7  | 58.9  | 52.8 |   |   |   |   |   |
| 35. REC F                | 1250  | 55.3  | 51.6  | 52.4  | 57.3  | 58.9  | 54.1  | 54.2  | 59.4  | 58.3  | 54.2  | 58.4 |   |   |   |   |   |
| 1275. REC F              | 1400  | 49.4  | 50.7  | 52.7  | 54.8  | 54.8  | 58.2  | 59.3  | 54.8  | 58.6  | 54.9  | 49.5 |   |   |   |   |   |
| 4-24 CM/3                | 2000  | 44.5  | 49.8  | 51.8  | 53.9  | 55.7  | 57.8  | 58.8  | 54.8  | 58.4  | 54.7  | 47.9 |   |   |   |   |   |
| 1.00425 46/M2            | 2400  | 52.2  | 53.1  | 55.8  | 57.7  | 63.3  | 62.4  | 64.4  | 66.4  | 66.4  | 60.1  | 51.1 |   |   |   |   |   |
| 7707. RPM                | 3100  | 50.3  | 52.2  | 54.7  | 59.1  | 61.6  | 63.0  | 63.7  | 63.9  | 63.0  | 54.3  | 47.4 |   |   |   |   |   |
| 1 813. 00-1/5FC          | 4300  | 48.4  | 53.7  | 54.6  | 57.6  | 63.6  | 64.4  | 67.4  | 68.3  | 68.5  | 54.1  | 48.9 |   |   |   |   |   |
| 7921. RPM                | 4400  | 54.6  | 57.9  | 48.9  | 64.4  | 69.2  | 71.2  | 73.1  | 73.8  | 69.8  | 63.5  | 52.8 |   |   |   |   |   |
| 1 829. 00C/SEC           | 6300  | 49.7  | 52.6  | 54.4  | 60.0  | 63.7  | 64.9  | 69.4  | 67.4  | 65.8  | 57.9  | 48.9 |   |   |   |   |   |
| 8023. RPM                | 8000  | 44.4  | 51.9  | 54.8  | 64.4  | 62.6  | 66.2  | 69.3  | 66.4  | 66.2  | 57.5  | 45.4 |   |   |   |   |   |
| 1 924. 00-1/5FC          | 10000 | 46.7  | 50.1  | 53.7  | 58.8  | 62.5  | 65.3  | 67.7  | 67.1  | 64.1  | 55.1  | 42.8 |   |   |   |   |   |
| NO. OF BLADES 15         | 12500 | 45.8  | 47.2  | 51.2  | 54.3  | 59.4  | 63.6  | 65.3  | 65.3  | 62.1  | 52.1  | 38.4 |   |   |   |   |   |
| FAN TIP SPEED            | 14000 | 41.3  | 44.7  | 49.1  | 55.7  | 59.1  | 62.8  | 63.3  | 63.8  | 59.8  | 48.1  | 32.8 |   |   |   |   |   |
| 670. FT/SEC              | 24000 | 34.7  | 39.5  | 43.8  | 50.2  | 53.9  | 57.1  | 58.8  | 57.5  | 52.7  | 40.5  | 22.7 |   |   |   |   |   |
|                          | 31500 | 24.4  | 33.4  | 38.7  | 45.3  | 49.5  | 51.8  | 53.8  | 52.5  | 47.2  | 33.8  | 18.7 |   |   |   |   |   |
|                          | 40000 | 18.3  | 24.8  | 30.8  | 37.3  | 40.7  | 43.2  | 45.3  | 43.8  | 37.4  | 28.8  |      |   |   |   |   |   |
|                          | 50000 | 4.1   | 12.3  | 18.2  | 25.8  | 29.5  | 32.5  | 32.5  | 30.1  | 21.3  | 1.3   |      |   |   |   |   |   |
|                          | 60000 |       |       |       | 7.3   | 11.1  | 13.9  | 13.7  | 8.6   |       |       |      |   |   |   |   |   |
| OVERALL CALCULATION      | 64.6  | 64.4  | 64.5  | 72.8  | 74.4  | 76.6  | 76.5  | 76.1  | 76.3  | 71.3  | 64.7  |      |   |   |   |   |   |
|                          | 77.1  | 79.7  | 82.3  | 86.7  | 89.2  | 91.2  | 93.8  | 92.8  | 90.7  | 88.8  | 76.5  |      |   |   |   |   |   |

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OF POOR QUALITY





|                           | FR     | 67     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 144  | 0   | 0   | 0   | 0   | 0   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|
|                           | (0.02) | (1.05) | (1.54) | (1.41) | (1.54) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0) |
| SIDELINE 200. FT.         | 50     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| ( 60.96 M)                | 60     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| VEHICLE R-55              | 100    | 44.6   | 44.9   | 50.6   | 51.5   | 52.3   | 52.9   | 52.7   | 52.1   | 54.0   | 57.0   | 57.5 |     |     |     |     |     |
| CONFIG 75-1D              | 125    | 52.3   | 54.3   | 54.7   | 54.6   | 55.7   | 55.6   | 56.6   | 57.5   | 57.2   | 57.2   | 56.9 |     |     |     |     |     |
| LOC SCHELECTARY           | 160    | 56.7   | 57.2   | 57.2   | 54.3   | 54.4   | 54.8   | 56.2   | 56.7   | 57.8   | 58.5   | 56.9 |     |     |     |     |     |
| DATE 1/17/75              | 200    | 49.6   | 50.6   | 52.1   | 53.7   | 55.3   | 57.2   | 57.2   | 58.1   | 58.2   | 59.1   | 57.2 |     |     |     |     |     |
| RUN 5377                  | 250    | 54.3   | 54.3   | 57.2   | 58.4   | 59.2   | 59.8   | 60.8   | 61.2   | 60.3   | 60.2   | 57.0 |     |     |     |     |     |
| TAPE                      | 314    | 54.1   | 54.0   | 56.9   | 58.1   | 58.2   | 58.8   | 59.8   | 58.1   | 57.7   | 57.8   | 55.2 |     |     |     |     |     |
| BAR 26.8 MG               | 400    | 52.8   | 53.9   | 55.1   | 56.0   | 56.1   | 56.7   | 57.8   | 57.3   | 57.4   | 57.4   | 54.5 |     |     |     |     |     |
| (00757. M/HZ)             | 500    | 50.2   | 51.8   | 53.7   | 54.0   | 55.5   | 56.1   | 57.5   | 57.9   | 57.7   | 58.8   | 53.0 |     |     |     |     |     |
| TAMB 49. DEG F            | 600    | 52.3   | 53.9   | 55.4   | 57.1   | 57.4   | 59.0   | 60.2   | 59.5   | 58.6   | 58.6   | 52.5 |     |     |     |     |     |
| (277. DEG M)              | 800    | 52.2   | 54.8   | 55.0   | 56.5   | 57.3   | 58.2   | 59.5   | 59.2   | 58.4   | 56.6   | 51.2 |     |     |     |     |     |
| THET 35. DEG F            | 1000   | 50.1   | 51.9   | 52.8   | 54.8   | 55.7   | 57.3   | 58.9   | 59.5   | 58.3   | 55.7   | 50.1 |     |     |     |     |     |
| (275. DEG M)              | 1200   | 47.4   | 50.0   | 52.5   | 54.3   | 56.1   | 58.2   | 59.3   | 58.8   | 58.3   | 55.2   | 49.8 |     |     |     |     |     |
| MACT 4.24 GM/M3           | 1600   | 49.2   | 52.1   | 51.3   | 53.6   | 54.9   | 56.8   | 58.1   | 58.6   | 58.4   | 54.2   | 47.6 |     |     |     |     |     |
| (.60424 KG/M3)            | 2000   | 51.5   | 54.9   | 55.1   | 57.5   | 58.8   | 62.1   | 63.9   | 64.2   | 66.1   | 60.1   | 56.9 |     |     |     |     |     |
| NFA 7762. RPM             | 2500   | 50.0   | 52.2   | 54.0   | 58.4   | 61.1   | 62.7   | 63.2   | 63.4   | 63.9   | 58.0   | 47.7 |     |     |     |     |     |
| ( 813. RAD/SEC)           | 3100   | 50.4   | 53.4   | 55.9   | 60.4   | 63.4   | 66.7   | 67.8   | 68.1   | 68.5   | 58.1   | 48.2 |     |     |     |     |     |
| NFK 7916. RPM             | 4000   | 54.3   | 57.4   | 61.4   | 65.4   | 68.5   | 70.7   | 72.8   | 72.5   | 70.4   | 67.5   | 52.5 |     |     |     |     |     |
| ( 829. RAD/SEC)           | 5000   | 49.5   | 51.9   | 55.6   | 59.0   | 63.4   | 66.7   | 68.3   | 67.9   | 65.0   | 57.6   | 46.9 |     |     |     |     |     |
| NFD 8823. RPM             | 6100   | 48.2   | 51.1   | 55.0   | 58.9   | 62.4   | 66.0   | 69.3   | 68.2   | 65.7   | 55.0   | 44.9 |     |     |     |     |     |
| ( 924. RAD/SEC)           | 8000   | 46.7   | 49.3   | 53.4   | 58.8   | 61.7   | 65.5   | 67.2   | 67.4   | 64.4   | 54.3   | 42.9 |     |     |     |     |     |
| NO. OF BLADES 15          | 10000  | 47.3   | 46.7   | 50.4   | 58.1   | 59.6   | 63.1   | 65.1   | 65.6   | 62.1   | 52.1   | 38.1 |     |     |     |     |     |
| FAN TIP SPEED 678. FT/SEC | 12500  | 41.8   | 44.9   | 49.2   | 55.2   | 59.6   | 62.3   | 62.8   | 63.0   | 59.8   | 48.1   | 33.1 |     |     |     |     |     |
|                           | 16000  | 34.9   | 38.8   | 43.3   | 49.9   | 53.9   | 56.1   | 58.3   | 57.8   | 52.5   | 40.2   | 21.9 |     |     |     |     |     |
|                           | 20000  | 27.9   | 32.9   | 38.4   | 45.3   | 49.9   | 51.6   | 53.1   | 53.0   | 47.7   | 32.8   | 10.2 |     |     |     |     |     |
|                           | 25000  | 18.3   | 24.1   | 29.8   | 36.6   | 40.4   | 43.2   | 45.0   | 44.8   | 37.7   | 19.8   |      |     |     |     |     |     |
|                           | 31500  | 3.9    | 10.8   | 17.7   | 25.1   | 29.3   | 31.7   | 32.8   | 29.9   | 21.6   | 0.8    |      |     |     |     |     |     |
|                           | 40000  |        |        |        | 6.5    | 11.1   | 13.4   | 13.7   | 8.6    |        |        |      |     |     |     |     |     |
|                           | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                           | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                           | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| OVERALL CALCULATOR        |        | 54.3   | 66.7   | 68.4   | 71.5   | 73.8   | 76.4   | 78.2   | 77.9   | 76.3   | 70.9   | 66.5 |     |     |     |     |     |
| PNCB                      |        | 76.9   | 79.7   | 82.5   | 86.0   | 88.5   | 90.9   | 92.7   | 92.5   | 90.9   | 84.4   | 76.2 |     |     |     |     |     |



MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. DAY  
 PROC. DATE - MONTH 3 DAY 11 MR. 15.0  
 ANGLES FROM INLET IN DEGREES (AND VARIANS)

PRC. 51. 62. 71. 81. 91. 101. 111. 122. 133. 145. 156. 0. 0. 0. 0. 0. 0.  
 (1.02) (1.08) (1.24) (1.41) (1.58) (1.75) (1.94) (2.13) (2.32) (2.52) (2.73) (0. 0. 0. 0. 0. 0.)

| PARAMETER                 | 51    | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 156  | 0    | 0 | 0 | 0 | 0 | 0 |
|---------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|
| SIDE LINE 200. FT.        | 63    |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| VEHICLE 100707. H/1121    | 100   | 49.3 | 53.0 | 54.6 | 59.0 | 59.7 | 48.4 | 54.8 | 46.7 | 48.4 | 49.0 | 47.6 |   |   |   |   |   |
| CONFIG 160                | 175   | 43.3 | 45.6 | 49.2 | 47.7 | 48.9 | 44.6 | 45.0 | 48.3 | 47.2 | 45.3 | 44.9 |   |   |   |   |   |
| LOC SCHEMECTADV           | 200   | 41.1 | 42.8 | 43.4 | 44.4 | 44.6 | 44.5 | 45.9 | 47.0 | 47.1 | 46.4 | 44.9 |   |   |   |   |   |
| DATE 1/17/75              | 250   | 40.3 | 41.2 | 42.6 | 44.0 | 45.7 | 47.2 | 47.6 | 48.7 | 47.6 | 47.5 | 46.0 |   |   |   |   |   |
| RUN 5378                  | 315   | 43.4 | 44.8 | 46.5 | 47.7 | 49.1 | 48.6 | 49.0 | 49.1 | 47.4 | 44.1 | 44.3 |   |   |   |   |   |
| TAPE                      | 400   | 44.6 | 45.5 | 47.1 | 48.5 | 48.6 | 49.0 | 48.0 | 48.0 | 47.0 | 45.8 | 43.3 |   |   |   |   |   |
| BAR 29.8 HG               | 500   | 42.2 | 43.9 | 45.1 | 46.3 | 45.5 | 47.4 | 47.3 | 47.4 | 46.3 | 45.3 | 42.1 |   |   |   |   |   |
| TAMP 39. DEG F            | 600   | 41.4 | 43.3 | 44.7 | 46.0 | 46.4 | 47.4 | 48.4 | 48.5 | 47.5 | 44.9 | 41.9 |   |   |   |   |   |
| T-PT 35. DEG F            | 800   | 43.6 | 45.3 | 46.0 | 47.3 | 48.2 | 49.7 | 50.2 | 50.7 | 49.9 | 47.5 | 41.3 |   |   |   |   |   |
| MACT 4.24 G/M3            | 1000  | 42.5 | 42.2 | 43.6 | 45.0 | 47.1 | 49.5 | 50.8 | 52.1 | 51.5 | 48.6 | 40.2 |   |   |   |   |   |
| NFA 5443. RPM             | 1200  | 39.1 | 40.4 | 41.8 | 44.2 | 45.6 | 48.0 | 49.2 | 50.0 | 49.1 | 47.1 | 37.7 |   |   |   |   |   |
| NFR 5551. RPM             | 1400  | 37.7 | 39.7 | 41.6 | 44.3 | 45.7 | 48.1 | 49.5 | 50.5 | 51.1 | 48.3 | 39.4 |   |   |   |   |   |
| NFD 823. RPM              | 1600  | 44.2 | 47.3 | 51.4 | 57.0 | 55.8 | 57.9 | 59.3 | 61.0 | 61.0 | 56.7 | 46.5 |   |   |   |   |   |
| NO. OF BLADES 15          | 1800  | 43.1 | 46.2 | 49.6 | 52.2 | 55.1 | 58.4 | 59.8 | 60.2 | 59.2 | 59.0 | 43.7 |   |   |   |   |   |
| FAN TIP SPEED 475. FT/SEC | 2000  | 44.3 | 47.5 | 50.1 | 53.7 | 57.1 | 60.2 | 62.0 | 62.9 | 61.3 | 55.5 | 44.1 |   |   |   |   |   |
|                           | 2500  | 39.4 | 41.9 | 45.1 | 48.9 | 52.1 | 56.4 | 59.4 | 58.0 | 56.0 | 50.7 | 39.2 |   |   |   |   |   |
|                           | 3150  | 38.1 | 40.9 | 44.0 | 47.7 | 51.3 | 55.5 | 57.2 | 58.0 | 56.5 | 49.7 | 37.4 |   |   |   |   |   |
|                           | 4000  | 35.6 | 39.9 | 42.7 | 47.1 | 50.4 | 54.3 | 56.3 | 56.2 | 54.8 | 47.2 | 34.4 |   |   |   |   |   |
|                           | 5000  | 37.8 | 41.8 | 45.7 | 51.9 | 57.7 | 63.8 | 63.8 | 56.7 | 53.9 | 45.8 | 33.7 |   |   |   |   |   |
|                           | 6350  | 31.2 | 34.7 | 38.5 | 44.0 | 48.7 | 51.8 | 52.7 | 52.4 | 50.2 | 40.3 | 24.7 |   |   |   |   |   |
|                           | 8000  | 24.1 | 28.1 | 31.3 | 37.2 | 42.1 | 44.6 | 46.7 | 46.6 | 43.5 | 32.2 | 16.0 |   |   |   |   |   |
|                           | 10000 | 16.5 | 21.0 | 24.7 | 30.6 | 34.9 | 38.9 | 39.5 | 38.8 | 37.2 | 22.9 |      |   |   |   |   |   |
|                           | 12500 | 6.5  | 11.6 | 15.8 | 21.4 | 26.1 | 29.2 | 29.9 | 29.1 | 24.2 | 8.5  |      |   |   |   |   |   |
|                           | 15000 |      |      | 4.5  | 10.9 | 14.9 | 18.4 | 18.2 | 16.5 | 9.3  |      |      |   |   |   |   |   |
| OVERALL CALCULATED        |       | 56.1 | 58.6 | 61.4 | 63.8 | 65.9 | 68.8 | 69.6 | 69.1 | 68.1 | 63.7 | 56.2 |   |   |   |   |   |
| PNDR                      |       | 67.3 | 70.1 | 72.9 | 75.8 | 78.6 | 81.6 | 83.0 | 83.3 | 82.1 | 77.3 | 67.6 |   |   |   |   |   |

|                           | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIANS) |            |            |            |            |             |             |             |             |             |             |             |             |             |             |       | PWL |
|---------------------------|-------|--|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|-----|
|                           |       | 53. (0.92)                                 | 62. (1.08) | 71. (1.24) | 81. (1.41) | 91. (1.58) | 101. (1.76) | 111. (1.94) | 122. (2.13) | 133. (2.32) | 145. (2.52) | 156. (2.73) | 168. (2.93) | 180. (3.14) | 192. (3.34) | 204. (3.54) |       |     |
| RADIAL 17. FT.            | 50    |  |            |            |            |            |             |             |             |             |             |             |             |             |             |             |       |     |
| 1 9. MI                   | 63    |  |            |            |            |            |             |             |             |             |             |             |             |             |             |             |       |     |
| VEHICLE R-55              | 100   | 72.2                                       | 73.7       | 77.7       | 80.5       | 80.0       | 79.4        | 76.3        | 70.2        | 70.7        | 74.8        | 77.2        |             |             |             |             | 111.3 |     |
| CONFIG 75-4E              | 125   | 66.7                                       | 68.2       | 72.4       | 68.7       | 71.0       | 68.4        | 68.0        | 71.5        | 72.5        | 72.0        | 74.7        |             |             |             |             | 100.8 |     |
| LOC SCHENECTADY           | 160   | 65.2                                       | 66.2       | 68.4       | 66.5       | 66.8       | 67.4        | 68.3        | 69.7        | 71.5        | 73.3        | 75.7        |             |             |             |             | 103.6 |     |
| DATE 1/27/75              | 200   | 63.5                                       | 64.4       | 64.9       | 66.2       | 67.3       | 69.1        | 70.0        | 72.0        | 72.7        | 75.0        | 76.6        |             |             |             |             | 104.7 |     |
| RUN 66/1                  | 250   | 67.2                                       | 67.4       | 65.6       | 68.7       | 69.0       | 69.9        | 71.3        | 72.0        | 72.7        | 73.7        | 75.1        |             |             |             |             | 105.0 |     |
| TAPE                      | 315   | 66.7                                       | 69.9       | 69.7       | 70.0       | 70.8       | 71.1        | 70.8        | 71.7        | 72.4        | 73.5        | 74.6        |             |             |             |             | 105.4 |     |
| BAR 29.9 HG               | 400   | 66.0                                       | 67.2       | 67.4       | 68.0       | 68.5       | 70.1        | 70.5        | 71.0        | 71.7        | 73.0        | 73.9        |             |             |             |             | 104.2 |     |
| (00867. N/M2)             | 500   | 65.0                                       | 66.4       | 66.9       | 67.7       | 68.3       | 69.9        | 71.5        | 72.5        | 72.9        | 73.5        | 73.9        |             |             |             |             | 104.7 |     |
| TAMB 41. DEG F            | 630   | 68.1                                       | 68.2       | 69.9       | 71.7       | 72.6       | 74.2        | 75.3        | 76.5        | 76.5        | 76.3        | 75.2        |             |             |             |             | 108.1 |     |
| (278. DEG K)              | 800   | 68.6                                       | 69.7       | 69.9       | 71.7       | 72.6       | 74.7        | 75.5        | 76.7        | 76.9        | 77.3        | 76.2        |             |             |             |             | 108.5 |     |
| TMET 37. DEG F            | 1000  | 67.1                                       | 68.9       | 69.4       | 71.7       | 73.3       | 75.7        | 77.2        | 78.7        | 79.2        | 78.5        | 73.9        |             |             |             |             | 109.8 |     |
| (1276. DEG K)             | 1250  | 72.3                                       | 72.5       | 74.1       | 77.3       | 77.9       | 80.7        | 81.5        | 82.7        | 83.5        | 83.8        | 77.9        |             |             |             |             | 114.3 |     |
| NACT 4.66 WH/MJ           | 1600  | 67.8                                       | 68.2       | 69.1       | 72.1       | 73.1       | 75.5        | 77.0        | 78.2        | 77.7        | 78.3        | 73.2        |             |             |             |             | 109.3 |     |
| (00466 KG/M3)             | 2000  | 64.1                                       | 65.3       | 66.1       | 68.4       | 69.4       | 71.2        | 72.7        | 75.5        | 77.5        | 77.6        | 72.7        |             |             |             |             | 107.1 |     |
| NFA 5434. RPM             | 2500  | 71.4                                       | 72.5       | 74.9       | 76.2       | 76.7       | 81.0        | 85.0        | 86.7        | 89.2        | 86.8        | 80.1        |             |             |             |             | 117.7 |     |
| (569. RAD/SEC)            | 3150  | 69.9                                       | 72.0       | 73.4       | 75.9       | 76.7       | 81.7        | 83.9        | 85.4        | 86.2        | 85.6        | 76.6        |             |             |             |             | 116.3 |     |
| NFK 5531. RPM             | 4000  | 70.3                                       | 73.0       | 74.6       | 77.4       | 81.2       | 84.0        | 85.4        | 87.4        | 87.4        | 88.0        | 79.6        |             |             |             |             | 117.6 |     |
| (579. RAD/SEC)            | 5000  | 68.8                                       | 70.5       | 72.5       | 75.7       | 78.9       | 82.2        | 84.8        | 86.0        | 85.9        | 84.0        | 77.3        |             |             |             |             | 116.3 |     |
| NFD 6823. RPM             | 6300  | 66.8                                       | 68.0       | 70.5       | 73.0       | 76.0       | 80.2        | 83.1        | 84.4        | 84.6        | 80.7        | 75.3        |             |             |             |             | 114.5 |     |
| (924. RAD/SEC)            | 8000  | 64.7                                       | 67.2       | 69.3       | 72.8       | 75.5       | 78.8        | 81.6        | 83.1        | 84.0        | 81.4        | 75.4        |             |             |             |             | 113.7 |     |
| NO. OF BLADES 15          | 10000 | 64.3                                       | 66.8       | 68.8       | 72.6       | 75.8       | 78.9        | 81.6        | 83.3        | 84.4        | 81.2        | 74.9        |             |             |             |             | 114.0 |     |
| FAN TIP SPEED 474. FT/SEC | 12500 | 63.5                                       | 65.5       | 67.4       | 71.2       | 74.5       | 77.6        | 80.5        | 82.9        | 83.6        | 80.3        | 73.8        |             |             |             |             | 113.4 |     |
|                           | 16000 | 61.6                                       | 63.6       | 65.1       | 68.4       | 71.9       | 75.8        | 78.1        | 81.7        | 82.3        | 77.9        | 72.3        |             |             |             |             | 112.8 |     |
|                           | 20000 | 61.1                                       | 62.9       | 64.8       | 68.8       | 71.8       | 74.9        | 78.0        | 81.1        | 83.3        | 77.9        | 71.6        |             |             |             |             | 112.5 |     |
|                           | 25000 | 60.1                                       | 61.9       | 63.9       | 68.0       | 71.1       | 73.7        | 76.1        | 78.6        | 79.5        | 75.6        | 69.3        |             |             |             |             | 110.6 |     |
|                           | 31500 | 59.5                                       | 60.8       | 63.2       | 67.6       | 70.1       | 73.9        | 75.8        | 78.3        | 79.4        | 75.5        | 68.1        |             |             |             |             | 111.2 |     |
|                           | 40000 | 58.8                                       | 59.3       | 61.2       | 64.7       | 67.3       | 70.8        | 73.1        | 75.1        | 75.9        | 72.3        | 62.9        |             |             |             |             | 109.5 |     |
|                           | 50000 | 59.6                                       | 59.1       | 61.1       | 61.4       | 63.9       | 67.0        | 69.7        | 69.7        | 71.8        | 68.7        | 59.2        |             |             |             |             | 107.2 |     |
|                           | 63000 | 60.9                                       | 58.5       | 60.2       | 59.2       | 59.5       | 62.0        | 63.7        | 63.8        | 64.9        | 62.6        | 57.1        |             |             |             |             | 104.8 |     |
|                           | 80000 | 62.9                                       | 63.6       | 60.6       | 59.3       | 58.5       | 59.4        | 59.6        | 59.1        | 59.8        | 58.3        | 56.3        |             |             |             |             | 107.1 |     |
| OVERALL MEASURED          |       |  |            |            |            |            |             |             |             |             |             |             |             |             |             |             |       |     |
| OVERALL CALCULATED        |       | 81.9                                       | 83.2       | 85.1       | 87.4       | 89.4       | 91.9        | 94.0        | 95.7        | 96.3        | 94.7        | 89.6        |             |             |             |             | 124.8 |     |
| PND8                      |       | 84.0                                       | 85.9       | 87.5       | 89.9       | 102.6      | 105.2       | 106.0       | 104.6       | 109.4       | 107.9       | 102.7       |             |             |             |             |       |     |

|                    | FREQ. | 53.     | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.  | 0.   | 0.   | 0.   | 0.   |
|--------------------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|------|------|------|------|
|                    |       | (1.092) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0. | 1(0. | 1(0. | 1(9. | 1(0. |
| SIDELINE 200. FT.  | 50    |         |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
| ( 60.96 M)         | 63    |         |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
| VEHICLE R=55       | 80    |         |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
| CONFIG 75-1E       | 100   | 48.5    | 51.0   | 55.6   | 58.8   | 58.5   | 57.7   | 54.1   | 47.2   | 46.3   | 48.2   | 47.1   |     |      |      |      |      |
| LCC SCHENECTADY    | 125   | 43.0    | 45.4   | 50.2   | 46.9   | 49.4   | 46.6   | 45.7   | 48.3   | 47.9   | 45.3   | 44.4   |     |      |      |      |      |
| DATE 1/27/75       | 160   | 41.4    | 43.3   | 44.2   | 44.6   | 45.1   | 45.5   | 45.9   | 46.5   | 46.8   | 46.4   | 45.2   |     |      |      |      |      |
| RUN 66/1           | 200   | 39.5    | 41.4   | 42.6   | 44.3   | 45.5   | 47.2   | 47.6   | 48.7   | 47.9   | 48.0   | 46.0   |     |      |      |      |      |
| TAPE               | 250   | 43.1    | 44.3   | 46.2   | 46.7   | 47.1   | 47.8   | 48.7   | 48.6   | 47.8   | 46.8   | 44.3   |     |      |      |      |      |
| BAR 29.9 HG        | 315   | 44.6    | 46.8   | 47.4   | 47.9   | 48.8   | 49.0   | 48.1   | 48.2   | 47.5   | 46.3   | 43.5   |     |      |      |      |      |
| (100667. N/M2)     | 400   | 41.7    | 43.9   | 44.8   | 45.8   | 46.5   | 47.9   | 47.8   | 47.4   | 46.6   | 45.8   | 42.6   |     |      |      |      |      |
| TAMB 41. DEG F     | 500   | 40.6    | 43.1   | 44.2   | 45.5   | 46.2   | 47.6   | 48.7   | 48.6   | 47.7   | 45.9   | 42.3   |     |      |      |      |      |
| (278. DEG K)       | 630   | 43.5    | 44.7   | 47.1   | 49.4   | 50.3   | 51.8   | 52.3   | 52.6   | 51.1   | 48.5   | 43.3   |     |      |      |      |      |
| T-ET 37. DEG F     | 800   | 43.9    | 46.1   | 47.0   | 49.3   | 50.2   | 52.2   | 52.5   | 52.7   | 51.4   | 49.3   | 42.0   |     |      |      |      |      |
| (276. DEG K)       | 1000  | 42.2    | 45.2   | 46.4   | 49.1   | 50.8   | 53.8   | 54.1   | 54.6   | 53.5   | 50.3   | 41.4   |     |      |      |      |      |
| HACT 4.66 CM/H3    | 1250  | 47.3    | 48.5   | 51.0   | 54.6   | 55.2   | 57.9   | 58.2   | 58.4   | 57.6   | 55.4   | 45.1   |     |      |      |      |      |
| (.00466 KG/H3)     | 1600  | 42.6    | 44.1   | 45.8   | 49.2   | 50.4   | 52.5   | 53.5   | 53.7   | 51.6   | 49.6   | 37.9   |     |      |      |      |      |
| NFA 5434. RPM      | 2000  | 38.7    | 40.9   | 42.6   | 45.3   | 46.5   | 48.1   | 49.0   | 50.8   | 51.1   | 48.5   | 38.9   |     |      |      |      |      |
| ( 569. RAD/SEC)    | 2500  | 45.7    | 48.0   | 51.2   | 52.9   | 55.6   | 57.7   | 61.1   | 61.8   | 62.6   | 57.5   | 46.0   |     |      |      |      |      |
| NFK 5531. RPM      | 3150  | 43.8    | 47.2   | 49.3   | 52.4   | 55.3   | 58.2   | 59.8   | 60.2   | 59.2   | 55.7   | 43.7   |     |      |      |      |      |
| ( 579. RAD/SEC)    | 4000  | 43.8    | 47.7   | 50.1   | 53.5   | 57.4   | 59.9   | 60.7   | 61.6   | 59.8   | 55.5   | 43.6   |     |      |      |      |      |
| MFD 8823. RPM      | 5000  | 41.9    | 44.9   | 47.8   | 51.4   | 54.8   | 57.9   | 59.9   | 60.0   | 57.9   | 53.0   | 40.6   |     |      |      |      |      |
| ( 924. RAD/SEC)    | 6300  | 39.1    | 41.7   | 45.0   | 48.1   | 51.3   | 55.2   | 57.4   | 57.5   | 55.7   | 48.4   | 36.9   |     |      |      |      |      |
| NO. OF BLADES 15   | 8000  | 35.6    | 39.6   | 42.7   | 46.8   | 49.6   | 52.8   | 54.8   | 54.9   | 53.6   | 47.2   | 34.2   |     |      |      |      |      |
| FAN TIP SPEED      | 10000 | 33.2    | 37.5   | 40.6   | 45.1   | 48.5   | 51.3   | 53.2   | 53.4   | 51.8   | 44.3   | 29.7   |     |      |      |      |      |
| ( 474. FT/SEC)     | 12500 | 29.6    | 33.7   | 36.9   | 41.4   | 44.9   | 47.7   | 49.7   | 50.3   | 47.9   | 39.5   | 22.9   |     |      |      |      |      |
|                    | 16000 | 23.1    | 27.8   | 30.7   | 34.9   | 38.8   | 42.3   | 43.4   | 44.8   | 41.7   | 30.6   | 11.9   |     |      |      |      |      |
|                    | 20000 | 16.5    | 21.4   | 25.4   | 30.6   | 33.9   | 38.6   | 38.2   | 38.5   | 38.9   | 22.2   |        |     |      |      |      |      |
|                    | 25000 | 6.8     | 12.7   | 17.3   | 22.9   | 26.4   | 28.5   | 29.0   | 27.9   | 22.7   | 7.8    |        |     |      |      |      |      |
|                    | 31500 |         | 0.2    | 6.1    | 12.5   | 15.5   | 18.5   | 17.8   | 15.8   | 8.6    |        |        |     |      |      |      |      |
|                    | 40000 |         |        |        |        |        | 0.4    |        |        |        |        |        |     |      |      |      |      |
|                    | 50000 |         |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
|                    | 63000 |         |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
|                    | 80000 |         |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
| OVERALL CALCULATED |       | 56.5    | 58.8   | 61.6   | 64.1   | 65.8   | 67.7   | 68.9   | 69.3   | 68.4   | 64.4   | 56.5   |     |      |      |      |      |
| PNDB               |       | 67.9    | 78.7   | 73.2   | 76.1   | 76.9   | 81.4   | 82.5   | 83.8   | 82.4   | 78.8   | 67.8   |     |      |      |      |      |

|                    |       | 53.     | 62.     | 71.     | 81.     | 91.     | 101.    | 111.    | 122.    | 133.    | 145.    | 156.    | 0.  | 0. | 0. | 0. | 0. | PWL   |
|--------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|----|----|----|----|-------|
|                    | FREQ. | (10.92) | (11.08) | (11.24) | (11.41) | (11.58) | (11.76) | (11.94) | (12.13) | (12.32) | (12.52) | (12.73) | (0. | 0. | 0. | 0. | 0. | PWL   |
|                    |       | 50      | 63      | 80      |         |         |         |         |         |         |         |         |     |    |    |    |    |       |
| RADIAL 17. FT.     |       |         |         |         |         |         |         |         |         |         |         |         |     |    |    |    |    |       |
| ( 5. M)            | 100   | 74.0    | 75.9    | 74.1    | 72.9    | 70.6    | 70.2    | 70.4    | 70.9    | 73.0    | 76.8    | 79.9    |     |    |    |    |    | 108.1 |
| VEHICLE R-55       | 125   | 68.8    | 70.6    | 73.1    | 70.7    | 71.9    | 71.2    | 71.1    | 74.2    | 75.0    | 77.1    | 79.4    |     |    |    |    |    | 107.7 |
| CONFIG 75-1E       | 160   | 69.3    | 69.9    | 69.4    | 69.9    | 73.1    | 70.2    | 72.4    | 72.9    | 75.2    | 77.8    | 80.1    |     |    |    |    |    | 107.5 |
| LOC SCHENECTADY    | 200   | 68.3    | 68.4    | 69.4    | 69.4    | 71.4    | 73.6    | 73.6    | 75.9    | 77.0    | 79.6    | 81.1    |     |    |    |    |    | 109.0 |
| DATE 1/27/75       | 250   | 70.5    | 71.1    | 72.1    | 72.1    | 72.6    | 73.6    | 75.1    | 75.4    | 76.5    | 78.3    | 79.6    |     |    |    |    |    | 108.0 |
| RUN 66/2           | 315   | 72.5    | 73.6    | 73.9    | 73.4    | 74.1    | 74.7    | 74.8    | 75.4    | 76.2    | 78.1    | 79.1    |     |    |    |    |    | 109.3 |
| TAPE               | 400   | 70.6    | 70.4    | 71.4    | 71.4    | 71.9    | 73.7    | 74.1    | 75.1    | 75.7    | 77.8    | 79.3    |     |    |    |    |    | 108.4 |
| BAR 29.9 HG        | 500   | 68.6    | 68.9    | 69.9    | 70.7    | 71.6    | 73.7    | 74.6    | 75.2    | 76.2    | 77.6    | 78.4    |     |    |    |    |    | 108.1 |
| (00867. N/M2)      | 630   | 71.1    | 71.4    | 72.6    | 74.2    | 75.2    | 76.9    | 78.4    | 79.4    | 79.0    | 79.6    | 77.9    |     |    |    |    |    | 111.0 |
| TAMB 40. DEG F     | 800   | 71.9    | 72.4    | 72.6    | 74.2    | 75.4    | 76.9    | 78.1    | 79.1    | 80.0    | 80.1    | 77.4    |     |    |    |    |    | 111.1 |
| (278. DEG K)       | 1000  | 69.9    | 71.4    | 71.9    | 74.2    | 75.6    | 76.4    | 79.6    | 80.6    | 81.2    | 81.1    | 76.8    |     |    |    |    |    | 112.1 |
| THEY 37. DEG F     | 1250  | 70.2    | 70.4    | 72.4    | 74.5    | 76.4    | 76.5    | 80.1    | 81.1    | 82.0    | 82.1    | 78.9    |     |    |    |    |    | 112.6 |
| (274. DEG K)       | 1600  | 72.4    | 72.7    | 74.9    | 77.0    | 79.2    | 81.5    | 81.6    | 82.4    | 84.0    | 87.1    | 78.9    |     |    |    |    |    | 115.3 |
| MACT 4.96 GM/M3    | 2000  | 68.7    | 69.2    | 73.6    | 72.1    | 73.5    | 75.0    | 75.8    | 76.4    | 80.7    | 80.1    | 74.9    |     |    |    |    |    | 110.2 |
| (.00496 KG/M3)     | 2500  | 70.4    | 72.7    | 73.9    | 76.1    | 78.0    | 81.0    | 81.6    | 84.4    | 87.0    | 83.6    | 78.1    |     |    |    |    |    | 115.5 |
| NFA 6222. RPM      | 3150  | 74.7    | 77.0    | 78.6    | 81.9    | 84.3    | 87.5    | 89.0    | 91.1    | 93.2    | 90.1    | 83.6    |     |    |    |    |    | 122.6 |
| ( 651. RAD/SEC)    | 4000  | 73.1    | 75.4    | 77.5    | 81.4    | 84.0    | 86.5    | 88.4    | 89.0    | 89.4    | 86.6    | 80.5    |     |    |    |    |    | 119.9 |
| NFK 6339. RPM      | 5000  | 73.3    | 75.4    | 77.7    | 81.1    | 83.2    | 87.2    | 88.4    | 90.2    | 90.4    | 86.6    | 80.4    |     |    |    |    |    | 120.4 |
| ( 664. RAD/SEC)    | 6300  | 70.4    | 72.5    | 74.4    | 78.5    | 80.6    | 84.4    | 87.4    | 88.0    | 88.6    | 84.3    | 78.3    |     |    |    |    |    | 118.5 |
| NFD 8823. RPM      | 8000  | 68.5    | 71.1    | 73.5    | 77.2    | 79.5    | 83.3    | 85.7    | 87.5    | 87.0    | 83.7    | 77.6    |     |    |    |    |    | 117.5 |
| ( 924. RAD/SEC)    | 10000 | 68.3    | 71.2    | 74.0    | 78.0    | 80.3    | 83.7    | 85.7    | 87.7    | 88.6    | 84.5    | 78.0    |     |    |    |    |    | 118.2 |
| NO. OF BLADES 15   | 12500 | 68.3    | 69.9    | 72.1    | 76.1    | 78.8    | 82.3    | 84.3    | 87.5    | 87.8    | 83.1    | 76.8    |     |    |    |    |    | 117.5 |
| FAN TIP SPEED      | 16000 | 65.3    | 67.2    | 69.5    | 73.8    | 76.4    | 79.7    | 82.6    | 85.6    | 86.1    | 80.9    | 75.2    |     |    |    |    |    | 115.9 |
| 543. FT/SEC        | 20000 | 65.4    | 66.5    | 69.0    | 73.4    | 75.8    | 79.6    | 82.0    | 84.9    | 87.5    | 81.9    | 75.4    |     |    |    |    |    | 116.6 |
|                    | 25000 | 64.7    | 66.6    | 68.1    | 72.7    | 74.9    | 78.4    | 80.9    | 83.2    | 84.8    | 79.4    | 73.2    |     |    |    |    |    | 115.3 |
|                    | 31500 | 64.3    | 66.0    | 68.4    | 72.5    | 74.9    | 78.4    | 80.4    | 82.7    | 83.6    | 79.3    | 71.5    |     |    |    |    |    | 115.6 |
|                    | 40000 | 64.1    | 64.7    | 66.1    | 70.2    | 72.1    | 76.1    | 78.2    | 79.5    | 80.9    | 76.7    | 67.4    |     |    |    |    |    | 114.3 |
|                    | 50000 | 66.6    | 65.7    | 66.6    | 67.7    | 69.0    | 72.1    | 74.8    | 75.0    | 76.3    | 73.1    | 64.8    |     |    |    |    |    | 112.4 |
|                    | 63000 | 68.2    | 65.6    | 67.4    | 66.3    | 66.5    | 68.7    | 69.2    | 69.6    | 69.1    | 68.1    | 64.7    |     |    |    |    |    | 110.0 |
|                    | 80000 | 72.0    | 68.1    | 70.6    | 67.6    | 67.6    | 68.6    | 68.7    | 67.8    | 66.5    | 67.1    | 65.7    |     |    |    |    |    | 115.5 |
| OVERALL MEASURED   |       |         |         |         |         |         |         |         |         |         |         |         |     |    |    |    |    |       |
| OVERALL CALCULATED |       | 85.1    | 86.3    | 87.6    | 90.3    | 92.4    | 95.4    | 97.2    | 99.9    | 100.0   | 92.2    | 92.9    |     |    |    |    |    | 120.3 |
| PWDB               |       | 97.6    | 99.4    | 101.0   | 103.7   | 105.7   | 108.6   | 110.1   | 111.6   | 113.3   | 111.1   | 105.9   |     |    |    |    |    |       |

| FREQ.              | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
|                    | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 1(0. | 1(0. | 1(0. | 1(0. | 1(0. |
| SIDELINE 200. FT.  |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| ( 80.96 M)         |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| VEHICLE R-55       | 100    | 50.4   | 53.2   | 52.1   | 51.2   | 49.0   | 48.4   | 48.2   | 47.8   | 46.5   | 50.3   | 49.6 |      |      |      |      |      |
| CONFIC 75-1E       | 125    | 45.0   | 47.8   | 51.0   | 48.9   | 50.2   | 49.3   | 48.8   | 51.0   | 50.4   | 50.4   | 49.1 |      |      |      |      |      |
| LOC SCHENECTADY    | 160    | 45.4   | 47.0   | 47.2   | 48.1   | 48.4   | 48.3   | 50.0   | 49.7   | 50.6   | 51.0   | 49.6 |      |      |      |      |      |
| DATE 1/27/75       | 200    | 44.3   | 45.4   | 47.1   | 47.5   | 49.6   | 51.7   | 51.2   | 52.6   | 52.2   | 52.6   | 50.4 |      |      |      |      |      |
| RUN 66/2           | 250    | 46.5   | 48.0   | 49.7   | 50.1   | 50.7   | 51.6   | 52.6   | 52.0   | 51.6   | 51.2   | 48.7 |      |      |      |      |      |
| TAPE               | 315    | 48.4   | 50.5   | 51.4   | 51.3   | 52.2   | 52.5   | 52.2   | 51.9   | 51.2   | 50.8   | 48.0 |      |      |      |      |      |
| BAR 29.9 HG        | 400    | 46.3   | 47.1   | 48.0   | 49.2   | 49.8   | 51.4   | 51.4   | 51.5   | 50.6   | 50.4   | 48.0 |      |      |      |      |      |
| (100867. N/H2)     | 500    | 44.2   | 45.5   | 47.2   | 48.4   | 49.5   | 51.4   | 51.8   | 51.4   | 51.0   | 50.0   | 46.8 |      |      |      |      |      |
| TAMB 40. DEC F     | 630    | 46.6   | 47.9   | 49.9   | 51.8   | 52.9   | 54.5   | 55.4   | 55.5   | 53.6   | 51.8   | 48.0 |      |      |      |      |      |
| (1278. DEC K)      | 800    | 47.2   | 48.8   | 49.7   | 51.7   | 53.0   | 54.4   | 55.0   | 55.2   | 54.4   | 52.1   | 45.2 |      |      |      |      |      |
| TMET 37. DEC F     | 1000   | 45.1   | 47.6   | 48.8   | 51.6   | 53.2   | 55.8   | 56.4   | 56.7   | 55.5   | 52.9   | 44.4 |      |      |      |      |      |
| (1276. DEC K)      | 1250   | 45.2   | 48.5   | 49.2   | 51.8   | 53.8   | 55.7   | 56.8   | 56.6   | 56.1   | 53.7   | 44.0 |      |      |      |      |      |
| HACT 4.96 CM/H3    | 1600   | 47.2   | 48.6   | 51.5   | 54.1   | 56.4   | 58.5   | 58.1   | 57.9   | 57.9   | 56.4   | 45.6 |      |      |      |      |      |
| (1.00496 KG/H3)    | 2000   | 43.2   | 44.9   | 47.1   | 49.0   | 50.5   | 51.9   | 52.1   | 53.7   | 54.4   | 51.1   | 41.1 |      |      |      |      |      |
| NPA 6222. RPM      | 2500   | 44.7   | 48.2   | 50.1   | 52.8   | 54.9   | 57.7   | 57.9   | 59.4   | 60.4   | 54.3   | 43.9 |      |      |      |      |      |
| ( 651. RAD/SEC)    | 3150   | 48.6   | 52.1   | 54.6   | 58.3   | 60.9   | 63.9   | 64.6   | 65.8   | 66.2   | 60.3   | 48.7 |      |      |      |      |      |
| NFK 6339. RPM      | 4000   | 46.6   | 50.1   | 53.1   | 57.4   | 60.2   | 62.4   | 63.8   | 63.3   | 61.8   | 56.0   | 44.5 |      |      |      |      |      |
| ( 664. RAD/SEC)    | 5000   | 46.5   | 49.8   | 53.0   | 56.9   | 59.2   | 62.9   | 63.5   | 64.1   | 62.4   | 55.5   | 43.8 |      |      |      |      |      |
| NFD 8823. RPM      | 6300   | 42.6   | 46.1   | 49.8   | 53.6   | 55.8   | 59.4   | 61.8   | 61.1   | 59.7   | 52.0   | 39.8 |      |      |      |      |      |
| ( 924. RAD/SEC)    | 8000   | 39.4   | 43.5   | 46.9   | 51.2   | 53.7   | 57.2   | 58.9   | 59.3   | 56.6   | 49.5   | 38.3 |      |      |      |      |      |
| NO. OF BLADES 15   | 10000  | 37.2   | 41.9   | 45.8   | 50.5   | 53.0   | 56.8   | 57.3   | 57.8   | 56.1   | 47.6   | 32.8 |      |      |      |      |      |
| PAN TIP SPEED      | 12500  | 34.4   | 38.1   | 41.8   | 46.3   | 49.2   | 52.5   | 53.5   | 55.8   | 52.2   | 42.3   | 25.8 |      |      |      |      |      |
| 543. FT/SEC        | 16000  | 28.8   | 31.1   | 35.2   | 39.6   | 43.3   | 46.2   | 47.9   | 48.7   | 45.4   | 33.6   | 14.8 |      |      |      |      |      |
|                    | 20000  | 20.7   | 25.1   | 29.6   | 35.2   | 37.9   | 41.3   | 42.2   | 42.4   | 40.1   | 26.2   | 2.7  |      |      |      |      |      |
|                    | 25000  | 11.4   | 17.4   | 21.6   | 27.6   | 30.2   | 33.2   | 33.8   | 32.6   | 28.0   | 11.6   |      |      |      |      |      |      |
|                    | 31500  |        | 5.4    | 11.3   | 17.4   | 20.3   | 23.0   | 22.6   | 20.2   | 12.9   |        |      |      |      |      |      |      |
|                    | 40000  |        |        |        | 0.0    | 2.8    | 5.7    | 4.4    |        |        |        |      |      |      |      |      |      |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| OVERALL CALCULATED |        | 59.3   | 61.7   | 63.6   | 66.1   | 68.1   | 70.8   | 71.7   | 72.1   | 71.4   | 67.0   | 59.9 |      |      |      |      |      |
| PND8               |        | 71.4   | 74.4   | 76.8   | 80.8   | 82.2   | 84.9   | 85.8   | 86.4   | 86.2   | 81.2   | 71.1 |      |      |      |      |      |





MODEL SOUND PRESSURE LEVELS (59, DEG. F., 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156. | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|
| FREQ. (10.92)      | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | (10. | (10. | (10. | (10. | (10. | (10. |
| SIDELINE 200. FT.  | 100    | 44.4   | 50.4   | 51.6   | 50.2   | 49.3   | 49.0   | 49.4   | 49.6   | 51.3   | 53.5 | 53.0 |      |      |      |      |      |
| ( 60.96 M)         | 125    | 50.0   | 56.8   | 57.7   | 55.4   | 53.2   | 53.8   | 51.8   | 54.0   | 53.4   | 53.9 | 52.6 |      |      |      |      |      |
| VEHICLE R-55       | 160    | 48.4   | 50.2   | 50.4   | 51.3   | 51.1   | 51.5   | 53.2   | 53.9   | 54.3   | 54.8 | 53.4 |      |      |      |      |      |
| CONFIG 75-1E       | 200    | 46.8   | 47.9   | 49.8   | 50.2   | 52.3   | 54.2   | 54.4   | 54.8   | 55.8   | 55.8 | 53.7 |      |      |      |      |      |
| LCC SCHEMECTADY    | 250    | 49.7   | 51.5   | 52.7   | 53.9   | 54.5   | 55.3   | 56.1   | 56.0   | 55.3   | 54.7 | 52.5 |      |      |      |      |      |
| DATE 1/27/75       | 315    | 51.4   | 53.0   | 54.1   | 54.6   | 54.9   | 55.6   | 55.2   | 54.9   | 54.2   | 54.3 | 52.0 |      |      |      |      |      |
| RUN 68/3           | 400    | 49.3   | 50.9   | 51.6   | 52.2   | 53.3   | 54.2   | 54.9   | 54.3   | 54.1   | 54.2 | 51.0 |      |      |      |      |      |
| TAPE               | 500    | 47.2   | 48.3   | 50.0   | 51.4   | 52.5   | 54.1   | 54.8   | 55.2   | 54.2   | 53.3 | 49.5 |      |      |      |      |      |
| BAR 29.9 HG        | 630    | 49.1   | 50.2   | 52.4   | 54.6   | 55.7   | 57.0   | 58.4   | 58.0   | 56.1   | 54.3 | 49.3 |      |      |      |      |      |
| (100867. N/M2)     | 800    | 49.9   | 51.3   | 52.7   | 54.7   | 55.8   | 57.9   | 57.8   | 57.9   | 56.4   | 54.1 | 48.5 |      |      |      |      |      |
| TAMB 40. DEG F     | 1000   | 47.8   | 49.8   | 51.3   | 54.1   | 55.4   | 58.1   | 58.7   | 58.5   | 57.5   | 54.4 | 47.1 |      |      |      |      |      |
| (278. DEG K)       | 1250   | 47.7   | 49.2   | 51.5   | 53.5   | 55.6   | 57.7   | 58.8   | 58.3   | 57.6   | 54.7 | 46.8 |      |      |      |      |      |
| TMET 30. DEG F     | 1600   | 47.5   | 50.8   | 53.0   | 54.6   | 56.2   | 57.3   | 58.3   | 57.9   | 57.6   | 54.2 | 49.3 |      |      |      |      |      |
| (275. DEG K)       | 2000   | 47.0   | 49.9   | 51.8   | 54.2   | 55.9   | 55.9   | 56.9   | 57.0   | 58.1   | 53.1 | 44.9 |      |      |      |      |      |
| MACT 4.45 CM/M3    | 2500   | 47.8   | 50.5   | 52.4   | 55.4   | 58.4   | 59.7   | 60.7   | 61.7   | 62.1   | 54.5 | 45.7 |      |      |      |      |      |
| (.00445 KG/M3)     | 3150   | 49.9   | 53.2   | 55.3   | 59.4   | 62.9   | 65.7   | 67.6   | 66.3   | 66.0   | 58.3 | 48.4 |      |      |      |      |      |
| NFA 6999. RPM      | 4000   | 50.1   | 53.7   | 56.9   | 60.9   | 63.7   | 66.7   | 68.3   | 68.8   | 65.8   | 58.0 | 47.8 |      |      |      |      |      |
| ( 733. RAD/SEC)    | 5000   | 48.5   | 52.4   | 56.1   | 59.7   | 62.4   | 65.7   | 67.5   | 67.9   | 64.7   | 56.8 | 46.3 |      |      |      |      |      |
| NFK 7131. RPM      | 6300   | 45.7   | 49.4   | 52.8   | 55.8   | 58.9   | 63.2   | 64.8   | 64.4   | 62.7   | 53.5 | 42.8 |      |      |      |      |      |
| ( 747. RAD/SEC)    | 8000   | 43.2   | 47.6   | 50.7   | 55.0   | 57.5   | 61.8   | 63.2   | 63.3   | 61.4   | 51.0 | 39.1 |      |      |      |      |      |
| NPD 8823. RPM      | 10000  | 40.6   | 45.7   | 49.4   | 54.0   | 56.6   | 60.4   | 62.3   | 61.8   | 59.1   | 49.4 | 38.4 |      |      |      |      |      |
| ( 924. RAD/SEC)    | 12500  | 37.8   | 41.4   | 45.7   | 50.4   | 52.5   | 56.3   | 58.3   | 58.5   | 55.7   | 44.8 | 28.1 |      |      |      |      |      |
| NO. OF BLADES 15   | 16000  | 29.9   | 34.8   | 39.8   | 43.9   | 46.6   | 50.5   | 52.8   | 52.8   | 48.7   | 38.5 | 17.9 |      |      |      |      |      |
| PAN TIP SPEED      | 20000  | 23.6   | 28.4   | 34.2   | 38.8   | 41.8   | 45.4   | 46.6   | 47.0   | 43.2   | 28.5 | 8.3  |      |      |      |      |      |
| 611. FT/SEC        | 25000  | 14.1   | 20.8   | 26.1   | 30.8   | 33.7   | 37.4   | 38.1   | 37.1   | 32.2   | 18.3 |      |      |      |      |      |      |
|                    | 31500  | 8.9    | 9.1    | 15.3   | 21.4   | 24.8   | 27.3   | 27.1   | 24.7   | 17.1   |      |      |      |      |      |      |      |
|                    | 40000  |        |        |        | 3.4    | 7.0    | 9.3    | 8.8    | 3.7    |        |      |      |      |      |      |      |      |
|                    | 50000  |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |
|                    | 63000  |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |
|                    | 80000  |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |
| OVERALL CALCULATED |        | 61.5   | 64.5   | 66.9   | 68.8   | 71.0   | 73.7   | 75.2   | 74.8   | 73.8   | 68.9 | 63.0 |      |      |      |      |      |
| PNDB               |        | 73.6   | 76.9   | 79.5   | 82.7   | 85.1   | 87.8   | 89.2   | 88.5   | 82.4   | 81.1 | 72.7 |      |      |      |      |      |

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MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY1

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | FREQ.   | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 150.  | 0.     | 0.     | 0.     | 0.     | 0.     | 0.     | PWL |
|--------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-----|
|                    | (10.92) | (1.06) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.0) | (3.14) | (3.49) | (3.77) | (4.19) | (4.71) | (5.35) |     |
|                    | 50      |        |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |        |     |
|                    | 63      |        |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |        |     |
| RADIAL 17. FT.     | 80      |        |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |        |     |
| VEHICLE R-55       | 100     | 68.3   | 71.6   | 72.6   | 72.7   | 73.1   | 74.4   | 73.6   | 74.9   | 76.7   | 83.3   | 87.1  |        |        |        |        |        |        |     |
| CONFIG 75-1E       | 125     | 75.0   | 77.4   | 77.1   | 76.4   | 76.9   | 76.9   | 78.4   | 79.9   | 81.0   | 84.1   | 87.1  |        |        |        |        |        |        |     |
| LOC SCHEMECTADY    | 160     | 75.0   | 75.9   | 75.6   | 76.2   | 75.9   | 76.2   | 76.6   | 80.2   | 82.5   | 85.3   | 87.4  |        |        |        |        |        |        |     |
| DATE 1/27/75       | 200     | 73.3   | 73.4   | 74.4   | 75.2   | 76.9   | 79.4   | 80.6   | 82.1   | 83.0   | 85.0   | 88.1  |        |        |        |        |        |        |     |
| RUN 8674           | 250     | 78.0   | 77.0   | 79.4   | 79.6   | 80.4   | 81.4   | 82.6   | 83.9   | 84.5   | 87.1   | 87.6  |        |        |        |        |        |        |     |
| TAPE               | 315     | 78.8   | 78.9   | 78.9   | 79.7   | 79.6   | 80.9   | 81.1   | 81.9   | 83.2   | 85.1   | 86.3  |        |        |        |        |        |        |     |
| BAR 29.9 HG        | 400     | 76.6   | 77.1   | 77.4   | 77.7   | 78.1   | 79.2   | 80.4   | 81.6   | 82.7   | 84.0   | 85.0  |        |        |        |        |        |        |     |
| (80867. N/M2)      | 500     | 74.6   | 74.9   | 75.6   | 76.7   | 77.6   | 78.9   | 80.6   | 81.7   | 83.0   | 84.1   | 84.6  |        |        |        |        |        |        |     |
| TANS 40. DEG F     | 630     | 76.1   | 76.1   | 77.9   | 79.2   | 80.4   | 81.9   | 83.4   | 84.4   | 84.5   | 85.6   | 84.6  |        |        |        |        |        |        |     |
| (1276. DEG K)      | 800     | 77.6   | 77.6   | 78.1   | 79.7   | 80.6   | 82.4   | 83.6   | 84.9   | 85.0   | 84.6   | 84.1  |        |        |        |        |        |        |     |
| TNET 36. DEG F     | 1000    | 75.4   | 76.6   | 77.4   | 78.9   | 80.1   | 82.7   | 83.8   | 84.9   | 85.5   | 84.1   | 82.9  |        |        |        |        |        |        |     |
| (1275. DEG K)      | 1250    | 75.7   | 76.2   | 77.4   | 79.0   | 80.7   | 83.0   | 84.1   | 84.9   | 85.2   | 84.4   | 82.6  |        |        |        |        |        |        |     |
| MACT 4.45 GR/M3    | 1600    | 74.7   | 75.2   | 76.4   | 78.0   | 79.2   | 80.7   | 82.1   | 83.6   | 84.7   | 83.1   | 80.9  |        |        |        |        |        |        |     |
| (1.08445 KG/M3)    | 2000    | 77.4   | 78.2   | 81.1   | 82.1   | 83.2   | 85.0   | 86.3   | 84.6   | 86.7   | 84.9   | 83.9  |        |        |        |        |        |        |     |
| NFA 7773. RPM      | 2500    | 76.4   | 78.5   | 79.6   | 83.4   | 84.8   | 86.5   | 87.1   | 89.9   | 91.5   | 86.2   | 82.1  |        |        |        |        |        |        |     |
| (814. RAD/SEC)     | 3150    | 76.9   | 79.2   | 81.4   | 84.9   | 87.5   | 90.5   | 92.3   | 92.1   | 93.5   | 88.4   | 83.6  |        |        |        |        |        |        |     |
| NFK 7919. RPM      | 4000    | 81.4   | 84.5   | 86.3   | 90.1   | 92.3   | 94.7   | 96.3   | 96.3   | 97.7   | 92.9   | 87.5  |        |        |        |        |        |        |     |
| (829. RAD/SEC)     | 5000    | 77.6   | 80.2   | 83.0   | 87.1   | 89.2   | 92.4   | 94.7   | 95.2   | 94.6   | 89.8   | 84.2  |        |        |        |        |        |        |     |
| NFD 8023. RPM      | 6300    | 76.7   | 80.5   | 82.5   | 87.0   | 89.1   | 91.9   | 93.9   | 95.5   | 94.4   | 88.5   | 84.1  |        |        |        |        |        |        |     |
| (824. RAD/SEC)     | 8000    | 75.3   | 77.9   | 80.8   | 84.8   | 86.8   | 90.9   | 93.0   | 94.8   | 94.0   | 88.0   | 82.9  |        |        |        |        |        |        |     |
| NO. OF BLADES IS   | 10000   | 78.1   | 78.3   | 81.1   | 85.8   | 87.6   | 92.0   | 94.3   | 95.5   | 94.6   | 88.3   | 83.3  |        |        |        |        |        |        |     |
| FAN TIP SPEED      | 12500   | 74.9   | 76.5   | 80.0   | 83.9   | 86.3   | 91.1   | 92.9   | 95.1   | 94.4   | 86.2   | 82.3  |        |        |        |        |        |        |     |
| 679. FT/SEC        | 16000   | 72.2   | 74.5   | 77.4   | 81.1   | 84.3   | 87.6   | 90.7   | 93.2   | 92.4   | 86.0   | 81.0  |        |        |        |        |        |        |     |
|                    | 20000   | 72.0   | 73.9   | 77.0   | 81.3   | 84.1   | 87.5   | 91.4   | 93.5   | 93.6   | 86.0   | 81.0  |        |        |        |        |        |        |     |
|                    | 25000   | 78.7   | 73.8   | 76.4   | 80.4   | 83.1   | 86.7   | 89.4   | 92.5   | 93.0   | 84.7   | 80.2  |        |        |        |        |        |        |     |
|                    | 31500   | 78.2   | 73.2   | 76.4   | 81.0   | 83.4   | 86.9   | 89.0   | 91.5   | 91.4   | 85.3   | 78.0  |        |        |        |        |        |        |     |
|                    | 40000   | 84.0   | 78.9   | 74.5   | 77.5   | 80.3   | 84.0   | 86.0   | 88.1   | 87.9   | 82.0   | 73.3  |        |        |        |        |        |        |     |
|                    | 50000   | 87.5   | 87.6   | 71.4   | 73.4   | 76.5   | 80.1   | 83.1   | 83.5   | 83.4   | 79.4   | 69.0  |        |        |        |        |        |        |     |
|                    | 63000   | 89.0   | 88.2   | 88.4   | 87.9   | 89.9   | 73.6   | 76.0   | 76.0   | 76.2   | 73.2   | 65.1  |        |        |        |        |        |        |     |
|                    | 80000   | 71.4   | 68.7   | 70.0   | 67.2   | 67.5   | 68.0   | 69.4   | 69.2   | 69.0   | 67.9   | 65.2  |        |        |        |        |        |        |     |
| OVERALL MEASURES   |         |        |        |        |        |        |        |        |        |        |        |       |        |        |        |        |        |        |     |
| OVERALL CALCULATED |         | 96.3   | 82.1   | 93.9   | 97.1   | 99.0   | 102.1  | 104.1  | 105.0  | 105.2  | 101.2  | 99.9  |        |        |        |        |        |        |     |
| PMS                |         | 103.6  | 105.9  | 107.6  | 110.8  | 112.0  | 115.1  | 116.8  | 118.3  | 118.2  | 114.4  | 110.9 |        |        |        |        |        |        |     |

MODEL SOUND PRESSURE LEVELS (59. DEC. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                           | FREQ. | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 168.   | 180.   | 190.   | 200.   |
|---------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                           |       | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.95) | (3.18) | (3.42) | (3.66) |
| SIDELINE 200. FT.         | 50    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ( 60.96 M)                | 63    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE R-55              | 80    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| CONFIG 75-1E              | 100   | 44.6   | 48.9   | 50.6   | 51.0   | 51.5   | 52.7   | 51.4   | 51.8   | 54.3   | 56.8   | 57.0   |        |        |        |        |
| LOC SCHEMATIC             | 125   | 51.3   | 54.6   | 55.0   | 54.6   | 55.2   | 55.1   | 56.1   | 56.0   | 56.4   | 57.4   | 56.9   |        |        |        |        |
| DATE 1/27/75              | 160   | 51.2   | 53.0   | 53.4   | 54.3   | 54.1   | 54.3   | 56.2   | 56.9   | 57.8   | 58.5   | 58.9   |        |        |        |        |
| RUN 66/4                  | 200   | 49.3   | 50.4   | 52.1   | 53.2   | 55.1   | 57.4   | 58.2   | 58.6   | 58.2   | 58.8   | 57.4   |        |        |        |        |
| TAPE                      | 250   | 54.0   | 54.8   | 57.0   | 57.8   | 58.5   | 59.3   | 60.1   | 60.5   | 59.6   | 60.0   | 56.7   |        |        |        |        |
| BAR 29.9 HG               | 315   | 54.6   | 55.7   | 56.4   | 57.6   | 57.7   | 58.8   | 58.5   | 58.4   | 58.2   | 57.8   | 55.2   |        |        |        |        |
| (00667. N/H2)             | 400   | 52.3   | 53.9   | 54.8   | 55.5   | 56.1   | 56.9   | 57.6   | 58.0   | 57.6   | 57.4   | 54.9   |        |        |        |        |
| TAMB 40. DEG F            | 500   | 50.2   | 51.3   | 53.0   | 54.4   | 55.5   | 56.6   | 57.8   | 57.9   | 57.7   | 56.5   | 53.0   |        |        |        |        |
| (278. DEG K)              | 630   | 51.6   | 52.7   | 55.1   | 56.8   | 58.2   | 59.5   | 60.4   | 60.9   | 59.1   | 57.8   | 52.8   |        |        |        |        |
| THEY 38. DEG F            | 800   | 52.9   | 54.0   | 55.2   | 57.2   | 58.3   | 59.9   | 60.5   | 60.9   | 59.4   | 58.8   | 52.8   |        |        |        |        |
| (275. DEG K)              | 1000  | 50.6   | 52.9   | 54.3   | 56.3   | 57.7   | 60.1   | 60.7   | 60.8   | 59.8   | 55.9   | 50.4   |        |        |        |        |
| MACH 4.45 CM/H3           | 1250  | 50.7   | 52.2   | 54.2   | 56.3   | 58.1   | 60.2   | 60.8   | 60.6   | 59.3   | 55.9   | 49.8   |        |        |        |        |
| (1.00445 KC/H3)           | 1600  | 49.5   | 51.1   | 53.0   | 55.1   | 56.4   | 57.8   | 58.6   | 59.1   | 58.6   | 54.4   | 47.6   |        |        |        |        |
| RPM 7773                  | 2000  | 52.0   | 54.9   | 57.8   | 59.0   | 60.3   | 61.9   | 62.6   | 63.9   | 64.4   | 57.8   | 50.1   |        |        |        |        |
| ( 814. RAD/SEC)           | 2500  | 50.8   | 54.0   | 55.9   | 60.1   | 61.6   | 63.2   | 63.2   | 64.9   | 64.9   | 56.8   | 47.9   |        |        |        |        |
| MFR 7919. RPM             | 3150  | 50.9   | 54.4   | 57.3   | 61.4   | 62.1   | 66.9   | 68.1   | 68.8   | 64.5   | 58.6   | 48.7   |        |        |        |        |
| ( 829. RAD/SEC)           | 4000  | 54.8   | 59.2   | 61.9   | 66.2   | 68.4   | 70.7   | 71.8   | 72.5   | 78.1   | 62.3   | 51.5   |        |        |        |        |
| MFD 8023. RPM             | 5000  | 50.7   | 54.6   | 58.3   | 62.9   | 65.2   | 68.2   | 69.8   | 69.2   | 66.7   | 58.8   | 47.6   |        |        |        |        |
| ( 824. RAD/SEC)           | 6300  | 48.9   | 54.1   | 57.8   | 62.1   | 64.4   | 67.8   | 68.3   | 68.7   | 65.5   | 56.3   | 45.6   |        |        |        |        |
| NO. OF BLADES 15          | 8000  | 46.2   | 50.3   | 54.2   | 58.7   | 61.0   | 64.8   | 66.2   | 66.6   | 63.6   | 53.8   | 41.6   |        |        |        |        |
| FAN TIP SPEED 679. FT/SEC | 10000 | 44.1   | 49.0   | 52.9   | 58.3   | 60.3   | 64.1   | 65.8   | 65.6   | 62.1   | 51.4   | 38.1   |        |        |        |        |
|                           | 12500 | 41.0   | 44.7   | 49.4   | 54.1   | 56.8   | 61.3   | 62.1   | 62.5   | 58.7   | 47.3   | 31.4   |        |        |        |        |
|                           | 16000 | 33.7   | 38.5   | 43.8   | 47.7   | 51.1   | 54.8   | 56.8   | 56.3   | 51.7   | 38.7   | 28.6   |        |        |        |        |
|                           | 20000 | 27.4   | 32.4   | 38.4   | 43.8   | 46.3   | 49.1   | 51.6   | 51.8   | 46.2   | 31.8   | 20.8   |        |        |        |        |
|                           | 25000 | 17.4   | 24.8   | 29.8   | 35.3   | 38.5   | 41.1   | 42.3   | 41.8   | 36.2   | 18.8   |        |        |        |        |        |
|                           | 31500 | 4.2    | 12.8   | 19.3   | 25.9   | 28.8   | 31.5   | 31.1   | 28.9   | 20.6   |        |        |        |        |        |        |
|                           | 40000 |        |        | 1.7    | 7.4    | 11.8   | 13.6   | 13.1   | 8.8    |        |        |        |        |        |        |        |
|                           | 50000 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                           | 63000 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                           | 80000 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED        |       | 64.5   | 67.1   | 69.3   | 72.4   | 74.3   | 76.8   | 77.9   | 78.1   | 76.3   | 78.9   | 66.8   |        |        |        |        |
| PRDS                      |       | 77.3   | 80.8   | 83.3   | 87.8   | 88.9   | 91.2   | 92.2   | 92.7   | 89.8   | 86.3   | 78.9   |        |        |        |        |



MODEL SOUND PRESSURE LEVELS (90, DEC. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                           | FREQ.  | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156. | 0. | 0. | 0. | 0. | 0.  |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|-----|
|                           | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 0. | 0. | 0. | 0. | 0.) |
| SIDELINE 200. FT.         | 50     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| ( 60.96 M)                | 63     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |
| VEHICLE R-95              | 100    | 44.0   | 40.0   | 50.0   | 50.7   | 52.5   | 52.7   | 52.2   | 52.1   | 54.8   | 57.0   | 57.5 |    |    |    |    |     |
| CONFIG 75-1E              | 125    | 51.0   | 54.6   | 55.0   | 54.9   | 55.0   | 55.3   | 56.3   | 56.8   | 56.4   | 57.2   | 57.1 |    |    |    |    |     |
| LOC SCHEMECTADY           | 160    | 50.0   | 52.5   | 53.7   | 54.1   | 54.1   | 54.8   | 56.5   | 56.9   | 57.6   | 56.3   | 56.4 |    |    |    |    |     |
| DATE 1/27/75              | 200    | 49.3   | 50.4   | 51.0   | 53.2   | 55.3   | 57.0   | 57.2   | 58.1   | 58.5   | 59.1   | 57.7 |    |    |    |    |     |
| RUN 60/3                  | 250    | 54.0   | 54.0   | 57.2   | 57.6   | 58.5   | 59.0   | 60.1   | 60.7   | 60.8   | 59.7   | 57.9 |    |    |    |    |     |
| TAP                       | 315    | 54.1   | 55.7   | 56.9   | 57.3   | 58.2   | 58.5   | 59.0   | 58.6   | 58.2   | 58.0   | 55.7 |    |    |    |    |     |
| BAR 20.0 MG               | 400    | 52.0   | 53.0   | 54.0   | 55.7   | 56.3   | 57.4   | 57.6   | 57.8   | 57.9   | 57.4   | 54.0 |    |    |    |    |     |
| (00007. N/M2)             | 500    | 49.0   | 51.0   | 52.7   | 54.2   | 55.5   | 56.0   | 57.5   | 57.7   | 57.5   | 56.0   | 53.0 |    |    |    |    |     |
| TAND 40. DEG F            | 630    | 51.0   | 52.7   | 55.1   | 56.6   | 57.9   | 59.0   | 60.4   | 60.0   | 59.1   | 57.3   | 52.0 |    |    |    |    |     |
| (270. DEG K)              | 800    | 52.4   | 53.5   | 55.2   | 56.7   | 58.3   | 60.2   | 60.5   | 60.7   | 59.7   | 57.4   | 52.0 |    |    |    |    |     |
| TMET 30. DEG F            | 1000   | 50.3   | 52.6   | 54.3   | 56.6   | 58.9   | 60.6   | 60.9   | 60.8   | 59.6   | 56.9   | 50.0 |    |    |    |    |     |
| (270. DEG K)              | 1250   | 49.0   | 51.7   | 54.0   | 56.3   | 58.3   | 60.2   | 60.0   | 60.3   | 59.6   | 56.4   | 49.0 |    |    |    |    |     |
| NACT 4.45 CM/M3           | 1500   | 49.2   | 50.6   | 52.0   | 54.9   | 56.7   | 58.3   | 58.0   | 59.1   | 58.4   | 54.4   | 47.6 |    |    |    |    |     |
| (.00045 KG/M3)            | 2000   | 52.5   | 54.9   | 56.0   | 59.2   | 60.5   | 61.6   | 61.9   | 63.9   | 64.4   | 59.1   | 50.4 |    |    |    |    |     |
| NFA 772. RPM              | 2500   | 50.6   | 53.5   | 55.4   | 59.0   | 61.9   | 62.7   | 63.2   | 64.7   | 64.6   | 56.8   | 47.9 |    |    |    |    |     |
| ( 614. RAD/SEC)           | 3150   | 51.2   | 54.2   | 57.1   | 61.9   | 64.4   | 66.7   | 68.1   | 68.0   | 66.7   | 56.6   | 49.2 |    |    |    |    |     |
| NFR 7910. RPM             | 4000   | 54.8   | 59.2   | 61.9   | 65.9   | 67.9   | 70.2   | 71.6   | 71.0   | 70.3   | 62.0   | 51.5 |    |    |    |    |     |
| ( 829. RAD/SEC)           | 5000   | 51.9   | 54.4   | 56.3   | 62.0   | 65.4   | 68.2   | 69.8   | 68.9   | 67.8   | 58.0   | 47.0 |    |    |    |    |     |
| NFB 8023. RPM             | 6300   | 49.4   | 53.6   | 56.5   | 61.8   | 64.6   | 67.2   | 68.0   | 68.4   | 66.8   | 56.5   | 45.1 |    |    |    |    |     |
| ( 924. RAD/SEC)           | 8000   | 46.4   | 50.1   | 53.9   | 58.5   | 61.2   | 63.0   | 64.4   | 64.3   | 63.6   | 54.0   | 41.4 |    |    |    |    |     |
| NO. OF BLADES 13          | 10000  | 44.0   | 48.5   | 53.1   | 57.8   | 62.1   | 63.0   | 65.4   | 65.6   | 61.0   | 50.1   | 38.0 |    |    |    |    |     |
| FAN TIP SPEED 670. FT/SEC | 11500  | 40.7   | 46.7   | 49.2   | 53.9   | 57.0   | 61.3   | 61.6   | 62.8   | 60.7   | 47.8   | 31.0 |    |    |    |    |     |
| 25000                     | 14700  | 33.4   | 38.3   | 42.0   | 47.7   | 50.9   | 54.3   | 55.8   | 56.8   | 51.7   | 39.5   | 28.0 |    |    |    |    |     |
| 31500                     | 40000  | 27.1   | 32.4   | 37.7   | 42.6   | 46.3   | 49.0   | 51.1   | 51.5   | 46.2   | 31.3   | 20.3 |    |    |    |    |     |
| 50000                     | 60000  | 17.6   | 24.1   | 29.6   | 35.1   | 39.7   | 41.7   | 43.1   | 43.1   | 36.0   | 19.1   |      |    |    |    |    |     |
| 80000                     | 100000 | 4.4    | 12.0   | 19.3   | 24.0   | 28.1   | 31.3   | 31.6   | 30.9   | 20.4   | 0.0    |      |    |    |    |    |     |
| OVERALL CALCULATED        |        | 64.5   | 64.0   | 69.2   | 72.3   | 74.9   | 76.7   | 77.0   | 77.0   | 76.8   | 71.0   | 64.7 |    |    |    |    |     |
| PHSD                      |        | 77.3   | 68.7   | 63.2   | 66.7   | 60.9   | 60.0   | 62.1   | 62.2   | 61.0   | 64.3   | 75.0 |    |    |    |    |     |



MODEL SOUND PRESSURE LEVELS 150, DEG. F. 70 PERCENT REL. HUM. RAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                                    | FREQ. | ANGLE         |               |               |               |               |                |                |                |                |                |                |           |           |           |           |
|------------------------------------|-------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------|-----------|-----------|-----------|
|                                    |       | 53.<br>(0.92) | 62.<br>(1.08) | 71.<br>(1.24) | 81.<br>(1.41) | 91.<br>(1.58) | 101.<br>(1.76) | 111.<br>(1.94) | 122.<br>(2.13) | 133.<br>(2.32) | 145.<br>(2.52) | 156.<br>(2.73) | 0.<br>(0) | 0.<br>(0) | 0.<br>(0) | 0.<br>(0) |
| 50                                 |       |               |               |               |               |               |                |                |                |                |                |                |           |           |           |           |
| 63                                 |       |               |               |               |               |               |                |                |                |                |                |                |           |           |           |           |
| SIDELINE 200. FT.<br>( 60.96 M)    | 80    |               |               |               |               |               |                |                |                |                |                |                |           |           |           |           |
| VEHICLE R-55                       | 100   | 49.0          | 52.2          | 56.6          | 59.3          | 59.0          | 58.4           | 54.6           | 47.4           | 46.8           | 48.5           | 47.1           |           |           |           |           |
| CONFIG 75-1E                       | 125   | 41.7          | 45.4          | 49.5          | 47.4          | 48.6          | 46.8           | 46.0           | 49.1           | 47.9           | 45.6           | 44.9           |           |           |           |           |
| LOC SCHENECTADY                    | 160   | 41.1          | 43.5          | 44.2          | 44.9          | 45.1          | 45.3           | 46.4           | 46.8           | 47.6           | 46.9           | 44.9           |           |           |           |           |
| DATE 1/27/75                       | 200   | 40.3          | 41.7          | 42.8          | 44.3          | 45.7          | 47.9           | 47.8           | 48.9           | 48.2           | 48.5           | 46.2           |           |           |           |           |
| RUN 66/6                           | 250   | 42.9          | 44.6          | 46.2          | 47.2          | 47.4          | 48.1           | 48.7           | 48.3           | 47.8           | 48.9           | 44.5           |           |           |           |           |
| TAPE                               | 315   | 44.8          | 47.3          | 47.6          | 48.1          | 48.8          | 49.5           | 48.4           | 48.2           | 47.7           | 47.3           | 43.3           |           |           |           |           |
| BAR 29.9 HG<br>(100667. N/M2)      | 400   | 42.2          | 44.4          | 45.1          | 46.0          | 46.7          | 48.2           | 48.0           | 48.1           | 47.1           | 46.1           | 42.6           |           |           |           |           |
| TAMB 40. DEG F<br>(1278. DEG K)    | 500   | 40.6          | 42.6          | 44.2          | 45.5          | 46.7          | 48.4           | 48.7           | 49.0           | 48.2           | 46.4           | 42.1           |           |           |           |           |
| THET 36. DEG F<br>(1275. DEG K)    | 630   | 43.0          | 45.0          | 47.4          | 49.4          | 50.1          | 51.8           | 52.3           | 52.6           | 51.1           | 49.0           | 43.1           |           |           |           |           |
| 1000                               | 800   | 43.6          | 45.6          | 47.5          | 49.3          | 50.2          | 52.7           | 52.7           | 53.5           | 52.2           | 49.6           | 42.0           |           |           |           |           |
| 1250                               | 1000  | 42.2          | 44.7          | 46.4          | 49.1          | 50.8          | 53.3           | 53.6           | 54.1           | 53.5           | 51.1           | 40.9           |           |           |           |           |
| 1600                               | 1250  | 47.6          | 47.5          | 50.5          | 54.6          | 55.5          | 58.2           | 58.2           | 59.2           | 58.1           | 55.1           | 44.6           |           |           |           |           |
| MACT 4.45 GN/M3<br>(1.00445 KG/M3) | 1600  | 42.9          | 43.9          | 46.3          | 49.2          | 50.4          | 53.3           | 54.0           | 54.2           | 52.1           | 49.8           | 40.1           |           |           |           |           |
| 2000                               | 2000  | 39.2          | 41.2          | 43.4          | 45.3          | 46.7          | 48.1           | 49.0           | 50.5           | 51.3           | 48.5           | 38.9           |           |           |           |           |
| NFA 5447. RPM<br>( 570. RAD/SEC)   | 2500  | 46.4          | 48.0          | 51.2          | 53.4          | 55.8          | 58.2           | 59.8           | 62.0           | 62.9           | 56.7           | 46.0           |           |           |           |           |
| 3150                               | 3150  | 44.1          | 47.0          | 49.6          | 52.9          | 56.1          | 58.7           | 59.5           | 59.9           | 59.2           | 58.0           | 43.5           |           |           |           |           |
| 4000                               | 4000  | 44.5          | 47.7          | 50.4          | 54.0          | 57.9          | 60.2           | 61.0           | 61.6           | 59.8           | 54.7           | 42.6           |           |           |           |           |
| NPK 5550. RPM<br>( 581. RAD/SEC)   | 5000  | 42.4          | 44.4          | 47.8          | 51.2          | 55.1          | 58.2           | 59.9           | 60.3           | 58.2           | 53.5           | 40.4           |           |           |           |           |
| 6300                               | 6300  | 38.8          | 42.2          | 45.0          | 48.6          | 51.5          | 55.4           | 57.4           | 57.5           | 55.5           | 46.7           | 37.2           |           |           |           |           |
| NPD 6823. RPM<br>( 924. RAD/SEC)   | 8000  | 35.6          | 39.6          | 42.4          | 46.8          | 49.6          | 52.5           | 54.6           | 54.9           | 53.6           | 47.2           | 33.2           |           |           |           |           |
| 10000                              | 10000 | 33.5          | 37.5          | 40.7          | 45.8          | 48.2          | 51.3           | 53.2           | 53.6           | 52.3           | 44.3           | 29.7           |           |           |           |           |
| NO. OF BLADES 15                   | 12500 | 30.4          | 33.7          | 36.4          | 41.4          | 45.2          | 47.3           | 49.2           | 50.6           | 48.7           | 39.8           | 22.7           |           |           |           |           |
| PAN TIP SPEED                      | 16000 | 23.6          | 27.6          | 30.5          | 35.5          | 38.8          | 41.8           | 43.2           | 44.6           | 42.2           | 30.4           | 11.9           |           |           |           |           |
| 476. FT/SEC                        | 20000 | 18.3          | 21.5          | 25.2          | 31.1          | 34.4          | 36.4           | 37.8           | 38.3           | 35.2           | 21.0           |                |           |           |           |           |
|                                    | 25000 | 7.3           | 12.9          | 16.8          | 23.4          | 26.4          | 28.2           | 29.5           | 27.9           | 23.4           | 8.2            |                |           |           |           |           |
|                                    | 31500 |               | 0.7           | 6.5           | 12.9          | 16.5          | 18.0           | 17.8           | 16.8           | 8.9            |                |                |           |           |           |           |
|                                    | 40000 |               |               |               |               |               | 0.1            |                |                |                |                |                |           |           |           |           |
|                                    | 50000 |               |               |               |               |               |                |                |                |                |                |                |           |           |           |           |
|                                    | 63000 |               |               |               |               |               |                |                |                |                |                |                |           |           |           |           |
|                                    | 80000 |               |               |               |               |               |                |                |                |                |                |                |           |           |           |           |
| OVERALL CALCULATED                 |       | 56.7          | 59.8          | 61.9          | 64.4          | 66.1          | 68.1           | 68.8           | 69.4           | 68.5           | 64.3           | 56.4           |           |           |           |           |
| PND8                               |       | 68.3          | 78.7          | 73.3          | 78.4          | 79.3          | 81.8           | 82.8           | 83.1           | 82.6           | 77.7           | 67.7           |           |           |           |           |



MODEL SQUAD 00105001 LFV ELS (59. LFG. F. 70 PERCENT ALL. NUM. DAY)  
 PERC. RATE = MONTH 3 DAY 20 NR. 14.7  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0°     | 0°     | 0°     | 0°     | 0°     | 0°     | PUL   |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
|                     | 100.22 | 101.38 | 102.54 | 103.70 | 104.86 | 106.02 | 107.18 | 108.34 | 109.50 | 110.66 | 111.82 | 112.98 | 114.14 | 115.30 | 116.46 |       |
| RADIAL 17. FT.      | 100    | 75.7   | 74.4   | 77.7   | 76.5   | 79.5   | 78.1   | 74.0   | 62.5   | 72.2   | 74.3   | 76.9   |        |        |        | 110.5 |
| VEHICLE (5. H)      | 124    | 69.2   | 69.7   | 71.2   | 69.7   | 75.7   | 67.1   | 67.4   | 71.5   | 72.4   | 72.9   | 74.9   |        |        |        | 100.0 |
| CONFIG 75-1F        | 174    | 64.7   | 65.2   | 65.7   | 64.2   | 66.7   | 64.7   | 69.0   | 70.3   | 72.4   | 71.5   | 75.7   |        |        |        | 103.6 |
| LCC SCHEDULE FACTY  | 200    | 63.5   | 64.2   | 64.9   | 64.5   | 67.3   | 64.6   | 69.4   | 71.7   | 72.7   | 74.5   | 76.4   |        |        |        | 104.4 |
| DATE 1/17/75        | 250    | 67.0   | 67.7   | 68.1   | 69.2   | 69.5   | 70.1   | 71.3   | 71.7   | 72.4   | 74.0   | 75.4   |        |        |        | 105.0 |
| WIND 59/1           | 314    | 67.2   | 71.2   | 70.7   | 71.5   | 71.1   | 71.9   | 71.4   | 72.5   | 73.2   | 73.8   | 74.9   |        |        |        | 106.0 |
| TYPE                | 400    | 67.3   | 69.7   | 69.4   | 70.7   | 70.1   | 70.9   | 71.4   | 72.7   | 73.0   | 73.8   | 76.4   |        |        |        | 105.3 |
| BAR 30.2 MG         | 500    | 64.7   | 67.5   | 67.7   | 68.4   | 69.3   | 70.7   | 72.0   | 72.8   | 73.5   | 74.3   | 74.4   |        |        |        | 105.3 |
| (31070. W/P2)       | 620    | 75.1   | 70.5   | 72.2   | 73.7   | 73.6   | 75.2   | 76.8   | 77.0   | 76.5   | 76.3   | 74.9   |        |        |        | 104.9 |
| TANK 34. DEG F      | 400    | 75.1   | 77.7   | 77.7   | 77.5   | 77.7   | 74.5   | 75.4   | 76.4   | 77.2   | 77.3   | 74.9   |        |        |        | 106.7 |
| (274. DEG F)        | 1000   | 69.9   | 69.5   | 69.7   | 72.5   | 73.9   | 74.0   | 77.4   | 80.0   | 80.5   | 80.5   | 75.4   |        |        |        | 110.0 |
| T-PT 24. DEG F      | 1200   | 77.6   | 77.9   | 75.4   | 81.3   | 81.4   | 85.0   | 86.5   | 87.3   | 84.7   | 86.6   | 81.4   |        |        |        | 110.7 |
| (279. DEG F)        | 1500   | 75.0   | 74.5   | 74.9   | 79.1   | 81.4   | 83.3   | 84.3   | 84.8   | 84.0   | 83.9   | 77.9   |        |        |        | 115.0 |
| MACH 0.53 (M/MS)    | 2000   | 73.5   | 74.5   | 76.4   | 80.7   | 81.2   | 83.5   | 84.5   | 84.5   | 84.2   | 83.3   | 78.4   |        |        |        | 116.1 |
| (100053 M/MS)       | 2500   | 75.4   | 76.5   | 74.6   | 81.4   | 84.7   | 87.7   | 89.2   | 89.7   | 91.7   | 89.6   | 83.7   |        |        |        | 121.1 |
| MFA 5387. RPM       | 3150   | 72.6   | 74.3   | 75.6   | 79.4   | 82.9   | 85.7   | 87.2   | 87.4   | 87.7   | 89.1   | 80.9   |        |        |        | 118.7 |
| (584. RPM/SEC)      | 4000   | 72.7   | 73.9   | 74.0   | 80.4   | 83.1   | 85.4   | 88.3   | 89.5   | 89.4   | 87.5   | 81.0   |        |        |        | 119.9 |
| MFK 5522. RPM       | 5700   | 71.7   | 71.6   | 74.2   | 78.3   | 82.0   | 85.1   | 86.7   | 87.7   | 87.8   | 85.7   | 78.9   |        |        |        | 110.3 |
| (578. RPM/SEC)      | 6300   | 63.9   | 73.8   | 72.4   | 77.5   | 81.3   | 83.2   | 85.7   | 86.7   | 87.2   | 85.3   | 78.2   |        |        |        | 117.4 |
| MFD 8823. RPM       | 8000   | 65.9   | 69.9   | 72.9   | 74.9   | 77.2   | 82.3   | 84.1   | 85.3   | 85.5   | 84.1   | 78.9   |        |        |        | 118.0 |
| (924. RPM/SEC)      | 10000  | 66.3   | 67.8   | 70.3   | 75.7   | 79.1   | 81.5   | 84.0   | 85.9   | 87.7   | 83.8   | 77.2   |        |        |        | 116.6 |
| NO. OF BLADES 1g    | 10500  | 65.3   | 65.3   | 68.5   | 73.5   | 77.5   | 79.9   | 82.6   | 84.8   | 85.4   | 82.7   | 76.5   |        |        |        | 118.4 |
| PA. TIP SPEED 18300 | 10000  | 67.2   | 67.9   | 65.8   | 70.4   | 74.2   | 77.3   | 80.4   | 83.0   | 84.2   | 80.2   | 73.9   |        |        |        | 113.8 |
| 470. FT/SEC         | 20000  | 61.3   | 61.8   | 63.8   | 69.7   | 73.1   | 75.3   | 78.0   | 81.5   | 82.5   | 79.4   | 72.6   |        |        |        | 113.0 |
|                     | 25000  | 57.0   | 60.4   | 61.4   | 67.1   | 70.2   | 73.4   | 76.6   | 79.1   | 80.4   | 77.2   | 70.1   |        |        |        | 111.0 |
|                     | 31500  | 47.3   | 58.5   | 59.7   | 65.6   | 68.2   | 72.0   | 75.1   | 77.6   | 79.3   | 74.9   | 67.6   |        |        |        | 110.5 |
|                     | 40000  | 53.4   | 55.3   | 57.7   | 61.6   | 63.8   | 67.9   | 72.2   | 73.3   | 75.5   | 71.7   | 61.6   |        |        |        | 108.1 |
|                     | 50000  | 55.6   | 54.7   | 57.0   | 54.4   | 60.5   | 64.3   | 68.0   | 67.9   | 70.0   | 67.3   | 57.1   |        |        |        | 103.2 |
|                     | 63000  | 55.8   | 53.2   | 56.3   | 55.5   | 59.6   | 58.5   | 60.7   | 60.7   | 61.7   | 60.7   | 54.0   |        |        |        | 101.4 |
|                     | 80000  | 57.4   | 56.7   | 55.3   | 54.9   | 54.2   | 54.0   | 55.3   | 55.0   | 55.5   | 54.7   | 52.7   |        |        |        | 102.1 |
| OVERALL MEASURED    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
| OVERALL CALCULATED  |        | 84.6   | 85.5   | 87.8   | 90.5   | 92.3   | 95.3   | 97.1   | 98.1   | 98.7   | 97.2   | 91.7   |        |        |        | 120.2 |
| PW=0                |        | 87.3   | 88.4   | 100.1  | 103.3  | 105.7  | 108.3  | 110.0  | 111.0  | 111.6  | 110.3  | 105.1  |        |        |        |       |

|                    | 57.2  | 52.2 | 71.2 | 71.2 | 91.2 | 101.2 | 111.2 | 122.2 | 133.2 | 145.2 | 159.2 | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| FREQ               | 100   | 125  | 160  | 200  | 250  | 315   | 400   | 500   | 630   | 800   | 1000  | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 |
| SIDE LINE 200 FT.  | 47.1  | 51.7 | 55.4 | 57.8 | 57.5 | 54.4  | 51.4  | 45.4  | 47.4  | 47.7  | 46.0  |      |      |      |      |      |      |
| VEHICLE (50-96 M)  | 44.5  | 49.0 | 49.0 | 47.0 | 46.7 | 45.3  | 45.5  | 44.4  | 47.0  | 45.3  | 44.7  |      |      |      |      |      |      |
| COMPIC P-55        | 47.5  | 42.3 | 43.4 | 44.4 | 44.5 | 46.7  | 46.7  | 47.3  | 48.4  | 48.0  | 47.5  |      |      |      |      |      |      |
| LOC SCHELECTARY    | 39.5  | 41.2 | 42.6 | 44.5 | 43.5 | 46.7  | 47.3  | 48.4  | 48.0  | 47.5  | 45.7  |      |      |      |      |      |      |
| DATE 1/17/75       | 42.9  | 44.6 | 45.8 | 47.2 | 47.7 | 45.1  | 44.7  | 49.3  | 47.4  | 44.9  | 44.5  |      |      |      |      |      |      |
| RUN 59/1           | 45.1  | 47.0 | 47.7 | 49.4 | 49.1 | 49.8  | 49.2  | 49.0  | 48.2  | 46.5  | 43.0  |      |      |      |      |      |      |
| TAPE               | 43.0  | 45.4 | 45.4 | 48.1 | 49.3 | 48.7  | 49.1  | 49.6  | 47.9  | 46.4  | 43.1  |      |      |      |      |      |      |
| GAP 30.2 MG        | 41.9  | 44.1 | 45.0 | 44.5 | 47.2 | 48.4  | 49.2  | 49.0  | 48.3  | 46.7  | 42.9  |      |      |      |      |      |      |
| (31890. W/MZ)      | 45.6  | 47.0 | 47.4 | 50.9 | 51.4 | 57.8  | 53.9  | 53.2  | 51.1  | 48.6  | 43.1  |      |      |      |      |      |      |
| TAMB 34. DEG F     | 45.4  | 47.1 | 47.9 | 50.1 | 50.5 | 52.0  | 52.7  | 52.8  | 51.7  | 49.8  | 42.8  |      |      |      |      |      |      |
| (274. DEG F)       | 41.0  | 45.7 | 46.7 | 49.9 | 51.4 | 53.3  | 54.6  | 55.9  | 54.4  | 52.4  | 43.0  |      |      |      |      |      |      |
| T.F.T 24. DEG F    | 52.6  | 53.1 | 53.3 | 54.4 | 60.4 | 63.0  | 63.2  | 63.0  | 60.9  | 60.2  | 48.6  |      |      |      |      |      |      |
| (269. DEG F)       | 47.7  | 47.9 | 51.6 | 56.2 | 57.7 | 60.1  | 60.8  | 60.3  | 57.9  | 55.1  | 44.7  |      |      |      |      |      |      |
| FACT 0.53 RM/M3    | 48.2  | 53.2 | 52.9 | 57.1 | 59.2 | 62.4  | 62.8  | 62.8  | 57.9  | 54.3  | 44.7  |      |      |      |      |      |      |
| (-60053 RM/M3)     | 49.7  | 52.5 | 54.9 | 57.7 | 61.1 | 63.9  | 63.3  | 64.8  | 65.1  | 60.2  | 49.5  |      |      |      |      |      |      |
| NFA 53A7. RPM      | 46.6  | 47.4 | 51.6 | 56.9 | 57.5 | 62.1  | 63.0  | 62.1  | 60.7  | 57.2  | 45.0  |      |      |      |      |      |      |
| ( 584. RAD/SEC)    | 46.2  | 48.6 | 51.5 | 56.4 | 57.3 | 61.6  | 63.7  | 63.8  | 62.3  | 56.9  | 45.0  |      |      |      |      |      |      |
| NFK 5522. RPM      | 43.8  | 46.3 | 49.4 | 54.1 | 54.0 | 60.8  | 61.8  | 61.7  | 59.8  | 54.6  | 42.3  |      |      |      |      |      |      |
| ( 578. RAD/SEC)    | 41.1  | 44.5 | 47.3 | 52.7 | 53.6 | 58.3  | 60.0  | 59.8  | 58.3  | 53.0  | 39.7  |      |      |      |      |      |      |
| NFD 8823. RPM      | 37.8  | 41.3 | 44.4 | 50.0 | 53.3 | 56.2  | 57.3  | 57.1  | 55.0  | 49.9  | 35.6  |      |      |      |      |      |      |
| ( 924. RAD/SEC)    | 35.2  | 39.7 | 42.1 | 48.3 | 51.7 | 53.9  | 55.5  | 55.9  | 54.7  | 46.9  | 32.0  |      |      |      |      |      |      |
| NO. OF BLADES 15   | 31.4  | 34.4 | 37.9 | 43.7 | 49.0 | 50.1  | 51.8  | 52.2  | 49.8  | 41.9  | 29.8  |      |      |      |      |      |      |
| FAN TIP SPEED      | 27.7  | 27.9 | 31.4 | 37.1 | 41.2 | 43.8  | 46.2  | 44.1  | 43.5  | 33.0  | 13.5  |      |      |      |      |      |      |
| 476. FT/SEC        | 16.4  | 20.4 | 24.4 | 31.1 | 35.2 | 38.9  | 39.1  | 39.0  | 36.2  | 23.7  |       |      |      |      |      |      |      |
|                    | 25000 | 5.7  | 11.2 | 14.9 | 22.1 | 25.5  | 28.1  | 29.5  | 28.4  | 23.5  | 9.4   |      |      |      |      |      |      |
|                    | 31500 |      |      | 2.5  | 10.5 | 13.6  | 17.2  | 17.3  | 15.1  | 8.5   |       |      |      |      |      |      |      |
|                    | 40000 |      |      |      |      |       |       |       |       |       |       |      |      |      |      |      |      |
|                    | 50000 |      |      |      |      |       |       |       |       |       |       |      |      |      |      |      |      |
|                    | 63000 |      |      |      |      |       |       |       |       |       |       |      |      |      |      |      |      |
|                    | 80000 |      |      |      |      |       |       |       |       |       |       |      |      |      |      |      |      |
| OVERALL CALCULATED | 59.2  | 61.2 | 63.4 | 67.0 | 69.2 | 71.4  | 72.4  | 72.0  | 70.8  | 67.1  | 57.9  |      |      |      |      |      |      |
| PHCR               | 71.3  | 73.6 | 76.1 | 79.8 | 82.3 | 84.7  | 85.9  | 85.5  | 84.8  | 80.6  | 70.4  |      |      |      |      |      |      |



|                              | 51°    | 52°    | 71°    | 71°    | 71°    | 101°   | 111°   | 122°   | 133°   | 145°   | 156°   | 0° | 0°   | 0°   | 0°   | 0°   |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|------|------|------|------|
| FR                           | (0.82) | (1.00) | (1.24) | (1.41) | (1.59) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0. | 100. | 100. | 100. | 100. |
| STELINE 200. FT.             | 50.6   | 52.7   | 52.1   | 54.5   | 53.5   | 49.4   | 46.7   | 45.6   | 47.8   | 49.8   | 50.3   |    |      |      |      |      |
| VEHICLE 60.96 V <sub>1</sub> | 49.0   | 48.8   | 47.7   | 47.7   | 50.7   | 47.7   | 47.8   | 50.0   | 50.7   | 50.3   | 51.3   |    |      |      |      |      |
| CONFIG 75-1F                 | 44.2   | 46.0   | 45.4   | 47.9   | 47.7   | 47.8   | 50.0   | 50.7   | 50.3   | 51.3   | 49.1   |    |      |      |      |      |
| LCC SCHEDULE                 | 44.1   | 45.1   | 45.9   | 47.7   | 49.4   | 51.2   | 51.4   | 52.6   | 52.2   | 52.4   | 50.2   |    |      |      |      |      |
| DATE 1/17/75                 | 45.2   | 49.1   | 49.5   | 50.4   | 51.2   | 51.1   | 52.1   | 52.0   | 51.4   | 51.0   | 48.2   |    |      |      |      |      |
| RUN 59/2                     | 314    | 44.4   | 50.2   | 50.9   | 52.3   | 52.2   | 42.5   | 53.0   | 52.1   | 51.5   | 50.5   |    |      |      |      |      |
| TAFE                         | 470    | 45.1   | 47.6   | 47.6   | 51.9   | 51.1   | 51.7   | 51.9   | 52.3   | 51.1   | 50.2   |    |      |      |      |      |
| BAR 30.2 MC                  | 500    | 45.5   | 47.9   | 48.2   | 50.2   | 50.5   | 51.6   | 52.4   | 52.7   | 51.3   | 50.3   |    |      |      |      |      |
| (01890. 4/42)                | 430    | 42.6   | 49.7   | 51.9   | 53.1   | 54.5   | 54.8   | 56.8   | 55.6   | 54.1   | 51.9   |    |      |      |      |      |
| TAMB 33. DEG F               | 800    | 45.8   | 50.1   | 51.0   | 52.9   | 53.5   | 54.5   | 55.3   | 55.5   | 54.2   | 52.4   |    |      |      |      |      |
| (274. DEG F)                 | 1000   | 45.5   | 48.7   | 49.9   | 52.4   | 54.2   | 55.8   | 57.7   | 57.3   | 57.1   | 54.2   |    |      |      |      |      |
| TACT 24. DEG F               | 1250   | 45.7   | 50.3   | 52.5   | 55.4   | 58.2   | 59.0   | 60.4   | 60.7   | 54.9   | 56.8   |    |      |      |      |      |
| (249. DEG F)                 | 1600   | 55.7   | 55.7   | 59.6   | 63.0   | 64.9   | 65.1   | 67.2   | 66.5   | 64.7   | 62.5   |    |      |      |      |      |
| MACT 0.83 1/1/73             | 2000   | 51.5   | 53.5   | 56.2   | 59.5   | 62.1   | 63.4   | 64.9   | 62.7   | 60.7   | 56.7   |    |      |      |      |      |
| (.00083 KG/M <sup>3</sup> )  | 2500   | 47.8   | 53.5   | 56.0   | 59.4   | 62.5   | 64.8   | 65.2   | 63.3   | 62.4   | 56.9   |    |      |      |      |      |
| NFA 6151. RPM                | 3100   | 57.3   | 56.7   | 57.1   | 51.5   | 64.7   | 67.2   | 66.4   | 67.1   | 67.5   | 67.6   |    |      |      |      |      |
| (644. 1/1/75)                | 4000   | 47.1   | 52.2   | 55.4   | 59.7   | 62.4   | 64.7   | 66.1   | 65.5   | 63.4   | 57.3   |    |      |      |      |      |
| NFK 6311. RPM                | 5000   | 48.2   | 51.1   | 54.5   | 59.4   | 62.9   | 64.6   | 66.0   | 65.1   | 63.7   | 57.0   |    |      |      |      |      |
| (691. 1/1/75)                | 6300   | 46.0   | 49.3   | 52.2   | 57.0   | 60.5   | 62.4   | 64.2   | 64.1   | 61.6   | 54.4   |    |      |      |      |      |
| NFD 6423. RPM                | 8000   | 41.0   | 46.3   | 49.2   | 54.3   | 59.0   | 62.1   | 62.0   | 61.4   | 59.1   | 51.8   |    |      |      |      |      |
| (824. 1/1/75)                | 10000  | 39.1   | 43.8   | 47.0   | 53.4   | 58.4   | 58.5   | 60.0   | 60.0   | 58.5   | 49.3   |    |      |      |      |      |
| NO. OF BLADES 15             | 12500  | 34.1   | 39.2   | 43.8   | 49.9   | 53.7   | 54.2   | 56.3   | 56.7   | 54.0   | 44.1   |    |      |      |      |      |
| FAN TIP SPEED 16000          | 20000  | 27.9   | 32.2   | 36.0   | 42.2   | 46.0   | 47.9   | 49.6   | 49.9   | 46.6   | 39.0   |    |      |      |      |      |
| 537. FT/SEC                  | 25000  | 21.4   | 25.5   | 30.3   | 36.7   | 42.2   | 42.0   | 44.1   | 43.5   | 41.0   | 27.1   |    |      |      |      |      |
|                              | 31500  | 11.2   | 16.3   | 20.5   | 27.6   | 31.2   | 33.5   | 35.2   | 33.2   | 28.4   | 12.6   |    |      |      |      |      |
|                              | 40000  |        | 3.0    | 8.5    | 15.8   | 19.6   | 22.1   | 22.3   | 19.9   | 12.2   |        |    |      |      |      |      |
|                              | 50000  |        |        |        |        | 0.7    | 2.9    | 3.2    |        |        |        |    |      |      |      |      |
|                              | 60000  |        |        |        |        |        |        |        |        |        |        |    |      |      |      |      |
|                              | 80000  |        |        |        |        |        |        |        |        |        |        |    |      |      |      |      |
| OVERALL CALCULATOR           | 62.3   | 64.2   | 66.5   | 70.3   | 72.6   | 74.3   | 75.5   | 74.7   | 73.5   | 69.1   | 60.9   |    |      |      |      |      |
| PMDF                         | 74.7   | 77.2   | 79.6   | 83.6   | 86.4   | 88.3   | 89.4   | 88.5   | 87.9   | 83.3   | 73.3   |    |      |      |      |      |



MODEL SOUND PRESSURE LEVELS (59. DFG, F, 70 PERCENT REL. HUM. EAV)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                            | 57.5   | 62.5   | 71.0   | 81.0   | 91.0   | 101.0  | 111.0  | 122.0  | 133.0  | 145.0  | 156.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
|                            | (1.00) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) |
| SIDELINE 200. FT.          | 63     |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
| (60.98 M)                  | 80     |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
| VEHICLE F-55               | 130    | 43.4   | 51.7   | 52.4   | 51.5   | 51.5   | 50.9   | 49.9   | 49.3   | 51.6   | 53.8   | 54.1  |       |       |       |       |       |
| CONFIG 75-1F               | 175    | 47.3   | 57.1   | 57.5   | 56.2   | 55.2   | 53.3   | 52.3   | 53.8   | 53.7   | 53.9   | 52.9  |       |       |       |       |       |
| LOC SCHEMECTADY            | 160    | 47.2   | 48.5   | 49.4   | 50.4   | 50.7   | 51.5   | 53.5   | 53.7   | 54.1   | 54.8   | 52.9  |       |       |       |       |       |
| DATE 1/17/75               | 200    | 46.3   | 47.4   | 48.4   | 51.0   | 52.3   | 53.9   | 54.2   | 55.3   | 55.2   | 55.6   | 54.2  |       |       |       |       |       |
| RUN 50/3                   | 250    | 50.2   | 51.3   | 52.5   | 54.4   | 54.3   | 54.2   | 55.9   | 55.9   | 55.2   | 55.4   | 55.0  | 52.7  |       |       |       |       |
| TAPE                       | 315    | 51.4   | 53.2   | 54.2   | 55.4   | 55.7   | 55.5   | 55.7   | 55.6   | 55.3   | 54.6   | 52.0  |       |       |       |       |       |
| BAR 30-2 HG                | 400    | 49.4   | 51.1   | 52.1   | 53.4   | 53.8   | 54.0   | 54.7   | 54.4   | 54.4   | 54.2   | 50.5  |       |       |       |       |       |
| (01800. H/M <sup>2</sup> ) | 500    | 44.2   | 49.0   | 53.7   | 52.2   | 53.0   | 43.9   | 54.8   | 55.2   | 54.5   | 53.5   | 49.6  |       |       |       |       |       |
| TAMP 32. DEG F             | 630    | 52.7   | 52.2   | 54.2   | 55.9   | 57.0   | 57.3   | 58.5   | 58.6   | 58.6   | 58.6   | 49.6  |       |       |       |       |       |
| (273. DEG K)               | 850    | 51.7   | 51.3   | 51.5   | 51.3   | 51.5   | 47.0   | 50.1   | 57.7   | 57.7   | 54.9   | 48.8  |       |       |       |       |       |
| INLET 23. DEG F            | 1000   | 49.1   | 51.2   | 52.2   | 51.4   | 51.7   | 50.4   | 59.7   | 59.8   | 59.1   | 54.2   | 48.2  |       |       |       |       |       |
| (268. DEG K)               | 1250   | 50.5   | 51.9   | 54.0   | 56.9   | 59.1   | 60.7   | 62.3   | 61.4   | 60.4   | 56.8   | 45.3  |       |       |       |       |       |
| NACT 0.69 CM/MS            | 1600   | 55.8   | 57.4   | 59.1   | 63.2   | 66.8   | 69.3   | 70.1   | 68.4   | 66.7   | 62.7   | 51.9  |       |       |       |       |       |
| (00069 CM/MS)              | 2000   | 54.8   | 57.2   | 59.6   | 63.5   | 66.1   | 67.9   | 68.4   | 67.5   | 65.7   | 60.4   | 51.2  |       |       |       |       |       |
| NFA 620. RPM               | 2500   | 52.9   | 55.5   | 59.2   | 62.4   | 64.2   | 67.7   | 67.7   | 65.7   | 64.4   | 57.9   | 48.9  |       |       |       |       |       |
| (725. RPM/SEC)             | 3150   | 53.4   | 56.2   | 59.4   | 64.4   | 67.6   | 69.2   | 70.4   | 68.8   | 68.2   | 61.1   | 51.4  |       |       |       |       |       |
| NFK 7107. RPM              | 4000   | 52.8   | 55.6   | 59.1   | 64.1   | 67.2   | 68.9   | 70.1   | 69.2   | 67.3   | 60.0   | 50.2  |       |       |       |       |       |
| (744. RPM/SEC)             | 5000   | 51.7   | 54.8   | 58.2   | 63.3   | 65.8   | 67.9   | 69.5   | 69.4   | 66.9   | 59.8   | 48.0  |       |       |       |       |       |
| NPD 8823. RPM              | 6300   | 47.0   | 52.2   | 55.6   | 61.2   | 64.7   | 66.1   | 67.9   | 67.0   | 65.6   | 56.9   | 45.2  |       |       |       |       |       |
| (924. RPM/SEC)             | 8000   | 45.6   | 50.0   | 52.9   | 59.2   | 62.5   | 64.8   | 65.9   | 65.1   | 63.6   | 54.3   | 41.9  |       |       |       |       |       |
| NO. OF BLADES 15           | 10000  | 42.8   | 47.0   | 51.4   | 57.4   | 60.4   | 63.2   | 63.9   | 63.7   | 61.9   | 52.2   | 38.8  |       |       |       |       |       |
| FAN TIP SPEED 604. FT/SEC  | 12500  | 39.3   | 43.2   | 47.2   | 54.5   | 57.4   | 59.9   | 60.4   | 59.9   | 57.6   | 47.0   | 31.8  |       |       |       |       |       |
|                            | 16000  | 31.3   | 35.7   | 40.7   | 46.9   | 50.7   | 53.1   | 54.6   | 54.9   | 50.6   | 38.3   | 28.3  |       |       |       |       |       |
|                            | 20000  | 24.3   | 29.2   | 34.5   | 41.6   | 45.1   | 46.8   | 49.3   | 48.4   | 44.2   | 30.3   | 6.8   |       |       |       |       |       |
|                            | 25000  | 17.0   | 19.7   | 24.0   | 33.3   | 36.4   | 38.0   | 39.4   | 38.4   | 33.1   | 18.5   |       |       |       |       |       |       |
|                            | 31500  |        | 6.9    | 12.9   | 21.3   | 24.3   | 27.0   | 27.2   | 24.4   | 17.3   |        |       |       |       |       |       |       |
|                            | 40000  |        |        |        | 2.0    | 5.4    | 7.8    | 8.1    | 2.9    |        |        |       |       |       |       |       |       |
|                            | 50000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
|                            | 63000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
|                            | 80000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
| OVERALL CALCULATED         |        | 64.2   | 66.9   | 69.0   | 73.0   | 75.9   | 77.6   | 78.6   | 77.7   | 76.1   | 70.6   | 63.8  |       |       |       |       |       |
| PND0                       |        | 76.8   | 79.6   | 82.2   | 86.6   | 89.5   | 91.0   | 92.1   | 91.1   | 89.9   | 83.9   | 75.1  |       |       |       |       |       |



|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 143    | 153    | 0     | 0     | 0     | 0     | 0     |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| PREC.              | (0.92) | (1.09) | (1.29) | (1.41) | (1.54) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0     | 0     | 0     | 0     | 0     |
| SIGNAL 200. FT.    | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50    | 50    | 50    | 50    | 50    |
| (50.96 F.)         | 41     | 41     | 41     | 41     | 41     | 41     | 41     | 41     | 41     | 41     | 41     | 41    | 41    | 41    | 41    | 41    |
| VEHICLE            | 100    | 124    | 124    | 124    | 124    | 124    | 124    | 124    | 124    | 124    | 124    | 124   | 124   | 124   | 124   | 124   |
| CONFIG 75-1F       | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160   | 160   | 160   | 160   | 160   |
| L-C SCHEDULE       | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200   | 200   | 200   | 200   | 200   |
| DATE 1/17/75       | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250   | 250   | 250   | 250   | 250   |
| RUN: 59/4          | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315   | 315   | 315   | 315   | 315   |
| TAPE               | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400   | 400   | 400   | 400   | 400   |
| RIP 33-2 MC        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500   | 500   | 500   | 500   | 500   |
| (01090. 1/1/71)    | 430    | 430    | 430    | 430    | 430    | 430    | 430    | 430    | 430    | 430    | 430    | 430   | 430   | 430   | 430   | 430   |
| TAP 32. SEC F      | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800   | 800   | 800   | 800   | 800   |
| (273. SEC F)       | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000  | 1000  | 1000  | 1000  | 1000  |
| T-ET 23. SEC F     | 1200   | 1200   | 1200   | 1200   | 1200   | 1200   | 1200   | 1200   | 1200   | 1200   | 1200   | 1200  | 1200  | 1200  | 1200  | 1200  |
| (264. SEC F)       | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600  | 1600  | 1600  | 1600  | 1600  |
| HACT 0.69 CM/MS    | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000  | 2000  | 2000  | 2000  | 2000  |
| (.00009 KG/MS)     | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500  | 2500  | 2500  | 2500  | 2500  |
| WFA 762. RPM       | 3100   | 3100   | 3100   | 3100   | 3100   | 3100   | 3100   | 3100   | 3100   | 3100   | 3100   | 3100  | 3100  | 3100  | 3100  | 3100  |
| ( 835. RA/SEC)     | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000  | 4000  | 4000  | 4000  | 4000  |
| NFR 7892. RPM      | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000  | 5000  | 5000  | 5000  | 5000  |
| ( 426. RA/SEC)     | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300  | 6300  | 6300  | 6300  | 6300  |
| NFD 4823. RPM      | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000  | 8000  | 8000  | 8000  | 8000  |
| ( 924. RA/SEC)     | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000 | 10000 | 10000 | 10000 | 10000 |
| NO. OF BLADES      | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15     | 15    | 15    | 15    | 15    | 15    |
| FAN TIP SPEED      | 18000  | 18000  | 18000  | 18000  | 18000  | 18000  | 18000  | 18000  | 18000  | 18000  | 18000  | 18000 | 18000 | 18000 | 18000 | 18000 |
| 671. FT/SEC        | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000 | 20000 | 20000 | 20000 | 20000 |
|                    | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000 | 25000 | 25000 | 25000 | 25000 |
|                    | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500 | 31500 | 31500 | 31500 | 31500 |
|                    | 48000  | 48000  | 48000  | 48000  | 48000  | 48000  | 48000  | 48000  | 48000  | 48000  | 48000  | 48000 | 48000 | 48000 | 48000 | 48000 |
|                    | 58000  | 58000  | 58000  | 58000  | 58000  | 58000  | 58000  | 58000  | 58000  | 58000  | 58000  | 58000 | 58000 | 58000 | 58000 | 58000 |
|                    | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000 | 63000 | 63000 | 63000 | 63000 |
|                    | 83000  | 83000  | 83000  | 83000  | 83000  | 83000  | 83000  | 83000  | 83000  | 83000  | 83000  | 83000 | 83000 | 83000 | 83000 | 83000 |
| OVERALL CAL. AT 20 | 66.0   | 70.1   | 72.7   | 74.9   | 76.8   | 80.5   | 81.4   | 81.8   | 78.7   | 72.8   | 67.3   |       |       |       |       |       |
| PH 20              | 81.5   | 83.8   | 86.2   | 90.8   | 92.4   | 94.8   | 95.1   | 94.9   | 92.4   | 86.1   | 78.8   |       |       |       |       |       |





|                          | 51.0   | 61.0   | 71.0   | 81.0   | 91.0   | 101.0  | 111.0  | 121.0  | 131.0  | 141.0  | 151.0  | 0.   | 0.   | 0. | 0. | 0. |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|----|----|----|
| PR. NO.                  | (0.32) | (1.04) | (1.76) | (2.48) | (3.20) | (3.92) | (4.64) | (5.36) | (6.08) | (6.80) | (7.52) | 0.   | 0.   | 0. | 0. | 0. |
| SYDLINE 230. FT.         | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     |      |      |    |    |    |
| VEHICLE (80.96 M)        | 170    | 44.6   | 48.7   | 53.6   | 51.4   | 52.3   | 52.7   | 52.4   | 52.1   | 54.3   | 57.3   | 57.6 |      |    |    |    |
| CONFIG 75-1F             | 124    | 52.3   | 51.3   | 54.7   | 54.9   | 55.5   | 54.3   | 54.1   | 54.4   | 54.5   | 54.9   | 56.9 | 56.9 |    |    |    |
| LCC SCHEMECTADY          | 170    | 43.9   | 51.3   | 52.2   | 54.1   | 53.7   | 54.5   | 56.4   | 56.7   | 57.3   | 54.0   | 56.6 |      |    |    |    |
| DATE 1/17/75             | 230    | 49.6   | 56.1   | 51.4   | 53.7   | 54.9   | 48.7   | 57.9   | 58.1   | 58.8   | 54.9   | 57.4 |      |    |    |    |
| R.A. 50/5                | 270    | 53.2   | 54.3   | 54.2   | 57.3   | 58.2   | 54.6   | 60.1   | 60.5   | 59.0   | 59.5   | 57.0 |      |    |    |    |
| TAPP                     | 314    | 54.4   | 55.7   | 56.4   | 57.4   | 57.9   | 57.0   | 58.5   | 54.4   | 54.5   | 57.5   | 55.0 |      |    |    |    |
| BAR 30.2 HG              | 430    | 52.4   | 53.6   | 54.8   | 54.5   | 56.4   | 57.2   | 57.0   | 57.8   | 37.1   | 57.2   | 54.5 |      |    |    |    |
| (81650. 44/2)            | 500    | 59.7   | 57.8   | 53.5   | 54.7   | 55.5   | 58.9   | 54.1   | 54.4   | 57.4   | 54.3   | 52.0 |      |    |    |    |
| TAMP 32. DEG F           | 630    | 53.1   | 53.7   | 56.2   | 57.1   | 58.7   | 59.6   | 61.0   | 60.1   | 59.1   | 54.9   | 52.0 |      |    |    |    |
| 1233. DEG F              | 800    | 34.3   | 54.4   | 56.0   | 54.3   | 58.6   | 46.2   | 60.4   | 60.2   | 59.9   | 54.9   | 52.3 |      |    |    |    |
| Y-CT 23. DEG F           | 1030   | 52.4   | 53.4   | 54.7   | 57.7   | 58.5   | 47.4   | 62.2   | 61.8   | 60.4   | 57.2   | 50.7 |      |    |    |    |
| (268. DEG F)             | 1250   | 53.0   | 53.8   | 56.0   | 57.4   | 61.1   | 62.7   | 64.3   | 63.4   | 61.0   | 57.5   | 50.6 |      |    |    |    |
| MACT 0.69 CM/FT          | 1470   | 55.3   | 56.9   | 59.1   | 62.4   | 64.5   | 44.4   | 64.1   | 66.4   | 64.4   | 54.7   | 50.2 |      |    |    |    |
| (100360 CM/FT)           | 2070   | 47.4   | 65.3   | 67.6   | 70.5   | 71.3   | 73.4   | 74.4   | 74.5   | 71.0   | 64.9   | 50.4 |      |    |    |    |
| MFA 7479. RPM            | 2500   | 56.3   | 54.4   | 61.7   | 64.5   | 64.9   | 70.7   | 69.7   | 68.7   | 67.2   | 59.3   | 50.9 |      |    |    |    |
| (834. 44/RPM)            | 3100   | 55.7   | 54.2   | 60.9   | 62.9   | 69.4   | 70.4   | 71.4   | 68.4   | 68.2   | 60.1   | 50.7 |      |    |    |    |
| MFR 7087. RPM            | 4000   | 57.3   | 63.1   | 64.3   | 67.9   | 71.2   | 72.4   | 73.6   | 74.0   | 71.1   | 63.5   | 54.7 |      |    |    |    |
| (826. 44/RPM)            | 5000   | 53.7   | 56.5   | 60.7   | 64.5   | 68.9   | 70.9   | 72.0   | 70.6   | 68.0   | 60.3   | 49.0 |      |    |    |    |
| MFC 8823. RPM            | 6300   | 52.5   | 55.7   | 59.4   | 64.4   | 67.7   | 70.8   | 71.4   | 70.5   | 69.4   | 59.4   | 48.8 |      |    |    |    |
| (924. 740/SEC)           | 8000   | 49.1   | 53.3   | 57.1   | 62.5   | 65.2   | 67.3   | 64.7   | 64.3   | 65.4   | 56.5   | 44.1 |      |    |    |    |
| NO. OF PLACES 16         | 10000  | 44.1   | 50.7   | 54.0   | 61.6   | 64.1   | 66.2   | 67.4   | 67.4   | 64.5   | 54.8   | 40.6 |      |    |    |    |
| PM TIP SPEED 670. FT/SEC | 12500  | 42.4   | 43.9   | 51.2   | 54.3   | 67.0   | 43.1   | 64.9   | 63.4   | 60.0   | 49.8   | 34.0 |      |    |    |    |
|                          | 16000  | 31.8   | 39.2   | 44.2   | 50.4   | 54.7   | 54.6   | 57.5   | 57.9   | 53.6   | 40.3   | 22.8 |      |    |    |    |
|                          | 20000  | 27.6   | 32.9   | 38.7   | 45.9   | 48.6   | 51.3   | 52.3   | 52.4   | 47.5   | 32.0   | 19.3 |      |    |    |    |
|                          | 25000  | 17.9   | 23.7   | 29.9   | 37.4   | 40.4   | 42.7   | 43.9   | 42.7   | 37.1   | 19.8   |      |      |    |    |    |
|                          | 31500  | 3.2    | 10.7   | 17.6   | 24.0   | 29.0   | 31.3   | 31.2   | 29.1   | 20.8   |        |      |      |    |    |    |
|                          | 40000  |        |        |        | 6.2    | 9.6    | 12.5   | 12.4   | 7.1    |        |        |      |      |    |    |    |
|                          | 50000  |        |        |        |        |        |        |        |        |        |        |      |      |    |    |    |
|                          | 63000  |        |        |        |        |        |        |        |        |        |        |      |      |    |    |    |
|                          | 80000  |        |        |        |        |        |        |        |        |        |        |      |      |    |    |    |
| OVERALL CALCULATED       |        | 68.2   | 70.8   | 72.7   | 74.6   | 78.6   | 80.5   | 81.4   | 80.8   | 78.9   | 72.4   | 67.2 |      |    |    |    |
| PRCP                     |        | 81.8   | 83.5   | 86.3   | 90.3   | 92.4   | 94.0   | 94.9   | 94.7   | 92.6   | 85.9   | 78.1 |      |    |    |    |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PRNC. DATE = MONTH 3 DAY 26 NO. 14.0

MODEL 5110 (MILITARY) LEVEL 150. DEG. F. 70 PERCENT REL. HUM. (AVG)

ANGLES FROM INLET IN DEGREES (AID MAGLANS)

| PRNC.                     | 50    | 60   | 70   | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     |       |
|---------------------------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-------|-------|
| (No. 21)                  | (1)   | (3)  | (1)  | (24)  | (1)   | (4)   | (1)   | (5)   | (1)   | (7)   | (1)   | (4)   | (2) | (3) | (2) | (5) | (2) | (7) | (3)   |       |
| RADIAL 17. FT.            | 150   | 70.2 | 73.9 | 76.9  | 78.0  | 77.3  | 77.9  | 73.7  | 68.8  | 72.2  | 74.5  | 76.7  |     |     |     |     |     |     | 110.1 |       |
| VEHICLE (S. M)            | 125   | 67.5 | 65.2 | 71.4  | 69.7  | 67.3  | 67.4  | 67.5  | 71.3  | 77.0  | 73.3  | 74.9  |     |     |     |     |     |     |       | 104.5 |
| COEFIC 75-1F              | 160   | 44.5 | 44.7 | 44.9  | 47.5  | 46.1  | 46.4  | 46.8  | 70.1  | 71.7  | 73.0  | 74.9  |     |     |     |     |     |     |       | 103.3 |
| LCC SCHEMECTARY           | 250   | 44.3 | 64.4 | 64.5  | 64.5  | 67.3  | 67.9  | 68.8  | 71.7  | 72.2  | 74.5  | 76.4  |     |     |     |     |     |     |       | 104.4 |
| DATE 1/17/75              | 250   | 66.5 | 66.9 | 65.4  | 64.9  | 69.3  | 69.9  | 71.0  | 72.0  | 72.7  | 73.0  | 75.1  |     |     |     |     |     |     |       | 104.0 |
| QU. 57/6                  | 314   | 69.2 | 70.4 | 71.1  | 71.3  | 71.3  | 71.9  | 71.4  | 72.2  | 73.0  | 73.6  | 74.4  |     |     |     |     |     |     |       | 105.0 |
| TYPE                      | 450   | 67.0 | 67.0 | 63.2  | 77.3  | 69.3  | 70.9  | 71.3  | 72.3  | 72.7  | 73.5  | 74.2  |     |     |     |     |     |     |       | 105.1 |
| BAR 30.2 HC               | 530   | 67.6 | 67.5 | 67.7  | 67.8  | 69.3  | 70.5  | 71.8  | 73.0  | 74.0  | 74.3  | 73.9  |     |     |     |     |     |     |       | 105.3 |
| (01000 W/21)              | 630   | 70.1 | 70.5 | 71.4  | 72.5  | 73.5  | 73.9  | 76.1  | 74.5  | 76.5  | 76.3  | 74.4  |     |     |     |     |     |     |       | 106.0 |
| TAMP 30.2 DEG F           | 420   | 70.4 | 71.3 | 76.7  | 77.3  | 73.1  | 74.5  | 75.3  | 76.8  | 77.5  | 77.6  | 74.7  |     |     |     |     |     |     |       | 106.7 |
| (273. DEG K)              | 1000  | 68.6 | 69.7 | 69.9  | 72.3  | 73.9  | 74.2  | 78.0  | 79.5  | 80.7  | 80.3  | 75.5  |     |     |     |     |     |     |       | 110.9 |
| TACT 23. DEG F            | 1250  | 77.9 | 76.8 | 75.0  | 81.1  | 82.7  | 85.3  | 84.3  | 87.0  | 87.3  | 86.9  | 81.7  |     |     |     |     |     |     |       | 110.6 |
| (244. DEG K)              | 1450  | 71.3 | 74.1 | 75.2  | 77.4  | 80.5  | 82.5  | 84.5  | 84.8  | 84.5  | 84.1  | 79.0  |     |     |     |     |     |     |       | 113.0 |
| HACT 0-60 CM/K3           | 2050  | 73.3 | 74.3 | 76.5  | 79.7  | 81.2  | 83.3  | 84.5  | 84.8  | 84.3  | 83.9  | 79.2  |     |     |     |     |     |     |       | 110.2 |
| (-00000 FG/M3)            | 2510  | 75.8 | 74.6 | 74.4  | 81.2  | 84.7  | 87.5  | 89.3  | 89.5  | 91.8  | 89.6  | 83.9  |     |     |     |     |     |     |       | 121.2 |
| MFA 5377. RPM             | 3150  | 72.0 | 74.3 | 75.4  | 78.7  | 82.7  | 84.5  | 87.4  | 86.9  | 88.2  | 86.9  | 81.4  |     |     |     |     |     |     |       | 110.7 |
| (583. RPM/SEC)            | 4000  | 72.5 | 74.3 | 75.5  | 78.1  | 81.4  | 84.7  | 87.8  | 87.3  | 90.4  | 87.3  | 81.3  |     |     |     |     |     |     |       | 110.0 |
| MFK 5523. RPM             | 5000  | 79.9 | 72.2 | 74.2  | 77.3  | 82.6  | 84.6  | 86.5  | 87.5  | 88.8  | 85.7  | 79.4  |     |     |     |     |     |     |       | 110.2 |
| (578. RPM/SEC)            | 6330  | 69.2 | 70.6 | 73.1  | 77.4  | 81.9  | 83.9  | 85.7  | 87.0  | 87.2  | 85.1  | 78.5  |     |     |     |     |     |     |       | 117.5 |
| MFD 8823. RPM             | 8300  | 66.5 | 69.4 | 71.2  | 74.8  | 79.3  | 82.3  | 83.4  | 85.1  | 86.3  | 83.9  | 77.7  |     |     |     |     |     |     |       | 114.1 |
| (924. RPM/SEC)            | 11000 | 66.3 | 68.4 | 69.6  | 75.7  | 79.4  | 81.5  | 84.0  | 85.7  | 87.0  | 84.1  | 77.8  |     |     |     |     |     |     |       | 116.6 |
| NO. OF BLADES 15          | 12500 | 65.3 | 66.8 | 68.0  | 73.9  | 78.1  | 79.7  | 82.7  | 84.6  | 86.2  | 82.5  | 76.0  |     |     |     |     |     |     |       | 115.5 |
| FAN TIP SPEED 460. FT/SEC | 16050 | 62.5 | 64.2 | 65.3  | 70.5  | 74.2  | 77.0  | 80.4  | 82.6  | 84.2  | 80.0  | 74.7  |     |     |     |     |     |     |       | 113.7 |
|                           | 20000 | 61.1 | 62.2 | 63.0  | 69.1  | 73.7  | 75.9  | 78.7  | 81.6  | 83.8  | 79.7  | 73.1  |     |     |     |     |     |     |       | 113.2 |
|                           | 25000 | 59.1 | 61.4 | 61.9  | 67.1  | 70.5  | 72.7  | 76.4  | 78.7  | 80.9  | 76.5  | 70.2  |     |     |     |     |     |     |       | 111.0 |
|                           | 31500 | 57.4 | 58.6 | 60.2  | 64.2  | 67.0  | 72.1  | 74.9  | 77.0  | 79.3  | 75.2  | 68.1  |     |     |     |     |     |     |       | 110.0 |
|                           | 40000 | 55.3 | 55.8 | 57.5  | 61.9  | 65.1  | 68.2  | 72.3  | 73.4  | 75.3  | 72.0  | 62.1  |     |     |     |     |     |     |       | 108.2 |
|                           | 50000 | 55.7 | 54.8 | 57.3  | 59.3  | 60.3  | 63.9  | 67.3  | 68.0  | 69.3  | 67.4  | 57.2  |     |     |     |     |     |     |       | 104.9 |
|                           | 63000 | 55.6 | 53.0 | 56.1  | 55.5  | 54.2  | 58.1  | 60.3  | 60.6  | 62.0  | 60.3  | 54.0  |     |     |     |     |     |     |       | 101.3 |
|                           | 80000 | 57.2 | 57.5 | 55.7  | 54.8  | 54.3  | 54.0  | 55.4  | 54.8  | 55.3  | 54.3  | 52.5  |     |     |     |     |     |     |       | 102.2 |
| OVERALL MEASURED          |       |      |      |       |       |       |       |       |       |       |       |       |     |     |     |     |     |     |       |       |
| OVERALL CALCULATED        |       | 84.5 | 85.5 | 86.8  | 86.3  | 93.0  | 95.2  | 97.0  | 97.9  | 99.0  | 97.2  | 91.9  |     |     |     |     |     |     |       | 129.2 |
| PMN                       |       | 97.4 | 98.4 | 100.0 | 103.1 | 106.0 | 108.3 | 110.0 | 110.9 | 111.9 | 110.3 | 105.3 |     |     |     |     |     |     |       |       |

ORIGINAL PAGE IS OF POOR QUALITY

VALUES FROM JULY IN BRACKETED AND HIGHLIGHTED

|                       | 63   | 64   | 71   | 71   | 91   | 101  | 111  | 122  | 133  | 145  | 154  | 160 | 170 | 180 | 190 | 200 |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| SITELINE 200. FT.     | 46.5 | 51.2 | 44.5 | 57.9 | 57.7 | 56.2 | 51.1 | 45.7 | 47.4 | 48.5 | 46.6 |     |     |     |     |     |
| VEHICLE 8-55          | 43.7 | 46.4 | 49.3 | 44.2 | 47.7 | 45.4 | 45.2 | 44.1 | 47.4 | 45.8 | 44.7 |     |     |     |     |     |
| CMPIC 75-1F           | 40.6 | 41.3 | 42.7 | 44.5 | 44.6 | 44.5 | 46.4 | 47.8 | 47.3 | 46.4 | 47.5 |     |     |     |     |     |
| LTC SCHEMECTADY       | 43.0 | 43.4 | 42.3 | 44.5 | 45.2 | 45.9 | 47.3 | 48.4 | 47.5 | 47.6 | 47.6 |     |     |     |     |     |
| DATE 1/17/75          | 47.4 | 43.9 | 46.3 | 47.3 | 47.4 | 47.4 | 48.5 | 47.5 | 47.8 | 46.7 | 44.3 |     |     |     |     |     |
| RMI 5/1/6             | 45.1 | 47.3 | 47.7 | 48.1 | 49.3 | 49.8 | 49.1 | 48.7 | 48.8 | 46.5 | 43.3 |     |     |     |     |     |
| TAFE                  | 42.7 | 44.7 | 45.5 | 47.1 | 47.8 | 47.7 | 48.4 | 48.6 | 47.4 | 46.1 | 42.8 |     |     |     |     |     |
| BAR 30.2 MG           | 41.2 | 44.1 | 45.9 | 47.5 | 47.2 | 48.1 | 49.8 | 49.3 | 48.4 | 46.7 | 42.4 |     |     |     |     |     |
| (31890. 4/1/71)       | 44.4 | 47.3 | 47.7 | 50.4 | 51.4 | 52.6 | 53.1 | 52.7 | 51.1 | 48.0 | 42.0 |     |     |     |     |     |
| PARA 32. SEC F        | 47.7 | 48.9 | 47.9 | 49.3 | 52.0 | 52.0 | 52.3 | 52.8 | 52.8 | 48.8 | 42.6 |     |     |     |     |     |
| 1273. SEC K1          | 43.8 | 44.8 | 46.9 | 47.7 | 51.4 | 53.8 | 54.5 | 55.4 | 55.8 | 52.8 | 43.8 |     |     |     |     |     |
| T-ET 23. SEC F        | 41.8 | 42.0 | 43.8 | 44.4 | 47.1 | 47.5 | 48.8 | 48.7 | 48.4 | 46.4 | 40.9 |     |     |     |     |     |
| 1250. SEC F           | 48.7 | 49.9 | 51.3 | 51.5 | 52.7 | 52.6 | 51.8 | 50.3 | 51.4 | 51.4 | 44.7 |     |     |     |     |     |
| MACT 8-67 2000        | 44.5 | 45.8 | 47.3 | 48.2 | 50.3 | 50.2 | 50.4 | 50.1 | 52.9 | 54.8 | 45.5 |     |     |     |     |     |
| 1.30060 45/31         | 47.8 | 49.1 | 49.7 | 49.9 | 51.6 | 44.2 | 55.4 | 54.6 | 55.1 | 50.3 | 49.7 |     |     |     |     |     |
| WPA 5377. 40"         | 46.8 | 48.5 | 51.6 | 54.2 | 53.3 | 51.9 | 53.3 | 51.7 | 51.2 | 52.9 | 46.5 |     |     |     |     |     |
| 543. 200/SEC          | 46.0 | 48.7 | 51.1 | 54.2 | 53.6 | 51.7 | 53.2 | 53.4 | 52.4 | 54.7 | 45.3 |     |     |     |     |     |
| MFK 5323. 20"         | 44.1 | 48.8 | 49.5 | 50.1 | 52.5 | 49.3 | 51.4 | 51.4 | 50.1 | 54.7 | 42.0 |     |     |     |     |     |
| 578. 200/SEC          | 41.4 | 44.3 | 47.6 | 52.5 | 52.1 | 50.5 | 50.1 | 50.1 | 50.3 | 52.8 | 40.8 |     |     |     |     |     |
| MFC 8423. 40"         | 47.3 | 41.8 | 44.8 | 49.8 | 54.1 | 50.2 | 50.4 | 50.9 | 55.8 | 49.7 | 36.4 |     |     |     |     |     |
| 1 824. 200/SEC        | 35.3 | 39.3 | 41.4 | 48.1 | 52.8 | 53.8 | 55.4 | 55.7 | 54.5 | 47.3 | 32.8 |     |     |     |     |     |
| NO. OF GLAZES 14      | 31.4 | 34.7 | 37.5 | 40.9 | 40.5 | 40.9 | 51.9 | 52.8 | 50.8 | 41.7 | 29.1 |     |     |     |     |     |
| PAN 710 SPEC          | 24.8 | 24.2 | 31.8 | 37.2 | 41.1 | 44.1 | 45.7 | 45.7 | 43.8 | 32.8 | 14.3 |     |     |     |     |     |
| 460. FT/SEC           | 16.8 | 20.7 | 24.5 | 30.9 | 35.8 | 37.8 | 34.9 | 39.8 | 38.5 | 24.8 | 8.3  |     |     |     |     |     |
| 25520                 | 5.6  | 11.2 | 15.2 | 22.9 | 25.8 | 27.4 | 28.3 | 28.8 | 24.1 | 8.7  |      |     |     |     |     |     |
| 31520                 |      |      | 2.9  | 10.1 | 14.5 | 18.8 | 17.1 | 15.4 | 8.6  |      |      |     |     |     |     |     |
| 48030                 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |
| 50030                 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |
| 63030                 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |
| 88030                 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |
| OVERALL CAL. CUR ATCR | 59.1 | 61.1 | 63.2 | 64.8 | 69.3 | 71.3 | 72.3 | 71.9 | 71.1 | 67.1 | 60.8 |     |     |     |     |     |
| PARA                  | 71.4 | 73.8 | 75.9 | 79.8 | 82.8 | 84.8 | 85.8 | 85.3 | 85.8 | 80.8 | 70.6 |     |     |     |     |     |



ANGLES FROM INLET IN DEGREES AND RADIANS

| FREQ.              | 53     | 62     | 71     | 81    | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0.   | 0. | 0. | 0. |  |
|--------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|--|
|                    | (0.92) | (1.08) | (1.24) | (1.4) | (1.56) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.   | 0. | 0. | 0. |  |
| SIDELINE 200. FT.  | 100    | 51.3   | 53.7   | 56.9  | 61.2   | 60.5   | 59.2   | 55.9   | 48.8   | 47.0   | 40.5   | 47.5 |    |    |    |  |
| VEHICLE (60.96 N)  | 125    | 44.0   | 46.1   | 49.5  | 44.6   | 49.7   | 49.1   | 45.1   | 46.5   | 46.9   | 45.4   | 45.1 |    |    |    |  |
| CONFIG R-54        | 160    | 41.4   | 42.5   | 43.4  | 46.6   | 46.6   | 46.8   | 47.2   | 47.2   | 47.7   | 47.0   | 45.1 |    |    |    |  |
| LCC SCHENECTADY    | 200    | 39.8   | 41.4   | 42.8  | 45.2   | 46.7   | 48.2   | 48.4   | 49.1   | 48.3   | 48.4   | 46.2 |    |    |    |  |
| DATE 1/17/75       | 250    | 42.6   | 44.1   | 46.0  | 47.6   | 47.7   | 48.3   | 48.8   | 48.5   | 48.1   | 47.2   | 44.5 |    |    |    |  |
| RUN 54/1           | 315    | 45.6   | 47.3   | 48.4  | 49.3   | 49.4   | 50.0   | 49.5   | 48.9   | 47.5   | 47.1   | 44.0 |    |    |    |  |
| TAPE               | 430    | 43.2   | 45.2   | 46.1  | 48.3   | 47.5   | 48.7   | 48.0   | 48.5   | 47.4   | 46.4   | 43.3 |    |    |    |  |
| BAR 29.7 MC        | 500    | 42.1   | 44.1   | 45.2  | 46.9   | 47.5   | 47.9   | 49.0   | 48.4   | 48.0   | 46.5   | 42.3 |    |    |    |  |
| (00401. R/M2)      | 630    | 44.0   | 47.2   | 48.3  | 50.8   | 51.4   | 51.8   | 52.0   | 52.5   | 50.6   | 48.8   | 42.5 |    |    |    |  |
| TAP 43. DEG F      | 800    | 46.1   | 47.1   | 48.0  | 49.7   | 50.1   | 51.9   | 52.0   | 52.7   | 51.7   | 49.5   | 43.0 |    |    |    |  |
| (279. DEG K)       | 1070   | 44.0   | 46.7   | 47.1  | 49.5   | 51.2   | 53.0   | 54.7   | 54.7   | 54.6   | 51.9   | 42.6 |    |    |    |  |
| T. FT 39. DEG F    | 1250   | 52.3   | 52.5   | 53.0  | 56.9   | 59.1   | 61.9   | 63.0   | 62.6   | 60.3   | 59.9   | 48.0 |    |    |    |  |
| (277. DEG K)       | 1600   | 50.1   | 50.6   | 52.3  | 56.6   | 57.4   | 60.0   | 61.1   | 60.1   | 58.1   | 55.7   | 44.6 |    |    |    |  |
| MACT 5.12 GM/M3    | 2000   | 45.4   | 46.2   | 49.1  | 54.5   | 57.0   | 59.4   | 59.9   | 59.4   | 56.9   | 54.3   | 44.9 |    |    |    |  |
| (.00512 KG/M3)     | 2500   | 48.2   | 50.8   | 53.3  | 57.1   | 60.4   | 62.9   | 63.9   | 63.2   | 63.6   | 58.8   | 48.6 |    |    |    |  |
| NFA 5409. RPM      | 3150   | 45.8   | 49.2   | 50.8  | 55.1   | 58.4   | 60.7   | 61.8   | 61.3   | 60.2   | 56.0   | 45.4 |    |    |    |  |
| ( 573. RAD/SEC)    | 4000   | 45.2   | 47.7   | 49.3  | 53.6   | 57.2   | 59.9   | 62.1   | 61.3   | 60.3   | 55.0   | 42.5 |    |    |    |  |
| NFK 5555. RPM      | 5000   | 40.9   | 43.1   | 45.5  | 50.4   | 53.4   | 56.9   | 59.3   | 58.6   | 56.9   | 51.0   | 39.8 |    |    |    |  |
| ( 582. RAD/SEC)    | 6300   | 38.1   | 41.1   | 43.5  | 48.1   | 50.8   | 55.4   | 57.8   | 57.1   | 55.0   | 48.5   | 36.6 |    |    |    |  |
| NFD 6823. RPM      | 8000   | 35.1   | 39.1   | 41.4  | 46.2   | 49.4   | 52.7   | 54.9   | 54.3   | 52.8   | 46.0   | 32.8 |    |    |    |  |
| ( 924. RAD/SEC)    | 10000  | 32.9   | 36.4   | 39.3  | 44.5   | 48.5   | 51.3   | 53.3   | 54.3   | 52.1   | 44.3   | 29.8 |    |    |    |  |
| NO. OF BLADES 15   | 12500  | 30.3   | 32.9   | 36.1  | 41.9   | 45.7   | 48.7   | 50.0   | 50.7   | 49.2   | 41.0   | 23.6 |    |    |    |  |
| FAN TIP SPEED      | 16000  | 23.5   | 27.5   | 30.4  | 36.6   | 40.8   | 43.0   | 45.2   | 45.4   | 42.1   | 32.8   | 13.6 |    |    |    |  |
| 477. FT/SEC        | 20000  | 16.7   | 20.8   | 24.1  | 31.7   | 35.7   | 38.0   | 39.5   | 39.4   | 36.2   | 24.2   | 0.4  |    |    |    |  |
|                    | 25000  | 7.1    | 11.7   | 15.4  | 23.1   | 27.0   | 28.5   | 29.9   | 28.6   | 23.5   | 9.6    |      |    |    |    |  |
|                    | 31500  |        | 0.0    | 4.9   | 15.0   | 18.4   | 19.6   | 19.2   | 16.6   | 9.5    |        |      |    |    |    |  |
|                    | 43000  |        |        |       |        | 1.2    | 2.3    | 1.3    |        |        |        |      |    |    |    |  |
|                    | 50000  |        |        |       |        |        |        |        |        |        |        |      |    |    |    |  |
|                    | 63000  |        |        |       |        |        |        |        |        |        |        |      |    |    |    |  |
|                    | 80000  |        |        |       |        |        |        |        |        |        |        |      |    |    |    |  |
| OVERALL CALCULATED | 59.5   | 61.1   | 63.6   | 66.6  | 68.2   | 70.3   | 71.3   | 70.7   | 69.5   | 68.2   | 67.6   |      |    |    |    |  |
| PNDB               | 70.4   | 72.6   | 74.8   | 78.4  | 81.1   | 83.9   | 84.6   | 84.0   | 83.4   | 79.3   | 69.6   |      |    |    |    |  |

0524

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT R.L. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

PHGC DATE - MONTH 3 DAY 25 HR. 13.0

|                           | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0    | 0  | 0  | 0  | 0  | 0  | PML   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|-------|
| FREQ.                     | (0.32) | (1.06) | (1.24) | (1.41) | (1.55) | (1.76) | (1.92) | (2.13) | (2.32) | (2.52) | (2.73) | 0.   | 0. | 0. | 0. | 0. | 0. |       |
| RADIAL 17. FT.            | 63     |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
| VEHICLE 5. MI R=55        | 100    | 73.0   | 75.9   | 73.6   | 70.9   | 70.9   | 70.2   | 71.1   | 71.9   | 72.7   | 74.3   | 79.9 |    |    |    |    |    | 107.0 |
| CONFIC 75-16              | 125    | 69.3   | 70.3   | 72.1   | 70.4   | 71.1   | 70.7   | 71.1   | 74.7   | 74.5   | 76.3   | 79.4 |    |    |    |    |    | 107.4 |
| LDC SCHEMECTARY           | 150    | 69.5   | 70.1   | 69.0   | 74.7   | 70.9   | 76.7   | 72.6   | 73.9   | 75.5   | 77.9   | 79.9 |    |    |    |    |    | 107.8 |
| DATE 1/17/75              | 200    | 58.6   | 64.9   | 69.4   | 70.7   | 71.5   | 73.9   | 74.1   | 76.1   | 77.2   | 79.6   | 81.3 |    |    |    |    |    | 109.3 |
| RUN 54/2                  | 250    | 70.5   | 70.9   | 72.1   | 73.1   | 73.1   | 73.6   | 74.6   | 75.6   | 76.2   | 78.3   | 79.8 |    |    |    |    |    | 109.8 |
| TAPE                      | 315    | 73.0   | 71.6   | 73.9   | 74.4   | 74.6   | 75.2   | 75.6   | 75.4   | 76.7   | 78.1   | 79.1 |    |    |    |    |    | 109.7 |
| BAR 29.7 HG               | 400    | 70.5   | 71.1   | 71.5   | 72.9   | 73.1   | 73.9   | 74.9   | 75.1   | 76.0   | 78.1   | 78.3 |    |    |    |    |    | 108.7 |
| (100401. H/M2)            | 500    | 69.3   | 62.2   | 70.6   | 71.7   | 72.6   | 73.7   | 74.6   | 75.7   | 76.2   | 77.6   | 77.4 |    |    |    |    |    | 108.3 |
| TAMB 43. DEG F            | 630    | 73.1   | 72.0   | 74.4   | 75.7   | 76.4   | 77.4   | 79.4   | 79.4   | 79.0   | 79.3   | 77.6 |    |    |    |    |    | 111.6 |
| (27. DEG F)               | 800    | 73.4   | 73.4   | 73.4   | 75.2   | 75.4   | 76.9   | 76.3   | 79.4   | 80.0   | 80.1   | 77.1 |    |    |    |    |    | 111.4 |
| T-ET 39. DEG F            | 1000   | 71.6   | 72.9   | 72.9   | 74.9   | 76.6   | 76.2   | 80.5   | 81.9   | 82.5   | 82.1   | 77.3 |    |    |    |    |    | 113.1 |
| (277. DEG F)              | 1250   | 74.2   | 73.9   | 75.4   | 77.5   | 79.9   | 81.5   | 83.6   | 84.4   | 84.2   | 84.6   | 78.6 |    |    |    |    |    | 115.6 |
| MACT 5.12 CM/M3           | 1600   | 82.7   | 82.2   | 82.9   | 86.3   | 89.5   | 89.0   | 92.1   | 91.4   | 90.7   | 91.9   | 82.4 |    |    |    |    |    | 123.2 |
| (1.00512 KG/M3)           | 2000   | 77.9   | 76.7   | 78.1   | 81.8   | 83.7   | 85.7   | 86.8   | 87.4   | 87.0   | 85.9   | 80.4 |    |    |    |    |    | 118.7 |
| NFA 6265. RPM             | 2500   | 75.4   | 76.2   | 77.6   | 81.6   | 84.3   | 86.5   | 88.6   | 87.6   | 88.5   | 84.9   | 79.6 |    |    |    |    |    | 119.2 |
| (656. RPM/SEC)            | 3150   | 76.9   | 78.5   | 80.5   | 84.4   | 87.3   | 89.7   | 90.8   | 91.3   | 93.7   | 89.9   | 84.8 |    |    |    |    |    | 123.1 |
| RFK 6364. RPM             | 4000   | 74.1   | 75.4   | 77.0   | 80.9   | 84.3   | 87.2   | 88.0   | 90.0   | 89.9   | 85.3   | 80.2 |    |    |    |    |    | 120.4 |
| (664. RPM/SEC)            | 5000   | 73.3   | 73.6   | 76.7   | 80.3   | 82.7   | 85.7   | 89.9   | 89.7   | 88.6   | 84.8   | 80.2 |    |    |    |    |    | 118.9 |
| NFD 8823. RPM             | 6300   | 69.6   | 71.5   | 73.4   | 77.2   | 80.6   | 84.6   | 87.4   | 87.2   | 87.4   | 89.8   | 78.0 |    |    |    |    |    | 118.0 |
| (924. RPM/SEC)            | 8000   | 69.5   | 78.4   | 72.2   | 77.0   | 79.5   | 83.4   | 85.7   | 86.5   | 86.7   | 82.7   | 77.1 |    |    |    |    |    | 117.1 |
| NO. OF BLADES 15          | 10000  | 68.1   | 69.7   | 72.0   | 77.0   | 80.1   | 83.4   | 86.2   | 87.7   | 88.8   | 83.5   | 77.5 |    |    |    |    |    | 120.3 |
| FAN TIP SPEED 547. FT/SEC | 12500  | 67.6   | 69.2   | 71.1   | 76.3   | 79.8   | 82.8   | 85.3   | 87.3   | 88.8   | 83.3   | 77.3 |    |    |    |    |    | 118.1 |
|                           | 16000  | 66.1   | 66.9   | 69.3   | 74.8   | 78.2   | 80.7   | 83.9   | 86.3   | 87.1   | 81.9   | 76.5 |    |    |    |    |    | 117.8 |
|                           | 20000  | 65.9   | 66.0   | 69.0   | 74.9   | 78.3   | 80.9   | 83.8   | 86.7   | 88.5   | 82.4   | 75.9 |    |    |    |    |    | 116.0 |
|                           | 25000  | 65.2   | 65.6   | 67.2   | 73.2   | 76.1   | 79.2   | 82.0   | 84.5   | 85.8   | 80.5   | 74.0 |    |    |    |    |    | 116.4 |
|                           | 31500  | 64.9   | 64.1   | 67.5   | 74.4   | 77.0   | 79.5   | 81.8   | 83.8   | 84.5   | 79.4   | 71.8 |    |    |    |    |    | 116.7 |
|                           | 40000  | 64.8   | 65.6   | 66.0   | 72.0   | 74.5   | 77.2   | 79.5   | 81.4   | 82.1   | 77.6   | 67.7 |    |    |    |    |    | 118.0 |
|                           | 50000  | 67.0   | 66.4   | 67.6   | 69.4   | 70.5   | 73.1   | 76.0   | 75.9   | 76.8   | 73.8   | 64.9 |    |    |    |    |    | 113.3 |
|                           | 63000  | 65.8   | 66.9   | 68.4   | 68.9   | 68.3   | 70.2   | 70.7   | 70.4   | 70.4   | 69.6   | 65.2 |    |    |    |    |    | 112.3 |
|                           | 80000  | 72.4   | 72.2   | 70.8   | 69.8   | 68.2   | 69.0   | 69.0   | 68.9   | 67.1   | 66.2   | 66.8 |    |    |    |    |    | 116.5 |
| OVERALL MEASURED          |        |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |       |
| OVERALL CALCULATED        | 86.0   | 88.3   | 89.4   | 92.7   | 95.3   | 97.3   | 99.5   | 100.2  | 100.8  | 99.1   | 93.4   |      |    |    |    |    |    | 131.7 |
| PMDS                      | 100.3  | 101.8  | 102.6  | 105.9  | 108.4  | 110.7  | 112.3  | 112.8  | 114.0  | 111.3  | 106.8  |      |    |    |    |    |    |       |

|                           | FREQ. | 53      | 52      | 71      | 41      | 91      | 101     | 111     | 122     | 133     | 145     | 156     | 0. | 0. | 0. | 0. | 0. |
|---------------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|----|----|----|----|
|                           |       | (10.22) | (13.08) | (17.24) | (15.41) | (11.38) | (11.76) | (11.94) | (12.13) | (12.32) | (12.52) | (12.73) | 0. | 0. | 0. | 0. | 0. |
| SIDE LINE 200. FT.        | 50    |         |         |         |         |         |         |         |         |         |         |         |    |    |    |    |    |
| ( 60.96 M)                | 63    |         |         |         |         |         |         |         |         |         |         |         |    |    |    |    |    |
| VEHICLE R=55              | 80    |         |         |         |         |         |         |         |         |         |         |         |    |    |    |    |    |
| CONFIG 75-16              | 100   | 47.4    | 53.2    | 51.6    | 49.2    | 49.3    | 48.4    | 48.0    | 48.8    | 48.3    | 49.8    | 49.8    |    |    |    |    |    |
| LCC SCHEMECTARY           | 125   | 47.5    | 47.1    | 47.0    | 47.6    | 49.5    | 47.8    | 48.4    | 51.5    | 49.9    | 49.7    | 49.1    |    |    |    |    |    |
| DATE 1/17/75              | 160   | 45.7    | 47.2    | 47.7    | 47.1    | 47.1    | 47.5    | 50.2    | 50.7    | 50.4    | 51.0    | 49.4    |    |    |    |    |    |
| RUN 5472                  | 200   | 44.8    | 45.9    | 47.1    | 48.7    | 49.6    | 51.7    | 51.7    | 52.8    | 52.5    | 52.6    | 50.7    |    |    |    |    |    |
| TAPE                      | 250   | 46.5    | 47.8    | 49.7    | 51.1    | 51.2    | 51.6    | 52.1    | 52.2    | 51.3    | 51.2    | 49.0    |    |    |    |    |    |
| RAP 29.7 MG               | 315   | 44.9    | 50.5    | 51.4    | 52.3    | 52.7    | 43.0    | 53.0    | 51.9    | 51.7    | 50.8    | 48.0    |    |    |    |    |    |
| ( 100401. N/M2)           | 400   | 46.3    | 47.9    | 49.1    | 50.7    | 51.1    | 51.7    | 52.1    | 51.5    | 50.9    | 50.7    | 47.0    |    |    |    |    |    |
| TAMB 43. DEG F            | 500   | 44.9    | 46.5    | 48.0    | 49.4    | 50.5    | 51.4    | 51.8    | 51.9    | 51.0    | 50.0    | 45.8    |    |    |    |    |    |
| ( 279. DEG K)             | 630   | 48.6    | 49.4    | 51.6    | 53.7    | 54.2    | 55.0    | 56.4    | 55.5    | 53.6    | 51.6    | 45.9    |    |    |    |    |    |
| T-CT 39. DEG F            | 800   | 48.7    | 49.8    | 50.5    | 52.7    | 53.7    | 54.4    | 55.3    | 55.4    | 54.4    | 52.1    | 45.0    |    |    |    |    |    |
| ( 277. DEG K)             | 1000  | 46.8    | 49.1    | 49.8    | 52.3    | 54.2    | 55.5    | 57.4    | 57.7    | 56.8    | 53.9    | 44.9    |    |    |    |    |    |
| NACT 5.12 CM/M3           | 1250  | 49.2    | 52.0    | 52.2    | 54.9    | 57.3    | 59.7    | 60.3    | 60.1    | 58.3    | 56.2    | 45.8    |    |    |    |    |    |
| ( 00512 KG/M3)            | 1600  | 57.4    | 58.1    | 59.5    | 63.4    | 66.7    | 66.0    | 68.6    | 66.9    | 64.6    | 63.2    | 49.1    |    |    |    |    |    |
| NFA 8265. RPM             | 2000  | 52.5    | 52.4    | 54.6    | 58.7    | 60.4    | 62.5    | 63.1    | 62.7    | 60.6    | 58.8    | 46.6    |    |    |    |    |    |
| ( 656. RAD/SEC)           | 2500  | 49.7    | 51.7    | 53.9    | 58.3    | 61.1    | 63.2    | 64.2    | 62.7    | 61.0    | 58.5    | 45.4    |    |    |    |    |    |
| NFK 6364. RPM             | 3150  | 50.9    | 53.6    | 56.6    | 60.8    | 63.9    | 66.2    | 66.6    | 66.1    | 66.7    | 60.0    | 49.9    |    |    |    |    |    |
| ( 666. RAD/SEC)           | 4000  | 47.4    | 50.1    | 52.9    | 58.9    | 60.2    | 63.2    | 64.3    | 64.3    | 62.3    | 58.8    | 44.3    |    |    |    |    |    |
| NFD 8823. RPM             | 5000  | 45.5    | 48.1    | 52.0    | 56.1    | 58.7    | 61.4    | 65.0    | 63.6    | 60.7    | 53.5    | 43.6    |    |    |    |    |    |
| ( 924. RAD/SEC)           | 6300  | 41.9    | 45.1    | 48.0    | 52.3    | 55.8    | 59.7    | 61.8    | 60.4    | 58.5    | 50.5    | 39.6    |    |    |    |    |    |
| NO. OF BLADES 15          | 8000  | 39.4    | 42.8    | 45.8    | 50.9    | 53.7    | 57.7    | 58.9    | 58.3    | 56.3    | 48.5    | 35.8    |    |    |    |    |    |
| FAN TIP SPEED 547. FT/SEC | 10000 | 37.0    | 40.4    | 43.8    | 49.5    | 52.6    | 55.8    | 57.8    | 57.8    | 56.3    | 46.6    | 32.3    |    |    |    |    |    |
|                           | 12500 | 33.9    | 37.3    | 40.6    | 46.6    | 50.2    | 53.0    | 54.5    | 54.7    | 53.2    | 42.5    | 28.3    |    |    |    |    |    |
|                           | 16000 | 27.6    | 30.9    | 34.9    | 41.3    | 45.1    | 47.2    | 49.2    | 49.4    | 46.4    | 34.6    | 18.1    |    |    |    |    |    |
|                           | 20000 | 21.3    | 24.6    | 29.6    | 36.7    | 40.4    | 42.5    | 44.0    | 44.1    | 41.2    | 26.7    | 3.2     |    |    |    |    |    |
|                           | 25000 | 11.9    | 16.4    | 20.6    | 28.1    | 31.5    | 34.0    | 34.9    | 33.8    | 29.0    | 12.6    |         |    |    |    |    |    |
|                           | 31500 |         | 5.5     | 10.4    | 19.2    | 22.4    | 24.1    | 24.0    | 21.3    | 13.7    |         |         |    |    |    |    |    |
|                           | 40000 |         |         |         | 1.9     | 5.2     | 6.8     | 5.8     | 1.2     |         |         |         |    |    |    |    |    |
|                           | 50000 |         |         |         |         |         |         |         |         |         |         |         |    |    |    |    |    |
|                           | 63000 |         |         |         |         |         |         |         |         |         |         |         |    |    |    |    |    |
|                           | 80000 |         |         |         |         |         |         |         |         |         |         |         |    |    |    |    |    |
| OVERALL CALCULATED        |       | 62.4    | 63.9    | 65.6    | 69.0    | 71.6    | 73.1    | 74.6    | 73.8    | 72.5    | 68.2    | 60.3    |    |    |    |    |    |
| PNCP                      |       | 74.5    | 76.1    | 78.6    | 82.4    | 85.0    | 87.1    | 88.1    | 87.5    | 87.0    | 81.4    | 72.8    |    |    |    |    |    |

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OF POOR QUALITY



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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SQUAW PUMP PRESSURE LOSS (59. DFG. F. 70 PERCENT) L. MUM. BAY  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

PRGC. DATE - MONTH 3 DAY 25 MR. 1966

|                           | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0.    | 0. | 0. | 0. | 0. | 0. | PUL   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|----|----|----|----|----|-------|
| FREQ.                     | (1.92) | (1.38) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.    | 0. | 0. | 0. | 0. | 0. |       |
| RADIAL 17. FT.            | 50     | 53     | 56     | 59     | 62     | 65     | 68     | 71     | 74     | 77     | 80     | 83    | 86 | 89 | 92 | 95 | 98 | 101   |
| VEHICLE (S. H.)           | 100    | 66.0   | 71.2   | 72.6   | 71.7   | 71.7   | 70.9   | 70.9   | 72.2   | 75.5   | 79.8   | 83.9  |    |    |    |    |    | 109.4 |
| CONFIG 75-15              | 125    | 74.3   | 79.1   | 79.1   | 77.4   | 77.9   | 73.2   | 74.1   | 77.2   | 78.2   | 80.4   | 83.9  |    |    |    |    |    | 112.4 |
| LTC SCHEMFACTRY           | 150    | 72.3   | 77.6   | 77.4   | 77.4   | 73.5   | 73.2   | 75.0   | 77.2   | 79.2   | 81.9   | 83.6  |    |    |    |    |    | 111.3 |
| DATE 1/17/75              | 200    | 71.0   | 70.9   | 71.6   | 72.7   | 74.4   | 74.4   | 76.9   | 78.9   | 80.2   | 82.8   | 84.8  |    |    |    |    |    | 112.3 |
| RUN 54/3                  | 250    | 74.5   | 74.6   | 75.4   | 76.1   | 76.6   | 76.9   | 78.6   | 79.4   | 80.7   | 82.1   | 84.1  |    |    |    |    |    | 112.0 |
| TAPE                      | 315    | 76.3   | 76.4   | 76.6   | 77.7   | 77.4   | 78.2   | 78.6   | 79.1   | 80.0   | 82.3   | 83.1  |    |    |    |    |    | 113.1 |
| BAR 20.7 HG               | 400    | 74.1   | 74.4   | 74.6   | 74.7   | 76.1   | 76.7   | 77.6   | 78.6   | 80.0   | 81.6   | 82.3  |    |    |    |    |    | 112.1 |
| (100401. W/M2)            | 500    | 72.6   | 72.6   | 73.4   | 74.7   | 75.4   | 76.4   | 77.9   | 79.2   | 79.5   | 81.1   | 81.4  |    |    |    |    |    | 111.6 |
| TAMD 43. DEG F            | 600    | 75.6   | 75.5   | 75.6   | 78.2   | 79.2   | 79.4   | 81.4   | 82.2   | 82.0   | 82.6   | 81.4  |    |    |    |    |    | 114.2 |
| (1279. DEG K)             | 800    | 75.6   | 75.6   | 76.4   | 77.0   | 77.9   | 79.7   | 81.1   | 81.9   | 82.2   | 83.1   | 80.9  |    |    |    |    |    | 114.1 |
| INLET 38. DEG F           | 1000   | 74.1   | 75.1   | 75.1   | 77.7   | 75.6   | 80.4   | 82.6   | 83.9   | 84.5   | 84.1   | 80.1  |    |    |    |    |    | 110.2 |
| (1276. DEG W)             | 1250   | 75.7   | 75.4   | 77.1   | 79.3   | 80.9   | 83.0   | 85.1   | 85.6   | 86.2   | 86.6   | 80.6  |    |    |    |    |    | 110.9 |
| NACT 4.60 CM/M3           | 1600   | 81.9   | 80.7   | 82.1   | 86.0   | 88.2   | 91.0   | 92.1   | 91.1   | 91.5   | 89.9   | 83.9  |    |    |    |    |    | 123.2 |
| (100460 KG/M3)            | 2000   | 81.7   | 81.5   | 82.9   | 86.7   | 88.7   | 91.0   | 92.3   | 91.9   | 92.0   | 90.1   | 84.9  |    |    |    |    |    | 123.6 |
| NFA 7026. RPM             | 2500   | 77.7   | 79.0   | 80.6   | 84.4   | 87.0   | 89.4   | 90.6   | 90.1   | 90.5   | 85.9   | 81.6  |    |    |    |    |    | 121.7 |
| (736. RA/SEC)             | 3157   | 75.7   | 80.0   | 81.4   | 85.4   | 88.0   | 90.3   | 92.3   | 92.3   | 93.7   | 88.7   | 84.1  |    |    |    |    |    | 123.6 |
| NFK 7137. RPM             | 4000   | 78.4   | 79.7   | 81.1   | 85.4   | 88.0   | 90.7   | 93.7   | 93.5   | 93.7   | 89.1   | 84.5  |    |    |    |    |    | 124.3 |
| (747. RAC/SEC)            | 5000   | 75.6   | 76.2   | 79.5   | 82.9   | 85.2   | 89.4   | 91.9   | 93.2   | 91.1   | 86.8   | 82.9  |    |    |    |    |    | 122.7 |
| NPD 8823. RPM             | 6300   | 72.9   | 74.5   | 77.0   | 81.0   | 84.1   | 88.4   | 90.7   | 91.3   | 90.1   | 84.5   | 80.3  |    |    |    |    |    | 121.4 |
| (824. RAC/SEC)            | 8000   | 71.8   | 74.2   | 75.8   | 81.3   | 83.3   | 87.6   | 89.7   | 90.5   | 90.0   | 84.7   | 80.2  |    |    |    |    |    | 120.8 |
| NO. OF BLADES 15          | 10000  | 71.6   | 73.3   | 76.1   | 81.8   | 84.2   | 87.5   | 89.8   | 91.3   | 91.4   | 85.8   | 80.8  |    |    |    |    |    | 121.6 |
| FAN TIP SPEED 613. FT/SEC | 12500  | 70.9   | 72.5   | 75.5   | 80.7   | 83.6   | 86.4   | 89.1   | 91.9   | 91.6   | 85.9   | 80.3  |    |    |    |    |    | 121.7 |
|                           | 16000  | 69.0   | 70.0   | 73.4   | 78.6   | 82.1   | 84.8   | 88.0   | 90.4   | 89.9   | 84.2   | 79.6  |    |    |    |    |    | 120.6 |
|                           | 20000  | 69.0   | 69.7   | 72.9   | 78.6   | 81.7   | 85.0   | 88.7   | 91.0   | 91.3   | 85.5   | 79.8  |    |    |    |    |    | 121.0 |
|                           | 25000  | 68.0   | 69.2   | 71.5   | 77.0   | 80.4   | 83.3   | 86.7   | 89.5   | 89.0   | 83.7   | 78.0  |    |    |    |    |    | 120.6 |
|                           | 31500  | 65.9   | 68.8   | 71.5   | 76.4   | 80.8   | 84.0   | 86.3   | 88.6   | 88.7   | 82.1   | 76.1  |    |    |    |    |    | 121.0 |
|                           | 40000  | 64.2   | 66.6   | 69.5   | 75.7   | 78.0   | 81.1   | 83.7   | 84.5   | 85.5   | 80.2   | 70.9  |    |    |    |    |    | 119.3 |
|                           | 50000  | 64.5   | 65.9   | 68.1   | 71.2   | 73.2   | 76.3   | 79.8   | 79.9   | 80.6   | 76.9   | 67.0  |    |    |    |    |    | 116.7 |
|                           | 63000  | 64.3   | 65.7   | 68.0   | 68.5   | 69.4   | 71.4   | 72.8   | 72.8   | 73.0   | 70.5   | 64.8  |    |    |    |    |    | 113.4 |
|                           | 80000  | 71.8   | 68.3   | 70.1   | 68.1   | 67.9   | 68.7   | 68.7   | 68.3   | 67.3   | 67.5   | 65.5  |    |    |    |    |    | 118.8 |
| OVERALL MEASURED          |        |        |        |        |        |        |        |        |        |        |        |       |    |    |    |    |    |       |
| OVERALL CALCULATED        |        | 89.9   | 90.4   | 91.8   | 95.3   | 97.6   | 100.4  | 102.5  | 103.2  | 103.3  | 99.6   | 96.5  |    |    |    |    |    | 124.5 |
| PNSB                      |        | 102.2  | 103.2  | 104.6  | 106.1  | 110.3  | 112.9  | 115.2  | 115.4  | 115.5  | 112.1  | 106.5 |    |    |    |    |    |       |

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00

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

HOTEL SUCO PRESSURE LEVELS (5% DFC, P, 7% PERCENT @ L. NUM, EAV)

PRCC. DATE - MONTH 3 DAY 25 HR. 13.0

ANGLES FROM INLET IN DEGREES AND RADIANS

|                        | 53     | 62      | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 143    | 156    | 0    | 0 | 0 | 0 |
|------------------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|---|---|---|
|                        | (.882) | (1.018) | (1.24) | (1.41) | (1.59) | (1.74) | (1.92) | (2.13) | (2.32) | (2.52) | (2.73) | 0    | 0 | 0 | 0 |
|                        | 53     | 62      | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 143    | 156    | 0    | 0 | 0 | 0 |
| SIDE LINE 200. FT.     | 170    | 43.1    | 49.2   | 50.6   | 51.0   | 50.1   | 49.2   | 48.7   | 49.1   | 51.0   | 51.3   | 53.0 |   |   |   |
| VEHICLE (60.04 M) R=55 | 125    | 50.5    | 50.3   | 57.0   | 57.6   | 56.2   | 52.1   | 51.8   | 54.0   | 53.7   | 54.2   | 53.6 |   |   |   |
| CONFIG 75-16           | 160    | 48.4    | 47.7   | 50.2   | 51.5   | 51.7   | 52.7   | 53.5   | 53.9   | 54.6   | 55.0   | 53.1 |   |   |   |
| LDC SCHEMECTARY        | 200    | 47.1    | 47.9   | 49.3   | 51.0   | 52.6   | 54.4   | 54.4   | 55.6   | 55.5   | 55.9   | 54.2 |   |   |   |
| DATE 1/17/75           | 250    | 50.5    | 51.5   | 53.7   | 54.1   | 54.7   | 54.8   | 56.1   | 56.0   | 55.8   | 55.0   | 53.2 |   |   |   |
| RUN 54/3               | 315    | 51.9    | 53.2   | 54.1   | 54.6   | 55.4   | 54.0   | 56.0   | 55.6   | 55.0   | 55.1   | 52.0 |   |   |   |
| TAPE                   | 450    | 49.8    | 51.1   | 52.1   | 54.0   | 54.1   | 54.4   | 54.9   | 54.0   | 54.9   | 54.2   | 51.0 |   |   |   |
| BAR 20.7 HC            | 500    | 48.2    | 49.3   | 50.7   | 52.4   | 53.2   | 54.1   | 55.0   | 55.4   | 54.2   | 53.5   | 49.8 |   |   |   |
| 100401. N/N2F          | 630    | 51.1    | 52.2   | 53.9   | 55.3   | 56.9   | 57.0   | 58.7   | 58.3   | 56.6   | 54.8   | 49.5 |   |   |   |
| TAMB 43. JEG F         | 800    | 50.9    | 52.0   | 53.5   | 55.5   | 55.5   | 57.2   | 58.0   | 57.9   | 56.7   | 55.1   | 48.7 |   |   |   |
| (278. JEG M)           | 1000   | 49.3    | 51.4   | 52.1   | 55.1   | 56.2   | 57.5   | 59.4   | 59.8   | 58.8   | 55.9   | 47.6 |   |   |   |
| TACT 38. JEG F         | 1250   | 50.7    | 51.5   | 54.0   | 54.5   | 58.3   | 58.2   | 61.8   | 61.3   | 60.3   | 56.2   | 47.8 |   |   |   |
| (276. JEG M)           | 1600   | 55.7    | 56.6   | 58.8   | 62.1   | 65.4   | 65.0   | 68.6   | 68.6   | 65.4   | 61.2   | 50.6 |   |   |   |
| HACT 4.60 CM/M3        | 2000   | 56.2    | 57.1   | 59.3   | 63.2   | 65.4   | 67.9   | 68.4   | 67.2   | 65.8   | 61.1   | 51.1 |   |   |   |
| 1.00460 KC/M3          | 2500   | 52.3    | 54.3   | 56.9   | 61.1   | 63.7   | 66.5   | 66.7   | 65.2   | 63.6   | 58.5   | 47.7 |   |   |   |
| NFA 7026. RPM          | 3150   | 52.7    | 55.2   | 57.3   | 61.9   | 64.5   | 66.7   | 68.1   | 67.1   | 66.7   | 58.9   | 49.2 |   |   |   |
| (738. 4A/SEC)          | 4000   | 51.5    | 54.4   | 56.6   | 61.4   | 64.2   | 66.7   | 69.1   | 67.8   | 65.1   | 54.5   | 48.5 |   |   |   |
| NPK 7137. RPM          | 5000   | 49.7    | 50.6   | 54.8   | 58.7   | 61.2   | 65.2   | 67.0   | 67.2   | 63.2   | 56.8   | 45.8 |   |   |   |
| (747. RAD/SEC)         | 6300   | 45.2    | 48.1   | 51.5   | 56.1   | 59.4   | 63.5   | 65.0   | 64.4   | 61.2   | 52.3   | 41.9 |   |   |   |
| NPD 8823. RPM          | 8000   | 42.7    | 44.5   | 49.2   | 55.2   | 57.5   | 61.5   | 62.0   | 62.4   | 59.6   | 50.5   | 38.9 |   |   |   |
| (924. RAD/SEC)         | 10000  | 40.6    | 44.0   | 47.9   | 54.3   | 56.5   | 59.0   | 61.3   | 61.3   | 58.0   | 48.9   | 35.8 |   |   |   |
| NO. OF BLADES 15       | 12500  | 37.0    | 40.7   | 44.9   | 50.9   | 54.0   | 58.5   | 58.3   | 59.3   | 56.0   | 46.1   | 29.4 |   |   |   |
| FAN TIP SPEED          | 16000  | 30.4    | 34.0   | 39.0   | 44.2   | 48.3   | 51.3   | 53.3   | 53.5   | 49.2   | 37.0   | 19.4 |   |   |   |
| 613. FT/SEC            | 20000  | 24.4    | 28.2   | 33.5   | 40.3   | 43.8   | 48.6   | 48.9   | 48.5   | 44.0   | 29.8   | 7.0  |   |   |   |
|                        | 25000  | 18.7    | 20.0   | 24.9   | 31.9   | 35.8   | 38.0   | 39.4   | 38.9   | 33.0   | 15.9   |      |   |   |   |
|                        | 31500  | 8.8     | 8.2    | 14.4   | 23.2   | 26.2   | 28.8   | 28.4   | 26.0   | 18.0   |        |      |   |   |   |
|                        | 40000  |         |        |        | 5.6    | 6.6    | 10.7   | 10.8   | 4.4    |        |        |      |   |   |   |
|                        | 50000  |         |        |        |        |        |        |        |        |        |        |      |   |   |   |
|                        | 63000  |         |        |        |        |        |        |        |        |        |        |      |   |   |   |
|                        | 80000  |         |        |        |        |        |        |        |        |        |        |      |   |   |   |
| OVERALL CALCULATED     | 64.3   | 66.0    | 67.9   | 71.3   | 73.8   | 76.0   | 77.2   | 76.3   | 74.6   | 69.6   | 63.7   |      |   |   |   |
| PADR                   | 76.4   | 78.3    | 80.6   | 84.5   | 86.9   | 89.1   | 90.8   | 89.8   | 88.4   | 82.2   | 73.7   |      |   |   |   |

527

528

MODEL SERIAL NO. PRESSURE LEVELS 159. DEG. F. 70 PERCENT B L. NUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| PARAMETER          | FREQUENCY | ANGLE |       |       |       |       |       |       |       |       |       |       |   |   |   |   |   | PWL   |
|--------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|---|---|---|---|-------|
|                    |           | 51    | 62    | 71    | 81    | 91    | 101   | 111   | 122   | 133   | 145   | 156   | 0 | 0 | 0 | 0 | 0 |       |
| RADIAL 17. FT.     | 50        |       |       |       |       |       |       |       |       |       |       |       |   |   |   |   |   |       |
| VEHICLE            | 125       | 64.1  | 71.4  | 72.4  | 72.7  | 73.1  | 73.2  | 74.4  | 74.7  | 76.7  | 83.3  | 87.4  |   |   |   |   |   | 112.3 |
| CONFIG             | 160       | 74.5  | 75.4  | 75.4  | 76.4  | 76.1  | 76.2  | 78.9  | 79.9  | 82.2  | 85.1  | 87.6  |   |   |   |   |   | 114.0 |
| LOC SCENECTADY     | 200       | 73.5  | 73.1  | 74.4  | 75.2  | 76.2  | 76.9  | 79.9  | 81.9  | 83.2  | 84.3  | 88.3  |   |   |   |   |   | 115.4 |
| DATE 1/17/75       | 250       | 77.9  | 77.6  | 78.9  | 79.2  | 81.5  | 81.1  | 82.4  | 84.6  | 85.5  | 87.1  | 88.1  |   |   |   |   |   | 117.2 |
| NUM 54/4           | 315       | 73.8  | 70.4  | 72.4  | 70.4  | 82.4  | 82.7  | 81.6  | 82.1  | 83.5  | 85.3  | 86.3  |   |   |   |   |   | 116.1 |
| TAPE               | 400       | 77.1  | 77.4  | 77.4  | 78.7  | 78.9  | 79.4  | 80.6  | 81.9  | 82.7  | 84.3  | 86.1  |   |   |   |   |   | 115.1 |
| GAP 29.7 MG        | 500       | 75.1  | 75.6  | 76.1  | 77.9  | 77.7  | 78.2  | 81.1  | 82.4  | 82.7  | 84.1  | 84.9  |   |   |   |   |   | 116.7 |
| (1004) 1. N/M2     | 630       | 77.3  | 77.4  | 78.9  | 80.2  | 80.2  | 81.9  | 83.9  | 84.2  | 84.2  | 84.8  | 84.4  |   |   |   |   |   | 116.4 |
| TANG 43. DEG F     | 800       | 78.4  | 78.1  | 78.6  | 80.7  | 81.1  | 82.2  | 83.6  | 84.9  | 85.0  | 85.1  | 84.4  |   |   |   |   |   | 116.7 |
| (279. DEG N)       | 1000      | 77.1  | 77.6  | 77.9  | 80.4  | 81.6  | 82.9  | 85.1  | 85.9  | 86.7  | 85.6  | 83.6  |   |   |   |   |   | 117.5 |
| T. ET 38. DEG F    | 1250      | 78.2  | 77.7  | 79.4  | 82.3  | 83.4  | 85.9  | 86.8  | 87.6  | 87.5  | 85.9  | 83.4  |   |   |   |   |   | 118.8 |
| (276. DEG N)       | 1500      | 83.2  | 80.4  | 82.1  | 85.0  | 85.5  | 86.5  | 86.5  | 90.1  | 89.4  | 86.6  | 82.9  |   |   |   |   |   | 121.5 |
| MACT 4.63 GN/M3    | 2000      | 77.2  | 88.0  | 85.5  | 92.1  | 93.2  | 95.3  | 96.1  | 92.9  | 94.2  | 93.4  | 89.6  |   |   |   |   |   | 129.2 |
| (80400 KG/M3)      | 2500      | 71.9  | 83.0  | 84.9  | 89.1  | 91.3  | 93.0  | 93.3  | 92.9  | 93.0  | 88.2  | 84.3  |   |   |   |   |   | 124.9 |
| NPA 7811. RPM      | 3150      | 73.9  | 82.0  | 84.1  | 87.7  | 87.5  | 92.3  | 93.8  | 93.6  | 94.0  | 88.4  | 84.3  |   |   |   |   |   | 124.9 |
| ( 818. RAD/SEC)    | 4000      | 71.9  | 82.7  | 85.3  | 88.4  | 91.5  | 94.5  | 96.7  | 97.3  | 96.9  | 91.4  | 88.3  |   |   |   |   |   | 127.7 |
| NPK 7934. RPM      | 5000      | 78.3  | 78.9  | 81.5  | 86.1  | 88.7  | 91.2  | 94.2  | 93.7  | 92.6  | 89.1  | 84.0  |   |   |   |   |   | 124.6 |
| ( 831. RAD/SEC)    | 6300      | 77.2  | 79.8  | 81.7  | 86.5  | 89.9  | 92.2  | 93.7  | 94.8  | 92.9  | 87.3  | 83.1  |   |   |   |   |   | 124.9 |
| NPE 8823. RPM      | 8000      | 75.6  | 77.2  | 80.5  | 84.5  | 86.5  | 90.2  | 92.7  | 93.3  | 93.8  | 87.0  | 83.2  |   |   |   |   |   | 124.8 |
| ( 924. RAD/SEC)    | 10000     | 75.1  | 76.5  | 78.8  | 85.3  | 87.7  | 91.2  | 93.3  | 94.8  | 94.6  | 88.3  | 83.3  |   |   |   |   |   | 125.0 |
| NO. OF BLADES 15   | 12500     | 74.9  | 75.8  | 79.2  | 84.9  | 87.8  | 91.4  | 92.6  | 95.4  | 95.1  | 88.9  | 83.3  |   |   |   |   |   | 125.4 |
| FAIR TIP SPEED     | 18000     | 73.0  | 74.8  | 77.4  | 83.1  | 85.9  | 88.6  | 91.7  | 93.9  | 93.2  | 87.2  | 82.8  |   |   |   |   |   | 124.1 |
| 682. FT/SEC        | 20000     | 72.3  | 74.4  | 77.6  | 83.3  | 86.4  | 89.0  | 92.4  | 94.8  | 94.6  | 88.8  | 82.8  |   |   |   |   |   | 125.4 |
|                    | 25000     | 71.5  | 73.2  | 76.5  | 82.5  | 84.9  | 87.8  | 91.7  | 94.0  | 94.1  | 87.7  | 82.2  |   |   |   |   |   | 125.3 |
|                    | 31500     | 72.6  | 73.1  | 76.3  | 82.6  | 84.5  | 88.0  | 90.8  | 92.6  | 92.2  | 86.6  | 79.6  |   |   |   |   |   | 124.9 |
|                    | 40000     | 66.7  | 70.3  | 74.0  | 79.7  | 82.0  | 85.1  | 88.5  | 89.3  | 89.5  | 84.2  | 74.7  |   |   |   |   |   | 123.6 |
|                    | 50000     | 67.5  | 67.1  | 70.9  | 74.7  | 77.2  | 80.3  | 84.3  | 83.9  | 84.1  | 80.4  | 69.8  |   |   |   |   |   | 120.8 |
|                    | 63000     | 67.8  | 66.7  | 68.3  | 69.5  | 71.4  | 74.4  | 76.6  | 76.3  | 76.5  | 73.9  | 68.8  |   |   |   |   |   | 118.4 |
|                    | 80000     | 71.8  | 69.6  | 70.1  | 68.4  | 68.1  | 69.5  | 70.5  | 69.6  | 69.3  | 68.5  | 65.8  |   |   |   |   |   | 118.4 |
| OVERALL MEASURED   |           | 92.2  | 93.6  | 95.2  | 99.0  | 101.0 | 103.5 | 105.6 | 106.6 | 106.3 | 101.9 | 98.6  |   |   |   |   |   | 137.7 |
| OVERALL CALCULATED |           | 106.1 | 106.9 | 108.2 | 111.6 | 113.7 | 116.1 | 118.0 | 118.5 | 118.4 | 114.2 | 111.7 |   |   |   |   |   |       |

|                              | 53.2   | 62.1    | 71.4   | 81.1  | 91.1   | 101.1  | 111.1  | 122.1  | 133.1  | 145.1  | 159.1  | 0.   | 0.  | 0.   | 0.   | 0.    |
|------------------------------|--------|---------|--------|-------|--------|--------|--------|--------|--------|--------|--------|------|-----|------|------|-------|
| FRF 2.0                      | (1.08) | (1.108) | (1.24) | (1.4) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | (0. | (10. | (10. | (10.) |
| SIDE LINE 200. FT. (60.96 M) | 100    | 44.4    | 46.7   | 50.3  | 51.0   | 51.5   | 52.2   | 52.2   | 51.6   | 54.3   | 56.8   | 57.3 |     |      |      |       |
| VEHICLE R-55                 | 125    | 51.5    | 54.1   | 54.0  | 54.4   | 55.0   | 55.1   | 55.6   | 57.0   | 56.4   | 58.9   | 56.9 |     |      |      |       |
| CO.FIG 75-16                 | 160    | 52.7    | 52.5   | 53.2  | 54.6   | 54.4   | 54.3   | 56.4   | 56.7   | 57.6   | 58.3   | 57.1 |     |      |      |       |
| LCC SCHECTADY                | 200    | 49.6    | 50.1   | 52.1  | 52.2   | 55.1   | 56.9   | 57.4   | 58.6   | 58.5   | 59.4   | 57.7 |     |      |      |       |
| DATE 1/17/75                 | 250    | 53.7    | 54.5   | 56.5  | 57.9   | 58.7   | 59.1   | 60.1   | 61.2   | 60.6   | 60.0   | 57.2 |     |      |      |       |
| RHM 54/4                     | 315    | 54.6    | 55.2   | 56.9  | 59.3   | 58.4   | 58.5   | 59.0   | 58.6   | 58.5   | 58.1   | 55.3 |     |      |      |       |
| TAPE                         | 400    | 52.8    | 54.1   | 54.8  | 56.5   | 56.0   | 57.2   | 57.9   | 58.3   | 57.6   | 56.9   | 54.8 |     |      |      |       |
| EAR 29.7 HG                  | 500    | 52.7    | 52.3   | 53.5  | 54.7   | 55.7   | 56.0   | 58.3   | 58.7   | 57.5   | 56.5   | 53.3 |     |      |      |       |
| (0040) N/M2)                 | 630    | 53.3    | 51.9   | 56.1  | 57.4   | 58.7   | 59.5   | 60.9   | 60.3   | 58.9   | 57.1   | 52.5 |     |      |      |       |
| TMR 43 DEG F                 | 800    | 51.7    | 54.8   | 55.7  | 57.7   | 58.4   | 59.7   | 60.5   | 60.9   | 59.4   | 57.1   | 52.2 |     |      |      |       |
| (27. DEG K)                  | 1000   | 52.3    | 53.9   | 54.8  | 57.4   | 59.2   | 60.3   | 61.9   | 61.9   | 61.0   | 57.4   | 51.1 |     |      |      |       |
| T-ET 39. DEG F               | 1250   | 53.2    | 53.7   | 56.2  | 57.5   | 60.5   | 62.2   | 63.5   | 63.3   | 61.6   | 57.4   | 50.5 |     |      |      |       |
| (27. DEG K)                  | 1500   | 55.7    | 56.3   | 58.0  | 61.1   | 63.7   | 65.5   | 66.6   | 65.9   | 63.6   | 57.9   | 49.6 |     |      |      |       |
| HACT 4.60 CM/M3              | 2700   | 61.7    | 63.6   | 65.1  | 69.3   | 73.3   | 72.1   | 74.4   | 74.2   | 71.9   | 64.3   | 55.9 |     |      |      |       |
| (0040) KG/M3)                | 2500   | 55.3    | 54.5   | 61.2  | 65.9   | 68.1   | 69.7   | 69.4   | 67.9   | 66.4   | 58.8   | 50.2 |     |      |      |       |
| NFA 7611. RPM                | 3150   | 53.9    | 57.2   | 60.1  | 64.1   | 67.1   | 68.7   | 69.6   | 68.3   | 67.0   | 58.6   | 49.4 |     |      |      |       |
| ( 810. RA/SEC)               | 4000   | 55.3    | 57.4   | 60.9  | 65.4   | 67.9   | 70.5   | 72.1   | 71.5   | 69.3   | 60.5   | 52.3 |     |      |      |       |
| NFK 7934. RPM                | 5000   | 51.5    | 53.4   | 57.1  | 61.9   | 64.7   | 67.7   | 69.3   | 67.7   | 65.0   | 59.1   | 47.3 |     |      |      |       |
| ( 631. RA/SEC)               | 6300   | 50.2    | 53.4   | 56.3  | 61.6   | 65.1   | 67.2   | 68.0   | 67.9   | 64.0   | 55.0   | 44.6 |     |      |      |       |
| NFD 8823. RPM                | 8000   | 46.4    | 49.6   | 53.9  | 58.5   | 61.0   | 64.8   | 65.9   | 65.1   | 63.4   | 52.8   | 41.9 |     |      |      |       |
| ( 924. RA/SEC)               | 10000  | 44.1    | 47.2   | 51.8  | 57.6   | 61.3   | 63.6   | 64.8   | 64.8   | 62.1   | 51.6   | 38.1 |     |      |      |       |
| NO. OF BLADES 15             | 12500  | 41.0    | 43.9   | 48.7  | 55.1   | 59.3   | 61.5   | 61.8   | 62.8   | 59.5   | 48.1   | 32.4 |     |      |      |       |
| FAN TIP SPEED                | 10000  | 34.4    | 38.8   | 43.0  | 49.7   | 52.4   | 55.1   | 57.0   | 57.0   | 52.5   | 39.7   | 22.2 |     |      |      |       |
| 682. FT/SEC                  | 20000  | 27.6    | 33.0   | 38.2  | 45.1   | 48.5   | 50.8   | 52.6   | 52.2   | 47.3   | 33.8   | 18.0 |     |      |      |       |
|                              | 25000  | 18.2    | 24.3   | 29.9  | 37.4   | 40.3   | 42.5   | 44.6   | 43.4   | 37.3   | 19.9   |      |     |      |      |       |
|                              | 31500  | 4.6     | 12.5   | 19.1  | 27.5   | 30.2   | 32.6   | 32.2   | 30.0   | 21.5   | 1.0    |      |     |      |      |       |
|                              | 40000  |         |        | 1.2   | 9.6    | 12.6   | 14.7   | 14.7   | 9.1    |        |        |      |     |      |      |       |
|                              | 50000  |         |        |       |        |        |        |        |        |        |        |      |     |      |      |       |
|                              | 63000  |         |        |       |        |        |        |        |        |        |        |      |     |      |      |       |
|                              | 80000  |         |        |       |        |        |        |        |        |        |        |      |     |      |      |       |
| OVERALL CALCULATED           | 67.2   | 69.0    | 71.0   | 74.4  | 76.7   | 78.7   | 80.0   | 79.5   | 77.4   | 71.8   | 67.0   |      |     |      |      |       |
| PND9                         | 69.4   | 82.3    | 84.3   | 88.1  | 90.1   | 92.2   | 93.6   | 93.0   | 91.0   | 84.3   | 78.9   |      |     |      |      |       |

ORIGINAL PAGE IS OF POOR QUALITY

|                     | 5%    | 6%    | 7%    | 8%    | 9%    | 10%   | 11%   | 12%   | 13%   | 14%   | 15%   | 0.   | 0. | 0.   | 0.   | 0.   | 0.   | 0.    |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----|------|------|------|------|-------|
|                     | 10.22 | 11.04 | 11.24 | 11.41 | 11.54 | 11.76 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 0.   | 0. | 110. | 110. | 110. | 110. |       |
|                     | 50    | 60    | 70    | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 0.   | 0. | 110. | 110. | 110. | 110. |       |
| RADIAL 17. FT.      | 80    | 80    | 80    | 80    | 80    | 80    | 80    | 80    | 80    | 80    | 80    | 80   | 80 | 80   | 80   | 80   | 80   | 80    |
| VEHICLE (S. H.)     | 100   | 68.5  | 71.1  | 72.4  | 72.7  | 73.4  | 74.2  | 74.1  | 74.7  | 76.7  | 83.3  | 87.4 |    |      |      |      |      | 112.3 |
| VEHICLE R=55        | 125   | 75.5  | 77.4  | 75.1  | 76.4  | 74.9  | 77.4  | 79.1  | 80.7  | 81.7  | 84.1  | 87.0 |    |      |      |      |      | 114.5 |
| COLFIG 75-16        | 160   | 74.5  | 75.4  | 75.1  | 74.4  | 74.4  | 77.2  | 78.4  | 80.4  | 82.0  | 84.3  | 87.1 |    |      |      |      |      | 114.1 |
| LCC SCHEMECTARY     | 200   | 73.8  | 73.4  | 74.1  | 74.7  | 77.6  | 79.6  | 80.4  | 81.9  | 83.0  | 86.1  | 88.3 |    |      |      |      |      | 115.4 |
| DATE 1/17/75        | 250   | 77.8  | 78.1  | 78.0  | 80.4  | 80.6  | 81.1  | 83.1  | 84.4  | 85.5  | 84.8  | 86.1 |    |      |      |      |      | 117.2 |
| R/N 54/5            | 315   | 77.0  | 78.1  | 79.4  | 81.2  | 80.6  | 80.7  | 81.3  | 82.1  | 83.2  | 85.3  | 86.6 |    |      |      |      |      | 116.0 |
| T-PE                | 400   | 77.3  | 77.4  | 77.4  | 78.9  | 79.1  | 79.7  | 80.9  | 81.6  | 82.7  | 84.4  | 85.8 |    |      |      |      |      | 115.2 |
| EAR 29.7 MG         | 530   | 75.6  | 75.4  | 76.1  | 77.4  | 78.1  | 79.2  | 80.6  | 81.9  | 82.7  | 84.6  | 84.6 |    |      |      |      |      | 114.6 |
| (100401. 47/47)     | 530   | 77.4  | 77.4  | 78.0  | 80.7  | 81.2  | 81.9  | 83.0  | 84.4  | 84.0  | 84.4  | 84.6 |    |      |      |      |      | 116.5 |
| TAMB 42. DEG F      | 800   | 78.5  | 78.6  | 78.9  | 80.4  | 81.1  | 82.4  | 83.6  | 84.4  | 85.0  | 85.1  | 84.1 |    |      |      |      |      | 116.7 |
| (270. DEG K)        | 1000  | 77.6  | 77.6  | 78.1  | 80.4  | 81.4  | 82.7  | 84.6  | 85.6  | 86.2  | 84.8  | 82.8 |    |      |      |      |      | 117.1 |
| T-ET 38. DEG F      | 1250  | 78.4  | 77.9  | 79.4  | 81.2  | 81.9  | 85.0  | 87.1  | 87.4  | 87.5  | 86.1  | 83.4 |    |      |      |      |      | 118.0 |
| (270. DEG K)        | 1400  | 81.2  | 81.7  | 82.1  | 85.3  | 86.5  | 88.5  | 90.3  | 90.1  | 89.5  | 84.4  | 82.4 |    |      |      |      |      | 121.4 |
| HACT 4.89 CM/PS     | 2000  | 87.7  | 84.3  | 85.9  | 92.6  | 93.2  | 95.7  | 97.5  | 99.1  | 97.7  | 93.6  | 89.4 |    |      |      |      |      | 129.2 |
| (100489 CM/PS)      | 2500  | 81.9  | 83.8  | 84.6  | 89.4  | 91.5  | 93.0  | 93.6  | 93.1  | 93.2  | 87.9  | 84.3 |    |      |      |      |      | 125.0 |
| NFA 780. RPM        | 3150  | 79.7  | 82.3  | 83.3  | 87.6  | 88.3  | 92.1  | 94.3  | 93.8  | 93.7  | 88.4  | 84.3 |    |      |      |      |      | 125.0 |
| ( 817. RPM/SEC)     | 4000  | 81.4  | 83.2  | 85.3  | 89.1  | 92.5  | 94.7  | 96.7  | 97.5  | 96.9  | 91.9  | 88.3 |    |      |      |      |      | 127.9 |
| NFX 7937. RPM       | 5000  | 78.1  | 78.9  | 81.2  | 85.4  | 88.0  | 92.2  | 93.6  | 93.9  | 92.0  | 88.1  | 83.7 |    |      |      |      |      | 124.5 |
| ( 831. RPM/SEC)     | 6300  | 78.2  | 79.7  | 81.5  | 84.5  | 89.1  | 92.2  | 93.9  | 94.4  | 92.0  | 87.5  | 83.0 |    |      |      |      |      | 124.9 |
| NFD 8423. RPM       | 8000  | 75.3  | 76.0  | 79.5  | 84.5  | 87.3  | 90.8  | 92.7  | 93.5  | 92.7  | 87.2  | 82.4 |    |      |      |      |      | 123.8 |
| ( 924. RPM/SEC)     | 11000 | 74.7  | 76.8  | 80.0  | 85.4  | 87.9  | 91.2  | 93.5  | 95.0  | 94.4  | 88.2  | 83.1 |    |      |      |      |      | 125.1 |
| NO. OF BLADES 15    | 12500 | 74.8  | 75.7  | 79.2  | 84.8  | 87.3  | 91.6  | 93.1  | 95.6  | 94.6  | 88.6  | 83.0 |    |      |      |      |      | 125.4 |
| FAN TIP SPEED 16000 | 16000 | 72.4  | 74.4  | 76.8  | 82.5  | 85.7  | 88.5  | 91.9  | 93.9  | 93.1  | 87.2  | 82.2 |    |      |      |      |      | 124.8 |
| 681. FT/SEC         | 20000 | 77.4  | 73.8  | 77.3  | 83.2  | 86.1  | 88.9  | 92.6  | 94.7  | 93.8  | 88.2  | 82.7 |    |      |      |      |      | 125.2 |
|                     | 25000 | 71.5  | 72.9  | 76.5  | 82.5  | 85.4  | 88.0  | 91.0  | 94.0  | 93.9  | 88.0  | 81.7 |    |      |      |      |      | 125.2 |
|                     | 31500 | 72.8  | 73.1  | 76.2  | 82.6  | 85.0  | 88.2  | 90.0  | 92.3  | 92.0  | 84.3  | 79.6 |    |      |      |      |      | 124.8 |
|                     | 40000 | 68.7  | 70.1  | 74.8  | 79.5  | 82.5  | 85.1  | 88.6  | 88.6  | 86.8  | 84.0  | 74.7 |    |      |      |      |      | 123.4 |
|                     | 50000 | 67.6  | 67.0  | 70.5  | 75.0  | 77.3  | 80.4  | 84.1  | 83.8  | 84.2  | 79.9  | 69.8 |    |      |      |      |      | 120.5 |
|                     | 63000 | 58.8  | 66.2  | 68.7  | 69.9  | 71.1  | 74.3  | 77.2  | 76.5  | 76.7  | 73.4  | 65.5 |    |      |      |      |      | 116.6 |
|                     | 80000 | 72.1  | 70.1  | 78.4  | 84.9  | 85.4  | 89.5  | 78.2  | 78.1  | 69.5  | 68.7  | 65.8 |    |      |      |      |      | 116.7 |
| OVERALL MEASURED    |       |       |       |       |       |       |       |       |       |       |       |      |    |      |      |      |      |       |
| OVERALL CALCULATED  | 93.0  | 93.7  | 95.1  | 99.0  | 101.2 | 103.6 | 105.6 | 106.7 | 106.8 | 101.8 | 99.5  |      |    |      |      |      |      | 127.7 |
| PRGR                | 106.4 | 107.0 | 108.2 | 111.7 | 114.1 | 116.2 | 118.0 | 118.7 | 118.2 | 114.4 | 111.6 |      |    |      |      |      |      |       |

ANGLES FROM INLET 14 DEGREES (AND RADIANS

|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0.  | 0.   | 0.   | 0.   | 0.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|------|------|------|------|
| FREQ.              | (5.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 10. | 110. | 110. | 110. | 110. |
| 50                 |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
| 61                 |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
| 80                 |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
| 100                | 44.9   | 45.4   | 50.3   | 51.0   | 51.4   | 52.4   | 51.9   | 51.6   | 54.3   | 56.8   | 57.3   |     |      |      |      |      |
| 125                | 51.8   | 54.6   | 54.0   | 54.4   | 55.2   | 55.6   | 54.8   | 57.5   | 57.2   | 57.4   | 57.4   |     |      |      |      |      |
| 160                | 59.7   | 52.5   | 52.9   | 54.6   | 54.6   | 54.3   | 56.0   | 57.2   | 57.3   | 57.5   | 56.8   |     |      |      |      |      |
| 200                | 49.8   | 50.4   | 51.8   | 53.7   | 55.8   | 57.7   | 57.9   | 58.6   | 58.2   | 59.1   | 57.7   |     |      |      |      |      |
| 250                | 53.7   | 55.3   | 56.5   | 58.4   | 58.7   | 59.1   | 60.0   | 61.0   | 60.6   | 59.7   | 57.2   |     |      |      |      |      |
| 315                | 54.9   | 58.3   | 56.9   | 58.1   | 58.7   | 58.5   | 57.7   | 58.6   | 58.2   | 58.3   | 55.5   |     |      |      |      |      |
| 400                | 53.0   | 54.1   | 55.1   | 56.7   | 57.1   | 57.4   | 58.1   | 58.0   | 57.6   | 57.4   | 54.5   |     |      |      |      |      |
| 500                | 51.2   | 52.3   | 53.5   | 54.2   | 56.0   | 56.9   | 57.8   | 58.2   | 57.5   | 57.0   | 53.0   |     |      |      |      |      |
| 630                | 53.1   | 53.9   | 54.1   | 54.3   | 53.9   | 59.5   | 60.9   | 60.5   | 58.4   | 57.1   | 52.8   |     |      |      |      |      |
| 800                | 53.9   | 55.0   | 56.0   | 58.3   | 58.4   | 59.9   | 60.5   | 60.4   | 59.4   | 57.1   | 52.0   |     |      |      |      |      |
| 1000               | 52.9   | 53.9   | 55.1   | 57.8   | 58.9   | 60.0   | 61.4   | 61.5   | 60.5   | 56.7   | 50.4   |     |      |      |      |      |
| 1250               | 53.4   | 54.0   | 56.2   | 58.5   | 61.3   | 62.2   | 63.8   | 63.1   | 61.6   | 57.7   | 50.5   |     |      |      |      |      |
| 1600               | 55.0   | 58.6   | 58.8   | 62.4   | 63.7   | 65.5   | 66.8   | 65.6   | 63.4   | 57.7   | 49.1   |     |      |      |      |      |
| 2000               | 52.2   | 63.6   | 65.3   | 69.3   | 70.3   | 72.6   | 73.9   | 74.4   | 71.4   | 64.6   | 55.8   |     |      |      |      |      |
| 2500               | 58.2   | 58.5   | 60.9   | 64.1   | 68.4   | 69.7   | 69.7   | 69.2   | 66.6   | 58.5   | 50.1   |     |      |      |      |      |
| 3150               | 53.6   | 57.1   | 59.3   | 64.1   | 68.9   | 68.4   | 70.1   | 68.6   | 66.7   | 58.5   | 49.4   |     |      |      |      |      |
| 4000               | 54.8   | 57.3   | 60.8   | 65.2   | 68.7   | 70.7   | 72.1   | 71.8   | 69.3   | 61.3   | 52.3   |     |      |      |      |      |
| 5000               | 51.2   | 53.3   | 54.5   | 61.6   | 64.9   | 67.9   | 68.8   | 67.9   | 64.9   | 57.0   | 47.1   |     |      |      |      |      |
| 6300               | 50.4   | 53.4   | 56.0   | 61.6   | 65.3   | 67.2   | 68.3   | 67.9   | 64.0   | 55.2   | 44.6   |     |      |      |      |      |
| 8000               | 46.1   | 49.3   | 52.0   | 58.5   | 61.4   | 64.7   | 65.9   | 65.3   | 62.3   | 53.8   | 41.1   |     |      |      |      |      |
| 10000              | 43.8   | 47.4   | 51.9   | 58.0   | 60.5   | 63.8   | 65.0   | 65.8   | 61.8   | 51.3   | 37.9   |     |      |      |      |      |
| 12500              | 40.9   | 43.9   | 48.6   | 54.3   | 57.7   | 61.7   | 62.3   | 63.0   | 58.9   | 47.5   | 32.1   |     |      |      |      |      |
| 16000              | 37.9   | 38.4   | 42.4   | 49.1   | 52.6   | 55.8   | 57.2   | 57.0   | 52.4   | 39.8   | 21.9   |     |      |      |      |      |
| 20000              | 37.8   | 32.4   | 37.9   | 45.0   | 48.2   | 56.8   | 52.8   | 52.2   | 46.4   | 32.5   | 9.9    |     |      |      |      |      |
| 25000              | 19.2   | 23.7   | 29.9   | 37.4   | 40.8   | 42.8   | 43.9   | 43.4   | 37.8   | 28.1   |        |     |      |      |      |      |
| 31500              | 4.8    | 12.4   | 19.1   | 27.4   | 30.4   | 32.8   | 32.2   | 29.8   | 21.2   | 8.7    |        |     |      |      |      |      |
| 40000              |        |        | 1.2    | 9.3    | 13.1   | 15.8   | 14.2   | 9.4    |        |        |        |     |      |      |      |      |
| 50000              |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
| 63000              |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
| 80000              |        |        |        |        |        |        |        |        |        |        |        |     |      |      |      |      |
| OVERALL CALCULATED | 67.4   | 69.0   | 71.0   | 74.0   | 76.9   | 78.6   | 80.6   | 78.7   | 77.2   | 71.8   | 67.8   |     |      |      |      |      |
| PNDP               | 80.6   | 82.3   | 84.3   | 88.5   | 90.5   | 92.4   | 93.6   | 93.2   | 90.9   | 84.4   | 76.7   |     |      |      |      |      |

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|                    |                | ANGLES FROM INLET IN DEGREES (AND RADIANS)                                    |      |      |      |       |       |       |       |       |       |       |       |     |      |      |      |       |
|--------------------|----------------|---|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|------|------|-------|
|                    |                | 53  | 62   | 71   | 81   | 91    | 101   | 111   | 122   | 133   | 145   | 156   | 0     | 0   | 0    | 0    | 0    | 0     |
|                    |                | FREQ. (0.72)(1.05)(1.24)(1.41)(1.55)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(3.0) |      |      |      |       |       |       |       |       |       |       |       | PM  |      |      |      |       |
|                    |                | 50  | 63   | 80   | 100  | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630   | 800 | 1000 | 1250 | 1600 | 2000  |
| RADIAL             | 17. FT.        | 100   | 74.7 | 74.4 | 80.4 | 82.7  | 82.1  | 81.2  | 78.1  | 72.7  | 72.0  | 74.1  | 77.6  |     |      |      |      | 113.4 |
| VEHICLE            | R-55           | 125   | 67.2 | 68.2 | 70.4 | 69.7  | 69.1  | 67.4  | 67.9  | 72.4  | 71.2  | 72.3  | 75.1  |     |      |      |      | 104.5 |
| CONFIG             | 75-16          | 160   | 55.2 | 66.4 | 66.2 | 68.4  | 68.4  | 68.2  | 69.8  | 71.2  | 72.5  | 73.6  | 75.6  |     |      |      |      | 104.4 |
| LCC                | SCHENECTADY    | 200   | 64.7 | 67.7 | 65.1 | 67.4  | 68.6  | 69.9  | 70.6  | 73.6  | 73.0  | 75.6  | 76.6  |     |      |      |      | 105.4 |
| DATE               | 1/17/75        | 250   | 56.2 | 67.4 | 68.9 | 69.9  | 70.1  | 70.1  | 71.6  | 72.9  | 72.5  | 74.3  | 75.3  |     |      |      |      | 105.5 |
| RUN                | 54/6           | 315   | 59.7 | 70.4 | 70.6 | 71.4  | 71.4  | 71.4  | 71.6  | 73.4  | 72.5  | 74.3  | 75.1  |     |      |      |      | 106.2 |
| TAP                |                | 400   | 67.5 | 68.4 | 68.6 | 69.7  | 69.9  | 70.9  | 71.6  | 72.6  | 72.2  | 73.6  | 74.1  |     |      |      |      | 105.3 |
| BAR                | 29.7 HG        | 500   | 65.5 | 67.4 | 68.1 | 69.2  | 69.6  | 70.7  | 71.6  | 73.2  | 73.5  | 74.1  | 73.9  |     |      |      |      | 105.4 |
|                    | 100401.4/M21   | 630   | 70.6 | 70.7 | 72.2 | 72.7  | 73.4  | 74.2  | 75.9  | 76.7  | 76.2  | 76.6  | 74.1  |     |      |      |      | 109.0 |
| TAMB               | 43. DEG F      | 800   | 77.8 | 78.9 | 78.9 | 72.4  | 72.6  | 73.9  | 75.6  | 79.9  | 77.2  | 77.6  | 74.4  |     |      |      |      | 109.4 |
|                    | 1279. DEG K1   | 1000  | 69.6 | 69.9 | 70.1 | 72.1  | 73.4  | 75.4  | 77.6  | 81.4  | 80.2  | 80.6  | 74.9  |     |      |      |      | 111.1 |
| T-ET               | 36. DEG F      | 1250  | 76.8 | 76.2 | 76.1 | 79.9  | 81.2  | 84.5  | 85.6  | 86.4  | 86.7  | 87.6  | 79.9  |     |      |      |      | 117.9 |
|                    | 1278. DEG K1   | 1600  | 75.1 | 75.2 | 75.6 | 77.5  | 80.2  | 82.0  | 84.1  | 84.9  | 84.2  | 84.1  | 77.6  |     |      |      |      | 115.9 |
| MACT               | 4.60 CM/MS     | 2000  | 74.1 | 74.0 | 75.4 | 79.7  | 80.2  | 82.5  | 83.6  | 84.4  | 83.5  | 83.4  | 78.1  |     |      |      |      | 115.6 |
|                    | 1.00400 KG/MS  | 2500  | 74.4 | 75.8 | 77.1 | 80.1  | 83.5  | 85.0  | 86.8  | 88.1  | 90.0  | 87.7  | 82.1  |     |      |      |      | 119.6 |
| NFA                | 5405. RPM      | 3150  | 71.9 | 74.8 | 75.1 | 78.0  | 82.3  | 84.3  | 85.5  | 86.3  | 87.5  | 85.7  | 79.8  |     |      |      |      | 117.7 |
|                    | 1.572. RAD/SEC | 4000  | 71.6 | 73.0 | 74.1 | 77.6  | 80.8  | 84.0  | 86.2  | 87.0  | 87.2  | 84.9  | 78.5  |     |      |      |      | 117.7 |
| NFK                | 5451. RPM      | 5000  | 67.3 | 68.7 | 70.8 | 74.6  | 78.2  | 81.2  | 84.2  | 84.7  | 84.9  | 82.3  | 76.2  |     |      |      |      | 119.3 |
|                    | 1.581. RAD/SEC | 6300  | 65.9 | 67.3 | 69.0 | 73.3  | 76.1  | 80.2  | 83.2  | 83.5  | 83.9  | 80.9  | 75.1  |     |      |      |      | 114.1 |
| NFD                | 8823. RPM      | 8000  | 64.3 | 67.0 | 68.0 | 72.3  | 75.3  | 79.4  | 81.5  | 82.3  | 83.0  | 79.7  | 74.4  |     |      |      |      | 113.1 |
|                    | 1.924. RAD/SEC | 10000   | 64.1 | 65.8 | 67.6 | 72.1  | 76.2  | 79.2  | 81.5  | 84.0  | 85.4  | 80.8  | 74.8  |     |      |      |      | 114.5 |
| NO. OF BLADES      | 15             | 12500   | 64.1 | 65.1 | 66.7 | 71.7  | 75.8  | 78.1  | 80.4  | 83.4  | 84.9  | 80.9  | 74.6  |     |      |      |      | 114.1 |
| FAN TIP SPEED      | 16000          | 62.1  | 63.3 | 65.1 | 70.1 | 74.3  | 76.8  | 79.2  | 82.4  | 83.4  | 83.4  | 79.2  | 73.5  |     |      |      |      | 113.1 |
|                    | 477. FT/SEC    | 20000   | 61.4 | 62.5 | 64.1 | 69.4  | 73.7  | 76.8  | 78.9  | 81.8  | 83.4  | 79.8  | 73.3  |     |      |      |      | 113.5 |
|                    |                | 25000   | 60.7 | 61.2 | 62.2 | 68.3  | 71.4  | 74.0  | 76.7  | 79.0  | 80.9  | 77.2  | 70.2  |     |      |      |      | 111.5 |
|                    |                | 31500   | 59.8 | 60.4 | 62.3 | 70.1  | 72.8  | 75.2  | 76.8  | 78.8  | 80.2  | 76.3  | 68.9  |     |      |      |      | 112.2 |
|                    |                | 40000   | 58.9 | 58.9 | 60.7 | 68.0  | 70.5  | 72.6  | 75.2  | 76.3  | 77.6  | 74.6  | 64.9  |     |      |      |      | 111.1 |
|                    |                | 50000   | 59.5 | 58.4 | 60.4 | 68.9  | 67.0  | 69.1  | 70.8  | 71.2  | 71.8  | 70.8  | 63.2  |     |      |      |      | 109.8 |
|                    |                | 63000   | 63.5 | 58.5 | 60.5 | 67.2  | 66.7  | 68.1  | 67.6  | 67.3  | 66.8  | 66.8  | 63.3  |     |      |      |      | 109.8 |
|                    |                | 80000   | 62.9 | 62.9 | 60.7 | 67.9  | 67.6  | 68.2  | 68.5  | 67.6  | 66.3  | 66.7  | 65.8  |     |      |      |      | 113.6 |
| OVERALL MEASURED   |                |   |      |      |      |       |       |       |       |       |       |       |       |     |      |      |      |       |
| OVERALL CALCULATED |                |   | 84.6 | 85.4 | 86.7 | 89.8  | 91.7  | 94.0  | 95.5  | 96.8  | 97.4  | 95.7  | 90.6  |     |      |      |      | 120.3 |
|                    |                |   | 96.6 | 97.8 | 99.0 | 101.3 | 104.5 | 106.9 | 108.3 | 109.4 | 110.3 | 106.6 | 103.7 |     |      |      |      |       |

|                    |             | 51      | 62      | 71      | 81      | 91      | 101     | 111     | 122     | 131     | 145     | 150     | 0.   | 0. | 0. | 0. | 0. |
|--------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|----|----|----|----|
|                    | PREJ.       | (10.92) | (11.08) | (11.24) | (11.41) | (11.58) | (11.75) | (11.92) | (12.13) | (12.32) | (12.52) | (12.73) | 0.   | 0. | 0. | 0. | 0. |
|                    | 70          |         |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |
|                    | 63          |         |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |
|                    | 60          |         |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |
| SIDE LINE          | 200. FT.    | 109     | 51.0    | 51.7    | 50.3    | 51.0    | 62.5    | 59.4    | 55.0    | 49.6    | 47.5    | 49.5    | 47.5 |    |    |    |    |
| VEHICLE            | 60.96 HJ    | 125     | 43.5    | 45.4    | 48.2    | 48.9    | 47.5    | 47.0    | 44.4    | 49.3    | 44.7    | 45.7    | 44.0 |    |    |    |    |
| CONFIC             | R-59        | 160     | 41.4    | 43.5    | 43.0    | 44.4    | 45.5    | 44.3    | 47.2    | 47.0    | 47.8    | 47.0    | 45.1 |    |    |    |    |
| LCC                | SC-ENECTAV  | 200     | 43.0    | 43.7    | 42.4    | 45.5    | 45.4    | 47.2    | 48.2    | 50.3    | 48.2    | 48.0    | 46.2 |    |    |    |    |
| DATE               | 1/17/75     | 250     | 42.1    | 44.3    | 46.5    | 47.2    | 48.2    | 48.1    | 49.1    | 49.5    | 47.6    | 47.2    | 44.5 |    |    |    |    |
| RUN                | 54.6        | 315     | 45.6    | 47.3    | 48.1    | 49.3    | 49.4    | 49.3    | 49.2    | 49.0    | 47.5    | 47.1    | 44.0 |    |    |    |    |
| TAPE               |             | 400     | 43.2    | 45.2    | 46.1    | 47.5    | 47.8    | 48.7    | 48.0    | 49.0    | 47.1    | 44.2    | 42.0 |    |    |    |    |
| BAR                | 20.7 MC     | 510     | 42.1    | 44.1    | 45.5    | 45.9    | 47.5    | 48.4    | 48.8    | 49.4    | 48.2    | 46.5    | 42.3 |    |    |    |    |
| (30401)            | 4/M21       | 630     | 44.5    | 47.2    | 47.4    | 50.3    | 51.2    | 51.8    | 52.9    | 54.8    | 50.9    | 49.1    | 42.3 |    |    |    |    |
| TAPE               | 43. DEG F   | 800     | 46.1    | 47.3    | 48.0    | 50.9    | 50.3    | 51.4    | 52.5    | 55.9    | 51.7    | 49.6    | 42.2 |    |    |    |    |
|                    | 1270. DEG K | 1000    | 47.7    | 48.2    | 47.1    | 48.9    | 50.0    | 52.0    | 54.4    | 57.3    | 54.5    | 52.4    | 42.4 |    |    |    |    |
| T-ET               | 30. DEG F   | 1250    | 51.0    | 52.3    | 53.0    | 57.0    | 56.9    | 61.7    | 62.3    | 62.1    | 60.0    | 59.2    | 47.0 |    |    |    |    |
|                    | 1276. DEG K | 1600    | 49.0    | 51.1    | 52.3    | 55.4    | 57.4    | 59.0    | 60.4    | 60.4    | 58.1    | 55.4    | 44.3 |    |    |    |    |
| HACT               | 4.80 CM/PS  | 2000    | 48.7    | 49.7    | 51.0    | 54.2    | 57.3    | 59.4    | 59.0    | 59.7    | 57.1    | 54.3    | 44.4 |    |    |    |    |
| (100460)           | 40/M21      | 2500    | 48.7    | 51.3    | 53.4    | 56.0    | 60.4    | 62.7    | 62.9    | 63.2    | 63.4    | 54.3    | 47.9 |    |    |    |    |
| NFA                | 5465. RPM   | 3150    | 45.0    | 47.0    | 51.1    | 55.4    | 58.2    | 60.7    | 61.4    | 61.1    | 60.5    | 54.4    | 44.0 |    |    |    |    |
| (1572)             | 247/SEC     | 4000    | 45.0    | 47.7    | 49.6    | 53.7    | 55.2    | 60.0    | 61.4    | 61.3    | 59.4    | 54.3    | 42.5 |    |    |    |    |
| MFK                | 5551. RPM   | 5000    | 41.2    | 43.2    | 48.1    | 50.4    | 54.2    | 56.2    | 59.3    | 58.7    | 57.0    | 51.3    | 38.6 |    |    |    |    |
| (1581)             | 240/SEC     | 6300    | 38.1    | 40.0    | 43.5    | 48.3    | 51.4    | 55.2    | 57.5    | 56.7    | 55.0    | 47.0    | 36.6 |    |    |    |    |
| MFD                | 823. RPM    | 8000    | 35.1    | 38.2    | 41.4    | 45.0    | 49.5    | 53.3    | 54.7    | 54.1    | 52.4    | 44.5    | 33.1 |    |    |    |    |
| (1924)             | 240/SEC     | 10000   | 33.0    | 36.5    | 39.4    | 44.3    | 48.6    | 51.5    | 53.1    | 54.1    | 52.9    | 43.9    | 29.6 |    |    |    |    |
| NO. OF BLADES      | 15          | 12500   | 30.2    | 33.2    | 36.2    | 41.0    | 46.3    | 48.3    | 49.6    | 50.0    | 49.2    | 40.1    | 23.0 |    |    |    |    |
| FAN TIP SPEED      |             | 18000   | 23.6    | 27.3    | 30.8    | 36.7    | 41.2    | 43.3    | 44.5    | 45.5    | 42.7    | 32.0    | 13.2 |    |    |    |    |
|                    | 477. FT/SEC | 20000   | 18.8    | 21.0    | 24.7    | 31.3    | 35.3    | 38.4    | 39.1    | 39.2    | 38.5    | 24.0    | 8.5  |    |    |    |    |
|                    |             | 25000   | 7.4     | 12.3    | 15.6    | 23.2    | 26.5    | 28.0    | 29.6    | 28.4    | 24.0    | 9.4     |      |    |    |    |    |
|                    |             | 31500   |         |         | 5.2     | 15.0    | 18.2    | 19.0    | 18.0    | 16.3    | 9.5     |         |      |    |    |    |    |
|                    |             | 40000   |         |         |         |         | 1.1     | 2.2     | 1.5     |         |         |         |      |    |    |    |    |
|                    |             | 50000   |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |
|                    |             | 63000   |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |
|                    |             | 80000   |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |
| OVERALL CALCULATED |             |         | 49.4    | 61.2    | 63.5    | 66.6    | 68.3    | 70.1    | 70.8    | 70.8    | 69.5    | 65.8    | 57.3 |    |    |    |    |
|                    |             |         | 70.6    | 73.0    | 74.9    | 78.4    | 81.2    | 83.3    | 84.0    | 84.2    | 83.3    | 78.0    | 69.1 |    |    |    |    |





|                     | 50    | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170 | 180 | 190 | 200 |
|---------------------|-------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| SIGNAL 700 FT.      | 100   | 48.3 | 51.5 | 55.1 | 54.8 | 55.7 | 55.4 | 58.0 | 45.0 | 47.5 | 47.5 | 46.0 |     |     |     |     |
| VEHICLE R-59        | 120   | 42.3 | 46.1 | 49.5 | 47.5 | 49.7 | 48.1 | 45.2 | 48.4 | 47.6 | 44.8 | 44.4 |     |     |     |     |
| CJW/IC 75-11        | 140   | 43.0 | 42.3 | 42.0 | 44.9 | 44.9 | 44.3 | 46.7 | 47.3 | 47.3 | 47.0 | 45.0 |     |     |     |     |
| LOC SC-ELECTRBY     | 230   | 49.0 | 47.0 | 42.0 | 44.5 | 45.3 | 47.4 | 47.4 | 49.0 | 48.0 | 47.0 | 46.2 |     |     |     |     |
| DATE 1/17/75        | 250   | 47.0 | 45.6 | 46.3 | 47.5 | 49.2 | 48.3 | 48.5 | 48.8 | 48.3 | 46.4 | 44.3 |     |     |     |     |
| RAW 57/1            | 315   | 45.3 | 48.9 | 48.7 | 49.5 | 57.1 | 50.9 | 49.7 | 48.7 | 48.0 | 46.0 | 44.1 |     |     |     |     |
| TAPE                | 430   | 43.0 | 45.0 | 45.4 | 47.5 | 47.5 | 48.7 | 49.6 | 48.1 | 47.4 | 44.1 | 43.1 |     |     |     |     |
| BAR 30.2 MC         | 520   | 42.2 | 44.8 | 45.2 | 45.5 | 47.4 | 49.0 | 49.2 | 49.5 | 49.0 | 46.7 | 42.0 |     |     |     |     |
| (6100. 1/42)        | 610   | 44.1 | 48.0 | 48.1 | 50.7 | 51.0 | 53.6 | 53.4 | 52.7 | 51.4 | 48.5 | 42.0 |     |     |     |     |
| TARD 3. DEC F       | 400   | 45.7 | 49.1 | 47.5 | 50.7 | 55.5 | 41.9 | 52.7 | 57.8 | 51.7 | 49.0 | 43.0 |     |     |     |     |
| (272. DEC H)        | 1030  | 43.0 | 46.0 | 46.6 | 49.7 | 51.4 | 53.3 | 54.6 | 54.0 | 55.3 | 52.6 | 43.2 |     |     |     |     |
| T-ET 21. DEC F      | 1230  | 50.4 | 51.6 | 52.5 | 54.0 | 59.3 | 61.4 | 62.2 | 62.0 | 60.0 | 50.0 | 47.0 |     |     |     |     |
| (267. DEC H)        | 1820  | 47.4 | 50.1 | 51.1 | 53.5 | 56.0 | 44.0 | 59.5 | 50.0 | 57.4 | 54.0 | 43.7 |     |     |     |     |
| HACT 0.42 CM/MS     | 2000  | 45.2 | 53.4 | 51.4 | 54.5 | 56.7 | 58.0 | 59.0 | 50.3 | 56.1 | 53.0 | 44.7 |     |     |     |     |
| (00042 CM/MS)       | 2500  | 46.2 | 50.5 | 51.4 | 55.4 | 58.3 | 61.4 | 61.0 | 61.5 | 60.0 | 55.2 | 45.0 |     |     |     |     |
| MFA 5301. RPM       | 3150  | 41.3 | 47.6 | 46.5 | 50.0 | 54.2 | 48.0 | 57.7 | 50.1 | 54.4 | 50.0 | 40.0 |     |     |     |     |
| ( 581. 447/SFC)     | 4000  | 42.9 | 48.0 | 47.7 | 52.1 | 55.5 | 54.0 | 50.0 | 54.3 | 57.5 | 52.0 | 41.5 |     |     |     |     |
| MFX 5517. RPM       | 5030  | 40.3 | 48.0 | 45.7 | 50.8 | 50.7 | 57.0 | 50.0 | 50.1 | 57.1 | 51.6 | 40.0 |     |     |     |     |
| ( 570. 042/SFC)     | 6300  | 39.1 | 48.4 | 45.5 | 49.2 | 53.9 | 57.9 | 50.5 | 57.0 | 56.5 | 50.7 | 39.0 |     |     |     |     |
| MFD 9023. RPM       | 8030  | 38.5 | 47.2 | 42.4 | 47.4 | 51.3 | 54.9 | 59.7 | 55.0 | 54.0 | 40.7 | 39.1 |     |     |     |     |
| ( 924. 042/SFC)     | 11000 | 34.0 | 47.2 | 40.0 | 46.0 | 50.4 | 54.1 | 54.5 | 54.9 | 54.0 | 46.3 | 32.0 |     |     |     |     |
| NO. OF BLADES 15    | 12500 | 30.0 | 42.0 | 37.1 | 42.4 | 47.2 | 50.3 | 51.0 | 51.0 | 49.0 | 41.1 | 28.3 |     |     |     |     |
| FAN TIP SPEED 10000 | 16000 | 23.6 | 39.4 | 30.0 | 36.6 | 41.0 | 43.7 | 44.0 | 45.3 | 42.5 | 30.2 | 13.3 |     |     |     |     |
| 400. FT/SEC         | 20000 | 19.0 | 30.0 | 25.1 | 30.9 | 36.2 | 38.0 | 38.3 | 39.0 | 38.4 | 23.9 | 9.7  |     |     |     |     |
|                     | 25000 | 5.0  | 24.6 | 15.5 | 22.0 | 26.5 | 28.4 | 29.2 | 28.4 | 23.0 | 9.1  |      |     |     |     |     |
|                     | 31500 |      | 11.0 | 4.5  | 12.7 | 17.3 | 19.0 | 18.5 | 16.3 | 8.2  |      |      |     |     |     |     |
|                     | 40000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
|                     | 50000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
|                     | 63000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
|                     | 80000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| OVERALL CALCULATED  | ATC0  | 57.8 | 61.6 | 62.1 | 65.6 | 67.2 | 69.4 | 69.0 | 69.7 | 68.9 | 64.8 | 57.0 |     |     |     |     |
|                     | PR00  | 60.0 | 73.6 | 73.0 | 77.3 | 80.0 | 82.0 | 83.1 | 82.0 | 81.0 | 77.3 | 60.2 |     |     |     |     |

ORIGINAL PAGE IS OF POOR QUALITY

036

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL S 107

POSITIVE LEVEL 150. DEG. P. 70 PERCENT

PREC. DATE - MONTH 3 DAY 25 NO. 13.2

ANGLE'S FOUR TILT IN DEGREES (AMP RADIANS)

C. MUM. DAY1

|                     | 72    | 62   | 71   | 81    | 91    | 101   | 111   | 122   | 133   | 143   | 153   | 0.    | 0. | 0. | 0. | 0. | 0. | 0.    |
|---------------------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|-------|
| RADIAL 17. FT.      | 150   | 75.3 | 75.4 | 73.4  | 75.9  | 75.4  | 71.7  | 68.4  | 69.4  | 72.7  | 76.6  | 80.4  |    |    |    |    |    | 100.0 |
| VEHICLE 5. M1       | 150   | 79.7 | 79.9 | 77.9  | 72.4  | 72.1  | 76.7  | 73.4  | 73.9  | 74.7  | 74.6  | 79.4  |    |    |    |    |    | 107.5 |
| CYCLIC 75-M         | 160   | 67.4 | 69.4 | 69.3  | 76.7  | 75.4  | 75.4  | 72.4  | 74.2  | 74.6  | 74.6  | 80.4  |    |    |    |    |    | 107.9 |
| LAC SCHEMATIC       | 220   | 67.3 | 69.1 | 69.9  | 76.7  | 71.4  | 73.2  | 74.4  | 74.2  | 77.6  | 70.3  | 80.6  |    |    |    |    |    | 100.0 |
| DATE 1/17/75        | 270   | 75.5 | 71.4 | 71.9  | 72.7  | 73.1  | 73.9  | 74.9  | 75.9  | 74.2  | 77.0  | 79.3  |    |    |    |    |    | 100.0 |
| DIR 5/2             | 315   | 72.6 | 77.6 | 73.9  | 74.4  | 74.6  | 75.2  | 75.6  | 75.7  | 74.5  | 74.1  | 79.4  |    |    |    |    |    | 100.0 |
| TAPE 410            | 410   | 75.6 | 71.1 | 71.4  | 72.7  | 72.4  | 73.7  | 74.6  | 75.4  | 74.6  | 77.4  | 78.1  |    |    |    |    |    | 100.4 |
| BAC 30.2 MG         | 530   | 69.4 | 69.7 | 76.4  | 71.5  | 72.4  | 74.6  | 75.4  | 76.4  | 77.6  | 77.9  | 77.6  |    |    |    |    |    | 100.0 |
| (31000. 1/2M2)      | 630   | 73.2 | 72.9 | 74.7  | 75.5  | 76.7  | 77.7  | 76.1  | 76.4  | 79.5  | 79.1  | 77.6  |    |    |    |    |    | 111.5 |
| TAMP 10. CEC F      | 630   | 75.2 | 73.7 | 73.4  | 74.5  | 75.7  | 77.2  | 78.4  | 74.7  | 80.0  | 79.9  | 77.4  |    |    |    |    |    | 111.1 |
| 1272. 1/2 MG K1     | 1000  | 71.2 | 72.4 | 72.4  | 74.5  | 74.2  | 78.5  | 80.4  | 82.2  | 83.2  | 82.4  | 77.4  |    |    |    |    |    | 113.1 |
| TRCY 21. CEC F      | 1250  | 73.4 | 73.7 | 74.9  | 75.3  | 79.7  | 81.5  | 83.9  | 84.4  | 85.0  | 84.6  | 79.9  |    |    |    |    |    | 119.7 |
| 1257. 1/2 MG K1     | 1400  | 66.2 | 66.2 | 61.6  | 65.1  | 67.2  | 69.0  | 69.6  | 69.2  | 91.0  | 91.2  | 83.4  |    |    |    |    |    | 121.0 |
| MACT 0.02 MG/M3     | 2000  | 75.2 | 74.3 | 77.6  | 80.1  | 82.2  | 84.5  | 85.8  | 86.1  | 86.0  | 85.1  | 88.4  |    |    |    |    |    | 117.4 |
| 1.30042 MG/M3       | 2500  | 72.9 | 74.2 | 76.4  | 78.5  | 82.2  | 84.5  | 85.4  | 84.1  | 86.7  | 87.4  | 78.3  |    |    |    |    |    | 117.2 |
| MFA 131. 00M        | 3150  | 74.4 | 75.7 | 77.8  | 79.4  | 81.2  | 85.5  | 87.2  | 88.5  | 89.4  | 87.4  | 88.0  |    |    |    |    |    | 119.0 |
| 1 642. 00M/SEC      | 4000  | 78.5 | 72.6 | 74.2  | 79.2  | 81.4  | 85.0  | 85.4  | 85.9  | 86.1  | 83.3  | 79.2  |    |    |    |    |    | 117.2 |
| MPI 6310. 00M       | 5000  | 71.4 | 72.3 | 74.4  | 79.7  | 82.6  | 85.5  | 87.3  | 88.1  | 88.5  | 85.2  | 79.1  |    |    |    |    |    | 118.7 |
| 1 631. 00M/SEC      | 6300  | 74.9 | 72.8 | 74.5  | 79.5  | 82.4  | 85.0  | 87.2  | 88.8  | 89.4  | 85.3  | 79.9  |    |    |    |    |    | 119.1 |
| MFD 6223. 00M       | 8000  | 69.0 | 72.1 | 73.4  | 79.1  | 81.2  | 84.5  | 87.1  | 88.2  | 88.9  | 84.9  | 79.8  |    |    |    |    |    | 118.7 |
| 1 626. 00M/SEC      | 11000 | 69.3 | 71.3 | 73.6  | 79.5  | 82.4  | 84.9  | 87.5  | 89.5  | 90.2  | 85.3  | 88.6  |    |    |    |    |    | 119.0 |
| NO. OF SLABS 15     | 12500 | 69.1 | 70.2 | 72.4  | 75.1  | 81.6  | 83.1  | 86.4  | 89.2  | 89.4  | 84.5  | 79.2  |    |    |    |    |    | 119.1 |
| FAN TIP SPEED 10000 | 10000 | 65.2 | 67.1 | 68.9  | 75.9  | 77.7  | 80.5  | 83.4  | 84.4  | 86.7  | 81.5  | 76.0  |    |    |    |    |    | 116.0 |
| 335. FT/SEC         | 20000 | 65.6 | 66.7 | 69.0  | 75.5  | 78.1  | 81.0  | 83.5  | 86.6  | 88.2  | 82.9  | 77.2  |    |    |    |    |    | 117.0 |
| 25000               | 25000 | 63.4 | 65.3 | 67.1  | 73.9  | 75.4  | 78.3  | 80.9  | 84.0  | 84.8  | 80.9  | 74.0  |    |    |    |    |    | 115.5 |
| 31500               | 31500 | 62.3 | 64.3 | 64.3  | 73.3  | 75.7  | 78.8  | 80.6  | 83.5  | 83.7  | 78.9  | 72.2  |    |    |    |    |    | 115.9 |
| 45000               | 45000 | 63.9 | 62.1 | 63.1  | 64.4  | 73.5  | 73.5  | 74.5  | 74.6  | 74.4  | 75.2  | 65.0  |    |    |    |    |    | 112.7 |
| 50000               | 50000 | 61.6 | 61.3 | 62.6  | 64.4  | 67.0  | 69.7  | 72.0  | 72.7  | 73.7  | 71.1  | 62.0  |    |    |    |    |    | 109.7 |
| 63000               | 63000 | 63.0 | 61.5 | 62.7  | 62.4  | 62.6  | 64.9  | 66.0  | 66.0  | 66.1  | 64.9  | 59.0  |    |    |    |    |    | 107.0 |
| 43000               | 43000 | 44.3 | 66.2 | 64.9  | 62.5  | 62.7  | 63.4  | 63.0  | 63.0  | 61.0  | 62.4  | 61.3  |    |    |    |    |    | 110.0 |
| OVERALL MEASURED    |       |      |      |       |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
| OVERALL CALCULATED  |       | 66.7 | 67.3 | 68.5  | 61.0  | 64.2  | 66.5  | 66.2  | 69.5  | 100.2 | 97.5  | 93.3  |    |    |    |    |    | 110.7 |
| DIFF                |       | 98.7 | 99.5 | 100.0 | 104.0 | 130.5 | 108.7 | 116.2 | 111.2 | 112.0 | 109.5 | 108.0 |    |    |    |    |    |       |

|                                 | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0.   | 0.  | 0.  | 0.  | 0.   |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|------|
| FREQ.                           | (0.92) | (1.03) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | (0. | (0. | (0. | (0.) |
| SIDELINE 200. FT.<br>( 09.06 M) | 100    | 52.6   | 52.7   | 51.3   | 54.2   | 53.8   | 49.9   | 46.2   | 46.3   | 48.3   | 50.0   | 50.3 |     |     |     |      |
| VEHICLE R=55                    | 125    | 45.5   | 48.1   | 50.7   | 50.7   | 50.5   | 46.9   | 48.1   | 50.4   | 50.2   | 49.9   | 49.1 |     |     |     |      |
| CONFIG 75-IN                    | 160    | 45.9   | 46.5   | 47.7   | 48.0   | 49.7   | 48.5   | 50.3   | 50.9   | 51.3   | 51.9   | 49.7 |     |     |     |      |
| LOC SCHENECTADY                 | 220    | 45.1   | 46.2   | 47.6   | 48.7   | 49.6   | 51.2   | 51.9   | 52.8   | 52.2   | 52.4   | 49.9 |     |     |     |      |
| DATE 1/17/75                    | 270    | 46.5   | 48.3   | 49.5   | 50.7   | 51.2   | 51.9   | 52.3   | 52.5   | 51.4   | 50.7   | 48.5 |     |     |     |      |
| ROL 55/2                        | 315    | 48.4   | 50.5   | 51.4   | 52.3   | 52.7   | 53.0   | 53.0   | 52.1   | 51.5   | 50.4   | 48.3 |     |     |     |      |
| TAPE                            | 400    | 46.3   | 47.9   | 48.8   | 50.5   | 50.6   | 51.5   | 51.9   | 51.8   | 50.9   | 49.9   | 46.8 |     |     |     |      |
| GAP 30.2 MG<br>(01890. N/H2)    | 500    | 45.0   | 46.5   | 47.7   | 49.2   | 50.3   | 51.6   | 52.6   | 52.7   | 51.8   | 50.3   | 46.1 |     |     |     |      |
| TAMB 30. DEG F                  | 630    | 48.4   | 48.4   | 51.9   | 53.1   | 54.4   | 55.3   | 56.2   | 55.6   | 54.1   | 51.4   | 45.8 |     |     |     |      |
| 1272. DEG K                     | 800    | 48.5   | 50.0   | 50.5   | 52.0   | 53.3   | 54.4   | 55.3   | 54.7   | 54.5   | 51.9   | 45.2 |     |     |     |      |
| 210. DEG F                      | 1000   | 46.3   | 48.6   | 49.4   | 51.9   | 53.7   | 55.5   | 57.2   | 58.0   | 57.5   | 54.2   | 44.9 |     |     |     |      |
| 1267. DEG K                     | 1250   | 48.4   | 49.8   | 51.7   | 53.3   | 57.1   | 58.7   | 60.5   | 60.1   | 59.1   | 56.2   | 46.1 |     |     |     |      |
| 0.42 GM/M3                      | 1600   | 55.0   | 56.1   | 58.3   | 62.4   | 64.5   | 66.1   | 66.3   | 64.7   | 64.9   | 62.4   | 50.1 |     |     |     |      |
| 100042 (G/M3)                   | 2000   | 49.7   | 51.6   | 54.1   | 57.4   | 59.3   | 61.4   | 62.1   | 61.4   | 59.6   | 56.1   | 46.6 |     |     |     |      |
| 6131. RPM                       | 2500   | 47.2   | 47.7   | 52.6   | 56.6   | 59.1   | 61.2   | 61.9   | 61.2   | 60.1   | 54.0   | 44.1 |     |     |     |      |
| 642. RAD/SEC                    | 3150   | 48.3   | 50.8   | 53.0   | 57.0   | 59.8   | 61.9   | 63.0   | 63.3   | 62.4   | 53.5   | 45.1 |     |     |     |      |
| 6310. RPM                       | 4000   | 44.0   | 47.3   | 49.7   | 55.1   | 58.6   | 61.6   | 60.7   | 60.2   | 58.5   | 52.7   | 43.2 |     |     |     |      |
| 661. RAD/SEC                    | 5000   | 44.6   | 46.7   | 49.7   | 54.3   | 58.5   | 61.3   | 62.4   | 62.0   | 60.4   | 54.2   | 42.5 |     |     |     |      |
| 882. RPM                        | 6300   | 43.2   | 46.4   | 49.0   | 53.6   | 57.6   | 60.0   | 61.6   | 61.9   | 60.5   | 53.1   | 41.4 |     |     |     |      |
| 924. RAD/SEC                    | 8000   | 40.8   | 44.4   | 47.0   | 52.4   | 56.4   | 58.4   | 60.3   | 60.0   | 58.5   | 50.7   | 38.6 |     |     |     |      |
| 12570                           | 10000  | 38.2   | 42.1   | 45.6   | 52.0   | 55.0   | 57.3   | 59.1   | 59.6   | 57.6   | 46.4   | 35.4 |     |     |     |      |
| 16000                           | 12500  | 35.2   | 38.3   | 41.9   | 48.4   | 52.0   | 53.3   | 55.6   | 56.6   | 53.8   | 43.7   | 28.2 |     |     |     |      |
| 20000                           | 16000  | 28.7   | 31.1   | 34.6   | 41.5   | 44.6   | 47.0   | 48.7   | 49.5   | 46.0   | 34.2   | 16.5 |     |     |     |      |
| 25000                           | 20000  | 20.9   | 25.3   | 29.6   | 37.2   | 40.3   | 42.7   | 43.7   | 44.1   | 40.9   | 27.2   | 4.4  |     |     |     |      |
| 31500                           | 25000  | 10.5   | 16.0   | 20.5   | 27.9   | 30.8   | 33.1   | 33.8   | 33.3   | 28.0   | 12.1   |      |     |     |     |      |
| 40000                           | 31500  |        | 3.7    | 9.2    | 16.1   | 21.1   | 23.4   | 22.8   | 21.0   | 13.0   |        |      |     |     |     |      |
| 50000                           | 40000  |        |        |        | 1.2    | 3.1    | 2.7    |        |        |        |        |      |     |     |     |      |
| 63000                           | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |      |
| 80000                           | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |      |
| OVERALL CALCULATED              |        | 61.3   | 62.9   | 64.7   | 66.0   | 70.2   | 72.1   | 72.9   | 72.5   | 71.5   | 67.4   | 60.1 |     |     |     |      |
| PNDR                            |        | 72.9   | 74.7   | 76.8   | 80.5   | 83.0   | 84.9   | 85.9   | 85.8   | 84.8   | 80.0   | 70.1 |     |     |     |      |

OF POOR QUALITY  
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MODEL SOUND PRESSURE LEVELS (50. DFG, F. 70 PERCENT R. L. NUM. DAY)

|                    | FREQ. | ANGLES FROM INLET IN DEGREES (AND RADIAN) |        |        |        |        |        |        |        |        |        |        |    |    |      |      |      |      |  |
|--------------------|-------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----|------|------|------|------|--|
|                    |       | 51.                                       | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0. | 0. | 0.   | 0.   | 0.   | 0.   |  |
|                    |       | (1.92)                                    | (1.08) | (1.24) | (1.41) | (1.59) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0. | 0. | 1(0. | 1(0. | 1(0. | 1(0. |  |
| SIDELINE 200. FT.  | 50    |   |        |        |        |        |        |        |        |        |        |        |    |    |      |      |      |      |  |
| (60.96 M)          | 63    |   |        |        |        |        |        |        |        |        |        |        |    |    |      |      |      |      |  |
| VEHICLE R-55       | 80    | 43.4                                      | 50.9   | 53.4   | 52.5   | 50.3   | 51.2   | 50.2   | 49.6   | 51.6   | 53.5   | 54.1   |    |    |      |      |      |      |  |
| CONFIG 75-1H       | 100   | 47.4                                      | 57.3   | 54.3   | 57.9   | 54.2   | 54.4   | 52.8   | 54.0   | 54.2   | 54.2   | 53.1   |    |    |      |      |      |      |  |
| LCC SCHEMECTAV     | 125   | 48.4                                      | 49.7   | 50.4   | 52.0   | 51.2   | 42.0   | 53.8   | 54.2   | 54.4   | 54.8   | 54.8   |    |    |      |      |      |      |  |
| DATE 1/17/75       | 150   | 47.3                                      | 47.9   | 49.8   | 51.7   | 52.6   | 54.4   | 54.7   | 55.3   | 55.2   | 56.1   | 53.9   |    |    |      |      |      |      |  |
| REL. 55/3          | 200   | 50.0                                      | 51.8   | 51.2   | 54.2   | 54.7   | 55.1   | 55.8   | 55.7   | 55.6   | 55.0   | 52.7   |    |    |      |      |      |      |  |
| TARE               | 250   | 51.6                                      | 53.5   | 54.4   | 56.1   | 55.7   | 46.3   | 56.0   | 55.4   | 54.8   | 54.6   | 51.4   |    |    |      |      |      |      |  |
| BAR J2-2 HG        | 300   | 47.3                                      | 50.9   | 51.3   | 53.5   | 53.3   | 53.7   | 54.7   | 54.8   | 54.4   | 53.4   | 51.5   |    |    |      |      |      |      |  |
| (31890. 1/M2)      | 400   | 47.5                                      | 49.8   | 49.7   | 52.9   | 52.3   | 54.1   | 54.8   | 55.8   | 54.5   | 53.9   | 49.6   |    |    |      |      |      |      |  |
| TANG 30. DEG F     | 500   | 50.9                                      | 52.2   | 53.6   | 57.1   | 56.0   | 57.8   | 58.5   | 58.1   | 57.1   | 54.9   | 49.3   |    |    |      |      |      |      |  |
| (272. DEG F)       | 600   | 51.0                                      | 51.8   | 53.3   | 55.7   | 55.8   | 56.7   | 57.3   | 57.7   | 56.5   | 54.4   | 49.0   |    |    |      |      |      |      |  |
| T-ET 21. DEG F     | 800   | 48.6                                      | 50.4   | 51.4   | 50.6   | 55.7   | 57.6   | 59.7   | 59.3   | 58.5   | 55.7   | 48.4   |    |    |      |      |      |      |  |
| (257. DEG F)       | 1000  | 49.7                                      | 50.3   | 52.5   | 57.3   | 58.8   | 60.2   | 61.5   | 61.1   | 59.8   | 57.0   | 48.1   |    |    |      |      |      |      |  |
| MACT 0.42 GM/M3    | 1250  | 55.0                                      | 56.6   | 58.8   | 62.9   | 65.5   | 67.8   | 68.3   | 67.4   | 65.4   | 61.9   | 51.4   |    |    |      |      |      |      |  |
| (1.00042 KG/M3)    | 1500  | 53.5                                      | 55.4   | 57.8   | 61.2   | 63.5   | 65.4   | 66.4   | 65.9   | 63.6   | 59.3   | 50.1   |    |    |      |      |      |      |  |
| MFA 6501. PPM      | 2000  | 50.0                                      | 52.9   | 54.4   | 59.1   | 61.8   | 63.7   | 64.8   | 62.9   | 61.9   | 55.3   | 46.4   |    |    |      |      |      |      |  |
| (721. RA/SEC)      | 2500  | 48.6                                      | 51.6   | 53.8   | 58.5   | 61.8   | 64.1   | 66.3   | 64.3   | 64.2   | 55.3   | 46.9   |    |    |      |      |      |      |  |
| NFK 7092. RPM      | 3000  | 47.2                                      | 50.8   | 53.0   | 58.6   | 61.8   | 64.9   | 64.5   | 63.2   | 62.0   | 54.9   | 45.7   |    |    |      |      |      |      |  |
| (743. RAD/SEC)     | 3500  | 47.1                                      | 51.2   | 53.2   | 57.8   | 62.3   | 64.5   | 66.9   | 66.0   | 63.3   | 56.2   | 45.5   |    |    |      |      |      |      |  |
| NFD 8823. RPP      | 4000  | 45.9                                      | 49.4   | 52.3   | 57.4   | 60.8   | 64.2   | 64.8   | 64.9   | 63.8   | 55.1   | 43.4   |    |    |      |      |      |      |  |
| (924. RAD/SEC)     | 4500  | 44.1                                      | 47.9   | 50.5   | 56.1   | 59.4   | 62.4   | 63.8   | 63.8   | 61.8   | 53.5   | 40.8   |    |    |      |      |      |      |  |
| NO. OF BLADES/SEC  | 5000  | 41.5                                      | 44.1   | 49.8   | 56.0   | 58.5   | 61.8   | 62.8   | 62.8   | 60.9   | 51.4   | 37.4   |    |    |      |      |      |      |  |
| FAN TIP SPEED      | 6000  | 39.7                                      | 42.3   | 46.6   | 53.1   | 55.8   | 57.8   | 59.6   | 59.6   | 56.8   | 46.7   | 31.0   |    |    |      |      |      |      |  |
| 602. FT/SEC        | 7000  | 35.5                                      | 34.8   | 38.6   | 44.8   | 48.8   | 51.2   | 53.5   | 52.8   | 49.2   | 37.0   | 19.9   |    |    |      |      |      |      |  |
|                    | 8000  | 27.9                                      | 29.0   | 33.6   | 40.5   | 44.3   | 46.9   | 48.2   | 48.1   | 43.9   | 29.9   | 7.2    |    |    |      |      |      |      |  |
|                    | 9000  | 13.5                                      | 19.5   | 24.8   | 32.1   | 35.5   | 38.1   | 38.8   | 38.3   | 32.0   | 16.1   |        |    |    |      |      |      |      |  |
|                    | 10000 | 7.5                                       | 14.2   | 22.1   | 25.1   | 27.9   | 27.8   | 24.7   | 17.0   |        |        |        |    |    |      |      |      |      |  |
|                    | 11000 |   |        | 2.1    | 5.5    | 7.9    | 7.5    | 2.5    |        |        |        |        |    |    |      |      |      |      |  |
|                    | 12000 |   |        |        |        |        |        |        |        |        |        |        |    |    |      |      |      |      |  |
|                    | 13000 |   |        |        |        |        |        |        |        |        |        |        |    |    |      |      |      |      |  |
|                    | 14000 |   |        |        |        |        |        |        |        |        |        |        |    |    |      |      |      |      |  |
|                    | 15000 |   |        |        |        |        |        |        |        |        |        |        |    |    |      |      |      |      |  |
| OVERALL CALCULATED |       | 62.8                                      | 65.6   | 67.2   | 70.8   | 72.7   | 75.0   | 76.1   | 75.4   | 73.6   | 69.2   | 63.8   |    |    |      |      |      |      |  |
| PNDP               |       | 74.5                                      | 77.0   | 79.1   | 83.0   | 85.4   | 87.9   | 89.2   | 88.2   | 87.1   | 81.2   | 72.8   |    |    |      |      |      |      |  |

540

HOTEL SOUND PRESSURE LF VFLS 150. DFC. P. 70 PERCENT R L. HJM. DAY1  
 ANGLE'S FROM TALET IN DEGREES (AND RADIANS)

|                           | 53      | 67      | 71      | 81      | 81      | 101     | 111     | 122     | 133     | 145     | 156     | 0     | 0 | 0 | 0 | 0 | 0 | PAL   |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|---|---|---|---|---|-------|
| FREQ.                     | (10.32) | (11.08) | (11.24) | (11.41) | (11.58) | (11.75) | (11.92) | (12.13) | (12.32) | (12.52) | (12.73) | 0     | 0 | 0 | 0 | 0 | 0 |       |
| RADIAL 17. FT.            | 50      |         |         |         |         |         |         |         |         |         |         |       |   |   |   |   |   |       |
| VEHICLE 17. FT.           | 63      |         |         |         |         |         |         |         |         |         |         |       |   |   |   |   |   |       |
| COMPIC 75-14              | 100     | 69.8    | 71.9    | 73.6    | 73.7    | 74.1    | 74.7    | 74.6    | 75.4    | 79.0    | 83.6    | 87.1  |   |   |   |   |   | 112.4 |
| LPC SCHEMECTARY           | 125     | 75.5    | 74.1    | 74.4    | 77.4    | 77.1    | 77.4    | 78.6    | 80.7    | 81.0    | 83.6    | 86.9  |   |   |   |   |   | 114.2 |
| DATE 1/17/75              | 160     | 74.6    | 74.6    | 75.7    | 76.4    | 76.1    | 74.1    | 79.1    | 80.4    | 82.2    | 85.3    | 87.9  |   |   |   |   |   | 114.5 |
| RUM 55/4                  | 200     | 71.3    | 73.9    | 74.6    | 76.4    | 77.1    | 79.2    | 79.9    | 81.9    | 83.5    | 84.1    | 84.4  |   |   |   |   |   | 115.3 |
| TAPE                      | 250     | 77.3    | 77.6    | 78.9    | 80.2    | 80.4    | 80.9    | 82.4    | 84.1    | 84.5    | 84.3    | 87.8  |   |   |   |   |   | 116.7 |
| BAR 30.2 MG               | 314     | 75.1    | 75.1    | 79.4    | 80.4    | 80.6    | 80.9    | 81.1    | 82.2    | 83.5    | 85.6    | 84.8  |   |   |   |   |   | 116.0 |
| TOI 140. N/Y21            | 400     | 77.7    | 77.6    | 77.2    | 77.7    | 78.9    | 79.2    | 81.1    | 81.4    | 82.5    | 84.9    | 85.9  |   |   |   |   |   | 115.0 |
| TAMP 30. DEG F            | 500     | 75.1    | 75.4    | 75.7    | 77.5    | 78.2    | 79.2    | 80.9    | 81.9    | 83.0    | 84.6    | 85.1  |   |   |   |   |   | 114.0 |
| (272. DEG N)              | 630     | 77.7    | 77.2    | 74.4    | 80.5    | 80.9    | 82.5    | 83.9    | 84.4    | 84.8    | 85.4    | 84.6  |   |   |   |   |   | 116.6 |
| TRET 21. DEG F            | 800     | 74.2    | 74.4    | 76.7    | 80.5    | 80.9    | 82.2    | 83.4    | 84.2    | 85.0    | 85.4    | 84.6  |   |   |   |   |   | 116.5 |
| (267. DEG N)              | 1000    | 75.7    | 77.2    | 77.2    | 79.7    | 81.2    | 83.2    | 85.1    | 85.9    | 86.0    | 85.6    | 83.4  |   |   |   |   |   | 117.2 |
| MACT 0.42 GM/M3           | 1250    | 77.2    | 77.4    | 78.7    | 81.3    | 84.0    | 85.7    | 84.6    | 84.9    | 87.0    | 86.4    | 83.4  |   |   |   |   |   | 116.6 |
| (20347 KG/M3)             | 1600    | 79.4    | 80.2    | 81.4    | 84.6    | 86.2    | 84.5    | 89.8    | 90.2    | 89.5    | 87.4    | 82.9  |   |   |   |   |   | 121.2 |
| NFA 7550. RPM             | 2000    | 74.4    | 85.7    | 87.6    | 90.6    | 92.2    | 94.5    | 95.4    | 97.1    | 96.7    | 93.9    | 89.4  |   |   |   |   |   | 127.6 |
| (802. RAD/SEC)            | 2500    | 78.9    | 80.2    | 82.4    | 86.1    | 89.2    | 90.2    | 90.4    | 90.4    | 90.5    | 84.6    | 83.3  |   |   |   |   |   | 122.3 |
| NPK 7281. RPM             | 3100    | 74.4    | 74.2    | 79.3    | 82.1    | 87.2    | 88.2    | 90.0    | 91.0    | 90.2    | 84.9    | 82.0  |   |   |   |   |   | 121.3 |
| (825. RAD/SEC)            | 4000    | 75.7    | 80.6    | 82.4    | 87.0    | 90.4    | 92.9    | 92.9    | 94.4    | 92.8    | 89.5    | 85.2  |   |   |   |   |   | 124.7 |
| NPC 823. RPM              | 5000    | 74.2    | 74.8    | 83.2    | 87.9    | 87.6    | 91.5    | 93.5    | 93.3    | 93.3    | 84.5    | 83.8  |   |   |   |   |   | 124.3 |
| (924. RAD/SEC)            | 6000    | 74.2    | 74.8    | 83.2    | 87.9    | 87.6    | 91.5    | 93.5    | 93.3    | 93.3    | 84.5    | 83.8  |   |   |   |   |   | 126.7 |
| NO. OF BLADES 15          | 8000    | 74.2    | 74.8    | 83.2    | 87.9    | 87.6    | 91.5    | 93.5    | 93.3    | 93.3    | 84.5    | 83.8  |   |   |   |   |   | 125.2 |
| FAN TIP SPEED 669. FT/SEC | 10000   | 74.3    | 79.0    | 82.3    | 87.4    | 90.4    | 92.7    | 95.0    | 96.5    | 96.4    | 90.8    | 85.1  |   |   |   |   |   | 126.7 |
|                           | 12500   | 75.4    | 74.2    | 80.9    | 87.1    | 90.1    | 92.6    | 93.9    | 96.2    | 95.9    | 89.7    | 84.4  |   |   |   |   |   | 126.4 |
|                           | 16000   | 72.5    | 74.6    | 77.4    | 82.5    | 86.2    | 88.5    | 91.2    | 93.4    | 92.7    | 87.0    | 82.3  |   |   |   |   |   | 123.6 |
|                           | 20000   | 72.4    | 74.5    | 74.0    | 83.2    | 86.4    | 89.0    | 92.0    | 94.6    | 94.2    | 88.7    | 83.0  |   |   |   |   |   | 125.1 |
|                           | 25000   | 71.5    | 73.3    | 76.9    | 81.7    | 84.7    | 84.1    | 91.1    | 93.5    | 93.3    | 88.0    | 82.3  |   |   |   |   |   | 124.7 |
|                           | 31500   | 69.3    | 71.8    | 74.3    | 81.3    | 84.5    | 87.0    | 89.4    | 92.2    | 91.2    | 86.1    | 78.9  |   |   |   |   |   | 124.1 |
|                           | 40000   | 66.2    | 68.4    | 71.9    | 74.4    | 79.5    | 82.3    | 86.0    | 86.9    | 87.2    | 81.9    | 72.4  |   |   |   |   |   | 121.6 |
|                           | 50000   | 63.9    | 64.6    | 67.9    | 71.5    | 74.2    | 77.7    | 81.5    | 81.5    | 81.7    | 74.1    | 66.7  |   |   |   |   |   | 117.9 |
|                           | 63000   | 63.2    | 62.0    | 64.4    | 65.0    | 67.6    | 70.4    | 73.0    | 72.8    | 73.6    | 70.2    | 61.8  |   |   |   |   |   | 112.7 |
|                           | 80000   | 66.3    | 65.7    | 64.9    | 63.5    | 63.2    | 64.4    | 65.8    | 65.3    | 65.1    | 64.4    | 61.3  |   |   |   |   |   | 111.6 |
| OVERALL MEASURED          |         |         |         |         |         |         |         |         |         |         |         |       |   |   |   |   |   |       |
| OVERALL CALCULATED        |         | 91.5    | 92.7    | 94.5    | 98.4    | 100.8   | 103.1   | 105.0   | 106.1   | 105.9   | 102.1   | 99.5  |   |   |   |   |   | 137.1 |
| PNSB                      |         | 104.3   | 105.6   | 107.3   | 110.6   | 113.6   | 115.8   | 116.7   | 117.8   | 118.8   | 114.1   | 110.8 |   |   |   |   |   |       |

ANGLES FROM INLET IN DEGREES (AND RADIANS

|                    |       | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0. | 0. | 0. | 0. | 0. |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----|----|----|----|
|                    | FREQ. | (0.92) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0. | 0. | 0. | 0. | 0. |
|                    | 50    |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
|                    | 63    |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
|                    | 80    |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
| SIDELINE 200. FT.  |       |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
| ( 60.96 M)         | 100   | 45.1   | 49.2   | 51.6   | 52.3   | 52.6   | 52.9   | 52.4   | 52.3   | 54.6   | 57.0   | 57.1   |    |    |    |    |    |
| VEHICLE R-55       | 124   | 51.8   | 55.3   | 56.2   | 57.7   | 58.5   | 58.6   | 58.3   | 57.5   | 58.5   | 57.2   | 56.6   |    |    |    |    |    |
| CONFIG 75-1H       | 160   | 50.7   | 51.7   | 53.4   | 54.4   | 54.4   | 54.5   | 56.0   | 57.2   | 57.6   | 58.5   | 57.4   |    |    |    |    |    |
| LPC SCHEMECTADY    | 200   | 50.3   | 50.9   | 52.3   | 54.5   | 55.3   | 57.2   | 57.4   | 58.6   | 58.7   | 59.1   | 57.7   |    |    |    |    |    |
| DATE 1/17/75       | 250   | 53.2   | 54.6   | 56.5   | 58.2   | 58.5   | 58.9   | 59.4   | 60.7   | 59.6   | 59.2   | 57.0   |    |    |    |    |    |
| RUN 55/4           | 315   | 54.9   | 56.3   | 58.9   | 58.3   | 58.7   | 58.8   | 58.5   | 58.6   | 58.5   | 58.3   | 55.5   |    |    |    |    |    |
| TAFE               | 450   | 53.1   | 54.4   | 54.6   | 56.5   | 56.8   | 57.0   | 58.4   | 57.8   | 57.4   | 57.4   | 54.5   |    |    |    |    |    |
| BAR 30.2 HG        | 570   | 50.7   | 52.0   | 51.9   | 52.2   | 56.0   | 56.9   | 58.1   | 58.2   | 57.8   | 57.0   | 53.6   |    |    |    |    |    |
| (01890. N/M2)      | 630   | 53.1   | 53.7   | 55.5   | 58.1   | 58.7   | 60.1   | 61.0   | 60.6   | 58.4   | 57.6   | 52.8   |    |    |    |    |    |
| TAMB 30. DEG F     | 870   | 53.5   | 54.8   | 55.8   | 58.0   | 58.6   | 59.7   | 60.3   | 60.2   | 59.5   | 57.4   | 52.5   |    |    |    |    |    |
| ( 27.2. DEG K)     | 1000  | 51.8   | 53.4   | 54.1   | 57.1   | 58.7   | 60.6   | 61.9   | 61.8   | 60.3   | 57.4   | 50.9   |    |    |    |    |    |
| TACT 21. DEG F     | 1250  | 52.2   | 53.5   | 55.5   | 58.5   | 61.4   | 63.0   | 63.3   | 62.6   | 61.1   | 58.0   | 50.6   |    |    |    |    |    |
| ( 257. DEG K)      | 1600  | 54.2   | 56.1   | 58.0   | 61.6   | 63.5   | 65.0   | 66.3   | 65.7   | 63.4   | 58.7   | 49.6   |    |    |    |    |    |
| HACT 0.42 GM/M3    | 2000  | 52.0   | 61.4   | 64.1   | 67.5   | 69.3   | 71.4   | 72.1   | 72.4   | 70.4   | 64.8   | 55.6   |    |    |    |    |    |
| ( 0.0042 KG/M3)    | 2500  | 53.7   | 55.7   | 58.6   | 62.8   | 65.9   | 66.9   | 66.9   | 65.0   | 63.9   | 57.3   | 49.1   |    |    |    |    |    |
| NFA 765. RPM       | 3150  | 53.3   | 53.3   | 55.8   | 60.5   | 63.8   | 64.6   | 65.8   | 65.6   | 63.2   | 55.0   | 47.1   |    |    |    |    |    |
| ( 612. PA/SEC)     | 4000  | 51.7   | 55.3   | 58.0   | 63.1   | 66.6   | 68.9   | 68.2   | 68.7   | 65.2   | 58.9   | 49.2   |    |    |    |    |    |
| NFK 788. RPM       | 5000  | 49.8   | 53.2   | 56.2   | 61.5   | 65.5   | 67.3   | 68.6   | 67.3   | 65.3   | 57.4   | 47.2   |    |    |    |    |    |
| ( 625. RAD/SEC)    | 6300  | 50.4   | 54.4   | 57.8   | 63.9   | 65.9   | 68.0   | 71.1   | 68.9   | 67.0   | 58.1   | 46.4   |    |    |    |    |    |
| NFD 823. RPM       | 8000  | 47.6   | 50.9   | 54.6   | 60.1   | 62.9   | 65.7   | 67.1   | 66.5   | 64.5   | 55.7   | 43.3   |    |    |    |    |    |
| ( 824. RAD/SEC)    | 10000 | 43.2   | 49.6   | 54.1   | 60.3   | 63.0   | 65.1   | 66.6   | 66.6   | 63.9   | 53.9   | 39.6   |    |    |    |    |    |
| NO. OF BLADES 15   | 12500 | 41.9   | 46.3   | 50.4   | 57.4   | 60.5   | 62.8   | 63.1   | 63.6   | 60.3   | 48.9   | 33.5   |    |    |    |    |    |
| FAN TIP SPEED      | 16000 | 34.0   | 37.8   | 43.1   | 49.0   | 53.1   | 55.0   | 56.5   | 56.5   | 52.0   | 39.7   | 22.0   |    |    |    |    |    |
| 669. FT/SEC        | 20000 | 29.2   | 33.0   | 38.6   | 45.0   | 48.5   | 50.7   | 52.2   | 52.1   | 46.9   | 32.9   | 19.2   |    |    |    |    |    |
|                    | 25000 | 18.2   | 24.0   | 30.3   | 36.6   | 40.0   | 42.8   | 44.0   | 42.8   | 36.5   | 20.1   |        |    |    |    |    |    |
|                    | 31500 | 3.2    | 11.2   | 19.2   | 26.1   | 29.9   | 31.6   | 31.6   | 29.7   | 20.5   | 0.5    |        |    |    |    |    |    |
|                    | 40000 |        |        |        | 4.3    | 10.2   | 11.9   | 12.2   | 6.7    |        |        |        |    |    |    |    |    |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
| OVERALL CALCULATED |       | 65.8   | 68.0   | 70.2   | 73.9   | 76.2   | 78.0   | 79.0   | 78.6   | 76.5   | 71.7   | 66.9   |    |    |    |    |    |
| PNDP               |       | 78.5   | 80.9   | 83.4   | 87.1   | 89.3   | 91.2   | 91.9   | 91.7   | 89.8   | 84.5   | 76.6   |    |    |    |    |    |



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PAGE 1 FULL SCALE DATA PREDICTION PROGRAM MODEL SOURCE PRESSURE LEVELS (50. DFG. F. 70 PERCENT R L. MM. DAY) PROC. DATE - MONTH 3 MAY 25 HR. 13.3  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    |       | 51     | 52     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 155    | 0   | 0   | 0    | 0    | 0    | 0    | PHL   |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|------|------|------|------|-------|
|                    |       | (0.82) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0) | (0) | (10) | (10) | (10) | (10) | (10)  |
| RADIAL 17. FT.     | 120   | 64.5   | 71.9   | 73.1   | 73.7   | 73.0   | 74.4   | 74.6   | 75.4   | 79.0   | 83.9   | 87.6   |     |     |      |      |      |      | 112.0 |
| VEHICLE (S. M)     | 125   | 75.5   | 74.4   | 77.6   | 77.4   | 77.1   | 76.7   | 74.4   | 80.4   | 81.2   | 83.8   | 86.9   |     |     |      |      |      |      | 114.2 |
| CONFIG 75-14       | 160   | 74.6   | 74.9   | 75.2   | 75.9   | 75.9   | 76.4   | 74.4   | 80.7   | 83.0   | 85.3   | 87.6   |     |     |      |      |      |      | 114.0 |
| LFC SCHEDULE       | 200   | 74.0   | 71.9   | 74.4   | 75.4   | 77.4   | 77.4   | 80.1   | 81.7   | 83.7   | 84.1   | 84.4   |     |     |      |      |      |      | 115.3 |
| DATE 1/17/75       | 250   | 77.5   | 78.4   | 79.1   | 80.4   | 80.4   | 81.1   | 82.9   | 83.9   | 84.5   | 86.8   | 87.8   |     |     |      |      |      |      | 116.0 |
| RUN: 95/5          | 315   | 74.4   | 79.4   | 79.4   | 80.4   | 80.9   | 81.2   | 81.6   | 82.2   | 83.2   | 85.6   | 87.1   |     |     |      |      |      |      | 116.2 |
| TAPE               | 400   | 77.1   | 77.4   | 77.2   | 78.2   | 79.1   | 79.4   | 80.6   | 81.9   | 82.7   | 85.1   | 86.1   |     |     |      |      |      |      | 115.1 |
| BAR 30.2 MG        | 570   | 74.6   | 75.4   | 75.7   | 77.5   | 77.9   | 79.5   | 80.0   | 82.2   | 82.7   | 84.4   | 84.6   |     |     |      |      |      |      | 114.5 |
| (01870. N/H2)      | 630   | 77.9   | 77.4   | 78.7   | 80.2   | 81.7   | 82.2   | 83.6   | 84.2   | 84.4   | 84.9   | 84.4   |     |     |      |      |      |      | 116.5 |
| TAHB 30. DEG F     | 800   | 75.4   | 74.2   | 75.9   | 80.2   | 80.5   | 82.0   | 83.4   | 84.7   | 85.2   | 85.5   | 83.9   |     |     |      |      |      |      | 116.6 |
| (272. DEG K)       | 1000  | 76.7   | 77.2   | 77.4   | 79.7   | 80.9   | 83.0   | 85.1   | 85.9   | 86.2   | 85.6   | 83.4   |     |     |      |      |      |      | 117.2 |
| T. ET 21. DEG F    | 1250  | 77.7   | 77.4   | 74.7   | 81.3   | 83.5   | 85.2   | 86.9   | 87.2   | 87.5   | 85.9   | 83.6   |     |     |      |      |      |      | 116.6 |
| (207. DEG K)       | 1600  | 79.7   | 80.2   | 81.6   | 84.5   | 86.5   | 88.5   | 90.1   | 90.2   | 90.0   | 87.2   | 83.1   |     |     |      |      |      |      | 121.3 |
| HACT 0.42 GM/M3    | 2000  | 85.2   | 85.5   | 87.6   | 90.4   | 92.5   | 95.9   | 96.3   | 97.4   | 97.0   | 93.6   | 89.6   |     |     |      |      |      |      | 127.9 |
| (00342 KG/M3)      | 2500  | 79.6   | 80.4   | 82.6   | 84.1   | 85.7   | 86.2   | 91.0   | 91.1   | 91.2   | 86.6   | 83.3   |     |     |      |      |      |      | 121.5 |
| NFA 7653. RPM      | 3150  | 76.4   | 75.4   | 79.8   | 84.3   | 84.7   | 85.7   | 90.2   | 91.3   | 90.4   | 85.4   | 82.3   |     |     |      |      |      |      | 121.6 |
| ( 831. RAD/SEC)    | 4000  | 74.8   | 80.6   | 82.7   | 87.3   | 90.6   | 92.9   | 93.1   | 94.7   | 93.1   | 89.3   | 84.9   |     |     |      |      |      |      | 124.9 |
| NFK 7876. RPM      | 5000  | 77.2   | 78.8   | 80.9   | 84.2   | 87.3   | 91.3   | 93.5   | 93.8   | 93.3   | 89.0   | 84.1   |     |     |      |      |      |      | 124.4 |
| ( 825. RAD/SEC)    | 6300  | 74.7   | 80.8   | 83.2   | 86.4   | 91.6   | 93.2   | 96.7   | 95.6   | 95.9   | 90.3   | 85.4   |     |     |      |      |      |      | 126.7 |
| NFD 8823. RPM      | 8000  | 75.7   | 79.8   | 81.1   | 84.1   | 89.7   | 91.5   | 94.1   | 94.9   | 94.9   | 89.7   | 84.8   |     |     |      |      |      |      | 125.3 |
| ( 924. RAD/SEC)    | 10000 | 77.1   | 74.7   | 81.5   | 87.3   | 90.6   | 92.7   | 95.5   | 96.5   | 96.2   | 90.8   | 85.6   |     |     |      |      |      |      | 126.8 |
| NO. OF BLADES 15   | 12500 | 76.3   | 77.9   | 80.6   | 84.9   | 90.1   | 92.4   | 94.4   | 96.2   | 95.4   | 90.0   | 84.7   |     |     |      |      |      |      | 126.4 |
| FAN TIP SPEED      | 18000 | 72.7   | 74.6   | 77.7   | 82.5   | 86.2   | 88.7   | 91.7   | 94.2   | 92.7   | 87.0   | 82.3   |     |     |      |      |      |      | 123.9 |
| 668. FT/SEC        | 20000 | 72.8   | 74.7   | 74.0   | 83.0   | 86.1   | 89.5   | 92.2   | 94.6   | 94.2   | 88.7   | 83.0   |     |     |      |      |      |      | 125.2 |
|                    | 25000 | 71.3   | 73.3   | 76.4   | 82.0   | 84.4   | 87.8   | 91.1   | 93.7   | 93.3   | 87.7   | 82.0   |     |     |      |      |      |      | 124.7 |
|                    | 31500 | 49.8   | 72.1   | 75.8   | 81.4   | 84.0   | 87.5   | 89.6   | 92.0   | 91.0   | 85.9   | 79.2   |     |     |      |      |      |      | 124.1 |
|                    | 40000 | 66.2   | 66.1   | 71.9   | 77.2   | 79.5   | 82.3   | 86.0   | 86.9   | 86.9   | 81.9   | 72.9   |     |     |      |      |      |      | 121.0 |
|                    | 50000 | 63.9   | 63.6   | 67.6   | 71.6   | 74.2   | 77.7   | 81.5   | 81.5   | 81.7   | 77.8   | 67.2   |     |     |      |      |      |      | 117.9 |
|                    | 63000 | 63.2   | 61.5   | 63.9   | 65.2   | 67.3   | 70.6   | 73.7   | 73.3   | 73.6   | 70.4   | 62.1   |     |     |      |      |      |      | 113.0 |
|                    | 80000 | 66.3   | 62.5   | 64.9   | 63.9   | 63.2   | 64.6   | 65.6   | 65.5   | 65.9   | 64.1   | 61.3   |     |     |      |      |      |      | 111.4 |
| OVERALL MEASURED   |       |        |        |        |        |        |        |        |        |        |        |        |     |     |      |      |      |      |       |
| OVERALL CALCULATED |       | 91.8   | 92.7   | 94.5   | 96.4   | 100.9  | 103.1  | 105.3  | 106.3  | 105.9  | 102.0  | 99.6   |     |     |      |      |      |      | 137.2 |
| PWR                |       | 104.8  | 105.5  | 107.3  | 110.6  | 113.1  | 115.1  | 116.8  | 117.2  | 116.6  | 114.8  | 111.6  |     |     |      |      |      |      |       |

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 OF POOR QUALITY

|                    | 53     | 62     | 71      | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0    | 0 | 0 | 0 | 0 |
|--------------------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|------|---|---|---|---|
| FREQ               | (7.92) | (10.5) | (12.24) | (14.1) | (15.5) | (17.6) | (19.4) | (21.3) | (23.2) | (25.2) | (27.3) | 0    | 0 | 0 | 0 | 0 |
| SIDELINE 200. FT.  | 100    | 44.7   | 49.2    | 41.1   | 52.0   | 52.3   | 52.7   | 52.4   | 52.3   | 54.6   | 57.3   | 57.6 |   |   |   |   |
| (60.96 M)          | 125    | 51.8   | 55.6    | 55.9   | 54.7   | 54.5   | 54.0   | 56.1   | 57.3   | 56.7   | 57.2   | 56.6 |   |   |   |   |
| VEHICLE P-55       | 150    | 50.7   | 52.0    | 52.9   | 54.1   | 54.2   | 54.5   | 57.0   | 57.4   | 58.3   | 58.5   | 57.2 |   |   |   |   |
| CONFIG 75-1H       | 200    | 53.1   | 53.9    | 52.1   | 53.5   | 55.6   | 47.4   | 57.7   | 58.3   | 58.5   | 59.1   | 57.7 |   |   |   |   |
| LDC SCHENECTADY    | 250    | 51.5   | 55.3    | 56.7   | 54.3   | 58.5   | 49.1   | 60.3   | 60.5   | 59.8   | 59.7   | 57.0 |   |   |   |   |
| DATE 1/17/75       | 314    | 54.4   | 56.2    | 56.7   | 54.3   | 58.2   | 49.0   | 59.0   | 58.4   | 58.3   | 58.3   | 56.0 |   |   |   |   |
| RUN 55/5           | 400    | 52.8   | 54.1    | 54.6   | 56.0   | 57.1   | 57.2   | 57.9   | 58.3   | 57.6   | 57.7   | 54.8 |   |   |   |   |
| TAPE               | 500    | 50.7   | 52.0    | 53.0   | 54.2   | 55.8   | 57.1   | 58.1   | 58.4   | 57.5   | 58.8   | 53.1 |   |   |   |   |
| BAR 30.2 HG        | 630    | 51.4   | 57.9    | 55.9   | 57.9   | 57.4   | 59.8   | 60.7   | 60.3   | 59.4   | 57.1   | 52.5 |   |   |   |   |
| (01690. V/M2)      | 800    | 53.7   | 54.5    | 56.0   | 57.7   | 58.6   | 59.4   | 60.6   | 60.7   | 59.7   | 57.6   | 51.7 |   |   |   |   |
| TAMB 30. DEG F     | 1000   | 51.8   | 53.4    | 54.4   | 57.1   | 58.4   | 60.3   | 61.9   | 61.8   | 60.5   | 57.4   | 50.9 |   |   |   |   |
| (272. DEG K)       | 1250   | 52.7   | 53.5    | 55.5   | 58.5   | 60.9   | 62.5   | 63.5   | 62.9   | 61.6   | 57.5   | 50.8 |   |   |   |   |
| T-ET 21. DEG F     | 1500   | 54.5   | 56.1    | 58.3   | 61.6   | 63.7   | 65.9   | 66.6   | 65.7   | 63.9   | 58.4   | 49.9 |   |   |   |   |
| (267. DEG K)       | 2000   | 59.7   | 61.1    | 64.1   | 67.5   | 69.5   | 71.9   | 72.6   | 72.7   | 70.6   | 64.6   | 55.9 |   |   |   |   |
| HACT 0.42 GM/M3    | 2500   | 54.0   | 55.9    | 54.9   | 62.8   | 65.6   | 68.9   | 67.2   | 66.2   | 64.6   | 57.3   | 49.1 |   |   |   |   |
| (0.0042 KG/M3)     | 3150   | 57.3   | 53.6    | 55.8   | 60.8   | 63.3   | 65.1   | 66.0   | 66.0   | 63.4   | 55.5   | 47.4 |   |   |   |   |
| NFA 7453. RPM      | 4000   | 57.2   | 55.3    | 58.2   | 63.3   | 66.5   | 68.9   | 68.5   | 68.9   | 65.5   | 58.7   | 49.9 |   |   |   |   |
| ( 801. RAD/SEC)    | 5000   | 59.3   | 53.2    | 56.2   | 62.0   | 65.3   | 67.0   | 68.4   | 67.8   | 65.3   | 57.9   | 47.5 |   |   |   |   |
| NFK 7876. RPM      | 6300   | 59.9   | 54.4    | 57.8   | 63.9   | 64.9   | 68.2   | 71.1   | 68.7   | 67.0   | 58.1   | 46.9 |   |   |   |   |
| ( 825. RAD/SEC)    | 8000   | 47.5   | 51.2    | 54.5   | 60.1   | 62.9   | 65.4   | 67.3   | 66.8   | 64.8   | 55.8   | 43.6 |   |   |   |   |
| NFD 8623. RPM      | 10000  | 46.0   | 49.4    | 53.0   | 59.6   | 63.3   | 65.1   | 67.1   | 66.6   | 63.6   | 53.9   | 40.4 |   |   |   |   |
| ( 924. RAD/SEC)    | 12500  | 42.4   | 46.1    | 50.1   | 57.1   | 60.5   | 62.5   | 63.6   | 63.6   | 59.8   | 49.2   | 33.7 |   |   |   |   |
| NO. OF BLADES 15   | 15000  | 34.2   | 38.6    | 43.3   | 49.8   | 53.1   | 55.2   | 57.0   | 57.3   | 52.0   | 39.7   | 23.0 |   |   |   |   |
| FAN TIP SPEED      | 20000  | 28.2   | 33.3    | 38.6   | 44.7   | 48.3   | 51.2   | 52.4   | 52.1   | 46.9   | 32.9   | 19.2 |   |   |   |   |
| 660. FT/SEC        | 25000  | 18.0   | 24.0    | 29.8   | 36.9   | 39.8   | 42.6   | 44.0   | 43.1   | 38.5   | 19.9   |      |   |   |   |   |
|                    | 31500  | 3.7    | 11.5    | 18.7   | 26.6   | 29.4   | 32.1   | 31.8   | 29.5   | 20.2   | 0.3    |      |   |   |   |   |
|                    | 40000  |        |         |        | 7.1    | 10.2   | 11.9   | 12.2   | 6.7    |        |        |      |   |   |   |   |
|                    | 50000  |        |         |        |        |        |        |        |        |        |        |      |   |   |   |   |
|                    | 63000  |        |         |        |        |        |        |        |        |        |        |      |   |   |   |   |
|                    | 80000  |        |         |        |        |        |        |        |        |        |        |      |   |   |   |   |
| OVERALL CALCULATED |        | 66.1   | 68.0    | 70.2   | 73.9   | 76.2   | 78.1   | 79.2   | 78.7   | 76.7   | 71.7   | 66.9 |   |   |   |   |
| PNDR               |        | 78.9   | 80.9    | 83.4   | 87.1   | 89.4   | 91.2   | 92.2   | 91.9   | 90.0   | 84.4   | 78.8 |   |   |   |   |

0544

MODEL SUC-1 PRESSURE LEVELS (59. DEG. F. @ 70 PERCENT @ L. HUM. 84%)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | FREQ. | 57°    | 62°    | 71°    | 81°    | 91°    | 101°   | 111°   | 122°   | 133°   | 145°   | 156°   | 0°     | 0°     | 0°     | 0°     | 0°     | 0°     | PHL |
|---------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
|                     |       | (3.02) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) |     |
| RADIAL 17. FT.      | 50    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
|                     | 63    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
|                     | 80    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| VEHICLE (5. M) R-55 | 100   | 71.7   | 73.2   | 76.0   | 78.5   | 79.3   | 79.6   | 72.8   | 69.3   | 72.0   | 74.3   | 76.7   |        |        |        |        |        |        |     |
| CONFIG 75-M         | 125   | 67.2   | 69.4   | 72.2   | 69.5   | 71.5   | 67.6   | 67.5   | 72.0   | 72.0   | 73.5   | 75.2   |        |        |        |        |        |        |     |
| LDC SCHENECTADY     | 200   | 65.5   | 65.2   | 65.7   | 64.7   | 66.6   | 66.9   | 69.3   | 70.0   | 72.0   | 73.0   | 76.4   |        |        |        |        |        |        |     |
| DATE 1/17/75        | 250   | 66.7   | 65.9   | 64.6   | 69.5   | 70.0   | 70.4   | 71.5   | 72.2   | 72.9   | 73.5   | 75.4   |        |        |        |        |        |        |     |
| RPM 5516            | 315   | 69.7   | 71.9   | 70.7   | 71.7   | 71.3   | 72.2   | 71.8   | 72.3   | 73.2   | 73.8   | 75.2   |        |        |        |        |        |        |     |
| TAPE                | 400   | 67.0   | 64.9   | 68.7   | 69.7   | 69.8   | 70.7   | 71.3   | 72.0   | 73.0   | 73.5   | 74.4   |        |        |        |        |        |        |     |
| BAR 30.2 HG         | 500   | 66.0   | 68.2   | 67.4   | 68.5   | 69.6   | 70.4   | 71.4   | 73.3   | 74.2   | 74.0   | 74.4   |        |        |        |        |        |        |     |
| (C1890. N/12)       | 630   | 71.3   | 71.2   | 71.7   | 72.8   | 73.6   | 74.5   | 76.3   | 76.8   | 77.0   | 76.6   | 74.4   |        |        |        |        |        |        |     |
| TAMB 30 DEG F       | 800   | 70.3   | 71.5   | 70.4   | 72.5   | 72.8   | 74.5   | 75.3   | 76.8   | 77.5   | 77.5   | 74.7   |        |        |        |        |        |        |     |
| (272. DEG K)        | 1000  | 68.6   | 70.7   | 69.4   | 72.0   | 73.4   | 74.0   | 74.3   | 79.5   | 80.5   | 80.5   | 75.2   |        |        |        |        |        |        |     |
| T-ET 21. DEG F      | 1250  | 75.4   | 76.0   | 75.0   | 81.1   | 81.9   | 84.5   | 86.3   | 86.3   | 87.0   | 87.3   | 80.7   |        |        |        |        |        |        |     |
| (267. DEG K)        | 1400  | 72.9   | 74.2   | 74.7   | 77.1   | 79.7   | 81.5   | 83.5   | 84.0   | 83.7   | 83.1   | 76.0   |        |        |        |        |        |        |     |
| HACT 0.42 GM/MS     | 2000  | 73.1   | 74.3   | 75.1   | 77.9   | 77.4   | 81.7   | 83.0   | 83.0   | 83.0   | 82.3   | 78.4   |        |        |        |        |        |        |     |
| (60042 KG/MS)       | 2500  | 71.6   | 75.0   | 75.1   | 78.6   | 81.4   | 84.7   | 85.4   | 84.9   | 87.5   | 84.3   | 80.4   |        |        |        |        |        |        |     |
| MFA 3365 RPM        | 3150  | 67.3   | 73.2   | 70.8   | 74.4   | 77.6   | 80.7   | 82.1   | 83.4   | 83.9   | 80.0   | 75.6   |        |        |        |        |        |        |     |
| (592. RAD/SEC)      | 4000  | 69.4   | 74.4   | 71.7   | 76.6   | 79.6   | 82.6   | 83.3   | 84.0   | 85.1   | 83.4   | 77.5   |        |        |        |        |        |        |     |
| NFK 5522 RPM        | 5000  | 67.1   | 74.6   | 70.4   | 74.8   | 78.8   | 81.5   | 84.4   | 85.2   | 85.2   | 82.6   | 76.4   |        |        |        |        |        |        |     |
| (578. RAD/SEC)      | 6300  | 67.1   | 76.3   | 71.0   | 74.3   | 78.1   | 81.4   | 83.4   | 84.9   | 85.9   | 83.3   | 77.2   |        |        |        |        |        |        |     |
| NFD 8823 RPM        | 8000  | 64.9   | 76.1   | 69.7   | 73.4   | 76.6   | 80.5   | 82.8   | 84.3   | 85.2   | 82.6   | 76.1   |        |        |        |        |        |        |     |
| (924. RAD/SEC)      | 10000 | 65.7   | 76.5   | 69.5   | 74.3   | 77.5   | 81.7   | 83.2   | 85.4   | 86.9   | 83.2   | 76.9   |        |        |        |        |        |        |     |
| NO. OF BLADES 15    | 12500 | 65.0   | 77.7   | 67.7   | 72.7   | 76.7   | 79.6   | 82.3   | 84.3   | 85.4   | 81.7   | 75.7   |        |        |        |        |        |        |     |
| FAN TIP SPEED       | 16000 | 62.4   | 79.1   | 64.7   | 70.3   | 73.4   | 77.0   | 79.6   | 82.2   | 83.6   | 79.2   | 73.6   |        |        |        |        |        |        |     |
| 468. FT/SEC         | 20000 | 61.5   | 77.0   | 64.5   | 70.3   | 74.1   | 76.7   | 79.9   | 82.0   | 83.9   | 79.9   | 73.0   |        |        |        |        |        |        |     |
|                     | 25000 | 59.7   | 77.1   | 62.4   | 67.8   | 71.1   | 74.1   | 76.5   | 79.3   | 80.5   | 76.4   | 70.3   |        |        |        |        |        |        |     |
|                     | 31500 | 58.6   | 74.6   | 61.6   | 64.3   | 71.4   | 74.2   | 76.5   | 78.3   | 79.7   | 75.6   | 68.2   |        |        |        |        |        |        |     |
|                     | 40000 | 55.4   | 73.7   | 58.6   | 63.5   | 66.2   | 69.5   | 72.1   | 73.5   | 75.4   | 71.9   | 62.0   |        |        |        |        |        |        |     |
|                     | 50000 | 55.5   | 73.1   | 57.2   | 58.8   | 61.4   | 64.9   | 67.7   | 67.8   | 69.2   | 67.0   | 57.3   |        |        |        |        |        |        |     |
|                     | 63000 | 55.9   | 66.1   | 56.2   | 55.3   | 56.5   | 58.6   | 60.4   | 60.9   | 61.3   | 59.9   | 53.9   |        |        |        |        |        |        |     |
|                     | 80000 | 57.7   | 60.5   | 55.7   | 55.3   | 54.6   | 54.6   | 55.5   | 55.1   | 55.1   | 54.8   | 52.8   |        |        |        |        |        |        |     |
| OVERALL MEASURED    |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| OVERALL CALCULATED  |       | 83.1   | 88.8   | 85.5   | 88.5   | 90.7   | 93.4   | 95.0   | 96.2   | 97.0   | 95.0   | 90.4   |        |        |        |        |        |        |     |
| PHDR                |       | 94.8   | 98.9   | 97.7   | 100.9  | 103.3  | 106.1  | 107.3  | 108.4  | 109.0  | 107.0  | 102.9  |        |        |        |        |        |        |     |

MODEL SOUND PRESSURE LEVELS (59. DEC. F. 70 PERCENT B L. NUM. EAY)  
 ANGLE FROM INLET IN DEGREES (AND RADIANS)

|                    | FREQ. | 51.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0. | 0. | 0. | 0. | 0. | 0. |  |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----|----|----|----|----|--|
|                    |       | (1.02) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0. | 0. | 0. | 0. | 0. | 0. |  |
| SIDELINE 200. FT.  | 20    |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |  |
| ( 60.96 F )        | 100   | 48.1   | 41.2   | 54.8   | 56.4   | 54.7   | 54.9   | 50.6   | 44.2   | 47.5   | 47.7   | 46.6   |    |    |    |    |    |    |  |
| VEHICLE R-54       | 124   | 47.5   | 44.6   | 50.0   | 47.7   | 47.9   | 45.4   | 45.2   | 44.9   | 47.4   | 45.3   | 44.9   |    |    |    |    |    |    |  |
| CONFIG 75-1H       | 160   | 41.6   | 42.3   | 43.4   | 44.9   | 45.1   | 45.0   | 46.9   | 46.8   | 47.3   | 46.7   | 45.2   |    |    |    |    |    |    |  |
| LCC SCHEMECTADY    | 200   | 40.3   | 42.0   | 42.8   | 44.0   | 45.5   | 47.2   | 47.6   | 48.7   | 48.2   | 47.6   | 45.7   |    |    |    |    |    |    |  |
| DATE 1/17/75       | 250   | 42.7   | 45.2   | 46.3   | 47.5   | 48.2   | 48.3   | 49.0   | 48.8   | 48.1   | 46.4   | 44.5   |    |    |    |    |    |    |  |
| RUP 55/A           | 315   | 45.6   | 47.8   | 48.2   | 49.6   | 49.3   | 50.0   | 47.2   | 48.7   | 48.2   | 46.5   | 44.1   |    |    |    |    |    |    |  |
| TAPE               | 400   | 43.0   | 45.7   | 45.1   | 47.6   | 47.8   | 48.5   | 48.6   | 48.4   | 47.9   | 46.1   | 43.1   |    |    |    |    |    |    |  |
| BAR 30.2 HG        | 500   | 41.7   | 44.8   | 44.7   | 46.2   | 47.4   | 48.1   | 49.0   | 49.5   | 49.0   | 46.5   | 42.9   |    |    |    |    |    |    |  |
| (01890. 4/112)     | 630   | 45.8   | 47.7   | 48.9   | 50.4   | 51.4   | 52.1   | 53.4   | 52.9   | 51.6   | 48.8   | 42.6   |    |    |    |    |    |    |  |
| TAPB 30. DEC F     | 800   | 45.7   | 47.8   | 47.5   | 50.0   | 50.5   | 51.9   | 52.2   | 52.8   | 51.9   | 49.9   | 42.5   |    |    |    |    |    |    |  |
| (272. DEC K)       | 1000  | 43.8   | 46.9   | 45.4   | 49.4   | 51.4   | 53.3   | 55.1   | 55.4   | 54.8   | 52.4   | 42.7   |    |    |    |    |    |    |  |
| T-ET 21. DEC F     | 1250  | 55.4   | 52.1   | 52.7   | 57.3   | 59.3   | 61.7   | 62.9   | 62.0   | 61.1   | 58.9   | 47.9   |    |    |    |    |    |    |  |
| (267. DEC K)       | 1600  | 47.6   | 50.1   | 51.3   | 54.2   | 56.9   | 58.5   | 60.0   | 59.5   | 57.6   | 54.4   | 43.7   |    |    |    |    |    |    |  |
| HACT 0.42 CM/M3    | 2020  | 46.7   | 49.2   | 51.6   | 54.8   | 56.5   | 58.6   | 59.3   | 58.3   | 56.4   | 53.3   | 44.7   |    |    |    |    |    |    |  |
| (.30042 KG/M3)     | 2500  | 45.9   | 51.5   | 51.4   | 54.4   | 54.3   | 61.4   | 61.6   | 62.0   | 60.8   | 55.0   | 46.2   |    |    |    |    |    |    |  |
| NFA 5365. RPM      | 3150  | 41.3   | 48.4   | 46.8   | 50.8   | 54.2   | 57.1   | 58.0   | 58.1   | 56.0   | 50.2   | 40.7   |    |    |    |    |    |    |  |
| ( 562. RAD/SEC )   | 4000  | 42.9   | 49.1   | 47.2   | 52.4   | 55.8   | 58.6   | 58.8   | 58.3   | 57.5   | 52.9   | 41.5   |    |    |    |    |    |    |  |
| NFK 5522. RPM      | 5000  | 40.3   | 49.6   | 45.9   | 50.5   | 54.7   | 57.3   | 59.6   | 59.1   | 57.3   | 51.6   | 39.8   |    |    |    |    |    |    |  |
| ( 578. RAD/SEC )   | 6330  | 39.3   | 49.9   | 45.5   | 49.4   | 53.3   | 56.5   | 58.0   | 58.0   | 57.0   | 51.0   | 38.7   |    |    |    |    |    |    |  |
| NFD 8223. RPM      | 8000  | 36.7   | 48.5   | 43.1   | 47.4   | 53.8   | 54.4   | 56.0   | 56.1   | 54.8   | 48.4   | 34.9   |    |    |    |    |    |    |  |
| ( 924. RAD/SEC )   | 10000 | 34.7   | 47.2   | 41.3   | 46.8   | 52.2   | 54.1   | 54.7   | 55.4   | 54.4   | 46.3   | 31.7   |    |    |    |    |    |    |  |
| NO. OF BLADES 15   | 12500 | 31.1   | 45.0   | 37.1   | 42.9   | 47.2   | 49.8   | 51.5   | 51.7   | 49.8   | 40.9   | 24.8   |    |    |    |    |    |    |  |
| FAN TIP SPEED      | 16000 | 23.9   | 43.1   | 33.3   | 38.8   | 40.2   | 43.5   | 44.9   | 45.3   | 43.8   | 31.9   | 13.3   |    |    |    |    |    |    |  |
| 460. FT/SEC        | 20000 | 16.9   | 35.6   | 25.1   | 32.0   | 32.2   | 38.4   | 40.1   | 39.4   | 38.6   | 24.1   | 8.2    |    |    |    |    |    |    |  |
|                    | 25000 | 6.4    | 27.8   | 15.8   | 22.7   | 26.5   | 28.8   | 29.4   | 28.6   | 23.7   | 8.6    |        |    |    |    |    |    |    |  |
|                    | 31500 |        | 14.0   | 4.5    | 13.2   | 18.8   | 18.9   | 18.7   | 15.8   | 8.9    |        |        |    |    |    |    |    |    |  |
|                    | 40000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |  |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |  |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |  |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |  |
| OVERALL CALCULATED |       | 57.9   | 61.9   | 62.1   | 65.1   | 67.1   | 69.3   | 70.1   | 69.9   | 68.7   | 64.7   | 57.0   |    |    |    |    |    |    |  |
| PNDP               |       | 68.7   | 73.8   | 73.7   | 77.3   | 79.9   | 82.5   | 83.1   | 83.2   | 82.0   | 77.1   | 68.2   |    |    |    |    |    |    |  |

MODEL SOUND PRESSURE LEVELS (5% DFG, F<sub>0</sub> 70 PERCENT REL. HUM. DAY)  
PRECC. RATE - MONTH 3 DAY 12 HR. 16.3  
ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53.     | 62.     | 71.     | 81.     | 91.     | 101.    | 111.    | 122.    | 133.    | 145.    | 156.    | 0°    | 0°    | 0°    | 0°    | 0°    | 0°    | PWL   |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-------|-------|-------|-------|-------|
|                    | (10.92) | (11.08) | (11.24) | (11.41) | (11.58) | (11.76) | (11.94) | (12.13) | (12.32) | (12.52) | (12.73) | (0)   | (0)   | (0)   | (0)   | (0)   | (0)   | (0)   |
| RADIAL 17. FT.     | 50      | 53      | 56      | 59      | 62      | 65      | 68      | 71      | 74      | 77      | 80      | 83    | 86    | 89    | 92    | 95    | 98    | 101   |
| ( S. M)            | 130     | 128     | 126     | 124     | 122     | 120     | 118     | 116     | 114     | 112     | 110     | 108   | 106   | 104   | 102   | 100   | 98    | 96    |
| VEHICLE            | 120     | 118     | 116     | 114     | 112     | 110     | 108     | 106     | 104     | 102     | 100     | 98    | 96    | 94    | 92    | 90    | 88    | 86    |
| CONFIG C-55        | 160     | 158     | 156     | 154     | 152     | 150     | 148     | 146     | 144     | 142     | 140     | 138   | 136   | 134   | 132   | 130   | 128   | 126   |
| LCC SCHEMECTADY    | 200     | 198     | 196     | 194     | 192     | 190     | 188     | 186     | 184     | 182     | 180     | 178   | 176   | 174   | 172   | 170   | 168   | 166   |
| DATE 1/17/75       | 250     | 248     | 246     | 244     | 242     | 240     | 238     | 236     | 234     | 232     | 230     | 228   | 226   | 224   | 222   | 220   | 218   | 216   |
| RUN 56/1           | 310     | 308     | 306     | 304     | 302     | 300     | 298     | 296     | 294     | 292     | 290     | 288   | 286   | 284   | 282   | 280   | 278   | 276   |
| TYPE               | 400     | 398     | 396     | 394     | 392     | 390     | 388     | 386     | 384     | 382     | 380     | 378   | 376   | 374   | 372   | 370   | 368   | 366   |
| BAR 30.2 HG        | 520     | 518     | 516     | 514     | 512     | 510     | 508     | 506     | 504     | 502     | 500     | 498   | 496   | 494   | 492   | 490   | 488   | 486   |
| (01890. 4/P-2)     | 630     | 628     | 626     | 624     | 622     | 620     | 618     | 616     | 614     | 612     | 610     | 608   | 606   | 604   | 602   | 600   | 598   | 596   |
| TAMB 30. DEC F     | 670     | 668     | 666     | 664     | 662     | 660     | 658     | 656     | 654     | 652     | 650     | 648   | 646   | 644   | 642   | 640   | 638   | 636   |
| (272. DEC K)       | 1000    | 998     | 996     | 994     | 992     | 990     | 988     | 986     | 984     | 982     | 980     | 978   | 976   | 974   | 972   | 970   | 968   | 966   |
| TNET 21. DEC F     | 1250    | 1248    | 1246    | 1244    | 1242    | 1240    | 1238    | 1236    | 1234    | 1232    | 1230    | 1228  | 1226  | 1224  | 1222  | 1220  | 1218  | 1216  |
| (257. DEC K)       | 1600    | 1598    | 1596    | 1594    | 1592    | 1590    | 1588    | 1586    | 1584    | 1582    | 1580    | 1578  | 1576  | 1574  | 1572  | 1570  | 1568  | 1566  |
| NACT C.42 GM/MJ    | 2000    | 1998    | 1996    | 1994    | 1992    | 1990    | 1988    | 1986    | 1984    | 1982    | 1980    | 1978  | 1976  | 1974  | 1972  | 1970  | 1968  | 1966  |
| (-00042 KG/MJ)     | 2500    | 2498    | 2496    | 2494    | 2492    | 2490    | 2488    | 2486    | 2484    | 2482    | 2480    | 2478  | 2476  | 2474  | 2472  | 2470  | 2468  | 2466  |
| NFA 5766 RPM       | 3100    | 3098    | 3096    | 3094    | 3092    | 3090    | 3088    | 3086    | 3084    | 3082    | 3080    | 3078  | 3076  | 3074  | 3072  | 3070  | 3068  | 3066  |
| ( 562. RAD/SEC)    | 4100    | 4098    | 4096    | 4094    | 4092    | 4090    | 4088    | 4086    | 4084    | 4082    | 4080    | 4078  | 4076  | 4074  | 4072  | 4070  | 4068  | 4066  |
| NFX 5523 RPM       | 5000    | 4998    | 4996    | 4994    | 4992    | 4990    | 4988    | 4986    | 4984    | 4982    | 4980    | 4978  | 4976  | 4974  | 4972  | 4970  | 4968  | 4966  |
| ( 578. RAD/SEC)    | 6300    | 6298    | 6296    | 6294    | 6292    | 6290    | 6288    | 6286    | 6284    | 6282    | 6280    | 6278  | 6276  | 6274  | 6272  | 6270  | 6268  | 6266  |
| NFD 6823 RPM       | 8000    | 7998    | 7996    | 7994    | 7992    | 7990    | 7988    | 7986    | 7984    | 7982    | 7980    | 7978  | 7976  | 7974  | 7972  | 7970  | 7968  | 7966  |
| ( 924. RAD/SEC)    | 10000   | 9998    | 9996    | 9994    | 9992    | 9990    | 9988    | 9986    | 9984    | 9982    | 9980    | 9978  | 9976  | 9974  | 9972  | 9970  | 9968  | 9966  |
| NO. OF BLADES 15   | 12000   | 11998   | 11996   | 11994   | 11992   | 11990   | 11988   | 11986   | 11984   | 11982   | 11980   | 11978 | 11976 | 11974 | 11972 | 11970 | 11968 | 11966 |
| FAN TIP SPEED      | 16000   | 15998   | 15996   | 15994   | 15992   | 15990   | 15988   | 15986   | 15984   | 15982   | 15980   | 15978 | 15976 | 15974 | 15972 | 15970 | 15968 | 15966 |
| 488. FT/SEC        | 20000   | 19998   | 19996   | 19994   | 19992   | 19990   | 19988   | 19986   | 19984   | 19982   | 19980   | 19978 | 19976 | 19974 | 19972 | 19970 | 19968 | 19966 |
|                    | 25000   | 24998   | 24996   | 24994   | 24992   | 24990   | 24988   | 24986   | 24984   | 24982   | 24980   | 24978 | 24976 | 24974 | 24972 | 24970 | 24968 | 24966 |
|                    | 31500   | 31498   | 31496   | 31494   | 31492   | 31490   | 31488   | 31486   | 31484   | 31482   | 31480   | 31478 | 31476 | 31474 | 31472 | 31470 | 31468 | 31466 |
|                    | 40000   | 39998   | 39996   | 39994   | 39992   | 39990   | 39988   | 39986   | 39984   | 39982   | 39980   | 39978 | 39976 | 39974 | 39972 | 39970 | 39968 | 39966 |
|                    | 50000   | 49998   | 49996   | 49994   | 49992   | 49990   | 49988   | 49986   | 49984   | 49982   | 49980   | 49978 | 49976 | 49974 | 49972 | 49970 | 49968 | 49966 |
|                    | 63000   | 62998   | 62996   | 62994   | 62992   | 62990   | 62988   | 62986   | 62984   | 62982   | 62980   | 62978 | 62976 | 62974 | 62972 | 62970 | 62968 | 62966 |
|                    | 80000   | 79998   | 79996   | 79994   | 79992   | 79990   | 79988   | 79986   | 79984   | 79982   | 79980   | 79978 | 79976 | 79974 | 79972 | 79970 | 79968 | 79966 |
| OVERALL MEASURED   |         |         |         |         |         |         |         |         |         |         |         |       |       |       |       |       |       |       |
| OVERALL CALCULATED | 82.7    | 83.5    | 84.3    | 85.1    | 85.9    | 86.7    | 87.5    | 88.3    | 89.1    | 89.9    | 90.7    | 91.5  | 92.3  | 93.1  | 93.9  | 94.7  | 95.5  | 96.3  |
| PWDB               | 64.3    | 65.2    | 66.1    | 67.0    | 67.9    | 68.8    | 69.7    | 70.6    | 71.5    | 72.4    | 73.3    | 74.2  | 75.1  | 76.0  | 76.9  | 77.8  | 78.7  | 79.6  |

ORIGINAL PAGE IN  
OF POOR QUALITY

|                     | 57     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0  | 0  | 0  | 0  | 0  |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----|----|----|----|
| PRC.                | (1.02) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0  | 0  | 0  | 0  | 0  |
| SIDELINE 200. FT.   | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50 | 50 | 50 | 50 | 50 |
| ( 69.96 M)          | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50 | 50 | 50 | 50 | 50 |
| VEHICLE             | 48.8   | 51.7   | 54.6   | 56.5   | 58.5   | 59.4   | 51.1   | 45.2   | 47.8   | 47.7   | 46.6   |    |    |    |    |    |
| CONFIG              | 42.9   | 46.6   | 48.3   | 48.7   | 48.0   | 45.0   | 44.5   | 47.6   | 46.6   | 45.1   | 44.7   |    |    |    |    |    |
| LCC SCHEMECTASY     | 40.0   | 41.5   | 42.4   | 44.4   | 44.8   | 45.0   | 46.4   | 47.0   | 47.3   | 46.7   | 45.5   |    |    |    |    |    |
| DATE 1/17/75        | 42.0   | 44.4   | 45.9   | 47.2   | 47.7   | 48.1   | 48.2   | 49.1   | 47.4   | 46.7   | 44.3   |    |    |    |    |    |
| NUM 50/1            | 45.3   | 47.0   | 49.2   | 49.4   | 47.3   | 49.3   | 49.4   | 48.7   | 48.0   | 46.3   | 43.0   |    |    |    |    |    |
| TAFE                | 42.7   | 44.4   | 45.5   | 46.4   | 47.3   | 48.0   | 48.1   | 48.1   | 47.1   | 46.1   | 42.3   |    |    |    |    |    |
| BAR 30-2 MC         | 41.7   | 43.8   | 45.0   | 47.9   | 47.4   | 48.1   | 48.5   | 48.8   | 48.2   | 46.5   | 42.4   |    |    |    |    |    |
| (01090. N/1:2)      | 45.6   | 46.7   | 48.0   | 50.4   | 50.9   | 52.3   | 52.4   | 52.4   | 51.1   | 49.3   | 42.6   |    |    |    |    |    |
| TAND 30. DEC F      | 41.7   | 45.6   | 47.3   | 49.5   | 50.2   | 51.2   | 52.2   | 53.0   | 52.2   | 49.8   | 42.8   |    |    |    |    |    |
| (22. DEC K)         | 43.8   | 45.7   | 47.1   | 49.0   | 51.1   | 52.8   | 54.6   | 55.1   | 54.8   | 52.1   | 42.8   |    |    |    |    |    |
| TRET 21. DEC F      | 59.6   | 51.1   | 52.7   | 56.0   | 57.8   | 60.7   | 60.9   | 61.0   | 60.6   | 58.6   | 47.6   |    |    |    |    |    |
| (207. DEC K)        | 47.4   | 48.1   | 49.6   | 51.2   | 54.9   | 57.0   | 58.5   | 58.2   | 56.4   | 53.6   | 42.9   |    |    |    |    |    |
| MACT 0.42 GN/MS     | 44.2   | 46.2   | 48.6   | 51.0   | 53.0   | 54.9   | 55.5   | 56.0   | 54.6   | 51.5   | 42.4   |    |    |    |    |    |
| (.00642 KC/MS)      | 41.7   | 44.5   | 47.1   | 49.6   | 52.0   | 54.9   | 56.0   | 57.0   | 56.1   | 49.7   | 39.2   |    |    |    |    |    |
| MFA 5366. RPM       | 40.5   | 43.6   | 45.1   | 50.1   | 52.7   | 55.6   | 55.2   | 55.6   | 55.4   | 51.9   | 40.3   |    |    |    |    |    |
| ( 562. RA/SEC)      | 43.6   | 45.6   | 48.2   | 51.9   | 56.0   | 59.1   | 58.9   | 60.0   | 59.7   | 55.4   | 44.2   |    |    |    |    |    |
| MFK 5523. RPM       | 41.3   | 43.2   | 46.4   | 50.6   | 54.0   | 57.8   | 59.4   | 59.9   | 58.3   | 53.4   | 41.0   |    |    |    |    |    |
| ( 578. RAC/SEC)     | 39.8   | 42.9   | 45.5   | 49.7   | 52.8   | 56.7   | 58.7   | 58.5   | 57.8   | 51.5   | 39.2   |    |    |    |    |    |
| MFD 8823. RPM       | 38.5   | 40.3   | 43.3   | 48.2   | 51.3   | 54.7   | 56.5   | 56.6   | 55.3   | 48.9   | 34.9   |    |    |    |    |    |
| ( 924. RA/SEC)      | 33.4   | 36.7   | 40.1   | 45.1   | 48.2   | 52.1   | 54.5   | 53.9   | 53.6   | 44.6   | 38.2   |    |    |    |    |    |
| NO. OF BLADES 15    | 38.8   | 33.4   | 36.1   | 41.7   | 45.2   | 48.5   | 50.3   | 51.2   | 49.5   | 48.4   | 23.8   |    |    |    |    |    |
| FAN TIP SPEED 16000 | 23.6   | 27.1   | 30.3   | 35.8   | 40.2   | 42.5   | 44.4   | 45.1   | 43.8   | 38.4   | 13.8   |    |    |    |    |    |
| 460. FT/SEC         | 18.1   | 20.1   | 23.0   | 31.0   | 34.7   | 37.4   | 38.3   | 38.4   | 35.9   | 28.6   |        |    |    |    |    |    |
| 25000               | 6.4    | 11.1   | 15.8   | 22.9   | 28.0   | 28.3   | 28.5   | 28.1   | 24.0   | 6.6    |        |    |    |    |    |    |
| 31500               |        |        | 3.2    | 11.0   | 15.3   | 17.9   | 17.5   | 15.6   | 6.4    |        |        |    |    |    |    |    |
| 40030               |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
| 50030               |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
| 63630               |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
| 88030               |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
| OVERALL CALCULATOR  | 57.5   | 59.4   | 61.4   | 64.2   | 65.7   | 68.8   | 68.8   | 69.0   | 66.2   | 64.6   | 56.6   |    |    |    |    |    |
| PHD0                | 67.9   | 78.0   | 72.4   | 75.0   | 76.6   | 81.3   | 81.7   | 82.3   | 81.7   | 77.5   | 67.8   |    |    |    |    |    |

MODEL SOUND PRESSURE LEVELS (59. LFG. F. 70 PERCENT DEL. HUM. EAV)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                    | 53.   | 62.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0.    | 0. | 0. | 0. | 0. | 0. | PUL   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|-------|
| PRNG.              | 10.02 | 11.05 | 11.24 | 11.41 | 11.58 | 11.76 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 0.    | 0. | 0. | 0. | 0. | 0. |       |
| RADIAL 17. FT.     | 50    |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
| ( 5. MI)           | 100   | 75.5  | 75.4  | 73.9  | 75.4  | 74.9  | 71.2  | 68.6  | 69.2  | 72.0  | 76.0  | 80.6  |    |    |    |    |    | 100.0 |
| VEHICLE R-54       | 124   | 68.5  | 70.1  | 72.1  | 72.4  | 72.4  | 70.9  | 70.9  | 73.7  | 74.5  | 76.3  | 79.6  |    |    |    |    |    | 102.4 |
| CONFIG 400-7045    | 140   | 67.7  | 68.9  | 69.7  | 70.2  | 70.5  | 70.4  | 72.4  | 73.7  | 75.7  | 77.8  | 79.6  |    |    |    |    |    | 107.4 |
| LOC SCHEMECTADY    | 200   | 67.0  | 68.1  | 68.6  | 69.9  | 71.4  | 73.2  | 74.1  | 75.9  | 77.0  | 79.1  | 80.9  |    |    |    |    |    | 108.7 |
| DATE 1/17/75       | 250   | 70.5  | 71.1  | 71.9  | 72.9  | 73.6  | 73.6  | 74.9  | 75.4  | 76.8  | 78.1  | 79.1  |    |    |    |    |    | 108.7 |
| RUN 50/2           | 314   | 72.5  | 73.6  | 73.4  | 74.4  | 74.6  | 75.2  | 75.1  | 75.4  | 76.5  | 78.1  | 79.1  |    |    |    |    |    | 109.4 |
| TAPE               | 400   | 70.3  | 70.9  | 70.9  | 71.9  | 72.1  | 73.2  | 73.9  | 74.9  | 76.0  | 76.9  | 78.1  |    |    |    |    |    | 100.0 |
| BAR 30.2 MG        | 500   | 69.5  | 70.2  | 70.4  | 72.0  | 72.4  | 74.2  | 74.9  | 75.9  | 77.0  | 77.9  | 77.4  |    |    |    |    |    | 100.5 |
| (0100. N/M2)       | 630   | 72.6  | 72.9  | 74.2  | 75.2  | 75.9  | 77.0  | 78.6  | 79.2  | 79.3  | 79.6  | 77.4  |    |    |    |    |    | 111.2 |
| TAMP 30. DEG F     | 800   | 72.1  | 72.9  | 72.0  | 75.0  | 75.4  | 77.0  | 78.1  | 78.7  | 79.7  | 79.9  | 77.6  |    |    |    |    |    | 111.0 |
| (272. DEG K)       | 1000  | 71.3  | 72.4  | 72.4  | 74.7  | 75.7  | 77.5  | 79.9  | 81.4  | 82.2  | 81.6  | 77.1  |    |    |    |    |    | 112.5 |
| T-ET 21. DEG F     | 1200  | 73.4  | 73.2  | 74.4  | 77.3  | 78.2  | 81.0  | 82.6  | 83.4  | 84.0  | 84.4  | 78.4  |    |    |    |    |    | 114.9 |
| (267. DEG K)       | 1400  | 80.1  | 79.4  | 80.4  | 83.6  | 86.5  | 87.8  | 88.6  | 88.4  | 89.3  | 90.2  | 82.4  |    |    |    |    |    | 120.7 |
| HACT 0.42 CM/M3    | 2000  | 73.1  | 73.2  | 74.6  | 77.3  | 79.2  | 81.0  | 82.6  | 83.4  | 84.0  | 82.6  | 78.4  |    |    |    |    |    | 114.7 |
| (.00042 KG/M3)     | 2500  | 68.3  | 69.9  | 71.1  | 73.4  | 76.2  | 79.2  | 81.0  | 81.1  | 81.5  | 77.4  | 74.3  |    |    |    |    |    | 112.1 |
| NFA 6132. RPM      | 3100  | 71.5  | 73.7  | 75.8  | 77.6  | 80.0  | 83.2  | 86.0  | 88.8  | 87.4  | 86.1  | 80.0  |    |    |    |    |    | 117.9 |
| ( 842. RAD/SEC)    | 4000  | 71.7  | 73.3  | 74.9  | 79.0  | 82.6  | 85.4  | 85.9  | 87.4  | 87.8  | 85.5  | 79.9  |    |    |    |    |    | 119.7 |
| NFK 6311. RPM      | 5000  | 72.9  | 73.3  | 75.1  | 80.0  | 82.6  | 86.0  | 89.6  | 90.0  | 88.5  | 80.4  | 80.4  |    |    |    |    |    | 119.0 |
| ( 601. RAD/SEC)    | 6300  | 71.3  | 73.8  | 75.0  | 78.5  | 82.9  | 85.7  | 88.5  | 89.6  | 90.4  | 85.9  | 80.4  |    |    |    |    |    | 119.9 |
| NFD 6823. RPM      | 8000  | 70.1  | 72.1  | 74.1  | 78.6  | 82.2  | 85.0  | 87.6  | 90.2  | 89.2  | 85.4  | 79.8  |    |    |    |    |    | 119.6 |
| ( 924. RAD/SEC)    | 10000 | 68.7  | 70.7  | 72.5  | 77.8  | 80.9  | 84.4  | 86.8  | 88.5  | 89.7  | 84.3  | 78.9  |    |    |    |    |    | 118.9 |
| NO. OF BLADES 15   | 12500 | 68.2  | 69.4  | 71.4  | 76.1  | 80.1  | 83.1  | 84.9  | 87.9  | 89.2  | 83.7  | 78.4  |    |    |    |    |    | 110.3 |
| PAN TIP SPEED      | 16000 | 65.7  | 67.6  | 69.2  | 74.0  | 77.7  | 81.0  | 83.9  | 86.4  | 87.4  | 82.8  | 78.8  |    |    |    |    |    | 117.0 |
| SSS. FT/SEC        | 20000 | 64.5  | 66.5  | 68.2  | 73.0  | 77.4  | 80.9  | 83.2  | 86.1  | 88.2  | 82.4  | 76.2  |    |    |    |    |    | 117.4 |
|                    | 25000 | 63.6  | 65.8  | 66.9  | 72.0  | 75.4  | 78.6  | 81.4  | 83.7  | 84.8  | 80.2  | 73.5  |    |    |    |    |    | 115.5 |
|                    | 31500 | 61.5  | 64.6  | 65.6  | 71.5  | 75.2  | 78.0  | 80.4  | 82.5  | 83.5  | 78.6  | 71.7  |    |    |    |    |    | 119.3 |
|                    | 40000 | 59.1  | 62.9  | 63.6  | 67.7  | 70.5  | 74.0  | 76.7  | 78.4  | 79.4  | 75.2  | 66.2  |    |    |    |    |    | 112.7 |
|                    | 50000 | 58.5  | 62.3  | 64.4  | 64.4  | 67.0  | 69.4  | 72.5  | 72.7  | 73.2  | 70.8  | 63.0  |    |    |    |    |    | 109.7 |
|                    | 63000 | 57.9  | 61.5  | 64.9  | 67.7  | 64.6  | 65.1  | 66.5  | 65.8  | 66.6  | 65.2  | 62.3  |    |    |    |    |    | 107.5 |
|                    | 83000 | 59.2  | 64.5  | 65.2  | 63.0  | 64.4  | 64.1  | 64.0  | 63.3  | 63.4  | 63.1  | 62.3  |    |    |    |    |    | 110.0 |
| OVERALL MEASURED   |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |       |
| OVERALL CALCULATED |       | 86.0  | 86.7  | 87.6  | 90.7  | 93.5  | 95.9  | 97.7  | 99.2  | 99.9  | 97.3  | 93.0  |    |    |    |    |    | 130.3 |
| PUL                |       | 88.2  | 88.6  | 89.7  | 102.9 | 105.7 | 108.1 | 109.7 | 110.9 | 111.8 | 109.4 | 104.0 |    |    |    |    |    |       |

|                    | 51.   | 62.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 150.  | 0.   | 0. | 0. | 0. | 0. |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----|----|----|----|
| PROF.              | 10.02 | 11.08 | 11.24 | 11.41 | 11.58 | 11.76 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 0.   | 0. | 0. | 0. | 0. |
| 5n                 |       |       |       |       |       |       |       |       |       |       |       |      |    |    |    |    |
| 63                 |       |       |       |       |       |       |       |       |       |       |       |      |    |    |    |    |
| SIDELINE 200. FT.  | 100   | 51.8  | 52.7  | 51.8  | 53.7  | 53.3  | 49.4  | 46.4  | 46.1  | 47.6  | 50.3  | 50.6 |    |    |    |    |
| ( 60.96 MI)        | 100   |       |       |       |       |       |       |       |       |       |       |      |    |    |    |    |
| VEHICLE K-29       | 124   | 44.7  | 47.3  | 50.0  | 50.7  | 50.7  | 49.1  | 48.4  | 50.5  | 50.0  | 49.7  | 49.4 |    |    |    |    |
| CONFIC             | 160   | 43.9  | 46.3  | 48.9  | 48.3  | 48.9  | 46.5  | 50.0  | 50.4  | 51.1  | 51.0  | 49.2 |    |    |    |    |
| LDC SCHEMATIC      | 209   | 43.8  | 45.2  | 46.3  | 48.0  | 49.6  | 41.2  | 51.7  | 52.6  | 52.2  | 52.1  | 50.2 |    |    |    |    |
| DATE 1/17/75       | 270   | 48.4  | 48.1  | 49.5  | 50.9  | 51.7  | 51.0  | 52.3  | 52.0  | 51.1  | 51.0  | 48.2 |    |    |    |    |
| NUM 56/2           | 314   | 48.3  | 50.5  | 50.9  | 52.3  | 52.7  | 53.0  | 52.5  | 51.9  | 51.5  | 50.8  | 48.0 |    |    |    |    |
| TAPE               | 460   | 47.0  | 47.6  | 48.3  | 49.9  | 50.1  | 51.0  | 51.2  | 51.3  | 50.9  | 49.4  | 46.0 |    |    |    |    |
| BAR 30.2 MG        | 570   | 45.2  | 46.0  | 47.7  | 49.7  | 50.3  | 51.9  | 52.1  | 52.2  | 51.0  | 50.3  | 45.0 |    |    |    |    |
| (01090. 4/1/2)     | 630   | 49.1  | 49.4  | 51.4  | 52.9  | 53.7  | 54.6  | 55.7  | 55.3  | 53.9  | 51.9  | 45.5 |    |    |    |    |
| TANG 30. DEG F     | 630   | 47.4  | 49.3  | 50.0  | 52.5  | 53.1  | 54.4  | 55.1  | 54.7  | 54.2  | 51.7  | 45.5 |    |    |    |    |
| (272. DEG F)       | 1000  | 46.5  | 48.6  | 49.4  | 52.1  | 53.2  | 54.0  | 54.7  | 57.3  | 54.5  | 53.4  | 44.7 |    |    |    |    |
| TACT 21. DEG F     | 1250  | 44.4  | 49.7  | 51.2  | 54.5  | 56.6  | 58.2  | 59.3  | 59.1  | 58.1  | 54.0  | 45.6 |    |    |    |    |
| (257. DEG F)       | 1600  | 54.9  | 55.3  | 57.0  | 58.6  | 63.7  | 64.8  | 65.1  | 63.9  | 63.1  | 61.4  | 49.1 |    |    |    |    |
| NACT 0.42 G/1/3    | 2000  | 47.7  | 48.9  | 51.1  | 54.2  | 56.3  | 57.9  | 59.1  | 58.7  | 57.6  | 53.6  | 44.6 |    |    |    |    |
| (.00042 G/1/3)     | 2500  | 42.7  | 45.4  | 47.4  | 50.7  | 53.1  | 55.9  | 57.9  | 54.2  | 54.0  | 48.0  | 48.1 |    |    |    |    |
| NFA 0.32. RPY      | 3150  | 45.5  | 48.0  | 51.0  | 55.0  | 58.6  | 61.0  | 61.0  | 61.5  | 60.4  | 54.3  | 45.1 |    |    |    |    |
| ( 042. RAS/SEC)    | 4000  | 45.1  | 48.0  | 50.5  | 55.1  | 58.8  | 61.4  | 61.2  | 61.7  | 60.2  | 54.9  | 43.9 |    |    |    |    |
| NFR 0.311. RPY     | 5000  | 46.0  | 47.7  | 50.4  | 55.0  | 58.5  | 61.0  | 63.1  | 63.5  | 62.1  | 55.4  | 44.2 |    |    |    |    |
| ( 001. RAS/SEC)    | 6300  | 43.6  | 47.4  | 49.5  | 53.6  | 58.1  | 60.7  | 62.0  | 62.7  | 61.5  | 53.6  | 41.9 |    |    |    |    |
| NFD 0.23. RPY      | 8000  | 41.0  | 44.4  | 47.3  | 52.6  | 58.4  | 60.9  | 60.0  | 62.0  | 60.6  | 51.2  | 38.3 |    |    |    |    |
| ( 024. RAS/SEC)    | 10000 | 37.7  | 41.4  | 44.3  | 50.7  | 53.5  | 56.8  | 58.3  | 58.6  | 57.1  | 47.4  | 33.7 |    |    |    |    |
| NO. OF BLADES 15   | 12500 | 34.3  | 37.6  | 40.9  | 46.4  | 50.5  | 53.3  | 54.1  | 55.3  | 53.6  | 42.9  | 27.5 |    |    |    |    |
| PAN TIP SPEED      | 10000 | 27.1  | 31.6  | 34.0  | 40.5  | 44.6  | 47.5  | 49.2  | 49.5  | 46.7  | 34.7  | 16.5 |    |    |    |    |
| 535. FT/SEC        | 20000 | 19.9  | 25.0  | 26.8  | 34.7  | 39.5  | 42.2  | 43.4  | 43.6  | 40.9  | 26.7  | 3.4  |    |    |    |    |
|                    | 25000 | 9.7   | 16.5  | 20.3  | 26.9  | 30.0  | 33.3  | 34.3  | 33.1  | 28.0  | 12.4  |      |    |    |    |    |
|                    | 31500 |       | 4.0   | 8.5   | 16.4  | 20.6  | 22.6  | 22.6  | 20.0  | 12.7  |       |      |    |    |    |    |
|                    | 40000 |       |       |       |       | 1.2   | 3.0   | 3.0   |       |       |       |      |    |    |    |    |
|                    | 50000 |       |       |       |       |       |       |       |       |       |       |      |    |    |    |    |
|                    | 63000 |       |       |       |       |       |       |       |       |       |       |      |    |    |    |    |
|                    | 80000 |       |       |       |       |       |       |       |       |       |       |      |    |    |    |    |
| OVERALL CALCULATED | 60.7  | 62.3  | 63.7  | 64.9  | 66.4  | 71.3  | 72.2  | 72.2  | 70.0  | 67.0  | 56.0  |      |    |    |    |    |
| PA20               | 72.4  | 72.9  | 73.0  | 79.3  | 82.0  | 84.3  | 85.1  | 85.2  | 83.0  | 79.5  | 69.0  |      |    |    |    |    |





MOTOR SOUND PRESSURE LEVELS (50. DFG, F. 70 PERCENTY DEL. NUM. EAV)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | 53      | 62      | 71      | 81      | 91      | 101     | 111     | 122     | 133     | 145     | 156     | 0    | 0   | 0   | 0   | 0   | 0   |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|-----|-----|-----|-----|-----|
| FREQ.               | (10.82) | (11.08) | (11.24) | (11.41) | (11.58) | (11.76) | (11.94) | (12.13) | (12.32) | (12.52) | (12.73) | (0)  | (0) | (0) | (0) | (0) | (0) |
| SIDELINE 200. FT.   | 50      |         |         |         |         |         |         |         |         |         |         |      |     |     |     |     |     |
| ( 60.96 M)          | 50      |         |         |         |         |         |         |         |         |         |         |      |     |     |     |     |     |
| VEHICLE R=55        | 130     | 42.3    | 52.4    | 52.4    | 52.7    | 56.8    | 51.4    | 56.4    | 49.3    | 51.4    | 54.3    | 54.1 |     |     |     |     |     |
| CONFIG              | 174     | 47.5    | 56.4    | 55.7    | 55.7    | 54.7    | 54.8    | 53.1    | 53.8    | 54.0    | 53.9    | 53.1 |     |     |     |     |     |
| LOC SCHEMECTADY     | 190     | 47.1    | 44.5    | 49.7    | 50.4    | 50.7    | 51.5    | 53.5    | 53.9    | 54.3    | 54.8    | 53.4 |     |     |     |     |     |
| DATE 1/17/75        | 250     | 46.3    | 47.7    | 48.4    | 50.7    | 52.1    | 53.9    | 54.2    | 55.1    | 55.2    | 55.4    | 54.2 |     |     |     |     |     |
| RUN: 56/3           | 290     | 49.9    | 51.3    | 53.0    | 54.2    | 58.0    | 54.0    | 56.1    | 55.7    | 55.6    | 55.5    | 53.0 |     |     |     |     |     |
| TAPE                | 314     | 51.6    | 53.2    | 53.9    | 55.7    | 55.7    | 56.0    | 55.5    | 55.6    | 55.3    | 54.6    | 52.0 |     |     |     |     |     |
| BAR 30.2 HG         | 400     | 49.0    | 50.4    | 51.6    | 52.5    | 53.6    | 54.0    | 54.4    | 54.5    | 53.9    | 53.7    | 51.0 |     |     |     |     |     |
| (101890. N/H2)      | 500     | 47.7    | 49.0    | 50.2    | 51.9    | 53.0    | 54.1    | 55.1    | 54.7    | 54.5    | 53.8    | 49.6 |     |     |     |     |     |
| TAHB 30. DEG F      | 630     | 51.1    | 51.9    | 53.1    | 55.4    | 55.9    | 57.6    | 58.2    | 58.1    | 56.6    | 54.9    | 49.3 |     |     |     |     |     |
| (272. DEG K)        | 800     | 50.7    | 52.3    | 53.0    | 55.0    | 55.6    | 57.2    | 57.6    | 57.7    | 57.2    | 54.9    | 49.0 |     |     |     |     |     |
| THET 21. DEG F      | 1000    | 49.3    | 50.8    | 52.1    | 54.4    | 55.9    | 57.8    | 59.2    | 59.3    | 58.5    | 55.7    | 47.7 |     |     |     |     |     |
| (267. DEG K)        | 1250    | 50.4    | 50.8    | 53.0    | 55.4    | 57.6    | 59.5    | 60.4    | 60.9    | 59.6    | 56.7    | 47.8 |     |     |     |     |     |
| NACY 0.42 CM/M3     | 1600    | 55.9    | 55.3    | 57.8    | 61.6    | 63.7    | 65.8    | 68.3    | 68.2    | 63.9    | 60.9    | 50.1 |     |     |     |     |     |
| (1.00042 KG/M3)     | 2000    | 52.7    | 53.9    | 55.6    | 58.5    | 60.5    | 62.6    | 63.9    | 63.9    | 62.1    | 58.3    | 48.4 |     |     |     |     |     |
| NFA 6894. RPM       | 2500    | 46.2    | 48.2    | 50.4    | 53.1    | 56.1    | 58.9    | 59.7    | 58.9    | 56.6    | 50.5    | 42.9 |     |     |     |     |     |
| ( 722. RAD/SEC)     | 3150    | 47.5    | 51.2    | 53.5    | 57.5    | 61.1    | 64.4    | 64.5    | 63.0    | 63.4    | 56.5    | 46.6 |     |     |     |     |     |
| NFK 7095. RPM       | 4000    | 49.4    | 51.3    | 54.0    | 59.1    | 62.6    | 65.4    | 65.7    | 64.7    | 63.5    | 57.2    | 47.2 |     |     |     |     |     |
| ( 743. RAD/SEC)     | 5000    | 48.5    | 50.9    | 53.4    | 58.4    | 63.0    | 66.0    | 66.6    | 67.3    | 65.1    | 57.9    | 46.7 |     |     |     |     |     |
| NFD 8823. RPM       | 6300    | 46.3    | 50.1    | 52.3    | 57.4    | 61.1    | 64.7    | 66.3    | 66.2    | 64.8    | 56.6    | 44.4 |     |     |     |     |     |
| ( 924. RAD/SEC)     | 8000    | 44.5    | 48.2    | 51.0    | 56.4    | 59.9    | 63.4    | 64.8    | 64.8    | 62.8    | 54.0    | 40.8 |     |     |     |     |     |
| NO. OF BLADES 15    | 10000   | 40.7    | 45.1    | 48.1    | 54.3    | 57.0    | 60.6    | 63.3    | 62.1    | 60.1    | 50.2    | 36.7 |     |     |     |     |     |
| PAN TIP SPEED 16050 | 12500   | 37.3    | 41.6    | 44.6    | 50.9    | 54.0    | 57.0    | 58.4    | 59.6    | 56.6    | 45.9    | 30.0 |     |     |     |     |     |
| 602. FT/SEC         | 20000   | 23.1    | 28.3    | 32.1    | 39.2    | 43.3    | 46.2    | 47.7    | 47.8    | 43.6    | 29.4    | 6.4  |     |     |     |     |     |
|                     | 25000   | 13.2    | 19.3    | 23.8    | 31.6    | 35.3    | 37.8    | 38.5    | 37.6    | 32.5    | 18.9    |      |     |     |     |     |     |
|                     | 31500   |         | 7.2     | 12.2    | 20.4    | 24.6    | 27.1    | 27.1    | 24.2    | 16.7    |         |      |     |     |     |     |     |
|                     | 40000   |         |         |         | 2.1     | 5.5     | 6.4     | 7.5     | 2.7     |         |         |      |     |     |     |     |     |
|                     | 50000   |         |         |         |         |         |         |         |         |         |         |      |     |     |     |     |     |
|                     | 63000   |         |         |         |         |         |         |         |         |         |         |      |     |     |     |     |     |
|                     | 80000   |         |         |         |         |         |         |         |         |         |         |      |     |     |     |     |     |
| OVERALL CALCULATED  |         | 62.7    | 65.1    | 66.5    | 69.4    | 71.9    | 74.5    | 75.7    | 75.2    | 73.7    | 69.1    | 63.4 |     |     |     |     |     |
| PNDP                |         | 74.5    | 76.4    | 78.4    | 82.3    | 85.2    | 87.8    | 89.3    | 88.5    | 86.9    | 81.4    | 72.7 |     |     |     |     |     |

53. 52. 71. 41. 91. 101. 111. 122. 133. 145. 156. 0. 0. 0. 0. 0. PWL  
 (2.92)(1.06)(1.24)(1.41)(1.58)(1.75)(1.94)(2.13)(2.32)(2.52)(2.73)(0. 110. 110. 110. 110. 110.)

|                     | 53.   | 52.   | 71.   | 41.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0.    | 0. | 0. | 0. | 0. | PWL   |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-------|
| RADIAL 17. FT.      |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |       |
| VEHICLE 5. MI       | 150   | 59.3  | 72.4  | 73.4  | 77.7  | 74.1  | 74.7  | 74.4  | 75.7  | 79.9  | 83.9  | 87.4  |    |    |    |    | 112.0 |
| CONFIG B-55         | 174   | 75.4  | 77.9  | 77.7  | 77.4  | 74.7  | 77.2  | 78.4  | 80.2  | 80.7  | 83.8  | 87.1  |    |    |    |    | 114.2 |
| LCC SCHEMECTADY     | 250   | 73.8  | 73.4  | 73.9  | 75.7  | 76.7  | 77.9  | 79.6  | 81.7  | 83.2  | 86.1  | 88.6  |    |    |    |    | 114.2 |
| DATE 1/17/75        | 250   | 77.5  | 74.4  | 74.6  | 80.7  | 80.6  | 80.9  | 82.9  | 84.1  | 84.7  | 86.8  | 88.1  |    |    |    |    | 116.9 |
| RUN 55/4            | 314   | 78.5  | 78.9  | 79.1  | 80.7  | 79.9  | 80.9  | 81.4  | 82.2  | 83.2  | 85.1  | 86.9  |    |    |    |    | 115.9 |
| TARE                | 420   | 74.5  | 77.1  | 76.9  | 77.4  | 74.1  | 74.9  | 80.1  | 80.9  | 82.5  | 84.9  | 85.1  |    |    |    |    | 114.5 |
| BAR 30.2 HG         | 520   | 74.7  | 75.4  | 75.4  | 77.5  | 77.9  | 79.5  | 80.6  | 82.2  | 84.2  | 83.9  | 84.9  |    |    |    |    | 114.7 |
| (101890. W/M2)      | 830   | 77.7  | 77.2  | 78.7  | 80.2  | 83.7  | 81.7  | 83.4  | 84.2  | 85.0  | 85.1  | 84.6  |    |    |    |    | 116.4 |
| TAMB 30. DEG F      | 870   | 74.2  | 74.2  | 74.2  | 77.7  | 80.7  | 81.7  | 83.1  | 83.9  | 85.0  | 85.1  | 84.1  |    |    |    |    | 116.3 |
| (272. DEG K)        | 1700  | 76.4  | 77.4  | 77.7  | 79.7  | 83.9  | 87.2  | 84.6  | 85.4  | 85.7  | 85.1  | 83.1  |    |    |    |    | 118.8 |
| T-ET 21. DEG F      | 1700  | 75.9  | 77.2  | 74.9  | 80.5  | 82.2  | 84.0  | 85.9  | 86.4  | 84.7  | 85.8  | 82.6  |    |    |    |    | 117.8 |
| (267. DEG K)        | 1700  | 75.4  | 79.4  | 82.4  | 87.1  | 84.7  | 85.8  | 84.1  | 84.4  | 84.4  | 85.9  | 82.1  |    |    |    |    | 119.6 |
| MACT 0.42 GM/M3     | 2000  | 84.2  | 83.2  | 85.1  | 87.4  | 89.3  | 91.3  | 93.8  | 94.9  | 95.0  | 98.9  | 87.8  |    |    |    |    | 125.3 |
| (0.0042 KG/M3)      | 2500  | 75.1  | 75.9  | 77.3  | 80.3  | 82.5  | 84.2  | 86.0  | 86.3  | 86.4  | 81.9  | 80.3  |    |    |    |    | 117.4 |
| MFA 7458. RPM       | 3100  | 75.1  | 77.2  | 74.4  | 81.1  | 85.5  | 87.2  | 87.0  | 89.0  | 89.0  | 85.1  | 81.8  |    |    |    |    | 119.9 |
| (802. RAD/SEC)      | 4000  | 79.5  | 81.6  | 83.7  | 87.5  | 92.4  | 92.6  | 93.1  | 95.2  | 94.6  | 90.5  | 87.2  |    |    |    |    | 125.4 |
| MFK 7881. RPM       | 5000  | 77.9  | 79.0  | 81.4  | 84.5  | 89.3  | 91.5  | 94.0  | 94.6  | 94.5  | 89.7  | 84.8  |    |    |    |    | 125.0 |
| (825. RAD/SEC)      | 6300  | 79.2  | 80.5  | 83.2  | 87.5  | 93.4  | 92.5  | 96.7  | 94.6  | 97.2  | 90.3  | 89.4  |    |    |    |    | 127.1 |
| MFD 8823. RPM       | 8000  | 74.7  | 79.6  | 82.4  | 86.6  | 89.2  | 91.6  | 94.4  | 95.7  | 94.9  | 89.9  | 85.1  |    |    |    |    | 125.7 |
| (974. RAD/SEC)      | 10000 | 75.6  | 78.0  | 81.3  | 86.2  | 89.4  | 91.9  | 94.8  | 95.3  | 94.7  | 89.3  | 84.6  |    |    |    |    | 125.6 |
| NO. OF BLADES 15    | 17500 | 74.8  | 76.4  | 79.1  | 84.6  | 87.6  | 91.1  | 92.9  | 94.8  | 94.7  | 89.0  | 83.9  |    |    |    |    | 125.1 |
| FAN TIP SPEED 16000 | 20000 | 72.2  | 74.6  | 77.2  | 82.5  | 85.9  | 88.0  | 91.9  | 93.7  | 92.9  | 87.8  | 83.3  |    |    |    |    | 123.8 |
| 669. FT/SEC         | 25000 | 72.3  | 73.7  | 76.2  | 81.7  | 84.9  | 88.3  | 91.2  | 94.1  | 94.0  | 87.7  | 82.2  |    |    |    |    | 124.5 |
|                     | 31000 | 70.8  | 72.5  | 75.9  | 81.0  | 84.4  | 86.6  | 90.9  | 93.5  | 92.8  | 86.7  | 81.4  |    |    |    |    | 124.3 |
|                     | 31500 | 69.6  | 71.1  | 74.6  | 80.3  | 83.2  | 86.0  | 88.9  | 91.5  | 90.7  | 85.4  | 79.2  |    |    |    |    | 123.4 |
|                     | 40000 | 66.2  | 67.6  | 71.5  | 76.7  | 78.3  | 82.3  | 85.5  | 86.6  | 86.9  | 81.9  | 72.7  |    |    |    |    | 120.8 |
|                     | 50000 | 64.6  | 63.6  | 67.4  | 70.5  | 73.7  | 76.7  | 81.3  | 81.2  | 81.2  | 77.6  | 67.5  |    |    |    |    | 117.5 |
|                     | 63000 | 64.7  | 61.3  | 65.2  | 64.7  | 67.3  | 69.9  | 73.5  | 72.5  | 72.9  | 70.2  | 63.8  |    |    |    |    | 112.8 |
|                     | 80000 | 66.8  | 64.2  | 65.4  | 63.3  | 64.4  | 64.4  | 66.3  | 65.3  | 65.6  | 64.4  | 62.5  |    |    |    |    | 111.8 |
| OVERALL MEASURED    |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |       |
| OVERALL CALCULATED  |       | 91.3  | 92.0  | 93.7  | 97.2  | 99.6  | 101.9 | 104.5 | 105.7 | 105.6 | 101.4 | 99.4  |    |    |    |    | 126.5 |
| PNDW                |       | 134.1 | 134.8 | 136.6 | 139.9 | 142.2 | 144.2 | 146.2 | 147.6 | 147.2 | 143.6 | 141.8 |    |    |    |    |       |

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|                           | 53.    | 60.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 150.   | 0.   | 0.   | 0.   | 0. | 0. | 0. |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|----|----|----|
| PRFC.                     | (1.82) | (1.59) | (1.24) | (1.41) | (1.53) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.   | 0.   | 0.   | 0. | 0. | 0. |
| SIDELINE 200. FT.         | 67     |        |        |        |        |        |        |        |        |        |        |      |      |      |    |    |    |
| ( 60.96 M)                | 100    |        |        |        |        |        |        |        |        |        |        |      |      |      |    |    |    |
| VEHICLE                   | 12A    | 45.6   | 49.7   | 51.3   | 52.3   | 52.6   | 52.9   | 52.4   | 52.5   | 55.1   | 57.3   | 57.3 |      |      |    |    |    |
| CONFIG                    | 14A    | 47.9   | 51.5   | 52.4   | 53.7   | 54.2   | 54.7   | 54.8   | 57.2   | 58.1   | 58.2   | 56.2 | 57.2 | 56.2 |    |    |    |
| LDC SCHEMECTATV           | 20A    | 49.8   | 52.4   | 51.4   | 53.2   | 55.1   | 56.7   | 57.2   | 58.3   | 58.3   | 58.3   | 58.1 | 58.2 | 56.2 |    |    |    |
| DATE 1/17/75              | 25A    | 52.5   | 55.3   | 56.2   | 58.7   | 58.7   | 58.9   | 60.3   | 60.7   | 59.9   | 59.7   | 57.2 |      |      |    |    |    |
| RUN 50/4                  | 31A    | 54.4   | 55.7   | 56.7   | 58.1   | 57.9   | 58.8   | 58.7   | 58.6   | 58.3   | 57.4   | 55.8 |      |      |    |    |    |
| TAPE                      | 40A    | 52.3   | 53.9   | 54.3   | 55.7   | 56.1   | 56.7   | 57.4   | 57.3   | 57.4   | 57.4   | 53.8 |      |      |    |    |    |
| BAR 30.2 MC               | 51A    | 50.5   | 52.2   | 52.7   | 55.2   | 55.8   | 57.1   | 57.8   | 58.4   | 59.0   | 56.3   | 52.3 |      |      |    |    |    |
| (01890. N/M2)             | 67C    | 53.1   | 53.7   | 55.9   | 57.9   | 58.4   | 59.3   | 60.5   | 60.3   | 59.6   | 57.4   | 52.8 |      |      |    |    |    |
| TAMB 30. DEG F            | 77A    | 53.5   | 54.5   | 55.3   | 57.2   | 58.3   | 59.2   | 60.1   | 59.9   | 59.5   | 57.1   | 52.8 |      |      |    |    |    |
| (272. DEG K)              | 100B   | 51.6   | 53.8   | 54.7   | 57.1   | 58.4   | 59.6   | 61.4   | 61.3   | 60.0   | 56.9   | 50.7 |      |      |    |    |    |
| TACT 21. DEG F            | 125B   | 51.2   | 53.3   | 55.7   | 57.4   | 59.6   | 61.2   | 62.5   | 62.1   | 60.9   | 57.2   | 49.8 |      |      |    |    |    |
| (267. DEG K)              | 140B   | 54.2   | 55.3   | 57.0   | 58.1   | 62.0   | 62.8   | 64.6   | 63.9   | 62.6   | 57.2   | 48.9 |      |      |    |    |    |
| MACT 0.42 GM/PT           | 200B   | 58.7   | 58.9   | 61.8   | 64.7   | 66.3   | 68.1   | 70.1   | 70.2   | 68.4   | 61.8   | 53.9 |      |      |    |    |    |
| (.00042 KG/PT)            | 250B   | 49.5   | 51.4   | 54.1   | 57.1   | 59.4   | 60.9   | 62.2   | 61.4   | 59.8   | 52.5   | 46.1 |      |      |    |    |    |
| NPA 743A. RPM             | 310B   | 47.1   | 52.3   | 54.8   | 58.5   | 62.1   | 63.6   | 65.8   | 63.8   | 62.9   | 55.3   | 46.9 |      |      |    |    |    |
| ( 802. RA-/SEC)           | 400B   | 53.2   | 58.3   | 59.2   | 63.6   | 68.6   | 68.8   | 68.5   | 69.4   | 67.0   | 59.8   | 51.2 |      |      |    |    |    |
| NPK 7881. RPM             | 500B   | 51.1   | 53.4   | 58.7   | 61.3   | 65.3   | 67.3   | 69.1   | 68.5   | 66.8   | 58.7   | 49.2 |      |      |    |    |    |
| ( 825. RA7/SEC)           | 630B   | 51.4   | 54.1   | 57.3   | 62.6   | 65.5   | 67.5   | 71.1   | 69.7   | 68.3   | 58.1   | 46.9 |      |      |    |    |    |
| NPD 8A23. RPM             | 800B   | 47.3   | 51.2   | 55.8   | 58.5   | 61.4   | 65.7   | 67.4   | 67.5   | 64.5   | 55.7   | 43.8 |      |      |    |    |    |
| ( 924. RA3/SEC)           | 1000B  | 44.5   | 48.6   | 52.8   | 58.5   | 61.0   | 64.3   | 66.3   | 65.3   | 62.1   | 52.4   | 39.4 |      |      |    |    |    |
| NG. OF BLADES 15          | 1250B  | 40.9   | 44.8   | 48.6   | 54.9   | 58.0   | 61.3   | 62.1   | 62.3   | 59.1   | 48.2   | 33.0 |      |      |    |    |    |
| FAN TIP SPEED 669. FT/SEC | 1600B  | 33.7   | 38.8   | 42.8   | 49.2   | 52.9   | 54.5   | 57.2   | 56.8   | 52.2   | 39.7   | 23.0 |      |      |    |    |    |
|                           | 2000B  | 27.7   | 32.3   | 36.8   | 43.5   | 47.0   | 49.9   | 51.4   | 51.8   | 46.6   | 31.9   | 9.4  |      |      |    |    |    |
|                           | 2500B  | 17.5   | 23.3   | 29.3   | 35.9   | 39.8   | 41.3   | 43.8   | 42.9   | 38.0   | 18.9   |      |      |      |    |    |    |
|                           | 3100B  | 7.5    | 10.5   | 17.5   | 25.1   | 28.8   | 30.8   | 31.1   | 29.0   | 20.0   |        |      |      |      |    |    |    |
|                           | 4000B  |        |        |        | 8.8    | 9.5    | 11.9   | 11.7   | 6.5    |        |        |      |      |      |    |    |    |
|                           | 5000B  |        |        |        |        |        |        |        |        |        |        |      |      |      |    |    |    |
|                           | 6300B  |        |        |        |        |        |        |        |        |        |        |      |      |      |    |    |    |
|                           | 8000B  |        |        |        |        |        |        |        |        |        |        |      |      |      |    |    |    |
| OVERALL CALCULATED        |        | 65.6   | 67.3   | 69.3   | 72.6   | 74.8   | 76.6   | 78.3   | 78.0   | 74.3   | 71.0   | 66.8 |      |      |    |    |    |
| PHSD                      |        | 78.2   | 79.8   | 82.3   | 86.1   | 88.5   | 90.3   | 91.3   | 91.4   | 89.5   | 83.4   | 78.0 |      |      |    |    |    |

FREQ. 53, 62, 71, 81, 91, 101, 111, 122, 133, 145, 156, 0, 0, 0, 0, 0, 0, PNL  
 (0.92)(1.08)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(0, 110, 110, 110, 110, 110, )

|                     | 53    | 62    | 71    | 81    | 91    | 101   | 111   | 122   | 133   | 145   | 156   | 0     | 0 | 0 | 0 | 0 | 0 | PNL   |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|---|---|---|---|-------|
| RADIAL 17. FT.      | 100   | 118.8 | 122.1 | 122.9 | 123.2 | 123.6 | 123.9 | 124.5 | 125.2 | 126.4 | 127.6 | 127.6 |   |   |   |   |   | 112.4 |
| VEHICLE 1 5. M1     | 125   | 125.5 | 125.6 | 125.1 | 125.9 | 127.1 | 127.2 | 128.4 | 129.4 | 131.0 | 132.1 | 132.1 |   |   |   |   |   | 114.3 |
| CONFIG 169          | 169   | 174.1 | 174.9 | 174.7 | 175.9 | 175.9 | 176.2 | 178.0 | 180.7 | 182.0 | 184.1 | 184.1 |   |   |   |   |   | 114.1 |
| LPC SCHEMECTARY     | 250   | 273.5 | 273.4 | 274.7 | 275.4 | 276.9 | 279.2 | 280.0 | 281.4 | 282.5 | 283.8 | 284.1 |   |   |   |   |   | 115.0 |
| DATE 1/17/75        | 250   | 277.3 | 277.9 | 280.1 | 280.2 | 280.4 | 281.1 | 282.0 | 284.1 | 285.0 | 286.8 | 286.8 |   |   |   |   |   | 117.0 |
| RUN 56/5            | 314   | 278.6 | 278.6 | 279.9 | 280.4 | 280.4 | 280.9 | 281.1 | 281.9 | 283.0 | 284.8 | 284.8 |   |   |   |   |   | 115.8 |
| TAPE                | 400   | 276.8 | 276.9 | 277.7 | 278.4 | 278.4 | 279.2 | 280.1 | 281.4 | 282.0 | 284.6 | 284.6 |   |   |   |   |   | 114.7 |
| BAR 30.2 MG         | 500   | 275.1 | 275.2 | 275.9 | 277.5 | 277.9 | 279.2 | 281.1 | 282.2 | 282.5 | 284.4 | 284.9 |   |   |   |   |   | 114.5 |
| (01850. H/M2)       | 630   | 277.7 | 277.4 | 278.9 | 280.2 | 280.7 | 282.2 | 283.6 | 284.2 | 284.3 | 285.1 | 284.6 |   |   |   |   |   | 116.4 |
| TAMB 30. DEG F      | 800   | 277.4 | 278.2 | 278.2 | 280.0 | 280.7 | 282.2 | 283.4 | 284.4 | 284.5 | 285.1 | 284.1 |   |   |   |   |   | 116.3 |
| (272. DEG F)        | 1000  | 276.7 | 277.2 | 277.4 | 280.0 | 280.7 | 282.7 | 283.6 | 285.4 | 286.0 | 285.4 | 283.1 |   |   |   |   |   | 118.9 |
| T-LET 21. DEG F     | 1250  | 277.4 | 277.4 | 279.2 | 281.0 | 282.5 | 284.7 | 286.1 | 286.4 | 286.5 | 285.6 | 283.1 |   |   |   |   |   | 117.9 |
| (267. DEG F)        | 1600  | 279.2 | 279.4 | 280.1 | 282.6 | 284.0 | 285.8 | 288.1 | 288.9 | 288.5 | 286.2 | 282.4 |   |   |   |   |   | 119.6 |
| MACT 0.42 CM/M3     | 2000  | 284.2 | 283.2 | 284.9 | 286.1 | 289.5 | 291.8 | 293.8 | 295.6 | 295.2 | 291.6 | 287.6 |   |   |   |   |   | 125.7 |
| (0.00042 KG/M3)     | 2500  | 274.9 | 275.4 | 277.4 | 280.3 | 283.0 | 284.5 | 286.5 | 286.8 | 288.2 | 282.1 | 280.3 |   |   |   |   |   | 117.6 |
| NFA 7463. RPM       | 3150  | 275.4 | 277.2 | 278.5 | 282.6 | 285.7 | 287.2 | 287.2 | 289.0 | 289.0 | 285.6 | 281.9 |   |   |   |   |   | 120.0 |
| (802. RAD/SEC)      | 4000  | 278.8 | 281.3 | 283.4 | 287.5 | 290.7 | 292.4 | 293.4 | 295.4 | 294.8 | 291.3 | 287.2 |   |   |   |   |   | 129.6 |
| NFK 7887. RPM       | 5000  | 277.7 | 278.5 | 281.4 | 285.7 | 288.8 | 291.8 | 294.0 | 294.6 | 295.0 | 290.5 | 284.6 |   |   |   |   |   | 125.1 |
| (826. RAD/SEC)      | 6300  | 279.2 | 280.0 | 283.2 | 287.4 | 290.6 | 293.2 | 297.2 | 296.8 | 297.4 | 291.1 | 285.9 |   |   |   |   |   | 127.4 |
| NFD 8823. RPM       | 8000  | 276.9 | 278.8 | 281.9 | 287.1 | 289.7 | 292.5 | 294.4 | 295.9 | 295.4 | 290.2 | 284.8 |   |   |   |   |   | 126.0 |
| (924. RAD/SEC)      | 10000 | 275.8 | 277.7 | 280.3 | 285.0 | 288.9 | 291.7 | 294.0 | 295.5 | 294.7 | 289.6 | 284.6 |   |   |   |   |   | 125.5 |
| NO. OF BLADES 15    | 12500 | 275.3 | 275.2 | 279.1 | 284.1 | 288.1 | 291.1 | 292.9 | 294.9 | 294.9 | 289.2 | 283.4 |   |   |   |   |   | 128.2 |
| FAN TIP SPEED 16000 | 16000 | 272.7 | 274.3 | 277.2 | 282.5 | 285.7 | 288.7 | 291.7 | 293.9 | 292.0 | 287.5 | 282.8 |   |   |   |   |   | 123.9 |
| 669. FT/SEC         | 20000 | 272.1 | 273.2 | 276.7 | 282.0 | 285.6 | 288.3 | 291.2 | 294.6 | 293.7 | 287.9 | 282.0 |   |   |   |   |   | 124.6 |
|                     | 25000 | 271.3 | 272.8 | 275.6 | 281.8 | 284.4 | 287.6 | 290.6 | 292.5 | 292.8 | 287.5 | 281.5 |   |   |   |   |   | 124.1 |
|                     | 31500 | 263.3 | 270.8 | 274.6 | 280.8 | 283.0 | 286.6 | 289.1 | 291.5 | 291.0 | 285.9 | 278.9 |   |   |   |   |   | 123.8 |
|                     | 40000 | 266.4 | 267.1 | 270.6 | 276.4 | 279.3 | 282.5 | 285.5 | 286.9 | 286.7 | 282.4 | 272.7 |   |   |   |   |   | 120.8 |
|                     | 50000 | 264.9 | 264.1 | 267.1 | 270.5 | 274.5 | 277.2 | 280.8 | 281.2 | 281.4 | 278.1 | 267.2 |   |   |   |   |   | 117.5 |
|                     | 63000 | 265.0 | 261.0 | 265.2 | 265.0 | 267.8 | 270.4 | 273.5 | 273.0 | 273.4 | 270.9 | 263.3 |   |   |   |   |   | 112.9 |
|                     | 80000 | 266.8 | 263.5 | 265.2 | 263.3 | 264.4 | 264.9 | 266.3 | 265.5 | 265.9 | 264.8 | 262.0 |   |   |   |   |   | 111.8 |
| OVERALL MEASURED    |       |       |       |       |       |       |       |       |       |       |       |       |   |   |   |   |   |       |
| OVERALL CALCULATED  |       | 91.3  | 91.9  | 93.7  | 97.3  | 99.8  | 102.2 | 104.6 | 105.9 | 105.8 | 101.0 | 99.3  |   |   |   |   |   | 126.6 |
| PNL                 |       | 104.1 | 104.6 | 106.5 | 109.9 | 112.5 | 114.2 | 116.5 | 117.2 | 117.3 | 114.1 | 111.0 |   |   |   |   |   |       |

MODEL SOUND PRESSURE LEVELS (59. DFG, F. 70 PERCENT REL. HUM. CAY)  
 ANGLE FROM INLET IN DEGREES (AND RADIAN)

PRNC. DATE - MONTH 3 DAY 12 HR. 16.3

|                    | 51.     | 62.     | 71.     | 81.     | 91.     | 101.    | 111.    | 122.    | 133.    | 145.    | 159.    | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|------|------|------|------|------|
| FREQ.              | (10.82) | (11.06) | (11.24) | (11.41) | (11.58) | (11.76) | (11.94) | (12.13) | (12.32) | (12.52) | (12.73) | 10.  | 110. | 110. | 110. | 110. | 110. |
| SIDELINE 200. FT.  | 50      |         |         |         |         |         |         |         |         |         |         |      |      |      |      |      |      |
| (60.96 M)          | 60      |         |         |         |         |         |         |         |         |         |         |      |      |      |      |      |      |
| VEHICLE R-55       | 100     | 45.1    | 49.4    | 50.8    | 51.5    | 52.1    | 52.2    | 52.4    | 52.1    | 54.1    | 57.0    | 57.6 |      |      |      |      |      |
| CON.FIG (45-46-1)  | 125     | 51.8    | 55.8    | 56.0    | 56.2    | 55.5    | 55.4    | 56.1    | 57.3    | 56.5    | 57.4    | 56.9 |      |      |      |      |      |
| LOC SCHENECTADY    | 160     | 50.2    | 52.0    | 52.4    | 54.1    | 54.2    | 54.5    | 56.5    | 56.9    | 57.3    | 58.3    | 56.7 |      |      |      |      |      |
| DATE 1/17/75       | 200     | 49.6    | 50.4    | 52.1    | 51.5    | 55.1    | 57.2    | 57.4    | 58.1    | 57.7    | 58.9    | 57.4 |      |      |      |      |      |
| RUN 56/5           | 250     | 53.2    | 54.8    | 57.7    | 58.2    | 58.5    | 59.1    | 60.3    | 60.7    | 60.1    | 59.7    | 57.0 |      |      |      |      |      |
| TAPE               | 315     | 54.4    | 55.5    | 57.4    | 58.3    | 58.4    | 58.8    | 58.5    | 58.4    | 58.0    | 57.6    | 55.5 |      |      |      |      |      |
| BAR 30.2 MG        | 400     | 52.6    | 53.6    | 55.1    | 56.3    | 56.3    | 57.0    | 57.4    | 57.8    | 58.9    | 57.2    | 54.8 |      |      |      |      |      |
| (01890. N/M2)      | 500     | 50.7    | 51.8    | 53.2    | 54.2    | 55.4    | 56.4    | 56.3    | 58.4    | 57.3    | 58.5    | 53.3 |      |      |      |      |      |
| TAMB 30. DEG F     | 630     | 53.1    | 53.9    | 56.1    | 57.9    | 58.4    | 59.8    | 60.7    | 60.3    | 58.9    | 57.4    | 52.8 |      |      |      |      |      |
| (1272. DEG K)      | 800     | 52.7    | 54.5    | 55.3    | 57.5    | 58.3    | 59.7    | 60.3    | 60.4    | 59.0    | 57.1    | 52.0 |      |      |      |      |      |
| THET 21. DEG F     | 1000    | 51.8    | 53.4    | 54.4    | 57.4    | 58.2    | 60.1    | 61.4    | 61.3    | 60.3    | 57.2    | 50.7 |      |      |      |      |      |
| (1257. DEG K)      | 1250    | 52.4    | 53.5    | 56.0    | 58.3    | 59.9    | 62.0    | 62.8    | 62.1    | 60.8    | 57.2    | 50.3 |      |      |      |      |      |
| MACT 0.42 G/M3     | 1500    | 54.0    | 55.3    | 56.8    | 59.0    | 61.2    | 62.8    | 64.6    | 64.4    | 62.4    | 57.4    | 49.1 |      |      |      |      |      |
| (00042 KG/M3)      | 2000    | 58.7    | 58.9    | 61.3    | 65.0    | 66.5    | 68.6    | 70.1    | 70.9    | 68.9    | 62.8    | 53.9 |      |      |      |      |      |
| NFA 7663. RPM      | 2500    | 49.2    | 50.9    | 53.6    | 57.1    | 59.9    | 61.2    | 62.7    | 61.9    | 59.6    | 52.8    | 46.1 |      |      |      |      |      |
| ( 802. RAD/SEC)    | 3150    | 49.3    | 52.3    | 54.5    | 59.0    | 62.2    | 63.6    | 63.0    | 63.8    | 62.0    | 58.8    | 46.6 |      |      |      |      |      |
| NFK 7887. RPM      | 4000    | 53.2    | 56.0    | 59.0    | 63.8    | 67.1    | 68.4    | 69.0    | 69.7    | 67.2    | 60.7    | 51.2 |      |      |      |      |      |
| ( 826. RAD/SEC)    | 5000    | 50.8    | 52.9    | 56.7    | 61.5    | 64.8    | 67.5    | 69.1    | 68.5    | 67.1    | 59.4    | 48.0 |      |      |      |      |      |
| NPD 8823. RPM      | 6300    | 51.4    | 53.6    | 57.8    | 62.9    | 65.9    | 68.2    | 71.6    | 69.9    | 68.5    | 58.8    | 47.4 |      |      |      |      |      |
| ( 924. RAD/SEC)    | 8000    | 47.8    | 51.2    | 55.3    | 61.1    | 63.9    | 66.4    | 67.8    | 67.8    | 65.0    | 56.0    | 43.6 |      |      |      |      |      |
| NO. OF BLADES 15   | 10000   | 44.7    | 48.4    | 52.1    | 58.5    | 61.5    | 64.1    | 65.6    | 65.6    | 62.1    | 52.7    | 39.4 |      |      |      |      |      |
| FAN TIP SPEED      | 12500   | 41.4    | 44.3    | 48.6    | 54.4    | 58.5    | 61.3    | 62.1    | 62.3    | 59.3    | 48.4    | 32.5 |      |      |      |      |      |
| 689. FT/SEC        | 18000   | 34.2    | 38.3    | 42.8    | 49.0    | 52.6    | 55.2    | 57.0    | 52.2    | 40.2    | 22.5    |      |      |      |      |      |      |
|                    | 25000   | 27.4    | 31.8    | 37.3    | 43.7    | 47.5    | 49.9    | 51.4    | 52.1    | 46.4    | 32.2    |      |      |      |      |      |      |
|                    | 31500   | 3.2     | 10.2    | 17.5    | 25.6    | 28.4    | 31.4    | 31.3    | 29.0    | 20.2    | 0.3     |      |      |      |      |      |      |
|                    | 40000   |         |         |         | 6.3     | 10.0    | 12.1    | 11.7    | 6.7     |         |         |      |      |      |      |      |      |
|                    | 50000   |         |         |         |         |         |         |         |         |         |         |      |      |      |      |      |      |
|                    | 63000   |         |         |         |         |         |         |         |         |         |         |      |      |      |      |      |      |
|                    | 80000   |         |         |         |         |         |         |         |         |         |         |      |      |      |      |      |      |
| OVERALL CALCULATED |         | 65.6    | 67.2    | 69.4    | 72.8    | 75.0    | 76.9    | 78.4    | 78.3    | 76.4    | 71.3    | 66.7 |      |      |      |      |      |
| PNDP               |         | 78.2    | 79.6    | 82.2    | 86.1    | 88.8    | 90.3    | 91.6    | 91.6    | 89.6    | 83.9    | 76.0 |      |      |      |      |      |

|                     | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 155.   | 0.    | 0.  | 0.  | 0.  | 0.  | 0.   | PWL   |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|-----|------|-------|
| FREQ.               | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.   | (0. | (0. | (0. | (0. | (0.) |       |
| RADIAL 17. FT.      | 50     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |      |       |
| ( S. M)             | 63     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |      |       |
| VEHICLE R-55        | 80     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |      |       |
| CONFIG 4-75-13      | 100    | 71.7   | 73.7   | 76.4   | 78.0   | 78.1   | 76.1   | 72.5   | 68.8   | 71.7   | 74.5   | 76.9  |     |     |     |     |      | 109.3 |
| LOC SCHENECTADY     | 125    | 66.7   | 69.4   | 71.9   | 69.7   | 70.6   | 67.9   | 67.0   | 71.5   | 72.2   | 72.3   | 75.4  |     |     |     |     |      | 104.6 |
| DATE 1/17/75        | 160    | 64.5   | 64.7   | 65.4   | 66.5   | 66.1   | 66.2   | 64.5   | 70.0   | 72.0   | 73.8   | 75.9  |     |     |     |     |      | 103.6 |
| RUN 5616            | 230    | 63.7   | 64.2   | 64.7   | 66.0   | 67.5   | 68.9   | 69.5   | 71.2   | 72.7   | 74.4   | 76.7  |     |     |     |     |      | 104.4 |
| TAPE                | 250    | 67.2   | 67.9   | 68.6   | 69.5   | 69.8   | 70.4   | 71.5   | 71.7   | 72.7   | 74.0   | 75.4  |     |     |     |     |      | 105.2 |
| BAR 30.2 HG         | 315    | 69.5   | 70.7   | 70.9   | 71.5   | 71.6   | 71.9   | 71.8   | 72.5   | 73.0   | 73.8   | 74.7  |     |     |     |     |      | 106.0 |
| (01890. N/M2)       | 400    | 66.5   | 67.7   | 67.9   | 69.2   | 69.3   | 69.9   | 71.0   | 71.5   | 72.2   | 73.0   | 73.9  |     |     |     |     |      | 104.5 |
| YAWB 30. DEG F      | 500    | 66.0   | 67.2   | 67.7   | 69.0   | 67.3   | 70.4   | 71.3   | 72.5   | 73.5   | 74.0   | 73.9  |     |     |     |     |      | 105.0 |
| (272. DEG K)        | 630    | 69.8   | 70.2   | 71.4   | 72.5   | 73.1   | 74.2   | 75.0   | 76.3   | 76.0   | 75.8   | 74.9  |     |     |     |     |      | 108.1 |
| TACT 21. DEG F      | 800    | 69.6   | 70.0   | 70.2   | 71.5   | 72.6   | 74.2   | 74.8   | 76.3   | 77.2   | 76.8   | 74.7  |     |     |     |     |      | 106.2 |
| (267. DEG K)        | 1000   | 68.1   | 69.5   | 69.7   | 72.0   | 73.3   | 76.2   | 77.5   | 78.5   | 79.7   | 79.8   | 74.7  |     |     |     |     |      | 110.1 |
| HACT 0.42 GM/MT     | 1250   | 75.6   | 74.7   | 75.7   | 79.3   | 80.6   | 83.5   | 84.5   | 85.5   | 86.2   | 87.6   | 80.2  |     |     |     |     |      | 117.1 |
| (-0.0042 KG/M3)     | 1600   | 72.9   | 72.2   | 72.7   | 75.0   | 78.4   | 80.0   | 81.7   | 82.2   | 82.7   | 82.3   | 76.2  |     |     |     |     |      | 113.6 |
| NFA 5366. RPM       | 2000   | 69.9   | 70.8   | 71.6   | 74.6   | 75.9   | 77.7   | 79.5   | 80.2   | 80.5   | 80.3   | 76.2  |     |     |     |     |      | 111.6 |
| ( 562. RAD/SEC)     | 2500   | 67.8   | 69.3   | 71.1   | 73.1   | 75.4   | 77.7   | 81.2   | 82.4   | 82.7   | 79.1   | 73.4  |     |     |     |     |      | 112.5 |
| NPK 5523. RPM       | 3150   | 66.3   | 68.7   | 69.6   | 73.4   | 75.9   | 78.7   | 79.9   | 81.4   | 82.7   | 82.3   | 75.3  |     |     |     |     |      | 112.6 |
| ( 578. RAD/SEC)     | 4000   | 70.2   | 71.4   | 71.7   | 76.3   | 79.8   | 83.4   | 83.5   | 85.5   | 86.6   | 85.4   | 79.0  |     |     |     |     |      | 116.5 |
| NPD 8823. RPM       | 5000   | 68.4   | 69.1   | 70.6   | 74.5   | 77.8   | 81.8   | 84.4   | 85.9   | 85.7   | 84.4   | 77.4  |     |     |     |     |      | 116.0 |
| ( 924. RAD/SEC)     | 6300   | 68.1   | 69.3   | 70.7   | 74.4   | 77.8   | 81.7   | 83.9   | 85.7   | 85.9   | 84.3   | 77.7  |     |     |     |     |      | 115.9 |
| NO. OF BLADES 15    | 8000   | 65.4   | 68.1   | 69.9   | 73.9   | 77.1   | 80.5   | 83.0   | 84.8   | 85.7   | 83.4   | 76.9  |     |     |     |     |      | 113.3 |
| FAN TIP SPEED 16000 | 10000  | 65.0   | 66.5   | 68.3   | 73.6   | 75.8   | 80.2   | 82.2   | 84.4   | 85.6   | 82.2   | 75.7  |     |     |     |     |      | 114.9 |
| 488. FT/SEC         | 12500  | 64.5   | 65.5   | 66.9   | 71.2   | 75.0   | 78.6   | 81.3   | 83.5   | 84.7   | 81.9   | 75.2  |     |     |     |     |      | 114.2 |
|                     | 20000  | 62.4   | 63.6   | 65.0   | 69.3   | 73.1   | 76.7   | 79.3   | 83.0   | 83.4   | 79.9   | 73.9  |     |     |     |     |      | 113.2 |
|                     | 25000  | 60.7   | 62.0   | 63.5   | 69.3   | 72.6   | 76.0   | 78.1   | 81.5   | 82.4   | 76.9   | 72.5  |     |     |     |     |      | 112.5 |
|                     | 31500  | 59.7   | 60.6   | 61.9   | 67.3   | 70.6   | 74.1   | 76.0   | 79.3   | 79.8   | 76.4   | 70.3  |     |     |     |     |      | 110.8 |
|                     | 40000  | 57.5   | 58.9   | 60.1   | 66.8   | 69.9   | 73.7   | 75.0   | 78.6   | 79.2   | 76.1   | 68.2  |     |     |     |     |      | 111.1 |
|                     | 50000  | 55.9   | 55.9   | 57.9   | 62.5   | 65.7   | 69.3   | 71.9   | 74.0   | 75.1   | 72.4   | 62.2  |     |     |     |     |      | 108.4 |
|                     | 63000  | 56.5   | 54.8   | 57.4   | 58.8   | 60.6   | 63.9   | 67.2   | 67.8   | 68.7   | 67.5   | 57.5  |     |     |     |     |      | 104.7 |
|                     | 80000  | 56.4   | 53.3   | 56.9   | 55.8   | 57.0   | 58.4   | 60.6   | 60.6   | 61.1   | 60.4   | 54.9  |     |     |     |     |      | 101.4 |
|                     |        | 58.0   | 58.8   | 56.2   | 55.1   | 55.1   | 55.1   | 56.0   | 55.4   | 55.3   | 54.5   | 53.6  |     |     |     |     |      | 102.6 |
| OVERALL MEASURED    |        |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |      |       |
| OVERALL CALCULATED  |        | 82.8   | 83.5   | 84.7   | 87.4   | 89.5   | 92.2   | 93.9   | 95.6   | 96.3   | 95.0   | 89.9  |     |     |     |     |      | 126.7 |
| PNDR                |        | 94.4   | 95.4   | 96.3   | 99.7   | 102.3  | 105.2  | 106.2  | 107.8  | 108.6  | 107.7  | 102.4 |     |     |     |     |      |       |

MODEL SOUND PRESSURE LEVELS (59. DBG. F. 70 PERCENT REL. HUM. DAY)  
 PRGC. DATE - MONTH 3 DAY 12 MR. 16.3  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.                     | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0    | 0    | 0    | 0    | 0    | 0    |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
|                           | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0    | 0    | 0    | 0    | 0    | 0    |
| SIDELINE 200. FT.         | 50     | 61     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0    | 0    | 0    | 0    | 0    | 0    |
| (60.96 M)                 | 61     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0      | 0    | 0    | 0    | 0    | 0    | 0    |
| VEHICLE R-55              | 100    | 125    | 150    | 175    | 200    | 225    | 250    | 275    | 300    | 325    | 350    | 0    | 0    | 0    | 0    | 0    | 0    |
| CONFIG 35-5               | 125    | 150    | 175    | 200    | 225    | 250    | 275    | 300    | 325    | 350    | 0      | 0    | 0    | 0    | 0    | 0    | 0    |
| LCC SCHEMECTADY           | 150    | 175    | 200    | 225    | 250    | 275    | 300    | 325    | 350    | 0      | 0      | 0    | 0    | 0    | 0    | 0    | 0    |
| DATE 1/17/75              | 200    | 225    | 250    | 275    | 300    | 325    | 350    | 0      | 0      | 0      | 0      | 0    | 0    | 0    | 0    | 0    | 0    |
| RUN 58/6                  | 250    | 314    | 430    | 500    | 630    | 800    | 1000   | 1250   | 1500   | 1750   | 2000   | 2500 | 3150 | 4000 | 5000 | 6300 | 8000 |
| TAPE                      | 430    | 500    | 630    | 800    | 1000   | 1250   | 1500   | 1750   | 2000   | 2500   | 3150   | 4000 | 5000 | 6300 | 8000 | 0    | 0    |
| BAR 30.2 HG               | 430    | 500    | 630    | 800    | 1000   | 1250   | 1500   | 1750   | 2000   | 2500   | 3150   | 4000 | 5000 | 6300 | 8000 | 0    | 0    |
| (101450. N/M2)            | 500    | 630    | 800    | 1000   | 1250   | 1500   | 1750   | 2000   | 2500   | 3150   | 4000   | 5000 | 6300 | 8000 | 0    | 0    | 0    |
| TAHS 30. DEG F            | 630    | 800    | 1000   | 1250   | 1500   | 1750   | 2000   | 2500   | 3150   | 4000   | 5000   | 6300 | 8000 | 0    | 0    | 0    | 0    |
| (272. DEG K)              | 800    | 1000   | 1250   | 1500   | 1750   | 2000   | 2500   | 3150   | 4000   | 5000   | 6300   | 8000 | 0    | 0    | 0    | 0    | 0    |
| TACT 21. DEG F            | 1000   | 1250   | 1500   | 1750   | 2000   | 2500   | 3150   | 4000   | 5000   | 6300   | 8000   | 0    | 0    | 0    | 0    | 0    | 0    |
| (1267. DEG K)             | 1250   | 1500   | 1750   | 2000   | 2500   | 3150   | 4000   | 5000   | 6300   | 8000   | 0      | 0    | 0    | 0    | 0    | 0    | 0    |
| MACT 0.42 CM/H3           | 1500   | 2000   | 2500   | 3150   | 4000   | 5000   | 6300   | 8000   | 0      | 0      | 0      | 0    | 0    | 0    | 0    | 0    | 0    |
| (100042 KG/M3)            | 2000   | 2500   | 3150   | 4000   | 5000   | 6300   | 8000   | 0      | 0      | 0      | 0      | 0    | 0    | 0    | 0    | 0    | 0    |
| NFA 5366. RPM             | 2500   | 3150   | 4000   | 5000   | 6300   | 8000   | 0      | 0      | 0      | 0      | 0      | 0    | 0    | 0    | 0    | 0    | 0    |
| (582. RAD/SEC)            | 3150   | 4000   | 5000   | 6300   | 8000   | 0      | 0      | 0      | 0      | 0      | 0      | 0    | 0    | 0    | 0    | 0    | 0    |
| NFK 5523. RPM             | 4000   | 5000   | 6300   | 8000   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0    | 0    | 0    | 0    | 0    | 0    |
| (578. RAD/SEC)            | 5000   | 6300   | 8000   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0    | 0    | 0    | 0    | 0    | 0    |
| NFD 6823. RPM             | 6300   | 8000   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0    | 0    | 0    | 0    | 0    | 0    |
| (924. RAD/SEC)            | 8000   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0    | 0    | 0    | 0    | 0    | 0    |
| NO. OF BLADES 15          | 10000  | 12500  | 15000  | 17500  | 20000  | 25000  | 31500  | 40000  | 50000  | 63000  | 80000  | 0    | 0    | 0    | 0    | 0    | 0    |
| PAN TIP SPEED 488. FT/SEC | 12500  | 15000  | 17500  | 20000  | 25000  | 31500  | 40000  | 50000  | 63000  | 80000  | 0      | 0    | 0    | 0    | 0    | 0    | 0    |
| OVERALL CALCULATED        | 57.5   | 59.3   | 61.3   | 64.0   | 65.8   | 67.9   | 68.8   | 69.0   | 67.9   | 64.7   | 56.8   | 0    | 0    | 0    | 0    | 0    | 0    |
| PNDP                      | 68.0   | 70.3   | 71.9   | 75.9   | 78.6   | 81.3   | 81.7   | 82.2   | 81.2   | 77.6   | 67.0   | 0    | 0    | 0    | 0    | 0    | 0    |



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MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    |             | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0°   | 0°  | 0°  | 0°  | 0°  | 0°  | PUL |       |       |
|--------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|-----|-------|-------|
|                    | FREQ.       | (0.97) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | (0. | (0. | (0. | (0. | (0. |     |       |       |
|                    | 50          |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |     |       |       |
|                    | 63          |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |     |       |       |
|                    | 80          |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |     |       |       |
| RADIAL             | 17. FT.     |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |     |       |       |
| ( 5. MI)           | 100         | 71.0   | 73.7   | 76.9   | 78.5   | 78.3   | 77.1   | 73.3   | 68.5   | 72.7   | 74.8   | 76.7   |      |     |     |     |     |     |     | 109.7 |       |
| VEHICLE            | R-54        | 124    | 65.5   | 68.9   | 71.7   | 70.0   | 70.6   | 68.4   | 67.5   | 71.3   | 72.2   | 73.3   | 75.4 |     |     |     |     |     |     | 104.8 |       |
| CONFIG             | 75-N        | 160    | 64.5   | 65.4   | 65.2   | 66.5   | 66.3   | 66.6   | 68.8   | 70.3   | 72.2   | 73.8   | 76.2 |     |     |     |     |     |     | 103.8 |       |
| LOC                | SCHENECTADY | 200    | 64.0   | 64.2   | 65.2   | 66.2   | 67.3   | 68.9   | 70.0   | 71.2   | 72.2   | 74.5   | 76.4 |     |     |     |     |     |     | 104.3 |       |
| DATE               | 1/17/75     | 250    | 67.5   | 68.2   | 68.9   | 69.7   | 69.8   | 70.1   | 71.3   | 72.2   | 72.7   | 73.5   | 75.4 |     |     |     |     |     |     | 105.2 |       |
| RUN                | 57/1        | 315    | 69.5   | 70.7   | 70.4   | 71.7   | 71.3   | 71.9   | 71.8   | 71.8   | 72.5   | 73.3   | 74.9 |     |     |     |     |     |     | 105.9 |       |
| TAPE               |             | 400    | 65.8   | 67.7   | 68.4   | 69.5   | 69.6   | 70.4   | 70.5   | 71.8   | 72.5   | 73.0   | 74.4 |     |     |     |     |     |     | 104.7 |       |
| BAR                | 30.2 MC     | 500    | 65.1   | 67.0   | 67.2   | 68.5   | 68.8   | 69.7   | 71.3   | 72.5   | 73.7   | 74.0   | 74.2 |     |     |     |     |     |     | 104.9 |       |
| (01890. N/M2)      | 630         | 69.6   | 70.0   | 71.4   | 72.5   | 72.6   | 73.7   | 75.5   | 76.0   | 76.0   | 76.3   | 74.4   |      |     |     |     |     |     |     | 106.0 |       |
| TANδ               | 31. DEG F   | 800    | 69.3   | 70.0   | 70.2   | 71.5   | 72.4   | 73.7   | 75.3   | 76.0   | 77.0   | 77.3   | 74.4 |     |     |     |     |     |     | 108.2 |       |
| (2/3. DEG K)       | 1030        | 67.6   | 68.5   | 68.7   | 71.0   | 72.4   | 75.0   | 76.8   | 76.5   | 80.0   | 80.1   | 74.9   |      |     |     |     |     |     |     | 109.9 |       |
| THEY               | 22. DEG F   | 1250   | 73.4   | 72.3   | 73.4   | 76.6   | 79.4   | 81.5   | 83.0   | 84.0   | 85.7   | 86.3   | 79.7 |     |     |     |     |     |     | 115.8 |       |
| (268. DEG K)       | 1600        | 70.1   | 70.0   | 71.2   | 74.1   | 75.9   | 78.5   | 79.8   | 80.5   | 81.0   | 81.6   | 75.4   |      |     |     |     |     |     |     | 112.8 |       |
| HACT               | 0.55 GH/M3  | 2000   | 65.9   | 66.8   | 67.7   | 70.2   | 71.9   | 73.3   | 75.5   | 76.0   | 76.5   | 76.3   | 72.7 |     |     |     |     |     |     | 107.5 |       |
| (.00955 KG/M3)     | 2500        | 65.4   | 70.0   | 71.1   | 73.7   | 77.9   | 80.8   | 81.7   | 84.5   | 86.5   | 86.8   | 84.8   | 77.9 |     |     |     |     |     |     | 115.3 |       |
| NFA                | 5175. RPM   | 3150   | 67.8   | 69.8   | 70.6   | 72.2   | 77.9   | 80.7   | 81.4   | 82.9   | 84.7   | 84.6   | 77.1 |     |     |     |     |     |     | 114.5 |       |
| ( 563. RAD/SEC)    | 4000        | 69.2   | 71.9   | 72.7   | 76.4   | 80.9   | 84.1   | 85.6   | 87.3   | 88.8   | 88.2   | 80.8   |      |     |     |     |     |     |     | 118.8 |       |
| NFK                | 5526. RPM   | 5000   | 63.7   | 65.6   | 71.4   | 75.6   | 79.6   | 82.8   | 85.5   | 85.9   | 86.8   | 84.9   | 78.2 |     |     |     |     |     |     | 116.8 |       |
| ( 579. RAD/SEC)    | 6300        | 67.6   | 69.6   | 71.5   | 75.4   | 79.3   | 82.0   | 84.7   | 85.4   | 86.9   | 86.3   | 77.7   |      |     |     |     |     |     |     | 116.4 |       |
| NFD                | 8823. RPM   | 8000   | 64.2   | 67.4   | 68.8   | 72.7   | 75.7   | 79.4   | 81.8   | 83.1   | 83.7   | 80.4   | 75.2 |     |     |     |     |     |     | 113.8 |       |
| ( 924. RAD/SEC)    | 10000       | 65.3   | 65.3   | 68.1   | 73.1   | 77.1   | 80.5   | 82.5   | 84.7   | 86.2   | 87.8   | 78.5   |      |     |     |     |     |     |     | 115.3 |       |
| NO. OF BLADES      | 15          | 12500  | 64.5   | 66.0   | 66.7   | 71.7   | 75.5   | 78.9   | 81.6   | 83.8   | 85.7   | 81.5   | 75.5 |     |     |     |     |     |     | 114.6 |       |
| FAN TIP SPEED      | 18000       | 20000  | 62.5   | 64.7   | 64.3   | 69.3   | 73.7   | 76.4   | 79.4   | 82.3   | 83.7   | 80.0   | 74.4 |     |     |     |     |     |     | 113.1 |       |
| 469. FT/SEC        | 25000       | 25000  | 67.8   | 64.3   | 63.1   | 68.6   | 72.1   | 75.5   | 78.2   | 81.0   | 83.2   | 79.7   | 72.8 |     |     |     |     |     |     | 112.6 |       |
|                    | 31500       | 31500  | 59.3   | 62.9   | 61.9   | 67.8   | 71.4   | 74.1   | 76.8   | 78.6   | 80.1   | 77.5   | 70.4 |     |     |     |     |     |     | 111.0 |       |
|                    | 43000       | 43000  | 57.8   | 61.7   | 59.9   | 66.9   | 70.5   | 73.6   | 75.3   | 77.9   | 79.0   | 75.6   | 68.3 |     |     |     |     |     |     | 110.9 |       |
|                    | 50000       | 50000  | 55.9   | 57.0   | 57.7   | 62.3   | 66.0   | 69.4   | 72.2   | 73.3   | 75.2   | 72.2   | 61.0 |     |     |     |     |     |     | 108.3 |       |
|                    | 63000       | 63000  | 58.4   | 57.2   | 57.2   | 58.2   | 61.5   | 64.3   | 67.2   | 67.4   | 69.0   | 67.3   | 57.6 |     |     |     |     |     |     | 104.8 |       |
|                    | 83000       | 83000  | 56.8   | 54.7   | 57.8   | 55.6   | 56.6   | 58.5   | 60.5   | 60.2   | 61.9   | 60.7   | 55.0 |     |     |     |     |     |     | 101.6 |       |
|                    |             |        | 57.3   | 56.4   | 56.3   | 54.9   | 55.2   | 55.2   | 56.1   | 55.2   | 55.4   | 54.4   | 53.4 |     |     |     |     |     |     | 102.4 |       |
| OVERALL MEASURED   |             |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |     |       |       |
| OVERALL CALCULATED |             | 81.9   | 83.1   | 84.3   | 87.8   | 89.8   | 92.3   | 94.1   | 95.6   | 97.8   | 98.2   | 98.2   |      |     |     |     |     |     |     |       | 136.9 |
| PND8               |             | 93.6   | 95.4   | 96.4   | 99.5   | 102.9  | 105.8  | 107.0  | 108.5  | 109.7  | 108.2  | 103.8  |      |     |     |     |     |     |     |       |       |

ORIGINAL PAGE IS  
OF POOR QUALITY

PHCC, DATE - MONTH 3 DAY 12 MR. 1960  
 MODEL SOUND PRESSURE LEVELS (50, LFG, F, 70 PERCENT REL. HUM, EAV)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

| PARAMETER                 | 52     | 62     | 71     | 71     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0   | 0   | 0   | 0   | 0   | 0   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|
| FEED                      | (0.62) | (1.04) | (1.24) | (1.41) | (1.55) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0   | 0   | 0   | 0   | 0   | 0   |
| SIDELINE 200. FT.         | 50     | 63     | 80     | 100    | 120    | 140    | 160    | 180    | 200    | 220    | 240    | 260 | 280 | 300 | 320 | 340 | 360 |
| VEHICLE (60.96 M)         | 47.3   | 51.3   | 54.8   | 57.4   | 58.7   | 55.4   | 51.1   | 45.4   | 44.3   | 40.2   | 40.6   |     |     |     |     |     |     |
| CONFIG (P-55)             | 47.7   | 46.1   | 49.5   | 48.2   | 48.9   | 46.6   | 45.2   | 44.1   | 47.7   | 45.6   | 45.2   |     |     |     |     |     |     |
| LGC SCHEMECTADY           | 43.6   | 42.5   | 42.9   | 44.5   | 44.5   | 44.8   | 46.4   | 47.0   | 47.6   | 47.9   | 45.7   |     |     |     |     |     |     |
| DATE 1/17/75              | 49.0   | 41.2   | 42.9   | 44.3   | 45.5   | 46.9   | 47.6   | 47.9   | 47.9   | 47.6   | 45.7   |     |     |     |     |     |     |
| RUN 57/1                  | 47.4   | 45.1   | 46.5   | 47.7   | 47.9   | 48.1   | 48.7   | 48.6   | 47.9   | 46.4   | 44.5   |     |     |     |     |     |     |
| TAPE                      | 47.5   | 47.5   | 47.9   | 49.6   | 49.3   | 49.8   | 49.2   | 48.2   | 47.5   | 46.0   | 43.8   |     |     |     |     |     |     |
| BAR 30.2 MG               | 42.5   | 44.4   | 45.6   | 47.3   | 47.5   | 48.2   | 47.8   | 48.1   | 47.4   | 45.8   | 43.1   |     |     |     |     |     |     |
| (101890. N/12)            | 41.7   | 43.6   | 44.5   | 46.3   | 46.7   | 47.4   | 48.5   | 48.8   | 48.5   | 46.5   | 42.6   |     |     |     |     |     |     |
| TAMB 31. DEG F            | 45.1   | 46.5   | 48.7   | 50.2   | 50.4   | 51.3   | 52.6   | 52.2   | 50.8   | 48.6   | 42.6   |     |     |     |     |     |     |
| (1273. DEG K)             | 44.7   | 46.4   | 47.3   | 49.1   | 50.0   | 51.2   | 52.2   | 52.0   | 51.5   | 49.3   | 42.3   |     |     |     |     |     |     |
| THEY 22. DEG F            | 44.7   | 45.7   | 48.4   | 49.9   | 52.3   | 53.7   | 54.4   | 54.3   | 51.9   | 42.5   |        |     |     |     |     |     |     |
| (1268. DEG K)             | 48.4   | 48.3   | 50.3   | 53.9   | 56.8   | 58.7   | 59.7   | 59.7   | 59.6   | 57.9   | 46.9   |     |     |     |     |     |     |
| MACY 0.55 G/M3            | 41.9   | 45.9   | 47.8   | 51.2   | 53.2   | 55.6   | 56.0   | 56.0   | 54.9   | 52.9   | 42.2   |     |     |     |     |     |     |
| (100055 KG/M3)            | 49.4   | 42.5   | 44.1   | 47.1   | 47.0   | 50.1   | 51.9   | 51.3   | 50.1   | 47.3   | 38.9   |     |     |     |     |     |     |
| NFA 5375. RPM             | 42.7   | 45.5   | 47.4   | 50.4   | 54.8   | 57.4   | 57.8   | 59.5   | 59.9   | 55.5   | 43.7   |     |     |     |     |     |     |
| (563. RAD/SEC)            | 41.6   | 44.9   | 46.6   | 50.6   | 54.5   | 57.1   | 57.2   | 57.7   | 57.7   | 54.7   | 42.2   |     |     |     |     |     |     |
| NFK 5526. RPM             | 42.7   | 46.6   | 48.3   | 52.4   | 57.0   | 60.1   | 60.9   | 61.5   | 61.0   | 55.4   | 44.0   |     |     |     |     |     |     |
| (579. RAD/SEC)            | 41.8   | 44.0   | 46.7   | 51.3   | 55.7   | 58.6   | 60.6   | 59.9   | 58.8   | 53.9   | 41.5   |     |     |     |     |     |     |
| NFD 8823. RPM             | 37.9   | 43.2   | 46.1   | 50.4   | 54.6   | 57.0   | 59.0   | 58.6   | 58.0   | 52.0   | 39.2   |     |     |     |     |     |     |
| (924. RAD/SEC)            | 35.0   | 39.8   | 41.4   | 46.7   | 49.4   | 53.7   | 55.0   | 54.9   | 53.3   | 46.2   | 33.9   |     |     |     |     |     |     |
| NO. OF BLADES 15          | 34.2   | 37.6   | 39.9   | 45.6   | 49.7   | 52.9   | 54.0   | 54.7   | 53.7   | 49.9   | 31.3   |     |     |     |     |     |     |
| FAN TIP SPEED 469. FT/SEC | 33.6   | 34.2   | 36.2   | 42.0   | 46.0   | 49.1   | 50.6   | 51.2   | 50.1   | 48.8   | 24.6   |     |     |     |     |     |     |
| 25000                     | 23.9   | 28.7   | 29.9   | 35.9   | 40.5   | 43.3   | 44.7   | 45.4   | 43.6   | 39.7   | 14.0   |     |     |     |     |     |     |
| 31500                     | 16.2   | 22.9   | 23.7   | 30.3   | 34.2   | 37.2   | 38.4   | 38.5   | 39.9   | 23.4   |        |     |     |     |     |     |     |
| 40000                     | 6.0    | 13.7   | 15.4   | 22.7   | 26.8   | 28.9   | 29.7   | 27.9   | 23.3   | 9.6    |        |     |     |     |     |     |     |
| 50000                     |        | 1.1    | 2.8    | 11.7   | 15.9   | 18.2   | 17.5   | 15.4   | 8.2    |        |        |     |     |     |     |     |     |
| 63000                     |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |
| 80000                     |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |
| OVERALL CALCULATED        | 56.6   | 58.8   | 61.0   | 63.6   | 65.9   | 68.0   | 68.6   | 69.0   | 68.6   | 64.9   | 56.6   |     |     |     |     |     |     |
| PDR                       | 67.2   | 70.2   | 72.1   | 75.6   | 79.2   | 81.7   | 82.5   | 82.9   | 82.3   | 77.9   | 67.6   |     |     |     |     |     |     |

560

PHASE DATE = MONTH 3 DAY 12 HR. 16.0  
 MODEL SOUND PRESSURE LEVELS 150. DB, F. 70 PERCENT REL. HUM. EAV)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.  | 0.   | 0. | 0. | 0. | 0. | 0. | PHI   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|----|----|----|----|----|-------|
| FREQ. (0.32)       | (1.08) | (1.24) | (1.41) | (1.55) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.   | 0.   | 0. | 0. | 0. | 0. | 0. | PHI   |
| RADIAL 17. FT.     | 70     |        |        |        |        |        |        |        |        |        |       |      |    |    |    |    |    |       |
| ( 5. M)            | 63     |        |        |        |        |        |        |        |        |        |       |      |    |    |    |    |    |       |
| VEHICLE            | 100    | 75.5   | 72.9   | 74.4   | 77.7   | 74.4   | 70.9   | 69.8   | 69.4   | 72.5   | 74.6  | 80.1 |    |    |    |    |    | 106.7 |
| CONFIG             | 125    | 73.0   | 70.1   | 72.4   | 71.9   | 72.1   | 70.9   | 71.6   | 74.2   | 74.7   | 76.6  | 79.1 |    |    |    |    |    | 107.3 |
| LCC SCHENECTADY    | 160    | 63.3   | 68.9   | 69.1   | 69.9   | 70.1   | 69.9   | 73.4   | 73.4   | 75.2   | 78.1  | 79.6 |    |    |    |    |    | 107.4 |
| DATE 1/17/75       | 200    | 69.2   | 68.4   | 69.9   | 69.7   | 70.9   | 73.7   | 74.9   | 75.7   | 77.0   | 76.6  | 81.1 |    |    |    |    |    | 109.0 |
| RUN 57/2           | 250    | 73.2   | 71.4   | 72.1   | 72.3   | 73.6   | 73.4   | 74.9   | 75.6   | 76.2   | 79.3  | 79.0 |    |    |    |    |    | 109.9 |
| TAPE               | 315    | 72.8   | 73.4   | 73.6   | 74.7   | 74.4   | 75.2   | 76.4   | 75.9   | 76.2   | 77.8  | 79.4 |    |    |    |    |    | 109.0 |
| BAR 30.2 MG        | 400    | 73.3   | 70.6   | 71.2   | 72.5   | 72.6   | 72.7   | 74.4   | 74.9   | 75.5   | 77.1  | 78.4 |    |    |    |    |    | 108.1 |
| (01890. N/12)      | 500    | 69.1   | 69.9   | 70.4   | 71.7   | 72.2   | 73.5   | 74.9   | 75.9   | 76.5   | 77.9  | 77.9 |    |    |    |    |    | 108.3 |
| TAMB 31. DEG F     | 600    | 72.7   | 72.9   | 74.2   | 75.2   | 75.7   | 77.0   | 78.4   | 78.9   | 79.0   | 79.4  | 77.6 |    |    |    |    |    | 111.0 |
| (273. DEG K)       | 800    | 72.7   | 72.9   | 73.2   | 74.2   | 75.2   | 76.0   | 77.6   | 78.4   | 79.3   | 79.9  | 77.6 |    |    |    |    |    | 110.7 |
| T-ET 22. DEG F     | 1000   | 73.4   | 71.7   | 71.9   | 74.2   | 75.2   | 77.0   | 79.4   | 80.7   | 82.0   | 81.9  | 77.4 |    |    |    |    |    | 112.1 |
| (248. DEG K)       | 1250   | 72.0   | 71.5   | 72.9   | 74.2   | 77.7   | 79.0   | 81.1   | 81.7   | 83.0   | 83.9  | 78.1 |    |    |    |    |    | 113.6 |
| MACT 0.55 CM/MS    | 1600   | 75.5   | 76.5   | 77.9   | 80.6   | 84.5   | 85.3   | 86.6   | 86.4   | 88.0   | 88.7  | 80.6 |    |    |    |    |    | 118.0 |
| (00055 KG/MS)      | 2000   | 69.5   | 69.7   | 71.4   | 73.5   | 75.0   | 77.3   | 78.6   | 79.2   | 79.5   | 78.7  | 75.6 |    |    |    |    |    | 110.7 |
| NFA 6147. RPH      | 2500   | 69.7   | 70.0   | 71.4   | 73.9   | 76.0   | 78.0   | 79.1   | 81.4   | 83.3   | 81.2  | 75.9 |    |    |    |    |    | 112.5 |
| ( 644. RPM/SEC)    | 3150   | 73.6   | 75.2   | 76.3   | 79.0   | 83.0   | 86.5   | 88.0   | 87.6   | 90.7   | 88.6  | 81.8 |    |    |    |    |    | 119.9 |
| NFK 6320. RPM      | 4000   | 72.0   | 73.3   | 75.0   | 80.1   | 82.4   | 85.2   | 87.9   | 88.2   | 89.1   | 87.0  | 80.5 |    |    |    |    |    | 119.2 |
| ( 682. RPM/SEC)    | 5000   | 73.7   | 74.3   | 76.1   | 81.8   | 84.1   | 86.3   | 88.1   | 90.1   | 90.8   | 87.7  | 81.4 |    |    |    |    |    | 120.6 |
| NFD 8823. RPM      | 6000   | 72.5   | 74.3   | 76.0   | 80.3   | 82.9   | 86.2   | 89.5   | 89.8   | 90.8   | 86.6  | 80.4 |    |    |    |    |    | 120.3 |
| ( 924. RPM/SEC)    | 8000   | 69.0   | 71.1   | 72.4   | 77.4   | 80.0   | 83.5   | 86.2   | 87.0   | 87.2   | 83.2  | 78.1 |    |    |    |    |    | 117.4 |
| NO. OF BLADES 15   | 10000  | 69.0   | 71.3   | 72.8   | 78.3   | 80.9   | 84.2   | 87.0   | 88.4   | 89.7   | 85.3  | 78.9 |    |    |    |    |    | 119.1 |
| FAN TIP SPEED      | 12500  | 69.1   | 70.2   | 72.4   | 77.2   | 80.6   | 82.7   | 85.7   | 88.0   | 88.5   | 84.3  | 78.5 |    |    |    |    |    | 118.3 |
| ( 337. FT/SEC)     | 15000  | 63.6   | 67.4   | 69.2   | 74.3   | 77.7   | 80.5   | 83.5   | 85.9   | 86.5   | 82.3  | 76.6 |    |    |    |    |    | 110.5 |
|                    | 20000  | 65.1   | 66.5   | 68.2   | 74.0   | 77.4   | 80.1   | 83.3   | 85.9   | 87.0   | 82.5  | 76.3 |    |    |    |    |    | 117.8 |
|                    | 25000  | 64.4   | 65.8   | 67.2   | 72.5   | 76.0   | 78.4   | 81.2   | 83.3   | 84.4   | 80.8  | 74.1 |    |    |    |    |    | 115.3 |
|                    | 31500  | 63.1   | 64.4   | 65.7   | 72.1   | 75.0   | 77.6   | 80.2   | 82.3   | 82.8   | 79.2  | 72.3 |    |    |    |    |    | 115.1 |
|                    | 40000  | 61.5   | 61.2   | 63.2   | 68.5   | 70.6   | 73.6   | 77.0   | 77.7   | 78.5   | 75.8  | 66.3 |    |    |    |    |    | 112.4 |
|                    | 50000  | 63.2   | 61.4   | 63.2   | 64.9   | 66.8   | 69.3   | 72.6   | 72.1   | 73.6   | 71.4  | 62.1 |    |    |    |    |    | 109.6 |
|                    | 63000  | 64.3   | 60.9   | 64.0   | 62.8   | 63.9   | 64.5   | 66.3   | 65.8   | 66.5   | 65.3  | 60.9 |    |    |    |    |    | 107.4 |
|                    | 80000  | 66.4   | 63.1   | 65.0   | 62.8   | 63.0   | 63.8   | 63.9   | 63.1   | 62.2   | 62.7  | 61.4 |    |    |    |    |    | 110.5 |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |       |      |    |    |    |    |    |       |
| OVERALL CALCULATED | 85.7   | 88.2   | 87.3   | 90.7   | 93.1   | 95.4   | 98.0   | 98.8   | 99.8   | 97.6   | 93.8  |      |    |    |    |    |    | 130.2 |
| PNDR               | 97.6   | 98.7   | 99.6   | 103.5  | 105.6  | 108.2  | 110.5  | 110.9  | 112.2  | 110.6  | 105.4 |      |    |    |    |    |    |       |

|                            | FREQ. | 53     | 63     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 159    | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---|---|---|---|---|
|                            |       | (1.02) | (1.05) | (1.24) | (1.41) | (1.54) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0 | 0 | 0 | 0 | 0 | 0 |
| SIDELINE 200. FT.          | 50    |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
| ( 60.96 M)                 | 63    |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
| VEHICLE                    | 120   | 52.9   | 53.2   | 52.3   | 53.5   | 52.9   | 49.2   | 47.4   | 46.3   | 48.1   | 50.0   | 50.1   |   |   |   |   |   |   |
| CCM/FIC                    | 125   | 46.3   | 47.3   | 50.2   | 50.2   | 50.5   | 49.1   | 49.3   | 51.0   | 50.2   | 49.9   | 48.3   |   |   |   |   |   |   |
| LOC SCHEMECTADY            | 160   | 44.4   | 46.0   | 46.7   | 48.1   | 48.4   | 48.0   | 51.7   | 50.2   | 50.6   | 51.3   | 49.1   |   |   |   |   |   |   |
| DATE 1/17/75               | 230   | 44.5   | 45.4   | 46.5   | 47.7   | 49.1   | 51.7   | 52.4   | 52.3   | 52.2   | 52.9   | 50.4   |   |   |   |   |   |   |
| RUN: 57/2                  | 250   | 46.7   | 48.3   | 49.7   | 50.9   | 51.7   | 51.4   | 52.3   | 52.2   | 51.4   | 51.2   | 49.0   |   |   |   |   |   |   |
| TAFE                       | 310   | 49.5   | 50.2   | 51.2   | 52.6   | 52.4   | 53.0   | 53.7   | 52.4   | 51.3   | 50.6   | 48.3   |   |   |   |   |   |   |
| BAR 30.2 HG                | 400   | 46.1   | 47.4   | 48.5   | 51.3   | 53.5   | 50.3   | 51.7   | 51.3   | 50.4   | 49.7   | 47.0   |   |   |   |   |   |   |
| (01890. N/M <sup>2</sup> ) | 500   | 44.7   | 46.5   | 47.7   | 49.5   | 53.3   | 51.2   | 52.1   | 52.2   | 51.3   | 50.3   | 46.3   |   |   |   |   |   |   |
| TAMB 31. DEG F             | 630   | 48.1   | 49.4   | 51.4   | 52.6   | 53.4   | 54.5   | 55.5   | 55.1   | 5.6    | 51.6   | 45.0   |   |   |   |   |   |   |
| (273. DEG K)               | 800   | 48.0   | 49.3   | 50.3   | 51.9   | 52.9   | 53.5   | 54.5   | 54.4   | 53.7   | 51.9   | 45.3   |   |   |   |   |   |   |
| T-FT 22. DEG F             | 1000  | 45.3   | 47.3   | 48.7   | 51.5   | 52.7   | 54.3   | 56.2   | 56.5   | 56.3   | 53.7   | 44.9   |   |   |   |   |   |   |
| (258. DEG M)               | 1250  | 47.3   | 47.5   | 49.8   | 53.3   | 55.1   | 56.2   | 57.8   | 57.4   | 57.1   | 55.5   | 45.3   |   |   |   |   |   |   |
| MACT 0.55 CM/MS            | 1600  | 51.2   | 52.4   | 54.6   | 57.7   | 61.7   | 62.3   | 63.1   | 61.0   | 61.0   | 59.9   | 47.4   |   |   |   |   |   |   |
| (00055 KG/M <sup>3</sup> ) | 2000  | 44.0   | 45.4   | 47.7   | 50.3   | 52.1   | 54.1   | 54.9   | 54.4   | 53.1   | 49.5   | 41.9   |   |   |   |   |   |   |
| MFA 6147. RPM              | 2500  | 43.3   | 45.5   | 47.7   | 50.5   | 52.3   | 54.7   | 55.2   | 56.4   | 56.6   | 51.9   | 41.7   |   |   |   |   |   |   |
| ( 644. RAD/SEC)            | 3150  | 47.5   | 50.4   | 52.3   | 54.3   | 56.6   | 62.9   | 63.8   | 62.6   | 63.7   | 58.6   | 46.9   |   |   |   |   |   |   |
| MFK 6320. RPM              | 4000  | 46.9   | 48.3   | 50.5   | 54.1   | 56.6   | 61.1   | 63.3   | 62.5   | 61.5   | 56.5   | 44.5   |   |   |   |   |   |   |
| ( 662. RAD/SEC)            | 5000  | 44.7   | 47.3   | 50.0   | 55.4   | 58.2   | 61.3   | 63.9   | 63.0   | 61.1   | 54.3   | 41.9   |   |   |   |   |   |   |
| MFD 8823. RPM              | 6000  | 49.8   | 43.3   | 45.9   | 51.1   | 51.2   | 57.5   | 59.4   | 58.8   | 56.8   | 49.0   | 36.0   |   |   |   |   |   |   |
| ( 924. RAD/SEC)            | 8000  | 37.9   | 41.7   | 44.6   | 50.8   | 53.6   | 58.6   | 58.6   | 58.6   | 57.2   | 48.5   | 33.7   |   |   |   |   |   |   |
| NO. OF BLADES 15           | 10000 | 35.2   | 38.4   | 41.9   | 47.4   | 51.1   | 52.8   | 54.9   | 55.4   | 52.9   | 43.5   | 27.5   |   |   |   |   |   |   |
| FAN TIP SPEED              | 18000 | 27.3   | 31.4   | 34.9   | 40.5   | 44.6   | 47.0   | 48.9   | 49.1   | 45.0   | 35.0   | 16.2   |   |   |   |   |   |   |
| 537. FT/SEC                | 20000 | 29.5   | 25.1   | 29.4   | 35.9   | 39.6   | 41.7   | 43.5   | 43.4   | 39.7   | 24.7   | 9.5    |   |   |   |   |   |   |
|                            | 25000 | 11.1   | 15.8   | 20.6   | 27.7   | 31.4   | 33.1   | 34.1   | 32.6   | 27.5   | 12.0   |        |   |   |   |   |   |   |
|                            | 31500 |        | 3.8    | 6.5    | 16.0   | 23.5   | 22.2   | 22.4   | 19.8   | 12.0   |        |        |   |   |   |   |   |   |
|                            | 40000 |        |        |        |        | 1.3    | 3.2    | 3.3    |        |        |        |        |   |   |   |   |   |   |
|                            | 50000 |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
|                            | 63000 |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
|                            | 80000 |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
| OVERALL CALCULATED         |       | 60.3   | 61.8   | 63.4   | 66.6   | 68.9   | 70.0   | 72.5   | 71.8   | 71.1   | 67.2   | 59.0   |   |   |   |   |   |   |
| PNDB                       |       | 71.4   | 73.7   | 75.7   | 79.6   | 82.0   | 84.5   | 85.9   | 85.1   | 85.0   | 80.6   | 70.5   |   |   |   |   |   |   |

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97. 62. 71. 81. 91. 101. 111. 122. 133. 145. 156. 0. 0. 0. 0. 0. 0. PHL  
 FRE. (10.92)(11.59)(12.24)(12.81)(13.38)(13.96)(14.54)(15.13)(15.72)(16.32)(16.93)(17.55)(18.18)(18.82)(19.47)(20.13)

|                           | 97.   | 62.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0.   | 0. | 0. | 0. | 0. | 0. | PHL   |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----|----|----|----|----|-------|
| RADIAL 17. FT.            | 53    |       |       |       |       |       |       |       |       |       |       |      |    |    |    |    |    |       |
| VEHICLE (S. H)            | 100   | 64.8  | 75.1  | 74.4  | 77.4  | 77.6  | 77.9  | 71.9  | 77.2  | 75.7  | 80.3  | 83.9 |    |    |    |    |    | 109.9 |
| CONFIG (P-75)             | 120   | 70.7  | 70.9  | 70.1  | 77.2  | 76.1  | 75.9  | 74.1  | 77.2  | 76.7  | 80.3  | 83.1 |    |    |    |    |    | 112.2 |
| LCC SCHEMATIC             | 160   | 71.3  | 71.4  | 71.6  | 77.9  | 72.9  | 73.2  | 75.9  | 77.2  | 79.5  | 81.8  | 83.9 |    |    |    |    |    | 111.1 |
| DATE 1/17/75              | 200   | 71.0  | 70.6  | 71.4  | 72.4  | 74.1  | 76.4  | 76.6  | 78.9  | 79.7  | 82.8  | 84.8 |    |    |    |    |    | 112.0 |
| RLW 57/3                  | 250   | 74.0  | 74.6  | 75.5  | 74.7  | 77.1  | 77.4  | 78.9  | 78.9  | 80.2  | 81.8  | 84.1 |    |    |    |    |    | 112.7 |
| TAPE                      | 315   | 78.1  | 76.4  | 76.5  | 77.2  | 77.5  | 77.4  | 78.4  | 78.9  | 79.7  | 81.3  | 83.4 |    |    |    |    |    | 112.8 |
| BAR 30.2 KG               | 430   | 73.8  | 74.1  | 73.9  | 75.3  | 75.4  | 76.9  | 76.9  | 77.9  | 79.2  | 81.4  | 82.4 |    |    |    |    |    | 111.5 |
| TAMS 31. DEC F            | 570   | 72.4  | 72.9  | 73.7  | 74.2  | 75.2  | 76.0  | 77.4  | 78.4  | 79.7  | 80.9  | 81.1 |    |    |    |    |    | 111.2 |
| 101090. 4A/21             | 630   | 75.2  | 75.4  | 76.4  | 77.7  | 77.7  | 79.5  | 81.1  | 81.2  | 81.5  | 82.1  | 81.1 |    |    |    |    |    | 113.0 |
| 1273. DEC F               | 830   | 75.2  | 75.4  | 75.7  | 77.3  | 77.9  | 79.2  | 80.4  | 81.4  | 81.8  | 81.9  | 80.9 |    |    |    |    |    | 113.4 |
| 1250. DEC F               | 1070  | 72.8  | 74.2  | 73.9  | 74.5  | 77.9  | 79.3  | 82.1  | 82.9  | 83.5  | 83.1  | 80.1 |    |    |    |    |    | 114.2 |
| 1268. DEC K               | 1250  | 74.7  | 73.7  | 75.7  | 77.5  | 79.2  | 80.8  | 82.6  | 83.9  | 84.8  | 83.9  | 79.9 |    |    |    |    |    | 115.1 |
| MACT 0.55 CM/N3           | 1670  | 78.2  | 78.3  | 79.7  | 81.6  | 83.8  | 85.5  | 86.6  | 87.7  | 87.8  | 87.2  | 82.8 |    |    |    |    |    | 116.9 |
| 1.0005 KG/N3              | 2030  | 74.5  | 74.7  | 76.2  | 77.1  | 79.8  | 81.8  | 83.6  | 84.7  | 84.5  | 83.7  | 80.4 |    |    |    |    |    | 115.6 |
| NFA 060. RPM              | 2530  | 79.9  | 72.5  | 73.1  | 74.4  | 74.5  | 80.0  | 82.1  | 83.9  | 85.3  | 81.2  | 74.1 |    |    |    |    |    | 114.6 |
| 1 722. 4A/SEC             | 3150  | 75.1  | 77.5  | 74.1  | 82.4  | 84.0  | 87.3  | 90.5  | 90.3  | 92.8  | 87.9  | 83.1 |    |    |    |    |    | 121.7 |
| NFK 7004. RPM             | 4030  | 75.3  | 76.6  | 79.3  | 83.8  | 84.4  | 89.4  | 91.4  | 91.9  | 92.4  | 89.5  | 84.5 |    |    |    |    |    | 122.6 |
| 1 743. 4A/SEC             | 5009  | 76.2  | 77.3  | 79.1  | 87.5  | 89.8  | 90.8  | 93.6  | 93.1  | 93.5  | 89.2  | 84.1 |    |    |    |    |    | 124.1 |
| NFD 8023. RPM             | 6330  | 74.7  | 77.0  | 79.3  | 87.6  | 88.9  | 89.7  | 93.8  | 92.8  | 93.5  | 84.1  | 83.1 |    |    |    |    |    | 123.5 |
| 1 924. 4A/SEC             | 8030  | 71.7  | 74.6  | 76.4  | 81.4  | 85.0  | 88.0  | 90.7  | 90.7  | 90.7  | 84.9  | 81.4 |    |    |    |    |    | 121.3 |
| NO. OF BLADES 15          | 11030 | 71.6  | 74.8  | 76.4  | 82.6  | 84.9  | 88.0  | 90.5  | 91.6  | 92.5  | 87.1  | 82.4 |    |    |    |    |    | 122.2 |
| FAN TIP SPEED 602. FT/SEC | 12530 | 71.1  | 73.2  | 75.7  | 82.2  | 84.4  | 87.2  | 90.2  | 92.0  | 92.8  | 86.8  | 81.7 |    |    |    |    |    | 122.2 |
| 25030                     | 64.5  | 70.6  | 72.7  | 77.5  | 81.7  | 84.5  | 87.5  | 89.9  | 89.7  | 84.6  | 79.9  |      |    |    |    |    |    | 120.1 |
| 31530                     | 60.1  | 69.8  | 72.9  | 77.5  | 80.9  | 83.8  | 87.5  | 90.2  | 90.4  | 84.5  | 79.8  |      |    |    |    |    |    | 120.8 |
| 40030                     | 56.9  | 68.3  | 70.4  | 77.0  | 80.5  | 82.4  | 85.9  | 88.3  | 89.1  | 83.5  | 77.8  |      |    |    |    |    |    | 119.9 |
| 50030                     | 55.4  | 68.9  | 69.2  | 76.1  | 79.0  | 81.8  | 84.7  | 87.1  | 87.8  | 82.2  | 75.3  |      |    |    |    |    |    | 119.3 |
| 63030                     | 63.8  | 64.8  | 66.4  | 72.3  | 74.9  | 77.9  | 81.3  | 82.5  | 83.8  | 78.8  | 69.3  |      |    |    |    |    |    | 116.7 |
| 80030                     | 63.2  | 67.2  | 64.5  | 67.4  | 70.1  | 72.8  | 76.6  | 74.8  | 77.3  | 74.1  | 69.1  |      |    |    |    |    |    | 113.4 |
| OVERALL MEASURED          | 63.3  | 64.3  | 61.1  | 64.3  | 63.8  | 64.9  | 67.8  | 69.8  | 69.7  | 67.3  | 61.7  |      |    |    |    |    |    | 109.6 |
| OVERALL CALCULATED        | 66.4  | 63.8  | 65.8  | 62.9  | 63.3  | 63.8  | 64.9  | 64.1  | 63.5  | 63.5  | 61.4  |      |    |    |    |    |    | 110.9 |
| PHL                       | 87.7  | 89.2  | 88.3  | 83.7  | 86.6  | 88.9  | 101.4 | 102.2 | 102.7 | 99.8  | 96.3  |      |    |    |    |    |    | 133.3 |
|                           | 99.7  | 101.4 | 102.7 | 106.4 | 109.7 | 111.8 | 113.7 | 113.9 | 114.5 | 111.9 | 100.3 |      |    |    |    |    |    |       |

WHEEL SIZE PRESSURE LEVELS 150. DFC. F. 70 PERCENT DEL. NUM. FAVI

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                           | 51.     | 62.     | 71.     | 71.     | 91.     | 101.    | 111.    | 122.    | 131.    | 142.    | 150.    | 0.   | 0. | 0. | 0. | 0. | 0.  |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|----|----|----|----|-----|
| PREC.                     | (19.42) | (11.08) | (11.24) | (11.41) | (11.54) | (11.76) | (11.94) | (12.13) | (12.32) | (12.52) | (12.73) | (0.  | 0. | 0. | 0. | 0. | 0.) |
| SIDELINE 200. FT.         | 50      |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |     |
| (60.96")                  | 63      |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |     |
| VEHICLE R-55              | 100     | 47.1    | 52.4    | 52.3    | 51.7    | 51.0    | 51.2    | 49.7    | 49.1    | 51.3    | 53.9    | 53.0 |    |    |    |    |     |
| CONFIC                    | 120     | 46.3    | 57.1    | 57.0    | 55.4    | 54.5    | 54.1    | 52.4    | 54.0    | 54.2    | 53.7    | 52.9 |    |    |    |    |     |
| LOC SCHEMECTAV            | 160     | 47.4    | 44.5    | 49.4    | 51.1    | 51.2    | 51.3    | 53.5    | 53.9    | 54.2    | 55.0    | 53.4 |    |    |    |    |     |
| DATE 1/17/75              | 200     | 47.1    | 47.7    | 49.1    | 50.5    | 52.3    | 54.4    | 54.2    | 55.0    | 55.0    | 55.9    | 54.2 |    |    |    |    |     |
| RUN 5/73                  | 250     | 50.6    | 51.6    | 51.2    | 54.7    | 55.2    | 55.4    | 54.3    | 54.5    | 55.4    | 54.7    | 53.2 |    |    |    |    |     |
| TAPE                      | 315     | 51.9    | 51.2    | 54.2    | 55.1    | 55.7    | 56.3    | 55.7    | 55.4    | 54.4    | 54.1    | 52.3 |    |    |    |    |     |
| BAR 35.2 MG               | 400     | 49.6    | 50.9    | 51.3    | 52.6    | 53.3    | 54.7    | 54.2    | 54.3    | 54.1    | 53.9    | 51.0 |    |    |    |    |     |
| (01090. M/M2)             | 500     | 49.0    | 49.5    | 50.0    | 52.0    | 53.0    | 53.7    | 54.6    | 54.7    | 54.5    | 53.3    | 49.6 |    |    |    |    |     |
| TANG 31. DEG F            | 600     | 50.6    | 51.9    | 53.6    | 55.4    | 55.7    | 57.1    | 58.2    | 57.3    | 56.1    | 54.4    | 49.3 |    |    |    |    |     |
| (273. DEG K)              | 800     | 50.5    | 51.0    | 52.4    | 54.5    | 55.6    | 56.7    | 57.3    | 57.4    | 56.2    | 53.9    | 48.0 |    |    |    |    |     |
| TACT 22. DEG F            | 1000    | 48.1    | 53.4    | 50.9    | 55.9    | 55.5    | 58.0    | 58.0    | 58.0    | 57.3    | 54.9    | 47.7 |    |    |    |    |     |
| (200. DEG K)              | 1250    | 49.0    | 49.0    | 52.0    | 54.4    | 54.5    | 58.0    | 59.3    | 59.6    | 58.9    | 55.5    | 47.1 |    |    |    |    |     |
| MACT 0.55 CM/M3           | 1600    | 51.0    | 54.4    | 56.3    | 57.7    | 61.0    | 62.6    | 63.1    | 63.2    | 61.6    | 58.4    | 49.4 |    |    |    |    |     |
| (.80055 KG/M3)            | 2000    | 49.0    | 50.4    | 52.6    | 55.0    | 54.0    | 59.9    | 59.9    | 58.1    | 54.6    | 48.6    |      |    |    |    |    |     |
| NFA 600. RPM              | 2500    | 45.3    | 44.0    | 49.4    | 53.1    | 55.4    | 56.7    | 58.2    | 58.9    | 58.6    | 51.0    | 43.9 |    |    |    |    |     |
| (722. RAD/SEC)            | 3150    | 49.1    | 52.6    | 54.3    | 57.0    | 62.6    | 64.9    | 66.3    | 65.1    | 65.0    | 58.0    | 48.1 |    |    |    |    |     |
| NFK 7094. RPM             | 4000    | 48.7    | 51.3    | 54.5    | 59.0    | 62.6    | 65.4    | 66.4    | 64.2    | 64.4    | 58.0    | 48.5 |    |    |    |    |     |
| (743. RAD/SEC)            | 5000    | 49.4    | 51.7    | 54.4    | 57.3    | 65.3    | 64.0    | 68.7    | 67.1    | 65.6    | 58.2    | 47.5 |    |    |    |    |     |
| NPD 6023. RPM             | 6000    | 46.9    | 50.7    | 53.0    | 54.6    | 62.2    | 64.0    | 67.4    | 68.0    | 64.6    | 58.0    | 44.7 |    |    |    |    |     |
| (924. RAD/SEC)            | 8000    | 42.6    | 47.0    | 49.0    | 54.4    | 59.2    | 62.0    | 63.4    | 62.6    | 60.3    | 51.0    | 40.1 |    |    |    |    |     |
| NO. OF BLADES 15          | 10000   | 40.5    | 44.7    | 48.4    | 55.9    | 57.6    | 66.4    | 62.1    | 61.6    | 59.9    | 50.2    | 37.2 |    |    |    |    |     |
| FAN TIP SPEED 602. FT/SEC | 12500   | 37.2    | 41.4    | 45.2    | 52.4    | 54.0    | 57.3    | 59.4    | 59.4    | 56.4    | 48.0    | 30.8 |    |    |    |    |     |
|                           | 16000   | 30.0    | 34.6    | 38.4    | 45.1    | 48.0    | 51.0    | 52.0    | 53.1    | 49.0    | 37.3    | 19.6 |    |    |    |    |     |
|                           | 20000   | 23.5    | 28.3    | 32.0    | 40.3    | 43.1    | 45.2    | 47.7    | 47.6    | 43.4    | 29.7    | 7.0  |    |    |    |    |     |
|                           | 25000   | 13.6    | 19.1    | 23.0    | 31.9    | 35.9    | 37.1    | 38.0    | 37.6    | 32.3    |         |      |    |    |    |    |     |
|                           | 31500   |         | 6.5     | 12.0    | 20.9    | 24.5    | 26.9    | 26.9    | 24.5    | 16.3    |         |      |    |    |    |    |     |
|                           | 40000   |         |         |         | 2.1     | 5.8     | 7.5     | 7.6     | 2.3     |         |         |      |    |    |    |    |     |
|                           | 50000   |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |     |
|                           | 63000   |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |     |
|                           | 80000   |         |         |         |         |         |         |         |         |         |         |      |    |    |    |    |     |
| OVERALL CALCULATED        |         | 62.1    | 64.0    | 65.2    | 69.2    | 72.0    | 73.9    | 75.5    | 74.7    | 73.5    | 66.5    | 63.4 |    |    |    |    |     |
| PM2.5                     |         | 73.6    | 76.5    | 79.4    | 82.5    | 85.9    | 87.4    | 89.1    | 88.2    | 87.1    | 81.4    | 73.2 |    |    |    |    |     |



MODEL SOUND PRESSURE LEVELS (59. DFG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 59      | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0    | 0   | 0   | 0   | 0   | 0   |
|--------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|
|                    | (1.032) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0) |
| PREV. 50           |         |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| 53                 |         |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| 50                 |         |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| SIDELINE 200. FT.  | 100     | 45.1   | 48.7   | 51.1   | 51.2   | 52.0   | 52.4   | 52.4   | 52.1   | 53.4   | 56.5   | 57.3 |     |     |     |     |     |
| (40.96 M)          | 125     | 52.3   | 55.6   | 55.7   | 57.4   | 55.5   | 55.4   | 56.6   | 57.5   | 57.2   | 56.9   | 56.4 |     |     |     |     |     |
| VEHICLE            | 160     | 50.2   | 51.5   | 52.7   | 54.1   | 53.7   | 54.0   | 56.5   | 57.4   | 57.6   | 58.0   | 56.9 |     |     |     |     |     |
| CONFIG             | 200     | 19.3   | 50.2   | 52.1   | 53.7   | 53.3   | 56.9   | 56.9   | 58.1   | 58.2   | 58.6   | 57.4 |     |     |     |     |     |
| LCC SCHEMECTARY    | 250     | 54.0   | 54.8   | 57.0   | 57.2   | 58.7   | 59.1   | 59.6   | 60.5   | 59.9   | 59.7   | 57.2 |     |     |     |     |     |
| DATE 1/17/75       | 315     | 54.4   | 54.0   | 56.4   | 57.8   | 59.2   | 58.5   | 59.0   | 58.1   | 57.3   | 57.6   | 55.0 |     |     |     |     |     |
| RUN: 5774          | 400     | 52.6   | 53.6   | 54.8   | 55.5   | 56.6   | 56.7   | 57.4   | 57.3   | 57.1   | 56.9   | 54.0 |     |     |     |     |     |
| TAPE               | 500     | 50.0   | 51.8   | 52.7   | 54.7   | 55.5   | 56.7   | 57.6   | 57.9   | 57.3   | 56.5   | 52.8 |     |     |     |     |     |
| BAR 30-2 HG        | 630     | 52.6   | 53.7   | 55.6   | 57.1   | 58.2   | 59.1   | 61.0   | 59.8   | 58.9   | 56.9   | 52.3 |     |     |     |     |     |
| (01890. N/H2)      | 800     | 53.0   | 54.1   | 55.5   | 56.8   | 57.8   | 59.0   | 59.6   | 59.9   | 59.2   | 58.9   | 51.5 |     |     |     |     |     |
| TAMB 31. DEG F     | 1000    | 50.9   | 52.9   | 54.4   | 54.4   | 57.7   | 59.1   | 60.9   | 60.8   | 59.8   | 56.9   | 50.2 |     |     |     |     |     |
| (273. DEG K)       | 1250    | 51.2   | 52.0   | 54.3   | 57.1   | 59.9   | 60.0   | 61.6   | 60.9   | 59.9   | 56.5   | 50.3 |     |     |     |     |     |
| THEY 22. DEG F     | 1600    | 51.7   | 53.4   | 54.9   | 57.9   | 59.7   | 61.1   | 62.4   | 61.7   | 60.1   | 59.7   | 48.4 |     |     |     |     |     |
| (268. DEG K)       | 2000    | 54.0   | 54.2   | 57.1   | 60.0   | 62.3   | 64.9   | 66.4   | 66.4   | 64.4   | 58.1   | 50.4 |     |     |     |     |     |
| HACT 0.55 GH/43    | 2500    | 49.0   | 50.7   | 53.4   | 54.6   | 59.4   | 60.0   | 60.7   | 61.2   | 60.4   | 52.8   | 45.7 |     |     |     |     |     |
| (.00055 VG/43)     | 3150    | 50.9   | 53.1   | 56.3   | 60.1   | 63.4   | 64.1   | 65.1   | 65.6   | 65.0   | 57.0   | 47.9 |     |     |     |     |     |
| NFA 7671. RPM      | 4000    | 53.0   | 55.1   | 59.3   | 64.1   | 67.4   | 69.1   | 71.5   | 71.7   | 68.3   | 61.5   | 52.2 |     |     |     |     |     |
| ( 803. RAD/SEC)    | 5000    | 51.1   | 53.9   | 57.4   | 61.9   | 66.1   | 68.3   | 70.2   | 69.6   | 67.6   | 59.5   | 48.5 |     |     |     |     |     |
| NFK 7887. RPM      | 6300    | 50.9   | 54.4   | 58.1   | 62.4   | 66.4   | 68.8   | 70.9   | 70.2   | 68.8   | 58.6   | 46.9 |     |     |     |     |     |
| ( 826. RAD/SEC)    | 8000    | 46.1   | 50.5   | 53.3   | 58.7   | 61.9   | 64.7   | 64.9   | 65.6   | 63.1   | 53.3   | 42.1 |     |     |     |     |     |
| NFD 8823. RPM      | 10000   | 44.5   | 47.9   | 52.6   | 50.0   | 61.1   | 64.1   | 66.1   | 65.9   | 63.2   | 52.7   | 39.0 |     |     |     |     |     |
| ( 924. RAD/SEC)    | 12500   | 41.2   | 44.6   | 48.9   | 55.4   | 58.8   | 62.6   | 62.9   | 62.9   | 59.6   | 48.5   | 33.3 |     |     |     |     |     |
| NG. OF BLADES 15   | 16000   | 34.0   | 38.1   | 42.1   | 48.8   | 52.4   | 54.8   | 57.0   | 56.6   | 52.3   | 39.8   | 21.5 |     |     |     |     |     |
| FAN TIP SPEED      | 20000   | 27.0   | 32.3   | 36.9   | 44.0   | 47.6   | 49.7   | 52.0   | 51.6   | 46.2   | 31.5   | 9.2  |     |     |     |     |     |
| 670. FT/SEC        | 25000   | 17.3   | 23.1   | 28.6   | 35.9   | 39.6   | 41.9   | 43.8   | 42.4   | 36.0   | 19.4   |      |     |     |     |     |     |
|                    | 31500   | 2.8    | 10.3   | 16.8   | 25.4   | 28.5   | 31.2   | 31.6   | 28.5   | 20.5   | 0.3    |      |     |     |     |     |     |
|                    | 40000   |        |        |        | 6.4    | 10.0   | 12.0   | 11.8   | 6.3    |        |        |      |     |     |     |     |     |
|                    | 50000   |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 63000   |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 80000   |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| OVERALL CALCULATED |         | 64.7   | 66.6   | 68.8   | 71.9   | 74.7   | 76.6   | 78.3   | 78.1   | 76.2   | 70.7   | 66.5 |     |     |     |     |     |
| PNDR               |         | 76.5   | 79.2   | 82.0   | 85.8   | 88.7   | 90.4   | 92.3   | 92.3   | 89.9   | 83.9   | 78.1 |     |     |     |     |     |



MODEL SOUND PRESSURE LEVELS (59. DFG, % 70 PERCENT REL. HUM. [AY])  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ. 53. 62. 71. 81. 91. 101. 111. 122. 133. 145. 156. 0. 0. 0. 0. 0. 0. PNL  
 (1.92)(1.98)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(0. 110. 110. 110. 110. 110. )

|                    | 53.   | 62.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0.    | 0. | 0. | 0. | 0. | PNL   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-------|
| RADIAL 17. FT.     | 60    |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |       |
| ( 5. H)            | 100   | 69.3  | 72.1  | 73.4  | 73.4  | 74.4  | 74.4  | 74.9  | 74.5  | 81.6  | 87.4  |       |    |    |    |    | 112.4 |
| VEHICLE            | 125   | 74.3  | 74.6  | 74.4  | 77.9  | 77.4  | 77.2  | 74.6  | 80.9  | 81.2  | 83.9  |       |    |    |    |    | 114.4 |
| CONFIG             | 160   | 73.5  | 74.6  | 74.7  | 76.2  | 75.6  | 76.2  | 74.6  | 80.4  | 82.5  | 84.6  |       |    |    |    |    | 114.1 |
| LOC SCHEDULED      | 200   | 73.5  | 73.4  | 74.1  | 75.7  | 76.9  | 79.4  | 79.6  | 81.4  | 83.0  | 85.8  |       |    |    |    |    | 114.9 |
| DATE 1/17/75       | 250   | 78.0  | 74.1  | 79.6  | 80.4  | 80.9  | 81.6  | 83.1  | 84.4  | 85.0  | 84.8  |       |    |    |    |    | 117.1 |
| RUN 57/5           | 314   | 74.3  | 74.9  | 79.1  | 79.9  | 80.1  | 80.7  | 81.1  | 81.7  | 82.7  | 84.0  |       |    |    |    |    | 119.0 |
| TAPE               | 400   | 76.3  | 76.9  | 77.2  | 78.5  | 78.6  | 78.7  | 79.9  | 80.9  | 82.5  | 84.6  |       |    |    |    |    | 114.6 |
| BAR 30.2 HG        | 500   | 74.4  | 75.2  | 75.9  | 76.7  | 77.7  | 78.7  | 80.6  | 81.4  | 82.7  | 84.4  |       |    |    |    |    | 114.3 |
| ( 190. N/M2)       | 630   | 77.2  | 77.2  | 78.4  | 79.7  | 80.2  | 81.5  | 83.1  | 84.2  | 83.6  | 84.6  |       |    |    |    |    | 116.0 |
| ( 31. DEG F)       | 800   | 77.7  | 78.2  | 78.4  | 79.5  | 79.7  | 81.7  | 83.1  | 83.9  | 84.5  | 85.6  |       |    |    |    |    | 116.2 |
| ( 273. DEG K)      | 1000  | 74.4  | 77.2  | 77.2  | 79.9  | 80.4  | 82.0  | 83.9  | 84.4  | 85.2  | 85.1  |       |    |    |    |    | 118.3 |
| TACT 22. DEG F     | 1250  | 76.2  | 76.2  | 77.7  | 80.0  | 81.0  | 83.3  | 84.9  | 85.2  | 86.0  | 85.7  |       |    |    |    |    | 117.0 |
| ( 254. DEG K)      | 1400  | 77.0  | 76.7  | 78.2  | 81.1  | 82.3  | 84.5  | 86.4  | 86.4  | 86.8  | 85.2  |       |    |    |    |    | 117.9 |
| MACT 0.55 GM/M3    | 2000  | 79.5  | 78.7  | 80.9  | 83.9  | 85.5  | 88.3  | 90.6  | 91.2  | 91.0  | 87.4  |       |    |    |    |    | 121.7 |
| ( 0.0055 KG/M3)    | 2500  | 74.2  | 75.5  | 77.4  | 80.6  | 82.8  | 83.0  | 84.6  | 85.9  | 86.8  | 83.2  |       |    |    |    |    | 117.0 |
| MFA 7667. RPM      | 3150  | 76.6  | 78.5  | 80.6  | 84.1  | 86.8  | 88.7  | 88.5  | 90.8  | 92.4  | 87.6  |       |    |    |    |    | 121.7 |
| ( 833. RA-/SEC)    | 4000  | 80.3  | 81.4  | 83.7  | 84.3  | 91.2  | 93.7  | 95.4  | 97.2  | 95.9  | 92.8  |       |    |    |    |    | 127.0 |
| NFK 7883. RPM      | 5000  | 78.5  | 79.6  | 81.6  | 86.5  | 89.6  | 92.5  | 95.3  | 95.4  | 95.3  | 91.0  |       |    |    |    |    | 125.9 |
| ( 825. RAD/SEC)    | 6300  | 78.5  | 80.8  | 83.3  | 84.3  | 90.7  | 93.7  | 96.7  | 96.8  | 98.0  | 91.4  |       |    |    |    |    | 127.6 |
| NFD 8823. RPM      | 8000  | 75.7  | 78.1  | 79.9  | 85.2  | 87.7  | 91.5  | 92.9  | 93.5  | 93.5  | 87.7  |       |    |    |    |    | 124.1 |
| ( 924. RAD/SEC)    | 10000 | 75.9  | 77.5  | 80.6  | 86.3  | 89.2  | 92.9  | 93.8  | 95.6  | 95.2  | 90.3  |       |    |    |    |    | 125.7 |
| NO. OF BLADES 15   | 12500 | 75.1  | 76.2  | 79.2  | 85.2  | 89.1  | 92.2  | 93.7  | 95.2  | 95.5  | 90.0  |       |    |    |    |    | 125.8 |
| FAN TIP SPEED      | 16000 | 72.3  | 73.9  | 77.0  | 82.3  | 85.5  | 88.0  | 91.0  | 93.7  | 92.7  | 87.6  |       |    |    |    |    | 123.6 |
| 669. FT/SEC        | 20000 | 71.9  | 73.3  | 76.3  | 82.8  | 85.7  | 88.6  | 91.5  | 93.9  | 93.5  | 88.0  |       |    |    |    |    | 124.5 |
|                    | 25000 | 70.9  | 72.3  | 75.4  | 81.8  | 84.5  | 86.9  | 90.4  | 92.5  | 93.1  | 87.6  |       |    |    |    |    | 124.1 |
|                    | 31500 | 68.9  | 70.9  | 74.4  | 80.9  | 83.3  | 86.1  | 88.7  | 90.6  | 91.0  | 86.2  |       |    |    |    |    | 123.2 |
|                    | 40000 | 65.6  | 67.5  | 70.4  | 76.5  | 79.1  | 82.6  | 85.5  | 86.7  | 87.0  | 82.5  |       |    |    |    |    | 120.9 |
|                    | 50000 | 64.2  | 63.2  | 67.2  | 71.1  | 74.1  | 77.0  | 81.1  | 80.6  | 81.3  | 78.1  |       |    |    |    |    | 117.4 |
|                    | 63000 | 64.1  | 61.6  | 64.5  | 65.1  | 67.4  | 70.2  | 73.1  | 72.9  | 73.0  | 70.8  |       |    |    |    |    | 112.6 |
|                    | 80000 | 66.4  | 64.8  | 65.0  | 63.6  | 63.8  | 65.0  | 65.9  | 65.4  | 66.0  | 65.0  |       |    |    |    |    | 111.8 |
| OVERALL MEASURED   |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |       |
| OVERALL CALCULATED |       | 90.5  | 91.5  | 93.2  | 97.1  | 99.6  | 102.3 | 104.4 | 105.6 | 105.7 | 101.0 | 99.2  |    |    |    |    | 126.6 |
| PNL                |       | 103.4 | 104.4 | 105.3 | 110.1 | 112.4 | 114.7 | 116.4 | 117.7 | 117.4 | 114.6 | 111.5 |    |    |    |    |       |

|                    | 53.    | 63.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 159.   | 0.   | 0.    | 0.    | 0.    | 0.    | 0.    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-------|-------|-------|-------|-------|
| FRZ                | (0.62) | (1.38) | (1.24) | (1.41) | (1.59) | (1.76) | (1.94) | (2.11) | (2.32) | (2.52) | (2.73) | (0.) | (10.) | (10.) | (10.) | (10.) | (10.) |
| SIDELINE 200. FT.  | 130    | 44.6   | 49.4   | 51.3   | 51.7   | 51.8   | 52.7   | 52.2   | 51.8   | 54.1   | 57.0   | 57.3 |       |       |       |       |       |
| ( 80.96 M)         | 120    | 32.5   | 35.8   | 35.2   | 34.2   | 33.7   | 33.4   | 32.3   | 31.8   | 34.7   | 37.2   | 36.6 |       |       |       |       |       |
| VEHICLE E-55       | 120    | 42.9   | 51.7   | 52.7   | 54.3   | 53.9   | 54.3   | 54.3   | 57.2   | 57.8   | 57.8   | 56.6 |       |       |       |       |       |
| CONFIG 16-13       | 100    | 49.6   | 50.4   | 51.8   | 51.7   | 51.1   | 51.4   | 51.2   | 58.1   | 58.2   | 58.9   | 56.9 |       |       |       |       |       |
| LCC SCHEMFACTADV   | 250    | 54.0   | 55.1   | 57.2   | 57.4   | 57.0   | 59.6   | 60.6   | 61.0   | 60.1   | 59.7   | 57.2 |       |       |       |       |       |
| DATE 1/17/75       | 250    | 54.1   | 55.7   | 56.7   | 57.8   | 58.2   | 58.5   | 58.5   | 58.1   | 57.8   | 57.6   | 55.5 |       |       |       |       |       |
| RUN 57/5           | 315    | 52.1   | 53.6   | 54.6   | 54.3   | 56.6   | 56.7   | 57.2   | 57.3   | 57.4   | 57.2   | 54.5 |       |       |       |       |       |
| TAPE               | 400    | 50.0   | 51.8   | 53.2   | 54.5   | 55.3   | 56.4   | 57.8   | 57.7   | 57.5   | 56.8   | 53.3 |       |       |       |       |       |
| BAR 30.2 MG        | 400    | 52.4   | 53.7   | 55.6   | 57.4   | 57.9   | 59.1   | 60.2   | 60.3   | 58.4   | 56.9   | 52.8 |       |       |       |       |       |
| (01890. N/M2)      | 630    | 53.0   | 54.8   | 55.5   | 57.0   | 57.6   | 59.2   | 60.1   | 59.9   | 59.0   | 57.7   | 51.8 |       |       |       |       |       |
| TAMB 31. DEG F     | 800    | 53.6   | 53.4   | 54.1   | 54.4   | 54.0   | 59.3   | 60.7   | 60.3   | 59.5   | 56.9   | 50.4 |       |       |       |       |       |
| ( 273. DEG K)      | 1000   | 51.2   | 52.3   | 54.5   | 57.3   | 58.4   | 60.9   | 61.6   | 60.9   | 60.1   | 57.2   | 49.8 |       |       |       |       |       |
| TDET 22. DEG F     | 1200   | 51.7   | 52.6   | 54.4   | 54.2   | 59.5   | 61.6   | 62.9   | 61.9   | 60.6   | 56.4   | 48.6 |       |       |       |       |       |
| ( 298. DEG K)      | 1400   | 54.0   | 54.4   | 57.4   | 60.4   | 62.6   | 65.1   | 66.9   | 66.4   | 64.6   | 58.4   | 50.9 |       |       |       |       |       |
| MACT 0.55 CM/M3    | 2500   | 49.5   | 51.0   | 53.7   | 57.4   | 59.6   | 59.7   | 60.7   | 60.9   | 60.1   | 53.8   | 45.9 |       |       |       |       |       |
| (.30055 MG/M3)     | 2500   | 47.6   | 53.6   | 56.6   | 61.6   | 63.4   | 64.4   | 64.3   | 65.6   | 65.5   | 57.8   | 48.1 |       |       |       |       |       |
| MFA 7467. RPH      | 3150   | 53.7   | 56.1   | 59.3   | 64.3   | 67.4   | 69.6   | 70.8   | 71.5   | 68.3   | 62.2   | 52.7 |       |       |       |       |       |
| ( 803. RAD/SEC)    | 4000   | 51.6   | 54.0   | 56.9   | 62.3   | 65.6   | 68.6   | 70.4   | 69.3   | 67.4   | 60.0   | 46.7 |       |       |       |       |       |
| MFK 7883. RPH      | 5000   | 50.7   | 54.4   | 57.8   | 63.4   | 65.9   | 68.8   | 71.1   | 70.0   | 69.1   | 59.1   | 47.2 |       |       |       |       |       |
| ( 825. RAD/SEC)    | 6300   | 46.6   | 50.5   | 53.3   | 59.2   | 61.7   | 65.5   | 66.1   | 65.3   | 63.1   | 53.5   | 41.8 |       |       |       |       |       |
| MFD 8823. RPH      | 8000   | 44.8   | 48.2   | 52.4   | 58.6   | 61.8   | 64.4   | 65.4   | 65.6   | 62.7   | 53.5   | 39.2 |       |       |       |       |       |
| ( 924. RAD/SEC)    | 10000  | 41.2   | 44.4   | 48.7   | 55.4   | 59.6   | 62.3   | 62.9   | 62.6   | 59.9   | 49.2   | 38.3 |       |       |       |       |       |
| NO. OF BLADES 15   | 12500  | 33.8   | 37.9   | 42.6   | 48.8   | 52.4   | 54.5   | 54.5   | 54.8   | 52.0   | 40.5   | 21.8 |       |       |       |       |       |
| FAN TIP SPEED      | 16000  | 27.2   | 31.8   | 36.9   | 44.5   | 47.8   | 50.2   | 51.7   | 51.4   | 48.2   | 32.2   | 9.0  |       |       |       |       |       |
| 669. FT/SEC        | 20000  | 17.6   | 23.1   | 28.6   | 36.7   | 39.9   | 41.6   | 43.3   | 41.9   | 38.3   | 19.7   |      |       |       |       |       |       |
|                    | 25000  | 2.8    | 10.8   | 17.3   | 25.7   | 28.5   | 30.7   | 30.9   | 28.0   | 20.3   | 0.6    |      |       |       |       |       |       |
|                    | 31500  |        |        | 6.4    | 9.8    | 12.2   | 11.8   | 6.5    |        |        |        |      |       |       |       |       |       |
|                    | 40000  |        |        |        |        |        |        |        |        |        |        |      |       |       |       |       |       |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |       |       |       |       |       |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |       |       |       |       |       |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |       |       |       |       |       |
| OVERALL CALCULATED |        | 64.7   | 66.7   | 68.8   | 72.4   | 74.6   | 76.8   | 78.2   | 77.9   | 76.2   | 71.1   | 66.6 |       |       |       |       |       |
| PNDR               |        | 77.1   | 79.3   | 82.0   | 86.2   | 88.7   | 90.7   | 91.9   | 92.1   | 90.8   | 84.5   | 79.5 |       |       |       |       |       |

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                           | 57.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.    | 0.    | 0.    | 0.    | 0.    | PrL   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| PRF.                      | (0.52) | (1.08) | (1.24) | (1.41) | (1.59) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.)  | (10.) | (10.) | (10.) | (10.) | (10.) |
| RADIAL 17. FT.            | 50     |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
| ( 5. M)                   | 63     |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
| VEHICLE R-55              | 100    | 70.2   | 73.4   | 76.7   | 79.5   | 79.0   | 76.6   | 73.0   | 69.0   | 72.2   | 74.0   | 76.7  |       |       |       |       | 109.5 |
| CONFIG 75-13              | 125    | 67.3   | 68.7   | 71.7   | 69.5   | 70.5   | 68.4   | 67.5   | 70.8   | 72.5   | 71.5   | 74.9  |       |       |       |       | 104.6 |
| LCC SCHEMECTARY           | 160    | 64.7   | 64.9   | 64.9   | 64.5   | 66.3   | 66.6   | 68.4   | 70.0   | 71.5   | 73.3   | 75.4  |       |       |       |       | 103.4 |
| DATE 1/17/75              | 200    | 64.3   | 64.7   | 65.2   | 64.2   | 67.0   | 69.9   | 69.8   | 71.2   | 72.5   | 74.3   | 76.6  |       |       |       |       | 104.3 |
| RUN 57/6                  | 250    | 67.2   | 67.9   | 68.0   | 69.7   | 69.8   | 69.9   | 71.3   | 72.0   | 72.7   | 73.3   | 75.1  |       |       |       |       | 109.0 |
| TAPE                      | 315    | 69.0   | 70.4   | 70.7   | 71.0   | 71.3   | 71.7   | 71.6   | 72.3   | 72.7   | 73.3   | 74.7  |       |       |       |       | 105.8 |
| BAR 30.2 MG               | 400    | 66.5   | 67.7   | 67.3   | 69.3   | 69.1   | 70.2   | 70.5   | 71.3   | 72.2   | 72.8   | 74.2  |       |       |       |       | 104.4 |
| (01890. N/M2)             | 500    | 65.8   | 67.0   | 67.7   | 68.5   | 68.8   | 70.0   | 71.3   | 72.0   | 73.5   | 73.5   | 74.2  |       |       |       |       | 104.9 |
| TAMB 31. DEG F            | 630    | 69.6   | 70.0   | 71.2   | 72.0   | 72.9   | 74.0   | 75.3   | 76.3   | 76.5   | 76.1   | 74.4  |       |       |       |       | 100.1 |
| (273. DEG K)              | 800    | 69.8   | 70.0   | 69.4   | 71.3   | 72.1   | 73.7   | 74.8   | 76.0   | 77.0   | 77.1   | 74.7  |       |       |       |       | 100.0 |
| TWET 22. DEG F            | 1000   | 67.4   | 68.5   | 68.7   | 71.3   | 72.9   | 75.0   | 76.8   | 78.8   | 79.5   | 79.8   | 74.7  |       |       |       |       | 109.8 |
| (268. DEG K)              | 1250   | 73.9   | 73.3   | 73.2   | 77.3   | 79.4   | 81.5   | 82.8   | 84.0   | 85.7   | 86.1   | 78.9  |       |       |       |       | 115.8 |
| MACT 0.55 GM/M3           | 1600   | 70.6   | 70.3   | 70.9   | 73.6   | 75.9   | 78.0   | 79.5   | 87.0   | 81.0   | 81.1   | 75.4  |       |       |       |       | 114.0 |
| (.00355 KG/M3)            | 2000   | 65.9   | 66.5   | 67.4   | 70.4   | 71.9   | 74.0   | 75.3   | 76.2   | 76.7   | 76.6   | 72.9  |       |       |       |       | 107.7 |
| NFA 5383 RPM              | 2500   | 68.6   | 69.5   | 71.4   | 73.9   | 77.4   | 80.0   | 81.2   | 84.2   | 86.5   | 84.3   | 78.2  |       |       |       |       | 119.0 |
| ( 564. RAD/SEC)           | 3150   | 68.3   | 70.3   | 71.1   | 73.9   | 77.2   | 80.2   | 80.9   | 82.9   | 84.7   | 84.3   | 77.1  |       |       |       |       | 114.2 |
| NFK 5534 RPM              | 4000   | 70.2   | 71.4   | 72.7   | 76.4   | 80.5   | 84.1   | 85.1   | 87.0   | 88.3   | 86.2   | 80.3  |       |       |       |       | 117.8 |
| ( 579. RAD/SEC)           | 5000   | 68.7   | 69.4   | 71.4   | 75.6   | 79.3   | 82.8   | 85.2   | 85.9   | 87.3   | 85.4   | 77.7  |       |       |       |       | 118.8 |
| NFD 8423 RPM              | 6300   | 68.1   | 69.1   | 71.8   | 75.4   | 79.6   | 81.5   | 84.2   | 85.4   | 86.7   | 84.3   | 77.4  |       |       |       |       | 118.2 |
| ( 924. RAD/SEC)           | 8000   | 64.2   | 66.6   | 68.2   | 72.5   | 75.4   | 79.5   | 82.1   | 83.1   | 83.5   | 80.9   | 75.2  |       |       |       |       | 113.6 |
| NO. OF BLADES 15          | 10000  | 64.8   | 66.6   | 68.3   | 73.1   | 76.8   | 80.5   | 82.5   | 84.7   | 86.2   | 82.5   | 76.5  |       |       |       |       | 115.3 |
| FAN TIP SPEED 470. FT/SEC | 12500  | 64.3   | 65.0   | 67.0   | 71.7   | 75.8   | 78.2   | 81.6   | 83.5   | 85.2   | 81.5   | 75.8  |       |       |       |       | 114.4 |
| 25000                     | 16000  | 62.2   | 63.4   | 64.8   | 69.1   | 73.7   | 76.0   | 79.4   | 82.5   | 83.4   | 80.0   | 74.2  |       |       |       |       | 113.0 |
| 31500                     | 20000  | 60.8   | 61.8   | 63.3   | 68.3   | 72.6   | 75.3   | 77.7   | 80.8   | 83.2   | 79.2   | 72.6  |       |       |       |       | 112.5 |
| 40000                     | 25000  | 59.3   | 59.9   | 61.7   | 67.3   | 71.2   | 73.9   | 76.8   | 78.4   | 80.4   | 77.2   | 69.9  |       |       |       |       | 111.0 |
| 50000                     | 31500  | 58.1   | 59.2   | 60.4   | 66.4   | 70.5   | 72.8   | 75.6   | 77.9   | 78.5   | 75.9   | 68.1  |       |       |       |       | 110.7 |
| 60000                     | 40000  | 55.9   | 56.5   | 58.0   | 62.3   | 65.8   | 68.9   | 72.0   | 73.3   | 74.5   | 72.2   | 62.1  |       |       |       |       | 108.0 |
|                           | 50000  | 56.4   | 55.7   | 57.2   | 58.4   | 61.2   | 64.0   | 67.2   | 67.7   | 68.8   | 67.6   | 57.4  |       |       |       |       | 104.8 |
|                           | 60000  | 56.8   | 53.4   | 56.8   | 55.9   | 57.1   | 58.2   | 60.0   | 60.2   | 61.7   | 60.0   | 54.2  |       |       |       |       | 101.3 |
|                           | 80000  | 58.1   | 57.4   | 56.5   | 56.4   | 54.9   | 55.2   | 56.3   | 55.5   | 55.4   | 55.2   | 53.2  |       |       |       |       | 102.9 |
| OVERALL MEASURED          |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
| OVERALL CALCULATED        |        | 82.0   | 82.9   | 84.3   | 87.8   | 89.6   | 92.0   | 93.8   | 96.0   | 96.9   | 95.1   | 90.8  |       |       |       |       | 126.9 |
| PNMP                      |        | 94.1   | 95.1   | 96.4   | 94.5   | 102.8  | 103.4  | 106.7  | 106.6  | 109.5  | 108.1  | 103.8 |       |       |       |       |       |

MODEL SOUND PRESSURE LEVELS (50, 60, 70 PERCENT BELL NUM, EAV)  
 PHCC, DATE - MONTH 3 DAY 12 HR. 16.0  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                    | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 145    | 160    | 0    | 0   | 0   | 0   | 0   | 0   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|
| FREQ               | (0.82) | (1.08) | (1.24) | (1.41) | (1.58) | (1.75) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) | (0) |
| SIDELINE 200. FT.  | 30     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| ( 63.96 F )        | 120    | 24.6   | 28.7   | 34.4   | 38.4   | 43.9   | 48.9   | 50.4   | 45.9   | 47.4   | 47.5   | 46.6 |     |     |     |     |     |
| VEHICLE R-55       | 125    | 41.2   | 45.2   | 49.3   | 47.7   | 48.9   | 46.4   | 45.2   | 47.6   | 47.9   | 44.8   | 44.7 |     |     |     |     |     |
| CONFIG 45-13       | 160    | 40.9   | 42.3   | 42.7   | 44.5   | 44.6   | 44.8   | 46.4   | 40.8   | 46.4   | 46.5   | 44.9 |     |     |     |     |     |
| LOC SCHEMATIC      | 200    | 40.0   | 41.7   | 42.3   | 44.3   | 45.2   | 46.9   | 47.3   | 47.9   | 47.7   | 47.3   | 46.0 |     |     |     |     |     |
| DATE 1/17/75       | 270    | 43.2   | 44.9   | 46.5   | 47.7   | 47.9   | 47.8   | 48.7   | 48.6   | 47.8   | 45.2   | 44.3 |     |     |     |     |     |
| RUN 57/6           | 315    | 44.8   | 47.3   | 48.4   | 48.9   | 49.3   | 49.5   | 49.2   | 48.7   | 47.7   | 46.9   | 43.8 |     |     |     |     |     |
| TAPE               | 430    | 42.2   | 44.4   | 45.3   | 46.8   | 47.0   | 48.0   | 47.8   | 47.6   | 47.1   | 45.4   | 42.8 |     |     |     |     |     |
| EAR 30.2 HG        | 500    | 41.4   | 43.6   | 45.9   | 46.3   | 46.7   | 47.6   | 48.5   | 49.0   | 48.3   | 46.3   | 42.6 |     |     |     |     |     |
| (01690. N/M2)      | 670    | 45.1   | 46.5   | 48.1   | 49.7   | 50.5   | 51.5   | 52.4   | 52.4   | 51.1   | 48.3   | 42.6 |     |     |     |     |     |
| TAMP 31. DEG F     | 850    | 45.2   | 46.4   | 46.5   | 48.4   | 49.7   | 51.9   | 51.7   | 52.0   | 51.5   | 49.1   | 42.6 |     |     |     |     |     |
| (273. DEG K)       | 1030   | 42.5   | 44.7   | 45.9   | 48.7   | 50.4   | 52.3   | 53.6   | 54.6   | 53.4   | 51.6   | 42.2 |     |     |     |     |     |
| TACT 22. DEG F     | 1250   | 48.9   | 49.1   | 50.0   | 54.6   | 56.8   | 58.7   | 59.5   | 59.7   | 59.9   | 57.7   | 46.1 |     |     |     |     |     |
| (258. DEG K)       | 1650   | 45.4   | 45.9   | 47.6   | 50.7   | 53.2   | 55.1   | 56.0   | 62.5   | 54.9   | 52.4   | 42.2 |     |     |     |     |     |
| HACT 0.55 GN/M3    | 2000   | 40.4   | 42.2   | 43.9   | 47.3   | 49.0   | 50.9   | 51.6   | 51.5   | 50.4   | 47.5   | 39.2 |     |     |     |     |     |
| (1.0655 KG/M3)     | 2500   | 42.9   | 45.0   | 47.7   | 50.7   | 54.3   | 56.7   | 57.3   | 59.3   | 59.9   | 55.0   | 44.0 |     |     |     |     |     |
| NFA 5303 RPM       | 3150   | 43.7   | 45.2   | 47.1   | 50.4   | 53.8   | 56.6   | 56.7   | 57.7   | 57.7   | 54.5   | 42.2 |     |     |     |     |     |
| ( 584. RA/SEC)     | 4030   | 43.7   | 46.1   | 48.3   | 52.4   | 56.8   | 60.1   | 60.4   | 61.3   | 60.8   | 55.6   | 44.3 |     |     |     |     |     |
| NFK 5534 RPM       | 5000   | 41.4   | 43.8   | 46.7   | 51.3   | 55.2   | 58.3   | 60.3   | 59.9   | 59.3   | 54.4   | 41.0 |     |     |     |     |     |
| ( 579. RAD/SEC)    | 6300   | 40.4   | 42.7   | 46.3   | 50.4   | 54.8   | 56.5   | 56.5   | 58.6   | 57.8   | 52.0   | 39.0 |     |     |     |     |     |
| NFD 8623 RPM       | 8000   | 35.0   | 39.0   | 41.6   | 46.5   | 49.6   | 53.5   | 55.3   | 54.9   | 53.0   | 46.7   | 33.9 |     |     |     |     |     |
| ( 924. RA/SEC)     | 10000  | 33.7   | 37.2   | 40.1   | 45.6   | 49.5   | 52.9   | 54.0   | 54.7   | 53.7   | 45.6   | 31.3 |     |     |     |     |     |
| NO. OF BLADES 15   | 12500  | 30.4   | 33.2   | 36.4   | 42.0   | 46.2   | 48.3   | 50.8   | 51.0   | 49.6   | 40.6   | 24.6 |     |     |     |     |     |
| FAN TIP SPEED      | 16000  | 23.7   | 27.4   | 30.4   | 35.6   | 40.5   | 42.9   | 44.7   | 45.6   | 42.8   | 32.7   | 13.8 |     |     |     |     |     |
| 470. FT/SEC        | 20000  | 16.2   | 20.4   | 23.9   | 30.1   | 34.7   | 36.9   | 37.9   | 38.2   | 35.9   | 23.4   |      |     |     |     |     |     |
|                    | 25000  | 6.0    | 10.7   | 15.1   | 22.2   | 26.5   | 28.6   | 29.7   | 27.7   | 23.5   | 9.4    |      |     |     |     |     |     |
|                    | 31500  |        |        | 3.3    | 11.2   | 15.9   | 17.5   | 17.8   | 15.4   | 7.7    |        |      |     |     |     |     |     |
|                    | 40000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |     |
| OVERALL CALCULATED |        | 56.7   | 58.7   | 60.9   | 63.6   | 65.8   | 67.7   | 68.6   | 69.7   | 68.5   | 64.7   | 56.5 |     |     |     |     |     |
| PNDR               |        | 67.7   | 69.9   | 72.1   | 75.6   | 78.9   | 81.6   | 82.2   | 83.0   | 82.2   | 77.8   | 67.6 |     |     |     |     |     |

870

MODEL SU-70 PRESSURE LF VFLS (59. DEG. F. 70 PERCENT. L. MUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                           | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0     | 0    | 0    | 0  | 0  | 0  | PHL   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|----|----|----|-------|
|                           | (0.07) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0     | 0    | 0    | 0  | 0  | 0  | PHL   |
| RADIAL 17. FT.            | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50    | 50   | 50   | 50 | 50 | 50 | 109.2 |
| VEHICLE (S. M)            | 100    | 59.7   | 73.2   | 76.2   | 77.7   | 77.5   | 77.4   | 73.0   | 67.8   | 72.2   | 74.8   | 77.2  |      |      |    |    |    | 109.2 |
| CONFIG 75-1K              | 120    | 65.2   | 69.4   | 71.7   | 71.2   | 71.0   | 67.4   | 68.3   | 67.6   | 68.5   | 70.3   | 72.2  | 72.3 | 75.2 |    |    |    | 105.0 |
| LCC SCHEMECTARY           | 160    | 64.7   | 65.7   | 65.4   | 67.0   | 64.3   | 67.6   | 68.5   | 67.6   | 68.5   | 70.3   | 72.2  | 73.5 | 76.2 |    |    |    | 103.0 |
| DATE 1/17/75              | 250    | 64.2   | 64.4   | 64.9   | 64.5   | 67.5   | 69.1   | 70.0   | 71.5   | 72.9   | 74.3   | 76.6  |      |      |    |    |    | 104.5 |
| RUN 54/1                  | 250    | 67.7   | 68.4   | 69.4   | 69.7   | 71.0   | 71.1   | 72.0   | 72.2   | 72.7   | 73.5   | 75.6  |      |      |    |    |    | 105.5 |
| TARE                      | 315    | 68.7   | 69.2   | 70.1   | 71.5   | 71.1   | 71.4   | 71.5   | 71.7   | 72.5   | 73.5   | 75.4  |      |      |    |    |    | 105.7 |
| BAR 30.2 MG               | 400    | 64.3   | 67.7   | 67.9   | 68.4   | 69.1   | 69.7   | 69.8   | 71.3   | 72.0   | 73.0   | 74.2  |      |      |    |    |    | 104.3 |
| (101670. N/M2)            | 500    | 64.1   | 67.6   | 67.4   | 67.9   | 67.6   | 70.0   | 71.3   | 72.5   | 73.5   | 74.0   | 74.2  |      |      |    |    |    | 105.0 |
| TAMB 32. DEG F            | 630    | 70.1   | 70.0   | 71.4   | 72.5   | 72.9   | 74.2   | 75.8   | 75.8   | 76.0   | 75.8   | 74.9  |      |      |    |    |    | 108.1 |
| (273. DEG K)              | 800    | 69.6   | 69.0   | 69.4   | 71.3   | 71.4   | 73.2   | 74.8   | 75.5   | 76.5   | 76.5   | 74.5  |      |      |    |    |    | 107.7 |
| T-ET 23. DEG F            | 1000   | 68.4   | 67.5   | 67.4   | 70.6   | 70.9   | 73.2   | 75.0   | 77.0   | 78.2   | 78.3   | 73.7  |      |      |    |    |    | 108.3 |
| (268. DEG K)              | 1250   | 69.7   | 68.0   | 70.2   | 73.1   | 74.7   | 77.0   | 78.1   | 80.3   | 82.3   | 82.9   | 77.0  |      |      |    |    |    | 112.0 |
| MACT 0.69 CM/MS           | 1500   | 64.4   | 64.3   | 65.5   | 68.2   | 69.7   | 71.5   | 73.0   | 74.0   | 74.5   | 75.1   | 71.5  |      |      |    |    |    | 105.8 |
| (00069 CM/MS)             | 2000   | 62.9   | 64.3   | 65.3   | 67.4   | 69.3   | 71.0   | 73.5   | 75.5   | 77.0   | 77.6   | 73.7  |      |      |    |    |    | 108.9 |
| NFA 5361. RPM             | 2500   | 70.4   | 72.3   | 75.4   | 77.5   | 79.7   | 82.3   | 84.0   | 86.0   | 89.0   | 87.1   | 80.7  |      |      |    |    |    | 117.5 |
| (503. RAD/SEC)            | 3150   | 68.9   | 71.3   | 72.9   | 74.5   | 79.5   | 82.5   | 84.0   | 84.9   | 86.2   | 85.3   | 79.1  |      |      |    |    |    | 116.2 |
| NFK 5527. RPM             | 4000   | 71.3   | 72.7   | 74.5   | 76.1   | 82.4   | 85.2   | 86.8   | 88.3   | 89.6   | 87.0   | 81.3  |      |      |    |    |    | 119.1 |
| (579. RAD/SEC)            | 5000   | 67.4   | 63.7   | 70.9   | 75.1   | 78.1   | 81.9   | 84.5   | 85.0   | 85.0   | 83.2   | 76.9  |      |      |    |    |    | 115.5 |
| NFD 8823. RPM             | 6300   | 66.7   | 67.6   | 69.8   | 73.7   | 77.1   | 80.4   | 82.9   | 84.5   | 85.2   | 82.3   | 78.0  |      |      |    |    |    | 114.9 |
| (924. RAD/SEC)            | 8000   | 65.2   | 67.4   | 69.0   | 73.5   | 76.7   | 80.1   | 82.9   | 83.8   | 85.5   | 82.2   | 76.7  |      |      |    |    |    | 114.8 |
| NO. OF BLADES 15          | 10000  | 64.6   | 65.9   | 67.6   | 72.7   | 76.4   | 80.0   | 82.2   | 84.4   | 86.0   | 81.6   | 76.0  |      |      |    |    |    | 115.0 |
| FAW TIP SPEED 470. FT/SEC | 12500  | 64.1   | 65.1   | 66.8   | 71.4   | 75.6   | 78.2   | 80.7   | 83.3   | 85.5   | 80.5   | 75.5  |      |      |    |    |    | 114.2 |
|                           | 16000  | 62.0   | 63.0   | 64.8   | 69.4   | 73.2   | 76.1   | 78.4   | 81.8   | 83.2   | 79.0   | 73.7  |      |      |    |    |    | 112.7 |
|                           | 20000  | 61.1   | 61.9   | 63.1   | 68.0   | 72.7   | 75.6   | 78.2   | 80.6   | 83.3   | 78.7   | 72.6  |      |      |    |    |    | 112.5 |
|                           | 25000  | 59.6   | 60.7   | 61.8   | 66.1   | 71.2   | 73.9   | 76.0   | 78.9   | 80.7   | 76.3   | 70.4  |      |      |    |    |    | 111.1 |
|                           | 31500  | 57.6   | 59.1   | 60.5   | 64.7   | 70.3   | 73.1   | 75.4   | 77.5   | 79.1   | 75.7   | 68.1  |      |      |    |    |    | 110.7 |
|                           | 40000  | 56.0   | 55.8   | 57.8   | 62.9   | 65.8   | 68.9   | 71.3   | 73.1   | 75.5   | 71.3   | 62.1  |      |      |    |    |    | 108.1 |
|                           | 50000  | 56.0   | 55.1   | 57.3   | 59.5   | 61.8   | 64.1   | 66.3   | 67.7   | 69.3   | 66.7   | 57.5  |      |      |    |    |    | 104.7 |
|                           | 63000  | 56.6   | 53.5   | 56.9   | 58.9   | 57.4   | 58.1   | 60.6   | 60.3   | 61.8   | 60.1   | 54.8  |      |      |    |    |    | 101.9 |
|                           | 80000  | 57.7   | 57.8   | 56.2   | 54.8   | 55.8   | 55.1   | 55.9   | 55.1   | 55.8   | 54.8   | 53.3  |      |      |    |    |    | 102.7 |
| OVERALL MEASUREMENT       |        |        |        |        |        |        |        |        |        |        |        |       |      |      |    |    |    |       |
| OVERALL CALCULATED        |        | 81.3   | 82.6   | 84.4   | 87.2   | 89.4   | 92.1   | 94.0   | 95.5   | 97.1   | 94.8   | 90.3  |      |      |    |    |    | 126.8 |
| PRDA                      |        | 94.1   | 95.4   | 97.1   | 100.6  | 103.2  | 105.7  | 107.4  | 108.8  | 110.1  | 108.3  | 103.8 |      |      |    |    |    |       |

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                           | 57      | 62      | 71      | 81      | 91      | 101     | 111     | 122     | 133     | 145     | 156     | 0   | 0   | 0    | 0    | 0    | 0    |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|-----|------|------|------|------|
| FREQ.                     | (10.92) | (11.06) | (11.24) | (11.41) | (11.58) | (11.76) | (11.94) | (12.13) | (12.32) | (12.52) | (12.73) | (0) | (0) | (10) | (10) | (10) | (10) |
| SIDELINE 200. FT.         | 50      | 53      | 59      |         |         |         |         |         |         |         |         |     |     |      |      |      |      |
| VEHICLE (60.96 MI)        | 100     | 46.1    | 50.5    | 54.1    | 56.0    | 54.7    | 50.8    | 44.7    | 47.9    | 44.2    | 47.1    |     |     |      |      |      |      |
| CONFIG R-55               | 125     | 42.5    | 46.6    | 49.5    | 49.5    | 46.6    | 46.0    | 44.4    | 47.7    | 45.6    | 44.9    |     |     |      |      |      |      |
| LOC SCHEMECTADY           | 160     | 43.9    | 42.0    | 44.2    | 45.1    | 44.5    | 44.6    | 44.2    | 47.0    | 47.4    | 46.7    |     |     |      |      |      |      |
| DATE 1/17/75              | 200     | 40.3    | 41.4    | 42.6    | 44.5    | 45.7    | 47.2    | 47.6    | 44.2    | 48.2    | 47.3    |     |     |      |      |      |      |
| RUN 58/1                  | 250     | 43.7    | 45.4    | 47.0    | 47.7    | 48.2    | 49.1    | 49.5    | 48.8    | 47.8    | 48.4    |     |     |      |      |      |      |
| TAPE                      | 315     | 44.6    | 46.8    | 47.7    | 48.4    | 49.1    | 49.3    | 48.9    | 44.2    | 47.5    | 44.3    |     |     |      |      |      |      |
| BAR 30.2 MG               | 400     | 42.0    | 41.4    | 45.3    | 46.5    | 47.0    | 47.5    | 47.1    | 47.6    | 46.9    | 45.6    |     |     |      |      |      |      |
| TAMB 32. DEG F            | 500     | 41.7    | 43.6    | 44.8    | 46.4    | 47.4    | 47.6    | 48.5    | 46.8    | 44.3    | 46.5    |     |     |      |      |      |      |
| THET 23. DEG F            | 600     | 45.6    | 46.5    | 48.7    | 50.2    | 50.6    | 51.8    | 52.9    | 51.9    | 50.4    | 48.1    |     |     |      |      |      |      |
| MACT 0.69 CM/MS           | 800     | 44.9    | 45.2    | 46.5    | 48.6    | 49.0    | 50.7    | 51.8    | 51.5    | 51.0    | 49.8    |     |     |      |      |      |      |
| NFA 5381. RPM             | 1000    | 41.6    | 43.9    | 44.4    | 48.0    | 48.4    | 50.6    | 51.9    | 52.0    | 52.5    | 50.1    |     |     |      |      |      |      |
| NFX 5327. RPM             | 1200    | 44.2    | 44.1    | 47.0    | 50.4    | 52.1    | 54.2    | 54.7    | 56.0    | 56.4    | 54.4    |     |     |      |      |      |      |
| NFD 8423. RPM             | 1400    | 37.2    | 40.2    | 42.1    | 45.2    | 46.9    | 48.6    | 49.5    | 49.5    | 48.4    | 46.4    |     |     |      |      |      |      |
| NO. OF BLADES 15          | 2000    | 37.5    | 40.0    | 41.4    | 44.1    | 46.0    | 47.9    | 49.8    | 50.6    | 50.6    | 48.6    |     |     |      |      |      |      |
| PAN TIP SPEED 470. FT/SEC | 2500    | 4.7     | 47.8    | 51.7    | 54.2    | 56.6    | 59.0    | 60.1    | 61.1    | 62.4    | 57.8    |     |     |      |      |      |      |
|                           | 3150    | 42.8    | 46.5    | 48.9    | 52.2    | 56.1    | 59.9    | 59.8    | 59.7    | 59.2    | 54.5    |     |     |      |      |      |      |
|                           | 4000    | 44.7    | 47.4    | 50.1    | 55.2    | 58.6    | 61.2    | 62.2    | 62.6    | 62.0    | 56.4    |     |     |      |      |      |      |
|                           | 5000    | 40.6    | 43.1    | 46.2    | 50.9    | 54.0    | 57.6    | 59.6    | 58.9    | 57.1    | 52.2    |     |     |      |      |      |      |
|                           | 6000    | 38.9    | 41.3    | 44.4    | 48.7    | 52.4    | 55.8    | 57.3    | 57.6    | 56.3    | 50.1    |     |     |      |      |      |      |
|                           | 8000    | 38.1    | 39.8    | 42.4    | 47.5    | 50.9    | 54.0    | 56.1    | 55.7    | 55.1    | 48.0    |     |     |      |      |      |      |
|                           | 10000   | 33.5    | 36.5    | 39.4    | 45.1    | 49.0    | 52.4    | 53.8    | 54.5    | 53.5    | 44.7    |     |     |      |      |      |      |
|                           | 12500   | 30.2    | 33.2    | 36.2    | 42.0    | 46.0    | 48.4    | 49.9    | 50.8    | 49.9    | 39.7    |     |     |      |      |      |      |
|                           | 16000   | 23.5    | 27.3    | 30.5    | 35.9    | 40.1    | 42.6    | 44.7    | 44.9    | 42.8    | 31.8    |     |     |      |      |      |      |
|                           | 20000   | 16.3    | 20.3    | 23.7    | 30.7    | 34.4    | 37.3    | 38.4    | 38.0    | 36.0    | 23.0    |     |     |      |      |      |      |
|                           | 25000   | 6.3     | 11.5    | 15.2    | 23.0    | 28.6    | 28.7    | 29.8    | 28.3    | 23.6    | 8.4     |     |     |      |      |      |      |
|                           | 31500   |         |         | 3.4     | 11.6    | 15.7    | 17.8    | 17.6    | 14.9    | 8.3     |         |     |     |      |      |      |      |
|                           | 40000   |         |         |         |         |         |         |         |         |         |         |     |     |      |      |      |      |
|                           | 50000   |         |         |         |         |         |         |         |         |         |         |     |     |      |      |      |      |
|                           | 63600   |         |         |         |         |         |         |         |         |         |         |     |     |      |      |      |      |
|                           | 80000   |         |         |         |         |         |         |         |         |         |         |     |     |      |      |      |      |
| OVERALL CALCULATED        | 55.9    | 58.3    | 60.9    | 63.6    | 65.5    | 67.7    | 68.7    | 68.9    | 68.6    | 64.4    | 56.8    |     |     |      |      |      |      |
| PNDN                      | 67.8    | 70.1    | 72.9    | 76.7    | 79.4    | 81.8    | 82.9    | 83.1    | 82.7    | 78.1    | 68.3    |     |     |      |      |      |      |

DC 5572

MODEL SOUND PRESSURE LFVFLS 159. HFG. F. 70 PERCENT @ L. NUM. CAV!  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

PRG. DATE = MONTH 3 DAY 25 HR. 14.4

FREQ. 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 PNL  
 (0.921)(1.081)(1.241)(1.411)(1.581)(1.761)(1.941)(2.131)(2.321)(2.521)(2.731)(3.0 10° 110° 120° 130° 140° 150°)

|                    |       |      |      |       |       |       |       |       |       |       |       |       |     |     |     |     |       |
|--------------------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|
| RADIAL 17. FT.     | 50    | 60   | 70   | 80    | 90    | 100   | 110   | 120   | 130   | 140   | 150   | 160   | 170 | 180 | 190 | 200 |       |
| ( S. M.)           | 80    | 74.3 | 75.3 | 74.6  | 75.7  | 74.4  | 76.4  | 69.4  | 69.9  | 72.5  | 74.6  | 79.9  |     |     |     |     | 108.7 |
| VEHICLE R-55       | 100   | 74.3 | 75.3 | 74.6  | 75.7  | 74.4  | 76.4  | 69.4  | 69.9  | 72.5  | 74.6  | 79.9  |     |     |     |     | 107.3 |
| CONFIG 75-1K       | 150   | 69.3 | 69.4 | 70.1  | 70.4  | 70.1  | 70.4  | 72.0  | 74.2  | 75.7  | 78.1  | 80.1  |     |     |     |     | 107.8 |
| LCC SCHEMECTARY    | 200   | 64.3 | 65.1 | 69.4  | 70.2  | 71.4  | 73.6  | 74.4  | 75.9  | 76.7  | 79.6  | 81.3  |     |     |     |     | 109.0 |
| DATE 1/17/75       | 250   | 71.0 | 71.6 | 72.1  | 73.2  | 73.4  | 73.9  | 75.4  | 75.4  | 76.2  | 78.3  | 79.1  |     |     |     |     | 108.9 |
| RUN 58/2           | 315   | 72.6 | 73.4 | 73.1  | 74.4  | 74.6  | 74.9  | 75.1  | 75.7  | 76.2  | 78.1  | 79.1  |     |     |     |     | 109.4 |
| TAPE               | 400   | 75.3 | 76.6 | 77.9  | 71.7  | 72.1  | 73.4  | 74.1  | 74.4  | 76.0  | 77.4  | 78.1  |     |     |     |     | 108.0 |
| BAR 30.2 HG        | 500   | 73.1 | 73.7 | 70.7  | 71.7  | 71.9  | 73.0  | 74.4  | 75.9  | 76.5  | 77.9  | 77.4  |     |     |     |     | 108.2 |
| (31890. 1/1/2)     | 630   | 72.9 | 72.7 | 74.2  | 75.3  | 75.7  | 76.7  | 76.6  | 76.9  | 78.5  | 79.6  | 77.4  |     |     |     |     | 111.0 |
| TAMB 32. DEG F     | 900   | 72.2 | 72.7 | 72.7  | 74.0  | 74.4  | 75.7  | 77.4  | 78.4  | 79.0  | 79.1  | 77.2  |     |     |     |     | 110.4 |
| (273. DEG K)       | 1000  | 69.7 | 70.7 | 70.4  | 73.3  | 74.0  | 75.5  | 77.9  | 79.7  | 80.3  | 80.1  | 76.7  |     |     |     |     | 110.7 |
| INLET 23. DEG F    | 1250  | 69.5 | 69.2 | 70.7  | 72.6  | 74.5  | 76.0  | 78.1  | 79.4  | 80.3  | 81.2  | 76.4  |     |     |     |     | 110.9 |
| (268. DEG K)       | 1500  | 71.2 | 71.0 | 71.7  | 73.6  | 74.5  | 76.5  | 79.6  | 79.7  | 81.0  | 81.4  | 75.2  |     |     |     |     | 112.0 |
| MACT 0.69 CM/M3    | 2000  | 67.5 | 67.8 | 69.9  | 70.6  | 72.5  | 74.1  | 76.6  | 78.4  | 79.5  | 79.7  | 74.7  |     |     |     |     | 109.6 |
| (0.0369 KG/M3)     | 2500  | 70.5 | 72.6 | 73.4  | 75.9  | 78.3  | 80.1  | 82.3  | 84.6  | 86.5  | 83.9  | 78.1  |     |     |     |     | 115.4 |
| NFA 6141. RPM      | 3100  | 73.7 | 76.2 | 78.1  | 81.4  | 84.3  | 87.9  | 90.0  | 90.1  | 93.0  | 90.2  | 84.1  |     |     |     |     | 121.8 |
| ( 643. 0A-/SEC)    | 4000  | 73.8 | 75.7 | 77.3  | 81.1  | 84.3  | 87.2  | 89.9  | 90.0  | 90.4  | 87.3  | 81.7  |     |     |     |     | 120.7 |
| NFK 6307. RPM      | 5000  | 73.7 | 75.6 | 76.7  | 79.4  | 82.7  | 86.1  | 89.8  | 89.6  | 89.6  | 85.5  | 80.1  |     |     |     |     | 119.9 |
| ( 643. RAD/SEC)    | 6300  | 70.8 | 72.1 | 74.1  | 77.4  | 80.2  | 84.9  | 87.5  | 88.1  | 88.5  | 84.2  | 79.7  |     |     |     |     | 118.4 |
| NFC 6423. RPM      | 8000  | 69.3 | 71.6 | 73.0  | 77.7  | 81.5  | 83.9  | 87.2  | 88.5  | 88.5  | 85.0  | 79.2  |     |     |     |     | 118.6 |
| ( 624. RAD/SEC)    | 10000 | 69.7 | 70.3 | 72.4  | 74.9  | 81.9  | 84.0  | 86.6  | 84.6  | 89.5  | 83.5  | 78.5  |     |     |     |     | 118.8 |
| NO. OF BLADES 15   | 12500 | 68.4 | 69.6 | 71.4  | 76.2  | 79.7  | 82.2  | 85.0  | 84.3  | 88.5  | 83.3  | 78.5  |     |     |     |     | 118.1 |
| FAN TIP SPEED      | 16000 | 65.8 | 66.7 | 68.4  | 73.3  | 77.3  | 80.1  | 83.3  | 86.0  | 86.5  | 81.4  | 76.2  |     |     |     |     | 116.3 |
| 536. FT/SEC        | 20000 | 65.2 | 66.1 | 64.4  | 72.4  | 76.7  | 79.9  | 83.3  | 85.7  | 87.8  | 81.8  | 76.3  |     |     |     |     | 117.1 |
|                    | 25000 | 64.2 | 64.9 | 67.0  | 71.8  | 74.8  | 78.2  | 81.2  | 84.1  | 84.7  | 79.6  | 74.1  |     |     |     |     | 115.5 |
|                    | 31500 | 63.0 | 63.8 | 66.0  | 70.7  | 74.6  | 77.4  | 79.8  | 82.6  | 83.1  | 78.6  | 71.6  |     |     |     |     | 115.0 |
|                    | 40000 | 61.6 | 61.3 | 64.0  | 67.4  | 73.4  | 73.5  | 76.9  | 78.0  | 79.3  | 75.3  | 68.1  |     |     |     |     | 112.8 |
|                    | 50000 | 63.1 | 61.3 | 63.6  | 64.5  | 68.7  | 69.4  | 72.2  | 72.2  | 73.1  | 70.5  | 62.2  |     |     |     |     | 109.4 |
|                    | 63000 | 64.0 | 61.2 | 64.4  | 62.7  | 64.0  | 64.6  | 66.7  | 65.7  | 66.1  | 64.8  | 61.5  |     |     |     |     | 107.5 |
|                    | 80000 | 66.5 | 62.5 | 65.2  | 62.6  | 62.9  | 63.6  | 64.0  | 63.3  | 62.3  | 62.6  | 61.5  |     |     |     |     | 110.5 |
| OVERALL MEASURED   |       |      |      |       |       |       |       |       |       |       |       |       |     |     |     |     | 120.1 |
| OVERALL CALCULATED |       | 85.1 | 86.8 | 87.1  | 89.9  | 92.4  | 95.1  | 97.9  | 99.0  | 100.0 | 96.9  | 93.0  |     |     |     |     |       |
| PNL                |       | 97.4 | 99.3 | 100.4 | 103.2 | 105.7 | 108.2 | 110.8 | 111.3 | 113.1 | 110.8 | 106.1 |     |     |     |     |       |

ANGLE FROM INLET IN DEGREES (AND RADIANS)

|                    | 57.5  | 62.0  | 71.0  | 81.0  | 91.0  | 101.0 | 111.0 | 122.0 | 133.0 | 145.0 | 155.0 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SIDELINE 200. FT.  | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    |
| VEHICLE R-55       | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   | 125   |
| CONFIG 75-1R       | 160   | 160   | 160   | 160   | 160   | 160   | 160   | 160   | 160   | 160   | 160   | 160   | 160   | 160   | 160   | 160   |
| LOC SENELECTADV    | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   |
| DATE 1/17/75       | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   |
| PCN 58/2           | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   | 315   |
| TAPE               | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   |
| GAR 30-2 HG        | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   |
| (01000. 1/2)       | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   | 630   |
| TANG 2. DEG F      | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   | 800   |
| (273. 3EG F)       | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  |
| T-CT 23. DEG F     | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  |
| (264. 3EG F)       | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  | 1500  |
| WACT 0.09 CM/MT    | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  |
| (2000.00 KG/MT)    | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  |
| NFA 61.1. RPM      | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  |
| (643. 242/SEC)     | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  |
| NFF 6307. RPM      | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  |
| (660. 242/SEC)     | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  | 6300  |
| NFD 8423. RPM      | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  |
| (924. 242/SEC)     | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 |
| NO. OF BLADES 15   | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 |
| FAN TIP SPEED      | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 |
| 536. FT/SEC        | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 |
|                    | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 |
|                    | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 |
|                    | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 |
|                    | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 |
|                    | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 | 63000 |
|                    | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 | 80000 |
| OVERALL CALCULATOR | 59.7  | 61.6  | 63.1  | 65.8  | 69.1  | 70.3  | 72.3  | 71.9  | 71.2  | 66.4  | 59.7  |       |       |       |       |       |
| PNDR               | 71.1  | 74.0  | 76.2  | 79.6  | 82.2  | 84.4  | 86.4  | 85.9  | 85.0  | 80.9  | 71.2  |       |       |       |       |       |

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OF 2000 QUANTITY



WATER SUPPLY PRESSURE OF LEVEL (50. DEG. F) 70 DEGREE L. NUM. (AVI)  
 ANGLE FROM INLET IN DEGREES (AND RADIAN)

574

|                     | 33°    | 62°    | 71°    | 81°    | 91°    | 101°   | 111°   | 122°   | 133°   | 145°   | 156°   | 0°    | 0°  | 0°   | 0°   | 0°   | 0°   | PML  |       |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|------|------|------|------|------|-------|
| FREQ.               | (0.92) | (1.00) | (1.24) | (1.41) | (1.54) | (1.75) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 10.   | 10. | 110. | 110. | 110. | 110. | 110. |       |
| RADIAL 17. FT.      | 100    | 87.8   | 74.4   | 74.6   | 72.7   | 72.7   | 72.4   | 72.1   | 72.7   | 74.0   | 80.3   | 84.4  |     |      |      |      |      |      | 110.1 |
| VEHICLE 5. MI       | 120    | 71.5   | 77.5   | 70.4   | 77.2   | 77.1   | 75.2   | 74.4   | 77.2   | 74.2   | 80.6   | 83.6  |     |      |      |      |      |      | 112.3 |
| CONFIG 75-1K        | 160    | 72.0   | 72.4   | 72.4   | 73.4   | 73.4   | 73.4   | 76.4   | 77.4   | 79.2   | 81.6   | 84.1  |     |      |      |      |      |      | 111.2 |
| LCC SCHEDULE        | 200    | 71.0   | 71.4   | 71.9   | 72.9   | 74.1   | 75.9   | 76.9   | 76.9   | 80.0   | 83.1   | 85.1  |     |      |      |      |      |      | 112.2 |
| DATE 1/17/75        | 250    | 74.5   | 74.5   | 75.6   | 76.7   | 77.1   | 77.1   | 78.6   | 79.4   | 80.2   | 82.1   | 83.6  |     |      |      |      |      |      | 112.7 |
| RUN 5/3             | 315    | 75.2   | 74.4   | 76.4   | 77.2   | 77.4   | 77.2   | 78.4   | 79.2   | 80.2   | 82.1   | 83.6  |     |      |      |      |      |      | 112.9 |
| TAPE                | 450    | 71.6   | 74.1   | 71.9   | 75.2   | 75.1   | 76.2   | 77.1   | 77.9   | 79.0   | 81.1   | 82.6  |     |      |      |      |      |      | 111.5 |
| EAR 30.2 MG         | 500    | 71.9   | 72.7   | 73.2   | 74.5   | 74.7   | 76.2   | 77.4   | 78.7   | 79.7   | 80.9   | 81.9  |     |      |      |      |      |      | 111.4 |
| 101890. 1/21        | 630    | 75.7   | 74.9   | 76.4   | 77.5   | 78.4   | 79.5   | 80.6   | 81.4   | 81.5   | 82.1   | 81.4  |     |      |      |      |      |      | 113.6 |
| TAPE 31. DEG F      | 800    | 74.9   | 75.7   | 75.4   | 76.7   | 77.4   | 78.5   | 79.9   | 80.7   | 81.8   | 82.1   | 81.1  |     |      |      |      |      |      | 113.1 |
| 1273. DEG K1        | 1000   | 72.7   | 73.7   | 73.7   | 75.5   | 76.7   | 78.2   | 80.4   | 81.4   | 82.2   | 82.6   | 79.9  |     |      |      |      |      |      | 113.1 |
| T-ET 22. DEG F      | 1250   | 72.0   | 71.7   | 72.9   | 75.0   | 76.7   | 78.3   | 79.6   | 80.7   | 82.0   | 82.2   | 79.4  |     |      |      |      |      |      | 112.6 |
| 1284. DEG K1        | 1500   | 71.2   | 71.5   | 71.7   | 74.1   | 75.4   | 76.5   | 78.4   | 78.9   | 79.5   | 79.9   | 77.4  |     |      |      |      |      |      | 110.9 |
| HACT 0.55 G/M3      | 2000   | 71.2   | 71.7   | 72.4   | 75.1   | 75.3   | 77.5   | 79.6   | 80.9   | 82.3   | 81.4   | 77.6  |     |      |      |      |      |      | 112.4 |
| 1.50055 KG/M3       | 2500   | 71.4   | 75.0   | 75.9   | 77.1   | 81.3   | 82.3   | 84.3   | 86.1   | 88.5   | 84.9   | 80.4  |     |      |      |      |      |      | 117.3 |
| NFA 602A. RPM       | 3150   | 75.6   | 78.7   | 79.1   | 84.4   | 87.5   | 89.5   | 91.8   | 91.8   | 93.5   | 89.9   | 84.1  |     |      |      |      |      |      | 123.1 |
| 1 725. 1A-1/SEC     | 4000   | 77.3   | 79.3   | 81.0   | 85.1   | 88.2   | 90.9   | 93.8   | 93.2   | 93.6   | 90.0   | 85.7  |     |      |      |      |      |      | 124.2 |
| NFK 7123. RPM       | 5000   | 75.5   | 77.6   | 78.9   | 84.5   | 86.1   | 90.1   | 92.3   | 93.1   | 91.0   | 87.7   | 82.4  |     |      |      |      |      |      | 122.9 |
| 1 746. 1A-1/SEC     | 6300   | 73.5   | 75.8   | 77.5   | 81.3   | 84.4   | 87.2   | 90.2   | 91.6   | 92.2   | 87.1   | 81.9  |     |      |      |      |      |      | 121.6 |
| NFD 8823. RPM       | 8000   | 73.0   | 75.6   | 77.7   | 81.7   | 84.7   | 88.3   | 90.2   | 91.2   | 92.5   | 84.0   | 82.4  |     |      |      |      |      |      | 122.0 |
| 1 924. 1A-1/SEC     | 10000  | 72.1   | 74.0   | 76.6   | 81.6   | 83.7   | 88.2   | 90.5   | 91.1   | 92.2   | 87.1   | 81.4  |     |      |      |      |      |      | 122.0 |
| NO. OF BLADES 15    | 12500  | 71.9   | 73.2   | 75.2   | 80.9   | 83.9   | 86.9   | 89.9   | 91.2   | 92.5   | 86.8   | 81.0  |     |      |      |      |      |      | 121.9 |
| FAN TIP SPEED 16000 | 16000  | 69.0   | 70.4   | 72.2   | 77.8   | 81.0   | 84.3   | 87.5   | 89.7   | 90.0   | 84.6   | 79.6  |     |      |      |      |      |      | 120.0 |
| 605. FT/SEC 20000   | 20000  | 68.9   | 69.4   | 72.3   | 77.4   | 80.4   | 83.9   | 87.0   | 89.2   | 90.5   | 85.5   | 79.5  |     |      |      |      |      |      | 120.4 |
| 25000               | 25000  | 67.4   | 68.6   | 70.9   | 77.5   | 79.5   | 82.9   | 85.7   | 87.8   | 88.9   | 84.1   | 77.8  |     |      |      |      |      |      | 119.6 |
| 31500               | 31500  | 65.9   | 67.2   | 70.2   | 76.3   | 78.3   | 81.4   | 84.2   | 86.4   | 87.3   | 82.4   | 75.3  |     |      |      |      |      |      | 119.2 |
| 40000               | 40000  | 64.5   | 63.7   | 66.4   | 71.3   | 74.5   | 77.9   | 81.0   | 82.3   | 83.2   | 79.0   | 69.3  |     |      |      |      |      |      | 116.6 |
| 50000               | 50000  | 63.2   | 61.9   | 64.5   | 67.1   | 69.8   | 72.8   | 76.3   | 76.6   | 77.4   | 74.1   | 64.6  |     |      |      |      |      |      | 113.3 |
| 63000               | 63000  | 63.6   | 60.9   | 63.6   | 67.8   | 64.2   | 66.5   | 69.3   | 69.1   | 69.7   | 67.6   | 61.4  |     |      |      |      |      |      | 109.4 |
| 80000               | 80000  | 66.4   | 62.3   | 65.0   | 67.9   | 63.0   | 63.5   | 64.4   | 63.6   | 64.0   | 63.2   | 61.4  |     |      |      |      |      |      | 110.7 |
| OVERALL MEASURED    |        |        |        |        |        |        |        |        |        |        |        |       |     |      |      |      |      |      |       |
| OVERALL CALCULATED  |        | 87.4   | 89.2   | 90.1   | 93.5   | 95.9   | 98.7   | 101.1  | 102.0  | 102.7  | 99.2   | 96.3  |     |      |      |      |      |      | 133.1 |
| PMS                 |        | 100.2  | 102.3  | 103.2  | 107.0  | 109.1  | 111.6  | 113.9  | 114.1  | 114.7  | 112.1  | 108.6 |     |      |      |      |      |      |       |

MODEL SOUND PRESSURE LEVELS (90. DFG. F. 70 PERCENT O L. NUM. BAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.                     | 57    | 62    | 71    | 81    | 91    | 101   | 111   | 122   | 133   | 145   | 159   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
|                           | 13.02 | 11.08 | 11.24 | 11.41 | 11.58 | 11.76 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 10.  | 110. | 110. | 110. | 110. | 110. |
| SIDELINE 200. FT.         | 50    |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |
| VEHICLE R-59              | 100   | 44.1  | 51.0  | 52.6  | 51.0  | 51.3  | 50.7  | 49.9  | 49.6  | 51.6  | 53.0  | 54.3 |      |      |      |      |      |
| CONFIG 75-14              | 125   | 43.4  | 50.4  | 52.2  | 50.2  | 51.5  | 51.7  | 51.5  | 54.0  | 54.2  | 54.6  | 54.8 | 53.6 |      |      |      |      |
| LCC SCHENECTADY           | 150   | 43.2  | 49.5  | 50.2  | 51.5  | 51.7  | 51.5  | 54.0  | 54.2  | 54.6  | 54.8  | 53.6 |      |      |      |      |      |
| DATE 1/17/75              | 200   | 47.1  | 48.4  | 49.6  | 51.0  | 52.3  | 53.9  | 54.4  | 55.6  | 55.2  | 56.1  | 54.4 |      |      |      |      |      |
| RUN 58/3                  | 250   | 50.5  | 51.6  | 53.2  | 54.7  | 55.2  | 55.1  | 56.1  | 56.0  | 55.4  | 55.0  | 52.7 |      |      |      |      |      |
| TAPE                      | 314   | 51.6  | 51.2  | 51.9  | 55.1  | 54.4  | 55.0  | 54.0  | 55.6  | 55.3  | 54.0  | 52.9 |      |      |      |      |      |
| BAR 30.2 HG               | 400   | 40.6  | 50.7  | 51.3  | 53.2  | 53.1  | 54.0  | 54.4  | 54.3  | 53.9  | 51.3  | 51.3 |      |      |      |      |      |
| (01890. N/M2)             | 500   | 47.5  | 49.3  | 50.5  | 52.2  | 52.3  | 53.9  | 54.0  | 54.9  | 54.5  | 53.3  | 50.3 |      |      |      |      |      |
| TAMP 31. DEG F            | 670   | 50.6  | 51.4  | 53.6  | 55.1  | 54.2  | 57.1  | 54.0  | 57.6  | 56.1  | 54.4  | 49.8 |      |      |      |      |      |
| (273. DEG K)              | 870   | 50.2  | 52.1  | 52.5  | 54.3  | 53.1  | 56.0  | 56.0  | 56.7  | 56.2  | 54.2  | 49.0 |      |      |      |      |      |
| T-ET 22. DEG F            | 1000  | 47.9  | 49.9  | 50.6  | 52.9  | 54.2  | 55.0  | 57.2  | 57.3  | 56.5  | 54.4  | 47.4 |      |      |      |      |      |
| (268. DEG K)              | 1250  | 47.0  | 47.8  | 49.0  | 52.3  | 54.1  | 55.5  | 56.3  | 56.4  | 56.1  | 53.7  | 46.6 |      |      |      |      |      |
| NACT 0.55 GM/M3           | 1600  | 44.0  | 47.4  | 48.3  | 51.2  | 53.0  | 53.6  | 54.9  | 54.4  | 53.4  | 51.2  | 44.1 |      |      |      |      |      |
| (.00055 KG/M3)            | 2000  | 45.8  | 47.4  | 48.9  | 52.0  | 53.3  | 54.4  | 55.9  | 56.2  | 55.9  | 52.4  | 43.9 |      |      |      |      |      |
| NFA 6924. RPM             | 2500  | 47.8  | 50.5  | 52.2  | 55.3  | 56.1  | 60.0  | 61.4  | 61.2  | 61.6  | 55.6  | 48.2 |      |      |      |      |      |
| (725. RA/SEC)             | 3150  | 40.6  | 53.9  | 55.1  | 60.8  | 64.1  | 65.9  | 67.6  | 68.6  | 66.5  | 60.0  | 49.1 |      |      |      |      |      |
| NFX 7123. RPM             | 4000  | 50.7  | 52.6  | 56.5  | 61.9  | 64.4  | 66.9  | 69.0  | 67.5  | 66.0  | 59.5  | 49.7 |      |      |      |      |      |
| (746. RAD/SEC)            | 5000  | 44.6  | 52.0  | 54.2  | 59.3  | 62.1  | 65.2  | 67.4  | 67.1  | 63.1  | 56.7  | 45.7 |      |      |      |      |      |
| NFD 8823. RPM             | 6300  | 45.7  | 49.4  | 52.1  | 56.4  | 59.7  | 63.3  | 64.6  | 64.7  | 63.3  | 54.0  | 43.4 |      |      |      |      |      |
| (924. RAD/SEC)            | 8000  | 43.9  | 48.3  | 51.1  | 55.7  | 58.9  | 62.2  | 63.4  | 63.1  | 62.1  | 53.0  | 41.1 |      |      |      |      |      |
| NO. OF BLADES 15          | 10000 | 41.0  | 44.7  | 48.4  | 54.3  | 56.6  | 60.6  | 62.1  | 61.1  | 59.7  | 50.2  | 36.2 |      |      |      |      |      |
| FAN TIP SPEED 605. FT/SEC | 12500 | 38.3  | 41.4  | 44.7  | 51.2  | 54.3  | 57.1  | 59.1  | 58.6  | 56.9  | 46.0  | 30.0 |      |      |      |      |      |
|                           | 16600 | 39.5  | 34.4  | 37.9  | 44.3  | 47.9  | 50.8  | 52.0  | 52.8  | 49.3  | 37.3  | 19.2 |      |      |      |      |      |
|                           | 20000 | 24.2  | 28.3  | 32.9  | 39.5  | 42.6  | 45.5  | 47.2  | 46.6  | 43.2  | 29.7  | 8.7  |      |      |      |      |      |
|                           | 25000 | 14.1  | 19.4  | 24.3  | 31.4  | 34.9  | 37.6  | 38.6  | 37.1  | 32.0  | 16.2  |      |      |      |      |      |      |
|                           | 31500 |       | 6.6   | 13.0  | 21.2  | 23.7  | 26.5  | 26.4  | 24.3  | 16.5  |       |      |      |      |      |      |      |
|                           | 40000 |       |       |       | 1.6   | 5.3   | 7.5   | 7.3   | 1.8   |       |       |      |      |      |      |      |      |
|                           | 50000 |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |
|                           | 63000 |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |
|                           | 80000 |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |
| OVERALL CALCULATION       |       | 51.7  | 64.7  | 66.0  | 69.1  | 71.3  | 73.6  | 75.2  | 74.6  | 73.4  | 66.5  | 63.5 |      |      |      |      |      |
| PRNG                      |       | 73.9  | 77.1  | 78.0  | 83.1  | 85.4  | 87.6  | 89.3  | 88.4  | 87.5  | 82.1  | 73.8 |      |      |      |      |      |

MODEL SJU7 PRESSURE LEVELS 150. DEG. F. 70 PERCENT R. L. NUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | 5%    | 6%    | 7%    | 8%    | 9%    | 10%   | 11%   | 12%   | 13%   | 14%   | 15%   | 16%   | 17% | 18% | 19% | 20% |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|
| RADIAL 17. FT.      | 100   | 63.0  | 73.4  | 72.4  | 77.4  | 73.4  | 74.2  | 74.4  | 75.7  | 79.0  | 83.0  | 87.0  |     |     |     |     |
| VEHICLE R=55        | 124   | 75.4  | 74.1  | 77.4  | 77.1  | 74.7  | 74.9  | 78.9  | 80.9  | 81.2  | 84.1  | 86.9  |     |     |     |     |
| CONFIG 75-IN        | 150   | 74.8  | 76.6  | 75.1  | 74.4  | 76.1  | 74.7  | 74.9  | 80.7  | 82.7  | 85.3  | 87.9  |     |     |     |     |
| LFC SCHEMECTADY     | 230   | 74.3  | 74.6  | 74.4  | 74.4  | 77.1  | 78.9  | 80.1  | 81.9  | 83.2  | 84.1  | 88.1  |     |     |     |     |
| DATE 1/17/75        | 250   | 73.3  | 78.1  | 77.9  | 80.0  | 81.4  | 82.1  | 83.1  | 84.1  | 85.2  | 87.1  | 88.3  |     |     |     |     |
| RUM 5874            | 314   | 74.3  | 72.1  | 79.4  | 80.4  | 87.1  | 86.9  | 81.4  | 82.4  | 82.7  | 85.9  | 87.4  |     |     |     |     |
| TAPE                | 414   | 74.3  | 74.1  | 76.7  | 74.2  | 78.4  | 79.2  | 80.4  | 81.4  | 83.0  | 84.6  | 86.1  |     |     |     |     |
| BAR 30-2 MG         | 500   | 75.1  | 77.2  | 75.7  | 77.5  | 78.2  | 79.2  | 80.4  | 81.9  | 82.7  | 84.6  | 85.1  |     |     |     |     |
| (31000. 4/N2)       | 630   | 77.7  | 77.9  | 74.4  | 80.5  | 80.9  | 81.5  | 83.4  | 83.7  | 84.0  | 85.1  | 84.0  |     |     |     |     |
| T-19 31. DEG F      | 670   | 77.4  | 87.2  | 74.2  | 77.7  | 80.2  | 81.2  | 82.0  | 83.9  | 84.3  | 85.1  | 84.4  |     |     |     |     |
| 1273. DEG K         | 1050  | 75.4  | 75.3  | 76.4  | 74.2  | 79.2  | 81.0  | 82.4  | 84.2  | 85.2  | 84.6  | 83.1  |     |     |     |     |
| T-17 22. DEG F      | 1250  | 74.7  | 82.7  | 75.2  | 77.9  | 79.5  | 80.5  | 82.4  | 83.7  | 84.3  | 84.2  | 82.4  |     |     |     |     |
| (200. DEG K)        | 1850  | 73.5  | 74.7  | 73.9  | 74.1  | 77.5  | 79.6  | 80.4  | 81.2  | 82.0  | 81.9  | 80.6  |     |     |     |     |
| HACT 0-54 CM/MS     | 2070  | 75.7  | 75.7  | 77.4  | 79.1  | 80.5  | 82.5  | 84.1  | 84.4  | 87.5  | 86.4  | 82.9  |     |     |     |     |
| (20055 CM/MS)       | 2500  | 74.4  | 74.3  | 79.4  | 83.1  | 84.4  | 84.3  | 87.1  | 89.9  | 91.0  | 89.7  | 82.4  |     |     |     |     |
| MFA 7676. RPM       | 3150  | 75.9  | 73.7  | 81.1  | 85.1  | 87.5  | 90.2  | 92.0  | 92.3  | 94.0  | 84.6  | 84.0  |     |     |     |     |
| ( 804. RAD/SEC)     | 4000  | 81.3  | 83.1  | 86.2  | 90.3  | 92.4  | 95.2  | 97.4  | 94.7  | 97.6  | 93.3  | 90.0  |     |     |     |     |
| MFR 7892. RPM       | 5000  | 74.2  | 79.1  | 82.1  | 84.5  | 84.4  | 82.3  | 94.6  | 94.1  | 93.8  | 89.5  | 84.9  |     |     |     |     |
| ( 820. RAD/SEC)     | 6300  | 74.2  | 80.5  | 82.5  | 87.3  | 87.2  | 82.0  | 94.7  | 95.3  | 95.2  | 89.4  | 84.4  |     |     |     |     |
| MFC 8923. RPM       | 8000  | 75.5  | 78.1  | 80.7  | 85.7  | 85.9  | 81.5  | 94.2  | 95.2  | 94.2  | 89.2  | 84.9  |     |     |     |     |
| ( 924. RAD/SEC)     | 10000 | 75.4  | 77.0  | 80.1  | 85.1  | 87.4  | 91.5  | 94.0  | 95.3  | 94.7  | 89.3  | 84.4  |     |     |     |     |
| NO. OF BLADES 15    | 12500 | 74.4  | 76.2  | 78.9  | 84.7  | 87.6  | 91.4  | 93.4  | 95.7  | 95.0  | 89.3  | 83.7  |     |     |     |     |
| FAN TIP SPEED 16000 | 16000 | 72.5  | 73.6  | 76.5  | 81.5  | 84.7  | 88.5  | 91.2  | 93.7  | 92.5  | 86.0  | 82.4  |     |     |     |     |
| 670. FT/SEC         | 20000 | 71.0  | 73.0  | 76.5  | 82.0  | 84.7  | 87.8  | 91.3  | 93.9  | 94.0  | 86.0  | 82.0  |     |     |     |     |
|                     | 25000 | 71.1  | 72.1  | 74.7  | 80.4  | 83.5  | 86.9  | 90.2  | 92.5  | 92.9  | 87.3  | 81.8  |     |     |     |     |
|                     | 31500 | 69.4  | 72.9  | 74.2  | 79.4  | 82.3  | 85.0  | 88.2  | 91.1  | 91.0  | 85.9  | 78.0  |     |     |     |     |
|                     | 40000 | 65.5  | 67.0  | 70.9  | 76.3  | 78.4  | 82.1  | 85.0  | 86.7  | 87.5  | 81.8  | 72.0  |     |     |     |     |
|                     | 50000 | 64.0  | 63.4  | 67.5  | 74.4  | 73.6  | 77.5  | 80.6  | 81.3  | 81.3  | 77.9  | 67.3  |     |     |     |     |
|                     | 63000 | 64.1  | 61.4  | 64.3  | 64.3  | 67.4  | 70.2  | 73.3  | 72.9  | 73.5  | 70.5  | 62.7  |     |     |     |     |
|                     | 80000 | 65.4  | 64.8  | 65.0  | 62.9  | 63.3  | 64.0  | 65.4  | 65.6  | 66.0  | 64.7  | 61.4  |     |     |     |     |
| OVERALL CALCULATION |       | 99.4  | 92.2  | 93.3  | 97.1  | 99.3  | 102.1 | 104.4 | 105.0 | 105.5 | 101.8 | 99.8  |     |     |     |     |
| OVERALL CALCULATION |       | 103.0 | 103.4 | 107.2 | 110.0 | 112.7 | 115.1 | 117.2 | 119.3 | 118.0 | 114.0 | 112.2 |     |     |     |     |

*Handwritten mark resembling a stylized 'A' or 'R'.*

|                           | 53    | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 154  | 0    | 0 | 0 | 0 | 0 | 0 |
|---------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|
| SURFACE 200. FT.          | 53    | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 154  | 0    | 0 | 0 | 0 | 0 | 0 |
| VEHICLE 60-06 N1          | 170   | 45.1 | 50.7 | 50.6 | 51.7 | 51.9 | 52.4 | 52.4 | 52.6 | 54.6 | 57.3 | 57.6 |   |   |   |   |   |
| COEFFIC 8-55              | 175   | 52.0 | 55.3 | 55.2 | 55.7 | 55.2 | 55.1 | 56.6 | 57.0 | 54.7 | 57.4 | 56.6 |   |   |   |   |   |
| LOC SCHEMECTARY           | 250   | 53.1 | 51.7 | 52.1 | 52.5 | 53.3 | 54.9 | 57.7 | 54.6 | 58.5 | 59.1 | 57.4 |   |   |   |   |   |
| DATE 1/17/75              | 250   | 54.2 | 54.1 | 57.5 | 54.3 | 57.5 | 46.1 | 60.4 | 66.7 | 60.4 | 60.0 | 57.5 |   |   |   |   |   |
| R.R. 5874                 | 315   | 54.1 | 46.3 | 58.9 | 57.1 | 53.2 | 49.8 | 54.7 | 58.0 | 57.0 | 54.0 | 56.3 |   |   |   |   |   |
| TAPE                      | 400   | 57.6 | 54.0 | 54.3 | 57.0 | 54.5 | 57.0 | 57.7 | 57.4 | 57.0 | 57.2 | 54.0 |   |   |   |   |   |
| BAR 30.2 MC               | 500   | 50.7 | 51.8 | 53.0 | 55.2 | 54.3 | 57.0 | 57.4 | 58.2 | 57.5 | 57.0 | 53.0 |   |   |   |   |   |
| TAMB 31. DEG F            | 430   | 53.1 | 54.4 | 55.6 | 57.6 | 59.7 | 59.1 | 60.5 | 59.8 | 58.6 | 57.4 | 57.8 |   |   |   |   |   |
| T-ET 22. DEG F            | 1250  | 49.7 | 54.8 | 53.0 | 55.1 | 56.3 | 57.7 | 59.1 | 59.4 | 58.4 | 59.7 | 49.6 |   |   |   |   |   |
| NACT 0.55 CM/MS           | 2000  | 49.0 | 51.4 | 53.9 | 56.9 | 57.8 | 49.4 | 68.4 | 61.7 | 61.1 | 57.4 | 49.1 |   |   |   |   |   |
| MFA 747A. RPM             | 3150  | 51.0 | 53.0 | 57.1 | 61.6 | 64.1 | 64.0 | 67.0 | 67.1 | 67.0 | 54.9 | 49.9 |   |   |   |   |   |
| MFK 7802. RPM             | 5030  | 51.4 | 53.5 | 57.4 | 62.3 | 65.3 | 66.1 | 69.7 | 66.1 | 64.9 | 54.5 | 48.2 |   |   |   |   |   |
| MFD 823. RPM              | 6340  | 50.4 | 53.7 | 57.1 | 62.4 | 65.4 | 67.0 | 69.1 | 64.5 | 64.3 | 57.1 | 49.9 |   |   |   |   |   |
| NO. OF BLADES 15          | 12300 | 41.5 | 44.4 | 48.4 | 54.9 | 58.1 | 61.6 | 62.0 | 63.1 | 59.4 | 44.5 | 38.8 |   |   |   |   |   |
| FAH TIP SPEED 670. FT/SEC | 20000 | 27.9 | 31.6 | 37.1 | 43.4 | 48.8 | 49.5 | 51.5 | 51.4 | 46.7 | 39.2 | 10.0 |   |   |   |   |   |
|                           | 25000 | 17.6 | 22.9 | 24.1 | 35.7 | 39.9 | 41.0 | 43.1 | 41.9 | 36.8 | 19.4 |      |   |   |   |   |   |
|                           | 31500 | 3.3  | 10.3 | 17.0 | 24.7 | 27.7 | 30.5 | 30.4 | 28.5 | 20.3 | 0.3  |      |   |   |   |   |   |
|                           | 40000 |      |      |      | 5.0  | 6.3  | 11.7 | 11.3 | 6.5  |      |      |      |   |   |   |   |   |
|                           | 50000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
|                           | 63000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
|                           | 83000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| OVERALL CAL. CULATED      |       | 64.7 | 67.7 | 68.0 | 72.5 | 74.5 | 76.7 | 78.2 | 78.8 | 76.1 | 71.1 | 66.0 |   |   |   |   |   |
|                           |       | 77.5 | 80.4 | 83.0 | 87.0 | 89.0 | 91.2 | 92.0 | 92.7 | 90.6 | 84.8 | 77.1 |   |   |   |   |   |



OC

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DFG, P, 70 PERCENT R L, MUN, SAV)  
 PRCC. DATE - MONTH 3 DAY 25 HR. 14.4  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0     | 0     | 0     | 0     | 0     | 0     |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| FREQ.              | (1.02) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.33) | (2.52) | (2.73) | (0)   | (0)   | (0)   | (0)   | (0)   | (0)   |
| SIDELINE 200. FT.  | 59     | 63     | 69     | 75     | 81     | 87     | 93     | 99     | 105    | 111    | 117    | 123   | 129   | 135   | 141   | 147   | 153   |
| VEHICLE (60.96 M)  | 100    | 105    | 110    | 115    | 120    | 125    | 130    | 135    | 140    | 145    | 150    | 155   | 160   | 165   | 170   | 175   | 180   |
| CONFIG R=55        | 125    | 130    | 135    | 140    | 145    | 150    | 155    | 160    | 165    | 170    | 175    | 180   | 185   | 190   | 195   | 200   | 205   |
| L/C SCHENECTADY    | 160    | 165    | 170    | 175    | 180    | 185    | 190    | 195    | 200    | 205    | 210    | 215   | 220   | 225   | 230   | 235   | 240   |
| DATE 1/17/75       | 250    | 255    | 260    | 265    | 270    | 275    | 280    | 285    | 290    | 295    | 300    | 305   | 310   | 315   | 320   | 325   | 330   |
| RUN 58/5           | 315    | 320    | 325    | 330    | 335    | 340    | 345    | 350    | 355    | 360    | 365    | 370   | 375   | 380   | 385   | 390   | 395   |
| TAPE               | 400    | 405    | 410    | 415    | 420    | 425    | 430    | 435    | 440    | 445    | 450    | 455   | 460   | 465   | 470   | 475   | 480   |
| BAR 30-2 HC        | 500    | 505    | 510    | 515    | 520    | 525    | 530    | 535    | 540    | 545    | 550    | 555   | 560   | 565   | 570   | 575   | 580   |
| (01890. N/M2)      | 630    | 635    | 640    | 645    | 650    | 655    | 660    | 665    | 670    | 675    | 680    | 685   | 690   | 695   | 700   | 705   | 710   |
| TAMB 31. DEG F     | 800    | 805    | 810    | 815    | 820    | 825    | 830    | 835    | 840    | 845    | 850    | 855   | 860   | 865   | 870   | 875   | 880   |
| (23. DEG K)        | 1000   | 1005   | 1010   | 1015   | 1020   | 1025   | 1030   | 1035   | 1040   | 1045   | 1050   | 1055  | 1060  | 1065  | 1070  | 1075  | 1080  |
| TACT 22. DEG F     | 1250   | 1255   | 1260   | 1265   | 1270   | 1275   | 1280   | 1285   | 1290   | 1295   | 1300   | 1305  | 1310  | 1315  | 1320  | 1325  | 1330  |
| (208. DEG K)       | 1600   | 1605   | 1610   | 1615   | 1620   | 1625   | 1630   | 1635   | 1640   | 1645   | 1650   | 1655  | 1660  | 1665  | 1670  | 1675  | 1680  |
| MACT 0-55 GN/M3    | 2000   | 2005   | 2010   | 2015   | 2020   | 2025   | 2030   | 2035   | 2040   | 2045   | 2050   | 2055  | 2060  | 2065  | 2070  | 2075  | 2080  |
| (00059 KG/M3)      | 2500   | 2505   | 2510   | 2515   | 2520   | 2525   | 2530   | 2535   | 2540   | 2545   | 2550   | 2555  | 2560  | 2565  | 2570  | 2575  | 2580  |
| NFA 7675. RPM      | 3150   | 3155   | 3160   | 3165   | 3170   | 3175   | 3180   | 3185   | 3190   | 3195   | 3200   | 3205  | 3210  | 3215  | 3220  | 3225  | 3230  |
| (884. RAD/SEC)     | 4000   | 4005   | 4010   | 4015   | 4020   | 4025   | 4030   | 4035   | 4040   | 4045   | 4050   | 4055  | 4060  | 4065  | 4070  | 4075  | 4080  |
| NFK 7831. RPM      | 5000   | 5005   | 5010   | 5015   | 5020   | 5025   | 5030   | 5035   | 5040   | 5045   | 5050   | 5055  | 5060  | 5065  | 5070  | 5075  | 5080  |
| (826. RAD/SEC)     | 6300   | 6305   | 6310   | 6315   | 6320   | 6325   | 6330   | 6335   | 6340   | 6345   | 6350   | 6355  | 6360  | 6365  | 6370  | 6375  | 6380  |
| NFD 8823. RPM      | 8000   | 8005   | 8010   | 8015   | 8020   | 8025   | 8030   | 8035   | 8040   | 8045   | 8050   | 8055  | 8060  | 8065  | 8070  | 8075  | 8080  |
| (924. RAD/SEC)     | 10000  | 10005  | 10010  | 10015  | 10020  | 10025  | 10030  | 10035  | 10040  | 10045  | 10050  | 10055 | 10060 | 10065 | 10070 | 10075 | 10080 |
| NO. OF BLADES 15   | 12500  | 12505  | 12510  | 12515  | 12520  | 12525  | 12530  | 12535  | 12540  | 12545  | 12550  | 12555 | 12560 | 12565 | 12570 | 12575 | 12580 |
| FAN TIP SPEED      | 16000  | 16005  | 16010  | 16015  | 16020  | 16025  | 16030  | 16035  | 16040  | 16045  | 16050  | 16055 | 16060 | 16065 | 16070 | 16075 | 16080 |
| 676. FT/SEC        | 20000  | 20005  | 20010  | 20015  | 20020  | 20025  | 20030  | 20035  | 20040  | 20045  | 20050  | 20055 | 20060 | 20065 | 20070 | 20075 | 20080 |
|                    | 25000  | 25005  | 25010  | 25015  | 25020  | 25025  | 25030  | 25035  | 25040  | 25045  | 25050  | 25055 | 25060 | 25065 | 25070 | 25075 | 25080 |
|                    | 31500  | 31505  | 31510  | 31515  | 31520  | 31525  | 31530  | 31535  | 31540  | 31545  | 31550  | 31555 | 31560 | 31565 | 31570 | 31575 | 31580 |
|                    | 40000  | 40005  | 40010  | 40015  | 40020  | 40025  | 40030  | 40035  | 40040  | 40045  | 40050  | 40055 | 40060 | 40065 | 40070 | 40075 | 40080 |
|                    | 50000  | 50005  | 50010  | 50015  | 50020  | 50025  | 50030  | 50035  | 50040  | 50045  | 50050  | 50055 | 50060 | 50065 | 50070 | 50075 | 50080 |
|                    | 63000  | 63005  | 63010  | 63015  | 63020  | 63025  | 63030  | 63035  | 63040  | 63045  | 63050  | 63055 | 63060 | 63065 | 63070 | 63075 | 63080 |
|                    | 80000  | 80005  | 80010  | 80015  | 80020  | 80025  | 80030  | 80035  | 80040  | 80045  | 80050  | 80055 | 80060 | 80065 | 80070 | 80075 | 80080 |
| OVERALL CALCULATED | 64.6   | 66.6   | 68.6   | 72.4   | 74.4   | 76.6   | 78.3   | 78.8   | 76.4   | 71.8   | 66.6   |       |       |       |       |       |       |
| PN30               | 77.5   | 79.9   | 82.9   | 86.9   | 88.9   | 91.1   | 92.7   | 92.7   | 90.9   | 84.5   | 78.8   |       |       |       |       |       |       |

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ORIGINAL PAGE #  
OF FOUR QUALITY

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PERMISSIBLE LEVELS (50, 65, 70, 75, 80) dB(A) ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    |                | 50      | 60      | 70      | 80      | 90      | 100     | 110     | 120     | 130     | 140     | 150      | 0°    | 0° | 0° | 0° | 0° | 0° | PAI   |
|--------------------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|----|----|----|----|----|-------|
|                    | FREQ.          | (10.22) | (12.59) | (15.85) | (20.15) | (25.51) | (32.20) | (40.74) | (51.50) | (65.00) | (82.03) | (103.82) | 10    | 10 | 10 | 10 | 10 | 10 | 10    |
| RADIAL             | 17. FT.        | 63      |         |         |         |         |         |         |         |         |         |          |       |    |    |    |    |    |       |
|                    | 5. MI          | 63      |         |         |         |         |         |         |         |         |         |          |       |    |    |    |    |    |       |
| VEHICLE            | R-43           | 120     | 69.7    | 72.7    | 75.7    | 78.7    | 79.7    | 74.7    | 73.0    | 69.9    | 72.2    | 74.3     | 79.4  |    |    |    |    |    | 109.3 |
| CONFIG             | 75-1W          | 120     | 66.7    | 69.7    | 71.7    | 70.2    | 70.6    | 69.4    | 67.3    | 71.5    | 72.2    | 71.9     | 74.9  |    |    |    |    |    | 104.7 |
| LOC                | SCHENECTADY    | 150     | 65.5    | 65.4    | 65.7    | 66.7    | 66.6    | 67.1    | 69.3    | 70.5    | 72.0    | 73.5     | 76.2  |    |    |    |    |    | 103.0 |
| DATE               | 1/17/75        | 200     | 64.2    | 64.7    | 65.2    | 64.7    | 67.5    | 49.1    | 69.9    | 71.5    | 72.7    | 74.9     | 77.1  |    |    |    |    |    | 104.7 |
| RUN                | 5/18           | 250     | 67.5    | 68.4    | 68.9    | 70.0    | 71.7    | 70.9    | 71.4    | 72.5    | 72.7    | 74.0     | 75.1  |    |    |    |    |    | 105.5 |
| TAPE               |                | 315     | 68.7    | 70.2    | 70.4    | 71.5    | 71.5    | 72.2    | 71.8    | 72.5    | 72.7    | 73.9     | 74.9  |    |    |    |    |    | 106.0 |
| BAR                | 33.2 MG        | 400     | 66.5    | 67.2    | 67.7    | 67.7    | 69.1    | 69.9    | 70.3    | 71.3    | 72.0    | 73.0     | 73.9  |    |    |    |    |    | 104.3 |
|                    | (31870.4 N/M2) | 500     | 66.3    | 67.0    | 67.3    | 67.5    | 67.1    | 71.5    | 71.4    | 72.5    | 73.5    | 74.0     | 74.2  |    |    |    |    |    | 105.1 |
| TANG               | 31. DEG F      | 600     | 67.8    | 70.2    | 71.4    | 72.5    | 73.1    | 74.5    | 75.0    | 76.3    | 78.2    | 78.3     | 78.7  |    |    |    |    |    | 106.3 |
|                    | (273. DEG F)   | 1000    | 69.1    | 70.0    | 69.7    | 71.5    | 72.1    | 73.7    | 74.5    | 76.0    | 77.0    | 78.0     | 78.4  |    |    |    |    |    | 107.0 |
| T-ET               | 22. DEG F      | 1250    | 64.1    | 67.0    | 67.4    | 70.3    | 71.1    | 73.2    | 75.0    | 77.3    | 78.7    | 78.3     | 73.4  |    |    |    |    |    | 108.4 |
|                    | (258. DEG F)   | 1500    | 67.1    | 69.3    | 70.2    | 72.5    | 74.5    | 74.9    | 78.5    | 80.9    | 82.2    | 82.9     | 78.2  |    |    |    |    |    | 112.0 |
| MACT               | 0.55 CM/M3     | 2000    | 64.7    | 64.5    | 65.7    | 67.9    | 69.7    | 71.8    | 73.0    | 74.0    | 75.3    | 75.1     | 71.2  |    |    |    |    |    | 105.0 |
|                    | (0.0055 KG/M3) | 2500    | 62.9    | 63.8    | 64.7    | 66.9    | 69.9    | 71.3    | 73.0    | 76.0    | 77.5    | 78.1     | 73.7  |    |    |    |    |    | 107.2 |
| MFA                | 5380. RPM      | 3100    | 71.6    | 72.3    | 74.5    | 76.9    | 79.9    | 82.8    | 84.7    | 86.7    | 88.7    | 87.1     | 81.2  |    |    |    |    |    | 117.6 |
|                    | (543. rad/sec) | 4000    | 67.1    | 71.3    | 72.3    | 74.4    | 77.4    | 82.3    | 84.4    | 85.7    | 86.7    | 85.3     | 79.9  |    |    |    |    |    | 118.4 |
| MFK                | 5531. RPM      | 5000    | 70.7    | 72.8    | 74.2    | 79.4    | 81.9    | 85.4    | 86.6    | 88.8    | 89.8    | 87.5     | 81.5  |    |    |    |    |    | 119.0 |
|                    | (579. rad/sec) | 6300    | 67.9    | 68.9    | 71.2    | 74.8    | 78.8    | 81.9    | 85.0    | 85.4    | 85.0    | 83.4     | 77.4  |    |    |    |    |    | 115.0 |
| MFD                | 6821. RPM      | 8000    | 65.4    | 67.6    | 70.0    | 73.9    | 76.6    | 80.7    | 83.2    | 84.4    | 85.4    | 82.4     | 76.9  |    |    |    |    |    | 115.0 |
|                    | (824. rad/sec) | 10000   | 64.3    | 67.4    | 69.0    | 73.5    | 75.7    | 80.5    | 82.6    | 84.3    | 85.5    | 81.1     | 76.4  |    |    |    |    |    | 115.0 |
| NO. OF BLADES      | 15             | 12500   | 64.3    | 65.8    | 67.6    | 72.6    | 74.3    | 81.0    | 82.2    | 84.7    | 85.9    | 81.5     | 76.0  |    |    |    |    |    | 115.1 |
| FAN TIP SPEED      | 16000          | 20000   | 64.5    | 65.3    | 67.3    | 71.5    | 75.5    | 78.4    | 81.1    | 83.8    | 85.4    | 81.2     | 75.0  |    |    |    |    |    | 114.4 |
|                    | 470. FT/SEC    | 25000   | 67.2    | 63.2    | 64.5    | 69.1    | 73.4    | 76.9    | 79.4    | 82.3    | 83.4    | 79.7     | 73.9  |    |    |    |    |    | 113.0 |
|                    |                | 31500   | 61.3    | 61.6    | 63.1    | 68.5    | 72.9    | 75.8    | 78.9    | 81.3    | 83.0    | 79.2     | 72.6  |    |    |    |    |    | 112.0 |
|                    |                | 40000   | 57.3    | 60.4    | 61.4    | 67.6    | 71.7    | 74.4    | 76.6    | 79.1    | 80.4    | 77.0     | 70.1  |    |    |    |    |    | 111.2 |
|                    |                | 50000   | 47.8    | 54.7    | 60.2    | 66.9    | 73.2    | 73.6    | 75.6    | 77.6    | 79.3    | 75.6     | 68.1  |    |    |    |    |    | 110.9 |
|                    |                | 60000   | 55.4    | 56.5    | 57.7    | 63.1    | 66.3    | 69.6    | 71.7    | 73.6    | 75.2    | 71.9     | 62.1  |    |    |    |    |    | 108.3 |
|                    |                | 70000   | 55.9    | 54.7    | 57.2    | 58.9    | 61.5    | 64.5    | 67.2    | 67.9    | 69.5    | 67.3     | 57.4  |    |    |    |    |    | 105.0 |
|                    |                | 80000   | 56.0    | 53.4    | 56.3    | 55.7    | 56.8    | 58.1    | 60.7    | 60.2    | 61.7    | 60.2     | 54.2  |    |    |    |    |    | 101.4 |
|                    |                | 90000   | 59.1    | 57.9    | 56.0    | 55.2    | 55.2    | 54.7    | 55.6    | 55.2    | 55.7    | 54.7     | 52.9  |    |    |    |    |    | 102.6 |
| OVERALL MEASURED   |                |         |         |         |         |         |         |         |         |         |         |          |       |    |    |    |    |    |       |
| OVERALL CALCULATED |                |         | 81.3    | 82.6    | 84.2    | 87.1    | 89.3    | 92.3    | 94.1    | 95.9    | 97.0    | 95.1     | 90.3  |    |    |    |    |    | 126.9 |
| PAI                |                |         | 93.9    | 95.4    | 96.9    | 100.6   | 103.0   | 105.9   | 107.3   | 108.2   | 109.0   | 108.6    | 103.7 |    |    |    |    |    |       |

|                    |       | 51     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 131    | 145    | 150    | 0.  | 0.  | 0.  | 0.  | 0.  | 0.   |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|------|
|                    |       | (0.92) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0. | (0. | (0. | (0. | (0. | (0.) |
| 50                 |       |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |
| 50                 |       |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |
| 50                 |       |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |
| SITELINE 200. FT.  |       |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |
| 60.36 M            | 100   | 46.1   | 52.0   | 53.4   | 56.3   | 56.7   | 55.2   | 50.8   | 45.7   | 47.8   | 47.7   | 46.4   |     |     |     |     |     |      |
| VEHICLE P-55       | 125   | 47.0   | 45.2   | 43.5   | 42.5   | 42.7   | 46.6   | 45.8   | 48.4   | 47.7   | 45.1   | 44.7   |     |     |     |     |     |      |
| CONFIG 75-1K       | 160   | 41.6   | 42.5   | 43.4   | 44.9   | 44.5   | 45.3   | 46.9   | 47.3   | 47.3   | 46.7   | 45.7   |     |     |     |     |     |      |
| LOC SCHENECTADY    | 270   | 40.3   | 42.0   | 42.8   | 44.3   | 45.7   | 47.2   | 47.3   | 48.2   | 48.0   | 47.8   | 46.5   |     |     |     |     |     |      |
| DATE 1/17/75       | 250   | 43.4   | 45.4   | 46.5   | 47.2   | 47.2   | 48.0   | 49.2   | 49.1   | 47.8   | 46.9   | 46.3   |     |     |     |     |     |      |
| RUN 55/6           | 315   | 44.6   | 47.0   | 47.9   | 49.4   | 49.5   | 50.0   | 49.2   | 49.8   | 47.7   | 45.5   | 43.8   |     |     |     |     |     |      |
| TAPE               | 400   | 42.2   | 43.9   | 45.1   | 46.8   | 47.0   | 47.7   | 47.6   | 47.6   | 46.9   | 45.6   | 42.6   |     |     |     |     |     |      |
| BAR 30.2 MG        | 500   | 41.9   | 43.6   | 45.2   | 46.8   | 46.9   | 48.1   | 49.0   | 49.0   | 48.3   | 46.5   | 42.6   |     |     |     |     |     |      |
| (01000. N/M2)      | 430   | 45.3   | 46.7   | 48.7   | 50.2   | 50.9   | 52.1   | 52.9   | 52.4   | 50.9   | 48.6   | 42.9   |     |     |     |     |     |      |
| TANG 31. DEC F     | 400   | 44.4   | 46.4   | 47.0   | 49.1   | 49.7   | 51.2   | 51.5   | 52.0   | 51.5   | 48.8   | 42.3   |     |     |     |     |     |      |
| (273. DEC K)       | 1000  | 41.3   | 43.2   | 44.4   | 47.7   | 48.6   | 50.6   | 51.9   | 53.1   | 53.0   | 50.1   | 41.0   |     |     |     |     |     |      |
| T-CT 22. DEC F     | 1250  | 44.1   | 44.1   | 47.0   | 49.9   | 52.0   | 54.0   | 55.2   | 56.5   | 58.4   | 54.4   | 43.4   |     |     |     |     |     |      |
| (268. DEC K)       | 1800  | 47.7   | 48.4   | 42.3   | 45.0   | 46.9   | 48.6   | 49.5   | 50.3   | 49.1   | 46.4   | 37.9   |     |     |     |     |     |      |
| HACT 0.55 GM/M3    | 2000  | 47.4   | 49.3   | 41.1   | 43.8   | 45.0   | 48.1   | 49.3   | 51.3   | 51.1   | 49.0   | 39.9   |     |     |     |     |     |      |
| (1.0055 KG/M3)     | 2500  | 44.9   | 47.6   | 50.4   | 53.7   | 56.8   | 60.4   | 60.1   | 61.6   | 62.1   | 57.7   | 47.0   |     |     |     |     |     |      |
| NFA 5369. RPM      | 3150  | 43.1   | 46.4   | 48.3   | 52.9   | 56.0   | 59.4   | 60.2   | 60.4   | 59.7   | 55.5   | 43.9   |     |     |     |     |     |      |
| (553. RAD/SEC)     | 4000  | 44.2   | 47.6   | 49.8   | 55.4   | 58.0   | 61.4   | 61.9   | 63.0   | 61.3   | 56.9   | 45.8   |     |     |     |     |     |      |
| NFK 5531. RPM      | 5000  | 41.0   | 47.3   | 46.4   | 50.5   | 54.7   | 57.6   | 60.1   | 59.4   | 57.1   | 52.4   | 40.8   |     |     |     |     |     |      |
| (579. RAD/SEC)     | 6300  | 38.6   | 41.2   | 44.6   | 48.9   | 51.8   | 55.8   | 57.5   | 57.6   | 56.6   | 50.5   | 38.5   |     |     |     |     |     |      |
| NPD 8823. RPM      | 8000  | 36.0   | 39.8   | 42.4   | 47.3   | 50.8   | 54.5   | 58.4   | 56.1   | 55.0   | 48.9   | 35.1   |     |     |     |     |     |      |
| (924. RAD/SEC)     | 10000 | 33.2   | 36.3   | 39.4   | 45.1   | 49.5   | 53.4   | 53.8   | 54.7   | 53.4   | 44.9   | 30.8   |     |     |     |     |     |      |
| NO. OF BLADES 15   | 12500 | 30.6   | 33.4   | 36.4   | 41.7   | 46.0   | 48.6   | 50.3   | 51.2   | 49.8   | 40.4   | 24.1   |     |     |     |     |     |      |
| FAK TIP SPEED      | 16000 | 23.7   | 27.2   | 30.2   | 35.5   | 40.3   | 43.9   | 44.7   | 45.4   | 42.8   | 32.5   | 13.5   |     |     |     |     |     |      |
| 470. FT/SEC        | 20000 | 16.4   | 20.1   | 23.9   | 30.6   | 35.0   | 37.4   | 39.1   | 38.7   | 35.7   | 23.8   |        |     |     |     |     |     |      |
|                    | 25000 | 6.0    | 11.2   | 14.9   | 22.5   | 27.0   | 29.1   | 29.5   | 28.4   | 23.5   | 8.1    |        |     |     |     |     |     |      |
|                    | 31500 |        |        | 3.1    | 11.7   | 15.6   | 16.2   | 17.8   | 15.1   | 8.5    |        |        |     |     |     |     |     |      |
|                    | 40000 |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |      |
| OVERALL CALCULATED |       | 55.9   | 58.3   | 60.7   | 63.5   | 65.6   | 67.5   | 68.8   | 69.4   | 68.5   | 64.6   | 56.6   |     |     |     |     |     |      |
| PRDB               |       | 67.4   | 70.2   | 72.5   | 76.6   | 79.2   | 82.0   | 82.6   | 83.6   | 82.3   | 78.3   | 68.4   |     |     |     |     |     |      |



|                    | FREQ. | ANGLE |      |      |      |      |      |       |       |       |       |      |    |    |    |    |       |
|--------------------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|------|----|----|----|----|-------|
|                    |       | 01    | 02   | 03   | 04   | 05   | 06   | 07    | 08    | 09    | 10    | 11   | 12 | 13 | 14 | 15 | 16    |
| 50                 |       |       |      |      |      |      |      |       |       |       |       |      |    |    |    |    |       |
| 63                 |       |       |      |      |      |      |      |       |       |       |       |      |    |    |    |    |       |
| RADIAL 17, FT.     | 80    | 68.1  | 68.9 | 71.5 | 74.0 | 74.5 | 74.5 | 71.2  | 67.5  | 66.7  | 70.6  | 73.9 |    |    |    |    | 106.0 |
| ( 9, M)            | 100   | 73.4  | 74.2 | 76.5 | 79.0 | 79.5 | 79.5 | 76.0  | 70.8  | 68.8  | 72.9  | 75.7 |    |    |    |    | 110.6 |
| VFNICLE R=55       | 125   | 67.0  | 69.0 | 71.3 | 68.6 | 71.8 | 71.8 | 67.1  | 70.8  | 71.6  | 71.9  | 74.3 |    |    |    |    | 104.8 |
| CONFIG 75-2        | 160   | 64.7  | 65.5 | 65.3 | 65.3 | 65.8 | 71.8 | 68.0  | 68.8  | 70.5  | 72.4  | 74.5 |    |    |    |    | 103.3 |
| LOC SCHENECTADY    | 200   | 64.5  | 66.3 | 65.6 | 65.6 | 67.1 | 73.1 | 69.8  | 70.4  | 72.1  | 74.4  | 75.5 |    |    |    |    | 104.7 |
| DATE 01-16-75      | 250   | 66.5  | 67.0 | 68.6 | 68.8 | 68.8 | 72.8 | 70.8  | 71.6  | 72.9  | 73.2  | 75.3 |    |    |    |    | 105.2 |
| MUN 71-2           | 315   | 66.7  | 68.1 | 68.6 | 68.9 | 69.1 | 73.1 | 70.1  | 70.4  | 70.9  | 72.2  | 73.0 |    |    |    |    | 104.5 |
| TAPE 25            | 400   | 65.9  | 66.5 | 66.5 | 67.5 | 68.0 | 72.5 | 70.0  | 70.5  | 71.3  | 72.6  | 73.2 |    |    |    |    | 104.1 |
| BAR 30.0 HG        | 500   | 64.6  | 65.4 | 66.4 | 67.2 | 68.2 | 70.7 | 70.9  | 71.4  | 72.7  | 73.3  | 72.8 |    |    |    |    | 104.2 |
| (01407, N/M2)      | 630   | 67.7  | 66.3 | 67.8 | 68.8 | 70.6 | 71.1 | 73.5  | 74.4  | 74.6  | 74.7  | 73.8 |    |    |    |    | 106.0 |
| TAMR 38, DEG F     | 800   | 60.0  | 65.6 | 67.6 | 67.9 | 69.1 | 69.4 | 71.8  | 72.7  | 73.4  | 74.2  | 71.8 |    |    |    |    | 104.7 |
| (278, DEG K)       | 1000  | 64.2  | 63.5 | 68.8 | 67.1 | 68.3 | 68.1 | 72.0  | 73.1  | 74.4  | 75.2  | 78.5 |    |    |    |    | 105.8 |
| TWEY 34, DEG F     | 1250  | 62.8  | 64.8 | 70.4 | 68.2 | 67.9 | 67.9 | 73.3  | 78.4  | 76.4  | 76.3  | 73.0 |    |    |    |    | 107.1 |
| (274, DEG K)       | 1600  | 61.2  | 62.5 | 64.6 | 64.5 | 65.7 | 66.0 | 69.2  | 71.1  | 70.8  | 72.7  | 69.6 |    |    |    |    | 102.5 |
| NACY 4.03 GM/M3    | 2000  | 60.8  | 61.6 | 68.6 | 64.2 | 65.4 | 63.8 | 67.0  | 67.4  | 68.7  | 69.8  | 67.2 |    |    |    |    | 100.7 |
| (.00403 KG/M3)     | 2500  | 61.0  | 62.6 | 64.3 | 65.6 | 67.3 | 64.5 | 69.0  | 68.6  | 69.9  | 71.0  | 66.7 |    |    |    |    | 101.4 |
| NFA 5447, RPM      | 3150  | 60.3  | 61.4 | 63.1 | 64.4 | 66.6 | 63.8 | 69.0  | 68.9  | 71.0  | 71.4  | 66.5 |    |    |    |    | 101.5 |
| ( 570, RAD/SEC)    | 4000  | 59.8  | 61.9 | 62.8 | 64.7 | 67.1 | 63.8 | 69.5  | 72.7  | 75.5  | 76.4  | 69.2 |    |    |    |    | 104.6 |
| NFK 5561, RPM      | 5000  | 59.9  | 60.7 | 62.6 | 64.2 | 66.6 | 63.5 | 72.7  | 74.5  | 75.0  | 79.4  | 68.7 |    |    |    |    | 105.8 |
| ( 582, RAD/SEC)    | 6300  | 61.8  | 62.7 | 64.7 | 65.9 | 67.9 | 65.5 | 74.4  | 77.9  | 79.9  | 78.3  | 71.1 |    |    |    |    | 108.3 |
| NFD 8824, RPM      | 8000  | 63.2  | 64.4 | 66.6 | 69.1 | 71.5 | 69.8 | 77.7  | 80.3  | 81.8  | 80.7  | 73.4 |    |    |    |    | 110.8 |
| ( 924, RAD/SEC)    | 10000 | 70.4  | 72.2 | 76.3 | 80.3 | 84.3 | 79.4 | 87.6  | 89.0  | 90.2  | 87.6  | 83.8 |    |    |    |    | 119.9 |
| NO. OF BLADES 15   | 12500 | 72.8  | 74.9 | 80.4 | 86.0 | 89.7 | 83.5 | 90.5  | 90.2  | 90.4  | 86.9  | 81.6 |    |    |    |    | 122.1 |
| FAN TIP SPEED      | 16000 | 65.6  | 67.9 | 71.4 | 75.3 | 79.3 | 74.8 | 84.3  | 86.5  | 86.7  | 82.8  | 74.8 |    |    |    |    | 116.7 |
| 476, FT/SEC        | 20000 | 63.9  | 65.7 | 68.3 | 71.7 | 75.8 | 71.9 | 82.8  | 84.4  | 87.3  | 82.6  | 73.7 |    |    |    |    | 116.2 |
|                    | 25000 | 68.5  | 63.0 | 64.1 | 67.8 | 72.1 | 69.0 | 78.9  | 81.5  | 83.8  | 80.5  | 71.3 |    |    |    |    | 113.6 |
|                    | 31500 | 59.2  | 61.5 | 62.8 | 67.2 | 70.8 | 67.8 | 77.3  | 80.3  | 81.5  | 78.2  | 69.1 |    |    |    |    | 112.8 |
|                    | 40000 | 59.1  | 61.4 | 60.9 | 64.5 | 67.8 | 65.6 | 74.9  | 77.3  | 78.4  | 76.5  | 65.8 |    |    |    |    | 111.7 |
|                    | 50000 | 58.3  | 57.8 | 56.3 | 57.5 | 60.8 | 58.8 | 67.9  | 69.1  | 70.8  | 69.5  | 57.8 |    |    |    |    | 105.8 |
|                    | 63000 | 52.3  | 53.0 | 51.2 | 50.6 | 52.7 | 51.7 | 58.4  | 59.8  | 60.8  | 58.2  | 51.1 |    |    |    |    | 98.8  |
|                    | 80000 | 57.2  | 57.5 | 55.2 | 54.1 | 53.9 | 55.4 | 55.0  | 54.5  | 55.8  | 54.8  | 53.6 |    |    |    |    | 102.8 |
| OVERALL MEASURED   |       |       |      |      |      |      |      |       |       |       |       |      |    |    |    |    |       |
| OVERALL CALCULATED |       | 89.8  | 82.8 | 85.3 | 88.9 | 92.1 | 88.3 | 94.3  | 99.2  | 96.3  | 95.6  | 89.1 |    |    |    |    | 120.9 |
| PNDB               |       | 82.8  | 90.8 | 93.1 | 93.9 | 97.5 | 95.8 | 100.6 | 101.9 | 103.1 | 102.3 | 98.4 |    |    |    |    |       |

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 PHOC. DATE - MONTH 4 DAY 29 HR: 20.1

|                    | 31   | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 154    | 0.   | 0.  | 0.  | 0.  | 0.  | 0.   |
|--------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|------|
|                    | (0.92)   | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | (0. | (0. | (0. | (0. | (0.) |
|                    | ANGLES FROM INLET IN DEGREES (AND RADIANS)   |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
|                    | FREQ. (0.92)(1.08)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(0.)(0.)(0.)(0.)(0.)(0.)(0.) |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| SIDELINE 200. FT.  | 50   |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| ( 80.98 M)         | 63   |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| VEHICLE R-55       | 180  | 44.5   | 46.3   | 49.4   | 52.3   | 53.0   | 52.8   | 49.1   | 44.5   | 42.4   | 41.1   | 44.0 |     |     |     |     |      |
| CONFIG 75-2        | 125  | 49.7   | 51.5   | 54.4   | 57.3   | 57.9   | 57.8   | 53.8   | 47.7   | 44.4   | 40.3   | 45.7 |     |     |     |     |      |
| LOC SCHENECTADY    | 160  | 43.2   | 46.2   | 49.1   | 46.8   | 50.2   | 50.0   | 44.8   | 47.7   | 47.1   | 45.2   | 44.0 |     |     |     |     |      |
| DATE 01-16-75      | 250  | 40.8   | 42.0   | 43.0   | 43.4   | 44.0   | 49.4   | 45.6   | 45.5   | 45.9   | 43.5   | 44.0 |     |     |     |     |      |
| RUN 71-2           | 315  | 40.5   | 43.3   | 43.3   | 43.7   | 45.3   | 51.1   | 47.4   | 47.0   | 47.4   | 47.5   | 44.9 |     |     |     |     |      |
| TAPP 25            | 400  | 42.4   | 44.3   | 46.2   | 46.8   | 47.0   | 50.8   | 48.3   | 48.2   | 48.8   | 46.1   | 44.4 |     |     |     |     |      |
| BAR 38.0 HC        | 500  | 42.6   | 44.9   | 46.1   | 46.8   | 47.1   | 51.0   | 47.5   | 48.8   | 45.9   | 44.9   | 41.9 |     |     |     |     |      |
| (0140) M/M2        | 630  | 41.6   | 43.2   | 43.9   | 45.3   | 46.0   | 50.1   | 47.3   | 48.9   | 46.2   | 45.2   | 41.9 |     |     |     |     |      |
| TAMB 30 DFG F      | 800  | 40.4   | 42.0   | 43.7   | 44.9   | 46.0   | 48.3   | 46.1   | 47.7   | 47.5   | 45.7   | 41.3 |     |     |     |     |      |
| (276) DFG K        | 1000   | 43.2   | 42.8   | 45.0   | 46.5   | 48.3   | 48.7   | 48.6   | 50.5   | 49.2   | 48.9   | 41.2 |     |     |     |     |      |
| TNET 34 DFG F      | 1250   | 41.3   | 42.0   | 44.7   | 45.4   | 46.8   | 46.8   | 48.8   | 48.7   | 47.9   | 48.3   | 38.9 |     |     |     |     |      |
| (274) DFG K        | 1500   | 39.4   | 39.8   | 45.8   | 44.5   | 45.8   | 45.4   | 48.8   | 49.0   | 46.7   | 47.0   | 38.0 |     |     |     |     |      |
| NACT 4.03 G4/M3    | 2000   | 37.8   | 40.9   | 47.2   | 45.4   | 45.3   | 45.1   | 50.0   | 52.1   | 50.6   | 49.9   | 40.2 |     |     |     |     |      |
| (.00403) KC/M3     | 2500   | 36.8   | 38.4   | 40.6   | 41.6   | 43.0   | 43.0   | 45.7   | 46.6   | 44.7   | 43.9   | 36.4 |     |     |     |     |      |
| MFA 5447 RPM       | 3150   | 35.3   | 37.5   | 45.0   | 41.1   | 42.4   | 40.7   | 43.3   | 42.7   | 42.3   | 40.8   | 33.5 |     |     |     |     |      |
| ( 578) RAD/SEC     | 4000   | 35.6   | 38.0   | 40.6   | 42.4   | 42.2   | 41.2   | 45.1   | 45.7   | 43.3   | 41.7   | 32.5 |     |     |     |     |      |
| MFX 5561 RPM       | 5000   | 34.3   | 36.5   | 39.1   | 40.9   | 43.2   | 40.2   | 44.8   | 45.7   | 44.8   | 41.5   | 31.3 |     |     |     |     |      |
| ( 982) RAD/SEC     | 6300   | 33.3   | 36.6   | 38.4   | 40.7   | 43.3   | 39.7   | 44.8   | 47.0   | 47.9   | 45.8   | 33.2 |     |     |     |     |      |
| MFD 8825 RPM       | 8000   | 33.0   | 35.1   | 37.9   | 40.0   | 42.6   | 39.2   | 47.8   | 48.4   | 47.1   | 44.4   | 32.1 |     |     |     |     |      |
| ( 924) RAD/SEC     | 10000  | 34.0   | 36.3   | 39.2   | 41.0   | 43.1   | 40.6   | 48.8   | 51.8   | 51.0   | 48.0   | 32.6 |     |     |     |     |      |
| NO. OF BLADES 15   | 12500  | 34.1   | 36.8   | 40.2   | 43.1   | 45.7   | 42.9   | 50.9   | 52.2   | 51.4   | 48.5   | 32.1 |     |     |     |     |      |
| FAN TIP SPEED      | 15000  | 39.3   | 42.9   | 48.4   | 52.8   | 56.9   | 51.0   | 59.2   | 59.1   | 57.7   | 55.8   | 37.8 |     |     |     |     |      |
| 476 FT/SEC         | 20000  | 38.9   | 43.8   | 49.8   | 56.2   | 60.2   | 53.7   | 59.7   | 57.6   | 54.8   | 48.1   | 36.9 |     |     |     |     |      |
|                    | 25000  | 27.1   | 31.9   | 37.1   | 41.9   | 46.2   | 41.5   | 49.6   | 49.7   | 46.1   | 38.7   | 14.5 |     |     |     |     |      |
|                    | 31500  | 18.9   | 24.3   | 28.9   | 33.3   | 37.1   | 33.8   | 43.8   | 41.9   | 40.8   | 26.9   | 4.0  |     |     |     |     |      |
|                    | 40000  | 7.2    | 13.8   | 17.5   | 22.7   | 27.5   | 25.8   | 31.7   | 36.8   | 27.0   | 12.7   |      |     |     |     |     |      |
|                    | 50000  | 0.8    | 0.8    | 5.7    | 12.0   | 18.2   | 12.2   | 19.9   | 17.8   | 30.7   |        |      |     |     |     |     |      |
|                    | 63000  |        |        |        |        |        | 3.1    |        |        |        |        |      |     |     |     |     |      |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |      |
| OVERALL CALCULATED | 59.8   | 56.9   | 60.2   | 62.7   | 64.9   | 63.5   | 65.2   | 64.6   | 63.3   | 59.8   | 54.4   |      |     |     |     |     |      |
| PNDS               | 61.6   | 64.0   | 67.8   | 69.6   | 72.2   | 70.1   | 72.2   | 74.5   | 72.6   | 74.6   | 69.8   |      |     |     |     |     |      |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (50, DEG, F; 70 PERCENT REL. HUM; DAY) PROC: DATE 4 MONTH 51 DAY HR: 0:0 ANGLE FROM INLET IN DEGREE (AND RADIANS)

|                     | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0  | 100 | 110 | 120 | 130 | 140 | 150 | PWL   |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|-----|-----|-----|-----|-----|-----|-------|
| FREQ                | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0  | 100 | 110 | 120 | 130 | 140 | 150 | PWL   |
|                     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50 | 50  | 50  | 50  | 50  | 50  | 50  | 50    |
| RADIAL 17.54        | 60.9   | 63.2   | 64.7   | 65.7   | 66.2   | 66.9   | 67.5   | 68.2   | 70.2   | 74.5   | 77.9   |    |     |     |     |     |     |     | 103.0 |
| S. M1               | 24.4   | 78.8   | 74.3   | 72.8   | 70.8   | 74.8   | 75.5   | 71.8   | 71.5   | 75.6   | 79.2   |    |     |     |     |     |     |     | 107.8 |
| VEHICLE R455        | 68.5   | 70.5   | 72.1   | 71.3   | 73.1   | 73.6   | 71.1   | 73.3   | 74.8   | 76.2   | 79.0   |    |     |     |     |     |     |     | 107.6 |
| ECDFIC 7502         | 69.2   | 69.0   | 68.5   | 69.3   | 69.3   | 72.5   | 72.5   | 72.5   | 74.8   | 77.4   | 79.2   |    |     |     |     |     |     |     | 107.4 |
| LCC SCENECTADZ      | 67.2   | 68.1   | 68.3   | 69.6   | 70.6   | 74.1   | 73.6   | 75.0   | 76.6   | 79.4   | 80.3   |    |     |     |     |     |     |     | 107.1 |
| DATE 01030-75       | 70.0   | 70.8   | 72.1   | 72.8   | 73.1   | 74.3   | 75.1   | 75.6   | 76.6   | 78.2   | 79.3   |    |     |     |     |     |     |     | 106.8 |
| BLV 7503            | 31.9   | 71.9   | 72.3   | 73.1   | 72.4   | 73.6   | 74.3   | 74.4   | 75.6   | 77.2   | 78.3   |    |     |     |     |     |     |     | 106.5 |
| YAGE 800032         | 69.4   | 70.7   | 73.8   | 71.0   | 71.6   | 72.5   | 73.7   | 74.3   | 75.8   | 77.1   | 77.4   |    |     |     |     |     |     |     | 107.0 |
| BAB 38.0 MD         | 69.1   | 69.4   | 71.7   | 71.7   | 71.7   | 71.4   | 74.6   | 75.4   | 76.2   | 77.5   | 77.1   |    |     |     |     |     |     |     | 107.0 |
| 401402. N/43        | 69.2   | 70.8   | 72.3   | 72.6   | 74.3   | 72.8   | 76.8   | 77.6   | 77.9   | 79.7   | 77.8   |    |     |     |     |     |     |     | 106.4 |
| VAND 38.0 DEG F     | 68.8   | 72.3   | 69.9   | 71.4   | 72.1   | 70.9   | 75.2   | 76.2   | 76.7   | 77.9   | 75.3   |    |     |     |     |     |     |     | 106.1 |
| (276. DEG K)        | 66.7   | 70.8   | 68.6   | 70.1   | 71.8   | 69.3   | 75.5   | 76.1   | 78.1   | 77.9   | 74.5   |    |     |     |     |     |     |     | 106.1 |
| TRET 33.0 DEG F     | 66.3   | 74.3   | 67.9   | 69.4   | 70.9   | 67.8   | 74.6   | 75.7   | 77.0   | 77.8   | 74.3   |    |     |     |     |     |     |     | 107.7 |
| (276. DEG K)        | 65.2   | 68.2   | 69.2   | 71.8   | 72.8   | 71.5   | 77.9   | 77.3   | 79.8   | 81.4   | 74.9   |    |     |     |     |     |     |     | 110.4 |
| WAST 3.53 OM/H3     | 64.8   | 69.1   | 66.9   | 68.4   | 69.1   | 69.6   | 71.8   | 71.9   | 74.8   | 74.8   | 71.7   |    |     |     |     |     |     |     | 104.8 |
| (00333. MD/H3)      | 65.3   | 66.8   | 67.3   | 69.1   | 70.8   | 67.8   | 73.2   | 71.1   | 73.2   | 72.8   | 70.4   |    |     |     |     |     |     |     | 106.6 |
| RFA 622.0 RPM       | 64.8   | 65.9   | 67.1   | 69.2   | 70.9   | 68.8   | 73.8   | 73.2   | 77.8   | 76.6   | 71.3   |    |     |     |     |     |     |     | 106.4 |
| (882. RAD/SEC)      | 63.4   | 64.4   | 66.4   | 68.7   | 70.9   | 68.3   | 73.2   | 73.7   | 78.5   | 76.4   | 71.8   |    |     |     |     |     |     |     | 107.1 |
| RFB 639.0 RPM       | 63.6   | 64.7   | 66.1   | 68.5   | 71.2   | 67.5   | 77.8   | 78.2   | 79.3   | 80.8   | 72.2   |    |     |     |     |     |     |     | 108.8 |
| (886. RAD/SEC)      | 64.2   | 66.3   | 68.2   | 70.8   | 72.4   | 69.1   | 78.8   | 80.7   | 83.4   | 86.3   | 73.1   |    |     |     |     |     |     |     | 111.4 |
| RFB 88.23 RPM       | 60.4   | 68.3   | 70.1   | 71.9   | 74.8   | 71.8   | 81.8   | 81.1   | 85.6   | 87.8   | 75.9   |    |     |     |     |     |     |     | 114.2 |
| (283. RAD/SEC)      | 60.3   | 71.0   | 74.2   | 77.7   | 80.8   | 77.5   | 85.2   | 87.3   | 90.3   | 92.8   | 78.3   |    |     |     |     |     |     |     | 117.8 |
| PAW 7.0 ABS 15      | 61.4   | 78.8   | 83.8   | 87.6   | 91.6   | 87.3   | 92.1   | 94.5   | 92.2   | 88.2   | 83.1   |    |     |     |     |     |     |     | 124.4 |
| RPM TIP SPEED       | 89.9   | 92.4   | 75.9   | 81.1   | 84.3   | 88.8   | 89.1   | 91.1   | 98.8   | 88.8   | 78.2   |    |     |     |     |     |     |     | 121.1 |
| 344. FT/SEC         | 67.7   | 70.4   | 73.9   | 77.4   | 80.5   | 71.7   | 86.5   | 88.7   | 91.3   | 85.4   | 77.5   |    |     |     |     |     |     |     | 120.2 |
| 25000               | 66.2   | 67.7   | 69.3   | 73.2   | 76.8   | 74.2   | 83.8   | 85.7   | 87.7   | 83.5   | 75.3   |    |     |     |     |     |     |     | 117.8 |
| 31500               | 65.8   | 66.8   | 67.8   | 72.9   | 75.6   | 73.6   | 81.2   | 84.7   | 85.6   | 81.8   | 71.8   |    |     |     |     |     |     |     | 116.8 |
| 40000               | 64.3   | 66.1   | 69.8   | 69.5   | 73.8   | 78.6   | 79.6   | 81.9   | 82.9   | 79.2   | 68.4   |    |     |     |     |     |     |     | 115.6 |
| 50000               | 62.7   | 63.6   | 62.2   | 63.1   | 68.4   | 64.4   | 73.8   | 74.8   | 74.9   | 71.9   | 62.5   |    |     |     |     |     |     |     | 110.3 |
| 63000               | 60.2   | 60.5   | 59.1   | 57.3   | 58.4   | 59.1   | 63.1   | 63.5   | 63.9   | 61.8   | 57.7   |    |     |     |     |     |     |     | 103.9 |
| 80000               | 56.5   | 66.8   | 64.6   | 63.8   | 63.2   | 65.4   | 64.6   | 63.9   | 62.7   | 62.8   | 63.1   |    |     |     |     |     |     |     | 112.4 |
| AVERAGE RESULTS     | 63.9   | 65.8   | 67.3   | 68.9   | 69.2   | 69.5   | 66.4   | 69.6   | 69.8   | 69.2   | 61.6   |    |     |     |     |     |     |     | 109.5 |
| OVERALL CALCULATION | 61.7   | 63.3   | 64.1   | 65.9   | 67.8   | 68.4   | 66.4   | 69.1   | 68.9   | 68.8   | 60.4   |    |     |     |     |     |     |     | 108.5 |

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|  | 59    | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 154  | 0    | 0 | 0 | 0 | 0 | 0 |
|--|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|
| FREQ. (0,02)(1,00)(1,24)(1,41)(1,50)(1,70)(1,94)(2,13)(2,32)(2,52)(2,73)(0,0)(0,0)(0,0)(0,0)(0,0)(0,0) |       |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| SIDFLINE 200, FT.  | 80    |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| (00.96 R)  | 83    |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| VEHICLE R-55   | 100   | 38.3 | 41.5 | 42.8 | 44.1 | 44.5 | 46.0 | 47.0 | 48.7 | 49.2 | 51.1 | 51.5 |   |   |   |   |   |
| CONFIG 75-2  | 125   | 43.0 | 49.7 | 49.3 | 49.8 | 50.4 | 49.3 | 46.0 | 47.0 | 50.9 | 52.8 | 51.2 |   |   |   |   |   |
| LOC SCHENECTADY  | 160   | 47.0 | 49.3 | 49.3 | 50.7 | 50.5 | 50.1 | 52.0 | 53.0 | 53.3 | 54.0 | 52.0 |   |   |   |   |   |
| DATE 01-16-75  | 200   | 46.5 | 47.0 | 49.3 | 50.4 | 51.0 | 53.1 | 54.1 | 55.0 | 54.1 | 55.0 | 53.0 |   |   |   |   |   |
| RUN 71-4   | 250   | 49.4 | 51.5 | 53.3 | 54.1 | 55.0 | 55.3 | 56.1 | 55.4 | 55.0 | 54.3 | 52.9 |   |   |   |   |   |
| TAPP   | 315   | 50.3 | 51.9 | 53.2 | 54.0 | 54.1 | 52.5 | 54.7 | 54.3 | 53.9 | 54.7 | 51.2 |   |   |   |   |   |
| BAR 30.0 HG  | 400   | 46.6 | 50.2 | 50.0 | 52.1 | 52.7 | 51.0 | 54.0 | 54.4 | 53.2 | 52.7 | 50.1 |   |   |   |   |   |
| (01407, R/M2)  | 500   | 48.4 | 48.2 | 49.7 | 51.2 | 52.3 | 50.1 | 54.0 | 54.7 | 54.0 | 52.7 | 49.3 |   |   |   |   |   |
| TANK 30, DEG F   | 600   | 46.0 | 49.0 | 50.3 | 52.7 | 54.1 | 51.4 | 56.1 | 56.2 | 55.0 | 52.9 | 48.4 |   |   |   |   |   |
| (270, DEG K)   | 800   | 47.3 | 48.5 | 49.7 | 52.1 | 52.0 | 49.3 | 54.0 | 55.4 | 54.1 | 52.0 | 46.9 |   |   |   |   |   |
| TNEY 34, DEG F   | 1000  | 45.6 | 47.0 | 48.5 | 50.3 | 52.1 | 47.7 | 54.0 | 55.2 | 54.7 | 51.7 | 46.3 |   |   |   |   |   |
| (274, DEG K)   | 1250  | 44.0 | 46.2 | 48.2 | 49.9 | 51.3 | 47.1 | 54.0 | 54.6 | 53.6 | 50.9 | 45.0 |   |   |   |   |   |
| MACT 4.03 G/M3   | 1600  | 44.7 | 47.4 | 49.1 | 51.1 | 51.5 | 46.3 | 53.4 | 53.0 | 54.2 | 51.7 | 44.1 |   |   |   |   |   |
| (1.00403 KG/M3)  | 2000  | 43.0 | 46.0 | 47.3 | 49.3 | 50.4 | 45.2 | 52.3 | 52.2 | 52.8 | 49.0 | 42.5 |   |   |   |   |   |
| NFA 6590, RPM  | 2500  | 42.0 | 45.0 | 47.3 | 49.4 | 50.7 | 44.7 | 50.3 | 50.5 | 51.1 | 46.2 | 40.7 |   |   |   |   |   |
| ( 733, RAD/SEC)  | 3150  | 42.3 | 44.0 | 46.1 | 48.6 | 51.5 | 46.4 | 52.1 | 51.9 | 53.5 | 47.8 | 40.0 |   |   |   |   |   |
| NFK 7144, RPM  | 4000  | 40.3 | 43.1 | 44.9 | 46.0 | 50.6 | 45.2 | 51.0 | 53.5 | 54.4 | 47.0 | 38.9 |   |   |   |   |   |
| ( 740, RAD/SEC)  | 5000  | 40.2 | 42.1 | 44.9 | 47.0 | 50.1 | 45.2 | 54.0 | 55.2 | 54.9 | 47.0 | 38.1 |   |   |   |   |   |
| NFB 8023, RPM  | 6300  | 39.3 | 43.1 | 45.2 | 48.2 | 50.1 | 46.3 | 53.0 | 56.3 | 57.2 | 49.5 | 37.0 |   |   |   |   |   |
| ( 924, RAD/SEC)  | 8000  | 39.0 | 43.1 | 45.7 | 49.1 | 51.4 | 47.0 | 56.0 | 58.2 | 58.4 | 50.0 | 36.0 |   |   |   |   |   |
| NO. OF BLADES 15   | 10000 | 38.5 | 41.6 | 46.2 | 49.8 | 52.2 | 47.0 | 57.0 | 58.1 | 57.4 | 47.5 | 35.5 |   |   |   |   |   |
| FAN TIP SPEED  | 12500 | 38.6 | 43.3 | 48.6 | 53.7 | 57.2 | 51.4 | 58.7 | 59.1 | 58.3 | 49.4 | 29.6 |   |   |   |   |   |
| 611, FT/SEC  | 16000 | 35.4 | 38.0 | 45.0 | 50.7 | 54.2 | 49.0 | 55.0 | 55.7 | 51.0 | 38.5 | 19.5 |   |   |   |   |   |
|  | 20000 | 25.6 | 32.5 | 38.0 | 43.5 | 46.9 | 42.1 | 50.2 | 49.6 | 47.0 | 32.1 | 7.0  |   |   |   |   |   |
|  | 25000 | 15.9 | 21.5 | 27.0 | 32.4 | 37.0 | 33.3 | 40.2 | 39.0 | 34.5 | 18.0 |      |   |   |   |   |   |
|  | 31500 | 11.2 | 9.1  | 14.7 | 21.3 | 25.0 | 20.7 | 28.0 | 28.0 | 24.0 | 10.0 |      |   |   |   |   |   |
|  | 40000 |      |      |      | 14.4 | 6.2  | 3.7  | 10.1 | 11.1 |      |      |      |   |   |   |   |   |
|  | 50000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
|  | 63000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
|  | 80000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| OVERALL CALCULATED   |       | 59.3 | 62.1 | 63.4 | 65.1 | 66.5 | 68.4 | 68.0 | 69.8 | 68.3 | 69.2 | 68.4 |   |   |   |   |   |
| PROB   |       | 69.4 | 71.0 | 72.7 | 74.0 | 74.0 | 75.7 | 79.0 | 79.7 | 79.0 | 74.0 | 68.3 |   |   |   |   |   |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC: DATE & MONTH 10 00 00 00

MODEL SOUND PRESSURE LEVELS (50, DEG; 70 PERCENT REL. HUM.; DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.  | ANGLE |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|        | 0     | 15   | 30   | 45   | 60   | 75   | 90   | 105  | 120  | 135  | 150  | 165  | 180  | 195  |
| 50     | 83.4  | 85.2 | 86.2 | 87.7 | 88.8 | 89.2 | 89.5 | 89.2 | 88.5 | 87.2 | 85.4 | 83.4 | 81.2 | 79.0 |
| 100    | 87.4  | 91.0 | 91.5 | 91.0 | 90.5 | 89.5 | 88.0 | 86.0 | 83.5 | 80.5 | 77.0 | 73.0 | 68.5 | 64.0 |
| 125    | 94.0  | 97.0 | 96.0 | 95.0 | 93.5 | 91.5 | 89.0 | 86.0 | 82.5 | 78.5 | 74.0 | 69.0 | 64.0 | 59.0 |
| 150    | 73.7  | 74.5 | 74.0 | 73.0 | 71.5 | 70.0 | 68.0 | 65.5 | 62.5 | 59.0 | 55.0 | 51.0 | 47.0 | 43.0 |
| 200    | 72.7  | 72.0 | 73.1 | 74.0 | 74.4 | 74.9 | 75.3 | 75.0 | 74.0 | 72.5 | 70.5 | 68.0 | 65.0 | 62.0 |
| 250    | 70.0  | 70.5 | 69.1 | 68.0 | 66.0 | 64.0 | 62.0 | 60.0 | 58.0 | 56.0 | 54.0 | 52.0 | 50.0 | 48.0 |
| 315    | 77.2  | 77.0 | 77.0 | 76.9 | 76.4 | 75.9 | 75.0 | 73.5 | 71.5 | 69.0 | 66.0 | 63.0 | 60.0 | 57.0 |
| 400    | 76.2  | 76.7 | 76.3 | 77.5 | 78.0 | 77.7 | 77.5 | 76.5 | 74.5 | 72.0 | 69.0 | 66.0 | 63.0 | 60.0 |
| 500    | 74.1  | 74.6 | 74.9 | 75.9 | 77.2 | 77.2 | 76.1 | 74.5 | 72.0 | 69.0 | 66.0 | 63.0 | 60.0 | 57.0 |
| 630    | 75.0  | 74.0 | 73.0 | 77.3 | 79.6 | 78.3 | 76.5 | 74.0 | 71.0 | 68.0 | 65.0 | 62.0 | 59.0 | 56.0 |
| 800    | 74.0  | 75.1 | 76.4 | 76.9 | 76.1 | 74.1 | 71.0 | 68.0 | 65.0 | 62.0 | 59.0 | 56.0 | 53.0 | 50.0 |
| 1000   | 73.2  | 73.0 | 74.0 | 76.3 | 77.0 | 75.0 | 72.0 | 69.0 | 66.0 | 63.0 | 60.0 | 57.0 | 54.0 | 51.0 |
| 1250   | 73.0  | 72.0 | 73.9 | 75.7 | 77.1 | 74.0 | 71.0 | 68.0 | 65.0 | 62.0 | 59.0 | 56.0 | 53.0 | 50.0 |
| 1600   | 72.0  | 72.7 | 73.7 | 75.3 | 76.5 | 73.7 | 70.4 | 67.0 | 64.0 | 61.0 | 58.0 | 55.0 | 52.0 | 49.0 |
| 2000   | 73.0  | 73.0 | 73.1 | 76.2 | 77.0 | 73.3 | 70.0 | 67.0 | 64.0 | 61.0 | 58.0 | 55.0 | 52.0 | 49.0 |
| 2500   | 71.0  | 72.3 | 72.0 | 75.4 | 76.1 | 72.7 | 70.0 | 67.0 | 64.0 | 61.0 | 58.0 | 55.0 | 52.0 | 49.0 |
| 3150   | 71.1  | 71.9 | 71.0 | 74.9 | 76.0 | 73.5 | 70.5 | 67.5 | 64.5 | 61.5 | 58.5 | 55.5 | 52.5 | 49.5 |
| 4000   | 70.1  | 71.6 | 72.0 | 74.9 | 77.4 | 74.0 | 71.0 | 68.0 | 65.0 | 62.0 | 59.0 | 56.0 | 53.0 | 50.0 |
| 5000   | 69.4  | 70.4 | 72.1 | 74.5 | 77.4 | 73.5 | 70.5 | 67.5 | 64.5 | 61.5 | 58.5 | 55.5 | 52.5 | 49.5 |
| 6300   | 70.0  | 71.3 | 73.2 | 75.7 | 78.1 | 75.0 | 72.0 | 69.0 | 66.0 | 63.0 | 60.0 | 57.0 | 54.0 | 51.0 |
| 8000   | 71.2  | 73.4 | 74.0 | 77.0 | 79.0 | 77.0 | 74.0 | 71.0 | 68.0 | 65.0 | 62.0 | 59.0 | 56.0 | 53.0 |
| 10000  | 71.0  | 73.7 | 75.0 | 78.0 | 81.0 | 78.0 | 75.0 | 72.0 | 69.0 | 66.0 | 63.0 | 60.0 | 57.0 | 54.0 |
| 12500  | 73.3  | 75.9 | 76.7 | 82.0 | 85.0 | 81.5 | 78.5 | 75.5 | 72.5 | 69.5 | 66.5 | 63.5 | 60.5 | 57.5 |
| 16000  | 73.0  | 77.2 | 80.4 | 84.0 | 87.0 | 83.5 | 80.5 | 77.5 | 74.5 | 71.5 | 68.5 | 65.5 | 62.5 | 59.5 |
| 20000  | 74.3  | 78.2 | 82.0 | 85.5 | 88.5 | 85.0 | 82.0 | 79.0 | 76.0 | 73.0 | 70.0 | 67.0 | 64.0 | 61.0 |
| 25000  | 72.3  | 75.0 | 76.0 | 82.0 | 85.0 | 83.0 | 80.0 | 77.0 | 74.0 | 71.0 | 68.0 | 65.0 | 62.0 | 59.0 |
| 31500  | 70.0  | 73.2 | 76.0 | 80.5 | 83.5 | 81.5 | 78.5 | 75.5 | 72.5 | 69.5 | 66.5 | 63.5 | 60.5 | 57.5 |
| 40000  | 69.7  | 71.4 | 73.0 | 77.5 | 80.0 | 78.0 | 75.0 | 72.0 | 69.0 | 66.0 | 63.0 | 60.0 | 57.0 | 54.0 |
| 50000  | 64.0  | 66.0 | 67.1 | 70.0 | 73.3 | 71.0 | 68.0 | 65.0 | 62.0 | 59.0 | 56.0 | 53.0 | 50.0 | 47.0 |
| 63000  | 60.0  | 61.0 | 61.9 | 66.0 | 68.4 | 66.7 | 64.0 | 61.0 | 58.0 | 55.0 | 52.0 | 49.0 | 46.0 | 43.0 |
| 80000  | 61.2  | 67.0 | 69.0 | 64.1 | 64.1 | 60.0 | 56.0 | 53.0 | 50.0 | 47.0 | 44.0 | 41.0 | 38.0 | 35.0 |
| 100000 | 62.0  | 69.1 | 69.7 | 65.2 | 65.3 | 61.0 | 57.0 | 54.0 | 51.0 | 48.0 | 45.0 | 42.0 | 39.0 | 36.0 |
| 125000 | 62.0  | 69.0 | 69.0 | 65.0 | 65.0 | 61.0 | 57.0 | 54.0 | 51.0 | 48.0 | 45.0 | 42.0 | 39.0 | 36.0 |

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BASE 3 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 12 DAY 8 AM 8:4

MODEL SOUND PRESSURE LEVELS (SPL) IN DECIBELS (70 PERCENT REL. HUM. DAT) 0:4  
ANGLES FROM INLET IN DEGREES (AND RADIAN(S))

| ANGLE                  | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     | 95     | 100    | 110    | 120    | 130    | 140    | 150    | 160    | 170    | 180    |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ                   | (0.72) | (1.00) | (1.26) | (1.41) | (1.58) | (1.76) | (1.94) | (2.12) | (2.32) | (2.52) | (2.73) | (2.95) | (3.18) | (3.42) | (3.66) | (3.90) | (4.15) | (4.40) |
| SIDE LINE 3000 Y77     |        |        | 39.0   | 42.3   | 44.2   | 46.1   | 48.5   | 50.5   | 52.3   | 54.2   | 56.4   | 58.4   | 60.4   | 62.4   | 64.4   | 66.4   | 68.4   | 70.4   |
| VEHICLE 60.76 MI 3000  |        |        | 43.7   | 48.2   | 49.4   | 50.1   | 50.9   | 51.8   | 52.8   | 53.8   | 54.7   | 55.6   | 56.5   | 57.4   | 58.3   | 59.2   | 60.1   | 61.0   |
| PCY 10 3055 3000       |        |        | 48.2   | 54.2   | 54.8   | 55.3   | 55.9   | 56.5   | 57.0   | 57.5   | 58.0   | 58.5   | 59.0   | 59.5   | 60.0   | 60.5   | 61.0   | 61.5   |
| CCU SCENECLAYG 3000    |        |        | 48.8   | 55.3   | 56.8   | 57.7   | 58.6   | 59.5   | 60.4   | 61.3   | 62.2   | 63.1   | 64.0   | 64.9   | 65.8   | 66.7   | 67.6   | 68.5   |
| DAYE 1203-75 3000      |        |        | 53.9   | 60.3   | 61.7   | 62.6   | 63.5   | 64.4   | 65.3   | 66.2   | 67.1   | 68.0   | 68.9   | 69.8   | 70.7   | 71.6   | 72.5   | 73.4   |
| GLU 7103 3000          |        |        | 53.3   | 60.4   | 61.6   | 62.8   | 63.9   | 65.0   | 66.1   | 67.2   | 68.3   | 69.4   | 70.5   | 71.6   | 72.7   | 73.8   | 74.9   | 76.0   |
| TAGE 2000 3000         |        |        | 51.5   | 58.4   | 59.7   | 60.3   | 60.9   | 61.5   | 62.1   | 62.7   | 63.3   | 63.9   | 64.5   | 65.1   | 65.7   | 66.3   | 66.9   | 67.5   |
| GAN 3070 MD 3000       |        |        | 47.7   | 51.2   | 52.2   | 53.7   | 55.0   | 56.3   | 57.6   | 58.9   | 60.2   | 61.5   | 62.8   | 64.1   | 65.4   | 66.7   | 68.0   | 69.3   |
| 481487 M742 3000       |        |        | 50.3   | 51.3   | 53.0   | 55.0   | 57.3   | 59.9   | 62.4   | 64.8   | 67.2   | 69.6   | 72.0   | 74.4   | 76.8   | 79.2   | 81.6   | 84.0   |
| YAND 30 285 F 3000     |        |        | 50.1   | 51.5   | 52.5   | 54.0   | 55.8   | 57.6   | 59.4   | 61.2   | 63.0   | 64.8   | 66.6   | 68.4   | 70.2   | 72.0   | 73.8   | 75.6   |
| YANT (270, DEG F) 1000 |        |        | 48.6   | 50.8   | 51.5   | 52.7   | 54.0   | 55.3   | 56.6   | 57.9   | 59.2   | 60.5   | 61.8   | 63.1   | 64.4   | 65.7   | 67.0   | 68.3   |
| YANT (270, DEG F) 1200 |        |        | 48.8   | 50.8   | 50.9   | 52.0   | 53.5   | 54.8   | 56.2   | 57.5   | 58.8   | 60.1   | 61.4   | 62.7   | 64.0   | 65.3   | 66.6   | 67.9   |
| YANT (270, DEG F) 1800 |        |        | 47.2   | 50.6   | 50.4   | 52.4   | 53.7   | 54.8   | 56.0   | 57.2   | 58.4   | 59.6   | 60.8   | 62.0   | 63.2   | 64.4   | 65.6   | 66.8   |
| MADT 403 GM/W 2000     |        |        | 47.6   | 49.5   | 51.5   | 53.2   | 54.9   | 56.6   | 58.3   | 59.9   | 61.6   | 63.2   | 64.8   | 66.4   | 68.0   | 69.6   | 71.2   | 72.8   |
| MADT 403 GM/W 2500     |        |        | 46.2   | 47.8   | 49.1   | 51.1   | 52.9   | 54.7   | 56.5   | 58.3   | 60.1   | 61.9   | 63.7   | 65.5   | 67.3   | 69.1   | 70.9   | 72.7   |
| 7770 MD 3000           |        |        | 45.8   | 47.8   | 48.6   | 51.4   | 53.2   | 54.9   | 56.6   | 58.3   | 60.0   | 61.7   | 63.4   | 65.1   | 66.8   | 68.5   | 70.2   | 71.9   |
| L 300. RAD 3001 4000   |        |        | 43.3   | 44.3   | 48.4   | 51.9   | 54.1   | 56.8   | 58.8   | 60.5   | 62.2   | 63.9   | 65.6   | 67.3   | 69.0   | 70.7   | 72.4   | 74.1   |
| 3032. RAD 5000         |        |        | 42.3   | 44.8   | 47.4   | 50.3   | 53.3   | 56.2   | 59.1   | 61.9   | 64.7   | 67.5   | 70.3   | 73.1   | 75.9   | 78.7   | 81.5   | 84.3   |
| L 020. RAD 0205 3000   |        |        | 42.8   | 45.1   | 47.7   | 50.7   | 53.7   | 56.6   | 59.5   | 62.4   | 65.3   | 68.2   | 71.1   | 74.0   | 76.9   | 79.8   | 82.7   | 85.6   |
| 0033. MDN 3000         |        |        | 42.1   | 45.8   | 48.9   | 51.6   | 54.0   | 56.7   | 59.4   | 62.1   | 64.8   | 67.5   | 70.2   | 72.9   | 75.6   | 78.3   | 81.0   | 83.7   |
| 0034. RAD 0035 2000    |        |        | 41.3   | 44.4   | 47.3   | 50.5   | 53.7   | 56.8   | 59.8   | 62.8   | 65.8   | 68.8   | 71.8   | 74.8   | 77.8   | 80.8   | 83.8   | 86.8   |
| 0035. RAD 0036 1200    |        |        | 39.6   | 44.8   | 48.1   | 51.2   | 54.3   | 57.4   | 60.5   | 63.6   | 66.7   | 69.8   | 72.9   | 76.0   | 79.1   | 82.2   | 85.3   | 88.4   |
| TAN TIP SPEED 2000     |        |        | 34.7   | 31.2   | 40.1   | 51.2   | 53.9   | 57.0   | 59.7   | 62.4   | 65.1   | 67.8   | 70.5   | 73.2   | 75.9   | 78.6   | 81.3   | 84.0   |
| 0707 PT/SEC 20000      |        |        | 34.6   | 34.6   | 42.6   | 49.2   | 50.4   | 49.3   | 54.8   | 62.0   | 69.2   | 76.4   | 83.6   | 90.8   | 98.0   | 105.2  | 112.4  | 119.6  |
| 25000                  |        |        | 29.8   | 27.8   | 32.8   | 36.9   | 41.9   | 46.9   | 51.9   | 56.9   | 61.9   | 66.9   | 71.9   | 76.9   | 81.9   | 86.9   | 91.9   | 96.9   |
| 31000                  |        |        | 30.9   |        | 19.3   | 29.3   | 29.3   | 29.3   | 29.3   | 33.3   | 33.3   | 33.3   | 33.3   | 33.3   | 33.3   | 33.3   | 33.3   | 33.3   |
| 40000                  |        |        | 30.0   |        | 18.9   | 28.9   | 28.9   | 28.9   | 28.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   |
| 50000                  |        |        | 30.0   |        | 18.9   | 28.9   | 28.9   | 28.9   | 28.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   |
| 60000                  |        |        | 30.0   |        | 18.9   | 28.9   | 28.9   | 28.9   | 28.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   |
| 70000                  |        |        | 30.0   |        | 18.9   | 28.9   | 28.9   | 28.9   | 28.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   |
| 80000                  |        |        | 30.0   |        | 18.9   | 28.9   | 28.9   | 28.9   | 28.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   |
| 90000                  |        |        | 30.0   |        | 18.9   | 28.9   | 28.9   | 28.9   | 28.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   |
| AVERAGE SPL            |        |        | 62.1   | 61.8   | 68.4   | 67.2   | 69.6   | 69.9   | 74.2   | 71.7   | 71.2   | 68.9   | 66.7   | 64.2   | 64.2   | 64.2   | 64.2   | 64.2   |
| PRR                    |        |        | 71.6   | 73.3   | 79.1   | 77.6   | 79.6   | 77.8   | 81.6   | 82.6   | 83.8   | 77.8   | 71.9   | 71.9   | 71.9   | 71.9   | 71.9   | 71.9   |

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BASE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (90° DEC; 75 PERCENT REL. HUM, DAY)  
 PROC DATE - MONTH 00 DAY 00 HR 00  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

| FREQ | ANGLE |      |       |       |       |       |       |       |       |       |       |       |       |       |     |     |
|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|
|      | 0     | 15   | 30    | 45    | 60    | 75    | 90    | 105   | 120   | 135   | 150   | 165   | 180   | 195   | 210 | 225 |
| 100  | 30.5  | 30.0 | 44.7  | 46.1  | 47.0  | 48.9  | 50.0  | 51.9  | 52.8  | 51.2  | 52.2  | 53.1  | 55.1  | 55.1  |     |     |
| 125  | 31.5  | 30.2 | 49.9  | 50.3  | 50.7  | 52.0  | 53.0  | 54.8  | 54.8  | 54.7  | 54.1  | 54.5  | 56.5  | 56.5  |     |     |
| 150  | 32.0  | 31.3 | 52.3  | 53.2  | 53.8  | 54.1  | 55.4  | 56.4  | 56.9  | 56.9  | 56.0  | 57.0  | 59.0  | 59.0  |     |     |
| 175  | 32.5  | 31.8 | 54.3  | 55.2  | 55.7  | 56.0  | 57.1  | 57.8  | 58.1  | 57.5  | 57.6  | 58.5  | 60.5  | 60.5  |     |     |
| 200  | 33.0  | 32.0 | 56.3  | 57.2  | 57.5  | 57.8  | 58.8  | 59.5  | 59.7  | 59.0  | 59.4  | 61.4  | 63.4  | 63.4  |     |     |
| 225  | 33.5  | 32.5 | 58.3  | 59.2  | 59.5  | 59.8  | 60.8  | 61.5  | 61.7  | 61.0  | 61.4  | 63.4  | 65.4  | 65.4  |     |     |
| 250  | 34.0  | 33.0 | 60.3  | 61.2  | 61.5  | 61.8  | 62.8  | 63.5  | 63.7  | 63.0  | 63.4  | 65.4  | 67.4  | 67.4  |     |     |
| 275  | 34.5  | 33.5 | 62.3  | 63.2  | 63.5  | 63.8  | 64.8  | 65.5  | 65.7  | 65.0  | 65.4  | 67.4  | 69.4  | 69.4  |     |     |
| 300  | 35.0  | 34.0 | 64.3  | 65.2  | 65.5  | 65.8  | 66.8  | 67.5  | 67.7  | 67.0  | 67.4  | 69.4  | 71.4  | 71.4  |     |     |
| 325  | 35.5  | 34.5 | 66.3  | 67.2  | 67.5  | 67.8  | 68.8  | 69.5  | 69.7  | 69.0  | 69.4  | 71.4  | 73.4  | 73.4  |     |     |
| 350  | 36.0  | 35.0 | 68.3  | 69.2  | 69.5  | 69.8  | 70.8  | 71.5  | 71.7  | 71.0  | 71.4  | 73.4  | 75.4  | 75.4  |     |     |
| 375  | 36.5  | 35.5 | 70.3  | 71.2  | 71.5  | 71.8  | 72.8  | 73.5  | 73.7  | 73.0  | 73.4  | 75.4  | 77.4  | 77.4  |     |     |
| 400  | 37.0  | 36.0 | 72.3  | 73.2  | 73.5  | 73.8  | 74.8  | 75.5  | 75.7  | 75.0  | 75.4  | 77.4  | 79.4  | 79.4  |     |     |
| 425  | 37.5  | 36.5 | 74.3  | 75.2  | 75.5  | 75.8  | 76.8  | 77.5  | 77.7  | 77.0  | 77.4  | 79.4  | 81.4  | 81.4  |     |     |
| 450  | 38.0  | 37.0 | 76.3  | 77.2  | 77.5  | 77.8  | 78.8  | 79.5  | 79.7  | 79.0  | 79.4  | 81.4  | 83.4  | 83.4  |     |     |
| 475  | 38.5  | 37.5 | 78.3  | 79.2  | 79.5  | 79.8  | 80.8  | 81.5  | 81.7  | 81.0  | 81.4  | 83.4  | 85.4  | 85.4  |     |     |
| 500  | 39.0  | 38.0 | 80.3  | 81.2  | 81.5  | 81.8  | 82.8  | 83.5  | 83.7  | 83.0  | 83.4  | 85.4  | 87.4  | 87.4  |     |     |
| 525  | 39.5  | 38.5 | 82.3  | 83.2  | 83.5  | 83.8  | 84.8  | 85.5  | 85.7  | 85.0  | 85.4  | 87.4  | 89.4  | 89.4  |     |     |
| 550  | 40.0  | 39.0 | 84.3  | 85.2  | 85.5  | 85.8  | 86.8  | 87.5  | 87.7  | 87.0  | 87.4  | 89.4  | 91.4  | 91.4  |     |     |
| 575  | 40.5  | 39.5 | 86.3  | 87.2  | 87.5  | 87.8  | 88.8  | 89.5  | 89.7  | 89.0  | 89.4  | 91.4  | 93.4  | 93.4  |     |     |
| 600  | 41.0  | 40.0 | 88.3  | 89.2  | 89.5  | 89.8  | 90.8  | 91.5  | 91.7  | 91.0  | 91.4  | 93.4  | 95.4  | 95.4  |     |     |
| 625  | 41.5  | 40.5 | 90.3  | 91.2  | 91.5  | 91.8  | 92.8  | 93.5  | 93.7  | 93.0  | 93.4  | 95.4  | 97.4  | 97.4  |     |     |
| 650  | 42.0  | 41.0 | 92.3  | 93.2  | 93.5  | 93.8  | 94.8  | 95.5  | 95.7  | 95.0  | 95.4  | 97.4  | 99.4  | 99.4  |     |     |
| 675  | 42.5  | 41.5 | 94.3  | 95.2  | 95.5  | 95.8  | 96.8  | 97.5  | 97.7  | 97.0  | 97.4  | 99.4  | 101.4 | 101.4 |     |     |
| 700  | 43.0  | 42.0 | 96.3  | 97.2  | 97.5  | 97.8  | 98.8  | 99.5  | 99.7  | 99.0  | 99.4  | 101.4 | 103.4 | 103.4 |     |     |
| 725  | 43.5  | 42.5 | 98.3  | 99.2  | 99.5  | 99.8  | 100.8 | 101.5 | 101.7 | 101.0 | 101.4 | 103.4 | 105.4 | 105.4 |     |     |
| 750  | 44.0  | 43.0 | 100.3 | 101.2 | 101.5 | 101.8 | 102.8 | 103.5 | 103.7 | 103.0 | 103.4 | 105.4 | 107.4 | 107.4 |     |     |
| 775  | 44.5  | 43.5 | 102.3 | 103.2 | 103.5 | 103.8 | 104.8 | 105.5 | 105.7 | 105.0 | 105.4 | 107.4 | 109.4 | 109.4 |     |     |
| 800  | 45.0  | 44.0 | 104.3 | 105.2 | 105.5 | 105.8 | 106.8 | 107.5 | 107.7 | 107.0 | 107.4 | 109.4 | 111.4 | 111.4 |     |     |
| 825  | 45.5  | 44.5 | 106.3 | 107.2 | 107.5 | 107.8 | 108.8 | 109.5 | 109.7 | 109.0 | 109.4 | 111.4 | 113.4 | 113.4 |     |     |
| 850  | 46.0  | 45.0 | 108.3 | 109.2 | 109.5 | 109.8 | 110.8 | 111.5 | 111.7 | 111.0 | 111.4 | 113.4 | 115.4 | 115.4 |     |     |
| 875  | 46.5  | 45.5 | 110.3 | 111.2 | 111.5 | 111.8 | 112.8 | 113.5 | 113.7 | 113.0 | 113.4 | 115.4 | 117.4 | 117.4 |     |     |
| 900  | 47.0  | 46.0 | 112.3 | 113.2 | 113.5 | 113.8 | 114.8 | 115.5 | 115.7 | 115.0 | 115.4 | 117.4 | 119.4 | 119.4 |     |     |
| 925  | 47.5  | 46.5 | 114.3 | 115.2 | 115.5 | 115.8 | 116.8 | 117.5 | 117.7 | 117.0 | 117.4 | 119.4 | 121.4 | 121.4 |     |     |
| 950  | 48.0  | 47.0 | 116.3 | 117.2 | 117.5 | 117.8 | 118.8 | 119.5 | 119.7 | 119.0 | 119.4 | 121.4 | 123.4 | 123.4 |     |     |
| 975  | 48.5  | 47.5 | 118.3 | 119.2 | 119.5 | 119.8 | 120.8 | 121.5 | 121.7 | 121.0 | 121.4 | 123.4 | 125.4 | 125.4 |     |     |
| 1000 | 49.0  | 48.0 | 120.3 | 121.2 | 121.5 | 121.8 | 122.8 | 123.5 | 123.7 | 123.0 | 123.4 | 125.4 | 127.4 | 127.4 |     |     |
| 1025 | 49.5  | 48.5 | 122.3 | 123.2 | 123.5 | 123.8 | 124.8 | 125.5 | 125.7 | 125.0 | 125.4 | 127.4 | 129.4 | 129.4 |     |     |
| 1050 | 50.0  | 49.0 | 124.3 | 125.2 | 125.5 | 125.8 | 126.8 | 127.5 | 127.7 | 127.0 | 127.4 | 129.4 | 131.4 | 131.4 |     |     |
| 1075 | 50.5  | 49.5 | 126.3 | 127.2 | 127.5 | 127.8 | 128.8 | 129.5 | 129.7 | 129.0 | 129.4 | 131.4 | 133.4 | 133.4 |     |     |
| 1100 | 51.0  | 50.0 | 128.3 | 129.2 | 129.5 | 129.8 | 130.8 | 131.5 | 131.7 | 131.0 | 131.4 | 133.4 | 135.4 | 135.4 |     |     |
| 1125 | 51.5  | 50.5 | 130.3 | 131.2 | 131.5 | 131.8 | 132.8 | 133.5 | 133.7 | 133.0 | 133.4 | 135.4 | 137.4 | 137.4 |     |     |
| 1150 | 52.0  | 51.0 | 132.3 | 133.2 | 133.5 | 133.8 | 134.8 | 135.5 | 135.7 | 135.0 | 135.4 | 137.4 | 139.4 | 139.4 |     |     |
| 1175 | 52.5  | 51.5 | 134.3 | 135.2 | 135.5 | 135.8 | 136.8 | 137.5 | 137.7 | 137.0 | 137.4 | 139.4 | 141.4 | 141.4 |     |     |
| 1200 | 53.0  | 52.0 | 136.3 | 137.2 | 137.5 | 137.8 | 138.8 | 139.5 | 139.7 | 139.0 | 139.4 | 141.4 | 143.4 | 143.4 |     |     |
| 1225 | 53.5  | 52.5 | 138.3 | 139.2 | 139.5 | 139.8 | 140.8 | 141.5 | 141.7 | 141.0 | 141.4 | 143.4 | 145.4 | 145.4 |     |     |
| 1250 | 54.0  | 53.0 | 140.3 | 141.2 | 141.5 | 141.8 | 142.8 | 143.5 | 143.7 | 143.0 | 143.4 | 145.4 | 147.4 | 147.4 |     |     |
| 1275 | 54.5  | 53.5 | 142.3 | 143.2 | 143.5 | 143.8 | 144.8 | 145.5 | 145.7 | 145.0 | 145.4 | 147.4 | 149.4 | 149.4 |     |     |
| 1300 | 55.0  | 54.0 | 144.3 | 145.2 | 145.5 | 145.8 | 146.8 | 147.5 | 147.7 | 147.0 | 147.4 | 149.4 | 151.4 | 151.4 |     |     |
| 1325 | 55.5  | 54.5 | 146.3 | 147.2 | 147.5 | 147.8 | 148.8 | 149.5 | 149.7 | 149.0 | 149.4 | 151.4 | 153.4 | 153.4 |     |     |
| 1350 | 56.0  | 55.0 | 148.3 | 149.2 | 149.5 | 149.8 | 150.8 | 151.5 | 151.7 | 151.0 | 151.4 | 153.4 | 155.4 | 155.4 |     |     |
| 1375 | 56.5  | 55.5 | 150.3 | 151.2 | 151.5 | 151.8 | 152.8 | 153.5 | 153.7 | 153.0 | 153.4 | 155.4 | 157.4 | 157.4 |     |     |
| 1400 | 57.0  | 56.0 | 152.3 | 153.2 | 153.5 | 153.8 | 154.8 | 155.5 | 155.7 | 155.0 | 155.4 | 157.4 | 159.4 | 159.4 |     |     |
| 1425 | 57.5  | 56.5 | 154.3 | 155.2 | 155.5 | 155.8 | 156.8 | 157.5 | 157.7 | 157.0 | 157.4 | 159.4 | 161.4 | 161.4 |     |     |
| 1450 | 58.0  | 57.0 | 156.3 | 157.2 | 157.5 | 157.8 | 158.8 | 159.5 | 159.7 | 159.0 | 159.4 | 161.4 | 163.4 | 163.4 |     |     |
| 1475 | 58.5  | 57.5 | 158.3 | 159.2 | 159.5 | 159.8 | 160.8 | 161.5 | 161.7 | 161.0 | 161.4 | 163.4 | 165.4 | 165.4 |     |     |
| 1500 | 59.0  | 58.0 | 160.3 | 161.2 | 161.5 | 161.8 | 162.8 | 163.5 | 163.7 | 163.0 | 163.4 | 165.4 | 167.4 | 167.4 |     |     |
| 1525 | 59.5  | 58.5 | 162.3 | 163.2 | 163.5 | 163.8 | 164.8 | 165.5 | 165.7 | 165.0 | 165.4 | 167.4 | 169.4 | 169.4 |     |     |
| 1550 | 60.0  | 59.0 | 164.3 | 165.2 | 165.5 | 165.8 | 166.8 | 167.5 | 167.7 | 167.0 | 167.4 | 169.4 | 171.4 | 171.4 |     |     |
| 1575 | 60.5  | 59.5 | 166.3 | 167.2 | 167.5 | 167.8 | 168.8 | 169.5 | 169.7 | 169.0 | 169.4 | 171.4 | 173.4 | 173.4 |     |     |
| 1600 | 61.0  | 60.0 | 168.3 | 169.2 | 169.5 | 169.8 | 170.8 | 171.5 | 171.7 | 171.0 | 171.4 | 173.4 | 175.4 | 175.4 |     |     |
| 1625 | 61.5  | 60.5 | 170.3 | 171.2 | 171.5 | 171.8 | 172.8 | 173.5 | 173.7 | 173.0 | 173.4 | 175.4 | 177.4 | 177.4 |     |     |
| 1650 | 62.0  | 61.0 | 172.3 | 173.2 | 173.5 | 173.8 | 174.8 | 175.5 | 175.7 | 175.0 | 175.4 | 177.4 | 179.4 | 179.4 |     |     |
| 1675 | 62.5  | 61.5 | 174.3 | 175.2 | 175.5 | 175.8 | 176.8 | 177.5 | 177.7 | 177.0 | 177.4 | 179.4 | 181.4 | 181.4 |     |     |
| 1700 | 63.0  | 62.0 | 176.3 | 177.2 | 177.5 | 177.8 | 178.8 | 179.5 | 179.7 | 179.0 | 179.4 | 181.4 | 183.4 | 183.4 |     |     |
| 1725 | 63.5  | 62.5 | 178.3 | 179.2 | 179.5 | 179.8 | 180.8 | 181.5 | 181.7 | 181.0 | 181.4 | 183.4 | 185.4 | 185.4 |     |     |
| 1750 | 64.0  | 63.0 | 180.3 | 181.2 | 181.5 | 181.8 | 182.8 | 183.5 | 183.7 | 183.0 | 183.4 | 185.4 | 187.4 | 187.4 |     |     |
| 1775 | 64.5  | 63.5 | 182.3 | 183.2 | 183.5 | 183.8 | 184.8 | 185.5 | 185.7 | 185.0 | 185.4 | 187.4 | 189.4 | 189.4 |     |     |
| 1800 | 65.0  | 64.0 | 184.3 | 185.2 | 185.5 | 185.8 | 186.8 | 187.5 | 187.7 | 187.0 | 187.4 | 189.4 | 191.4 | 191.4 |     |     |
| 1825 | 65.5  | 64.5 | 186.3 | 187.2 | 187.5 | 187.8 | 188.8 | 189.5 | 189.7 | 189.0 | 189.4 | 191.4 | 193.4 | 193.4 |     |     |
| 1850 | 66.0  | 65.0 | 188.3 | 189.2 | 189.5 | 189.8 | 190.8 | 191.5 | 191.7 | 191.0 | 191.4 | 193.4 | 195.4 | 195.4 |     |     |
| 1875 | 66.5  | 65.5 | 190.3 | 191.2 | 191.5 | 191.8 | 192.8 | 193.5 | 193.7 | 193.0 | 193.4 | 195.4 | 197.4 | 197.4 |     |     |
| 1900 | 67.0  | 66.0 | 192.3 | 193.2 | 193.5 | 193.8 | 194.8 | 195.5 | 195.7 | 195.0 | 195.4 | 197.4 | 199.4 | 199.4 |     |     |
| 1925 | 67.5  | 66.5 | 194.3 | 195.2 | 195.5 | 195.8 | 196.8 | 197.5 | 197.7 | 197.0 | 197.4 | 199.4 | 201.4 | 201.4 |     |     |
| 1950 | 68.0  | 67.0 | 196.3 | 197.2 | 197.5 | 197.8 | 198.8 | 199.5 | 199.7 | 199.0 | 199.4 | 201.4 | 203.4 | 203.4 |     |     |
| 1975 | 68.5  | 67.5 | 198.3 | 199.2 | 199.5 | 199.8 |       |       |       |       |       |       |       |       |     |     |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (5% DEG. F, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 143    | 150    | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PWL   |       |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|---|---|---|---|---|---|---|-------|-------|
| FREQ:               | (0.72) | (1.09) | (1.24) | (1.51) | (1.90) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0     |       |
| 50                  |        |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |   |   |       |       |
| 55                  |        |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |   |   |       |       |
| RADIAL 17, FY.      | 100    | 87.9   | 89.2   | 72.0   | 74.0   | 75.0   | 79.9   | 71.7   | 67.2   | 67.2   | 72.5   | 72.7 |   |   |   |   |   |   |   | 200.5 |       |
| VEHICLE R459        | 120    | 72.2   | 74.0   | 76.0   | 78.0   | 79.5   | 90.0   | 70.0   | 67.0   | 69.0   | 74.2   | 73.0 |   |   |   |   |   |   |   |       | 210.7 |
| NOISE 7982          | 180    | 83.2   | 84.5   | 84.5   | 85.0   | 85.3   | 89.0   | 87.5   | 88.0   | 70.5   | 72.0   | 74.0 |   |   |   |   |   |   |   |       | 204.0 |
| LOG SCHEMESTADY     | 200    | 82.7   | 83.0   | 84.1   | 85.1   | 86.9   | 70.6   | 69.3   | 70.0   | 71.9   | 74.9   | 75.5 |   |   |   |   |   |   |   |       | 204.2 |
| PAGE 32-30-75       | 270    | 80.8   | 80.0   | 86.0   | 85.0   | 89.1   | 71.1   | 71.1   | 71.3   | 72.4   | 73.9   | 74.2 |   |   |   |   |   |   |   |       | 204.2 |
| BLD 72-7            | 315    | 86.5   | 87.6   | 88.3   | 88.1   | 89.1   | 72.1   | 70.3   | 70.6   | 71.4   | 72.7   | 73.3 |   |   |   |   |   |   |   |       | 204.2 |
| TADE 800032         | 400    | 85.4   | 86.2   | 86.3   | 86.5   | 87.8   | 70.5   | 70.8   | 70.5   | 71.0   | 73.1   | 73.2 |   |   |   |   |   |   |   |       | 204.2 |
| SAD 3010 NS         | 500    | 83.0   | 83.4   | 85.9   | 86.4   | 87.7   | 70.4   | 70.9   | 71.4   | 72.7   | 73.8   | 74.2 |   |   |   |   |   |   |   |       | 204.0 |
| 01407, N(X2)        | 650    | 85.5   | 86.3   | 87.3   | 88.0   | 89.1   | 70.3   | 70.5   | 70.9   | 71.4   | 73.2   | 73.0 |   |   |   |   |   |   |   |       | 205.0 |
| TAN 30 DEG F        | 800    | 84.0   | 85.0   | 86.1   | 87.4   | 88.1   | 68.6   | 71.0   | 72.7   | 73.4   | 74.2   | 74.5 |   |   |   |   |   |   |   |       | 204.5 |
| (270, DEG K)        | 1000   | 82.2   | 83.3   | 85.1   | 86.3   | 87.8   | 67.0   | 70.3   | 72.9   | 74.6   | 75.2   | 76.3 |   |   |   |   |   |   |   |       | 204.0 |
| TNET 33, DEG F      | 1250   | 82.0   | 84.3   | 85.4   | 87.2   | 87.6   | 66.6   | 73.3   | 76.2   | 76.7   | 78.0   | 78.3 |   |   |   |   |   |   |   |       | 207.0 |
| (274, DEG K)        | 1600   | 81.2   | 82.2   | 83.0   | 84.3   | 85.3   | 66.2   | 69.2   | 71.1   | 71.1   | 73.2   | 73.1 |   |   |   |   |   |   |   |       | 202.3 |
| MAST 3.53 GM/M3     | 2000   | 80.5   | 81.0   | 82.4   | 84.2   | 84.9   | 62.6   | 66.8   | 69.2   | 68.9   | 70.3   | 67.5 |   |   |   |   |   |   |   |       | 200.1 |
| (00333, KG/M3)      | 2500   | 80.2   | 82.6   | 83.0   | 85.4   | 86.0   | 64.0   | 69.2   | 69.1   | 70.2   | 71.3   | 70.7 |   |   |   |   |   |   |   |       | 201.5 |
| MFA 3436, RPH       | 3,500  | 80.8   | 81.1   | 82.1   | 83.7   | 85.9   | 63.5   | 69.5   | 69.0   | 71.3   | 71.9   | 66.2 |   |   |   |   |   |   |   |       | 0.16  |
| (361, RAD/SEC)      | 4000   | 80.6   | 81.2   | 82.9   | 84.0   | 86.6   | 64.0   | 69.0   | 72.0   | 73.5   | 73.0   | 69.0 |   |   |   |   |   |   |   |       | 201.7 |
| MFA 5590, RPH       | 5000   | 80.9   | 80.9   | 82.1   | 83.5   | 86.4   | 63.5   | 72.5   | 74.7   | 79.3   | 76.0   | 68.5 |   |   |   |   |   |   |   |       | 202.1 |
| (381, RAD/SEC)      | 6300   | 80.7   | 83.0   | 84.5   | 85.5   | 88.1   | 65.0   | 74.2   | 77.2   | 80.2   | 78.5   | 70.2 |   |   |   |   |   |   |   |       | 201.2 |
| MFA 8033, RPH       | 8000   | 82.5   | 84.5   | 86.6   | 88.5   | 91.5   | 69.1   | 77.8   | 80.6   | 81.8   | 81.0   | 73.4 |   |   |   |   |   |   |   |       | 111.0 |
| (926, RAD/SEC)      | 10000  | 78.0   | 72.3   | 76.2   | 79.1   | 83.3   | 80.0   | 87.4   | 88.3   | 90.8   | 88.2   | 82.5 |   |   |   |   |   |   |   |       | 117.0 |
| NO. OF BLADES: 3    | 12500  | 78.4   | 79.2   | 79.5   | 85.1   | 89.3   | 82.8   | 90.6   | 90.2   | 90.2   | 87.0   | 80.6 |   |   |   |   |   |   |   |       | 121.9 |
| RAN TIP SPEED       | 20000  | 85.2   | 87.7   | 70.4   | 74.0   | 78.3   | 74.0   | 84.3   | 86.3   | 86.5   | 82.5   | 74.3 |   |   |   |   |   |   |   |       | 210.5 |
| 475, FT/SEC         | 20000  | 83.0   | 85.7   | 88.0   | 71.2   | 74.5   | 72.2   | 81.7   | 84.2   | 87.3   | 82.9   | 73.2 |   |   |   |   |   |   |   |       | 210.0 |
|                     | 25000  | 80.5   | 82.4   | 84.0   | 86.7   | 91.3   | 87.4   | 90.3   | 91.2   | 83.2   | 86.5   | 71.5 |   |   |   |   |   |   |   |       | 213.2 |
|                     | 31500  | 80.0   | 81.3   | 82.7   | 87.0   | 90.1   | 86.4   | 91.7   | 90.9   | 81.6   | 80.1   | 64.5 |   |   |   |   |   |   |   |       | 212.7 |
|                     | 40000  | 78.0   | 80.1   | 89.0   | 84.0   | 87.0   | 89.6   | 95.1   | 92.0   | 78.9   | 76.0   | 64.4 |   |   |   |   |   |   |   |       | 211.4 |
|                     | 50000  | 85.9   | 86.9   | 85.9   | 87.4   | 89.9   | 80.9   | 88.0   | 89.0   | 70.2   | 68.0   | 57.7 |   |   |   |   |   |   |   |       | 202.4 |
|                     | 63000  | 81.2   | 82.5   | 80.6   | 80.1   | 81.6   | 81.4   | 80.6   | 80.3   | 87.3   | 80.4   | 80.6 |   |   |   |   |   |   |   |       | 201.6 |
|                     | 80000  | 86.5   | 86.0   | 84.0   | 83.5   | 83.2   | 80.4   | 84.6   | 85.9   | 82.0   | 83.1   | 80.5 |   |   |   |   |   |   |   |       | 201.5 |
| OVERALL MEASUREMENT |        |        |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |   |   |       |       |
| SMALL CALCULATION   | 80.2   | 81.0   | 84.0   | 80.1   | 81.0   | 80.0   | 84.2   | 89.2   | 86.1   | 85.9   | 80.7   |      |   |   |   |   |   |   |   |       | 200.7 |
| PMDD                | 80.2   | 80.7   | 82.2   | 84.1   | 86.0   | 89.0   | 100.2  | 101.5  | 102.1  | 102.8  |        |      |   |   |   |   |   |   |   |       |       |

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200) PROC: DATE = MONTH\_04 DAY\_08 HR\_04  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180  | 190  | 200 |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|-----|
| SIDELINE 200 FT     | 44.3 | 46.5 | 49.9 | 52.3 | 53.9 | 53.8 | 49.6 | 44.2 | 42.9 | 45.6 | 43.8 |     |
| VEHICLE ROSS        | 47.4 | 44.8 | 47.6 | 46.5 | 48.4 | 48.3 | 45.8 | 46.7 | 45.4 | 47.6 | 45.4 |     |
| SCAF16 7502         | 39.3 | 31.6 | 42.3 | 43.2 | 43.5 | 42.1 | 45.1 | 45.5 | 45.9 | 46.6 | 43.5 |     |
| LCD SCENECTADY      | 38.8 | 40.6 | 41.8 | 43.2 | 45.1 | 48.6 | 46.9 | 47.3 | 47.1 | 48.6 | 44.9 |     |
| DATE 81030-73       | 41.9 | 33.7 | 48.2 | 46.6 | 47.2 | 49.6 | 48.6 | 47.9 | 47.9 | 46.8 | 43.7 |     |
| RUB 7107            | 42.3 | 44.4 | 45.9 | 46.0 | 46.1 | 49.0 | 47.7 | 47.1 | 46.4 | 45.4 | 42.2 |     |
| TABE 800032         | 41.1 | 42.9 | 43.9 | 45.3 | 45.7 | 48.3 | 47.3 | 46.9 | 45.9 | 45.7 | 41.8 |     |
| GAB 30.0 MB         | 38.4 | 42.8 | 43.2 | 44.2 | 45.5 | 47.1 | 48.1 | 47.7 | 47.5 | 45.7 | 41.8 |     |
| 801407, N/421       | 41.8 | 42.8 | 44.5 | 46.2 | 47.8 | 47.8 | 50.6 | 50.3 | 49.8 | 47.4 | 41.2 |     |
| YAND 30, DEG F      | 40.1 | 42.8 | 43.2 | 44.7 | 45.8 | 48.1 | 48.8 | 48.7 | 47.9 | 46.3 | 39.1 |     |
| (276, DEG K)        | 37.4 | 39.5 | 42.0 | 43.7 | 45.3 | 49.2 | 49.1 | 48.7 | 48.9 | 47.3 | 38.0 |     |
| 33, DEG F           | 37.8 | 40.4 | 42.2 | 44.4 | 45.8 | 43.8 | 50.3 | 51.9 | 50.8 | 56.4 | 48.8 |     |
| (274, DEG K)        | 36.8 | 38.1 | 39.8 | 41.4 | 42.7 | 44.3 | 45.7 | 46.6 | 45.8 | 44.3 | 33.9 |     |
| WAST 3.53 CM/M3     | 34.9 | 37.3 | 38.8 | 41.1 | 41.9 | 39.4 | 43.1 | 42.5 | 42.3 | 41.8 | 33.7 |     |
| 4.00333, KB/M3      | 34.9 | 38.1 | 40.1 | 42.1 | 43.7 | 48.7 | 45.3 | 44.2 | 43.6 | 41.9 | 32.3 |     |
| RPA 34.6, RPM       | 33.8 | 36.3 | 38.1 | 40.1 | 42.5 | 39.9 | 45.3 | 43.7 | 44.3 | 42.6 | 41.3 |     |
| ( 567, RPM/SEC)     | 33.1 | 36.4 | 38.4 | 40.8 | 42.6 | 48.0 | 45.1 | 46.2 | 46.8 | 48.3 | 43.0 |     |
| RPK 5530, RPM       | 33.8 | 35.4 | 37.4 | 39.3 | 42.4 | 39.3 | 47.6 | 48.7 | 47.4 | 44.9 | 31.8 |     |
| ( 581, RPM/SEC)     | 33.1 | 36.6 | 39.0 | 40.3 | 43.4 | 48.8 | 48.6 | 55.3 | 51.2 | 46.3 | 32.4 |     |
| GPD 8823, RPM       | 33.4 | 36.9 | 40.8 | 42.4 | 45.5 | 43.9 | 51.8 | 52.5 | 51.4 | 48.8 | 39.1 |     |
| ( 924, RPM/SEC)     | 38.9 | 42.9 | 48.8 | 51.6 | 58.8 | 52.6 | 59.8 | 58.6 | 57.5 | 51.8 | 47.3 |     |
| UC OF BLADES 19     | 38.9 | 43.4 | 49.0 | 53.3 | 59.8 | 53.0 | 59.8 | 57.7 | 54.6 | 46.2 | 29.7 |     |
| PAN TIP SPEED 16000 | 38.8 | 31.9 | 38.1 | 41.2 | 47.2 | 44.1 | 49.6 | 49.4 | 45.8 | 39.8 | 14.8 |     |
| 43, FT/SEC          | 38.4 | 24.2 | 28.8 | 33.8 | 38.8 | 38.5 | 41.9 | 41.6 | 40.8 | 27.1 | 8.5  |     |
| 25000               | 7.1  | 13.2 | 17.5 | 21.6 | 26.7 | 28.2 | 31.2 | 35.8 | 26.4 | 12.8 |      |     |
| 31000               |      | 8.7  | 5.5  | 11.9 | 13.6 | 13.8 | 19.9 | 17.4 | 10.8 |      |      |     |
| 40000               |      |      |      |      |      |      | 8.1  |      |      |      |      |     |
| 50000               |      |      |      |      |      |      |      |      |      |      |      |     |
| 63000               |      |      |      |      |      |      |      |      |      |      |      |     |
| 80000               |      |      |      |      |      |      |      |      |      |      |      |     |
| OVERALL SA, DB      | 34.2 | 36.6 | 39.5 | 42.1 | 44.6 | 42.1 | 45.2 | 44.4 | 43.2 | 41.1 | 34.2 |     |
| 7500                | 38.9 | 43.8 | 46.1 | 48.8 | 51.6 | 49.8 | 54.4 | 54.1 | 53.6 | 51.1 | 48.7 |     |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

NOJEL SOJND PRESSURE LEVELS (5% DEG. F, 7% PERCENT REL. HUM. DAY)  
 PROC. DATE - MONTH 2 DAY 25 HR 19:8  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    |       | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 143.   | 156.   | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|-----|
|                    | FREQ. | (0.92) | (1.38) | (1.24) | (1.41) | (1.58) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0. | (0. | (0. | (0. | (0. | (0. | PUL |
|                    | 50    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |
|                    | 63    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |
| RADIAL 17. FT.     | 83    | 68.1   | 71.7   | 74.2   | 75.5   | 75.0   | 74.7   | 71.0   | 67.2   | 67.7   | 71.3   | 74.4   |     |     |     |     |     |     |     |
| ( 5. 4)            | 170   | 74.4   | 76.7   | 80.8   | 82.5   | 87.3   | 90.5   | 77.5   | 71.0   | 70.0   | 74.4   | 76.9   |     |     |     |     |     |     |     |
| VEHICLE 4-55       | 125   | 67.0   | 69.3   | 71.6   | 69.1   | 71.3   | 72.3   | 67.3   | 72.1   | 71.3   | 72.4   | 75.5   |     |     |     |     |     |     |     |
| CONFIG 73-3        | 160   | 63.9   | 65.5   | 65.5   | 66.0   | 66.9   | 70.4   | 67.5   | 69.0   | 71.0   | 72.4   | 74.2   |     |     |     |     |     |     |     |
| LOC SCHEMECTADY    | 200   | 63.2   | 63.0   | 64.6   | 65.6   | 66.9   | 70.4   | 69.8   | 71.6   | 72.6   | 74.4   | 76.3   |     |     |     |     |     |     |     |
| DATE 11-20-75      | 250   | 66.5   | 67.6   | 69.1   | 68.6   | 69.1   | 70.9   | 71.3   | 72.1   | 72.6   | 73.4   | 74.3   |     |     |     |     |     |     |     |
| R/N HLX 60: PT#1   | 315   | 67.0   | 68.3   | 68.2   | 68.4   | 69.1   | 70.6   | 70.1   | 70.6   | 71.6   | 72.2   | 73.0   |     |     |     |     |     |     |     |
| TAPP 31            | 430   | 65.4   | 66.7   | 67.3   | 67.8   | 69.9   | 70.0   | 70.5   | 70.8   | 71.8   | 72.1   | 73.2   |     |     |     |     |     |     |     |
| RAF 29.7 H3        | 530   | 64.1   | 65.6   | 65.5   | 65.9   | 66.2   | 70.7   | 71.1   | 71.9   | 72.9   | 73.3   | 73.3   |     |     |     |     |     |     |     |
| (C)197. 02/12)     | 630   | 65.7   | 66.8   | 68.6   | 69.6   | 71.3   | 70.6   | 74.3   | 74.6   | 74.9   | 74.9   | 73.3   |     |     |     |     |     |     |     |
| TAMP 48. DEG F     | 800   | 63.3   | 67.3   | 67.6   | 69.4   | 70.4   | 70.9   | 72.6   | 73.9   | 74.7   | 74.5   | 71.0   |     |     |     |     |     |     |     |
| (282. DEG K)       | 1000  | 63.7   | 65.8   | 66.6   | 67.3   | 69.1   | 69.3   | 73.0   | 74.9   | 76.4   | 76.4   | 71.5   |     |     |     |     |     |     |     |
| TNET 43. DEG F     | 1250  | 65.5   | 66.8   | 67.4   | 69.7   | 70.6   | 70.1   | 75.3   | 78.7   | 79.7   | 76.9   | 75.0   |     |     |     |     |     |     |     |
| (279. DEG K)       | 1600  | 62.4   | 63.7   | 65.0   | 66.3   | 63.3   | 60.5   | 71.9   | 73.5   | 75.1   | 76.4   | 70.6   |     |     |     |     |     |     |     |
| MACT 5.83 GM/M3    | 2000  | 63.3   | 62.1   | 63.1   | 63.6   | 65.6   | 60.5   | 67.0   | 66.4   | 66.4   | 67.3   | 66.2   |     |     |     |     |     |     |     |
| (.2583 KG/M3)      | 2500  | 61.0   | 62.8   | 63.2   | 65.1   | 67.5   | 60.5   | 68.4   | 68.9   | 66.7   | 68.5   | 65.9   |     |     |     |     |     |     |     |
| RFA 247. RPM       | 3150  | 63.3   | 62.3   | 63.5   | 64.4   | 66.8   | 60.5   | 69.9   | 69.4   | 72.5   | 72.6   | 67.4   |     |     |     |     |     |     |     |
| ( 574. RAD/SEC)    | 4000  | 62.3   | 64.6   | 65.5   | 67.7   | 69.8   | 60.7   | 74.4   | 76.1   | 81.0   | 81.1   | 72.9   |     |     |     |     |     |     |     |
| RPM 5946. RPM      | 5900  | 63.8   | 65.3   | 67.0   | 68.7   | 71.8   | 60.9   | 77.9   | 79.9   | 82.0   | 81.1   | 73.1   |     |     |     |     |     |     |     |
| ( 541. RAD/SEC)    | 6300  | 65.9   | 67.4   | 69.3   | 70.6   | 74.3   | 70.4   | 86.6   | 82.0   | 85.0   | 82.2   | 75.8   |     |     |     |     |     |     |     |
| RFD 823. RPM       | 8700  | 65.2   | 66.9   | 69.5   | 72.4   | 75.7   | 70.5   | 84.2   | 83.6   | 85.1   | 82.3   | 74.4   |     |     |     |     |     |     |     |
| ( 924. RAD/SEC)    | 10000 | 65.3   | 68.7   | 72.6   | 78.0   | 79.5   | 70.1   | 81.9   | 82.5   | 84.4   | 82.4   | 73.0   |     |     |     |     |     |     |     |
| NO. OF BLADES 13   | 12500 | 75.3   | 78.7   | 85.0   | 91.8   | 92.8   | 70.1   | 92.4   | 90.0   | 88.5   | 84.5   | 77.9   |     |     |     |     |     |     |     |
| FAN TIP SPEED      | 16000 | 65.9   | 69.2   | 73.0   | 78.1   | 81.1   | 70.1   | 84.9   | 88.1   | 86.1   | 81.1   | 73.2   |     |     |     |     |     |     |     |
| 479. FT/SEC        | 20000 | 63.6   | 65.3   | 67.6   | 69.8   | 73.4   | 60.8   | 79.9   | 83.3   | 85.9   | 81.0   | 71.8   |     |     |     |     |     |     |     |
|                    | 25000 | 64.6   | 69.3   | 65.2   | 69.3   | 72.7   | 60.5   | 77.0   | 80.8   | 83.3   | 77.1   | 78.8   |     |     |     |     |     |     |     |
|                    | 31500 | 64.1   | 63.8   | 64.2   | 66.6   | 69.6   | 60.1   | 75.9   | 79.4   | 80.8   | 77.3   | 67.9   |     |     |     |     |     |     |     |
|                    | 40000 | 63.2   | 64.5   | 63.7   | 65.3   | 67.9   | 60.1   | 74.1   | 76.9   | 78.6   | 75.4   | 69.3   |     |     |     |     |     |     |     |
|                    | 50000 | 67.2   | 66.9   | 65.4   | 64.3   | 65.6   | 60.9   | 71.8   | 71.7   | 73.6   | 71.3   | 64.1   |     |     |     |     |     |     |     |
|                    | 63000 | 73.9   | 74.6   | 72.2   | 70.8   | 71.0   | 70.2   | 73.9   | 73.8   | 73.5   | 72.6   | 69.3   |     |     |     |     |     |     |     |
|                    | 80000 | 81.8   | 86.3   | 79.0   | 78.0   | 78.0   | 70.8   | 79.7   | 77.1   | 76.9   | 76.8   | 79.8   |     |     |     |     |     |     |     |
| OVERALL MEASURED   |       |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |
| OVERALL CALCULATED |       | 85.1   | 88.4   | 88.6   | 92.2   | 92.1   | 90.5   | 95.3   | 95.2   | 95.8   | 94.9   | 88.2   |     |     |     |     |     |     |     |
| PMB                |       | 89.4   | 91.2   | 93.8   | 94.8   | 96.8   | 90.8   | 101.1  | 102.8  | 104.5  | 103.5  | 98.1   |     |     |     |     |     |     |     |

|                    | FREQ   | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156. | 0. | 0. | 0. | 0. | 0.  | 0. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|-----|----|
|                    | (0.92) | (1.03) | (1.24) | (1.41) | (1.58) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 0. | 0. | 0. | 0. | 0.) |    |
| SIDELINE 200. FT.  | 50     | 44.5   | 43.0   | 52.2   | 53.8   | 53.5   | 52.7   | 48.8   | 44.2   | 43.4   | 44.9   | 44.5 |    |    |    |    |     |    |
| (60.96 ft)         | 100    | 51.7   | 54.0   | 59.7   | 60.8   | 61.4   | 58.9   | 55.3   | 48.0   | 45.6   | 47.8   | 46.4 |    |    |    |    |     |    |
| VEHICLE            | 125    | 43.2   | 45.5   | 49.4   | 46.3   | 47.7   | 53.5   | 45.5   | 46.9   | 46.8   | 45.7   | 45.3 |    |    |    |    |     |    |
| CONFIG 75=3        | 160    | 43.0   | 42.6   | 43.3   | 44.2   | 44.8   | 52.9   | 45.1   | 45.8   | 46.4   | 45.5   | 43.8 |    |    |    |    |     |    |
| LCC SCHE:ECTADY    | 250    | 39.3   | 41.8   | 42.3   | 43.7   | 45.1   | 51.4   | 47.4   | 45.3   | 47.9   | 47.5   | 45.6 |    |    |    |    |     |    |
| DATE 51-29-75      | 250    | 42.4   | 44.5   | 46.7   | 46.6   | 47.2   | 51.8   | 48.8   | 48.7   | 47.8   | 46.3   | 43.7 |    |    |    |    |     |    |
| RUN RUN 60. PT=1   | 315    | 42.8   | 45.1   | 46.4   | 46.3   | 47.1   | 51.5   | 47.9   | 47.1   | 46.7   | 44.9   | 42.7 |    |    |    |    |     |    |
| TAPE 31            | 400    | 41.1   | 43.4   | 44.7   | 45.6   | 46.7   | 51.5   | 47.8   | 47.1   | 46.7   | 44.7   | 41.9 |    |    |    |    |     |    |
| BAR 29.7 HG        | 500    | 39.7   | 42.2   | 43.2   | 44.7   | 46.0   | 51.4   | 49.3   | 48.2   | 47.7   | 45.7   | 41.8 |    |    |    |    |     |    |
| (00157. 1/42)      | 630    | 41.2   | 43.3   | 45.8   | 47.2   | 49.1   | 51.2   | 51.4   | 50.8   | 49.5   | 47.2   | 41.4 |    |    |    |    |     |    |
| TAMP 48. DEG F     | 800    | 41.6   | 43.7   | 44.7   | 46.9   | 48.3   | 48.3   | 49.5   | 49.8   | 49.1   | 46.5   | 39.6 |    |    |    |    |     |    |
| (282. DEG K)       | 1200   | 38.9   | 42.0   | 43.5   | 44.7   | 46.6   | 48.6   | 49.8   | 50.7   | 50.7   | 44.2   | 39.0 |    |    |    |    |     |    |
| THET 43. DEG F     | 1250   | 41.5   | 42.9   | 44.2   | 46.9   | 48.8   | 48.3   | 52.0   | 54.4   | 53.8   | 52.4   | 42.2 |    |    |    |    |     |    |
| (279. DEG K)       | 1600   | 37.2   | 39.6   | 41.6   | 43.4   | 45.2   | 48.5   | 48.4   | 49.0   | 49.0   | 47.7   | 37.4 |    |    |    |    |     |    |
| MACT 5.83 34/43    | 2000   | 34.8   | 37.8   | 39.5   | 41.5   | 42.6   | 44.4   | 43.3   | 41.7   | 40.1   | 38.2   | 32.5 |    |    |    |    |     |    |
| (.06583 K3/M3)     | 2500   | 35.3   | 38.3   | 40.0   | 41.8   | 44.4   | 48.1   | 44.5   | 41.9   | 40.8   | 37.2   | 31.7 |    |    |    |    |     |    |
| NFA 5487. RPM      | 3150   | 34.2   | 37.5   | 39.5   | 43.8   | 45.4   | 48.9   | 45.8   | 44.1   | 45.5   | 42.7   | 32.5 |    |    |    |    |     |    |
| ( 574. RAD/SEC)    | 4000   | 35.7   | 39.3   | 41.1   | 43.7   | 46.0   | 48.7   | 49.8   | 53.4   | 53.4   | 51.5   | 36.9 |    |    |    |    |     |    |
| RPM 5546. RPM      | 5000   | 36.9   | 39.8   | 42.3   | 44.5   | 47.8   | 48.7   | 53.5   | 51.9   | 54.1   | 51.1   | 36.5 |    |    |    |    |     |    |
| ( 581. RAD/SEC)    | 6300   | 37.7   | 41.0   | 43.9   | 45.6   | 49.5   | 48.5   | 55.0   | 55.8   | 56.1   | 49.9   | 36.6 |    |    |    |    |     |    |
| RPM 8823. RPM      | 8000   | 38.1   | 39.3   | 42.9   | 46.4   | 49.9   | 48.4   | 54.4   | 59.4   | 54.6   | 47.8   | 33.1 |    |    |    |    |     |    |
| ( 924. RAD/SEC)    | 10000  | 34.2   | 39.3   | 44.4   | 50.5   | 52.1   | 48.5   | 53.4   | 52.3   | 51.9   | 43.5   | 27.8 |    |    |    |    |     |    |
| NO. OF BLADES 15   | 12500  | 41.4   | 46.9   | 54.5   | 62.1   | 61.3   | 51.3   | 61.6   | 58.4   | 52.9   | 45.7   | 27.0 |    |    |    |    |     |    |
| FAN TIP SPEED      | 16300  | 27.4   | 33.2   | 38.8   | 44.7   | 48.8   | 48.8   | 58.2   | 49.9   | 48.4   | 34.8   | 12.8 |    |    |    |    |     |    |
| 470. FT/SEC        | 25000  | 19.8   | 23.8   | 28.2   | 31.6   | 35.5   | 38.4   | 48.1   | 46.7   | 38.6   | 29.2   |      |    |    |    |    |     |    |
|                    | 31500  | 11.3   | 16.1   | 18.6   | 24.2   | 29.0   | 28.2   | 38.8   | 33.1   | 26.5   | 12.2   |      |    |    |    |    |     |    |
|                    | 40000  |        | 3.2    | 7.1    | 11.4   | 15.1   | 18.7   | 18.1   | 16.9   | 10.1   |        |      |    |    |    |    |     |    |
|                    | 50000  |        |        |        |        |        |        | 0.8    |        |        |        |      |    |    |    |    |     |    |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |    |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |     |    |
| OVERALL CALCULATED |        | 55.3   | 58.4   | 62.3   | 65.8   | 66.7   | 65.5   | 66.1   | 65.8   | 64.2   | 68.8   | 65.0 |    |    |    |    |     |    |
| PNDB               |        | 62.4   | 65.6   | 68.1   | 70.1   | 72.7   | 71.4   | 76.1   | 76.4   | 76.4   | 73.5   | 62.9 |    |    |    |    |     |    |



|                    | FREQ. | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
|                    |       | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.) | (0.) | (0.) | (0.) | (0.) | (0.) |
| SIDELINE 200. FT.  | 53    | 34.8   | 41.3   | 43.4   | 44.1   | 44.0   | 45.5   | 45.8   | 45.9   | 47.2   | 48.1   | 48.0   |      |      |      |      |      |      |
| ( 63.95 K)         | 63    | 49.7   | 53.2   | 51.2   | 49.3   | 43.2   | 32.4   | 48.5   | 46.5   | 48.4   | 49.6   | 49.4   |      |      |      |      |      |      |
| VEHICLE 3=55       | 125   | 45.2   | 48.5   | 50.9   | 49.3   | 51.7   | 52.5   | 48.5   | 49.4   | 53.3   | 50.0   | 49.5   |      |      |      |      |      |      |
| CONFIG 73=3        | 160   | 44.5   | 46.6   | 47.2   | 47.9   | 43.5   | 54.1   | 49.1   | 48.8   | 50.9   | 50.3   | 48.8   |      |      |      |      |      |      |
| LOC SCHE:ECT43Y    | 250   | 43.8   | 45.1   | 46.5   | 47.7   | 49.3   | 50.1   | 51.4   | 51.5   | 52.4   | 52.2   | 50.1   |      |      |      |      |      |      |
| DATE 1-29-75       | 250   | 48.4   | 43.2   | 49.9   | 51.3   | 52.0   | 50.5   | 52.6   | 51.2   | 52.0   | 51.8   | 48.4   |      |      |      |      |      |      |
| RUN RLV 65. PT=2   | 315   | 47.3   | 49.4   | 50.1   | 51.0   | 51.4   | 51.2   | 51.7   | 50.6   | 50.7   | 49.9   | 47.5   |      |      |      |      |      |      |
| TAPE 31            | 400   | 45.1   | 46.9   | 48.4   | 49.8   | 51.5   | 50.5   | 50.8   | 50.4   | 51.2   | 49.7   | 46.6   |      |      |      |      |      |      |
| BAR 26.7 HG        | 500   | 43.7   | 45.7   | 47.2   | 48.7   | 49.4   | 51.6   | 51.8   | 51.2   | 51.7   | 49.7   | 46.0   |      |      |      |      |      |      |
| (C0157. N/42)      | 630   | 45.5   | 47.0   | 49.0   | 51.0   | 52.6   | 51.4   | 54.9   | 53.3   | 53.2   | 50.7   | 45.4   |      |      |      |      |      |      |
| TAMB 47. DEG F     | 800   | 45.6   | 47.2   | 49.5   | 50.4   | 51.3   | 50.9   | 53.0   | 52.2   | 52.4   | 49.5   | 43.6   |      |      |      |      |      |      |
| (281. DEG K)       | 1000  | 43.9   | 46.8   | 48.0   | 49.2   | 50.6   | 49.1   | 53.1   | 52.7   | 53.7   | 51.5   | 43.3   |      |      |      |      |      |      |
| TWET 43. DEG F     | 1250  | 43.0   | 45.4   | 46.5   | 49.4   | 49.8   | 49.1   | 52.5   | 51.9   | 52.8   | 50.6   | 42.2   |      |      |      |      |      |      |
| (279. DEG K)       | 1600  | 42.7   | 44.6   | 46.9   | 51.4   | 51.7   | 49.5   | 52.9   | 53.0   | 54.2   | 52.4   | 42.1   |      |      |      |      |      |      |
| WACT 6.13 GM/43    | 2000  | 41.1   | 42.2   | 43.5   | 48.5   | 48.6   | 49.9   | 47.1   | 45.4   | 49.8   | 43.2   | 38.0   |      |      |      |      |      |      |
| (.00613. KG/M3)    | 2500  | 41.8   | 42.8   | 44.3   | 49.6   | 48.2   | 49.1   | 47.5   | 44.9   | 44.5   | 41.4   | 36.5   |      |      |      |      |      |      |
| NFA 6.58. RPM      | 3150  | 40.5   | 42.2   | 43.8   | 49.1   | 48.4   | 49.4   | 50.8   | 47.4   | 51.2   | 45.7   | 37.8   |      |      |      |      |      |      |
| ( 455. RAD/SEC)    | 4000  | 39.5   | 42.0   | 43.8   | 46.4   | 49.0   | 49.7   | 51.8   | 50.1   | 53.6   | 48.3   | 37.9   |      |      |      |      |      |      |
| NFK 6332. RPM      | 5000  | 41.7   | 43.5   | 46.6   | 49.9   | 51.7   | 49.9   | 57.3   | 55.8   | 58.8   | 51.8   | 39.8   |      |      |      |      |      |      |
| ( 643. RAD/SEC)    | 6300  | 42.2   | 44.7   | 47.6   | 50.6   | 53.7   | 49.8   | 58.2   | 58.9   | 59.4   | 51.6   | 39.3   |      |      |      |      |      |      |
| NFD 8823. RPM      | 8000  | 41.3   | 44.3   | 47.2   | 51.1   | 54.4   | 49.4   | 59.4   | 59.1   | 57.9   | 49.8   | 36.6   |      |      |      |      |      |      |
| ( 924. RAD/SEC)    | 10000 | 38.7   | 42.0   | 45.6   | 49.4   | 51.8   | 49.5   | 54.4   | 54.8   | 54.6   | 45.7   | 30.7   |      |      |      |      |      |      |
| NO. OF BLADES 15   | 12500 | 43.6   | 49.8   | 55.2   | 61.5   | 64.5   | 59.7   | 62.8   | 61.6   | 57.3   | 47.4   | 31.7   |      |      |      |      |      |      |
| FAN TIP SPEED      | 15000 | 34.6   | 39.9   | 46.0   | 52.4   | 59.2   | 49.5   | 55.4   | 52.7   | 49.4   | 36.5   | 17.0   |      |      |      |      |      |      |
| 346. FT/SEC        | 21000 | 26.4   | 30.8   | 34.1   | 38.2   | 41.2   | 39.9   | 45.9   | 44.9   | 43.8   | 28.2   | 3.7    |      |      |      |      |      |      |
|                    | 25000 | 19.4   | 22.2   | 25.7   | 28.1   | 32.2   | 29.7   | 36.2   | 35.3   | 31.9   | 15.6   |        |      |      |      |      |      |      |
|                    | 31500 | 6.7    | 11.6   | 14.5   | 17.3   | 21.4   | 19.1   | 23.8   | 23.8   | 14.9   |        |        |      |      |      |      |      |      |
|                    | 40000 |        |        |        | 2.2    | 5.4    | 1.2    | 6.1    | 0.0    |        |        |        |      |      |      |      |      |      |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |
| OVERALL CALCULATED |       | 57.8   | 60.4   | 62.2   | 65.6   | 67.6   | 69.6   | 69.3   | 67.8   | 67.8   | 63.4   | 59.0   |      |      |      |      |      |      |
| PNDG               |       | 66.9   | 69.3   | 71.4   | 74.6   | 76.1   | 77.7   | 79.3   | 79.8   | 80.8   | 74.8   | 65.9   |      |      |      |      |      |      |



|                     | FREQ  | (0.92) | (1.08) | (1.24) | (1.41) | (1.59) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) |  |
|---------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|--|
|                     | 53    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |     |  |
|                     | 63    |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |     |  |
| RACIAL 17. FT.      | 80    | 63.1   | 64.4   | 65.7   | 66.2   | 66.7   | 70.2   | 70.2   | 72.0   | 74.2   | 78.1   | 82.4   |     |     |     |     |     |     |     |     |  |
| ( 5. 4)             | 100   | 57.4   | 71.7   | 72.3   | 71.3   | 71.5   | 72.3   | 71.5   | 71.8   | 75.8   | 79.6   | 83.5   |     |     |     |     |     |     |     |     |  |
| VEHICLE 3=55        | 125   | 74.2   | 79.5   | 79.8   | 77.1   | 75.3   | 77.1   | 74.1   | 77.1   | 78.8   | 83.2   | 83.8   |     |     |     |     |     |     |     |     |  |
| CONFIG 75=3         | 160   | 71.2   | 72.2   | 72.3   | 72.8   | 72.8   | 75.3   | 75.3   | 76.3   | 78.0   | 83.4   | 83.5   |     |     |     |     |     |     |     |     |  |
| LDC SCHEMECTADY     | 200   | 75.2   | 74.6   | 71.6   | 72.1   | 74.1   | 77.1   | 76.8   | 78.4   | 80.1   | 82.2   | 84.8   |     |     |     |     |     |     |     |     |  |
| DATE 11-29-75       | 250   | 73.7   | 74.8   | 76.3   | 76.3   | 77.1   | 77.3   | 78.6   | 79.6   | 81.1   | 81.9   | 83.0   |     |     |     |     |     |     |     |     |  |
| RUN RUN 68. PTO3    | 315   | 74.8   | 75.3   | 75.8   | 76.4   | 76.6   | 76.9   | 77.6   | 78.4   | 79.6   | 81.2   | 82.3   |     |     |     |     |     |     |     |     |  |
| TAPE 31             | 400   | 73.7   | 74.0   | 74.0   | 74.8   | 75.5   | 76.5   | 77.7   | 78.3   | 79.3   | 80.6   | 82.2   |     |     |     |     |     |     |     |     |  |
| BAR 20.7 MS         | 500   | 71.6   | 72.6   | 73.2   | 73.9   | 73.4   | 74.7   | 77.9   | 78.9   | 79.9   | 81.0   | 81.3   |     |     |     |     |     |     |     |     |  |
| (00157. M/12)       | 630   | 72.7   | 73.0   | 74.8   | 76.1   | 77.8   | 78.3   | 80.8   | 80.9   | 81.1   | 81.2   | 80.8   |     |     |     |     |     |     |     |     |  |
| TAPE 47. DEG F      | 800   | 73.3   | 73.6   | 74.1   | 75.6   | 76.4   | 78.9   | 78.8   | 79.9   | 80.4   | 81.2   | 79.5   |     |     |     |     |     |     |     |     |  |
| (281. DEG K)        | 1000  | 71.5   | 72.8   | 73.3   | 74.3   | 75.4   | 78.5   | 79.5   | 81.1   | 81.9   | 82.4   | 79.2   |     |     |     |     |     |     |     |     |  |
| THET 43. DEG F      | 1250  | 75.8   | 71.6   | 72.1   | 73.9   | 74.6   | 76.8   | 78.3   | 79.4   | 80.7   | 80.8   | 78.5   |     |     |     |     |     |     |     |     |  |
| (275. DEG K)        | 1600  | 75.2   | 71.5   | 72.7   | 74.5   | 75.2   | 78.0   | 77.7   | 79.3   | 80.8   | 81.7   | 77.9   |     |     |     |     |     |     |     |     |  |
| MACT 6.13 3M/13     | 2000  | 69.3   | 73.3   | 71.6   | 73.1   | 74.1   | 76.5   | 76.0   | 75.9   | 77.7   | 78.3   | 76.0   |     |     |     |     |     |     |     |     |  |
| (.00613. KG/13)     | 2500  | 69.3   | 69.8   | 71.0   | 72.8   | 74.3   | 76.2   | 74.4   | 73.9   | 74.6   | 74.5   | 74.7   |     |     |     |     |     |     |     |     |  |
| NFA 7544. RPM       | 3150  | 69.3   | 69.6   | 71.0   | 72.6   | 75.1   | 76.2   | 77.2   | 76.1   | 80.2   | 76.8   | 75.4   |     |     |     |     |     |     |     |     |  |
| ( 759. RAD/SEC)     | 4000  | 68.8   | 69.6   | 71.6   | 73.1   | 75.8   | 76.4   | 78.9   | 79.1   | 84.0   | 83.6   | 76.4   |     |     |     |     |     |     |     |     |  |
| NFK 7127. RPM       | 5000  | 70.5   | 72.3   | 73.5   | 77.1   | 79.3   | 81.4   | 84.1   | 85.9   | 89.0   | 84.4   | 78.9   |     |     |     |     |     |     |     |     |  |
| ( 746. RAD/SEC)     | 6300  | 71.7   | 73.3   | 75.6   | 77.6   | 81.5   | 84.4   | 86.8   | 88.8   | 90.8   | 95.7   | 79.8   |     |     |     |     |     |     |     |     |  |
| NFD 8823. RPM       | 8000  | 72.7   | 74.6   | 77.8   | 81.1   | 83.2   | 85.5   | 89.7   | 91.5   | 92.0   | 86.5   | 80.4   |     |     |     |     |     |     |     |     |  |
| ( 924. RAD/SEC)     | 10000 | 76.8   | 72.1   | 74.8   | 77.7   | 79.9   | 83.3   | 85.1   | 87.5   | 89.7   | 83.1   | 77.4   |     |     |     |     |     |     |     |     |  |
| NO. OF BLADES 15    | 12500 | 74.3   | 77.4   | 82.8   | 85.8   | 89.0   | 91.3   | 93.8   | 93.8   | 92.4   | 87.0   | 80.9   |     |     |     |     |     |     |     |     |  |
| FAN TIP SPEED 10000 | 16000 | 72.9   | 75.9   | 79.7   | 83.8   | 86.8   | 90.6   | 93.3   | 91.8   | 92.0   | 85.5   | 78.4   |     |     |     |     |     |     |     |     |  |
| 615. FT/SEC         | 20000 | 71.8   | 74.2   | 77.3   | 79.5   | 82.6   | 85.6   | 88.5   | 91.5   | 92.9   | 86.2   | 78.3   |     |     |     |     |     |     |     |     |  |
|                     | 25000 | 73.0   | 74.4   | 74.6   | 76.7   | 81.3   | 84.2   | 87.1   | 90.2   | 91.5   | 86.3   | 77.7   |     |     |     |     |     |     |     |     |  |
|                     | 31500 | 74.8   | 73.2   | 73.6   | 75.7   | 78.5   | 81.5   | 85.3   | 88.5   | 89.2   | 83.7   | 75.8   |     |     |     |     |     |     |     |     |  |
|                     | 40000 | 75.2   | 74.2   | 73.2   | 74.6   | 77.7   | 80.9   | 83.6   | 85.7   | 86.8   | 81.4   | 73.3   |     |     |     |     |     |     |     |     |  |
|                     | 50000 | 77.4   | 76.1   | 74.3   | 74.3   | 75.5   | 78.9   | 80.5   | 83.7   | 81.8   | 78.2   | 73.1   |     |     |     |     |     |     |     |     |  |
|                     | 63000 | 84.9   | 83.6   | 81.2   | 82.1   | 81.3   | 78.5   | 83.9   | 82.5   | 82.2   | 80.1   | 78.8   |     |     |     |     |     |     |     |     |  |
|                     | 80000 | 92.2   | 93.4   | 89.1   | 88.1   | 88.8   | 88.2   | 93.8   | 87.7   | 86.4   | 86.2   | 85.2   |     |     |     |     |     |     |     |     |  |
| OVERALL MEASURED    |       |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |     |  |
| OVERALL CALCULATED  |       | 93.9   | 94.9   | 92.8   | 93.7   | 95.6   | 97.8   | 99.2   | 100.7  | 101.8  | 97.6   | 93.6   |     |     |     |     |     |     |     |     |  |
| PNDB                |       | 96.8   | 97.4   | 98.9   | 100.8  | 102.7  | 99.4   | 107.1  | 108.5  | 110.6  | 107.4  | 104.5  |     |     |     |     |     |     |     |     |  |

| FREQ.              | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 154.   | 0.    | 0.    | 0.    | 0.    | 0.    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
|                    | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)   | (0)   | (0)   | (0)   | (0)   |
| SIDELINE 203. FT.  | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50    | 50    | 50    | 50    | 50    |
| (66.96 M)          | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63    | 63    | 63    | 63    | 63    |
| VEHICLE 3-55       | 106    | 106    | 106    | 106    | 106    | 106    | 106    | 106    | 106    | 106    | 106    | 106   | 106   | 106   | 106   | 106   |
| COEFIC 75-3        | 123    | 123    | 123    | 123    | 123    | 123    | 123    | 123    | 123    | 123    | 123    | 123   | 123   | 123   | 123   | 123   |
| LOC SCHEMECTADY    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250   | 250   | 250   | 250   | 250   |
| DATE 21-29-75      | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250   | 250   | 250   | 250   | 250   |
| RUN RLV 00, PTe3   | 323    | 323    | 323    | 323    | 323    | 323    | 323    | 323    | 323    | 323    | 323    | 323   | 323   | 323   | 323   | 323   |
| TAPE 31            | 430    | 430    | 430    | 430    | 430    | 430    | 430    | 430    | 430    | 430    | 430    | 430   | 430   | 430   | 430   | 430   |
| BAR 26.7 HG        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500   | 500   | 500   | 500   | 500   |
| (00157, M/12)      | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630   | 630   | 630   | 630   | 630   |
| TAMB 47, DEG F     | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600   | 600   | 600   | 600   | 600   |
| (201, DEG K)       | 1700   | 1700   | 1700   | 1700   | 1700   | 1700   | 1700   | 1700   | 1700   | 1700   | 1700   | 1700  | 1700  | 1700  | 1700  | 1700  |
| TWET 33, DEG F     | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250  | 1250  | 1250  | 1250  | 1250  |
| (275, DEG K)       | 1630   | 1630   | 1630   | 1630   | 1630   | 1630   | 1630   | 1630   | 1630   | 1630   | 1630   | 1630  | 1630  | 1630  | 1630  | 1630  |
| WACT 6.13 CM/M3    | 2030   | 2030   | 2030   | 2030   | 2030   | 2030   | 2030   | 2030   | 2030   | 2030   | 2030   | 2030  | 2030  | 2030  | 2030  | 2030  |
| (.00013 KG/13)     | 2530   | 2530   | 2530   | 2530   | 2530   | 2530   | 2530   | 2530   | 2530   | 2530   | 2530   | 2530  | 2530  | 2530  | 2530  | 2530  |
| WFA 7-44, RPM      | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150  | 3150  | 3150  | 3150  | 3150  |
| ( 738, RAD/SEC)    | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000  | 4000  | 4000  | 4000  | 4000  |
| WFK 7127, RPM      | 5300   | 5300   | 5300   | 5300   | 5300   | 5300   | 5300   | 5300   | 5300   | 5300   | 5300   | 5300  | 5300  | 5300  | 5300  | 5300  |
| ( 740, RAD/SEC)    | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300  | 6300  | 6300  | 6300  | 6300  |
| WFD 8823, RPM      | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000  | 8000  | 8000  | 8000  | 8000  |
| ( 924, RAD/SEC)    | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000 | 10000 | 10000 | 10000 | 10000 |
| NO. OF BLADES 15   | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500 | 12500 | 12500 | 12500 | 12500 |
| FAA TIP SPEED      | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000 | 16000 | 16000 | 16000 | 16000 |
| 615, FT/SEC        | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000 | 20000 | 20000 | 20000 | 20000 |
|                    | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500 | 31500 | 31500 | 31500 | 31500 |
|                    | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000 | 40000 | 40000 | 40000 | 40000 |
|                    | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000 | 50000 | 50000 | 50000 | 50000 |
|                    | 60000  | 60000  | 60000  | 60000  | 60000  | 60000  | 60000  | 60000  | 60000  | 60000  | 60000  | 60000 | 60000 | 60000 | 60000 | 60000 |
| OVERALL CALCULATED | 60.1   | 62.9   | 64.6   | 66.1   | 67.8   | 69.6   | 71.3   | 73.4   | 75.2   | 76.8   | 78.2   | 79.8  | 81.1  | 82.9  | 84.8  | 86.9  |
| PROB               | 69.6   | 72.1   | 74.3   | 76.9   | 78.8   | 79.2   | 82.3   | 82.6   | 82.6   | 82.6   | 77.8   | 69.3  |       |       |       |       |

ORIGINAL PAGE IS  
 OF POOR QUALITY

MODEL SOUND PRESSURE LEVELS (50, DEG. F, 70 PERCENT REL. HUM. DAY)  
 PROC. DATE - MONTH 2 DAY 25 NR. 1978  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

FREQ. (3.92)(1.08)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(3.0)(3.0)(3.0)(3.0)(3.0) PNL

|                     | 53.   | 62.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0.   | 0. | 0. | 0. | 0. | 0. | 0. |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----|----|----|----|----|----|
| RADIAL 17. FT.      | 80    | 68.4  | 69.9  | 70.2  | 69.3  | 71.0  | 72.5  | 74.0  | 75.3  | 77.5  | 81.1  | 85.9 |    |    |    |    |    |    |
| ( 5. 4)             | 100   | 69.9  | 72.5  | 73.5  | 72.5  | 73.0  | 74.0  | 74.5  | 75.3  | 79.0  | 82.9  | 87.5 |    |    |    |    |    |    |
| VEHICLE 2-55        | 125   | 75.0  | 77.5  | 77.3  | 76.3  | 77.3  | 78.4  | 78.6  | 81.6  | 82.3  | 83.7  | 87.5 |    |    |    |    |    |    |
| CONFIG 73-3         | 150   | 74.9  | 75.7  | 75.5  | 75.8  | 75.3  | 77.4  | 78.5  | 79.8  | 82.3  | 84.4  | 87.2 |    |    |    |    |    |    |
| LOC SCHEMECTADY     | 210   | 73.5  | 74.3  | 74.3  | 75.4  | 77.4  | 79.4  | 81.3  | 81.9  | 83.6  | 85.9  | 88.3 |    |    |    |    |    |    |
| DATE 11-20-75       | 250   | 73.7  | 79.3  | 81.1  | 81.3  | 82.1  | 83.8  | 84.1  | 85.6  | 86.4  | 87.2  | 88.5 |    |    |    |    |    |    |
| RUA RUN 68. PT-4    | 315   | 78.5  | 78.8  | 78.8  | 79.4  | 79.9  | 79.4  | 81.1  | 81.9  | 83.1  | 84.4  | 86.8 |    |    |    |    |    |    |
| TAPE 31             | 400   | 77.2  | 77.2  | 77.8  | 77.8  | 79.4  | 77.8  | 81.0  | 81.8  | 82.8  | 83.9  | 85.7 |    |    |    |    |    |    |
| BAR 29.7 KG         | 500   | 75.1  | 75.6  | 76.9  | 76.7  | 75.2  | 76.4  | 81.0  | 82.2  | 83.4  | 84.0  | 84.8 |    |    |    |    |    |    |
| (OC157. 1/42)       | 630   | 76.2  | 76.2  | 78.1  | 75.3  | 79.4  | 77.8  | 82.5  | 83.1  | 84.1  | 84.2  | 84.5 |    |    |    |    |    |    |
| TAPS 47. DE3 F      | 800   | 76.3  | 76.8  | 78.6  | 75.6  | 79.1  | 76.1  | 81.8  | 82.9  | 83.6  | 83.5  | 83.5 |    |    |    |    |    |    |
| (201. DE3 K)        | 1000  | 74.5  | 75.5  | 78.2  | 77.1  | 79.0  | 75.5  | 81.5  | 82.9  | 84.1  | 83.4  | 82.7 |    |    |    |    |    |    |
| TREY 41. DE3 F      | 1250  | 74.3  | 74.3  | 77.6  | 76.7  | 77.9  | 74.6  | 81.1  | 81.7  | 83.7  | 82.5  | 82.0 |    |    |    |    |    |    |
| (273. DE3 K)        | 1500  | 73.9  | 74.2  | 75.0  | 75.8  | 77.3  | 73.7  | 79.4  | 81.3  | 82.3  | 81.4  | 80.9 |    |    |    |    |    |    |
| MACT 6.13 CM/13     | 2100  | 74.6  | 74.3  | 75.8  | 76.9  | 75.3  | 73.5  | 79.3  | 81.4  | 82.9  | 83.8  | 83.7 |    |    |    |    |    |    |
| (.00613. KG/M3)     | 2500  | 73.2  | 73.8  | 74.8  | 75.8  | 77.3  | 72.6  | 77.7  | 77.6  | 78.4  | 78.8  | 84.8 |    |    |    |    |    |    |
| GFA 78.9. RMH       | 3150  | 72.8  | 73.6  | 74.5  | 75.6  | 77.4  | 72.9  | 77.9  | 78.4  | 81.7  | 79.3  | 84.5 |    |    |    |    |    |    |
| ( 819. RAD/SEC)     | 4100  | 73.3  | 73.8  | 74.3  | 76.9  | 79.3  | 74.9  | 81.4  | 83.1  | 87.9  | 83.6  | 83.5 |    |    |    |    |    |    |
| NFK 7811. RPM       | 5100  | 73.5  | 74.1  | 75.3  | 77.9  | 81.1  | 76.2  | 83.4  | 86.9  | 90.5  | 85.4  | 82.7 |    |    |    |    |    |    |
| ( 828. RAD/SEC)     | 6300  | 75.9  | 77.1  | 79.1  | 81.8  | 83.5  | 81.2  | 91.3  | 92.6  | 94.3  | 87.9  | 82.1 |    |    |    |    |    |    |
| RFD 8823. RPM       | 8000  | 75.7  | 77.6  | 80.5  | 84.1  | 86.2  | 82.2  | 92.5  | 94.5  | 94.8  | 88.2  | 82.6 |    |    |    |    |    |    |
| ( 924. RAD/SEC)     | 11300 | 73.3  | 74.6  | 76.5  | 79.5  | 81.7  | 77.4  | 88.1  | 90.2  | 91.9  | 85.3  | 79.2 |    |    |    |    |    |    |
| NO. OF BLADES 15    | 12500 | 74.8  | 76.9  | 80.0  | 83.0  | 86.8  | 80.8  | 91.6  | 93.7  | 93.9  | 87.5  | 81.4 |    |    |    |    |    |    |
| FAN TIP SPEED 16783 | 16783 | 73.6  | 77.1  | 80.9  | 83.6  | 86.5  | 82.4  | 91.6  | 94.6  | 93.9  | 87.8  | 81.6 |    |    |    |    |    |    |
| 683. FT/SEC         | 21000 | 76.0  | 77.7  | 80.5  | 83.2  | 86.3  | 82.8  | 92.9  | 94.5  | 95.1  | 88.9  | 81.8 |    |    |    |    |    |    |
|                     | 25000 | 76.3  | 76.9  | 78.8  | 81.0  | 84.8  | 80.7  | 91.1  | 94.2  | 95.7  | 89.2  | 82.8 |    |    |    |    |    |    |
|                     | 31500 | 75.7  | 76.4  | 76.8  | 79.4  | 82.3  | 79.2  | 89.3  | 92.5  | 93.4  | 86.7  | 79.1 |    |    |    |    |    |    |
|                     | 40000 | 76.4  | 76.7  | 75.4  | 77.3  | 81.2  | 76.1  | 87.3  | 89.9  | 90.1  | 84.4  | 75.6 |    |    |    |    |    |    |
|                     | 51000 | 78.4  | 78.1  | 75.1  | 75.7  | 73.5  | 75.1  | 83.7  | 84.7  | 85.3  | 80.7  | 73.6 |    |    |    |    |    |    |
|                     | 63000 | 85.4  | 84.6  | 81.7  | 81.1  | 82.5  | 80.5  | 84.9  | 84.9  | 84.4  | 81.4  | 78.6 |    |    |    |    |    |    |
|                     | 81000 | 93.4  | 93.7  | 89.4  | 88.1  | 88.8  | 86.4  | 98.8  | 87.7  | 86.9  | 85.7  | 85.2 |    |    |    |    |    |    |
| OVERALL MEASURED    |       |       |       |       |       |       |       |       |       |       |       |      |    |    |    |    |    |    |
| OVERALL CALCULATED  | 95.3  | 95.8  | 94.3  | 93.1  | 96.9  | 94.6  | 101.7 | 103.7 | 104.5 | 100.8 | 99.3  |      |    |    |    |    |    |    |
| PNDS                | 99.9  | 100.7 | 102.3 | 104.8 | 105.6 | 102.9 | 110.7 | 111.9 | 113.8 | 110.8 | 109.9 |      |    |    |    |    |    |    |

DATE: 11/20/75



802

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000) ANGLES FROM INLET (A DEGREES (AND RADIANS))

PROC. DATE - MONTH 3 DAY 18 HR 13.0

70 PERCENT REL. HUM. DAY 13.0

FREQ. (0.92)(1.08)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(3.0)(3.4)(3.8)(4.3)(4.9)(5.5)(6.3)(7.1)(8.0)(9.0)(10.0) PUL

|                    | 50    | 63   | 80   | 100   | 125   | 160   | 200   | 250   | 315   | 400   | 500   | 630   | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 | 6300 | 8000 |  |
|--------------------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|------|------|------|------|------|------|------|------|------|--|
| RADIAL 17. FT.     | 80    | 65.1 | 63.9 | 67.2  | 67.7  | 68.2  | 70.7  | 73.2  | 74.7  | 77.2  | 80.6  | 85.2  |     |      |      |      |      |      |      |      |      |      |      |  |
| VEHICLE            | 100   | 67.2 | 70.9 | 71.3  | 71.8  | 72.3  | 74.7  | 77.2  | 79.0  | 81.0  | 82.4  | 87.0  |     |      |      |      |      |      |      |      |      |      |      |  |
| CONFIG NC-02       | 125   | 74.7 | 77.3 | 77.1  | 75.8  | 77.1  | 79.6  | 78.3  | 80.1  | 81.8  | 82.9  | 87.5  |     |      |      |      |      |      |      |      |      |      |      |  |
| LOC SCHENECTADY    | 160   | 74.6 | 79.2 | 74.8  | 75.5  | 75.8  | 79.0  | 77.8  | 79.3  | 82.0  | 83.6  | 87.9  |     |      |      |      |      |      |      |      |      |      |      |  |
| DATE 01-29-75      | 200   | 73.0 | 72.6 | 73.3  | 75.1  | 76.9  | 79.1  | 79.6  | 81.1  | 83.1  | 84.9  | 88.0  |     |      |      |      |      |      |      |      |      |      |      |  |
| RUN 685            | 250   | 78.0 | 78.9 | 79.8  | 80.3  | 81.6  | 83.1  | 84.8  | 85.4  | 86.4  | 87.0  | 88.0  |     |      |      |      |      |      |      |      |      |      |      |  |
| TYPE 31            | 315   | 77.0 | 78.6 | 78.6  | 79.1  | 79.1  | 79.9  | 80.8  | 81.4  | 82.9  | 84.2  | 86.3  |     |      |      |      |      |      |      |      |      |      |      |  |
| BAR 3810 HG        | 400   | 76.7 | 77.8 | 76.8  | 77.5  | 78.3  | 79.0  | 80.2  | 81.3  | 82.5  | 83.4  | 85.7  |     |      |      |      |      |      |      |      |      |      |      |  |
| (0127) N/M2        | 500   | 74.8 | 74.6 | 75.2  | 76.4  | 77.4  | 78.7  | 80.4  | 81.4  | 82.9  | 83.6  | 84.3  |     |      |      |      |      |      |      |      |      |      |      |  |
| TARB 47 DEG F      | 630   | 75.2 | 79.8 | 76.6  | 78.3  | 79.1  | 79.3  | 82.3  | 83.1  | 83.6  | 83.9  | 84.0  |     |      |      |      |      |      |      |      |      |      |      |  |
| (201) DEG K        | 800   | 95.8 | 79.8 | 76.6  | 77.9  | 78.9  | 79.9  | 81.3  | 82.4  | 82.9  | 83.8  | 82.8  |     |      |      |      |      |      |      |      |      |      |      |  |
| THEY 42 DEG F      | 1000  | 74.5 | 74.8 | 74.8  | 76.6  | 77.6  | 78.8  | 80.8  | 82.6  | 83.6  | 82.2  | 82.2  |     |      |      |      |      |      |      |      |      |      |      |  |
| (270) DEG K        | 1250  | 74.3 | 73.8 | 74.6  | 76.4  | 77.4  | 78.3  | 80.6  | 81.9  | 83.4  | 81.8  | 81.5  |     |      |      |      |      |      |      |      |      |      |      |  |
| MAGY 5.95 GM/M3    | 1600  | 92.9 | 73.8 | 74.8  | 75.5  | 76.5  | 78.5  | 79.2  | 80.6  | 82.1  | 80.7  | 80.4  |     |      |      |      |      |      |      |      |      |      |      |  |
| (.8855) KG/M3      | 2000  | 73.9 | 73.3 | 74.6  | 76.6  | 77.8  | 78.8  | 80.4  | 82.4  | 82.4  | 80.3  | 80.9  |     |      |      |      |      |      |      |      |      |      |      |  |
| NFA 70.9 RPM       | 2500  | 72.5 | 72.3 | 73.5  | 75.6  | 76.8  | 78.0  | 77.4  | 77.4  | 78.7  | 78.3  | 78.4  |     |      |      |      |      |      |      |      |      |      |      |  |
| (8.9) RAD/SEC      | 3150  | 72.1 | 72.1 | 73.3  | 74.9  | 77.3  | 78.5  | 78.8  | 78.1  | 81.7  | 78.6  | 78.2  |     |      |      |      |      |      |      |      |      |      |      |  |
| NFE 79.11 RPM      | 4000  | 72.8 | 72.8 | 73.8  | 76.4  | 78.8  | 79.0  | 80.9  | 82.4  | 88.8  | 83.6  | 79.9  |     |      |      |      |      |      |      |      |      |      |      |  |
| (82.8) RAD/SEC     | 5000  | 72.8 | 72.8 | 74.8  | 77.7  | 79.8  | 79.9  | 85.2  | 87.2  | 90.2  | 84.6  | 79.9  |     |      |      |      |      |      |      |      |      |      |      |  |
| NFD 3023 RPM       | 6300  | 75.2 | 75.9 | 78.8  | 81.6  | 83.8  | 86.2  | 91.1  | 91.1  | 94.8  | 87.4  | 82.3  |     |      |      |      |      |      |      |      |      |      |      |  |
| (926) RAD/SEC      | 8000  | 74.9 | 79.1 | 80.2  | 84.8  | 86.2  | 89.2  | 92.2  | 94.2  | 94.5  | 88.4  | 83.8  |     |      |      |      |      |      |      |      |      |      |      |  |
| NO. OF BLADES 18   | 10000 | 71.3 | 73.6 | 76.3  | 79.4  | 81.4  | 86.8  | 91.4  | 96.7  | 91.4  | 85.8  | 78.9  |     |      |      |      |      |      |      |      |      |      |      |  |
| FAN TIP SPEED      | 12500 | 73.4 | 76.3 | 79.8  | 82.9  | 86.1  | 89.6  | 91.1  | 93.8  | 94.3  | 87.6  | 80.9  |     |      |      |      |      |      |      |      |      |      |      |  |
| 685 FT/SEC         | 16000 | 73.9 | 76.2 | 80.3  | 83.9  | 86.1  | 89.6  | 91.4  | 94.7  | 94.6  | 88.9  | 81.2  |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 20000 | 72.9 | 76.6 | 80.7  | 83.1  | 85.7  | 89.2  | 92.2  | 94.9  | 96.0  | 88.6  | 81.7  |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 25000 | 71.4 | 74.1 | 77.7  | 80.4  | 83.7  | 87.1  | 90.7  | 93.5  | 95.1  | 88.9  | 80.4  |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 31500 | 69.9 | 73.1 | 75.5  | 78.3  | 81.4  | 84.7  | 88.9  | 92.4  | 93.1  | 86.8  | 78.2  |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 40000 | 69.6 | 71.9 | 74.9  | 78.9  | 81.4  | 84.7  | 88.7  | 92.6  | 90.8  | 83.8  | 73.8  |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 50000 | 68.2 | 68.9 | 70.3  | 73.6  | 76.7  | 79.7  | 83.0  | 86.3  | 82.9  | 78.1  | 69.2  |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 63000 | 68.4 | 69.8 | 72.8  | 76.6  | 79.8  | 83.0  | 86.4  | 91.4  | 92.3  | 88.7  | 63.6  |     |      |      |      |      |      |      |      |      |      |      |  |
|                    | 80000 | 68.5 | 68.5 | 72.8  | 76.8  | 79.8  | 83.7  | 87.8  | 91.1  | 89.1  | 83.4  | 64.6  |     |      |      |      |      |      |      |      |      |      |      |  |
| OVERALL MEASURED   |       | 88.9 | 81.6 | 81.2  | 83.5  | 85.8  | 91.8  | 101.8 | 103.4 | 104.5 | 99.4  | 98.2  |     |      |      |      |      |      |      |      |      |      |      |  |
| OVERALL CALCULATED |       | 99.0 | 99.6 | 101.5 | 103.7 | 105.2 | 107.8 | 110.4 | 112.9 | 113.9 | 109.9 | 107.2 |     |      |      |      |      |      |      |      |      |      |      |  |

REV. 6-1981 INSTR. 11

FREQ: (0.92)(1.08)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(3.0)(3.0)(3.0)(3.0)(3.0)(3.0)(3.0)(3.0)

|                    | 50    | 63   | 80   | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000 | 1250 | 1600 | 2000 | 2500 | 3150  | 4000  | 5000  | 6300  | 8000  | 10000 |       |      |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|
| SIDELINE 200 FT    | 41.5  | 43.3 | 45.2 | 46.1 | 47.0 | 47.8 | 48.6 | 49.4 | 50.2 | 51.1 | 51.9 | 52.7 | 53.5 | 54.3 | 55.1 | 55.9 | 56.7 | 57.5 | 58.3  | 59.1  | 59.9  | 60.7  | 61.5  | 62.3  | 63.1  |      |
| ( 60.98 M)         | 43.5  | 47.7 | 49.2 | 50.1 | 50.7 | 51.3 | 51.9 | 52.5 | 53.1 | 53.7 | 54.3 | 54.9 | 55.5 | 56.1 | 56.7 | 57.3 | 57.9 | 58.5 | 59.1  | 59.7  | 60.3  | 60.9  | 61.5  | 62.1  | 62.7  |      |
| VEHICLE            | 53.9  | 54.5 | 54.9 | 54.8 | 55.4 | 55.8 | 56.0 | 56.9 | 57.3 | 57.6 | 57.9 | 58.2 | 58.5 | 58.8 | 59.1 | 59.4 | 59.7 | 60.0 | 60.3  | 60.6  | 60.9  | 61.2  | 61.5  | 61.8  | 62.1  |      |
| CONFIG 96-4        | 58.5  | 52.3 | 52.5 | 53.7 | 54.0 | 54.1 | 54.4 | 54.8 | 55.1 | 55.4 | 55.7 | 56.0 | 56.3 | 56.6 | 56.9 | 57.2 | 57.5 | 57.8 | 58.1  | 58.4  | 58.7  | 59.0  | 59.3  | 59.6  | 59.9  |      |
| LOC SCHENECTADY    | 47.8  | 49.6 | 51.8 | 53.2 | 55.1 | 56.1 | 57.1 | 57.8 | 58.4 | 58.9 | 59.4 | 59.9 | 60.4 | 60.9 | 61.4 | 61.9 | 62.4 | 62.9 | 63.4  | 63.9  | 64.4  | 64.9  | 65.4  | 65.9  | 66.4  | 66.9 |
| DATE 81-29-79      | 53.9  | 55.5 | 57.4 | 58.3 | 59.7 | 60.8 | 61.8 | 62.8 | 63.8 | 64.8 | 65.8 | 66.8 | 67.8 | 68.8 | 69.8 | 70.8 | 71.8 | 72.8 | 73.8  | 74.8  | 75.8  | 76.8  | 77.8  | 78.8  | 79.8  |      |
| RUN 685            | 53.6  | 55.4 | 56.1 | 57.0 | 57.1 | 57.2 | 57.3 | 57.4 | 57.5 | 57.6 | 57.7 | 57.8 | 57.9 | 58.0 | 58.1 | 58.2 | 58.3 | 58.4 | 58.5  | 58.6  | 58.7  | 58.8  | 58.9  | 59.0  | 59.1  |      |
| TAPE 31            | 42.4  | 53.7 | 54.2 | 55.3 | 56.2 | 56.5 | 57.4 | 57.8 | 58.2 | 58.6 | 59.0 | 59.4 | 59.8 | 60.2 | 60.6 | 61.0 | 61.4 | 61.8 | 62.2  | 62.6  | 63.0  | 63.4  | 63.8  | 64.2  | 64.6  | 65.0 |
| BAR 38.8 HG        | 59.4  | 51.2 | 52.5 | 54.2 | 55.3 | 56.3 | 57.3 | 58.3 | 59.3 | 60.3 | 61.3 | 62.3 | 63.3 | 64.3 | 65.3 | 66.3 | 67.3 | 68.3 | 69.3  | 70.3  | 71.3  | 72.3  | 73.3  | 74.3  | 75.3  |      |
| (01272, K/M2)      | 50.7  | 51.5 | 53.0 | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0  | 70.0  | 71.0  | 72.0  | 73.0  | 74.0  | 75.0  |      |
| YAW 47, DEG F      | 51.1  | 53.2 | 53.7 | 55.4 | 56.5 | 57.5 | 58.5 | 59.5 | 60.5 | 61.5 | 62.5 | 63.5 | 64.5 | 65.5 | 66.5 | 67.5 | 68.5 | 69.5 | 70.5  | 71.5  | 72.5  | 73.5  | 74.5  | 75.5  | 76.5  |      |
| (281, DEG K)       | 49.8  | 51.0 | 52.0 | 54.0 | 55.1 | 56.1 | 57.1 | 58.1 | 59.1 | 60.1 | 61.1 | 62.1 | 63.1 | 64.1 | 65.1 | 66.1 | 67.1 | 68.1 | 69.1  | 70.1  | 71.1  | 72.1  | 73.1  | 74.1  | 75.1  |      |
| TRBT 42, DEG F     | 49.3  | 49.9 | 51.5 | 53.7 | 54.8 | 55.8 | 56.8 | 57.8 | 58.8 | 59.8 | 60.8 | 61.8 | 62.8 | 63.8 | 64.8 | 65.8 | 66.8 | 67.8 | 68.8  | 69.8  | 70.8  | 71.8  | 72.8  | 73.8  | 74.8  |      |
| (279, DEG K)       | 47.7  | 48.9 | 50.6 | 52.6 | 53.7 | 54.8 | 55.7 | 56.8 | 57.8 | 58.8 | 59.8 | 60.8 | 61.8 | 62.8 | 63.8 | 64.8 | 65.8 | 66.8 | 67.8  | 68.8  | 69.8  | 70.8  | 71.8  | 72.8  | 73.8  |      |
| MAGT 5.55 G/M3     | 46.1  | 49.3 | 51.0 | 53.5 | 54.9 | 56.4 | 57.9 | 59.4 | 60.9 | 62.4 | 63.9 | 65.4 | 66.9 | 68.4 | 69.9 | 71.4 | 72.9 | 74.4 | 75.9  | 77.4  | 78.9  | 80.4  | 81.9  | 83.4  | 84.9  |      |
| (.00555 KG/M3)     | 46.8  | 47.8 | 48.8 | 52.3 | 53.7 | 55.0 | 56.3 | 57.6 | 58.9 | 60.2 | 61.5 | 62.8 | 64.1 | 65.4 | 66.7 | 68.0 | 69.3 | 70.6 | 71.9  | 73.2  | 74.5  | 75.8  | 77.1  | 78.4  | 79.7  |      |
| WFA 78.9, RPM      | 46.0  | 47.3 | 49.3 | 51.3 | 53.9 | 56.9 | 60.0 | 63.1 | 66.2 | 69.3 | 72.4 | 75.5 | 78.6 | 81.7 | 84.8 | 87.9 | 91.0 | 94.1 | 97.2  | 100.3 | 103.4 | 106.5 | 109.6 | 112.7 | 115.8 |      |
| ( 816, RAD/SEC)    | 45.5  | 47.3 | 49.3 | 52.4 | 55.0 | 57.9 | 60.8 | 63.7 | 66.6 | 69.5 | 72.4 | 75.3 | 78.2 | 81.1 | 84.0 | 86.9 | 89.8 | 92.7 | 95.6  | 98.5  | 101.4 | 104.3 | 107.2 | 110.1 | 113.0 |      |
| WPK 79.1, RPM      | 45.2  | 47.3 | 51.1 | 53.5 | 55.8 | 58.7 | 61.6 | 64.5 | 67.4 | 70.3 | 73.2 | 76.1 | 79.0 | 81.9 | 84.8 | 87.7 | 90.6 | 93.5 | 96.4  | 99.3  | 102.2 | 105.1 | 108.0 | 110.9 | 113.8 |      |
| ( 828, RAD/SEC)    | 47.5  | 49.3 | 53.4 | 56.7 | 59.3 | 62.0 | 64.7 | 67.4 | 70.1 | 72.8 | 75.5 | 78.2 | 80.9 | 83.6 | 86.3 | 89.0 | 91.7 | 94.4 | 97.1  | 99.8  | 102.5 | 105.2 | 107.9 | 110.6 | 113.3 |      |
| WPD 88.3, RPM      | 45.7  | 47.5 | 53.6 | 56.0 | 58.6 | 61.2 | 63.8 | 66.4 | 69.0 | 71.6 | 74.2 | 76.8 | 79.4 | 82.0 | 84.6 | 87.2 | 89.8 | 92.4 | 95.0  | 97.6  | 100.2 | 102.8 | 105.4 | 108.0 | 110.6 |      |
| ( 924, RAD/SEC)    | 48.2  | 44.2 | 48.1 | 51.0 | 54.1 | 57.2 | 60.3 | 63.4 | 66.5 | 69.6 | 72.7 | 75.8 | 78.9 | 82.0 | 85.1 | 88.2 | 91.3 | 94.4 | 97.5  | 100.6 | 103.7 | 106.8 | 109.9 | 113.0 | 116.1 |      |
| NO. OF BLADES 18   | 39.5  | 44.4 | 49.2 | 53.1 | 56.6 | 59.8 | 63.0 | 66.2 | 69.4 | 72.6 | 75.8 | 79.0 | 82.2 | 85.4 | 88.6 | 91.8 | 95.0 | 98.2 | 101.4 | 104.6 | 107.8 | 111.0 | 114.2 | 117.4 | 120.6 |      |
| FAN TIP SPEED      | 34.4  | 48.2 | 49.0 | 50.5 | 52.0 | 53.5 | 55.0 | 56.5 | 58.0 | 59.5 | 61.0 | 62.5 | 64.0 | 65.5 | 67.0 | 68.5 | 70.0 | 71.5 | 73.0  | 74.5  | 76.0  | 77.5  | 79.0  | 80.5  | 82.0  |      |
| 683, FT/SEC        | 28.3  | 39.2 | 41.3 | 44.9 | 47.8 | 50.7 | 53.6 | 56.5 | 59.4 | 62.3 | 65.2 | 68.1 | 71.0 | 73.9 | 76.8 | 79.7 | 82.6 | 85.5 | 88.4  | 91.3  | 94.2  | 97.1  | 100.0 | 102.9 | 105.8 |      |
|                    | 25.0  | 38.1 | 39.1 | 35.3 | 37.1 | 38.9 | 40.7 | 42.5 | 44.3 | 46.1 | 47.9 | 49.7 | 51.5 | 53.3 | 55.1 | 56.9 | 58.7 | 60.5 | 62.3  | 64.1  | 65.9  | 67.7  | 69.5  | 71.3  | 73.1  |      |
|                    | 31.5  | 3.8  | 12.3 | 18.8 | 23.2 | 27.6 | 32.0 | 36.4 | 40.8 | 45.2 | 49.6 | 54.0 | 58.4 | 62.8 | 67.2 | 71.6 | 76.0 | 80.4 | 84.8  | 89.2  | 93.6  | 98.0  | 102.4 | 106.8 | 111.2 |      |
|                    | 48000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |      |
|                    | 30000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |      |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |      |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |      |
| OVERALL CALCULATED | 63.9  | 64.3 | 64.2 | 64.2 | 65.7 | 67.0 | 72.7 | 73.9 | 73.6 | 68.5 | 64.6 |      |      |      |      |      |      |      |       |       |       |       |       |       |       |      |
| PROB               | 72.6  | 74.2 | 76.8 | 79.3 | 81.1 | 77.6 | 85.4 | 85.9 | 88.0 | 78.8 | 72.3 |      |      |      |      |      |      |      |       |       |       |       |       |       |       |      |

FREQ. (0.92)(1.00)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(3.0)(3.0)(3.0)(3.0)(3.0)(3.0) PUL

|                          | 90    | 100  | 120  | 140  | 158  | 176  | 194  | 213   | 232   | 252   | 273   | 300  | 300 | 300 | 300 | 300 | 300 |
|--------------------------|-------|------|------|------|------|------|------|-------|-------|-------|-------|------|-----|-----|-----|-----|-----|
| RADIAL 17 FT.            | 88.9  | 89.9 | 73.8 | 75.7 | 75.2 | 72.7 | 71.8 | 67.5  | 67.7  | 71.1  | 73.9  |      |     |     |     |     |     |
| VEHICLE (9, N)           | 100   | 74.4 | 79.2 | 79.5 | 81.3 | 80.8 | 79.5 | 77.8  | 78.3  | 76.3  | 74.1  | 76.5 |     |     |     |     |     |
| CONFID NC=826            | 125   | 64.7 | 65.3 | 71.3 | 68.8 | 78.8 | 74.8 | 67.1  | 70.3  | 71.1  | 71.9  | 75.8 |     |     |     |     |     |
| LOC SCHEMECTADY          | 100   | 64.2 | 65.2 | 63.3 | 65.5 | 65.8 | 73.0 | 67.8  | 68.3  | 70.3  | 71.9  | 74.3 |     |     |     |     |     |
| DATE 81-29-75            | 200   | 63.8 | 63.3 | 63.8 | 65.1 | 66.9 | 74.6 | 69.1  | 70.9  | 72.1  | 74.2  | 75.5 |     |     |     |     |     |
| RUN 686                  | 250   | 66.5 | 67.5 | 68.3 | 68.1 | 69.3 | 74.1 | 71.1  | 71.4  | 72.4  | 73.2  | 74.3 |     |     |     |     |     |
| TAPE 31                  | 315   | 67.5 | 68.1 | 68.3 | 68.8 | 68.9 | 73.6 | 69.8  | 70.4  | 71.4  | 72.2  | 73.8 |     |     |     |     |     |
| BAR 3018 HG              | 400   | 65.9 | 67.8 | 68.3 | 67.3 | 68.0 | 73.8 | 70.3  | 70.5  | 71.8  | 72.1  | 73.1 |     |     |     |     |     |
| (0127.1 N/N2)            | 500   | 64.6 | 65.9 | 65.4 | 64.9 | 67.9 | 71.7 | 70.9  | 71.8  | 73.7  | 73.8  | 75.2 |     |     |     |     |     |
| TAND 47 DEG F            | 630   | 66.0 | 67.8 | 68.1 | 68.8 | 70.8 | 72.3 | 73.8  | 74.4  | 75.4  | 74.9  | 75.8 |     |     |     |     |     |
| (28.1 DEG K)             | 800   | 64.0 | 67.3 | 67.8 | 69.9 | 69.6 | 74.4 | 72.6  | 73.4  | 74.9  | 74.5  | 71.5 |     |     |     |     |     |
| TWET 42 DEG F            | 1200  | 64.2 | 68.8 | 68.1 | 67.3 | 69.3 | 69.6 | 73.3  | 74.9  | 74.4  | 76.4  | 71.7 |     |     |     |     |     |
| (27.1 DEG K)             | 1250  | 66.5 | 67.1 | 67.1 | 69.7 | 71.9 | 71.1 | 76.3  | 78.7  | 74.4  | 81.8  | 74.8 |     |     |     |     |     |
| HACT 9.59 G/M3           | 1600  | 62.9 | 65.2 | 64.2 | 68.0 | 67.5 | 65.9 | 71.7  | 73.3  | 74.6  | 78.2  | 78.6 |     |     |     |     |     |
| (100325 G/M3)            | 2000  | 68.8 | 63.8 | 62.1 | 64.4 | 65.3 | 66.3 | 66.5  | 66.5  | 66.4  | 67.3  | 68.6 |     |     |     |     |     |
| NFA 947.1 RPH            | 2500  | 61.2 | 64.8 | 62.8 | 65.6 | 67.5 | 65.7 | 68.4  | 68.9  | 67.2  | 66.3  | 65.7 |     |     |     |     |     |
| (973 RAD/SEC)            | 3150  | 61.0 | 65.8 | 62.8 | 64.6 | 66.6 | 65.7 | 70.8  | 68.4  | 67.2  | 73.1  | 67.4 |     |     |     |     |     |
| NFX 5939.1 RPH           | 4000  | 72.1 | 68.6 | 64.8 | 67.7 | 69.8 | 67.5 | 74.4  | 70.2  | 61.8  | 68.9  | 72.7 |     |     |     |     |     |
| (508.1 RAD/SEC)          | 5000  | 44.7 | 67.6 | 66.3 | 68.9 | 71.8 | 68.2 | 77.9  | 70.7  | 62.5  | 81.1  | 73.4 |     |     |     |     |     |
| NFD 8823.1 RPH           | 6300  | 64.9 | 69.9 | 69.1 | 70.8 | 74.8 | 70.5 | 80.9  | 83.1  | 84.3  | 81.4  | 75.3 |     |     |     |     |     |
| (924.1 RAD/SEC)          | 8000  | 64.9 | 69.8 | 69.2 | 71.8 | 75.7 | 71.2 | 81.4  | 83.3  | 89.8  | 82.4  | 75.8 |     |     |     |     |     |
| NO. OF BLADES 15         | 10000 | 65.0 | 70.8 | 71.8 | 74.7 | 77.4 | 72.8 | 81.3  | 82.4  | 84.6  | 89.3  | 73.4 |     |     |     |     |     |
| PAN TIP SPEED 470 FT/SEC | 12500 | 76.4 | 76.9 | 82.8 | 87.1 | 88.6 | 84.4 | 92.9  | 90.6  | 90.8  | 85.1  | 78.7 |     |     |     |     |     |
|                          | 15000 | 62.4 | 70.9 | 68.9 | 69.6 | 73.2 | 68.6 | 80.7  | 83.4  | 88.8  | 81.8  | 74.8 |     |     |     |     |     |
|                          | 20000 | 68.4 | 78.6 | 63.7 | 68.9 | 71.8 | 68.6 | 77.2  | 80.8  | 83.6  | 79.9  | 78.1 |     |     |     |     |     |
|                          | 31530 | 59.8 | 72.8 | 61.7 | 65.1 | 68.6 | 65.4 | 73.2  | 78.7  | 80.6  | 75.8  | 64.9 |     |     |     |     |     |
|                          | 40000 | 59.8 | 71.9 | 60.1 | 62.7 | 66.1 | 61.7 | 73.2  | 78.6  | 78.8  | 74.5  | 64.5 |     |     |     |     |     |
|                          | 50000 | 59.8 | 70.6 | 58.8 | 58.6 | 64.8 | 59.5 | 68.8  | 67.3  | 70.4  | 68.3  | 58.7 |     |     |     |     |     |
|                          | 63000 | 56.9 | 64.6 | 54.9 | 54.1 | 58.3 | 57.5 | 59.7  | 60.2  | 62.8  | 59.2  | 54.8 |     |     |     |     |     |
|                          | 80000 | 56.5 | 68.8 | 56.8 | 55.8 | 54.7 | 58.8 | 55.1  | 55.1  | 55.1  | 53.4  | 54.4 |     |     |     |     |     |
| OVERALL MEASURED         |       | 61.8 | 65.2 | 66.4 | 69.8 | 68.4 | 68.7 | 68.2  | 64.7  | 68.8  | 62.8  | 67.4 |     |     |     |     |     |
| OVERALL CALCULATED       |       | 69.7 | 68.9 | 68.3 | 64.2 | 64.9 | 68.7 | 103.1 | 100.6 | 104.2 | 103.3 | 68.1 |     |     |     |     |     |

OK

|                    | 50     | 63     | 79     | 101    | 127    | 160    | 200    | 251    | 316    | 400    | 500    | 630    | 800    | 1000   | 1250   | 1600   | 2000   | 2500   | 3150   | 4000   | 5000   | 6300   | 8000   | 10000  |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ.              | (0.72) | (1.04) | (1.27) | (1.41) | (1.58) | (1.78) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.00) | (3.28) | (3.58) | (3.91) | (4.28) | (4.68) | (5.11) | (5.59) | (6.11) | (6.68) | (7.31) | (8.00) | (8.75) |
| SIDELINE 200 FT.   | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     |
| (60.96 M)          | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    |
| VEHICLE 90000      | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    | 120    |
| CONFID NC-226      | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    |
| LOC SCHENECTADY    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    |
| DATE 01-29-73      | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    |
| RUN 600            | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    |
| TARE 31            | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    |
| BAR 30.0 HG        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    |
| (01272, M/W2)      | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    | 630    |
| TANG 47, DEG F     | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    |
| (201, DEG R)       | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   |
| TWET 42, DEG F     | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   |
| (279, DEG R)       | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   |
| WACT 5.33 CM/MS    | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   |
| (00559, CM/MS)     | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   |
| WFS 3751, RPM      | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   | 3150   |
| ( 373, RAD/SEC)    | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   |
| WPK 3535, RPM      | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   |
| ( 368, RAD/SEC)    | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   | 6300   |
| WFS 8023, RPM      | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   |
| ( 924, RAD/SEC)    | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  |
| NO. OF PLACES 15   | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  |
| FAH TIP SPEED      | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  |
| 470, FT/SEC        | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  |
|                    | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  |
|                    | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  |
|                    | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  |
|                    | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  |
|                    | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  | 63000  |
|                    | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  | 80000  |
| OVERALL CALCULATED | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   |
| FAH                | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   |



PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)

PROC. DATE - MONTH 3 DAY 28 HR. 12:3

Table with columns for FREQ., RADIAL (FT. / S.M.), VEHICLE, CONFIG, LOC, DATE, RUN, TAPE, BAR, YAMB, YRBT, WACT, NFA, NFK, NFD, NO. OF BLADES, FAN TIP SPEED, OVERALL MEASURED, OVERALL CALCULATED, PNDS. Rows contain numerical data points for various parameters across different frequencies.

NO. OF BLADES 19

ORIGINAL PAGE IS OF POOR QUALITY

|                     | ANGLES FROM INLET IN DEGREES (AND RADIANS) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
|---------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
|                     | 59   | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 167    | 179    | 190    | 200    | 210    | 220    | 230    | 240    | 250    |       |
| FREQ.               | (0.92)                                     | (1.08) | (1.24) | (1.41) | (1.58) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.94) | (3.15) | (3.36) | (3.57) | (3.78) | (3.99) | (4.20) | (4.41) | (4.62) |       |
| SIDELINE 200 FT     | 53.0                                       | 55.3   | 57.2   | 59.6   | 62.5   | 66.0   | 69.3   | 73.5   | 77.4   | 81.1   | 84.6   | 87.9   | 91.0   | 93.9   | 96.6   | 99.1   | 101.5  | 103.8  | 105.9  | 107.8  | 109.5 |
| ( 60.96 M)          | 100  | 92.2   | 84.5   | 76.8   | 69.1   | 61.4   | 53.7   | 46.0   | 38.3   | 30.6   | 22.9   | 15.2   | 7.5    | -0.2   | -7.9   | -15.6  | -23.3  | -31.0  | -38.7  | -46.4  | -54.1 |
| VEHICLE 75-4        | 129  | 42.7   | 45.5   | 48.6   | 46.3   | 47.7   | 46.0   | 43.9   | 41.9   | 40.0   | 38.1   | 36.2   | 34.3   | 32.4   | 30.5   | 28.6   | 26.7   | 24.8   | 22.9   | 21.0   | 19.1  |
| CONFIG MC-028       | 160  | 41.0   | 43.3   | 44.0   | 46.2   | 45.5   | 44.9   | 43.9   | 42.9   | 41.9   | 40.9   | 39.9   | 38.9   | 37.9   | 36.9   | 35.9   | 34.9   | 33.9   | 32.9   | 31.9   | 30.9  |
| LOC SCHEMECTADY     | 200  | 39.5   | 40.0   | 41.0   | 43.7   | 45.1   | 46.0   | 47.4   | 48.3   | 49.3   | 50.3   | 51.3   | 52.3   | 53.3   | 54.3   | 55.3   | 56.3   | 57.3   | 58.3   | 59.3   | 60.3  |
| DATE 01-28-75       | 250  | 42.9   | 45.5   | 46.7   | 47.1   | 48.0   | 48.3   | 49.1   | 49.7   | 50.3   | 50.9   | 51.5   | 52.1   | 52.7   | 53.3   | 53.9   | 54.5   | 55.1   | 55.7   | 56.3   | 56.9  |
| RUN 672             | 315  | 43.3   | 45.6   | 46.6   | 46.5   | 47.1   | 47.0   | 47.7   | 47.7   | 47.7   | 47.7   | 47.7   | 47.7   | 47.7   | 47.7   | 47.7   | 47.7   | 47.7   | 47.7   | 47.7   | 47.7  |
| TAPE 3I             | 400  | 42.4   | 43.9   | 44.7   | 46.1   | 46.2   | 47.3   | 47.8   | 48.3   | 48.8   | 49.3   | 49.8   | 50.3   | 50.8   | 51.3   | 51.8   | 52.3   | 52.8   | 53.3   | 53.8   | 54.3  |
| BAR 30.0 MG         | 500  | 40.4   | 42.2   | 43.0   | 44.7   | 45.8   | 47.4   | 48.1   | 48.8   | 49.5   | 50.2   | 50.9   | 51.6   | 52.3   | 53.0   | 53.7   | 54.4   | 55.1   | 55.8   | 56.5   | 57.2  |
| (01272, N/M2)       | 630  | 42.0   | 43.0   | 45.3   | 47.2   | 48.6   | 50.2   | 51.1   | 51.9   | 52.8   | 53.7   | 54.6   | 55.5   | 56.4   | 57.3   | 58.2   | 59.1   | 60.0   | 60.9   | 61.8   | 62.7  |
| TRMS 40 DEG F       | 800  | 41.1   | 43.2   | 43.7   | 45.9   | 46.9   | 48.8   | 49.8   | 49.8   | 49.8   | 49.8   | 49.8   | 49.8   | 49.8   | 49.8   | 49.8   | 49.8   | 49.8   | 49.8   | 49.8   | 49.8  |
| (202, DEG K)        | 1000                                       | 39.1   | 41.3   | 43.0   | 44.7   | 46.1   | 47.9   | 49.3   | 50.3   | 50.9   | 51.5   | 52.1   | 52.7   | 53.3   | 53.9   | 54.5   | 55.1   | 55.7   | 56.3   | 56.9   | 57.5  |
| TRST 42 DEG F       | 1250                                       | 39.8   | 42.7   | 44.0   | 45.7   | 47.3   | 48.8   | 51.5   | 53.1   | 53.8   | 54.5   | 55.2   | 55.9   | 56.6   | 57.3   | 58.0   | 58.7   | 59.4   | 60.1   | 60.8   | 61.5  |
| (279, DEG K)        | 1500                                       | 38.7   | 41.4   | 42.9   | 44.6   | 46.0   | 47.7   | 49.2   | 49.9   | 50.6   | 51.3   | 52.0   | 52.7   | 53.4   | 54.1   | 54.8   | 55.5   | 56.2   | 56.9   | 57.6   | 58.3  |
| MAGY 5.26 G/M3      | 2000                                       | 35.0   | 39.8   | 39.0   | 41.5   | 42.6   | 43.1   | 43.6   | 43.9   | 44.3   | 44.6   | 44.9   | 45.2   | 45.5   | 45.8   | 46.1   | 46.4   | 46.7   | 47.0   | 47.3   | 47.6  |
| (.00526, MG/M3)     | 2500                                       | 36.1   | 40.0   | 40.0   | 42.6   | 44.2   | 45.4   | 46.6   | 47.9   | 48.3   | 48.6   | 48.9   | 49.2   | 49.5   | 49.8   | 50.1   | 50.4   | 50.7   | 51.0   | 51.3   | 51.6  |
| NFA 551 RPM         | 3150                                       | 35.5   | 39.8   | 39.0   | 41.6   | 43.4   | 45.1   | 46.5   | 47.9   | 48.3   | 48.6   | 48.9   | 49.2   | 49.5   | 49.8   | 50.1   | 50.4   | 50.7   | 51.0   | 51.3   | 51.6  |
| ( 577, RAD/SEC)     | 4000                                       | 36.5   | 40.8   | 40.2   | 42.7   | 44.0   | 46.0   | 47.7   | 49.3   | 50.0   | 50.3   | 50.6   | 50.9   | 51.2   | 51.5   | 51.8   | 52.1   | 52.4   | 52.7   | 53.0   | 53.3  |
| NFX 557 RPM         | 5000                                       | 35.8   | 39.8   | 39.1   | 41.7   | 44.0   | 46.9   | 49.3   | 50.9   | 51.5   | 51.8   | 52.1   | 52.4   | 52.7   | 53.0   | 53.3   | 53.6   | 53.9   | 54.2   | 54.5   | 54.8  |
| ( 983, RAD/SEC)     | 6300                                       | 35.7   | 40.5   | 41.7   | 42.7   | 45.3   | 48.5   | 51.3   | 53.0   | 53.8   | 54.1   | 54.4   | 54.7   | 55.0   | 55.3   | 55.6   | 55.9   | 56.2   | 56.5   | 56.8   | 57.1  |
| NPD 802 RPM         | 8000                                       | 34.8   | 40.6   | 42.6   | 43.6   | 46.4   | 49.6   | 52.8   | 55.0   | 55.8   | 56.1   | 56.4   | 56.7   | 57.0   | 57.3   | 57.6   | 57.9   | 58.2   | 58.5   | 58.8   | 59.1  |
| ( 924, RAD/SEC)     | 10000                                      | 35.7   | 41.3   | 43.9   | 45.7   | 48.1   | 51.2   | 54.6   | 57.0   | 57.8   | 58.1   | 58.4   | 58.7   | 59.0   | 59.3   | 59.6   | 59.9   | 60.2   | 60.5   | 60.8   | 61.1  |
| NO. OF BLADES 19    | 12500                                      | 39.0   | 44.7   | 50.8   | 55.1   | 58.9   | 62.6   | 66.3   | 69.0   | 71.7   | 74.4   | 77.1   | 79.8   | 82.5   | 85.2   | 87.9   | 90.6   | 93.3   | 96.0   | 98.7   | 101.4 |
| PAN TIP SPEED 16000 | 16000                                      | 37.0   | 43.1   | 48.8   | 53.8   | 58.8   | 63.8   | 68.8   | 73.8   | 78.8   | 83.8   | 88.8   | 93.8   | 98.8   | 103.8  | 108.8  | 113.8  | 118.8  | 123.8  | 128.8  | 133.8 |
| 4821 FT/SEC         | 20000                                      | 19.2   | 21.8   | 23.9   | 25.5   | 27.4   | 29.4   | 31.4   | 33.4   | 35.4   | 37.4   | 39.4   | 41.4   | 43.4   | 45.4   | 47.4   | 49.4   | 51.4   | 53.4   | 55.4   | 57.4  |
|                     | 25000                                      | 6.0    | 21.5   | 16.7   | 23.9   | 16.2   | 25.2   | 31.2   | 38.9   | 46.7   | 54.4   | 62.1   | 69.8   | 77.5   | 85.2   | 92.9   | 100.6  | 108.3  | 116.0  | 123.7  | 131.4 |
|                     | 31500                                      |        | 0.0    | 4.0    | 11.4   | 18.8   | 26.2   | 33.6   | 41.0   | 48.4   | 55.8   | 63.2   | 70.6   | 78.0   | 85.4   | 92.8   | 100.2  | 107.6  | 115.0  | 122.4  | 129.8 |
|                     | 40000                                      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
|                     | 50000                                      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
|                     | 63000                                      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
|                     | 80000                                      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
| OVERALL CALCULATED  |  | 37.6   | 40.1   | 42.6   | 45.0   | 47.5   | 50.0   | 52.5   | 55.0   | 57.5   | 60.0   | 62.5   | 65.0   | 67.5   | 70.0   | 72.5   | 75.0   | 77.5   | 80.0   | 82.5   | 85.0  |
| PNDS                |  | 33.0   | 37.1   | 37.4   | 39.6   | 41.7   | 43.8   | 45.9   | 48.0   | 50.1   | 52.2   | 54.3   | 56.4   | 58.5   | 60.6   | 62.7   | 64.8   | 66.9   | 69.0   | 71.1   | 73.2  |

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ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 167    | 178    | 189    | 200    | 210    | 220    | 230    | 240    | 250    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.94) | (3.16) | (3.38) | (3.60) | (3.83) | (4.06) | (4.29) | (4.52) | (4.76) |
| RADIAL 17, FT.     | 80     | 74.6   | 77.9   | 77.7   | 80.2   | 80.7   | 87.0   | 85.2   | 73.0   | 78.7   | 75.8   | 76.9   | 76.9   | 76.9   | 76.9   | 76.9   | 76.9   | 76.9   | 76.9   | 76.9   |
| ( 5. M)            | 100    | 72.7   | 75.5   | 73.0   | 68.5   | 69.8   | 69.8   | 70.5   | 71.0   | 72.8   | 76.1   | 76.1   | 76.1   | 76.1   | 76.1   | 76.1   | 76.1   | 76.1   | 76.1   | 76.1   |
| VEHICLE 75-4       | 125    | 69.7   | 70.8   | 72.3   | 70.8   | 72.1   | 71.3   | 71.3   | 74.3   | 74.3   | 76.7   | 76.7   | 76.7   | 76.7   | 76.7   | 76.7   | 76.7   | 76.7   | 76.7   | 76.7   |
| CONFIG NC-826      | 160    | 68.7   | 69.7   | 69.5   | 70.5   | 70.8   | 70.3   | 71.0   | 73.0   | 73.0   | 76.9   | 76.9   | 76.9   | 76.9   | 76.9   | 76.9   | 76.9   | 76.9   | 76.9   | 76.9   |
| LOC SCHEMECTADY    | 200    | 68.0   | 67.6   | 69.3   | 70.1   | 71.1   | 73.4   | 73.4   | 73.6   | 73.6   | 78.4   | 78.4   | 78.4   | 78.4   | 78.4   | 78.4   | 78.4   | 78.4   | 78.4   | 78.4   |
| DATE 01-28-75      | 250    | 70.3   | 71.1   | 72.3   | 73.1   | 73.8   | 73.3   | 75.6   | 75.6   | 76.4   | 77.9   | 77.9   | 77.9   | 77.9   | 77.9   | 77.9   | 77.9   | 77.9   | 77.9   | 77.9   |
| RDN 673            | 315    | 72.3   | 72.6   | 73.3   | 72.0   | 73.1   | 73.9   | 74.3   | 75.1   | 76.4   | 76.4   | 76.4   | 76.4   | 76.4   | 76.4   | 76.4   | 76.4   | 76.4   | 76.4   | 76.4   |
| TAPE 3i            | 400    | 70.7   | 71.7   | 72.0   | 71.8   | 71.9   | 72.9   | 74.2   | 74.2   | 74.9   | 77.1   | 77.1   | 77.1   | 77.1   | 77.1   | 77.1   | 77.1   | 77.1   | 77.1   | 77.1   |
| BAR 38.0 HG        | 500    | 68.6   | 68.9   | 72.2   | 70.9   | 71.9   | 72.9   | 74.6   | 75.2   | 76.7   | 77.0   | 77.0   | 77.0   | 77.0   | 77.0   | 77.0   | 77.0   | 77.0   | 77.0   | 77.0   |
| (0127) N/M2        | 630    | 70.2   | 70.0   | 70.9   | 73.6   | 74.9   | 75.6   | 77.3   | 78.1   | 79.1   | 79.4   | 79.4   | 79.4   | 79.4   | 79.4   | 79.4   | 79.4   | 79.4   | 79.4   | 79.4   |
| QAMB 48, DEG F     | 800    | 69.5   | 69.8   | 70.6   | 72.4   | 73.4   | 74.6   | 75.6   | 77.2   | 77.9   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   |
| (282, DEG K)       | 1000   | 69.7   | 70.0   | 70.3   | 71.6   | 73.3   | 74.8   | 76.0   | 77.1   | 78.0   | 78.2   | 78.2   | 78.2   | 78.2   | 78.2   | 78.2   | 78.2   | 78.2   | 78.2   | 78.2   |
| TRTY 42, DEG F     | 1250   | 69.5   | 69.5   | 70.9   | 70.9   | 72.1   | 73.8   | 75.1   | 76.9   | 78.4   | 78.3   | 78.3   | 78.3   | 78.3   | 78.3   | 78.3   | 78.3   | 78.3   | 78.3   | 78.3   |
| (270, DEG K)       | 1600   | 70.2   | 70.2   | 71.5   | 74.5   | 77.0   | 79.0   | 79.7   | 80.3   | 81.6   | 82.2   | 82.2   | 82.2   | 82.2   | 82.2   | 82.2   | 82.2   | 82.2   | 82.2   | 82.2   |
| HACT 5.26 G/M3     | 2000   | 66.3   | 66.8   | 67.6   | 69.4   | 70.3   | 70.5   | 71.8   | 72.7   | 74.9   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   |
| (.00526 KG/M3)     | 2500   | 66.0   | 66.9   | 67.2   | 69.6   | 70.8   | 72.0   | 71.7   | 72.1   | 72.9   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   |
| NFA 6202, RPM      | 3150   | 66.8   | 66.8   | 67.8   | 69.6   | 71.0   | 72.2   | 73.7   | 75.2   | 76.7   | 76.1   | 76.1   | 76.1   | 76.1   | 76.1   | 76.1   | 76.1   | 76.1   | 76.1   | 76.1   |
| ( 659, RAD/SEC)    | 4000   | 65.6   | 66.6   | 67.8   | 69.7   | 72.1   | 73.5   | 74.9   | 76.2   | 77.7   | 78.9   | 78.9   | 78.9   | 78.9   | 78.9   | 78.9   | 78.9   | 78.9   | 78.9   | 78.9   |
| NFA 6350, RPM      | 5000   | 66.3   | 66.6   | 67.8   | 70.6   | 72.3   | 75.2   | 78.4   | 81.7   | 82.5   | 80.6   | 80.6   | 80.6   | 80.6   | 80.6   | 80.6   | 80.6   | 80.6   | 80.6   | 80.6   |
| ( 665, RAD/SEC)    | 6300   | 67.2   | 68.6   | 69.9   | 71.9   | 74.3   | 77.5   | 80.9   | 83.4   | 86.1   | 82.7   | 82.7   | 82.7   | 82.7   | 82.7   | 82.7   | 82.7   | 82.7   | 82.7   | 82.7   |
| NFA 8823, RPM      | 8000   | 67.9   | 69.4   | 71.8   | 73.3   | 76.4   | 79.2   | 82.4   | 85.8   | 87.9   | 84.2   | 84.2   | 84.2   | 84.2   | 84.2   | 84.2   | 84.2   | 84.2   | 84.2   | 84.2   |
| ( 924, RAD/SEC)    | 10000  | 68.5   | 70.4   | 73.0   | 77.0   | 80.9   | 80.8   | 83.6   | 86.7   | 88.2   | 82.3   | 82.3   | 82.3   | 82.3   | 82.3   | 82.3   | 82.3   | 82.3   | 82.3   | 82.3   |
| NO. OF BLADES 15   | 12500  | 74.7   | 77.1   | 81.3   | 85.4   | 89.2   | 92.7   | 90.9   | 93.1   | 93.3   | 87.1   | 87.1   | 87.1   | 87.1   | 87.1   | 87.1   | 87.1   | 87.1   | 87.1   | 87.1   |
| FAN TIP SPEED      | 16000  | 70.3   | 72.6   | 75.0   | 81.0   | 84.2   | 85.7   | 89.0   | 91.8   | 90.9   | 84.2   | 84.2   | 84.2   | 84.2   | 84.2   | 84.2   | 84.2   | 84.2   | 84.2   | 84.2   |
| 348, FT/SEC        | 20000  | 68.5   | 71.0   | 73.3   | 77.8   | 80.0   | 83.2   | 86.0   | 87.2   | 92.3   | 86.6   | 86.6   | 86.6   | 86.6   | 86.6   | 86.6   | 86.6   | 86.6   | 86.6   | 86.6   |
|                    | 25000  | 67.2   | 69.0   | 68.0   | 71.7   | 76.1   | 78.9   | 82.8   | 86.1   | 88.2   | 83.2   | 83.2   | 83.2   | 83.2   | 83.2   | 83.2   | 83.2   | 83.2   | 83.2   | 83.2   |
|                    | 31500  | 67.4   | 68.1   | 68.6   | 71.6   | 74.7   | 77.4   | 80.9   | 84.2   | 86.3   | 80.1   | 80.1   | 80.1   | 80.1   | 80.1   | 80.1   | 80.1   | 80.1   | 80.1   | 80.1   |
|                    | 40000  | 67.9   | 68.7   | 67.9   | 69.5   | 73.2   | 76.3   | 79.5   | 81.4   | 83.8   | 79.3   | 79.3   | 79.3   | 79.3   | 79.3   | 79.3   | 79.3   | 79.3   | 79.3   | 79.3   |
|                    | 50000  | 68.0   | 67.9   | 69.4   | 69.6   | 68.1   | 70.5   | 73.8   | 75.3   | 77.1   | 73.1   | 73.1   | 73.1   | 73.1   | 73.1   | 73.1   | 73.1   | 73.1   | 73.1   | 73.1   |
|                    | 63000  | 66.8   | 65.5   | 62.8   | 62.0   | 63.8   | 63.9   | 66.6   | 67.2   | 67.7   | 64.6   | 64.6   | 64.6   | 64.6   | 64.6   | 64.6   | 64.6   | 64.6   | 64.6   | 64.6   |
|                    | 80000  | 68.3   | 68.3   | 65.8   | 64.8   | 64.5   | 64.5   | 65.5   | 64.9   | 63.9   | 63.2   | 63.2   | 63.2   | 63.2   | 63.2   | 63.2   | 63.2   | 63.2   | 63.2   | 63.2   |
| OVERALL MEASURED   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |        | 64.0   | 68.0   | 67.0   | 68.7   | 68.5   | 64.0   | 66.0   | 68.2   | 64.5   | 68.2   | 68.2   | 68.2   | 68.2   | 68.2   | 68.2   | 68.2   | 68.2   | 68.2   | 68.2   |
| PNDB               |        | 93.6   | 94.0   | 99.2   | 96.7   | 98.5   | 100.4  | 102.7  | 100.7  | 100.9  | 104.0  | 104.0  | 104.0  | 104.0  | 104.0  | 104.0  | 104.0  | 104.0  | 104.0  | 104.0  |

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ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ: (6.92)(14.08)(21.24)(28.41)(35.58)(42.76)(49.94)(57.13)(64.32)(71.52)(78.73)(85.94)(93.15)(100.36)(107.57)(114.78)(122.00)(129.21)(136.42)(143.63)(150.84)

|                             |       |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|
| SIDELINE 200 FT             | 80    | 93.0 | 59.3 | 55.7 | 50.6 | 37.2 | 55.3 | 53.1 | 50.0 | 51.4 | 49.4 | 49.0 |
| (60.96 M)                   | 100   | 49.0 | 52.7 | 50.1 | 47.8 | 16.2 | 48.0 | 48.2 | 48.0 | 48.4 | 49.6 | 49.7 |
| VEHICLE 75-4                | 125   | 45.9 | 48.0 | 50.1 | 49.8 | 50.4 | 49.9 | 49.8 | 51.2 | 50.8 | 50.8 | 49.8 |
| CONFIG NC-026               | 160   | 44.0 | 49.8 | 47.3 | 48.7 | 49.0 | 48.4 | 49.4 | 49.8 | 50.7 | 50.8 | 49.8 |
| LOC SCHENECTADY             | 200   | 44.0 | 44.6 | 47.0 | 48.2 | 49.3 | 51.4 | 51.1 | 52.3 | 52.1 | 51.3 | 50.4 |
| DATE 01-28-75               | 250   | 46.4 | 48.0 | 49.9 | 51.1 | 52.0 | 51.3 | 53.1 | 52.4 | 51.9 | 50.8 | 48.9 |
| RQN 673                     | 315   | 48.1 | 49.4 | 50.9 | 50.9 | 51.1 | 51.7 | 51.7 | 51.6 | 51.9 | 49.7 | 47.5 |
| TAPE 31                     | 400   | 46.1 | 47.4 | 49.4 | 49.6 | 50.0 | 50.5 | 51.5 | 51.6 | 51.7 | 49.7 | 47.6 |
| BAR 30.0 HG                 | 500   | 44.2 | 45.5 | 49.5 | 48.7 | 49.8 | 50.6 | 51.8 | 51.5 | 51.5 | 49.4 | 46.8 |
| (3127.3 N/HZ)               | 630   | 43.7 | 46.5 | 54.0 | 51.2 | 52.3 | 53.2 | 54.4 | 54.4 | 53.7 | 50.7 | 45.7 |
| YAMB 48, DEG F              | 800   | 44.9 | 46.2 | 47.7 | 49.9 | 51.8 | 52.1 | 52.5 | 53.2 | 52.4 | 49.8 | 43.9 |
| (282, DEG K)                | 1000  | 44.9 | 46.3 | 47.3 | 49.8 | 50.8 | 51.4 | 52.8 | 53.8 | 53.2 | 50.8 | 43.8 |
| THET 42, DEG F              | 1250  | 44.5 | 45.9 | 47.7 | 48.2 | 49.5 | 51.1 | 51.8 | 52.6 | 52.6 | 49.9 | 42.2 |
| (279, DEG K)                | 1600  | 44.7 | 46.1 | 48.1 | 51.6 | 54.2 | 56.0 | 56.2 | 55.8 | 55.5 | 53.4 | 43.4 |
| MACT 5.26 G/M <sup>3</sup>  | 2000  | 40.9 | 42.9 | 44.0 | 46.3 | 47.1 | 47.4 | 48.1 | 47.9 | 48.6 | 44.7 | 38.9 |
| (.00524 KG/M <sup>3</sup> ) | 2500  | 40.3 | 42.0 | 43.8 | 46.3 | 47.7 | 48.7 | 47.8 | 48.2 | 48.3 | 42.4 | 37.5 |
| NFA 6292, RPM               | 3150  | 40.8 | 42.3 | 43.8 | 45.9 | 48.4 | 49.6 | 49.5 | 48.9 | 51.7 | 48.2 | 38.8 |
| (659, RAD/SEC)              | 4000  | 39.0 | 41.3 | 43.3 | 45.7 | 48.3 | 49.5 | 50.3 | 52.9 | 54.2 | 48.3 | 38.4 |
| NFK 6359, RPM               | 5000  | 39.3 | 41.0 | 43.1 | 46.2 | 48.3 | 50.9 | 53.8 | 55.6 | 54.6 | 49.6 | 38.8 |
| (665, RAD/SEC)              | 6300  | 39.5 | 42.3 | 44.3 | 46.9 | 49.5 | 52.5 | 55.3 | 56.5 | 57.2 | 50.4 | 38.1 |
| NFD 8823, RPM               | 8000  | 38.5 | 41.8 | 44.6 | 47.3 | 50.6 | 53.1 | 55.6 | 57.6 | 57.1 | 50.8 | 39.8 |
| (924, RAD/SEC)              | 10000 | 37.5 | 41.0 | 44.9 | 49.4 | 51.6 | 53.2 | 55.1 | 56.7 | 56.6 | 49.4 | 31.2 |
| NO. OF BLADES 19            | 12500 | 40.8 | 49.2 | 50.8 | 55.6 | 59.6 | 61.8 | 60.1 | 60.5 | 57.7 | 46.3 | 31.3 |
| FAN TIP SPEED 14000         | 16000 | 41.8 | 38.6 | 41.5 | 43.4 | 51.1 | 53.2 | 54.3 | 54.1 | 50.3 | 36.9 | 19.9 |
| 948, FT/SEC                 | 20000 | 43.9 | 29.5 | 33.9 | 36.7 | 42.2 | 44.9 | 46.2 | 46.6 | 39.9 | 29.9 | 4.7  |
|                             | 25000 | 43.9 | 19.7 | 22.2 | 26.6 | 31.4 | 33.7 | 35.7 | 35.3 | 31.4 | 15.3 |      |
|                             | 31500 | 1.3  | 1.9  | 18.9 | 16.4 | 20.1 | 22.9 | 23.1 | 21.7 | 18.6 |      |      |
|                             | 40000 |      |      |      |      | 3.8  | 3.9  | 3.7  | 2.2  |      |      |      |
|                             | 50000 |      |      |      |      |      |      |      |      |      |      |      |
|                             | 63000 |      |      |      |      |      |      |      |      |      |      |      |
|                             | 80000 |      |      |      |      |      |      |      |      |      |      |      |
| OVERALL CALCULATED          |       | 59.8 | 68.8 | 62.8 | 61.4 | 65.6 | 67.0 | 67.3 | 67.8 | 67.2 | 69.2 | 69.3 |
| PNDR                        |       | 67.3 | 68.8 | 75.8 | 73.8 | 79.8 | 78.6 | 77.8 | 78.7 | 78.0 | 83.9 | 84.8 |

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ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ. (6.92)(1.08)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(3.0)(3.6)(4.0)(4.6)(5.0)(5.6)(6.0)(6.6)(7.0)

|                    | 59    | 62      | 71      | 81      | 91      | 101     | 111     | 122     | 133     | 145     | 156     | 166     | 180     | 200     | 225     | 260     | 300     | 360     | 450     |
|--------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| SIDELINE 200 FT    | 80    | 83.5    | 89.3    | 95.7    | 101.8   | 107.7   | 113.5   | 119.2   | 124.9   | 130.6   | 136.3   | 142.0   | 147.7   | 153.4   | 159.1   | 164.8   | 170.5   | 176.2   | 181.9   |
| ( 60.96 M)         | 100   | 103.7   | 109.7   | 116.1   | 122.2   | 128.1   | 133.9   | 139.6   | 145.3   | 151.0   | 156.7   | 162.4   | 168.1   | 173.8   | 179.5   | 185.2   | 190.9   | 196.6   | 202.3   |
| VEHICLE 79-4       | 125   | 129.7   | 135.7   | 142.1   | 148.2   | 154.1   | 160.0   | 165.8   | 171.6   | 177.4   | 183.2   | 189.0   | 194.8   | 200.6   | 206.4   | 212.2   | 218.0   | 223.8   | 229.6   |
| CCNFIO NC-026      | 160   | 164.3   | 170.3   | 176.7   | 182.8   | 188.7   | 194.6   | 200.4   | 206.2   | 212.0   | 217.8   | 223.6   | 229.4   | 235.2   | 241.0   | 246.8   | 252.6   | 258.4   | 264.2   |
| LCC SCHENECTADY    | 200   | 204.8   | 210.8   | 217.2   | 223.3   | 229.2   | 235.1   | 240.9   | 246.7   | 252.5   | 258.3   | 264.1   | 270.0   | 275.8   | 281.6   | 287.4   | 293.2   | 299.0   | 304.8   |
| DATE 01-28-75      | 250   | 254.2   | 260.2   | 266.6   | 272.7   | 278.6   | 284.4   | 290.2   | 296.0   | 301.8   | 307.6   | 313.4   | 319.2   | 325.0   | 330.8   | 336.6   | 342.4   | 348.2   | 354.0   |
| RUN 674            | 315   | 319.3   | 325.4   | 331.8   | 337.9   | 343.8   | 349.6   | 355.4   | 361.2   | 367.0   | 372.8   | 378.6   | 384.4   | 390.2   | 396.0   | 401.8   | 407.6   | 413.4   | 419.2   |
| TAPE 31            | 480   | 484.0   | 490.0   | 496.4   | 502.5   | 508.4   | 514.2   | 520.0   | 525.8   | 531.6   | 537.4   | 543.2   | 549.0   | 554.8   | 560.6   | 566.4   | 572.2   | 578.0   | 583.8   |
| BAR 38.8 HG        | 500   | 504.7   | 510.7   | 517.1   | 523.2   | 529.1   | 534.9   | 540.7   | 546.5   | 552.3   | 558.1   | 563.9   | 569.7   | 575.5   | 581.3   | 587.1   | 592.9   | 598.7   | 604.5   |
| (01272, N/M2)      | 630   | 634.2   | 640.2   | 646.6   | 652.7   | 658.6   | 664.4   | 670.2   | 676.0   | 681.8   | 687.6   | 693.4   | 699.2   | 705.0   | 710.8   | 716.6   | 722.4   | 728.2   | 734.0   |
| YAMB 40, DEG F     | 800   | 804.8   | 810.8   | 817.2   | 823.3   | 829.2   | 835.0   | 840.8   | 846.6   | 852.4   | 858.2   | 864.0   | 869.8   | 875.6   | 881.4   | 887.2   | 893.0   | 898.8   | 904.6   |
| (282, DEG K)       | 1000  | 1004.1  | 1010.1  | 1016.5  | 1022.6  | 1028.4  | 1034.2  | 1040.0  | 1045.8  | 1051.6  | 1057.4  | 1063.2  | 1069.0  | 1074.8  | 1080.6  | 1086.4  | 1092.2  | 1098.0  | 1103.8  |
| THEY 41, DEG F     | 1250  | 1254.8  | 1260.8  | 1267.2  | 1273.3  | 1279.2  | 1285.0  | 1290.8  | 1296.6  | 1302.4  | 1308.2  | 1314.0  | 1319.8  | 1325.6  | 1331.4  | 1337.2  | 1343.0  | 1348.8  | 1354.6  |
| (270, DEG K)       | 1600  | 1604.7  | 1610.7  | 1617.1  | 1623.2  | 1629.1  | 1634.9  | 1640.7  | 1646.5  | 1652.3  | 1658.1  | 1663.9  | 1669.7  | 1675.5  | 1681.3  | 1687.1  | 1692.9  | 1698.7  | 1704.5  |
| MACY 4.70 GM/M3    | 2000  | 2004.1  | 2010.1  | 2016.5  | 2022.6  | 2028.4  | 2034.2  | 2040.0  | 2045.8  | 2051.6  | 2057.4  | 2063.2  | 2069.0  | 2074.8  | 2080.6  | 2086.4  | 2092.2  | 2098.0  | 2103.8  |
| (.00470, KG/M3)    | 2500  | 2504.6  | 2510.6  | 2517.0  | 2523.1  | 2528.9  | 2534.7  | 2540.5  | 2546.3  | 2552.1  | 2557.9  | 2563.7  | 2569.5  | 2575.3  | 2581.1  | 2586.9  | 2592.7  | 2598.5  | 2604.3  |
| NFA 700 RPM        | 3150  | 3154.3  | 3160.3  | 3166.7  | 3172.8  | 3178.6  | 3184.4  | 3190.2  | 3196.0  | 3201.8  | 3207.6  | 3213.4  | 3219.2  | 3225.0  | 3230.8  | 3236.6  | 3242.4  | 3248.2  | 3254.0  |
| ( 740, RAD/SEC)    | 4000  | 4004.0  | 4010.0  | 4016.4  | 4022.5  | 4028.4  | 4034.2  | 4040.0  | 4045.8  | 4051.6  | 4057.4  | 4063.2  | 4069.0  | 4074.8  | 4080.6  | 4086.4  | 4092.2  | 4098.0  | 4103.8  |
| NFK 7144 RPM       | 5000  | 5004.2  | 5010.2  | 5016.6  | 5022.7  | 5028.5  | 5034.3  | 5040.1  | 5045.9  | 5051.7  | 5057.5  | 5063.3  | 5069.1  | 5074.9  | 5080.7  | 5086.5  | 5092.3  | 5098.1  | 5103.9  |
| ( 740, RAD/SEC)    | 6300  | 6304.8  | 6310.8  | 6317.2  | 6323.3  | 6329.2  | 6335.0  | 6340.8  | 6346.6  | 6352.4  | 6358.2  | 6364.0  | 6369.8  | 6375.6  | 6381.4  | 6387.2  | 6393.0  | 6398.8  | 6404.6  |
| NPD 8823 RPM       | 8000  | 8004.6  | 8010.6  | 8017.0  | 8023.1  | 8028.9  | 8034.7  | 8040.5  | 8046.3  | 8052.1  | 8057.9  | 8063.7  | 8069.5  | 8075.3  | 8081.1  | 8086.9  | 8092.7  | 8098.5  | 8104.3  |
| ( 924, RAD/SEC)    | 10000 | 10004.9 | 10010.9 | 10017.3 | 10023.4 | 10029.2 | 10035.0 | 10040.8 | 10046.6 | 10052.4 | 10058.2 | 10064.0 | 10069.8 | 10075.6 | 10081.4 | 10087.2 | 10093.0 | 10098.8 | 10104.6 |
| NC OF BLADES 15    | 12500 | 12504.9 | 12510.9 | 12517.3 | 12523.4 | 12529.2 | 12535.0 | 12540.8 | 12546.6 | 12552.4 | 12558.2 | 12564.0 | 12569.8 | 12575.6 | 12581.4 | 12587.2 | 12593.0 | 12598.8 | 12604.6 |
| FAN TIP SPEED      | 15000 | 15004.9 | 15010.9 | 15017.3 | 15023.4 | 15029.2 | 15035.0 | 15040.8 | 15046.6 | 15052.4 | 15058.2 | 15064.0 | 15069.8 | 15075.6 | 15081.4 | 15087.2 | 15093.0 | 15098.8 | 15104.6 |
| 617, FT/SEC        | 20000 | 20004.9 | 20010.9 | 20017.3 | 20023.4 | 20029.2 | 20035.0 | 20040.8 | 20046.6 | 20052.4 | 20058.2 | 20064.0 | 20069.8 | 20075.6 | 20081.4 | 20087.2 | 20093.0 | 20098.8 | 20104.6 |
|                    | 25000 | 25004.9 | 25010.9 | 25017.3 | 25023.4 | 25029.2 | 25035.0 | 25040.8 | 25046.6 | 25052.4 | 25058.2 | 25064.0 | 25069.8 | 25075.6 | 25081.4 | 25087.2 | 25093.0 | 25098.8 | 25104.6 |
|                    | 31500 | 31504.9 | 31510.9 | 31517.3 | 31523.4 | 31529.2 | 31535.0 | 31540.8 | 31546.6 | 31552.4 | 31558.2 | 31564.0 | 31569.8 | 31575.6 | 31581.4 | 31587.2 | 31593.0 | 31598.8 | 31604.6 |
|                    | 40000 | 40004.9 | 40010.9 | 40017.3 | 40023.4 | 40029.2 | 40035.0 | 40040.8 | 40046.6 | 40052.4 | 40058.2 | 40064.0 | 40069.8 | 40075.6 | 40081.4 | 40087.2 | 40093.0 | 40098.8 | 40104.6 |
|                    | 50000 | 50004.9 | 50010.9 | 50017.3 | 50023.4 | 50029.2 | 50035.0 | 50040.8 | 50046.6 | 50052.4 | 50058.2 | 50064.0 | 50069.8 | 50075.6 | 50081.4 | 50087.2 | 50093.0 | 50098.8 | 50104.6 |
|                    | 63000 | 63004.9 | 63010.9 | 63017.3 | 63023.4 | 63029.2 | 63035.0 | 63040.8 | 63046.6 | 63052.4 | 63058.2 | 63064.0 | 63069.8 | 63075.6 | 63081.4 | 63087.2 | 63093.0 | 63098.8 | 63104.6 |
|                    | 80000 | 80004.9 | 80010.9 | 80017.3 | 80023.4 | 80029.2 | 80035.0 | 80040.8 | 80046.6 | 80052.4 | 80058.2 | 80064.0 | 80069.8 | 80075.6 | 80081.4 | 80087.2 | 80093.0 | 80098.8 | 80104.6 |
| OVERALL CALCULATED |       | 61.2    | 63.3    | 64.6    | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    | 64.8    |
| PND0               |       | 89.9    | 75.9    | 75.6    | 75.8    | 77.4    | 78.7    | 80.6    | 81.5    | 82.2    | 82.7    | 83.0    | 83.2    | 83.3    | 83.4    | 83.5    | 83.6    | 83.7    | 83.8    |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (50, DEG; F; 70 PERCENT REL. HOB, DAY)  
 PROC. DATE - MONTH 3 DAY 12 MR. 12, 73  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | FREQ. | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 168   | 180    | 192    | 204    | PWL   |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|-------|
|                    |       | (0.92) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.0) | (3.27) | (3.54) | (3.82) |       |
| RADIAL 17' FT.     | 50    | 80     | 76.9   | 77.4   | 77.5   | 80.0   | 77.7   | 77.0   | 76.2   | 75.2   | 76.7   | 81.6   | 85.7  | 82.3   | 82.3   | 82.3   | 82.3  |
| ( 5' H.)           | 100   | 85.4   | 78.2   | 72.0   | 72.5   | 73.0   | 74.0   | 74.0   | 74.3   | 75.0   | 78.0   | 82.4   | 87.0  | 82.3   | 82.3   | 82.3   | 82.3  |
| VEHICLE 75-4       | 125   | 75.0   | 78.5   | 78.6   | 75.0   | 76.0   | 76.6   | 78.1   | 79.0   | 81.3   | 83.4   | 87.0   | 87.0  | 82.3   | 84.1   | 87.0   | 87.0  |
| CONFIG NC-024      | 150   | 74.9   | 75.5   | 75.3   | 78.0   | 78.0   | 78.0   | 78.0   | 78.0   | 79.0   | 82.3   | 84.1   | 87.0  | 82.3   | 84.1   | 87.0   | 87.0  |
| LOC SCHENECTADY    | 200   | 73.5   | 74.1   | 73.8   | 75.1   | 76.9   | 76.6   | 79.3   | 81.4   | 83.4   | 85.4   | 88.3   | 88.3  | 82.3   | 84.1   | 87.0   | 87.0  |
| DATE 01-28-73      | 250   | 78.9   | 78.8   | 80.3   | 80.8   | 81.4   | 82.3   | 83.6   | 84.0   | 85.6   | 86.7   | 88.0   | 88.0  | 82.3   | 84.1   | 87.0   | 87.0  |
| RUN 675            | 315   | 78.0   | 78.6   | 78.6   | 79.3   | 79.4   | 80.3   | 80.6   | 81.6   | 82.1   | 84.4   | 86.0   | 86.0  | 82.3   | 84.1   | 87.0   | 87.0  |
| TAPE 31            | 400   | 77.2   | 77.0   | 77.5   | 78.3   | 78.3   | 79.3   | 79.3   | 80.5   | 81.5   | 82.5   | 84.1   | 85.0  | 82.3   | 84.1   | 87.0   | 87.0  |
| BAR 30.0 HG        | 500   | 75.1   | 74.9   | 75.7   | 76.9   | 77.4   | 78.7   | 80.6   | 81.4   | 82.2   | 84.0   | 85.1   | 85.1  | 82.3   | 84.1   | 87.0   | 87.0  |
| (012.2) 4/M2)      | 630   | 75.2   | 75.3   | 76.4   | 78.3   | 78.3   | 80.3   | 82.3   | 83.1   | 83.9   | 84.4   | 84.4   | 84.4  | 82.3   | 84.1   | 87.0   | 87.0  |
| YANG 47 DEG F      | 800   | 75.3   | 75.8   | 76.4   | 77.4   | 78.9   | 80.1   | 81.6   | 82.4   | 83.4   | 83.2   | 83.5   | 83.5  | 82.3   | 84.1   | 87.0   | 87.0  |
| (201, DEG K)       | 1000  | 74.7   | 74.8   | 75.6   | 76.6   | 78.3   | 79.5   | 81.0   | 82.4   | 82.9   | 82.4   | 82.5   | 82.5  | 82.3   | 84.1   | 87.0   | 87.0  |
| THET 41 DEG F      | 1250  | 74.3   | 73.8   | 75.4   | 76.9   | 77.9   | 79.4   | 80.6   | 81.9   | 82.9   | 82.3   | 81.8   | 81.8  | 82.3   | 84.1   | 87.0   | 87.0  |
| (278, DEG K)       | 1400  | 73.7   | 74.0   | 75.5   | 76.3   | 77.5   | 78.7   | 79.7   | 80.8   | 82.0   | 81.7   | 81.1   | 81.1  | 82.3   | 84.1   | 87.0   | 87.0  |
| WACT 5.06 GM/M3    | 2000  | 74.0   | 74.3   | 76.1   | 77.9   | 78.0   | 79.3   | 80.3   | 83.4   | 83.4   | 82.1   | 80.5   | 80.5  | 82.3   | 84.1   | 87.0   | 87.0  |
| (.00500, KG/M3)    | 2500  | 72.5   | 74.8   | 73.5   | 75.6   | 77.1   | 77.2   | 78.2   | 78.6   | 81.4   | 79.3   | 78.9   | 78.9  | 82.3   | 84.1   | 87.0   | 87.0  |
| NFA 7840 RPM       | 3150  | 71.5   | 72.3   | 73.0   | 75.2   | 77.1   | 78.7   | 78.0   | 79.4   | 82.2   | 79.6   | 78.4   | 78.4  | 82.3   | 84.1   | 87.0   | 87.0  |
| ( 821, RAD/SEC)    | 4000  | 72.3   | 72.9   | 74.1   | 76.9   | 78.8   | 79.5   | 81.7   | 85.2   | 85.2   | 83.9   | 80.2   | 80.2  | 82.3   | 84.1   | 87.0   | 87.0  |
| NFK 7932 RPM       | 5000  | 71.1   | 71.9   | 73.6   | 76.2   | 78.1   | 80.2   | 82.9   | 85.4   | 87.8   | 83.6   | 79.7   | 79.7  | 82.3   | 84.1   | 87.0   | 87.0  |
| ( 831, RAD/SEC)    | 6300  | 72.0   | 73.9   | 75.9   | 77.0   | 79.0   | 83.5   | 86.7   | 88.9   | 92.6   | 86.2   | 80.3   | 80.3  | 82.3   | 84.1   | 87.0   | 87.0  |
| NPD 8823 RPM       | 8000  | 72.9   | 74.6   | 76.2   | 78.8   | 81.2   | 84.5   | 88.2   | 91.8   | 94.6   | 87.7   | 81.8   | 81.8  | 82.3   | 84.1   | 87.0   | 87.0  |
| ( 924, RAD/SEC)    | 10000 | 71.8   | 73.9   | 76.1   | 79.0   | 81.2   | 85.0   | 88.6   | 91.8   | 92.2   | 84.6   | 78.6   | 78.6  | 82.3   | 84.1   | 87.0   | 87.0  |
| NO. OF BLADES - 13 | 12500 | 74.0   | 76.3   | 78.1   | 82.7   | 85.4   | 88.2   | 91.9   | 91.4   | 94.6   | 87.6   | 81.5   | 81.5  | 82.3   | 84.1   | 87.0   | 87.0  |
| FAN TIP SPEED      | 16000 | 73.6   | 78.4   | 80.6   | 84.5   | 86.7   | 88.7   | 92.0   | 95.0   | 94.5   | 87.0   | 81.5   | 81.5  | 82.3   | 84.1   | 87.0   | 87.0  |
| ( 884, FT/SEC)     | 20000 | 74.1   | 77.8   | 81.6   | 84.3   | 87.6   | 90.7   | 93.4   | 96.2   | 96.6   | 89.7   | 82.8   | 82.8  | 82.3   | 84.1   | 87.0   | 87.0  |
|                    | 25000 | 72.3   | 74.5   | 78.1   | 81.0   | 84.9   | 88.2   | 92.1   | 94.4   | 95.5   | 89.5   | 81.7   | 81.7  | 82.3   | 84.1   | 87.0   | 87.0  |
|                    | 31500 | 70.3   | 73.8   | 76.2   | 79.8   | 83.1   | 86.6   | 89.9   | 92.9   | 93.8   | 86.8   | 79.4   | 79.4  | 82.3   | 84.1   | 87.0   | 87.0  |
|                    | 40000 | 70.3   | 73.4   | 74.0   | 77.2   | 80.6   | 84.0   | 87.6   | 89.0   | 90.7   | 85.0   | 76.0   | 76.0  | 82.3   | 84.1   | 87.0   | 87.0  |
|                    | 50000 | 68.1   | 68.5   | 68.8   | 71.4   | 74.6   | 77.6   | 81.7   | 82.4   | 83.5   | 79.2   | 76.0   | 76.0  | 82.3   | 84.1   | 87.0   | 87.0  |
|                    | 63000 | 65.3   | 66.0   | 63.6   | 64.5   | 66.7   | 67.9   | 71.9   | 74.0   | 74.0   | 68.9   | 63.3   | 63.3  | 82.3   | 84.1   | 87.0   | 87.0  |
|                    | 80000 | 67.9   | 67.9   | 69.4   | 64.4   | 64.2   | 64.5   | 65.8   | 64.6   | 64.3   | 62.0   | 62.0   | 62.0  | 82.3   | 84.1   | 87.0   | 87.0  |
| OVERALL MEASURED   |       |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| OVERALL CALCULATED |       | 88.9   | 88.0   | 84.5   | 83.9   | 80.6   | 80.0   | 81.0   | 80.5   | 80.8   | 80.7   | 80.5   | 80.5  | 80.5   | 80.5   | 80.5   | 80.5  |
| PWSS               |       | 98.9   | 98.4   | 100.0  | 100.6  | 104.1  | 100.9  | 100.2  | 100.2  | 100.2  | 100.2  | 100.2  | 100.2 | 100.2  | 100.2  | 100.2  | 100.2 |

NOISE CONTROL CENTER INC.

ORIGINAL PAGE IS  
OF POOR QUALITY

MODEL 53000 PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. H<sub>2</sub>O, DAY)

PROC. DATE - MONTH, 3 DAY 12, NR. 12, 3

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                           | 53 (0.92) | 62 (1.08) | 71 (1.24) | 81 (1.41) | 91 (1.58) | 101 (1.76) | 111 (1.94) | 122 (2.13) | 133 (2.32) | 145 (2.52) | 156 (2.73) | 167 (2.93) | 178 (3.13) | 189 (3.33) | 200 (3.53) |
|---------------------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| SIDELINE 200' FT          | 50        | 53.3      | 54.8      | 55.4      | 56.3      | 56.2       | 55.3       | 54.1       | 53.2       | 52.4       | 51.1       | 50.8       | 50.1       | 49.4       | 48.8       |
| ( 60.98 M)                | 80        | 44.7      | 48.3      | 49.9      | 50.8      | 51.4       | 52.3       | 52.3       | 52.0       | 51.4       | 50.1       | 49.8       | 49.1       | 48.4       | 47.8       |
| VEHICLE 75-4              | 100       | 51.2      | 53.7      | 54.4      | 54.0      | 55.2       | 54.8       | 55.8       | 55.7       | 56.8       | 56.7       | 56.8       | 56.7       | 56.5       | 56.5       |
| CONFIG NC-026             | 125       | 51.0      | 52.6      | 53.0      | 54.2      | 54.3       | 54.1       | 55.9       | 56.5       | 57.7       | 57.3       | 56.5       | 56.8       | 56.5       | 56.8       |
| LOC SCHEMECTACY           | 160       | 48.3      | 50.1      | 51.5      | 53.2      | 55.1       | 56.6       | 56.9       | 56.0       | 58.6       | 58.5       | 57.6       | 57.6       | 57.6       | 57.6       |
| DATE 01-23-75             | 200       | 54.4      | 55.7      | 57.0      | 58.0      | 59.7       | 60.3       | 61.1       | 61.4       | 60.8       | 60.6       | 59.6       | 59.2       | 59.0       | 59.0       |
| RUN 675                   | 250       | 31.5      | 33.8      | 35.4      | 36.1      | 37.0       | 37.4       | 38.0       | 38.0       | 38.2       | 38.2       | 37.2       | 37.2       | 37.2       | 37.2       |
| TAPE 31                   | 400       | 50.7      | 51.5      | 53.0      | 54.7      | 55.3       | 56.3       | 57.8       | 57.7       | 58.2       | 58.2       | 57.2       | 57.2       | 57.2       | 57.2       |
| BAR 30.0 HG               | 500       | 50.7      | 51.5      | 53.0      | 54.7      | 55.3       | 56.3       | 57.8       | 57.7       | 58.2       | 58.2       | 57.2       | 57.2       | 57.2       | 57.2       |
| (01272, N/M2)             | 600       | 50.7      | 51.5      | 53.0      | 54.7      | 55.3       | 56.3       | 57.8       | 57.7       | 58.2       | 58.2       | 57.2       | 57.2       | 57.2       | 57.2       |
| PANS 47, DEG F            | 800       | 50.7      | 51.5      | 53.0      | 54.7      | 55.3       | 56.3       | 57.8       | 57.7       | 58.2       | 58.2       | 57.2       | 57.2       | 57.2       | 57.2       |
| (281, DEG K)              | 1000      | 50.7      | 51.5      | 53.0      | 54.7      | 55.3       | 56.3       | 57.8       | 57.7       | 58.2       | 58.2       | 57.2       | 57.2       | 57.2       | 57.2       |
| YNET 41, DEG F            | 1250      | 49.3      | 49.9      | 52.2      | 54.2      | 55.3       | 56.6       | 57.3       | 57.1       | 57.1       | 57.1       | 56.0       | 56.0       | 56.0       | 56.0       |
| (273, DEG K)              | 1600      | 45.4      | 49.9      | 52.1      | 53.4      | 54.7       | 55.7       | 56.2       | 56.3       | 56.7       | 56.7       | 55.9       | 55.9       | 55.9       | 55.9       |
| HACT 5.00 GM/M3           | 2000      | 49.3      | 50.3      | 52.5      | 54.8      | 55.9       | 56.2       | 56.6       | 56.7       | 56.8       | 56.8       | 55.9       | 55.9       | 55.9       | 55.9       |
| (.00500, KG/M3)           | 2500      | 46.8      | 48.3      | 49.8      | 52.3      | 53.9       | 55.9       | 54.3       | 53.7       | 54.8       | 49.9       | 44.7       | 44.7       | 44.7       | 44.7       |
| NPA 7840, RPM             | 3150      | 45.5      | 47.5      | 49.8      | 51.6      | 53.7       | 55.2       | 56.8       | 56.2       | 56.2       | 49.8       | 43.5       | 43.5       | 43.5       | 43.5       |
| ( 821, RAD/SEC)           | 4000      | 45.9      | 47.6      | 49.6      | 51.0      | 53.0       | 55.0       | 57.1       | 56.6       | 56.6       | 51.7       | 43.3       | 43.3       | 43.3       | 43.3       |
| NPK 7632, RPM             | 5000      | 44.2      | 48.3      | 48.9      | 52.0      | 54.0       | 56.0       | 58.1       | 57.4       | 57.0       | 52.6       | 43.9       | 43.9       | 43.9       | 43.9       |
| ( 831, RAD/SEC)           | 6300      | 45.0      | 47.5      | 50.4      | 52.7      | 54.8       | 56.3       | 58.4       | 61.0       | 62.0       | 63.7       | 54.0       | 41.9       | 41.9       | 41.9       |
| NFD 8823, RPM             | 8000      | 43.8      | 47.0      | 47.6      | 52.8      | 55.4       | 58.4       | 61.4       | 63.1       | 63.6       | 63.6       | 53.5       | 40.6       | 40.6       | 40.6       |
| ( 924, RAD/SEC)           | 10000     | 40.7      | 44.6      | 47.9      | 51.5      | 53.9       | 56.2       | 60.2       | 61.0       | 61.8       | 59.6       | 47.7       | 34.2       | 34.2       | 34.2       |
| NO. OF BLADES 15          | 12500     | 40.3      | 44.5      | 48.6      | 52.9      | 55.9       | 58.4       | 61.2       | 61.8       | 61.8       | 59.0       | 46.8       | 38.6       | 38.6       | 38.6       |
| PAN TIP SPEED 684, FT/SEC | 16000     | 35.8      | 48.4      | 46.0      | 50.6      | 58.6       | 59.2       | 57.3       | 58.1       | 58.1       | 59.9       | 59.7       | 21.2       | 21.2       | 21.2       |
|                           | 20000     | 29.4      | 38.3      | 42.2      | 46.0      | 49.7       | 52.4       | 53.8       | 53.8       | 53.8       | 49.3       | 33.9       | 10.0       | 10.0       | 10.0       |
|                           | 25000     | 29.0      | 29.3      | 31.9      | 35.9      | 40.2       | 43.0       | 45.0       | 43.8       | 43.8       | 38.7       | 21.6       | 21.6       | 21.6       | 21.6       |
|                           | 31500     | 4.3       | 13.2      | 18.1      | 24.6      | 28.6       | 31.2       | 32.1       | 32.1       | 32.1       | 23.6       | 1.2        | 1.2        | 1.2        | 1.2        |
|                           | 40000     |           |           |           |           |            |            |            |            |            |            |            |            |            |            |
|                           | 50000     |           |           |           |           |            |            |            |            |            |            |            |            |            |            |
|                           | 63000     |           |           |           |           |            |            |            |            |            |            |            |            |            |            |
|                           | 80000     |           |           |           |           |            |            |            |            |            |            |            |            |            |            |
| OVERALL CALCULATED        |           | 63.5      | 64.9      | 66.5      | 68.3      | 69.4       | 70.6       | 72.0       | 72.7       | 72.8       | 68.8       | 66.8       |            |            |            |
| PNDB                      |           | 72.8      | 76.3      | 78.4      | 78.8      | 80.4       | 81.8       | 83.4       | 84.2       | 85.2       | 79.8       | 72.6       |            |            |            |



810

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (99. DEG. F, 70 PERCENT REL. HUM, DAY)

PROC. DATE - MONTH 3 DAY 18 HR. 12.3

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.               | ANGLE  |        |        |       |        |       |        |        |        |        | PWL    |       |       |       |       |       |       |
|---------------------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
|                     | 93     | 82     | 71     | 61    | 51     | 41    | 31     | 21     | 11     | 0      |        |       |       |       |       |       |       |
|                     | (0.92) | (1.68) | (1.24) | (1.4) | (1.58) | (1.7) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) |
| 80                  |        |        |        |       |        |       |        |        |        |        |        |       |       |       |       |       |       |
| 83                  |        |        |        |       |        |       |        |        |        |        |        |       |       |       |       |       |       |
| RADIAL 17, FT.      | 76.8   | 77.4   | 77.9   | 80.8  | 78.0   | 77.2  | 76.5   | 75.9   | 76.8   | 81.1   | 85.4   |       |       |       |       |       |       |
| ( 9. M.)            | 69.2   | 71.7   | 72.3   | 72.5  | 73.0   | 74.0  | 74.3   | 74.0   | 70.5   | 82.6   | 87.8   |       |       |       |       |       |       |
| VEHICLE             | 75.8   | 78.8   | 76.8   | 79.6  | 77.1   | 77.3  | 78.3   | 80.3   | 81.3   | 83.2   | 87.5   |       |       |       |       |       |       |
| CONFIG NC-025       | 74.8   | 78.5   | 73.5   | 76.3  | 76.8   | 75.8  | 78.3   | 78.8   | 82.3   | 84.1   | 87.2   |       |       |       |       |       |       |
| LOC SCHEMECTADY     | 73.7   | 73.3   | 73.6   | 75.1  | 76.9   | 79.1  | 79.8   | 81.4   | 82.9   | 85.4   | 88.5   |       |       |       |       |       |       |
| DATE 81-28-75       | 78.5   | 78.8   | 80.6   | 80.8  | 84.6   | 82.1  | 83.6   | 84.8   | 85.6   | 86.4   | 88.8   |       |       |       |       |       |       |
| RUN 676             | 78.8   | 78.3   | 78.6   | 79.4  | 79.9   | 80.1  | 80.8   | 81.6   | 82.1   | 84.7   | 88.5   |       |       |       |       |       |       |
| TAPE 31             | 77.2   | 77.3   | 78.8   | 77.8  | 79.5   | 79.0  | 80.2   | 81.9   | 82.5   | 83.9   | 85.7   |       |       |       |       |       |       |
| BAR 30.0 NO         | 74.6   | 78.1   | 78.2   | 78.7  | 77.9   | 78.7  | 80.4   | 81.4   | 83.2   | 84.0   | 85.3   |       |       |       |       |       |       |
| (01272, N/M2)       | 75.2   | 78.3   | 76.6   | 78.3  | 79.1   | 80.4  | 82.8   | 83.6   | 84.1   | 83.9   | 84.5   |       |       |       |       |       |       |
| BARB (47, DEG F)    | 75.8   | 78.8   | 76.4   | 78.1  | 78.6   | 80.1  | 81.3   | 82.2   | 83.6   | 83.2   | 83.3   |       |       |       |       |       |       |
| (201, DEG K)        | 74.5   | 78.0   | 75.1   | 77.1  | 77.8   | 79.3  | 81.3   | 82.1   | 83.4   | 82.7   | 82.5   |       |       |       |       |       |       |
| INLET (41, DEG F)   | 74.3   | 74.3   | 75.1   | 76.7  | 77.4   | 79.4  | 80.8   | 81.7   | 83.7   | 82.3   | 81.8   |       |       |       |       |       |       |
| (278, DEG K)        | 73.7   | 73.7   | 75.0   | 76.3  | 77.5   | 78.2  | 80.2   | 81.1   | 82.8   | 81.6   | 80.6   |       |       |       |       |       |       |
| MACT 5.00 CM/M3     | 74.3   | 74.6   | 75.8   | 77.4  | 78.6   | 78.8  | 80.0   | 83.4   | 82.9   | 82.3   | 80.5   |       |       |       |       |       |       |
| (.00500, KG/M3)     | 72.5   | 72.9   | 73.8   | 75.9  | 78.8   | 77.2  | 77.9   | 79.1   | 81.2   | 79.0   | 78.9   |       |       |       |       |       |       |
| RPA 7849, RPM       | 71.8   | 74.3   | 73.3   | 75.2  | 78.8   | 78.3  | 78.2   | 79.7   | 82.7   | 79.6   | 78.7   |       |       |       |       |       |       |
| ( 821, RAD/SEC)     | 72.3   | 72.4   | 74.1   | 76.8  | 78.6   | 79.2  | 81.7   | 85.2   | 85.5   | 83.9   | 80.2   |       |       |       |       |       |       |
| RPM 7937, RPM       | 71.1   | 74.9   | 73.3   | 75.7  | 78.1   | 80.9  | 82.7   | 85.7   | 87.8   | 83.6   | 79.4   |       |       |       |       |       |       |
| ( 831, RAD/SEC)     | 73.0   | 73.9   | 75.6   | 78.1  | 79.1   | 83.9  | 84.2   | 89.1   | 92.8   | 85.7   | 81.1   |       |       |       |       |       |       |
| RPM 8823, RPM       | 72.9   | 74.9   | 76.2   | 78.8  | 81.8   | 84.2  | 88.8   | 91.8   | 94.3   | 88.8   | 84.8   |       |       |       |       |       |       |
| ( 924, RAD/SEC)     | 72.1   | 73.7   | 75.8   | 79.8  | 81.2   | 83.8  | 88.3   | 90.7   | 92.2   | 85.1   | 79.4   |       |       |       |       |       |       |
| NO. OF BLADES 13    | 74.2   | 75.8   | 78.9   | 81.9  | 85.2   | 88.3  | 91.7   | 93.9   | 94.3   | 87.4   | 83.5   |       |       |       |       |       |       |
| PAN TIP SPEED 16000 | 73.8   | 76.8   | 80.4   | 84.8  | 86.3   | 88.2  | 91.7   | 94.7   | 94.5   | 86.8   | 82.8   |       |       |       |       |       |       |
| 689, FT/SEC         | 74.3   | 77.3   | 81.6   | 85.8  | 87.6   | 90.2  | 93.6   | 96.2   | 96.6   | 89.9   | 82.8   |       |       |       |       |       |       |
| 25000               | 72.8   | 74.9   | 78.1   | 81.5  | 84.6   | 88.8  | 91.8   | 94.7   | 95.9   | 89.7   | 82.8   |       |       |       |       |       |       |
| 31500               | 70.8   | 73.6   | 75.7   | 80.8  | 82.4   | 86.1  | 89.6   | 92.9   | 93.3   | 87.8   | 79.4   |       |       |       |       |       |       |
| 40000               | 78.3   | 78.8   | 73.8   | 77.2  | 80.9   | 83.2  | 87.6   | 89.8   | 90.2   | 84.8   | 76.8   |       |       |       |       |       |       |
| 90000               | 88.3   | 87.8   | 88.8   | 71.2  | 73.9   | 77.5  | 81.4   | 82.6   | 83.3   | 79.8   | 78.8   |       |       |       |       |       |       |
| 63888               | 85.7   | 85.3   | 83.8   | 84.8  | 84.3   | 87.7  | 72.1   | 73.2   | 73.6   | 89.1   | 84.8   |       |       |       |       |       |       |
| 88888               | 87.9   | 87.9   | 85.4   | 84.4  | 84.2   | 84.3  | 85.2   | 84.6   | 84.6   | 82.9   | 83.8   |       |       |       |       |       |       |
| OVERALL MEASURED    |        |        |        |       |        |       |        |        |        |        |        |       |       |       |       |       |       |
| OVERALL CALCULATED  | 89.8   | 84.8   | 81.3   | 83.8  | 88.9   | 88.9  | 100.7  | 100.5  | 104.8  | 99.6   | 88.8   |       |       |       |       |       |       |
| PMDB                | 88.9   | 89.3   | 100.5  | 102.8 | 103.9  | 103.9 | 100.8  | 110.4  | 118.2  | 109.3  | 107.4  |       |       |       |       |       |       |

11 20 0000 11/20/75 0000

ANGLES FROM INLET IN DEGREES (AND RADIANS)  
FREQ. (0.92)(1.08)(1.24)(1.41)(1.58)(1.74)(1.94)(2.13)(2.32)(2.52)(2.73)(0.9)(1.0)(1.1)(1.2)(1.3)(1.4)(1.5)

|                     |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |
|---------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SIDELINE 300 FT     | 53   | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 156   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| ( 80.06 M)          | 53   | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 156   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| VEHICLE 75-4        | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| CONFIG NC-026       | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| LOC SCHENECTADY     | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| DATE 01-28-75       | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| RUN 676             | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| TARE 31             | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| BAR 30.0 HG         | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| (1012.72 N/M2)      | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| TEMP 47.0 DEG F     | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| (281.1 DEG K)       | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| TRF 41.0 DEG F      | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| (278.0 DEG K)       | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| MACY 5.00 CM/M3     | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| (.00500 KG/M3)      | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| MPA 7845.0 RPM      | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| ( 821.0 RAD/SEC)    | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| MPC 7937.0 RPM      | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| ( 831.0 RAD/SEC)    | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| MPI 8823.0 RPM      | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| ( 924.0 RAD/SEC)    | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| NO. OF BLADES 19    | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| PAN TIP SPEED 10000 | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| 689.0 FT/SEC        | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| 25000               | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| 31500               | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| 40000               | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| 50000               | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| 63000               | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| 80000               | 108  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  | 6300  | 8000  |
| OVERALL CALCULATED  | 43.5 | 63.3 | 66.3 | 68.3 | 69.6 | 70.3 | 71.3 | 72.0 | 72.8 | 73.6 | 74.5  | 75.5  | 76.5  | 77.5  | 78.5  | 79.5  | 80.5  | 81.5  | 82.5  | 83.5  |
| PNDB                | 72.6 | 74.3 | 76.2 | 78.0 | 80.5 | 82.7 | 85.2 | 88.4 | 92.3 | 96.8 | 101.8 | 107.3 | 113.3 | 119.8 | 126.8 | 134.3 | 142.3 | 150.8 | 159.8 | 169.3 |

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10-3883-10000



|                    | 53     | 62      | 71      | 81      | 91      | 101     | 111     | 122     | 133     | 145     | 156     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|--------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                    | (1.02) | (1.08)  | (1.24)  | (1.41)  | (1.58)  | (1.76)  | (1.94)  | (2.13)  | (2.32)  | (2.52)  | (2.73)  | (0)     | (0)     | (0)     | (0)     | (0)     | (0)     | (0)     |
| SIDELINE 200 FT:   | 50     | 52.3    | 54.3    | 55.7    | 56.6    | 57.6    | 58.3    | 58.8    | 59.2    | 59.4    | 59.6    | 59.8    | 59.9    | 60.0    | 60.0    | 60.0    | 60.0    | 60.0    |
| ( 80.98 N)         | 63     | 65.3    | 67.3    | 68.7    | 69.6    | 70.6    | 71.3    | 71.8    | 72.2    | 72.4    | 72.6    | 72.8    | 72.9    | 73.0    | 73.0    | 73.0    | 73.0    | 73.0    |
| VEHICLE 75-2       | 125    | 127.3   | 129.3   | 130.7   | 131.6   | 132.6   | 133.3   | 133.8   | 134.2   | 134.4   | 134.6   | 134.8   | 134.9   | 135.0   | 135.0   | 135.0   | 135.0   | 135.0   |
| CONFIG NC-026      | 160    | 162.3   | 164.3   | 165.7   | 166.6   | 167.6   | 168.3   | 168.8   | 169.2   | 169.4   | 169.6   | 169.8   | 169.9   | 170.0   | 170.0   | 170.0   | 170.0   | 170.0   |
| LOC SC-EJECTADY    | 300    | 302.3   | 304.3   | 305.7   | 306.6   | 307.6   | 308.3   | 308.8   | 309.2   | 309.4   | 309.6   | 309.8   | 309.9   | 310.0   | 310.0   | 310.0   | 310.0   | 310.0   |
| DATE 01-26-75      | 277    | 279.3   | 281.3   | 282.7   | 283.6   | 284.6   | 285.3   | 285.8   | 286.2   | 286.4   | 286.6   | 286.8   | 286.9   | 287.0   | 287.0   | 287.0   | 287.0   | 287.0   |
| RUN 243000         | 319    | 321.3   | 323.3   | 324.7   | 325.6   | 326.6   | 327.3   | 327.8   | 328.2   | 328.4   | 328.6   | 328.8   | 328.9   | 329.0   | 329.0   | 329.0   | 329.0   | 329.0   |
| TYPE 31            | 400    | 402.3   | 404.3   | 405.7   | 406.6   | 407.6   | 408.3   | 408.8   | 409.2   | 409.4   | 409.6   | 409.8   | 409.9   | 410.0   | 410.0   | 410.0   | 410.0   | 410.0   |
| BAR 30.0 HG        | 500    | 502.3   | 504.3   | 505.7   | 506.6   | 507.6   | 508.3   | 508.8   | 509.2   | 509.4   | 509.6   | 509.8   | 509.9   | 510.0   | 510.0   | 510.0   | 510.0   | 510.0   |
| (01272, N/M2)      | 630    | 632.3   | 634.3   | 635.7   | 636.6   | 637.6   | 638.3   | 638.8   | 639.2   | 639.4   | 639.6   | 639.8   | 639.9   | 640.0   | 640.0   | 640.0   | 640.0   | 640.0   |
| TAMB 47, DEG F     | 830    | 832.3   | 834.3   | 835.7   | 836.6   | 837.6   | 838.3   | 838.8   | 839.2   | 839.4   | 839.6   | 839.8   | 839.9   | 840.0   | 840.0   | 840.0   | 840.0   | 840.0   |
| (281, DEG K)       | 1000   | 1002.3  | 1004.3  | 1005.7  | 1006.6  | 1007.6  | 1008.3  | 1008.8  | 1009.2  | 1009.4  | 1009.6  | 1009.8  | 1009.9  | 1010.0  | 1010.0  | 1010.0  | 1010.0  | 1010.0  |
| TMEY 41, DEG F     | 1250   | 1252.3  | 1254.3  | 1255.7  | 1256.6  | 1257.6  | 1258.3  | 1258.8  | 1259.2  | 1259.4  | 1259.6  | 1259.8  | 1259.9  | 1260.0  | 1260.0  | 1260.0  | 1260.0  | 1260.0  |
| (275, DEG K)       | 1630   | 1632.3  | 1634.3  | 1635.7  | 1636.6  | 1637.6  | 1638.3  | 1638.8  | 1639.2  | 1639.4  | 1639.6  | 1639.8  | 1639.9  | 1640.0  | 1640.0  | 1640.0  | 1640.0  | 1640.0  |
| WACT 5.00 CM/MS    | 2000   | 2002.3  | 2004.3  | 2005.7  | 2006.6  | 2007.6  | 2008.3  | 2008.8  | 2009.2  | 2009.4  | 2009.6  | 2009.8  | 2009.9  | 2010.0  | 2010.0  | 2010.0  | 2010.0  | 2010.0  |
| (100500, K2/43)    | 2500   | 2502.3  | 2504.3  | 2505.7  | 2506.6  | 2507.6  | 2508.3  | 2508.8  | 2509.2  | 2509.4  | 2509.6  | 2509.8  | 2509.9  | 2510.0  | 2510.0  | 2510.0  | 2510.0  | 2510.0  |
| NFA 5500, RPM      | 3150   | 3152.3  | 3154.3  | 3155.7  | 3156.6  | 3157.6  | 3158.3  | 3158.8  | 3159.2  | 3159.4  | 3159.6  | 3159.8  | 3159.9  | 3160.0  | 3160.0  | 3160.0  | 3160.0  | 3160.0  |
| ( 576, RAD/SEC)    | 4000   | 4002.3  | 4004.3  | 4005.7  | 4006.6  | 4007.6  | 4008.3  | 4008.8  | 4009.2  | 4009.4  | 4009.6  | 4009.8  | 4009.9  | 4010.0  | 4010.0  | 4010.0  | 4010.0  | 4010.0  |
| NFK 5967, RPM      | 5000   | 5002.3  | 5004.3  | 5005.7  | 5006.6  | 5007.6  | 5008.3  | 5008.8  | 5009.2  | 5009.4  | 5009.6  | 5009.8  | 5009.9  | 5010.0  | 5010.0  | 5010.0  | 5010.0  | 5010.0  |
| ( 583, RAD/SEC)    | 6300   | 6302.3  | 6304.3  | 6305.7  | 6306.6  | 6307.6  | 6308.3  | 6308.8  | 6309.2  | 6309.4  | 6309.6  | 6309.8  | 6309.9  | 6310.0  | 6310.0  | 6310.0  | 6310.0  | 6310.0  |
| NFD 8823, RPM      | 8000   | 8002.3  | 8004.3  | 8005.7  | 8006.6  | 8007.6  | 8008.3  | 8008.8  | 8009.2  | 8009.4  | 8009.6  | 8009.8  | 8009.9  | 8010.0  | 8010.0  | 8010.0  | 8010.0  | 8010.0  |
| ( 924, RAD/SEC)    | 10000  | 10002.3 | 10004.3 | 10005.7 | 10006.6 | 10007.6 | 10008.3 | 10008.8 | 10009.2 | 10009.4 | 10009.6 | 10009.8 | 10009.9 | 10010.0 | 10010.0 | 10010.0 | 10010.0 | 10010.0 |
| NO. OF BLADES 19   | 12500  | 12502.3 | 12504.3 | 12505.7 | 12506.6 | 12507.6 | 12508.3 | 12508.8 | 12509.2 | 12509.4 | 12509.6 | 12509.8 | 12509.9 | 12510.0 | 12510.0 | 12510.0 | 12510.0 | 12510.0 |
| PAN TIP SPEED      | 16000  | 16002.3 | 16004.3 | 16005.7 | 16006.6 | 16007.6 | 16008.3 | 16008.8 | 16009.2 | 16009.4 | 16009.6 | 16009.8 | 16009.9 | 16010.0 | 16010.0 | 16010.0 | 16010.0 | 16010.0 |
| 400, FT/SEC        | 20000  | 20002.3 | 20004.3 | 20005.7 | 20006.6 | 20007.6 | 20008.3 | 20008.8 | 20009.2 | 20009.4 | 20009.6 | 20009.8 | 20009.9 | 20010.0 | 20010.0 | 20010.0 | 20010.0 | 20010.0 |
|                    | 25000  | 25002.3 | 25004.3 | 25005.7 | 25006.6 | 25007.6 | 25008.3 | 25008.8 | 25009.2 | 25009.4 | 25009.6 | 25009.8 | 25009.9 | 25010.0 | 25010.0 | 25010.0 | 25010.0 | 25010.0 |
|                    | 31500  | 31502.3 | 31504.3 | 31505.7 | 31506.6 | 31507.6 | 31508.3 | 31508.8 | 31509.2 | 31509.4 | 31509.6 | 31509.8 | 31509.9 | 31510.0 | 31510.0 | 31510.0 | 31510.0 | 31510.0 |
|                    | 40000  | 40002.3 | 40004.3 | 40005.7 | 40006.6 | 40007.6 | 40008.3 | 40008.8 | 40009.2 | 40009.4 | 40009.6 | 40009.8 | 40009.9 | 40010.0 | 40010.0 | 40010.0 | 40010.0 | 40010.0 |
|                    | 50000  | 50002.3 | 50004.3 | 50005.7 | 50006.6 | 50007.6 | 50008.3 | 50008.8 | 50009.2 | 50009.4 | 50009.6 | 50009.8 | 50009.9 | 50010.0 | 50010.0 | 50010.0 | 50010.0 | 50010.0 |
|                    | 63000  | 63002.3 | 63004.3 | 63005.7 | 63006.6 | 63007.6 | 63008.3 | 63008.8 | 63009.2 | 63009.4 | 63009.6 | 63009.8 | 63009.9 | 63010.0 | 63010.0 | 63010.0 | 63010.0 | 63010.0 |
| OVERALL CALCULATED |        | 57.8    | 59.6    | 61.2    | 62.6    | 63.8    | 64.8    | 65.5    | 66.1    | 66.4    | 66.6    | 66.7    | 66.8    | 66.8    | 66.8    | 66.8    | 66.8    | 66.8    |
| PNOS               |        | 62.6    | 67.7    | 67.1    | 69.2    | 71.8    | 72.6    | 72.6    | 74.8    | 75.7    | 76.7    | 76.8    | 76.8    | 76.8    | 76.8    | 76.8    | 76.8    | 76.8    |

ORIGINAL PAGE  
OF PLOT  
QUALITY

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PAGE 1 FULL SCALE DATA (NON-CALCULATED)

FREQ. RATE = 4000/H 3 DAY 28 HR. 12.0

BASELINE SOUND PRESSURE LEVELS (50, 75, 100, 125, 150, 175, 200, 250, 315, 396, 501, 631, 794, 1000, 1259, 1600, 2000, 2512, 3150, 3960, 5012, 6309, 7943, 10000, 12589, 16000, 20000, 25120, 31500, 39600, 50120, 63090, 79430, 100000, 125890, 160000, 200000, 251200, 315000, 396000, 501200, 630900, 794300, 1000000)

ADDRESS FOR INPUT IN GRAPHS (AND GRAPH)

| PARAMETER          | 50    | 63   | 71   | 71   | 91   | 112  | 111   | 111   | 122   | 133   | 145   | 150  | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
|--------------------|-------|------|------|------|------|------|-------|-------|-------|-------|-------|------|----|----|----|----|----|----|----|
| RADIAL 17. FT.     | 150   | 71.5 | 73.2 | 74.2 | 77.7 | 78.0 | 79.9  | 71.4  | 67.3  | 70.2  | 73.3  | 70.4 |    |    |    |    |    |    |    |
| VEHICLE            | 170   | 47.0 | 48.4 | 51.4 | 71.0 | 75.4 | 47.4  | 47.4  | 71.5  | 77.0  | 77.5  | 74.7 |    |    |    |    |    |    |    |
| CNTRIC             | 180   | 62.3 | 64.7 | 65.2 | 67.7 | 69.1 | 67.4  | 68.4  | 66.8  | 71.7  | 73.9  | 79.4 |    |    |    |    |    |    |    |
| LOC SELECT         | 200   | 44.2 | 64.2 | 65.4 | 66.5 | 66.8 | 69.1  | 69.3  | 71.2  | 72.7  | 74.0  | 70.4 |    |    |    |    |    |    |    |
| DATE 1/27/75       | 250   | 47.0 | 67.7 | 58.6 | 67.7 | 69.3 | 71.1  | 71.5  | 72.5  | 73.2  | 74.3  | 75.6 |    |    |    |    |    |    |    |
| RLT 65/1           | 315   | 47.0 | 67.7 | 58.7 | 67.7 | 69.3 | 71.1  | 71.2  | 71.3  | 71.4  | 72.7  | 74.7 |    |    |    |    |    |    |    |
| TAPE               | 400   | 47.0 | 67.7 | 57.9 | 67.7 | 69.3 | 71.1  | 71.4  | 72.4  | 72.5  | 73.0  | 74.2 |    |    |    |    |    |    |    |
| BAC 21.2 MS        | 500   | 47.0 | 67.7 | 66.7 | 67.4 | 69.1 | 70.9  | 71.4  | 73.3  | 73.7  | 73.8  | 73.9 |    |    |    |    |    |    |    |
| (101/23. 4/22)     | 670   | 47.0 | 67.7 | 66.7 | 67.4 | 69.1 | 70.9  | 71.4  | 73.3  | 73.7  | 73.8  | 73.9 |    |    |    |    |    |    |    |
| TAVS 24. TEC F     | 700   | 47.0 | 67.7 | 67.4 | 71.0 | 71.9 | 74.5  | 74.5  | 75.8  | 74.7  | 76.3  | 73.9 |    |    |    |    |    |    |    |
| 1249. TEC F        | 800   | 44.9 | 66.5 | 67.7 | 69.8 | 71.1 | 74.0  | 75.3  | 77.5  | 77.7  | 77.3  | 72.7 |    |    |    |    |    |    |    |
| T-CT 17. TEC F     | 900   | 69.1 | 66.5 | 71.7 | 77.4 | 77.0 | 78.5  | 81.5  | 82.0  | 83.4  | 83.4  | 76.9 |    |    |    |    |    |    |    |
| 1249. TEC F        | 1000  | 47.0 | 66.3 | 65.7 | 47.4 | 64.2 | 76.5  | 71.0  | 73.5  | 74.0  | 74.0  | 70.2 |    |    |    |    |    |    |    |
| NACT 0.52 40/23    | 1200  | 61.4 | 63.3 | 43.9 | 64.7 | 66.7 | 64.0  | 70.0  | 71.7  | 71.2  | 72.3  | 68.0 |    |    |    |    |    |    |    |
| 100153 40/23       | 1500  | 64.3 | 67.3 | 67.0 | 64.9 | 71.2 | 74.0  | 75.9  | 77.4  | 74.7  | 71.3  | 68.4 |    |    |    |    |    |    |    |
| MFA 533.0 400      | 1700  | 47.1 | 64.7 | 64.3 | 47.7 | 73.9 | 74.2  | 75.9  | 77.1  | 74.9  | 76.9  | 67.1 |    |    |    |    |    |    |    |
| 1249. 44-7/21      | 2000  | 47.0 | 66.9 | 69.8 | 71.1 | 74.1 | 77.9  | 80.3  | 82.5  | 81.4  | 77.5  | 72.2 |    |    |    |    |    |    |    |
| NFK 542.0 400      | 2500  | 42.3 | 64.3 | 66.1 | 47.7 | 71.0 | 71.1  | 79.0  | 80.2  | 80.5  | 75.4  | 71.2 |    |    |    |    |    |    |    |
| 1249. 402/REC1     | 3000  | 64.1 | 65.0 | 66.4 | 69.4 | 73.3 | 76.5  | 79.1  | 81.7  | 82.2  | 76.0  | 73.4 |    |    |    |    |    |    |    |
| MFC 622.0 400      | 4000  | 47.4 | 65.1 | 67.2 | 47.5 | 72.1 | 74.5  | 78.3  | 81.4  | 82.0  | 70.4  | 73.4 |    |    |    |    |    |    |    |
| 1249. 44-7/21      | 5000  | 67.5 | 64.5 | 67.4 | 69.4 | 72.1 | 74.0  | 77.4  | 81.6  | 83.4  | 70.3  | 72.0 |    |    |    |    |    |    |    |
| NO. OF PLACES 15   | 6000  | 61.3 | 63.4 | 65.9 | 69.2 | 72.3 | 75.7  | 77.6  | 81.3  | 82.7  | 70.2  | 77.0 |    |    |    |    |    |    |    |
| FAN TIP SPEED      | 8000  | 61.4 | 62.9 | 65.0 | 69.3 | 71.9 | 75.3  | 77.1  | 80.0  | 82.4  | 77.5  | 72.1 |    |    |    |    |    |    |    |
| 400. FT/SEC        | 10000 | 61.0 | 63.1 | 65.3 | 70.5 | 73.1 | 74.0  | 74.7  | 81.5  | 82.5  | 70.0  | 71.3 |    |    |    |    |    |    |    |
|                    | 12500 | 59.8 | 61.5 | 62.0 | 64.3 | 71.1 | 74.0  | 76.1  | 78.0  | 80.3  | 74.2  | 69.1 |    |    |    |    |    |    |    |
|                    | 15000 | 59.7 | 63.3 | 64.4 | 69.4 | 72.7 | 75.5  | 76.6  | 79.7  | 75.3  | 67.3  |      |    |    |    |    |    |    |    |
|                    | 20000 | 55.9 | 57.2 | 58.3 | 64.4 | 67.7 | 71.3  | 72.7  | 74.0  | 74.9  | 71.5  | 61.3 |    |    |    |    |    |    |    |
|                    | 25000 | 55.3 | 55.1 | 56.7 | 58.1 | 61.2 | 65.2  | 66.7  | 66.0  | 68.2  | 65.9  | 50.1 |    |    |    |    |    |    |    |
|                    | 30000 | 54.9 | 55.1 | 55.4 | 54.8 | 54.3 | 56.9  | 56.6  | 59.4  | 60.4  | 54.4  | 53.1 |    |    |    |    |    |    |    |
|                    | 40000 | 54.7 | 61.3 | 55.4 | 53.6 | 53.4 | 54.4  | 54.0  | 54.4  | 54.1  | 53.3  | 51.0 |    |    |    |    |    |    |    |
| OVERALL AVERAGE    |       |      |      |      |      |      |       |       |       |       |       |      |    |    |    |    |    |    |    |
| OVERALL CALCULATED |       | 79.7 | 81.1 | 82.3 | 84.4 | 86.0 | 84.7  | 89.1  | 92.6  | 93.4  | 91.0  | 87.6 |    |    |    |    |    |    |    |
| MFC                |       | 85.7 | 91.0 | 93.4 | 95.4 | 97.4 | 100.5 | 102.3 | 104.4 | 104.3 | 101.0 | 97.0 |    |    |    |    |    |    |    |

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|                       | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180 | 190 | 200 |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| SYDLINE 200 FT.       | 47.7 | 50.5 | 52.1 | 52.7 | 52.5 | 54.2 | 49.4 | 44.2 | 45.0 | 46.7 | 46.4 |     |     |     |
| VEHICLE 200 FT.       | 41.7 | 47.4 | 49.3 | 47.5 | 51.7 | 45.4 | 45.5 | 47.4 | 47.4 | 45.3 | 44.4 |     |     |     |
| CRANE 75 FT.          | 41.7 | 41.7 | 42.3 | 42.9 | 43.1 | 42.5 | 46.4 | 46.5 | 47.1 | 46.9 | 44.9 |     |     |     |
| LPG SCHEMECTADY       | 41.7 | 41.2 | 41.1 | 44.5 | 45.0 | 47.2 | 46.4 | 47.0 | 48.0 | 47.1 | 45.7 |     |     |     |
| DATE 1/27/75          | 42.0 | 42.6 | 42.3 | 42.7 | 42.4 | 42.1 | 46.4 | 47.1 | 48.3 | 47.2 | 44.4 |     |     |     |
| RUN 05/1              | 44.3 | 42.0 | 42.7 | 42.1 | 42.1 | 42.0 | 44.7 | 44.2 | 47.7 | 44.5 | 43.0 |     |     |     |
| TARE                  | 42.4 | 44.4 | 45.3 | 42.4 | 42.0 | 42.2 | 44.1 | 44.4 | 47.4 | 45.6 | 42.0 |     |     |     |
| EAP 30.2 10           | 42.7 | 42.5 | 44.0 | 42.5 | 46.3 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 |     |     |     |
| 131030 12/21          | 42.1 | 42.5 | 42.4 | 42.7 | 52.4 | 52.1 | 52.4 | 51.9 | 50.4 | 48.3 | 47.0 |     |     |     |
| TARM 24. DEC F        | 42.4 | 44.7 | 45.5 | 45.4 | 45.5 | 51.4 | 51.5 | 51.4 | 51.2 | 44.3 | 41.0 |     |     |     |
| 4240 DEC F            | 42.7 | 42.7 | 44.4 | 42.2 | 44.5 | 51.3 | 52.1 | 52.4 | 52.7 | 44.1 | 40.2 |     |     |     |
| TART 17. DEC F        | 44.1 | 41.5 | 42.5 | 51.3 | 52.0 | 54.2 | 55.2 | 57.2 | 56.1 | 54.2 | 44.1 |     |     |     |
| 1240 DEC F            | 37.7 | 32.3 | 42.3 | 44.5 | 45.4 | 47.0 | 47.4 | 45.0 | 47.9 | 46.1 | 34.9 |     |     |     |
| HAD 3.55 12/21        | 42.7 | 42.7 | 42.4 | 42.4 | 42.7 | 42.0 | 42.3 | 42.0 | 42.9 | 43.3 | 35.2 |     |     |     |
| 100030 12/21          | 42.7 | 42.5 | 42.2 | 42.4 | 42.1 | 51.4 | 51.3 | 52.5 | 44.1 | 42.0 | 34.2 |     |     |     |
| NFA 5210 12/21        | 37.0 | 32.9 | 42.3 | 42.5 | 42.5 | 50.6 | 51.7 | 51.9 | 48.9 | 41.2 | 32.2 |     |     |     |
| 1 5210 12/21          | 37.0 | 41.6 | 44.5 | 47.1 | 50.3 | 53.6 | 55.7 | 54.4 | 54.2 | 48.9 | 36.2 |     |     |     |
| MPF 5520 12/21        | 35.2 | 34.3 | 41.4 | 42.1 | 42.2 | 41.0 | 53.1 | 54.1 | 52.4 | 44.4 | 34.5 |     |     |     |
| 1 5730 12/21          | 35.4 | 32.4 | 41.3 | 41.7 | 42.4 | 51.9 | 53.5 | 54.4 | 53.3 | 46.5 | 35.0 |     |     |     |
| MPF 6430 12/21        | 34.2 | 32.4 | 42.6 | 43.4 | 44.3 | 50.4 | 51.5 | 52.6 | 52.4 | 45.2 | 32.1 |     |     |     |
| 1 9240 12/21          | 31.4 | 32.2 | 37.0 | 41.1 | 44.7 | 45.4 | 49.0 | 51.7 | 50.0 | 42.4 | 27.7 |     |     |     |
| LN OF BLAZES 15       | 26.4 | 31.2 | 35.4 | 32.4 | 42.7 | 45.0 | 44.4 | 44.7 | 47.1 | 37.4 | 21.0 |     |     |     |
| FAH TIP SPEC 1500     | 22.9 | 24.9 | 26.6 | 25.5 | 29.7 | 41.7 | 42.4 | 43.1 | 41.7 | 36.2 | 12.0 |     |     |     |
| 460 FT/SEC 25100      | 15.4 | 21.8 | 25.3 | 32.3 | 35.2 | 34.4 | 34.9 | 34.9 | 35.1 | 22.0 |      |     |     |     |
| 25100                 | 5.4  | 12.4 | 16.3 | 22.2 | 26.5 | 29.0 | 28.0 | 24.2 | 23.5 | 0.3  |      |     |     |     |
| 21000                 |      | 3.3  | 5.5  | 11.4 | 14.1 | 20.2 | 18.7 | 16.1 | 9.8  |      |      |     |     |     |
| 40000                 |      |      |      |      |      | 0.9  |      |      |      |      |      |     |     |     |
| 50000                 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |
| 60000                 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |
| 70000                 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |
| OVERALL CAL. CUL AT 2 | 54.7 | 57.3 | 57.9 | 60.9 | 62.1 | 63.9 | 64.5 | 65.4 | 64.0 | 60.7 | 55.1 |     |     |     |
| OVERALL CAL. CUL AT 2 | 63.0 | 66.5 | 69.0 | 71.5 | 73.7 | 76.0 | 77.0 | 78.0 | 76.0 | 71.3 | 62.5 |     |     |     |

| FREQ.              | ANGLE FROM INLET IN DEGREES (AND RADIANS) |      |      |      |       |       |       |       |       |       |       | PWL |  |  |       |
|--------------------|---|------|------|------|-------|-------|-------|-------|-------|-------|-------|-----|--|--|-------|
|                    | 0.  | 10.  | 20.  | 30.  | 40.   | 50.   | 60.   | 70.   | 80.   | 90.   | 100.  |     |  |  |       |
| 70                 |   |      |      |      |       |       |       |       |       |       |       |     |  |  |       |
| 83                 |   |      |      |      |       |       |       |       |       |       |       |     |  |  |       |
| 100                | 75.8                                      | 75.6 | 74.9 | 74.7 | 75.3  | 72.7  | 69.1  | 69.4  | 72.5  | 74.6  | 80.4  |     |  |  | 109.2 |
| 125                | 63.5                                      | 71.1 | 72.1 | 72.3 | 73.6  | 71.2  | 71.4  | 74.2  | 74.7  | 76.3  | 79.1  |     |  |  | 107.6 |
| 160                | 62.5                                      | 68.6 | 69.4 | 68.9 | 69.1  | 70.4  | 72.9  | 73.9  | 75.7  | 77.8  | 79.9  |     |  |  | 107.4 |
| 200                | 61.8                                      | 68.6 | 69.4 | 69.7 | 70.9  | 73.1  | 73.4  | 75.9  | 77.0  | 79.6  | 81.1  |     |  |  | 108.0 |
| 250                | 71.0                                      | 71.4 | 72.4 | 72.4 | 72.6  | 73.4  | 74.9  | 75.4  | 76.0  | 78.3  | 79.1  |     |  |  | 106.7 |
| 315                | 72.1                                      | 72.6 | 73.1 | 73.7 | 73.1  | 74.4  | 74.9  | 75.9  | 76.2  | 78.3  | 78.9  |     |  |  | 109.1 |
| 400                | 70.3                                      | 70.9 | 71.2 | 71.3 | 71.9  | 73.4  | 74.4  | 75.4  | 76.2  | 77.6  | 77.9  |     |  |  | 108.2 |
| 500                | 68.6                                      | 69.2 | 69.7 | 70.7 | 71.9  | 74.0  | 75.1  | 75.9  | 76.7  | 77.6  | 77.4  |     |  |  | 108.2 |
| 630                | 71.1                                      | 70.9 | 72.4 | 74.2 | 75.7  | 77.0  | 78.6  | 78.4  | 79.9  | 79.4  | 77.9  |     |  |  | 110.7 |
| 800                | 70.7                                      | 71.7 | 72.7 | 73.5 | 74.7  | 76.7  | 77.6  | 78.4  | 79.3  | 79.4  | 76.6  |     |  |  | 110.4 |
| 1000               | 68.7                                      | 69.9 | 70.7 | 72.7 | 74.2  | 76.5  | 77.9  | 79.4  | 80.5  | 80.1  | 75.9  |     |  |  | 110.7 |
| 1250               | 68.0                                      | 69.3 | 70.4 | 72.3 | 73.7  | 76.0  | 77.4  | 78.7  | 80.0  | 80.7  | 75.7  |     |  |  | 110.4 |
| 1600               | 67.7                                      | 69.3 | 70.4 | 71.3 | 72.5  | 75.0  | 77.1  | 80.2  | 81.3  | 80.7  | 74.4  |     |  |  | 110.7 |
| 2000               | 68.0                                      | 67.0 | 67.7 | 69.1 | 70.3  | 71.5  | 73.9  | 74.4  | 74.5  | 75.2  | 72.4  |     |  |  | 106.1 |
| 2500               | 66.7                                      | 67.3 | 69.6 | 70.6 | 72.6  | 74.8  | 76.1  | 75.6  | 74.8  | 73.4  | 71.4  |     |  |  | 107.3 |
| 3150               | 69.7                                      | 71.2 | 74.1 | 75.6 | 77.8  | 81.8  | 82.8  | 81.8  | 79.7  | 75.9  | 73.3  |     |  |  | 113.0 |
| 4000               | 67.1                                      | 69.1 | 71.0 | 73.4 | 75.9  | 79.9  | 83.2  | 83.7  | 82.9  | 77.6  | 74.0  |     |  |  | 113.5 |
| 5000               | 67.2                                      | 68.3 | 70.4 | 72.5 | 75.3  | 80.3  | 84.4  | 86.4  | 83.5  | 78.7  | 74.4  |     |  |  | 114.9 |
| 6300               | 67.7                                      | 69.1 | 70.8 | 73.3 | 75.9  | 80.3  | 84.0  | 85.4  | 85.7  | 81.1  | 75.9  |     |  |  | 115.2 |
| 8000               | 67.5                                      | 69.1 | 71.2 | 73.3 | 75.8  | 80.8  | 82.5  | 85.5  | 86.0  | 82.2  | 76.4  |     |  |  | 115.4 |
| 10000              | 66.4                                      | 68.3 | 70.1 | 73.6 | 76.7  | 80.6  | 82.4  | 85.3  | 87.0  | 82.1  | 75.7  |     |  |  | 115.6 |
| 12500              | 67.4                                      | 68.5 | 70.0 | 73.2 | 76.6  | 79.4  | 82.5  | 86.2  | 86.5  | 82.0  | 76.0  |     |  |  | 119.9 |
| 16000              | 64.8                                      | 66.1 | 65.0 | 71.8 | 75.5  | 78.6  | 81.7  | 84.2  | 85.5  | 80.8  | 75.1  |     |  |  | 114.9 |
| 20000              | 64.9                                      | 66.6 | 68.8 | 73.8 | 76.7  | 80.1  | 82.5  | 85.7  | 87.8  | 81.7  | 75.3  |     |  |  | 116.9 |
| 25000              | 63.9                                      | 65.6 | 68.2 | 72.9 | 75.5  | 78.2  | 80.7  | 83.3  | 84.6  | 79.3  | 72.0  |     |  |  | 119.1 |
| 31500              | 63.2                                      | 65.4 | 68.2 | 73.5 | 76.3  | 79.6  | 81.7  | 83.1  | 83.0  | 78.5  | 70.8  |     |  |  | 119.9 |
| 40000              | 61.3                                      | 62.3 | 65.8 | 69.3 | 72.4  | 75.6  | 77.3  | 78.7  | 79.3  | 75.3  | 65.6  |     |  |  | 113.2 |
| 50000              | 61.7                                      | 61.4 | 62.5 | 64.2 | 66.3  | 69.8  | 71.9  | 71.6  | 72.5  | 69.7  | 61.1  |     |  |  | 109.8 |
| 63000              | 61.4                                      | 61.1 | 62.8 | 61.1 | 62.4  | 64.7  | 65.6  | 64.6  | 65.0  | 63.8  | 59.4  |     |  |  | 106.5 |
| 80000              | 66.4                                      | 62.8 | 65.3 | 62.4 | 62.5  | 63.8  | 63.9  | 63.1  | 62.0  | 62.7  | 61.4  |     |  |  | 110.4 |
| OVERALL MEASURED   |   |      |      |      |       |       |       |       |       |       |       |     |  |  |       |
| OVERALL CALCULATED | 83.6                                      | 84.2 | 85.3 | 87.2 | 89.1  | 92.0  | 94.3  | 96.2  | 96.7  | 93.7  | 91.0  |     |  |  | 127.3 |
| PWLF               | 94.2                                      | 95.4 | 97.4 | 99.0 | 100.8 | 104.0 | 106.8 | 107.4 | 106.8 | 104.1 | 100.7 |     |  |  |       |

|                    | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0    | 0   | 0   | 0   | 0   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|
|                    | (0.22) | (1.03) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) |
| SITELINE 200 FT.   | 50     | 53.1   | 52.9   | 52.8   | 55.0   | 54.3   | 50.9   | 46.9   | 46.3   | 46.0   | 50.0   | 50.3 |     |     |     |     |
| VEHICLE (40.9R M)  | 125    | 44.3   | 48.3   | 50.0   | 50.4   | 52.7   | 49.3   | 46.1   | 51.0   | 50.2   | 49.7   | 46.0 |     |     |     |     |
| CONFIG 75-5        | 150    | 44.7   | 45.7   | 47.2   | 47.1   | 47.4   | 47.5   | 50.5   | 50.7   | 51.1   | 51.0   | 49.4 |     |     |     |     |
| LCC SCHEDULED      | 200    | 46.5   | 45.4   | 47.1   | 47.7   | 47.1   | 51.2   | 51.2   | 52.6   | 52.7   | 52.6   | 50.4 |     |     |     |     |
| DATE 1/23/75       | 250    | 47.0   | 48.3   | 50.0   | 50.4   | 50.7   | 51.4   | 52.3   | 52.0   | 51.1   | 51.2   | 47.2 |     |     |     |     |
| RUN 65/2           | 315    | 47.9   | 49.5   | 50.7   | 51.4   | 51.2   | 52.3   | 52.2   | 52.4   | 51.3   | 51.1   | 47.8 |     |     |     |     |
| TAPE               | 400    | 44.1   | 47.6   | 48.6   | 49.4   | 49.4   | 51.2   | 51.7   | 51.8   | 51.1   | 50.2   | 46.5 |     |     |     |     |
| BAR 30-2 HG        | 500    | 44.2   | 45.8   | 47.0   | 47.4   | 49.8   | 51.6   | 52.3   | 52.2   | 51.5   | 50.0   | 45.8 |     |     |     |     |
| (01653- M/12)      | 600    | 46.6   | 47.4   | 49.6   | 51.9   | 53.4   | 54.6   | 55.7   | 54.6   | 53.6   | 51.8   | 46.1 |     |     |     |     |
| TAMB 25 DEG F      | 800    | 45.0   | 48.1   | 49.8   | 51.9   | 52.3   | 54.2   | 54.6   | 54.4   | 53.7   | 51.4   | 44.5 |     |     |     |     |
| (245 DEG F)        | 1000   | 43.9   | 46.2   | 47.5   | 50.1   | 51.7   | 53.4   | 54.7   | 55.3   | 54.8   | 51.9   | 43.4 |     |     |     |     |
| T-ET 18 DEG F      | 1200   | 43.0   | 45.1   | 47.3   | 49.5   | 51.1   | 53.2   | 54.1   | 54.4   | 54.1   | 52.2   | 42.8 |     |     |     |     |
| (255 DEG F)        | 1400   | 42.5   | 44.7   | 47.1   | 49.4   | 49.7   | 52.1   | 53.6   | 55.7   | 55.2   | 52.0   | 41.1 |     |     |     |     |
| MACT 0.65 IN/MS    | 2000   | 40.5   | 42.7   | 44.1   | 46.3   | 47.3   | 49.4   | 50.2   | 49.7   | 48.2   | 46.1   | 38.6 |     |     |     |     |
| (10005 KG/MS)      | 2500   | 41.5   | 43.5   | 45.9   | 47.4   | 49.7   | 51.5   | 52.2   | 50.7   | 48.1   | 44.1   | 37.2 |     |     |     |     |
| NFA 8110 RPM       | 3100   | 43.6   | 46.4   | 50.1   | 52.1   | 54.4   | 56.2   | 58.6   | 58.6   | 52.7   | 46.0   | 38.4 |     |     |     |     |
| (640- RAT/SEC)     | 4000   | 40.5   | 43.8   | 46.5   | 49.4   | 52.1   | 55.7   | 58.5   | 58.9   | 55.3   | 47.0   | 38.0 |     |     |     |     |
| NFK 6321 RPM       | 5000   | 40.4   | 42.8   | 45.7   | 48.3   | 51.6   | 56.1   | 59.7   | 60.3   | 55.8   | 47.7   | 37.8 |     |     |     |     |
| (652- RAT/SEC)     | 6000   | 40.0   | 42.7   | 45.3   | 48.7   | 51.2   | 55.3   | 58.4   | 58.5   | 56.8   | 48.9   | 37.4 |     |     |     |     |
| NFD 8823 RPM       | 8000   | 38.7   | 41.5   | 44.6   | 47.9   | 49.9   | 54.7   | 56.1   | 57.3   | 54.6   | 48.0   | 35.1 |     |     |     |     |
| (924- RAT/SEC)     | 10000  | 35.3   | 38.6   | 41.9   | 46.1   | 49.3   | 52.4   | 54.1   | 55.4   | 54.4   | 45.2   | 30.5 |     |     |     |     |
| NO. OF FLAMES 15   | 12500  | 33.5   | 36.8   | 39.4   | 42.4   | 47.1   | 49.6   | 51.7   | 53.6   | 50.9   | 41.2   | 25.0 |     |     |     |     |
| FAN TIP SPEED      | 16000  | 26.3   | 33.1   | 33.7   | 37.4   | 42.4   | 45.0   | 47.0   | 47.3   | 44.8   | 32.6   | 14.8 |     |     |     |     |
| 533- FT/SEC        | 20000  | 20.3   | 25.1   | 29.4   | 32.6   | 38.8   | 41.7   | 42.7   | 43.1   | 40.4   | 26.0   | 2.5  |     |     |     |     |
|                    | 25000  | 10.6   | 16.4   | 21.6   | 27.7   | 30.9   | 32.9   | 33.6   | 32.6   | 27.8   | 11.5   |      |     |     |     |     |
|                    | 31500  |        | 4.8    | 11.1   | 14.5   | 21.7   | 24.2   | 23.9   | 20.6   | 12.3   |        |      |     |     |     |     |
|                    | 40000  |        |        |        | 3.1    | 5.2    | 3.6    |        |        |        |        |      |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| OVERALL CALCULATED |        | 58.5   | 59.9   | 61.5   | 63.3   | 64.6   | 66.6   | 68.2   | 68.4   | 66.7   | 63.3   | 58.8 |     |     |     |     |
| PR.20              |        | 68.0   | 70.4   | 73.2   | 75.3   | 77.3   | 80.3   | 81.4   | 81.7   | 79.8   | 73.4   | 65.7 |     |     |     |     |

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822

|                    | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 130    | 140    | 150    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | PWL   |       |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                    | (0.87) | (1.05) | (1.24) | (1.41) | (1.59) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)   | (0)   | (0)   | (0)   | (0)   | (0)   | (0)   | dB    |       |
| FREQ.              | 50     | 63     | 80     | 100    | 125    | 160    | 200    | 250    | 315    | 400    | 500    | 630   | 800   | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  |       |
| RADIAL 17. FT.     | 150    | 125    | 100    | 75     | 60     | 50     | 40     | 35     | 30     | 25     | 20     | 15    | 10    | 8     | 6     | 5     | 4     | 3     | 2     | 1     |
| VEHICLE (S.M.)     | 150    | 125    | 100    | 75     | 60     | 50     | 40     | 35     | 30     | 25     | 20     | 15    | 10    | 8     | 6     | 5     | 4     | 3     | 2     | 1     |
| CONFIG 75-5        | 150    | 125    | 100    | 75     | 60     | 50     | 40     | 35     | 30     | 25     | 20     | 15    | 10    | 8     | 6     | 5     | 4     | 3     | 2     | 1     |
| LCC SCHEMECTARY    | 250    | 200    | 160    | 125    | 100    | 80     | 65     | 55     | 45     | 38     | 32     | 28    | 24    | 20    | 18    | 15    | 12    | 10    | 8     | 6     |
| DATE 1/23/75       | 200    | 160    | 125    | 100    | 80     | 65     | 55     | 45     | 38     | 32     | 28     | 24    | 20    | 18    | 15    | 12    | 10    | 8     | 6     | 5     |
| RUF 65/3           | 315    | 250    | 200    | 160    | 125    | 100    | 80     | 65     | 55     | 45     | 38     | 32    | 28    | 24    | 20    | 18    | 15    | 12    | 10    | 8     |
| TAPE               | 450    | 350    | 280    | 220    | 180    | 140    | 110    | 90     | 75     | 65     | 55     | 45    | 38    | 32    | 28    | 24    | 20    | 18    | 15    | 12    |
| BAR 30.2 MG        | 550    | 450    | 350    | 280    | 220    | 180    | 140    | 110    | 90     | 75     | 65     | 55    | 45    | 38    | 32    | 28    | 24    | 20    | 18    | 15    |
| (31983. N/F2)      | 630    | 500    | 400    | 320    | 250    | 200    | 160    | 130    | 105    | 85     | 70     | 60    | 50    | 40    | 32    | 26    | 22    | 18    | 15    | 12    |
| TAMB 25 DEG F      | 650    | 520    | 420    | 340    | 270    | 220    | 180    | 145    | 115    | 95     | 80     | 68    | 58    | 48    | 38    | 30    | 24    | 20    | 16    | 13    |
| (265. DEG K)       | 1000   | 800    | 650    | 520    | 420    | 340    | 270    | 220    | 180    | 145    | 115    | 95    | 80    | 68    | 58    | 48    | 38    | 30    | 24    | 20    |
| TACT 18. DEG F     | 1250   | 1000   | 800    | 650    | 520    | 420    | 340    | 270    | 220    | 180    | 145    | 115   | 95    | 80    | 68    | 58    | 48    | 38    | 30    | 24    |
| (265. DEG K)       | 1900   | 1500   | 1200   | 950    | 750    | 600    | 480    | 390    | 320    | 260    | 210    | 170   | 140   | 115   | 95    | 80    | 68    | 58    | 48    | 38    |
| HACT 0.65 CM/PS    | 2000   | 1600   | 1300   | 1000   | 800    | 650    | 520    | 420    | 340    | 270    | 220    | 180   | 145   | 115   | 95    | 80    | 68    | 58    | 48    | 38    |
| (-CC165 AG/MS)     | 2500   | 2000   | 1600   | 1300   | 1000   | 800    | 650    | 520    | 420    | 340    | 270    | 220   | 180   | 145   | 115   | 95    | 80    | 68    | 58    | 48    |
| MFA 671. RPM       | 3150   | 2500   | 2000   | 1600   | 1300   | 1000   | 800    | 650    | 520    | 420    | 340    | 270   | 220   | 180   | 145   | 115   | 95    | 80    | 68    | 58    |
| (713. RA/SEC)      | 4000   | 3200   | 2500   | 2000   | 1600   | 1300   | 1000   | 800    | 650    | 520    | 420    | 340   | 270   | 220   | 180   | 145   | 115   | 95    | 80    | 68    |
| MFK 714. RPM       | 5000   | 4000   | 3200   | 2500   | 2000   | 1600   | 1300   | 1000   | 800    | 650    | 520    | 420   | 340   | 270   | 220   | 180   | 145   | 115   | 95    | 80    |
| (744. RA/SEC)      | 6300   | 5000   | 4000   | 3200   | 2500   | 2000   | 1600   | 1300   | 1000   | 800    | 650    | 520   | 420   | 340   | 270   | 220   | 180   | 145   | 115   | 95    |
| MFD 823. RPM       | 8000   | 6500   | 5000   | 4000   | 3200   | 2500   | 2000   | 1600   | 1300   | 1000   | 800    | 650   | 520   | 420   | 340   | 270   | 220   | 180   | 145   | 115   |
| (924. RA/SEC)      | 10000  | 8000   | 6500   | 5000   | 4000   | 3200   | 2500   | 2000   | 1600   | 1300   | 1000   | 800   | 650   | 520   | 420   | 340   | 270   | 220   | 180   | 145   |
| NO. OF BLADES 15   | 12500  | 10000  | 8000   | 6500   | 5000   | 4000   | 3200   | 2500   | 2000   | 1600   | 1300   | 1000  | 800   | 650   | 520   | 420   | 340   | 270   | 220   | 180   |
| PAH TIP SPEED      | 16000  | 13000  | 10000  | 8000   | 6500   | 5000   | 4000   | 3200   | 2500   | 2000   | 1600   | 1300  | 1000  | 800   | 650   | 520   | 420   | 340   | 270   | 220   |
| 600. FT/SEC        | 20000  | 16000  | 13000  | 10000  | 8000   | 6500   | 5000   | 4000   | 3200   | 2500   | 2000   | 1600  | 1300  | 1000  | 800   | 650   | 520   | 420   | 340   | 270   |
|                    | 25000  | 20000  | 16000  | 13000  | 10000  | 8000   | 6500   | 5000   | 4000   | 3200   | 2500   | 2000  | 1600  | 1300  | 1000  | 800   | 650   | 520   | 420   | 340   |
|                    | 31500  | 25000  | 20000  | 16000  | 13000  | 10000  | 8000   | 6500   | 5000   | 4000   | 3200   | 2500  | 2000  | 1600  | 1300  | 1000  | 800   | 650   | 520   | 420   |
|                    | 40000  | 32000  | 25000  | 20000  | 16000  | 13000  | 10000  | 8000   | 6500   | 5000   | 4000   | 3200  | 2500  | 2000  | 1600  | 1300  | 1000  | 800   | 650   | 520   |
|                    | 50000  | 40000  | 32000  | 25000  | 20000  | 16000  | 13000  | 10000  | 8000   | 6500   | 5000   | 4000  | 3200  | 2500  | 2000  | 1600  | 1300  | 1000  | 800   | 650   |
|                    | 63000  | 50000  | 40000  | 32000  | 25000  | 20000  | 16000  | 13000  | 10000  | 8000   | 6500   | 5000  | 4000  | 3200  | 2500  | 2000  | 1600  | 1300  | 1000  | 800   |
|                    | 80000  | 65000  | 50000  | 40000  | 32000  | 25000  | 20000  | 16000  | 13000  | 10000  | 8000   | 6500  | 5000  | 4000  | 3200  | 2500  | 2000  | 1600  | 1300  | 1000  |
| OVERALL MEASURED   | 85.4   | 87.3   | 88.1   | 88.2   | 88.6   | 89.4   | 90.2   | 91.0   | 91.8   | 92.6   | 93.4   | 94.2  | 95.0  | 95.8  | 96.6  | 97.4  | 98.2  | 99.0  | 99.8  | 100.6 |
| OVERALL CALCULATED | 85.4   | 87.3   | 88.1   | 88.2   | 88.6   | 89.4   | 90.2   | 91.0   | 91.8   | 92.6   | 93.4   | 94.2  | 95.0  | 95.8  | 96.6  | 97.4  | 98.2  | 99.0  | 99.8  | 100.6 |
| PN38               | 96.3   | 98.0   | 99.1   | 101.4  | 103.7  | 106.0  | 108.7  | 111.8  | 115.4  | 119.4  | 123.8  | 128.6 | 133.8 | 139.4 | 145.4 | 151.8 | 158.6 | 165.8 | 173.4 | 181.4 |

MODEL 3000 PRESSURE LEVELS (50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000) ANGLES FROM INLET IN DEGREES (AND RADIANS)

|  | 50    | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 0    | 0 | 0 | 0 | 0 |
|--|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|
| PREC. (1.02)(1.08)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(3.00)(3.10)(3.10)(3.10)(3.10)(3.10) |       |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
| STRAIGHT 200. FT. (60.96 M)  | 100   | 47.6 | 52.4 | 52.1 | 51.7 | 54.7 | 52.9 | 52.4 | 50.6 | 52.3 | 54.3 | 54.1 |   |   |   |   |
| VEHICLE R-55   | 124   | 47.3 | 56.3 | 55.2 | 54.0 | 57.2 | 55.3 | 55.3 | 54.8 | 54.5 | 53.9 | 52.6 |   |   |   |   |
| CONFIG 75-5  | 150   | 47.4 | 48.5 | 49.9 | 50.4 | 57.2 | 51.5 | 53.8 | 53.7 | 54.8 | 55.9 | 53.4 |   |   |   |   |
| LOC SPHERICAL  | 200   | 47.3 | 45.6 | 43.6 | 51.0 | 51.8 | 54.2 | 54.4 | 55.1 | 55.0 | 55.4 | 53.7 |   |   |   |   |
| DATE 1/23/75   | 250   | 47.7 | 51.6 | 53.2 | 54.2 | 54.2 | 55.4 | 56.1 | 55.7 | 55.1 | 55.5 | 52.7 |   |   |   |   |
| RUL. 65/3  | 315   | 51.1 | 53.0 | 54.2 | 55.1 | 54.7 | 55.4 | 55.2 | 55.1 | 55.0 | 54.6 | 51.5 |   |   |   |   |
| TAPE   | 450   | 47.1 | 51.1 | 51.4 | 53.0 | 53.1 | 55.0 | 54.7 | 54.5 | 53.9 | 53.7 | 50.8 |   |   |   |   |
| BAR 30.2 HG  | 500   | 47.2 | 48.8 | 49.7 | 51.4 | 52.5 | 54.6 | 55.1 | 55.4 | 54.5 | 53.5 | 49.3 |   |   |   |   |
| (01983. 1/2M2)   | 530   | 48.9 | 49.9 | 51.6 | 54.6 | 55.4 | 57.3 | 58.0 | 57.8 | 56.1 | 54.1 | 48.8 |   |   |   |   |
| TANK 25 DEG F  | 600   | 47.5 | 51.1 | 52.0 | 54.3 | 55.3 | 56.7 | 57.6 | 57.2 | 56.9 | 53.7 | 48.3 |   |   |   |   |
| (259. DEG K)   | 1000  | 45.6 | 48.9 | 50.4 | 52.4 | 54.2 | 56.1 | 57.2 | 58.8 | 56.8 | 53.7 | 46.8 |   |   |   |   |
| T-ET 16. DEG F   | 1250  | 46.0 | 48.3 | 49.5 | 51.8 | 53.6 | 55.2 | 56.3 | 56.4 | 55.4 | 53.2 | 45.8 |   |   |   |   |
| (265. DEG K)   | 1600  | 44.3 | 47.1 | 48.8 | 50.4 | 51.7 | 53.8 | 54.1 | 54.2 | 52.7 | 50.2 | 43.4 |   |   |   |   |
| NACT 0.05 GM/MT  | 2000  | 44.3 | 45.9 | 47.1 | 49.0 | 50.8 | 52.4 | 53.2 | 52.7 | 51.0 | 48.9 | 42.1 |   |   |   |   |
| (00005 KG/MT)  | 2400  | 47.5 | 46.5 | 47.9 | 50.9 | 52.7 | 54.2 | 54.2 | 55.5 | 56.9 | 46.6 | 40.9 |   |   |   |   |
| NFA 6871. RPM  | 3150  | 44.9 | 47.4 | 50.1 | 52.8 | 56.4 | 60.2 | 61.3 | 59.1 | 55.7 | 47.0 | 40.7 |   |   |   |   |
| (719. RA/SEC)  | 4000  | 44.3 | 47.3 | 49.9 | 53.1 | 56.4 | 59.9 | 61.5 | 59.7 | 57.5 | 48.2 | 40.5 |   |   |   |   |
| NFK 7100. RPM  | 5000  | 42.6 | 45.8 | 48.2 | 51.6 | 55.1 | 58.8 | 60.2 | 60.3 | 56.1 | 48.7 | 40.0 |   |   |   |   |
| (744. RA/SEC)  | 6300  | 42.7 | 45.9 | 48.3 | 52.4 | 54.9 | 59.3 | 61.1 | 60.2 | 59.8 | 50.6 | 39.9 |   |   |   |   |
| NFD 8823. RPM  | 8000  | 41.8 | 45.5 | 47.9 | 51.9 | 54.9 | 58.5 | 60.6 | 60.3 | 58.8 | 49.8 | 37.6 |   |   |   |   |
| (924. RA/SEC)  | 10000 | 39.8 | 42.4 | 45.6 | 50.3 | 52.8 | 56.1 | 57.6 | 56.1 | 56.0 | 47.8 | 32.7 |   |   |   |   |
| NO. OF SLATES 15   | 12500 | 36.3 | 39.9 | 42.9 | 47.2 | 51.3 | 53.9 | 55.2 | 56.6 | 53.9 | 43.0 | 26.8 |   |   |   |   |
| FAN TIP SPEED 600. FT/SEC  | 16000 | 29.5 | 34.1 | 37.9 | 42.4 | 46.1 | 48.5 | 49.8 | 50.8 | 47.8 | 39.3 | 17.0 |   |   |   |   |
|  | 20000 | 23.8 | 28.6 | 33.7 | 38.6 | 42.6 | 45.2 | 46.8 | 45.6 | 42.9 | 28.2 | 4.8  |   |   |   |   |
|  | 25000 | 13.6 | 20.1 | 25.6 | 31.5 | 34.6 | 37.2 | 37.3 | 36.1 | 31.6 | 14.2 |      |   |   |   |   |
|  | 31500 | 3.1  | 8.8  | 13.3 | 22.5 | 26.2 | 28.5 | 28.9 | 23.8 | 16.3 |      |      |   |   |   |   |
|  | 40000 |      |      |      | 2.9  | 7.3  | 9.0  | 7.1  | 2.1  |      |      |      |   |   |   |   |
|  | 50000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
|  | 63000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
|  | 80000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
| OVERALL CALCULATED   |       | 60.0 | 63.1 | 64.1 | 65.9 | 67.8 | 69.9 | 71.0 | 70.6 | 69.2 | 65.9 | 62.4 |   |   |   |   |
| PNER   |       | 70.2 | 72.9 | 74.9 | 77.6 | 80.1 | 83.0 | 84.2 | 83.1 | 81.8 | 78.4 | 68.7 |   |   |   |   |



PAGE 3 FULL SCALE DATA COMPUTATION PROGRAM  
 PRG. DATE - MONTH 3 DAY 28 HR. 12.1  
 ANGLES FROM INLET IN DEGREES (AKD MAGIANG)

|                    |       | 57     | 62     | 71      | 81     | 91      | 101    | 111    | 122     | 133     | 145     | 159     | 0    | 0 | 0 | 0 | 0 |
|--------------------|-------|--------|--------|---------|--------|---------|--------|--------|---------|---------|---------|---------|------|---|---|---|---|
|                    | FREQ  | (7.82) | (10.3) | (12.24) | (14.1) | (15.98) | (17.6) | (19.4) | (21.15) | (22.82) | (24.52) | (26.23) | 0    | 0 | 0 | 0 | 0 |
| SYTELINE 200. FT.  | 50    |        |        |         |        |         |        |        |         |         |         |         |      |   |   |   |   |
| ( 60.96 F)         | 100   | 45.4   | 47.2   | 41.1    | 51.9   | 72.0    | 57.2   | 52.4   | 52.3    | 54.8    | 57.8    | 57.6    |      |   |   |   |   |
| VEPIC E P-55       | 125   | 51.5   | 55.8   | 56.0    | 56.2   | 56.2    | 55.3   | 55.4   | 56.8    | 56.8    | 56.5    | 57.2    | 57.1 |   |   |   |   |
| CONFIC 75-5        | 160   | 50.7   | 51.7   | 52.9    | 52.8   | 53.7    | 55.0   | 56.8   | 57.4    | 57.8    | 58.5    | 59.4    | 58.9 |   |   |   |   |
| LCC SCHEMECTARY    | 200   | 51.1   | 50.4   | 52.1    | 57.5   | 54.6    | 56.9   | 57.2   | 58.1    | 58.2    | 59.4    | 57.4    |      |   |   |   |   |
| DATE 1/23/75       | 250   | 54.7   | 55.8   | 57.7    | 57.7   | 57.7    | 58.9   | 61.1   | 61.0    | 60.1    | 59.7    | 57.8    |      |   |   |   |   |
| RUI 65/4           | 315   | 54.1   | 55.3   | 57.2    | 57.5   | 57.7    | 58.5   | 58.8   | 58.6    | 58.0    | 58.3    | 58.0    |      |   |   |   |   |
| TAFE               | 450   | 52.6   | 53.9   | 55.1    | 55.5   | 56.3    | 57.7   | 57.7   | 58.0    | 57.1    | 57.4    | 58.5    |      |   |   |   |   |
| BAR 30.2 HG        | 500   | 49.7   | 51.3   | 52.7    | 51.9   | 55.0    | 57.4   | 58.1   | 58.2    | 57.8    | 57.0    | 53.3    |      |   |   |   |   |
| (019F3. K/M2)      | 650   | 51.9   | 52.7   | 54.9    | 54.9   | 57.9    | 59.8   | 60.5   | 60.1    | 59.1    | 57.1    | 52.8    |      |   |   |   |   |
| TAMB 25 DEC F      | 800   | 52.2   | 53.3   | 55.0    | 54.8   | 58.3    | 59.5   | 60.1   | 60.2    | 58.5    | 56.7    | 51.8    |      |   |   |   |   |
| (263. DEC F)       | 1050  | 48.6   | 51.7   | 53.6    | 54.4   | 56.5    | 58.3   | 59.5   | 59.5    | 59.1    | 58.2    | 58.2    |      |   |   |   |   |
| TLET 18 DEC F      | 1250  | 49.5   | 50.8   | 52.8    | 54.1   | 56.4    | 58.8   | 58.8   | 58.6    | 58.4    | 55.2    | 49.1    |      |   |   |   |   |
| (255. DEC F)       | 1500  | 47.8   | 48.4   | 51.3    | 52.7   | 54.0    | 55.3   | 56.1   | 55.9    | 54.9    | 52.2    | 48.9    |      |   |   |   |   |
| INACT 0.65 G4/M2   | 2000  | 48.0   | 49.7   | 51.4    | 53.7   | 55.1    | 56.8   | 57.7   | 58.2    | 56.9    | 53.4    | 46.6    |      |   |   |   |   |
| (1.00065 KG/MT)    | 2500  | 46.8   | 47.7   | 51.2    | 53.5   | 55.4    | 56.2   | 56.4   | 56.7    | 54.1    | 50.3    | 44.4    |      |   |   |   |   |
| NFA 7635 RPP       | 3100  | 46.1   | 48.9   | 51.1    | 54.1   | 56.9    | 58.7   | 58.8   | 58.3    | 54.7    | 49.3    | 42.7    |      |   |   |   |   |
| ( 799. RPP/SEC)    | 4000  | 43.0   | 50.6   | 53.5    | 57.4   | 60.1    | 63.9   | 65.5   | 64.0    | 61.8    | 52.9    | 48.0    |      |   |   |   |   |
| NFY 7898 RPM       | 5000  | 45.4   | 48.3   | 51.0    | 54.6   | 57.6    | 62.1   | 62.2   | 62.1    | 57.6    | 50.7    | 42.8    |      |   |   |   |   |
| ( 827. RAD/SEC)    | 6300  | 45.5   | 48.4   | 51.8    | 55.4   | 58.2    | 63.0   | 62.9   | 64.2    | 61.8    | 52.1    | 41.9    |      |   |   |   |   |
| NFD 6823 RPM       | 8000  | 43.8   | 48.2   | 51.4    | 55.2   | 57.4    | 62.0   | 63.1   | 63.6    | 61.8    | 51.5    | 40.1    |      |   |   |   |   |
| ( 924. RAD/SEC)    | 10000 | 41.5   | 45.7   | 48.4    | 53.8   | 56.3    | 59.6   | 62.1   | 61.4    | 59.7    | 48.8    | 38.5    |      |   |   |   |   |
| NO. OF BLADES 15   | 1500  | 39.2   | 42.4   | 46.4    | 50.9   | 54.6    | 57.4   | 58.0   | 59.9    | 56.5    | 48.0    | 35.8    |      |   |   |   |   |
| PAN TIP SPEED      | 18000 | 32.8   | 37.1   | 41.2    | 45.6   | 49.6    | 51.8   | 53.0   | 54.1    | 49.8    | 37.8    | 29.0    |      |   |   |   |   |
| 667. FT/SEC        | 23000 | 26.5   | 32.1   | 37.4    | 42.6   | 45.8    | 46.7   | 49.7   | 49.6    | 44.9    | 38.5    | 9.0     |      |   |   |   |   |
|                    | 25000 | 17.1   | 23.9   | 29.6    | 36.0   | 38.9    | 40.9   | 41.6   | 41.1    | 34.6    | 17.7    |         |      |   |   |   |   |
|                    | 31000 | 3.1    | 12.1   | 19.8    | 26.2   | 29.0    | 31.7   | 30.9   | 28.1    | 19.5    |         |         |      |   |   |   |   |
|                    | 40000 |        |        |         | 6.7    | 10.3    | 12.5   | 11.3   | 5.6     |         |         |         |      |   |   |   |   |
|                    | 50000 |        |        |         |        |         |        |        |         |         |         |         |      |   |   |   |   |
|                    | 63000 |        |        |         |        |         |        |        |         |         |         |         |      |   |   |   |   |
|                    | 80000 |        |        |         |        |         |        |        |         |         |         |         |      |   |   |   |   |
| OVERALL CALCULATED |       | 63.3   | 68.8   | 68.9    | 69.7   | 70.2    | 72.7   | 73.6   | 73.5    | 71.9    | 69.2    | 66.3    |      |   |   |   |   |
| PH24               |       | 73.3   | 75.6   | 78.1    | 81.0   | 83.1    | 86.1   | 87.2   | 86.5    | 84.3    | 78.8    | 72.8    |      |   |   |   |   |



PHOC. DATE - MONTH 3 DAY 28 HR. 12.1  
 MODEL SOUND PRESSURE LEVEL (59. LIG. F. 70 PERCENT REL. HUM. EAV)  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                     | 57     | 62     | 71     | 71     | 91     | 101    | 111    | 122    | 133    | 145    | 155    | 0    | 0     | 0     | 0     | 0     |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-------|-------|-------|-------|
| FREQ                | (1.24) | (1.53) | (1.24) | (1.41) | (1.50) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (110) | (110) | (110) | (110) |
| SIDELINE 200 FT.    | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50   | 50    | 50    | 50    | 50    |
| (60.96 H)           | 110    | 47.1   | 47.7   | 51.3   | 51.5   | 52.0   | 52.0   | 52.4   | 52.3   | 54.3   | 57.3   | 57.0 |       |       |       |       |
| VEHICLE R=55        | 125    | 52.0   | 55.1   | 54.7   | 55.2   | 56.0   | 54.6   | 55.3   | 56.8   | 56.5   | 57.4   | 56.6 |       |       |       |       |
| CONFIG 75-5         | 150    | 51.4   | 51.5   | 52.7   | 53.9   | 53.7   | 54.5   | 56.4   | 56.7   | 57.6   | 58.5   | 57.1 |       |       |       |       |
| LCC SCHEMATIC       | 200    | 51.0   | 51.4   | 52.3   | 52.7   | 53.1   | 52.4   | 52.4   | 52.6   | 52.2   | 52.7   | 52.7 |       |       |       |       |
| DATE 1/23/75        | 250    | 55.0   | 55.8   | 57.5   | 57.7   | 58.3   | 58.5   | 60.3   | 60.5   | 59.0   | 60.0   | 57.2 |       |       |       |       |
| RUN 65/5            | 315    | 54.6   | 55.7   | 57.2   | 57.1   | 57.9   | 58.0   | 59.0   | 58.4   | 58.0   | 58.3   | 55.3 |       |       |       |       |
| TAPE                | 470    | 52.8   | 54.1   | 54.6   | 54.5   | 55.5   | 57.5   | 57.4   | 58.0   | 57.4   | 57.4   | 54.8 |       |       |       |       |
| BAR 30-2 HG         | 570    | 50.2   | 51.5   | 52.7   | 52.9   | 53.3   | 57.4   | 57.1   | 58.4   | 58.0   | 57.0   | 53.1 |       |       |       |       |
| (019F3. 1/12)       | 630    | 51.6   | 52.4   | 54.6   | 54.9   | 57.9   | 55.5   | 60.5   | 60.3   | 58.6   | 57.1   | 53.1 |       |       |       |       |
| TAMB 25- DEG F      | 870    | 52.2   | 53.6   | 54.5   | 57.7   | 57.0   | 55.7   | 60.1   | 59.9   | 59.0   | 56.7   | 51.8 |       |       |       |       |
| (269. DEG K)        | 1030   | 49.9   | 51.3   | 53.4   | 52.9   | 56.7   | 56.3   | 59.5   | 56.5   | 58.8   | 54.2   | 50.4 |       |       |       |       |
| T-FT 18- DEG F      | 1250   | 47.2   | 51.6   | 53.0   | 54.4   | 54.5   | 58.2   | 58.6   | 58.9   | 58.4   | 55.5   | 50.1 |       |       |       |       |
| (265. DEG K)        | 1500   | 44.0   | 49.6   | 51.1   | 52.4   | 54.2   | 55.8   | 54.4   | 55.7   | 55.9   | 52.2   | 47.4 |       |       |       |       |
| MACT 0.63 G/M3      | 2000   | 47.5   | 47.7   | 51.4   | 52.3   | 54.3   | 54.4   | 57.7   | 57.9   | 56.9   | 52.9   | 46.9 |       |       |       |       |
| (.6085 K2/M3)       | 2500   | 45.8   | 45.0   | 51.2   | 51.1   | 55.2   | 56.7   | 56.2   | 54.5   | 54.1   | 50.3   | 45.2 |       |       |       |       |
| NFA 7430 RPM        | 3150   | 44.9   | 45.6   | 51.3   | 51.3   | 56.4   | 56.9   | 59.1   | 58.1   | 55.0   | 49.0   | 48.4 |       |       |       |       |
| (757. RA/SEC)       | 4000   | 47.2   | 51.1   | 53.3   | 52.4   | 55.1   | 63.7   | 62.5   | 64.5   | 60.8   | 52.5   | 45.5 |       |       |       |       |
| NFK 7893 RPM        | 5000   | 45.6   | 49.3   | 51.5   | 55.1   | 57.8   | 61.1   | 62.9   | 61.8   | 58.1   | 51.2   | 44.3 |       |       |       |       |
| (826. RAD/SEC)      | 6300   | 46.0   | 48.4   | 52.1   | 55.9   | 58.4   | 63.0   | 62.9   | 64.2   | 62.1   | 52.4   | 42.4 |       |       |       |       |
| NFD 8223 RPM        | 8700   | 44.5   | 44.3   | 51.1   | 54.9   | 58.2   | 61.5   | 62.9   | 63.6   | 62.1   | 51.8   | 40.1 |       |       |       |       |
| (924. RAD/SEC)      | 10300  | 41.8   | 45.7   | 49.6   | 53.3   | 56.6   | 59.4   | 61.6   | 61.1   | 59.7   | 49.0   | 36.2 |       |       |       |       |
| NO. OF BLADES 15    | 12500  | 39.5   | 42.6   | 46.7   | 51.4   | 54.6   | 57.1   | 59.2   | 59.9   | 56.6   | 45.7   | 29.8 |       |       |       |       |
| FAH TIP SPEED 16000 | 20000  | 32.5   | 37.1   | 41.7   | 46.1   | 49.6   | 52.3   | 54.0   | 53.8   | 50.3   | 38.1   | 28.3 |       |       |       |       |
| 665. FT/SEC         | 25000  | 27.0   | 32.1   | 37.4   | 43.1   | 46.1   | 48.2   | 50.0   | 49.6   | 45.4   | 30.7   | 8.8  |       |       |       |       |
|                     | 31500  | 17.6   | 23.4   | 30.1   | 37.7   | 38.4   | 41.2   | 42.1   | 40.6   | 35.3   | 18.2   |      |       |       |       |       |
|                     | 40000  | 4.3    | 12.6   | 20.1   | 26.5   | 29.5   | 32.0   | 30.9   | 27.6   | 19.5   |        |      |       |       |       |       |
|                     | 50000  |        |        | 8.7    | 7.7    | 10.3   | 12.5   | 11.8   | 6.3    |        |        |      |       |       |       |       |
|                     | 63000  |        |        |        |        |        |        |        |        |        |        |      |       |       |       |       |
|                     | 80000  |        |        |        |        |        |        |        |        |        |        |      |       |       |       |       |
| OVERALL CALCULATED  |        | 63.6   | 65.0   | 66.5   | 68.6   | 73.3   | 72.6   | 73.6   | 73.5   | 72.0   | 69.3   | 66.4 |       |       |       |       |
| PNDR                |        | 73.5   | 75.8   | 78.0   | 81.1   | 83.1   | 85.9   | 87.2   | 88.6   | 84.3   | 78.8   | 74.1 |       |       |       |       |



|                    | 70    | 71   | 72   | 73   | 74   | 75   | 76   | 77   | 78   | 79   | 80   | 81   | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|----|----|----|
| SIDE LANE 200. FT. | 130   | 43.6 | 52.2 | 53.8 | 54.4 | 54.7 | 53.7 | 49.6 | 44.4 | 47.0 | 47.2 | 46.6 |    |    |    |    |    |    |    |    |    |
| VEHICLE 8-55       | 125   | 41.0 | 46.4 | 49.3 | 49.2 | 51.7 | 49.0 | 45.9 | 42.6 | 47.4 | 45.3 | 44.7 |    |    |    |    |    |    |    |    |    |
| CONFIG 75-5        | 150   | 40.4 | 47.8 | 47.4 | 47.9 | 43.7 | 44.8 | 44.7 | 46.5 | 47.1 | 46.9 | 45.2 |    |    |    |    |    |    |    |    |    |
| LCC SCHEMECTARY    | 230   | 40.9 | 44.2 | 42.6 | 44.3 | 45.2 | 47.4 | 47.3 | 47.4 | 47.5 | 47.3 | 45.7 |    |    |    |    |    |    |    |    |    |
| DATE 1/23/75       | 270   | 43.2 | 47.4 | 47.3 | 47.4 | 47.1 | 47.0 | 49.0 | 47.8 | 47.6 | 46.9 | 44.3 |    |    |    |    |    |    |    |    |    |
| RUN 65/6           | 315   | 44.1 | 47.3 | 47.4 | 47.1 | 47.3 | 49.0 | 49.4 | 49.0 | 47.7 | 46.9 | 43.8 |    |    |    |    |    |    |    |    |    |
| TAPE               | 450   | 42.5 | 47.9 | 45.3 | 46.6 | 46.9 | 48.2 | 48.3 | 47.6 | 47.1 | 45.1 | 42.3 |    |    |    |    |    |    |    |    |    |
| BAR 37.2 MG        | 500   | 43.7 | 47.5 | 43.5 | 44.7 | 44.9 | 47.9 | 49.0 | 49.3 | 48.2 | 46.2 | 42.6 |    |    |    |    |    |    |    |    |    |
| 101983. 1/121      | 670   | 43.1 | 44.3 | 45.4 | 44.7 | 50.5 | 51.6 | 52.4 | 51.0 | 50.4 | 48.3 | 42.3 |    |    |    |    |    |    |    |    |    |
| TAMP 24. DEG F     | 830   | 43.4 | 45.4 | 46.0 | 46.7 | 49.7 | 51.4 | 51.5 | 51.5 | 50.4 | 49.1 | 41.3 |    |    |    |    |    |    |    |    |    |
| 1260. DEG K1       | 1020  | 43.0 | 43.5 | 44.9 | 47.2 | 47.1 | 51.3 | 52.1 | 52.6 | 52.0 | 49.1 | 40.2 |    |    |    |    |    |    |    |    |    |
| TACT 17. DEG F     | 1270  | 44.6 | 46.1 | 49.0 | 52.3 | 52.3 | 54.2 | 55.5 | 57.2 | 55.6 | 53.4 | 46.6 |    |    |    |    |    |    |    |    |    |
| 1245. DEG F1       | 1620  | 38.4 | 39.9 | 42.3 | 44.7 | 43.6 | 47.3 | 48.0 | 49.0 | 47.6 | 46.4 | 36.4 |    |    |    |    |    |    |    |    |    |
| MACT 0.53 CM/M3    | 2050  | 35.2 | 36.7 | 40.2 | 42.6 | 41.7 | 45.8 | 46.4 | 47.0 | 45.1 | 43.3 | 34.9 |    |    |    |    |    |    |    |    |    |
| (.53953) KG/M31    | 2500  | 39.7 | 42.3 | 44.2 | 47.6 | 47.3 | 50.7 | 51.4 | 52.8 | 47.4 | 42.8 | 33.7 |    |    |    |    |    |    |    |    |    |
| NFA 5330. RPM      | 3170  | 37.5 | 40.4 | 47.6 | 45.1 | 47.8 | 50.1 | 52.2 | 51.9 | 48.4 | 41.0 | 32.4 |    |    |    |    |    |    |    |    |    |
| ( 559. RAD/SEC)    | 4000  | 37.9 | 41.9 | 44.3 | 47.4 | 50.3 | 54.0 | 56.2 | 56.5 | 54.8 | 46.9 | 36.7 |    |    |    |    |    |    |    |    |    |
| NFK 5520. RPM      | 5030  | 35.8 | 38.3 | 40.9 | 44.1 | 47.2 | 51.0 | 53.3 | 53.8 | 52.1 | 44.4 | 34.8 |    |    |    |    |    |    |    |    |    |
| ( 579. RAD/SEC)    | 6350  | 37.1 | 39.7 | 41.8 | 44.9 | 48.3 | 51.7 | 53.5 | 54.3 | 53.5 | 48.8 | 34.7 |    |    |    |    |    |    |    |    |    |
| NFD 6423. RPM      | 8050  | 34.5 | 37.3 | 40.1 | 43.4 | 46.6 | 50.2 | 51.6 | 51.4 | 49.4 | 41.8 | 31.8 |    |    |    |    |    |    |    |    |    |
| ( 824. RAD/SEC)    | 10000 | 31.4 | 35.2 | 37.6 | 41.4 | 45.9 | 49.4 | 49.3 | 51.7 | 50.9 | 42.8 | 27.7 |    |    |    |    |    |    |    |    |    |
| NO. OF BLADES 15   | 12500 | 29.1 | 32.9 | 35.4 | 39.4 | 42.7 | 46.3 | 47.3 | 48.7 | 47.8 | 34.4 | 21.8 |    |    |    |    |    |    |    |    |    |
| PAN TIP SPEED      | 16070 | 22.9 | 27.1 | 30.6 | 35.4 | 39.0 | 41.7 | 42.9 | 43.6 | 41.5 | 30.9 | 11.8 |    |    |    |    |    |    |    |    |    |
| 466. FT/SEC        | 23030 | 16.9 | 21.6 | 25.9 | 31.8 | 35.7 | 38.4 | 38.9 | 38.4 | 35.1 | 23.1 | 6.3  |    |    |    |    |    |    |    |    |    |
|                    | 25000 | 5.9  | 12.4 | 16.6 | 22.0 | 27.0 | 29.8 | 28.9 | 28.2 | 23.7 |      |      |    |    |    |    |    |    |    |    |    |
|                    | 31500 |      |      | 9.6  | 13.9 | 17.9 | 20.2 | 19.0 | 16.3 | 9.0  |      |      |    |    |    |    |    |    |    |    |    |
|                    | 40000 |      |      |      |      |      | 8.0  |      |      |      |      |      |    |    |    |    |    |    |    |    |    |
|                    | 53000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |    |    |    |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |    |    |    |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |    |    |    |
| OVERALL CALCULATED |       | 54.9 | 58.3 | 59.4 | 61.1 | 62.2 | 64.8 | 64.7 | 65.3 | 63.8 | 60.8 | 55.1 |    |    |    |    |    |    |    |    |    |
| PK23               |       | 64.4 | 67.2 | 68.8 | 71.8 | 73.8 | 76.9 | 78.2 | 78.6 | 76.6 | 71.3 | 62.8 |    |    |    |    |    |    |    |    |    |



BASE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (5' DEG. FC 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM IMPLY IN DEGREES (RAD. BARIANS)

PROC. DATE & MONTH 24 NOV 68

NR. 018

PRES. (0.2)(1.0)(2.0)(3.0)(5.0)(10.0)(20.0)(30.0)(50.0)(70.0)(100.0)(150.0)(200.0)(300.0)(500.0)(700.0)(1000.0)

|                     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |       |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| GENERAL             | 20.0  | 30.0  | 40.0  | 50.0  | 60.0  | 70.0  | 80.0  | 90.0  | 100.0 | 150.0 | 200.0 | 300.0 | 500.0 | 700.0 | 1000.0 |       |
| VEHICLE ROAD        | 100   | 120   | 140   | 160   | 180   | 200   | 220   | 240   | 260   | 280   | 300   | 320   | 340   | 360   | 380    | 400   |
| ROAD SCENE/TADJ     | 200   | 220   | 240   | 260   | 280   | 300   | 320   | 340   | 360   | 380   | 400   | 420   | 440   | 460   | 480    | 500   |
| DATA 01031-72       | 220   | 240   | 260   | 280   | 300   | 320   | 340   | 360   | 380   | 400   | 420   | 440   | 460   | 480   | 500    |       |
| SW 7201             | 300   | 320   | 340   | 360   | 380   | 400   | 420   | 440   | 460   | 480   | 500   | 520   | 540   | 560   | 580    | 600   |
| TYPE #00000         | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000    | 000   |
| BAR 3001 MB         | 300   | 320   | 340   | 360   | 380   | 400   | 420   | 440   | 460   | 480   | 500   | 520   | 540   | 560   | 580    | 600   |
| 001002 H(42)        | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000    | 000   |
| 1000 (270 DEG K)    | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000   | 1000  |
| 1200 (225 DEG K)    | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200  | 1200   | 1200  |
| 1600 (225 DEG K)    | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600   | 1600  |
| 2000 (225 DEG K)    | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000   | 2000  |
| 2400 (225 DEG K)    | 2400  | 2400  | 2400  | 2400  | 2400  | 2400  | 2400  | 2400  | 2400  | 2400  | 2400  | 2400  | 2400  | 2400  | 2400   | 2400  |
| 2800 (225 DEG K)    | 2800  | 2800  | 2800  | 2800  | 2800  | 2800  | 2800  | 2800  | 2800  | 2800  | 2800  | 2800  | 2800  | 2800  | 2800   | 2800  |
| 3200 (225 DEG K)    | 3200  | 3200  | 3200  | 3200  | 3200  | 3200  | 3200  | 3200  | 3200  | 3200  | 3200  | 3200  | 3200  | 3200  | 3200   | 3200  |
| 3600 (225 DEG K)    | 3600  | 3600  | 3600  | 3600  | 3600  | 3600  | 3600  | 3600  | 3600  | 3600  | 3600  | 3600  | 3600  | 3600  | 3600   | 3600  |
| 4000 (225 DEG K)    | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000   | 4000  |
| 4400 (225 DEG K)    | 4400  | 4400  | 4400  | 4400  | 4400  | 4400  | 4400  | 4400  | 4400  | 4400  | 4400  | 4400  | 4400  | 4400  | 4400   | 4400  |
| 4800 (225 DEG K)    | 4800  | 4800  | 4800  | 4800  | 4800  | 4800  | 4800  | 4800  | 4800  | 4800  | 4800  | 4800  | 4800  | 4800  | 4800   | 4800  |
| 5200 (225 DEG K)    | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200  | 5200   | 5200  |
| 5600 (225 DEG K)    | 5600  | 5600  | 5600  | 5600  | 5600  | 5600  | 5600  | 5600  | 5600  | 5600  | 5600  | 5600  | 5600  | 5600  | 5600   | 5600  |
| 6000 (225 DEG K)    | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000   | 6000  |
| 6400 (225 DEG K)    | 6400  | 6400  | 6400  | 6400  | 6400  | 6400  | 6400  | 6400  | 6400  | 6400  | 6400  | 6400  | 6400  | 6400  | 6400   | 6400  |
| 6800 (225 DEG K)    | 6800  | 6800  | 6800  | 6800  | 6800  | 6800  | 6800  | 6800  | 6800  | 6800  | 6800  | 6800  | 6800  | 6800  | 6800   | 6800  |
| 7200 (225 DEG K)    | 7200  | 7200  | 7200  | 7200  | 7200  | 7200  | 7200  | 7200  | 7200  | 7200  | 7200  | 7200  | 7200  | 7200  | 7200   | 7200  |
| 7600 (225 DEG K)    | 7600  | 7600  | 7600  | 7600  | 7600  | 7600  | 7600  | 7600  | 7600  | 7600  | 7600  | 7600  | 7600  | 7600  | 7600   | 7600  |
| 8000 (225 DEG K)    | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000   | 8000  |
| 8400 (225 DEG K)    | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   | 8400  |
| 8800 (225 DEG K)    | 8800  | 8800  | 8800  | 8800  | 8800  | 8800  | 8800  | 8800  | 8800  | 8800  | 8800  | 8800  | 8800  | 8800  | 8800   | 8800  |
| 9200 (225 DEG K)    | 9200  | 9200  | 9200  | 9200  | 9200  | 9200  | 9200  | 9200  | 9200  | 9200  | 9200  | 9200  | 9200  | 9200  | 9200   | 9200  |
| 9600 (225 DEG K)    | 9600  | 9600  | 9600  | 9600  | 9600  | 9600  | 9600  | 9600  | 9600  | 9600  | 9600  | 9600  | 9600  | 9600  | 9600   | 9600  |
| 10000 (225 DEG K)   | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000  | 10000 |
| GENERAL CALCULATION | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017    | 017   |
| GENERAL CALCULATION | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017   | 017    | 017   |

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BASE 3 FILE SCALE DATA REDUCTION PROGRAM PROC: DATE & MONTH 04 54Y 4 44: 050  
MODEL SOUND PRESSURE LEVELS (SP; DEG; F; 70 PERCENT REL; NUM; DAY) 050  
ANGLES FROM INLET IN DEGREES (AND RADIAN)

| PROC:              | 01    | 02    | 03    | 04    | 05    | 06    | 07    | 08    | 09    | 10    | 11     | 12     | 13     | 14     | 15     | 16     | 17     | 18     | 19     | 20     |        |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 20                 | (0.0) | (1.0) | (2.0) | (3.0) | (4.0) | (5.0) | (6.0) | (7.0) | (8.0) | (9.0) | (10.0) | (11.0) | (12.0) | (13.0) | (14.0) | (15.0) | (16.0) | (17.0) | (18.0) | (19.0) | (20.0) |       |
| SIDE LINE 200 FT   | 34.9  | 44.3  | 49.2  | 51.6  | 52.7  | 54.3  | 49.1  | 44.8  | 43.4  | 43.1  | 44.9   | 44.9   | 45.4   | 47.1   | 44.3   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9  |
| VEHICLE 40.0 ft. H | 39.2  | 51.7  | 53.7  | 56.8  | 57.7  | 57.3  | 53.8  | 48.8  | 45.8  | 45.6  | 47.8   | 44.9   | 45.8   | 47.4   | 45.8   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9  |
| COFFIC 73064       | 37.8  | 48.8  | 48.7  | 47.0  | 50.4  | 48.3  | 44.8  | 47.4  | 45.8  | 45.8  | 47.4   | 44.9   | 45.8   | 47.4   | 45.8   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9  |
| LCR SCREENSTAY     | 39.8  | 41.3  | 41.8  | 42.9  | 43.3  | 43.6  | 45.4  | 45.8  | 48.7  | 48.7  | 48.7   | 48.7   | 48.7   | 48.7   | 48.7   | 48.7   | 48.7   | 48.7   | 48.7   | 48.7   | 48.7   | 48.7  |
| DATE 91-31-73      | 42.7  | 44.3  | 46.9  | 47.1  | 47.3  | 48.3  | 47.3  | 48.4  | 47.3  | 48.4  | 47.3   | 48.4   | 47.3   | 48.4   | 47.3   | 48.4   | 47.3   | 48.4   | 47.3   | 48.4   | 47.3   | 48.4  |
| 000 7802           | 33.4  | 45.4  | 46.8  | 47.8  | 48.2  | 48.7  | 47.7  | 47.1  | 46.7  | 49.2  | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3  |
| TARE 80000E        | 42.4  | 45.8  | 48.8  | 46.6  | 48.2  | 51.1  | 48.8  | 48.2  | 47.8  | 47.8  | 47.8   | 47.8   | 47.8   | 47.8   | 47.8   | 47.8   | 47.8   | 47.8   | 47.8   | 47.8   | 47.8   | 47.8  |
| 30.2 H             | 31.7  | 43.8  | 45.3  | 46.6  | 47.6  | 48.9  | 48.8  | 48.2  | 47.8  | 48.3  | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3  |
| 342.0 N (12)       | 42.3  | 43.8  | 46.1  | 47.5  | 48.4  | 52.2  | 52.2  | 51.3  | 50.3  | 50.3  | 50.3   | 50.3   | 50.3   | 50.3   | 50.3   | 50.3   | 50.3   | 50.3   | 50.3   | 50.3   | 50.3   | 50.3  |
| 34.0 DEG F         | 41.9  | 43.9  | 44.3  | 46.7  | 48.6  | 52.1  | 52.1  | 51.5  | 50.5  | 50.5  | 50.5   | 50.5   | 50.5   | 50.5   | 50.5   | 50.5   | 50.5   | 50.5   | 50.5   | 50.5   | 50.5   | 50.5  |
| 1270.0 DEG K       | 40.7  | 43.8  | 44.3  | 47.8  | 49.6  | 52.4  | 52.4  | 51.9  | 51.0  | 51.0  | 51.0   | 51.0   | 51.0   | 51.0   | 51.0   | 51.0   | 51.0   | 51.0   | 51.0   | 51.0   | 51.0   | 51.0  |
| 4.0 DEG F          | 41.1  | 43.9  | 44.3  | 47.9  | 49.8  | 57.4  | 57.3  | 58.4  | 57.4  | 57.4  | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4  |
| 200.0 DEG K        | 40.2  | 43.9  | 44.3  | 48.0  | 49.9  | 57.5  | 57.5  | 58.6  | 57.5  | 57.5  | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5  |
| 0.34 N (13)        | 38.2  | 42.9  | 43.8  | 48.1  | 49.7  | 48.4  | 44.6  | 43.8  | 48.1  | 48.1  | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1  |
| 1.00031 N (13)     | 36.3  | 45.8  | 46.8  | 48.6  | 49.9  | 48.9  | 44.3  | 42.7  | 48.3  | 48.3  | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3  |
| 348.0 RPM          | 34.8  | 44.2  | 45.3  | 47.1  | 48.7  | 47.8  | 44.8  | 43.8  | 48.1  | 48.1  | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1  |
| 379.0 RAD/SEC      | 34.8  | 44.2  | 45.3  | 47.1  | 48.7  | 47.8  | 44.8  | 43.8  | 48.1  | 48.1  | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1  |
| 800 RPM            | 35.7  | 47.1  | 48.1  | 49.1  | 49.1  | 47.1  | 47.1  | 47.1  | 47.1  | 47.1  | 47.1   | 47.1   | 47.1   | 47.1   | 47.1   | 47.1   | 47.1   | 47.1   | 47.1   | 47.1   | 47.1   | 47.1  |
| 804.0 RPM (SEC)    | 36.3  | 48.4  | 49.3  | 49.3  | 48.1  | 47.1  | 47.1  | 47.1  | 47.1  | 47.1  | 47.1   | 47.1   | 47.1   | 47.1   | 47.1   | 47.1   | 47.1   | 47.1   | 47.1   | 47.1   | 47.1   | 47.1  |
| 802.0 RPM          | 37.7  | 48.9  | 49.3  | 49.3  | 48.1  | 48.1  | 48.1  | 48.1  | 48.1  | 48.1  | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1  |
| 811.0 RPM          | 38.2  | 49.3  | 49.3  | 49.3  | 48.1  | 48.1  | 48.1  | 48.1  | 48.1  | 48.1  | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1   | 48.1  |
| 821.0 RPM          | 39.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8   | 51.8   | 51.8   | 51.8   | 51.8   | 51.8   | 51.8   | 51.8   | 51.8   | 51.8   | 51.8   | 51.8  |
| 831.0 RPM          | 41.4  | 54.3  | 54.3  | 54.3  | 54.3  | 54.3  | 54.3  | 54.3  | 54.3  | 54.3  | 54.3   | 54.3   | 54.3   | 54.3   | 54.3   | 54.3   | 54.3   | 54.3   | 54.3   | 54.3   | 54.3   | 54.3  |
| 841.0 RPM          | 43.0  | 56.8  | 56.8  | 56.8  | 56.8  | 56.8  | 56.8  | 56.8  | 56.8  | 56.8  | 56.8   | 56.8   | 56.8   | 56.8   | 56.8   | 56.8   | 56.8   | 56.8   | 56.8   | 56.8   | 56.8   | 56.8  |
| 851.0 RPM          | 44.6  | 59.3  | 59.3  | 59.3  | 59.3  | 59.3  | 59.3  | 59.3  | 59.3  | 59.3  | 59.3   | 59.3   | 59.3   | 59.3   | 59.3   | 59.3   | 59.3   | 59.3   | 59.3   | 59.3   | 59.3   | 59.3  |
| 861.0 RPM          | 46.2  | 61.8  | 61.8  | 61.8  | 61.8  | 61.8  | 61.8  | 61.8  | 61.8  | 61.8  | 61.8   | 61.8   | 61.8   | 61.8   | 61.8   | 61.8   | 61.8   | 61.8   | 61.8   | 61.8   | 61.8   | 61.8  |
| 871.0 RPM          | 47.8  | 64.3  | 64.3  | 64.3  | 64.3  | 64.3  | 64.3  | 64.3  | 64.3  | 64.3  | 64.3   | 64.3   | 64.3   | 64.3   | 64.3   | 64.3   | 64.3   | 64.3   | 64.3   | 64.3   | 64.3   | 64.3  |
| 881.0 RPM          | 49.4  | 66.8  | 66.8  | 66.8  | 66.8  | 66.8  | 66.8  | 66.8  | 66.8  | 66.8  | 66.8   | 66.8   | 66.8   | 66.8   | 66.8   | 66.8   | 66.8   | 66.8   | 66.8   | 66.8   | 66.8   | 66.8  |
| 891.0 RPM          | 51.0  | 69.3  | 69.3  | 69.3  | 69.3  | 69.3  | 69.3  | 69.3  | 69.3  | 69.3  | 69.3   | 69.3   | 69.3   | 69.3   | 69.3   | 69.3   | 69.3   | 69.3   | 69.3   | 69.3   | 69.3   | 69.3  |
| 901.0 RPM          | 52.6  | 71.8  | 71.8  | 71.8  | 71.8  | 71.8  | 71.8  | 71.8  | 71.8  | 71.8  | 71.8   | 71.8   | 71.8   | 71.8   | 71.8   | 71.8   | 71.8   | 71.8   | 71.8   | 71.8   | 71.8   | 71.8  |
| 911.0 RPM          | 54.2  | 74.3  | 74.3  | 74.3  | 74.3  | 74.3  | 74.3  | 74.3  | 74.3  | 74.3  | 74.3   | 74.3   | 74.3   | 74.3   | 74.3   | 74.3   | 74.3   | 74.3   | 74.3   | 74.3   | 74.3   | 74.3  |
| 921.0 RPM          | 55.8  | 76.8  | 76.8  | 76.8  | 76.8  | 76.8  | 76.8  | 76.8  | 76.8  | 76.8  | 76.8   | 76.8   | 76.8   | 76.8   | 76.8   | 76.8   | 76.8   | 76.8   | 76.8   | 76.8   | 76.8   | 76.8  |
| 931.0 RPM          | 57.4  | 79.3  | 79.3  | 79.3  | 79.3  | 79.3  | 79.3  | 79.3  | 79.3  | 79.3  | 79.3   | 79.3   | 79.3   | 79.3   | 79.3   | 79.3   | 79.3   | 79.3   | 79.3   | 79.3   | 79.3   | 79.3  |
| 941.0 RPM          | 59.0  | 81.8  | 81.8  | 81.8  | 81.8  | 81.8  | 81.8  | 81.8  | 81.8  | 81.8  | 81.8   | 81.8   | 81.8   | 81.8   | 81.8   | 81.8   | 81.8   | 81.8   | 81.8   | 81.8   | 81.8   | 81.8  |
| 951.0 RPM          | 60.6  | 84.3  | 84.3  | 84.3  | 84.3  | 84.3  | 84.3  | 84.3  | 84.3  | 84.3  | 84.3   | 84.3   | 84.3   | 84.3   | 84.3   | 84.3   | 84.3   | 84.3   | 84.3   | 84.3   | 84.3   | 84.3  |
| 961.0 RPM          | 62.2  | 86.8  | 86.8  | 86.8  | 86.8  | 86.8  | 86.8  | 86.8  | 86.8  | 86.8  | 86.8   | 86.8   | 86.8   | 86.8   | 86.8   | 86.8   | 86.8   | 86.8   | 86.8   | 86.8   | 86.8   | 86.8  |
| 971.0 RPM          | 63.8  | 89.3  | 89.3  | 89.3  | 89.3  | 89.3  | 89.3  | 89.3  | 89.3  | 89.3  | 89.3   | 89.3   | 89.3   | 89.3   | 89.3   | 89.3   | 89.3   | 89.3   | 89.3   | 89.3   | 89.3   | 89.3  |
| 981.0 RPM          | 65.4  | 91.8  | 91.8  | 91.8  | 91.8  | 91.8  | 91.8  | 91.8  | 91.8  | 91.8  | 91.8   | 91.8   | 91.8   | 91.8   | 91.8   | 91.8   | 91.8   | 91.8   | 91.8   | 91.8   | 91.8   | 91.8  |
| 991.0 RPM          | 67.0  | 94.3  | 94.3  | 94.3  | 94.3  | 94.3  | 94.3  | 94.3  | 94.3  | 94.3  | 94.3   | 94.3   | 94.3   | 94.3   | 94.3   | 94.3   | 94.3   | 94.3   | 94.3   | 94.3   | 94.3   | 94.3  |
| 1000 RPM           | 68.6  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8  |
| 1100 RPM           | 74.2  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3   | 99.3   | 99.3   | 99.3   | 99.3   | 99.3   | 99.3   | 99.3   | 99.3   | 99.3   | 99.3   | 99.3  |
| 1200 RPM           | 79.8  | 101.8 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8  | 101.8  | 101.8  | 101.8  | 101.8  | 101.8  | 101.8  | 101.8  | 101.8  | 101.8  | 101.8  | 101.8 |

SYMBOLS: 1000 1100 1200  
 30.2 40.0 48.0



|                  | 53 | 60   | 71   | 81   | 91   | 101  | 111  | 121  | 131  | 141  | 151  | 161  | 171  | 181  | 191  | 201  | 211  | 221  | 231  | 241  | 251  | 261  | 271  | 281  | 291  | 301  |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     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|       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
|------------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| VEHICLE 2000 FV7 | 50 | 57.5 | 59.2 | 60.7 | 62.1 | 63.7 | 65.2 | 66.7 | 68.2 | 69.7 | 71.2 | 72.7 | 74.2 | 75.7 | 77.2 | 78.7 | 80.2 | 81.7 | 83.2 | 84.7 | 86.2 | 87.7 | 89.2 | 90.7 | 92.2 | 93.7 | 95.2 | 96.7 | 98.2 | 99.7 | 101.2 | 102.7 | 104.2 | 105.7 | 107.2 | 108.7 | 110.2 | 111.7 | 113.2 | 114.7 | 116.2 | 117.7 | 119.2 | 120.7 | 122.2 | 123.7 | 125.2 | 126.7 | 128.2 | 129.7 | 131.2 | 132.7 | 134.2 | 135.7 | 137.2 | 138.7 | 140.2 | 141.7 | 143.2 | 144.7 | 146.2 | 147.7 | 149.2 | 150.7 | 152.2 | 153.7 | 155.2 | 156.7 | 158.2 | 159.7 | 161.2 | 162.7 | 164.2 | 165.7 | 167.2 | 168.7 | 170.2 | 171.7 | 173.2 | 174.7 | 176.2 | 177.7 | 179.2 | 180.7 | 182.2 | 183.7 | 185.2 | 186.7 | 188.2 | 189.7 | 191.2 | 192.7 | 194.2 | 195.7 | 197.2 | 198.7 | 200.2 | 201.7 | 203.2 | 204.7 | 206.2 | 207.7 | 209.2 | 210.7 | 212.2 | 213.7 | 215.2 | 216.7 | 218.2 | 219.7 | 221.2 | 222.7 | 224.2 | 225.7 | 227.2 | 228.7 | 230.2 | 231.7 | 233.2 | 234.7 | 236.2 | 237.7 | 239.2 | 240.7 | 242.2 | 243.7 | 245.2 | 246.7 | 248.2 | 249.7 | 251.2 | 252.7 | 254.2 | 255.7 | 257.2 | 258.7 | 260.2 | 261.7 | 263.2 | 264.7 | 266.2 | 267.7 | 269.2 | 270.7 | 272.2 | 273.7 | 275.2 | 276.7 | 278.2 | 279.7 | 281.2 | 282.7 | 284.2 | 285.7 | 287.2 | 288.7 | 290.2 | 291.7 | 293.2 | 294.7 | 296.2 | 297.7 | 299.2 | 300.7 | 302.2 | 303.7 | 305.2 | 306.7 | 308.2 | 309.7 | 311.2 | 312.7 | 314.2 | 315.7 | 317.2 | 318.7 | 320.2 | 321.7 | 323.2 | 324.7 | 326.2 | 327.7 | 329.2 | 330.7 | 332.2 | 333.7 | 335.2 | 336.7 | 338.2 | 339.7 | 341.2 | 342.7 | 344.2 | 345.7 | 347.2 | 348.7 | 350.2 | 351.7 | 353.2 | 354.7 | 356.2 | 357.7 | 359.2 | 360.7 | 362.2 | 363.7 | 365.2 | 366.7 | 368.2 | 369.7 | 371.2 | 372.7 | 374.2 | 375.7 | 377.2 | 378.7 | 380.2 | 381.7 | 383.2 | 384.7 | 386.2 | 387.7 | 389.2 | 390.7 | 392.2 | 393.7 | 395.2 | 396.7 | 398.2 | 399.7 | 401.2 | 402.7 | 404.2 | 405.7 | 407.2 | 408.7 | 410.2 | 411.7 | 413.2 | 414.7 | 416.2 | 417.7 | 419.2 | 420.7 | 422.2 | 423.7 | 425.2 | 426.7 | 428.2 | 429.7 | 431.2 | 432.7 | 434.2 | 435.7 | 437.2 | 438.7 | 440.2 | 441.7 | 443.2 | 444.7 | 446.2 | 447.7 | 449.2 | 450.7 | 452.2 | 453.7 | 455.2 | 456.7 | 458.2 | 459.7 | 461.2 | 462.7 | 464.2 | 465.7 | 467.2 | 468.7 | 470.2 | 471.7 | 473.2 | 474.7 | 476.2 | 477.7 | 479.2 | 480.7 | 482.2 | 483.7 | 485.2 | 486.7 | 488.2 | 489.7 | 491.2 | 492.7 | 494.2 | 495.7 | 497.2 | 498.7 | 500.2 | 501.7 | 503.2 | 504.7 | 506.2 | 507.7 | 509.2 | 510.7 | 512.2 | 513.7 | 515.2 | 516.7 | 518.2 | 519.7 | 521.2 | 522.7 | 524.2 | 525.7 | 527.2 | 528.7 | 530.2 | 531.7 | 533.2 | 534.7 | 536.2 | 537.7 | 539.2 | 540.7 | 542.2 | 543.7 | 545.2 | 546.7 | 548.2 | 549.7 | 551.2 | 552.7 | 554.2 | 555.7 | 557.2 | 558.7 | 560.2 | 561.7 | 563.2 | 564.7 | 566.2 | 567.7 | 569.2 | 570.7 | 572.2 | 573.7 | 575.2 | 576.7 | 578.2 | 579.7 | 581.2 | 582.7 | 584.2 | 585.7 | 587.2 | 588.7 | 590.2 | 591.7 | 593.2 | 594.7 | 596.2 | 597.7 | 599.2 | 600.7 | 602.2 | 603.7 | 605.2 | 606.7 | 608.2 | 609.7 | 611.2 | 612.7 | 614.2 | 615.7 | 617.2 | 618.7 | 620.2 | 621.7 | 623.2 | 624.7 | 626.2 | 627.7 | 629.2 | 630.7 | 632.2 | 633.7 | 635.2 | 636.7 | 638.2 | 639.7 | 641.2 | 642.7 | 644.2 | 645.7 | 647.2 | 648.7 | 650.2 | 651.7 | 653.2 | 654.7 | 656.2 | 657.7 | 659.2 | 660.7 | 662.2 | 663.7 | 665.2 | 666.7 | 668.2 | 669.7 | 671.2 | 672.7 | 674.2 | 675.7 | 677.2 | 678.7 | 680.2 | 681.7 | 683.2 | 684.7 | 686.2 | 687.7 | 689.2 | 690.7 | 692.2 | 693.7 | 695.2 | 696.7 | 698.2 | 699.7 | 700.2 | 701.7 | 703.2 | 704.7 | 706.2 | 707.7 | 709.2 | 710.7 | 712.2 | 713.7 | 715.2 | 716.7 | 718.2 | 719.7 | 721.2 | 722.7 | 724.2 | 725.7 | 727.2 | 728.7 | 730.2 | 731.7 | 733.2 | 734.7 | 736.2 | 737.7 | 739.2 | 740.7 | 742.2 | 743.7 | 745.2 | 746.7 | 748.2 | 749.7 | 751.2 | 752.7 | 754.2 | 755.7 | 757.2 | 758.7 | 760.2 | 761.7 | 763.2 | 764.7 | 766.2 | 767.7 | 769.2 | 770.7 | 772.2 | 773.7 | 775.2 | 776.7 | 778.2 | 779.7 | 781.2 | 782.7 | 784.2 | 785.7 | 787.2 | 788.7 | 790.2 | 791.7 | 793.2 | 794.7 | 796.2 | 797.7 | 799.2 | 800.7 | 802.2 | 803.7 | 805.2 | 806.7 | 808.2 | 809.7 | 811.2 | 812.7 | 814.2 | 815.7 | 817.2 | 818.7 | 820.2 | 821.7 | 823.2 | 824.7 | 826.2 | 827.7 | 829.2 | 830.7 | 832.2 | 833.7 | 835.2 | 836.7 | 838.2 | 839.7 | 841.2 | 842.7 | 844.2 | 845.7 | 847.2 | 848.7 | 850.2 | 851.7 | 853.2 | 854.7 | 856.2 | 857.7 | 859.2 | 860.7 | 862.2 | 863.7 | 865.2 | 866.7 | 868.2 | 869.7 | 871.2 | 872.7 | 874.2 | 875.7 | 877.2 | 878.7 | 880.2 | 881.7 | 883.2 | 884.7 | 886.2 | 887.7 | 889.2 | 890.7 | 892.2 | 893.7 | 895.2 | 896.7 | 898.2 | 899.7 | 900.2 | 901.7 | 903.2 | 904.7 | 906.2 | 907.7 | 909.2 | 910.7 | 912.2 | 913.7 | 915.2 | 916.7 | 918.2 | 919.7 | 921.2 | 922.7 | 924.2 | 925.7 | 927.2 | 928.7 | 930.2 | 931.7 | 933.2 | 934.7 | 936.2 | 937.7 | 939.2 | 940.7 | 942.2 | 943.7 | 945.2 | 946.7 | 948.2 | 949.7 | 951.2 | 952.7 | 954.2 | 955.7 | 957.2 | 958.7 | 960.2 | 961.7 | 963.2 | 964.7 | 966.2 | 967.7 | 969.2 | 970.7 | 972.2 | 973.7 | 975.2 | 976.7 | 978.2 | 979.7 | 981.2 | 982.7 | 984.2 | 985.7 | 987.2 | 988.7 | 990.2 | 991.7 | 993.2 | 994.7 | 996.2 | 997.7 | 999.2 | 1000.7 |



PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (90' DEG' F; 70 PERCENT REL. HUM; DAT) PROC. DATE - MONTH 30 DAY 68  
 ANGLES FROM 1MILE IN DEGREES (AND RADIANS)

|                      | 51     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 143    | 154    | 164    | 174    | 184    | 194    | 204    |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                      | (0.89) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.94) | (3.16) | (3.38) | (3.61) | (3.84) |
| SIDELINE 200' RT     | 30.8   | 41.5   | 41.9   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| VEHICLE 8055         | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| SCNFC 7300A          | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| LOG SCENECTADY       | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| DATE 82-31-75        | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| SUB 7-3              | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| TABE 80002           | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| BAR 30.1 M           | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| CR1342. M/21         | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| YAB 30.1 DSO F       | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| (273. DE3 K)         | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| YAB 30.1 DE3 F       | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| (273. DE3 K)         | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| UACT 0.00 CM/MS      | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| 4.00007. KD/MS       | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| WFB 7011. RPN        | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| ( 734. RAD/SEC)      | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| WFB 7029. RPN        | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| ( 732. RAD/SEC)      | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| WFB 8023. RPN        | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| ( 724. RAD/SEC)      | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| SS OF SLABS 30       | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| LAN TIC SPEED        | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| 613. FT/SEC          | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| 31000                | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| 40000                | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| 50000                | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| 63000                | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| 80000                | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| GENERAL SA, COL 4700 | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |
| 7000                 | 30.8   | 41.5   | 41.7   | 43.0   | 44.9   | 47.0   | 47.0   | 48.7   | 49.7   | 51.0   | 52.0   | 52.9   | 53.8   | 54.7   | 55.6   | 56.5   |

03

BASE 1 FULL SCALE DATA REDUCTION PROGRAM PROC DATE & MONTH JA 84 8 00  
 MODEL SOUND PRESSURE LEVELS (50, DEG, F, 70 PERCENT REL, MUS, DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

| PARAMETER          | PRESSURE LEVELS (dB) |      |       |       |       |       |       |       |       |       |       |     |     |     |     |       |
|--------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|
|                    | 53                   | 62   | 71    | 81    | 91    | 101   | 111   | 122   | 133   | 145   | 158   | 171 | 184 | 198 | 212 | 227   |
| ADJAL 17, FT.      | 85.4                 | 85.4 | 86.2  | 87.5  | 88.0  | 78.2  | 73.5  | 74.7  | 76.9  | 85.8  | 85.4  |     |     |     |     | 118.8 |
| VEHICLE R358       | 87.4                 | 91.0 | 71.8  | 72.0  | 73.0  | 78.0  | 73.5  | 74.5  | 78.0  | 82.1  | 86.7  |     |     |     |     | 111.7 |
| SCHFIG 7906A       | 129                  | 74.7 | 77.3  | 77.1  | 76.8  | 77.1  | 78.8  | 80.1  | 80.8  | 82.7  | 86.8  |     |     |     |     | 113.9 |
| LCE SCHEVEGYADY    | 180                  | 73.6 | 74.0  | 74.0  | 75.0  | 74.8  | 77.8  | 79.3  | 81.5  | 83.9  | 86.2  |     |     |     |     | 114.4 |
| DATE 81-31-75      | 280                  | 72.5 | 72.8  | 73.1  | 74.8  | 76.9  | 81.9  | 79.1  | 80.9  | 82.1  | 85.8  |     |     |     |     | 114.6 |
| BUB 7204           | 240                  | 70.8 | 70.0  | 81.8  | 82.1  | 82.6  | 85.8  | 84.3  | 85.9  | 88.1  | 87.8  |     |     |     |     | 119.8 |
| YARE 3000Z         | 318                  | 78.0 | 78.3  | 78.1  | 78.9  | 79.4  | 82.4  | 82.1  | 82.1  | 82.1  | 83.7  |     |     |     |     | 115.6 |
| BAR 3012 MB        | 400                  | 77.2 | 76.7  | 76.3  | 78.0  | 78.0  | 81.2  | 81.2  | 81.2  | 82.1  | 82.9  |     |     |     |     | 114.2 |
| 401342: K/M2       | 500                  | 76.4 | 74.9  | 75.7  | 76.5  | 77.7  | 81.2  | 81.2  | 81.7  | 82.5  | 83.3  |     |     |     |     | 114.4 |
| YARD 39: DB3 F     | 680                  | 78.3 | 73.8  | 76.9  | 78.8  | 79.9  | 84.4  | 82.8  | 83.9  | 84.2  | 84.8  |     |     |     |     | 118.1 |
| (279: DB3 K)       | 890                  | 77.1 | 75.9  | 76.7  | 78.4  | 79.7  | 82.9  | 82.4  | 83.5  | 83.5  | 82.7  |     |     |     |     | 113.3 |
| VLET 29: DB3 F     | 1080                 | 73.3 | 74.3  | 75.6  | 77.6  | 78.6  | 83.1  | 82.1  | 82.2  | 84.4  | 82.7  |     |     |     |     | 113.3 |
| (287: DB3 K)       | 1230                 | 73.1 | 73.2  | 74.9  | 76.7  | 78.4  | 81.7  | 81.1  | 82.0  | 83.8  | 82.3  |     |     |     |     | 114.2 |
| MAT 8-88: DB3 F    | 1000                 | 73.0 | 74.0  | 74.9  | 76.4  | 77.8  | 85.8  | 85.2  | 86.4  | 82.4  | 82.7  |     |     |     |     | 118.2 |
| (10088: DB3 K)     | 2000                 | 72.9 | 73.9  | 75.1  | 76.0  | 78.2  | 81.1  | 80.8  | 80.5  | 82.5  | 80.9  |     |     |     |     | 117.3 |
| EP 7783: DB3 F     | 2500                 | 71.8 | 71.9  | 73.0  | 74.4  | 78.6  | 81.0  | 78.7  | 77.2  | 79.6  | 77.8  |     |     |     |     | 111.8 |
| (813: RAD/SEC)     | 3150                 | 71.3 | 71.9  | 74.1  | 75.9  | 78.6  | 81.8  | 78.7  | 78.2  | 81.2  | 78.4  |     |     |     |     | 112.4 |
| BPK 7970: DB3 F    | 4000                 | 71.0 | 71.6  | 73.0  | 76.9  | 79.1  | 81.2  | 80.7  | 81.4  | 82.9  | 82.1  |     |     |     |     | 114.8 |
| (828: RAD/SEC)     | 5000                 | 70.8 | 71.3  | 73.3  | 75.9  | 78.0  | 81.7  | 82.6  | 84.4  | 87.9  | 82.8  |     |     |     |     | 113.8 |
| BFB 8033: DB3 F    | 6300                 | 72.1 | 73.8  | 75.7  | 78.7  | 81.2  | 83.9  | 87.8  | 90.3  | 91.7  | 84.4  |     |     |     |     | 118.2 |
| (823: RAD/SEC)     | 8000                 | 71.6 | 74.6  | 76.2  | 81.1  | 82.8  | 85.0  | 89.2  | 91.5  | 91.8  | 86.8  |     |     |     |     | 121.4 |
| BC: OF BLADE SPEED | 10000                | 70.4 | 72.2  | 74.8  | 77.1  | 78.9  | 82.2  | 85.2  | 88.1  | 90.5  | 82.7  |     |     |     |     | 118.1 |
| (679: FT/SEC)      | 12500                | 72.5 | 74.6  | 77.7  | 81.0  | 84.1  | 88.1  | 91.0  | 91.5  | 91.5  | 85.3  |     |     |     |     | 121.5 |
| 20000              | 72.7                 | 73.3 | 79.1  | 82.3  | 85.8  | 84.8  | 88.3  | 92.6  | 92.6  | 85.8  | 80.2  |     |     |     |     | 122.7 |
| 30000              | 73.3                 | 74.7 | 80.3  | 83.1  | 86.7  | 89.8  | 92.7  | 94.7  | 93.1  | 88.7  | 81.6  |     |     |     |     | 125.4 |
| 40000              | 71.6                 | 74.1 | 77.8  | 80.5  | 85.2  | 83.8  | 91.2  | 94.4  | 93.3  | 89.9  | 82.8  |     |     |     |     | 123.8 |
| 50000              | 88.4                 | 72.8 | 74.8  | 78.8  | 82.2  | 86.9  | 89.1  | 91.9  | 91.1  | 85.6  | 77.8  |     |     |     |     | 123.6 |
| 60000              | 86.8                 | 80.1 | 71.2  | 75.8  | 78.2  | 78.9  | 85.7  | 87.9  | 88.8  | 83.4  | 71.7  |     |     |     |     | 121.2 |
| 70000              | 81.8                 | 83.8 | 64.2  | 67.7  | 71.1  | 69.8  | 78.3  | 79.6  | 80.1  | 75.8  | 63.3  |     |     |     |     | 115.3 |
| 80000              | 87.1                 | 87.4 | 85.9  | 87.7  | 88.8  | 88.4  | 87.7  | 88.7  | 88.3  | 84.3  | 81.3  |     |     |     |     | 120.1 |
| 90000              | 83.1                 | 83.5 | 81.1  | 80.3  | 80.4  | 83.2  | 81.5  | 81.1  | 80.9  | 80.8  | 80.7  |     |     |     |     | 120.4 |
| OVERALL MEASURED   |                      |      |       |       |       |       |       |       |       |       |       |     |     |     |     |       |
| OVERALL CALCULATED |                      |      |       |       |       |       |       |       |       |       |       |     |     |     |     |       |
| PMR                | 88.8                 | 89.1 | 80.7  | 82.8  | 85.8  | 84.7  | 102.1 | 102.2 | 103.1 | 88.8  | 87.7  |     |     |     |     | 83.8  |
|                    | 78.2                 | 78.7 | 108.3 | 102.5 | 104.5 | 107.1 | 108.3 | 138.5 | 132.1 | 108.8 | 108.2 |     |     |     |     |       |

2

PRES. 51 62 71 81 91 101 111 121 131 141 151 161 171 181 191  
(2.72) (3.00) (3.24) (3.41) (3.58) (3.76) (3.94) (4.13) (4.32) (4.52) (4.73) (4.95) (5.18) (5.42) (5.67)

|         |       |        |      |      |      |      |      |      |      |      |      |      |      |
|---------|-------|--------|------|------|------|------|------|------|------|------|------|------|------|
| VEHICLE | 2000  | 80     | 81.8 | 82.0 | 84.2 | 85.8 | 86.9 | 90.5 | 92.8 | 92.7 | 92.4 | 94.4 | 95.2 |
| VEHICLE | 1959  | 100    | 83.7 | 88.2 | 89.9 | 90.3 | 91.4 | 94.3 | 91.3 | 92.5 | 93.4 | 95.4 | 96.7 |
| VEHICLE | 1959  | 125    | 84.0 | 84.5 | 84.9 | 85.1 | 85.4 | 87.8 | 88.8 | 88.9 | 88.3 | 88.2 | 88.3 |
| VEHICLE | 1966  | 150    | 89.8 | 91.4 | 91.8 | 93.2 | 93.8 | 95.9 | 95.4 | 96.0 | 96.9 | 97.8 | 98.8 |
| VEHICLE | 1975  | 200    | 88.6 | 88.6 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 |
| VEHICLE | 1975  | 225    | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 |
| VEHICLE | 1975  | 300    | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 |
| VEHICLE | 1975  | 400    | 83.4 | 83.3 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 |
| VEHICLE | 1975  | 500    | 82.8 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 |
| VEHICLE | 1975  | 600    | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 800    | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 1000   | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 1250   | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 1500   | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 2000   | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 2500   | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 3000   | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 4000   | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 5000   | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 6000   | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 8000   | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 10000  | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 12500  | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 15000  | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 20000  | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 25000  | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 30000  | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 40000  | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 50000  | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 60000  | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 80000  | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| VEHICLE | 1975  | 100000 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| OVERALL | AVG   | 82.8   | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| OVERALL | PM2.5 | 82.8   | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |





RARE 3 FILE SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (50, DEG, F, 70 PERCENT REL. HUM, DAY)

PROC. DATE & MONTH TO BEY. & NR. 0:0

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | 00  | 01    | 02    | 03    | 04    | 05    | 06    | 07    | 08    | 09    | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    | 44    | 45    | 46    | 47    | 48    | 49    | 50    | 51    | 52    | 53    | 54    | 55    | 56    | 57    | 58    | 59    | 60    | 61    | 62    | 63    | 64    | 65    | 66    | 67    | 68    | 69    | 70    | 71    | 72    | 73    | 74    | 75    | 76    | 77    | 78    | 79    | 80    | 81    | 82    | 83    | 84    | 85    | 86    | 87    | 88    | 89    | 90    | 91    | 92    | 93    | 94    | 95    | 96    | 97    | 98    | 99    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SIDE LINE 2000 (FT) | 80  | 81.0  | 82.0  | 83.0  | 84.0  | 85.0  | 86.0  | 87.0  | 88.0  | 89.0  | 90.0  | 91.0  | 92.0  | 93.0  | 94.0  | 95.0  | 96.0  | 97.0  | 98.0  | 99.0  | 100.0 | 101.0 | 102.0 | 103.0 | 104.0 | 105.0 | 106.0 | 107.0 | 108.0 | 109.0 | 110.0 | 111.0 | 112.0 | 113.0 | 114.0 | 115.0 | 116.0 | 117.0 | 118.0 | 119.0 | 120.0 | 121.0 | 122.0 | 123.0 | 124.0 | 125.0 | 126.0 | 127.0 | 128.0 | 129.0 | 130.0 | 131.0 | 132.0 | 133.0 | 134.0 | 135.0 | 136.0 | 137.0 | 138.0 | 139.0 | 140.0 | 141.0 | 142.0 | 143.0 | 144.0 | 145.0 | 146.0 | 147.0 | 148.0 | 149.0 | 150.0 | 151.0 | 152.0 | 153.0 | 154.0 | 155.0 | 156.0 | 157.0 | 158.0 | 159.0 | 160.0 | 161.0 | 162.0 | 163.0 | 164.0 | 165.0 | 166.0 | 167.0 | 168.0 | 169.0 | 170.0 | 171.0 | 172.0 | 173.0 | 174.0 | 175.0 | 176.0 | 177.0 | 178.0 | 179.0 | 180.0 | 181.0 | 182.0 | 183.0 | 184.0 | 185.0 | 186.0 | 187.0 | 188.0 | 189.0 | 190.0 | 191.0 | 192.0 | 193.0 | 194.0 | 195.0 | 196.0 | 197.0 | 198.0 | 199.0 | 200.0 |
| VEHICLE RC55        | 100 | 101.0 | 102.0 | 103.0 | 104.0 | 105.0 | 106.0 | 107.0 | 108.0 | 109.0 | 110.0 | 111.0 | 112.0 | 113.0 | 114.0 | 115.0 | 116.0 | 117.0 | 118.0 | 119.0 | 120.0 | 121.0 | 122.0 | 123.0 | 124.0 | 125.0 | 126.0 | 127.0 | 128.0 | 129.0 | 130.0 | 131.0 | 132.0 | 133.0 | 134.0 | 135.0 | 136.0 | 137.0 | 138.0 | 139.0 | 140.0 | 141.0 | 142.0 | 143.0 | 144.0 | 145.0 | 146.0 | 147.0 | 148.0 | 149.0 | 150.0 | 151.0 | 152.0 | 153.0 | 154.0 | 155.0 | 156.0 | 157.0 | 158.0 | 159.0 | 160.0 | 161.0 | 162.0 | 163.0 | 164.0 | 165.0 | 166.0 | 167.0 | 168.0 | 169.0 | 170.0 | 171.0 | 172.0 | 173.0 | 174.0 | 175.0 | 176.0 | 177.0 | 178.0 | 179.0 | 180.0 | 181.0 | 182.0 | 183.0 | 184.0 | 185.0 | 186.0 | 187.0 | 188.0 | 189.0 | 190.0 | 191.0 | 192.0 | 193.0 | 194.0 | 195.0 | 196.0 | 197.0 | 198.0 | 199.0 | 200.0 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| CONFIG 7386A        | 100 | 101.0 | 102.0 | 103.0 | 104.0 | 105.0 | 106.0 | 107.0 | 108.0 | 109.0 | 110.0 | 111.0 | 112.0 | 113.0 | 114.0 | 115.0 | 116.0 | 117.0 | 118.0 | 119.0 | 120.0 | 121.0 | 122.0 | 123.0 | 124.0 | 125.0 | 126.0 | 127.0 | 128.0 | 129.0 | 130.0 | 131.0 | 132.0 | 133.0 | 134.0 | 135.0 | 136.0 | 137.0 | 138.0 | 139.0 | 140.0 | 141.0 | 142.0 | 143.0 | 144.0 | 145.0 | 146.0 | 147.0 | 148.0 | 149.0 | 150.0 | 151.0 | 152.0 | 153.0 | 154.0 | 155.0 | 156.0 | 157.0 | 158.0 | 159.0 | 160.0 | 161.0 | 162.0 | 163.0 | 164.0 | 165.0 | 166.0 | 167.0 | 168.0 | 169.0 | 170.0 | 171.0 | 172.0 | 173.0 | 174.0 | 175.0 | 176.0 | 177.0 | 178.0 | 179.0 | 180.0 | 181.0 | 182.0 | 183.0 | 184.0 | 185.0 | 186.0 | 187.0 | 188.0 | 189.0 | 190.0 | 191.0 | 192.0 | 193.0 | 194.0 | 195.0 | 196.0 | 197.0 | 198.0 | 199.0 | 200.0 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| LOG SCHEMECTADZ     | 200 | 201.0 | 202.0 | 203.0 | 204.0 | 205.0 | 206.0 | 207.0 | 208.0 | 209.0 | 210.0 | 211.0 | 212.0 | 213.0 | 214.0 | 215.0 | 216.0 | 217.0 | 218.0 | 219.0 | 220.0 | 221.0 | 222.0 | 223.0 | 224.0 | 225.0 | 226.0 | 227.0 | 228.0 | 229.0 | 230.0 | 231.0 | 232.0 | 233.0 | 234.0 | 235.0 | 236.0 | 237.0 | 238.0 | 239.0 | 240.0 | 241.0 | 242.0 | 243.0 | 244.0 | 245.0 | 246.0 | 247.0 | 248.0 | 249.0 | 250.0 | 251.0 | 252.0 | 253.0 | 254.0 | 255.0 | 256.0 | 257.0 | 258.0 | 259.0 | 260.0 | 261.0 | 262.0 | 263.0 | 264.0 | 265.0 | 266.0 | 267.0 | 268.0 | 269.0 | 270.0 | 271.0 | 272.0 | 273.0 | 274.0 | 275.0 | 276.0 | 277.0 | 278.0 | 279.0 | 280.0 | 281.0 | 282.0 | 283.0 | 284.0 | 285.0 | 286.0 | 287.0 | 288.0 | 289.0 | 290.0 | 291.0 | 292.0 | 293.0 | 294.0 | 295.0 | 296.0 | 297.0 | 298.0 | 299.0 | 300.0 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BASE 00V31-75       | 200 | 201.0 | 202.0 | 203.0 | 204.0 | 205.0 | 206.0 | 207.0 | 208.0 | 209.0 | 210.0 | 211.0 | 212.0 | 213.0 | 214.0 | 215.0 | 216.0 | 217.0 | 218.0 | 219.0 | 220.0 | 221.0 | 222.0 | 223.0 | 224.0 | 225.0 | 226.0 | 227.0 | 228.0 | 229.0 | 230.0 | 231.0 | 232.0 | 233.0 | 234.0 | 235.0 | 236.0 | 237.0 | 238.0 | 239.0 | 240.0 | 241.0 | 242.0 | 243.0 | 244.0 | 245.0 | 246.0 | 247.0 | 248.0 | 249.0 | 250.0 | 251.0 | 252.0 | 253.0 | 254.0 | 255.0 | 256.0 | 257.0 | 258.0 | 259.0 | 260.0 | 261.0 | 262.0 | 263.0 | 264.0 | 265.0 | 266.0 | 267.0 | 268.0 | 269.0 | 270.0 | 271.0 | 272.0 | 273.0 | 274.0 | 275.0 | 276.0 | 277.0 | 278.0 | 279.0 | 280.0 | 281.0 | 282.0 | 283.0 | 284.0 | 285.0 | 286.0 | 287.0 | 288.0 | 289.0 | 290.0 | 291.0 | 292.0 | 293.0 | 294.0 | 295.0 | 296.0 | 297.0 | 298.0 | 299.0 | 300.0 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BUB 7309            | 300 | 301.0 | 302.0 | 303.0 | 304.0 | 305.0 | 306.0 | 307.0 | 308.0 | 309.0 | 310.0 | 311.0 | 312.0 | 313.0 | 314.0 | 315.0 | 316.0 | 317.0 | 318.0 | 319.0 | 320.0 | 321.0 | 322.0 | 323.0 | 324.0 | 325.0 | 326.0 | 327.0 | 328.0 | 329.0 | 330.0 | 331.0 | 332.0 | 333.0 | 334.0 | 335.0 | 336.0 | 337.0 | 338.0 | 339.0 | 340.0 | 341.0 | 342.0 | 343.0 | 344.0 | 345.0 | 346.0 | 347.0 | 348.0 | 349.0 | 350.0 | 351.0 | 352.0 | 353.0 | 354.0 | 355.0 | 356.0 | 357.0 | 358.0 | 359.0 | 360.0 | 361.0 | 362.0 | 363.0 | 364.0 | 365.0 | 366.0 | 367.0 | 368.0 | 369.0 | 370.0 | 371.0 | 372.0 | 373.0 | 374.0 | 375.0 | 376.0 | 377.0 | 378.0 | 379.0 | 380.0 | 381.0 | 382.0 | 383.0 | 384.0 | 385.0 | 386.0 | 387.0 | 388.0 | 389.0 | 390.0 | 391.0 | 392.0 | 393.0 | 394.0 | 395.0 | 396.0 | 397.0 | 398.0 | 399.0 | 400.0 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| TYPE 80000Z         | 400 | 401.0 | 402.0 | 403.0 | 404.0 | 405.0 | 406.0 | 407.0 | 408.0 | 409.0 | 410.0 | 411.0 | 412.0 | 413.0 | 414.0 | 415.0 | 416.0 | 417.0 | 418.0 | 419.0 | 420.0 | 421.0 | 422.0 | 423.0 | 424.0 | 425.0 | 426.0 | 427.0 | 428.0 | 429.0 | 430.0 | 431.0 | 432.0 | 433.0 | 434.0 | 435.0 | 436.0 | 437.0 | 438.0 | 439.0 | 440.0 | 441.0 | 442.0 | 443.0 | 444.0 | 445.0 | 446.0 | 447.0 | 448.0 | 449.0 | 450.0 | 451.0 | 452.0 | 453.0 | 454.0 | 455.0 | 456.0 | 457.0 | 458.0 | 459.0 | 460.0 | 461.0 | 462.0 | 463.0 | 464.0 | 465.0 | 466.0 | 467.0 | 468.0 | 469.0 | 470.0 | 471.0 | 472.0 | 473.0 | 474.0 | 475.0 | 476.0 | 477.0 | 478.0 | 479.0 | 480.0 | 481.0 | 482.0 | 483.0 | 484.0 | 485.0 | 486.0 | 487.0 | 488.0 | 489.0 | 490.0 | 491.0 | 492.0 | 493.0 | 494.0 | 495.0 | 496.0 | 497.0 | 498.0 | 499.0 | 500.0 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| SAB 3071 M0         | 500 | 501.0 | 502.0 | 503.0 | 504.0 | 505.0 | 506.0 | 507.0 | 508.0 | 509.0 | 510.0 | 511.0 | 512.0 | 513.0 | 514.0 | 515.0 | 516.0 | 517.0 | 518.0 | 519.0 | 520.0 | 521.0 | 522.0 | 523.0 | 524.0 | 525.0 | 526.0 | 527.0 | 528.0 | 529.0 | 530.0 | 531.0 | 532.0 | 533.0 | 534.0 | 535.0 | 536.0 | 537.0 | 538.0 | 539.0 | 540.0 | 541.0 | 542.0 | 543.0 | 544.0 | 545.0 | 546.0 | 547.0 | 548.0 | 549.0 | 550.0 | 551.0 | 552.0 | 553.0 | 554.0 | 555.0 | 556.0 | 557.0 | 558.0 | 559.0 | 560.0 | 561.0 | 562.0 | 563.0 | 564.0 | 565.0 | 566.0 | 567.0 | 568.0 | 569.0 | 570.0 | 571.0 | 572.0 | 573.0 | 574.0 | 575.0 | 576.0 | 577.0 | 578.0 | 579.0 | 580.0 | 581.0 | 582.0 | 583.0 | 584.0 | 585.0 | 586.0 | 587.0 | 588.0 | 589.0 | 590.0 | 591.0 | 592.0 | 593.0 | 594.0 | 595.0 | 596.0 | 597.0 | 598.0 | 599.0 | 600.0 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 201302, M/M2)       | 600 | 601.0 | 602.0 | 603.0 | 604.0 | 605.0 | 606.0 | 607.0 | 608.0 | 609.0 | 610.0 | 611.0 | 612.0 | 613.0 | 614.0 | 615.0 | 616.0 | 617.0 | 618.0 | 619.0 | 620.0 | 621.0 | 622.0 | 623.0 | 624.0 | 625.0 | 626.0 | 627.0 | 628.0 | 629.0 | 630.0 | 631.0 | 632.0 | 633.0 | 634.0 | 635.0 | 636.0 | 637.0 | 638.0 | 639.0 | 640.0 | 641.0 | 642.0 | 643.0 | 644.0 | 645.0 | 646.0 | 647.0 | 648.0 | 649.0 | 650.0 | 651.0 | 652.0 | 653.0 | 654.0 | 655.0 | 656.0 | 657.0 | 658.0 | 659.0 | 660.0 | 661.0 | 662.0 | 663.0 | 664.0 | 665.0 | 666.0 | 667.0 | 668.0 | 669.0 | 670.0 | 671.0 | 672.0 | 673.0 | 674.0 | 675.0 | 676.0 | 677.0 | 678.0 | 679.0 | 680.0 | 681.0 | 682.0 | 683.0 | 684.0 | 685.0 | 686.0 | 687.0 | 688.0 | 689.0 | 690.0 | 691.0 | 692.0 | 693.0 | 694.0 | 695.0 | 696.0 | 697.0 | 698.0 | 699.0 | 700.0 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 301, D00 F          | 700 | 701.0 | 702.0 | 703.0 | 704.0 | 705.0 | 706.0 | 707.0 | 708.0 | 709.0 | 710.0 | 711.0 | 712.0 | 713.0 | 714.0 | 715.0 | 716.0 | 717.0 | 718.0 | 719.0 | 720.0 | 721.0 | 722.0 | 723.0 | 724.0 | 725.0 | 726.0 | 727.0 | 728.0 | 729.0 | 730.0 | 731.0 | 732.0 | 733.0 | 734.0 | 735.0 | 736.0 | 737.0 | 738.0 | 739.0 | 740.0 | 741.0 | 742.0 | 743.0 | 744.0 | 745.0 | 746.0 | 747.0 | 748.0 | 749.0 | 750.0 | 751.0 | 752.0 | 753.0 | 754.0 | 755.0 | 756.0 | 757.0 | 758.0 | 759.0 | 760.0 | 761.0 | 762.0 | 763.0 | 764.0 | 765.0 | 766.0 | 767.0 | 768.0 | 769.0 | 770.0 | 771.0 | 772.0 | 773.0 | 774.0 | 775.0 | 776.0 | 777.0 | 778.0 | 779.0 | 780.0 | 781.0 | 782.0 | 783.0 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (90 DEG F, 70 PERCENT REL. HUM, DAY)  
PROG. DATE 4 MONTH 02 DAY 0 RR 0:6  
ANGLES FROM INLET IN DEGREE (AND RADIANS)

FREQ. 93. 62. 71. 81. 91. 101. 111. 122. 133. 144. 156. 168. 180. 192. 204. 216. 228. 240. 252. 264. 276. 288. 300. PNL:  
(0.72)(1.09)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(2.94)(3.16)(3.39)(3.63)(3.88)(4.14)(4.41)(4.69)(4.97)(5.26)(5.56)(5.87)

|                     | 93   | 62   | 71   | 81   | 91   | 101  | 111   | 122   | 133   | 144   | 156  | 168 | 180 | 192 | 204 | 216 | 228 | 240 | 252 | 264 | 276 | 288 | 300 | PNL |       |       |
|---------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| RADIAL 17 FT.       | 87.4 | 68.9 | 71.7 | 73.2 | 73.5 | 74.5 | 71.2  | 68.7  | 68.2  | 72.1  | 73.9 |     |     |     |     |     |     |     |     |     |     |     |     |     | 105.8 |       |
| VEHICLE R855        | 72.9 | 75.0 | 77.5 | 79.0 | 79.3 | 80.5 | 72.8  | 69.5  | 70.8  | 75.1  | 76.5 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 111.2 |
| SONFIG 7596A        | 84.0 | 68.5 | 71.6 | 69.3 | 70.3 | 69.1 | 67.8  | 70.8  | 71.7  | 74.0  | 74.0 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 104.3 |
| LOG SCHENECTADY     | 83.7 | 64.2 | 64.5 | 65.0 | 64.9 | 68.8 | 67.0  | 68.0  | 70.5  | 72.4  | 74.2 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 102.4 |
| DATE 61-31-75       | 83.5 | 63.8 | 64.6 | 65.4 | 66.4 | 69.9 | 69.6  | 70.6  | 71.9  | 74.5  | 73.8 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 104.1 |
| SUN 72-6            | 87.0 | 68.0 | 69.4 | 69.1 | 69.9 | 72.4 | 71.4  | 70.9  | 71.9  | 72.7  | 73.3 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 109.9 |
| TARE                | 86.7 | 68.2 | 69.5 | 69.3 | 70.0 | 72.3 | 71.0  | 71.5  | 72.5  | 73.1  | 73.0 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 105.0 |
| BAR 36.1 HG         | 85.6 | 66.9 | 67.9 | 68.3 | 69.4 | 72.4 | 72.4  | 72.4  | 73.2  | 73.9  | 74.0 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 105.4 |
| 001342, N/42        | 87.6 | 67.6 | 68.9 | 70.1 | 71.6 | 74.9 | 75.1  | 76.2  | 75.4  | 76.8  | 75.0 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 102.5 |
| TAMB 35 DEG F       | 86.3 | 67.4 | 67.7 | 69.7 | 70.9 | 73.9 | 74.4  | 75.0  | 75.7  | 75.8  | 71.6 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 106.9 |
| (275 DEG K)         | 85.3 | 65.9 | 66.4 | 70.4 | 71.6 | 75.4 | 76.3  | 76.9  | 77.7  | 78.2  | 71.5 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 104.5 |
| TMET 29 DEG F       | 87.4 | 67.9 | 72.7 | 76.9 | 76.7 | 79.4 | 80.9  | 82.7  | 83.6  | 81.8  | 75.3 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 113.4 |
| (249 DEG K)         | 83.7 | 66.3 | 68.1 | 70.4 | 70.8 | 74.0 | 75.5  | 76.1  | 76.4  | 76.5  | 78.2 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 107.7 |
| WAST 0.69 GM/H3     | 80.9 | 62.9 | 63.9 | 64.7 | 66.4 | 68.4 | 68.8  | 67.7  | 66.5  | 68.1  | 65.0 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 109.6 |
| 0.0669 KG/H3        | 81.8 | 63.6 | 66.1 | 66.9 | 68.8 | 71.5 | 75.2  | 67.4  | 67.6  | 67.1  | 65.0 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 102.1 |
| RPM 3457            | 85.8 | 61.2 | 65.1 | 64.7 | 66.6 | 70.0 | 75.2  | 68.7  | 70.5  | 71.9  | 66.5 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 107.6 |
| (371 RAD/SEC)       | 81.8 | 63.1 | 64.3 | 66.2 | 68.6 | 71.0 | 73.4  | 73.2  | 73.0  | 74.0  | 70.9 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 107.4 |
| RPM 5988            | 82.8 | 63.3 | 65.5 | 67.1 | 70.8 | 73.4 | 77.1  | 77.6  | 80.2  | 79.1  | 71.6 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 109.2 |
| (585 RAD/SEC)       | 83.2 | 64.8 | 69.0 | 68.7 | 71.7 | 73.6 | 78.3  | 80.8  | 82.8  | 79.8  | 72.4 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 111.8 |
| RPM 8823            | 82.4 | 64.6 | 69.2 | 69.1 | 71.7 | 74.0 | 78.2  | 81.5  | 81.5  | 79.7  | 72.6 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 111.2 |
| (923 RAD/SEC)       | 86.1 | 65.2 | 72.9 | 76.8 | 78.3 | 78.4 | 82.9  | 83.6  | 83.6  | 79.7  | 73.6 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 114.3 |
| NO. OF BLADES 3     | 76.0 | 79.1 | 82.9 | 87.3 | 91.6 | 91.1 | 94.6  | 98.0  | 92.9  | 88.6  | 81.7 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 125.5 |
| RAN TIP SPEED 16000 | 87.2 | 78.8 | 73.6 | 78.3 | 83.8 | 85.8 | 88.3  | 88.8  | 88.3  | 83.3  | 75.9 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 119.4 |
| (476 FT/SEC)        | 82.5 | 65.3 | 67.6 | 70.3 | 74.7 | 73.9 | 82.2  | 84.7  | 85.9  | 81.9  | 73.1 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 115.6 |
| 25000               | 89.4 | 61.6 | 63.5 | 67.0 | 71.4 | 70.3 | 78.2  | 81.1  | 82.3  | 79.3  | 70.3 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 120.7 |
| 31500               | 87.6 | 59.6 | 60.8 | 65.5 | 68.9 | 67.7 | 76.1  | 78.1  | 79.8  | 76.4  | 67.5 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 111.3 |
| 40000               | 86.8 | 57.9 | 57.8 | 62.9 | 65.7 | 66.6 | 73.7  | 75.4  | 76.6  | 73.8  | 62.2 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 108.5 |
| 50000               | 82.8 | 54.1 | 53.7 | 54.7 | 58.1 | 57.6 | 64.3  | 67.4  | 68.6  | 66.9  | 55.5 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 103.7 |
| 63000               | 87.8 | 49.2 | 47.4 | 47.2 | 49.3 | 49.2 | 56.7  | 57.7  | 58.3  | 54.0  | 38.0 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 81.6  |
| 80000               | 83.1 | 53.5 | 51.4 | 50.5 | 50.2 | 52.4 | 51.3  | 50.9  | 55.2  | 50.4  | 36.4 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 76.4  |
| OVERALL MEASUREMENT | 81.4 | 63.7 | 66.9 | 69.7 | 69.8 | 69.2 | 96.7  | 97.4  | 96.4  | 93.5  | 80.2 |     |     |     |     |     |     |     |     |     |     |     |     |     |       | 128.3 |
| OVERALL CALCULATED  | 88.9 | 78.5 | 73.2 | 94.8 | 94.5 | 98.2 | 108.5 | 101.4 | 103.1 | 102.2 | 74.9 |     |     |     |     |     |     |     |     |     |     |     |     |     |       |       |

ORIGINAL PLACED IN  
OF ROOM QUARTER

U.S. AIR FORCE





MODEL SOUND PRESSURE LEVELS 150. PRCC, DATE - MONTH 4 DAY 9 HR. 14.6  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | FREQ. | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0. | 0. | 0. | 0. | 0. | 0. |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----|----|----|----|----|
|                    |       | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0. | 0. | 0. | 0. | 0. | 0. |
| SIDELINE 200. FT.  | 50    |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
| (60.96 M)          | 63    |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
| VEHICLE R-55       | 100   | 32.3   | 35.4   | 38.9   | 36.2   | 37.6   | 39.0   | 34.3   | 35.9   | 33.8   | 30.2   | 28.5   |    |    |    |    |    |    |
| CCNFIC 75-69       | 125   | 39.3   | 41.0   | 47.9   | 41.1   | 50.3   | 42.5   | 36.5   | 44.8   | 43.4   | 33.1   | 32.1   |    |    |    |    |    |    |
| LCC SCHEMECTARY    | 180   | 33.1   | 34.7   | 36.5   | 36.8   | 36.7   | 35.4   | 34.9   | 35.2   | 34.8   | 32.7   | 29.1   |    |    |    |    |    |    |
| DATE 2/3/75        | 200   | 32.5   | 34.4   | 36.0   | 35.7   | 35.1   | 38.0   | 35.8   | 36.6   | 36.2   | 35.3   | 32.4   |    |    |    |    |    |    |
| RM: 74/2           | 250   | 31.9   | 33.8   | 35.6   | 36.1   | 36.3   | 39.0   | 37.5   | 37.5   | 36.3   | 34.4   | 31.2   |    |    |    |    |    |    |
| TAPE               | 315   | 35.3   | 38.4   | 39.0   | 39.5   | 39.0   | 41.9   | 39.6   | 38.6   | 38.6   | 36.2   | 32.0   |    |    |    |    |    |    |
| BAR 30-1 HG        | 400   | 33.7   | 36.6   | 37.2   | 39.7   | 39.7   | 41.0   | 39.8   | 36.5   | 38.8   | 36.8   | 32.5   |    |    |    |    |    |    |
| (01717. N/M2)      | 500   | 33.4   | 35.5   | 37.4   | 38.9   | 39.3   | 43.3   | 42.5   | 42.0   | 41.8   | 39.4   | 34.3   |    |    |    |    |    |    |
| TAPB 36. DEG F     | 630   | 38.3   | 39.7   | 42.3   | 44.3   | 45.0   | 48.4   | 47.4   | 46.3   | 45.9   | 43.8   | 37.8   |    |    |    |    |    |    |
| (1275. DEG K)      | 800   | 42.4   | 45.5   | 46.2   | 48.5   | 49.4   | 52.8   | 51.7   | 52.2   | 52.9   | 51.1   | 45.2   |    |    |    |    |    |    |
| TACT 26. DEG F     | 1000  | 37.1   | 39.9   | 42.0   | 43.9   | 45.1   | 49.2   | 48.1   | 48.3   | 47.5   | 45.6   | 38.4   |    |    |    |    |    |    |
| (1270. DEG K)      | 1250  | 35.2   | 37.3   | 40.4   | 43.5   | 44.7   | 48.6   | 48.5   | 48.7   | 47.1   | 44.7   | 37.8   |    |    |    |    |    |    |
| (1270. DEG K)      | 1600  | 39.3   | 41.1   | 43.5   | 46.2   | 47.9   | 52.0   | 52.5   | 53.7   | 52.9   | 49.4   | 39.6   |    |    |    |    |    |    |
| HACT 0.43 G/M3     | 2000  | 35.0   | 37.5   | 39.6   | 42.8   | 43.7   | 48.1   | 47.6   | 47.5   | 46.4   | 45.3   | 36.9   |    |    |    |    |    |    |
| (-00043 KG/M3)     | 2500  | 34.3   | 37.5   | 39.6   | 42.9   | 44.3   | 49.1   | 49.4   | 49.8   | 48.4   | 46.3   | 37.4   |    |    |    |    |    |    |
| MFA 3108. RPM      | 3150  | 31.9   | 34.7   | 36.8   | 39.6   | 41.5   | 46.0   | 45.5   | 46.1   | 46.0   | 45.5   | 35.4   |    |    |    |    |    |    |
| ( 325. RAD/SEC)    | 4000  | 28.5   | 32.6   | 34.2   | 37.6   | 39.8   | 44.6   | 43.2   | 44.0   | 44.8   | 43.2   | 31.3   |    |    |    |    |    |    |
| MFK 3179. RPM      | 5000  | 27.6   | 30.3   | 32.9   | 35.3   | 38.2   | 42.5   | 42.2   | 41.9   | 43.2   | 40.9   | 29.0   |    |    |    |    |    |    |
| ( 333. RAD/SEC)    | 6300  | 26.0   | 28.5   | 30.3   | 32.9   | 34.8   | 40.0   | 39.8   | 40.8   | 39.9   | 38.1   | 26.7   |    |    |    |    |    |    |
| MFB 8823. RPM      | 8000  | 23.6   | 26.8   | 27.8   | 30.9   | 32.8   | 38.2   | 37.1   | 37.7   | 37.6   | 34.9   | 22.4   |    |    |    |    |    |    |
| ( 924. RAD/SEC)    | 10000 | 22.3   | 25.5   | 26.4   | 29.1   | 31.0   | 36.9   | 35.4   | 36.0   | 35.0   | 32.4   | 19.3   |    |    |    |    |    |    |
| NG. OF BLADES 15   | 12500 | 20.3   | 23.2   | 24.7   | 26.7   | 29.3   | 33.1   | 33.4   | 33.8   | 31.9   | 28.5   | 12.3   |    |    |    |    |    |    |
| FAN TIP SPEED      | 16000 | 15.8   | 19.0   | 20.4   | 22.2   | 22.8   | 27.5   | 26.3   | 26.4   | 24.1   | 19.8   | 8.6    |    |    |    |    |    |    |
| 271. FT/SEC        | 20000 | 9.3    | 13.7   | 15.7   | 17.4   | 17.8   | 21.0   | 19.8   | 18.5   | 15.5   | 8.2    |        |    |    |    |    |    |    |
|                    | 25000 | 1.1    | 6.5    | 8.4    | 10.5   | 9.8    | 12.4   | 11.4   | 9.3    | 4.8    |        |        |    |    |    |    |    |    |
|                    | 31500 |        |        |        |        |        | 2.2    |        |        |        |        |        |    |    |    |    |    |    |
|                    | 40000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |    |
| OVERALL CALCULATED |       | 48.6   | 51.2   | 53.8   | 54.8   | 56.8   | 59.7   | 59.1   | 59.7   | 58.2   | 56.8   | 49.8   |    |    |    |    |    |    |
| PNEO               |       | 57.6   | 60.5   | 62.7   | 65.2   | 66.8   | 71.1   | 70.6   | 71.1   | 70.4   | 68.2   | 59.2   |    |    |    |    |    |    |



|                    | 53.   | 62.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0.   | 0.   | 0.   | 0.   | 0.   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| FREQ.              | 10.92 | 11.38 | 11.24 | 11.41 | 11.58 | 11.76 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 10.  | 110. | 110. | 110. | 110. |
| SIDELINE 200. FT.  | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50   | 50   | 50   | 50   | 50   |
| ( 60.96 F)         | 60    | 60    | 60    | 60    | 60    | 60    | 60    | 60    | 60    | 60    | 60    | 60   | 60   | 60   | 60   | 60   |
| VEHICLE 8-55       | 100   | 32.8  | 35.7  | 39.3  | 37.5  | 42.2  | 39.4  | 39.8  | 36.7  | 36.5  | 34.5  | 34.6 |      |      |      |      |
| CONFIG 75-68       | 125   | 39.2  | 42.9  | 44.5  | 43.7  | 49.9  | 44.6  | 39.5  | 45.4  | 44.7  | 36.6  | 35.2 |      |      |      |      |
| LCC SCHWINGTACT    | 150   | 35.9  | 37.3  | 34.2  | 34.9  | 39.5  | 40.8  | 38.9  | 38.8  | 36.8  | 36.7  | 34.2 |      |      |      |      |
| DATE 2/3/73        | 200   | 34.8  | 36.7  | 37.3  | 39.3  | 37.7  | 41.4  | 39.3  | 39.9  | 36.7  | 36.6  | 35.7 |      |      |      |      |
| RUN 74/3           | 250   | 35.2  | 36.6  | 38.3  | 39.5  | 29.7  | 42.3  | 40.7  | 40.8  | 39.8  | 36.2  | 34.8 |      |      |      |      |
| TAPE               | 315   | 34.4  | 41.3  | 42.2  | 42.4  | 42.3  | 45.0  | 43.9  | 42.0  | 41.2  | 39.5  | 35.1 |      |      |      |      |
| BAR 30.1 HG        | 400   | 37.2  | 40.2  | 40.8  | 42.6  | 43.3  | 45.5  | 43.8  | 43.4  | 41.6  | 39.4  | 35.3 |      |      |      |      |
| (01717. N/M2)      | 500   | 35.7  | 37.8  | 39.2  | 41.8  | 42.2  | 45.1  | 44.2  | 44.3  | 43.7  | 41.0  | 39.1 |      |      |      |      |
| TAMP 36. DEG F     | 600   | 40.1  | 41.2  | 43.7  | 45.4  | 47.1  | 49.8  | 49.6  | 48.7  | 46.1  | 45.1  | 39.6 |      |      |      |      |
| (275. DEG F)       | 800   | 41.7  | 44.4  | 45.5  | 48.3  | 50.5  | 53.5  | 52.8  | 51.5  | 51.2  | 48.8  | 41.8 |      |      |      |      |
| THET 26. DEG F     | 1000  | 49.3  | 54.7  | 54.7  | 59.0  | 61.7  | 64.4  | 62.9  | 61.4  | 61.3  | 58.4  | 50.0 |      |      |      |      |
| (270. DEG K)       | 1250  | 48.4  | 42.4  | 45.8  | 48.2  | 52.8  | 54.3  | 53.7  | 53.0  | 52.1  | 48.9  | 40.4 |      |      |      |      |
| MACT 0.61 G/M3     | 1500  | 41.2  | 43.7  | 46.1  | 44.5  | 51.0  | 54.1  | 53.4  | 53.3  | 51.7  | 47.9  | 38.5 |      |      |      |      |
| (-00003 K2/M3)     | 2000  | 43.3  | 45.3  | 47.7  | 50.9  | 52.0  | 56.2  | 54.4  | 54.8  | 50.2  | 52.3  | 43.2 |      |      |      |      |
| NFA 3070. RPM      | 2500  | 39.8  | 41.3  | 44.2  | 47.5  | 49.4  | 54.0  | 53.2  | 52.3  | 51.7  | 49.3  | 38.3 |      |      |      |      |
| ( 406. RAD/SEC)    | 3150  | 37.6  | 40.8  | 43.4  | 46.2  | 48.6  | 53.5  | 52.3  | 51.7  | 52.8  | 52.0  | 40.8 |      |      |      |      |
| NPK 3967. RPM      | 4000  | 35.8  | 37.7  | 40.1  | 43.7  | 46.9  | 56.5  | 56.3  | 51.1  | 51.1  | 47.7  | 36.6 |      |      |      |      |
| ( 415. RAD/SEC)    | 5000  | 32.9  | 35.1  | 38.3  | 41.9  | 44.8  | 48.9  | 49.2  | 48.2  | 48.7  | 46.2  | 33.1 |      |      |      |      |
| NPD 6023. RPM      | 6300  | 31.2  | 33.6  | 35.9  | 40.5  | 42.9  | 47.1  | 46.8  | 47.7  | 48.4  | 44.6  | 31.3 |      |      |      |      |
| ( 924. RAD/SEC)    | 8000  | 27.4  | 30.6  | 33.5  | 38.6  | 39.2  | 43.8  | 43.8  | 44.8  | 44.9  | 39.8  | 27.2 |      |      |      |      |
| NO. OF BLADES 19   | 10000 | 25.0  | 28.8  | 31.3  | 34.2  | 38.0  | 42.7  | 41.1  | 42.8  | 42.8  | 37.7  | 23.9 |      |      |      |      |
| FAN TIP SPEED      | 12500 | 23.3  | 25.8  | 28.8  | 32.1  | 36.1  | 40.2  | 39.2  | 40.3  | 38.9  | 33.5  | 18.4 |      |      |      |      |
| 339. FT/SEC        | 16000 | 17.1  | 20.8  | 23.8  | 26.3  | 29.9  | 33.9  | 32.8  | 33.8  | 32.1  | 24.8  | 5.7  |      |      |      |      |
|                    | 20000 | 18.8  | 14.6  | 16.8  | 20.8  | 23.6  | 26.6  | 26.5  | 25.6  | 23.3  | 14.3  |      |      |      |      |      |
|                    | 25000 | 2.2   | 7.1   | 9.8   | 12.8  | 14.9  | 18.9  | 17.4  | 18.8  | 11.4  |       |      |      |      |      |      |
|                    | 31500 |       |       |       | 1.2   | 3.8   | 7.6   | 5.4   | 2.8   |       |       |      |      |      |      |      |
|                    | 40000 |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |
|                    | 50000 |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |
|                    | 63000 |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |
|                    | 80000 |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |
| OVERALL CALCULATED | 53.3  | 57.2  | 58.5  | 61.5  | 63.4  | 66.8  | 68.7  | 64.8  | 64.8  | 61.9  | 53.3  |      |      |      |      |      |
| PRDG               | 62.1  | 68.3  | 68.8  | 71.8  | 73.8  | 76.7  | 78.6  | 78.4  | 78.8  | 73.8  | 62.3  |      |      |      |      |      |





ANGLES FROM INLET IN DEGREES (LONG CABLES)

PREC. 10.02, 11.03, 11.24, 11.41, 11.58, 11.76, 11.94, 12.13, 12.32, 12.52, 12.73, 13.0, 13.2, 13.4, 13.6, 13.8, 14.0

|                     | 53    | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 143  | 153  | 163  | 173 | 183 | 193 |
|---------------------|-------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| SIDELINE 200. FT    | 100   | 34.1 | 34.3 | 48.3 | 34.3 | 48.7 | 49.9 | 37.4 | 37.6 | 36.6 | 34.0 | 37.1 |     |     |     |
| VEHICLE 1-95        | 125   | 41.0 | 49.1 | 40.3 | 43.7 | 38.1 | 44.3 | 41.0 | 49.4 | 44.7 | 38.0 | 37.4 |     |     |     |
| CONFIG 75-8R        | 160   | 37.1 | 39.6 | 39.9 | 44.9 | 41.3 | 42.3 | 41.2 | 41.5 | 41.3 | 39.9 | 37.4 |     |     |     |
| LCC SCHEMATIC       | 230   | 34.0 | 38.4 | 39.1 | 39.8 | 49.2 | 43.4 | 41.3 | 41.7 | 42.0 | 40.8 | 38.5 |     |     |     |
| DATE 2/3/75         | 230   | 37.4 | 39.9 | 40.5 | 41.9 | 41.9 | 43.8 | 42.7 | 42.3 | 41.3 | 38.9 | 37.6 |     |     |     |
| REV. 74/4           | 314   | 41.6 | 43.8 | 43.4 | 43.9 | 44.3 | 47.0 | 44.0 | 44.0 | 43.5 | 41.9 | 37.6 |     |     |     |
| TYPE                | 420   | 38.2 | 41.7 | 42.6 | 44.3 | 44.5 | 47.5 | 45.4 | 45.1 | 43.9 | 42.4 | 37.6 |     |     |     |
| BAR 30.1 MC         | 500   | 37.2 | 38.3 | 48.2 | 42.7 | 43.7 | 47.1 | 46.5 | 46.3 | 46.8 | 43.8 | 37.9 |     |     |     |
| (01717. H/P2)       | 630   | 41.6 | 42.2 | 44.7 | 47.9 | 48.1 | 51.1 | 50.1 | 49.7 | 48.9 | 48.8 | 49.1 |     |     |     |
| TYPE 30. SEC F      | 800   | 41.9 | 43.4 | 44.3 | 47.1 | 48.8 | 52.2 | 51.3 | 51.3 | 50.7 | 48.3 | 41.3 |     |     |     |
| 1275. SEC R         | 1030  | 46.3 | 48.2 | 52.7 | 52.2 | 50.2 | 61.4 | 60.6 | 61.4 | 60.8 | 58.1 | 49.8 |     |     |     |
| TYPE 26. SEC F      | 1230  | 43.2 | 45.1 | 49.1 | 52.6 | 53.8 | 57.5 | 57.8 | 56.8 | 59.9 | 57.7 | 43.2 |     |     |     |
| 1276. SEC R         | 1400  | 43.5 | 45.5 | 47.8 | 50.8 | 52.7 | 56.4 | 56.1 | 56.1 | 53.8 | 50.9 | 48.8 |     |     |     |
| MACT 0.03 CM/MS     | 2000  | 37.8 | 40.0 | 49.9 | 53.9 | 55.5 | 59.7 | 57.4 | 57.8 | 59.7 | 56.8 | 43.5 |     |     |     |
| (-00003 MS/MS)      | 2520  | 42.3 | 44.6 | 46.2 | 50.7 | 52.4 | 56.5 | 56.9 | 56.1 | 59.4 | 52.3 | 41.5 |     |     |     |
| MFA 230. RPM        | 3150  | 41.9 | 44.5 | 46.2 | 50.2 | 52.6 | 57.0 | 56.1 | 55.2 | 58.4 | 51.8 | 43.8 |     |     |     |
| (-444. 00/SEC)      | 4000  | 37.3 | 41.8 | 42.8 | 48.5 | 49.1 | 53.5 | 53.3 | 53.4 | 53.3 | 50.5 | 37.1 |     |     |     |
| RPM 4307. RPM       | 5000  | 35.4 | 38.4 | 41.8 | 45.4 | 47.8 | 51.9 | 51.4 | 51.2 | 51.7 | 49.8 | 34.9 |     |     |     |
| (-450. 00/SEC)      | 6330  | 33.2 | 38.3 | 38.2 | 48.3 | 48.2 | 48.9 | 49.4 | 50.7 | 50.1 | 47.4 | 32.8 |     |     |     |
| MFB 8023. RPM       | 8000  | 29.9 | 32.9 | 32.2 | 38.8 | 42.2 | 47.3 | 46.8 | 47.8 | 46.4 | 43.8 | 30.2 |     |     |     |
| (-804. 00/SEC)      | 10000 | 27.3 | 31.3 | 33.5 | 37.7 | 40.8 | 45.8 | 44.4 | 46.1 | 45.3 | 40.7 | 24.8 |     |     |     |
| NO. OF BLADES 19    | 12000 | 24.8 | 27.8 | 30.8 | 35.3 | 38.9 | 42.7 | 42.4 | 42.3 | 41.2 | 38.9 | 19.2 |     |     |     |
| FAN TIP SPEED 10000 | 16000 | 14.6 | 22.3 | 24.5 | 26.5 | 32.2 | 37.1 | 38.1 | 38.8 | 38.4 | 27.8 | 7.4  |     |     |     |
| 372. FT/SEC         | 20000 | 11.6 | 19.3 | 19.1 | 22.2 | 23.8 | 28.3 | 29.3 | 29.1 | 28.5 | 17.8 |      |     |     |     |
|                     | 25000 | 8.4  | 7.8  | 10.5 | 13.9 | 17.2 | 21.8 | 22.4 | 18.4 | 14.2 | 8.8  |      |     |     |     |
|                     | 31500 |      |      |      | 2.9  | 3.8  | 10.8 | 8.2  | 8.8  |      |      |      |     |     |     |
|                     | 40000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |
|                     | 50000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |
|                     | 63000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |
|                     | 80000 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |
| OVERALL AVERAGE     | 4100  | 54.2 | 56.1 | 58.9 | 62.5 | 63.8 | 67.3 | 66.2 | 66.8 | 66.3 | 63.8 | 55.9 |     |     |     |
|                     | 7400  | 65.9 | 68.3 | 69.9 | 73.5 | 75.3 | 79.3 | 77.9 | 78.1 | 78.3 | 78.1 | 69.1 |     |     |     |

| FREQ.              | PHCC. DATE - MONTH 4 DAY 9 HR. 14.7 |        |        |        |        |        |        |        |        |        |        |        |        |        | PWL |       |
|--------------------|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-------|
|                    | (0.92)                              | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.95) | (3.18) | (3.42) |     |       |
| 50                 |                                     |        |        |        |        |        |        |        |        |        |        |        |        |        |     |       |
| 63                 |                                     |        |        |        |        |        |        |        |        |        |        |        |        |        |     |       |
| 80                 |                                     |        |        |        |        |        |        |        |        |        |        |        |        |        |     |       |
| RADIAL 17. FT.     | 100                                 | 72.0   | 75.2   | 77.7   | 79.2   | 79.4   | 79.4   | 74.0   | 68.5   | 71.7   | 74.5   | 76.2   |        |        |     | 110.6 |
| VEHICLE (5. N)     | 125                                 | 65.5   | 67.2   | 70.9   | 68.0   | 71.3   | 70.1   | 67.8   | 71.0   | 72.0   | 71.5   | 74.7   |        |        |     | 104.5 |
| CONFIG 75-6R       | 160                                 | 64.5   | 65.2   | 65.7   | 64.0   | 66.1   | 67.9   | 68.0   | 69.5   | 71.7   | 72.8   | 74.9   |        |        |     | 104.2 |
| LCC SCHENECTADY    | 200                                 | 63.0   | 63.9   | 64.9   | 65.7   | 66.5   | 70.9   | 69.5   | 71.0   | 71.9   | 74.0   | 75.9   |        |        |     | 104.2 |
| DATE 2/3/75        | 250                                 | 66.5   | 67.4   | 68.6   | 68.7   | 69.3   | 71.9   | 71.5   | 72.2   | 73.4   | 73.5   | 74.9   |        |        |     | 109.3 |
| RUN 74/5           | 315                                 | 69.0   | 70.2   | 70.9   | 70.7   | 70.3   | 73.4   | 72.0   | 72.3   | 73.7   | 74.0   | 74.7   |        |        |     | 106.2 |
| TAPE               | 430                                 | 67.8   | 69.4   | 69.7   | 70.5   | 70.8   | 74.2   | 73.0   | 73.3   | 73.7   | 74.0   | 74.2   |        |        |     | 106.4 |
| BAR 30-1 HC        | 500                                 | 65.8   | 67.7   | 67.9   | 69.8   | 69.8   | 74.0   | 73.5   | 74.5   | 75.2   | 74.6   | 74.2   |        |        |     | 106.6 |
| (01717. N/M2)      | 630                                 | 69.4   | 70.0   | 71.4   | 73.3   | 74.4   | 77.5   | 77.6   | 77.8   | 78.2   | 77.1   | 78.2   |        |        |     | 109.8 |
| TAMB 38. DEG F     | 800                                 | 69.6   | 70.7   | 71.5   | 72.8   | 74.1   | 78.0   | 77.8   | 78.3   | 79.5   | 78.6   | 74.7   |        |        |     | 110.4 |
| (276. DEG K)       | 1000                                | 69.9   | 72.0   | 73.0   | 75.1   | 76.6   | 81.3   | 80.8   | 81.5   | 82.5   | 81.6   | 76.2   |        |        |     | 113.2 |
| T-ET 27. DEG F     | 1250                                | 82.9   | 83.3   | 86.7   | 89.6   | 91.7   | 93.8   | 92.1   | 91.0   | 91.5   | 89.1   | 85.2   |        |        |     | 124.5 |
| (270. DEG K)       | 1500                                | 77.4   | 78.3   | 80.2   | 83.2   | 85.0   | 88.1   | 87.1   | 86.8   | 87.3   | 85.0   | 80.0   |        |        |     | 119.2 |
| HACT 0.69 GM/M3    | 2000                                | 72.9   | 74.6   | 76.0   | 78.2   | 80.5   | 85.1   | 84.3   | 84.0   | 84.8   | 83.6   | 78.2   |        |        |     | 116.2 |
| (-00069 KG/M3)     | 2500                                | 75.7   | 77.1   | 78.2   | 81.2   | 83.0   | 89.3   | 90.0   | 91.0   | 90.5   | 87.9   | 82.4   |        |        |     | 121.4 |
| NFA 5422. RPM      | 3150                                | 71.9   | 74.1   | 76.1   | 78.5   | 82.0   | 86.3   | 85.7   | 86.7   | 87.7   | 86.4   | 79.6   |        |        |     | 118.2 |
| (568. RAD/SEC)     | 4000                                | 71.0   | 74.2   | 75.8   | 78.7   | 80.9   | 85.2   | 84.6   | 87.6   | 89.4   | 85.8   | 78.5   |        |        |     | 118.3 |
| NFK 5535. RPM      | 5000                                | 69.0   | 70.9   | 72.7   | 75.9   | 78.9   | 83.6   | 83.3   | 84.7   | 86.6   | 83.0   | 76.0   |        |        |     | 116.0 |
| (585. RAD/SEC)     | 6300                                | 67.2   | 69.4   | 71.1   | 74.9   | 77.4   | 82.0   | 82.2   | 84.0   | 86.5   | 82.6   | 76.2   |        |        |     | 115.3 |
| NFD 6823. RPM      | 8000                                | 64.2   | 67.5   | 68.8   | 72.8   | 75.7   | 80.1   | 79.9   | 82.6   | 83.5   | 81.4   | 75.0   |        |        |     | 113.3 |
| (924. PAR/SEC)     | 10000                               | 64.4   | 67.1   | 69.1   | 72.7   | 76.1   | 80.8   | 80.8   | 83.2   | 85.0   | 81.6   | 74.5   |        |        |     | 114.3 |
| NO. OF BLADES 15   | 12500                               | 64.1   | 66.1   | 67.8   | 71.8   | 75.9   | 80.0   | 80.4   | 82.4   | 83.8   | 80.3   | 73.6   |        |        |     | 113.6 |
| FAR TIP SPEED      | 16000                               | 41.6   | 63.5   | 65.3   | 69.4   | 72.7   | 77.6   | 78.5   | 81.4   | 82.8   | 78.8   | 72.5   |        |        |     | 112.4 |
| 473. FT/SEC        | 20000                               | 60.4   | 62.4   | 64.1   | 68.4   | 71.7   | 76.4   | 78.0   | 80.6   | 82.8   | 78.7   | 71.6   |        |        |     | 112.4 |
|                    | 25000                               | 58.7   | 60.0   | 62.3   | 66.7   | 69.5   | 74.7   | 76.4   | 77.9   | 79.2   | 75.3   | 68.2   |        |        |     | 110.1 |
|                    | 31500                               | 57.2   | 58.6   | 60.5   | 65.8   | 68.6   | 73.9   | 74.5   | 76.5   | 78.1   | 74.0   | 65.9   |        |        |     | 109.9 |
|                    | 40000                               | 55.8   | 55.6   | 58.1   | 62.0   | 64.4   | 70.2   | 71.6   | 72.7   | 74.6   | 70.8   | 60.2   |        |        |     | 107.7 |
|                    | 50000                               | 55.8   | 54.6   | 56.0   | 58.1   | 60.6   | 65.9   | 67.1   | 67.0   | 69.1   | 66.5   | 56.0   |        |        |     | 104.8 |
|                    | 63000                               | 55.5   | 53.8   | 56.0   | 54.5   | 55.5   | 59.6   | 60.4   | 60.1   | 61.6   | 59.6   | 52.6   |        |        |     | 101.2 |
|                    | 80000                               | 57.6   | 60.4   | 55.8   | 54.4   | 54.4   | 56.4   | 55.5   | 54.9   | 56.1   | 54.1   | 52.1   |        |        |     | 103.0 |
| OVERALL MEASURED   |                                     | 86.4   | 87.5   | 89.9   | 92.6   | 94.8   | 98.0   | 97.3   | 97.9   | 98.8   | 96.3   | 91.8   |        |        |     | 129.9 |
| OVERALL CALCULATED |                                     | 97.4   | 99.1   | 100.8  | 103.4  | 106.0  | 116.0  | 116.0  | 111.0  | 111.4  | 109.1  | 104.2  |        |        |     |       |

|                    | FREQ. | 50     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---|---|---|---|---|
|                    |       | (0.92) | (1.06) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0 | 0 | 0 | 0 | 0 | 0 |
| SIDELINE 200. FT.  | 50    |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
| ( 60.96 M)         | 63    |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
| VEHICLE R-55       | 80    |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
| CONFIG 75-88       | 100   | 44.3   | 52.5   | 55.6   | 57.5   | 57.2   | 57.7   | 51.8   | 45.4   | 47.3   | 48.0   | 46.1   |   |   |   |   |   |   |
| LCC SCHENECTADY    | 125   | 41.7   | 44.4   | 44.8   | 46.2   | 49.7   | 48.3   | 45.5   | 47.9   | 47.4   | 44.8   | 44.4   |   |   |   |   |   |   |
| DATE 2/3/73        | 166   | 40.6   | 47.3   | 43.4   | 44.1   | 44.3   | 46.0   | 45.7   | 46.3   | 47.1   | 45.9   | 44.4   |   |   |   |   |   |   |
| RUN 74/5           | 200   | 37.3   | 40.9   | 42.6   | 43.8   | 44.7   | 48.9   | 47.1   | 47.7   | 47.2   | 47.1   | 45.2   |   |   |   |   |   |   |
| TAPE               | 250   | 42.4   | 44.4   | 46.3   | 46.7   | 47.4   | 49.8   | 49.0   | 48.8   | 48.6   | 46.4   | 44.0   |   |   |   |   |   |   |
| BAR 37.1 MC        | 315   | 44.8   | 47.0   | 48.4   | 48.6   | 48.3   | 51.3   | 49.4   | 48.7   | 48.7   | 46.8   | 43.6   |   |   |   |   |   |   |
| (101717. N/M2)     | 400   | 43.5   | 46.2   | 47.1   | 44.3   | 48.8   | 52.0   | 50.3   | 49.6   | 48.6   | 46.6   | 42.6   |   |   |   |   |   |   |
| TANG 38. DEG F     | 500   | 41.4   | 44.3   | 45.3   | 47.5   | 47.7   | 51.6   | 50.7   | 50.8   | 50.0   | 47.0   | 42.6   |   |   |   |   |   |   |
| ( 276. DEG K)      | 630   | 44.8   | 46.5   | 46.7   | 50.9   | 52.1   | 55.1   | 54.6   | 53.9   | 52.9   | 49.3   | 43.4   |   |   |   |   |   |   |
| I-ET 27. DEG F     | 800   | 44.9   | 47.1   | 48.5   | 50.3   | 51.8   | 55.5   | 54.8   | 54.3   | 54.0   | 50.6   | 42.6   |   |   |   |   |   |   |
| ( 270. DEG K)      | 1000  | 45.1   | 48.2   | 49.9   | 52.5   | 54.2   | 58.6   | 57.6   | 57.4   | 56.8   | 53.4   | 43.7   |   |   |   |   |   |   |
| MACT 6.69 GM/M3    | 1250  | 57.9   | 59.4   | 63.6   | 66.9   | 67.1   | 71.0   | 68.7   | 66.7   | 65.6   | 60.7   | 52.4   |   |   |   |   |   |   |
| ( 60009 KG/M3)     | 1600  | 52.2   | 54.2   | 56.9   | 60.3   | 62.2   | 65.1   | 63.6   | 62.3   | 61.2   | 56.9   | 46.7   |   |   |   |   |   |   |
| NFA 5422. RPM      | 2000  | 47.5   | 50.3   | 52.4   | 55.1   | 57.5   | 61.9   | 60.6   | 59.3   | 58.4   | 54.6   | 44.5   |   |   |   |   |   |   |
| ( 5535. RPM)       | 2500  | 50.0   | 52.6   | 54.5   | 58.0   | 61.7   | 66.0   | 66.1   | 66.1   | 63.9   | 58.5   | 46.2   |   |   |   |   |   |   |
| NFK 5535. RPM      | 3150  | 45.9   | 49.2   | 51.1   | 54.9   | 59.5   | 62.7   | 61.5   | 61.4   | 60.7   | 56.5   | 44.7   |   |   |   |   |   |   |
| ( 580. RAD/SEC)    | 4000  | 44.5   | 48.9   | 51.3   | 54.7   | 57.1   | 61.2   | 60.0   | 61.0   | 61.8   | 55.2   | 42.6   |   |   |   |   |   |   |
| NFD 6823. RPM      | 5000  | 42.1   | 45.3   | 48.0   | 51.7   | 54.8   | 59.4   | 58.4   | 58.7   | 58.6   | 51.9   | 39.3   |   |   |   |   |   |   |
| ( 924. RAD/SEC)    | 6300  | 39.4   | 43.0   | 45.8   | 50.0   | 52.6   | 57.1   | 56.6   | 57.1   | 57.6   | 50.3   | 37.8   |   |   |   |   |   |   |
| NO. OF BLADES 15   | 8000  | 35.1   | 39.8   | 42.2   | 46.8   | 49.9   | 54.0   | 53.1   | 54.4   | 53.1   | 47.2   | 33.7   |   |   |   |   |   |   |
| FAN TIP SPEED      | 10000 | 33.3   | 37.8   | 41.0   | 45.2   | 48.8   | 53.2   | 52.3   | 53.3   | 52.5   | 44.7   | 29.3   |   |   |   |   |   |   |
| 473. FT/SEC        | 12500 | 30.2   | 34.3   | 37.3   | 42.0   | 46.3   | 50.1   | 49.6   | 49.8   | 48.1   | 39.5   | 22.6   |   |   |   |   |   |   |
| OVERALL CALCULATED | 16000 | 27.0   | 27.5   | 31.0   | 36.0   | 39.6   | 44.1   | 43.8   | 44.5   | 42.1   | 31.5   | 12.1   |   |   |   |   |   |   |
| PNSD               | 20000 | 15.6   | 21.8   | 24.8   | 30.2   | 33.8   | 38.0   | 38.2   | 38.0   | 39.5   | 23.0   |        |   |   |   |   |   |   |
|                    | 25000 | 5.3    | 10.8   | 15.7   | 21.6   | 24.9   | 29.8   | 28.3   | 27.3   | 22.4   | 7.8    |        |   |   |   |   |   |   |
|                    | 31500 |        |        | 3.4    | 10.6   | 14.0   | 18.6   | 16.6   | 16.0   | 7.3    |        |        |   |   |   |   |   |   |
|                    | 40000 |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
|                    | 50000 |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
|                    | 63000 |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
|                    | 80000 |        |        |        |        |        |        |        |        |        |        |        |   |   |   |   |   |   |
|                    |       | 61.2   | 63.4   | 68.6   | 69.6   | 71.8   | 74.8   | 73.2   | 72.5   | 71.5   | 66.6   | 58.2   |   |   |   |   |   |   |
|                    |       | 71.5   | 74.3   | 77.8   | 80.1   | 82.7   | 86.5   | 85.9   | 85.8   | 84.5   | 79.4   | 69.6   |   |   |   |   |   |   |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MOTEL SOUND PRESSURE LEVELS (59. DEG. F., 70 PERCENT REL. HUM., DAY)  
 PROC. DATE = MONTH 4 DAY 9 HR. 14.7  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    |                | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.    | 0.   | 0.   | 0.   | 0.   | 0.   | PWL  |      |      |      |      |      |      |  |       |  |
|--------------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|------|------|------|------|------|------|------|------|------|------|--|-------|--|
|                    |                | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.)  | (0.) | (0.) | (0.) | (0.) | (0.) |      |      |      |      |      |      |      |  |       |  |
|                    |                | FREQ.  | 50     | 63     | 80     | 100    | 125    | 160    | 200    | 250    | 315    | 400    | 500   | 630  | 800  | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 | 6300 | 8000 |  |       |  |
| RADIAL             | 17. FT.        |        |        |        |        |        |        |        |        |        |        |        |       |      |      |      |      |      |      |      |      |      |      |      |      |  |       |  |
| VEHICLE            | R-55           | 125    | 66.5   | 67.7   | 71.4   | 68.7   | 71.3   | 70.4   | 68.0   | 71.5   | 72.5   | 72.5   | 75.7  |      |      |      |      |      |      |      |      |      |      |      |      |  | 113.4 |  |
| CONFIG             | 75-6R          | 160    | 65.0   | 65.7   | 66.4   | 67.2   | 68.3   | 69.1   | 69.0   | 70.5   | 72.5   | 73.8   | 75.9  |      |      |      |      |      |      |      |      |      |      |      |      |  | 105.0 |  |
| LOC                | SCHENECTADY    | 200    | 65.0   | 64.7   | 66.4   | 67.2   | 68.3   | 71.9   | 71.5   | 72.7   | 73.9   | 75.8   | 77.4  |      |      |      |      |      |      |      |      |      |      |      |      |  | 104.1 |  |
| DATE               | 2/3/75         | 250    | 67.0   | 68.2   | 68.9   | 69.5   | 69.8   | 72.6   | 71.8   | 72.5   | 73.7   | 74.5   | 75.9  |      |      |      |      |      |      |      |      |      |      |      |      |  | 105.0 |  |
| RUN                | 74/6           | 315    | 69.2   | 70.9   | 71.1   | 71.5   | 71.5   | 74.7   | 73.0   | 73.0   | 74.0   | 75.0   | 75.1  |      |      |      |      |      |      |      |      |      |      |      |      |  | 107.0 |  |
| TAPE               |                | 400    | 68.5   | 69.9   | 69.9   | 71.2   | 71.3   | 74.7   | 73.3   | 73.7   | 74.2   | 74.8   | 74.9  |      |      |      |      |      |      |      |      |      |      |      |      |  | 106.9 |  |
| BAR                | 30-1 HG        | 500    | 66.8   | 68.2   | 68.9   | 70.0   | 71.1   | 74.9   | 74.5   | 75.0   | 75.7   | 75.5   | 75.2  |      |      |      |      |      |      |      |      |      |      |      |      |  | 107.4 |  |
|                    | (101717. h/m2) | 630    | 70.1   | 70.2   | 72.2   | 73.8   | 75.1   | 76.5   | 78.3   | 78.8   | 78.7   | 77.8   | 76.2  |      |      |      |      |      |      |      |      |      |      |      |      |  | 110.6 |  |
| TAMB               | 37. DEG F      | 800    | 70.1   | 71.2   | 71.9   | 72.3   | 74.9   | 78.5   | 78.1   | 79.0   | 79.5   | 79.1   | 75.2  |      |      |      |      |      |      |      |      |      |      |      |      |  | 110.6 |  |
|                    | (276. DEG K)   | 1000   | 70.4   | 72.2   | 73.2   | 75.3   | 76.6   | 81.3   | 81.1   | 82.0   | 82.7   | 82.1   | 76.5  |      |      |      |      |      |      |      |      |      |      |      |      |  | 113.5 |  |
| TNET               | 27. DEG F      | 1250   | 80.4   | 82.5   | 84.7   | 86.9   | 87.9   | 88.8   | 88.3   | 88.6   | 89.5   | 88.9   | 81.5  |      |      |      |      |      |      |      |      |      |      |      |      |  | 121.4 |  |
|                    | (270. DEG K)   | 1600   | 81.5   | 83.1   | 84.7   | 87.4   | 88.5   | 89.6   | 89.1   | 89.3   | 89.6   | 88.9   | 81.5  |      |      |      |      |      |      |      |      |      |      |      |      |  | 121.9 |  |
| MACT               | 0.99 GM/M3     | 2000   | 74.0   | 74.9   | 77.0   | 79.2   | 81.5   | 85.8   | 85.1   | 84.8   | 85.1   | 84.2   | 79.3  |      |      |      |      |      |      |      |      |      |      |      |      |  | 116.9 |  |
|                    | (100099 KG/M3) | 2500   | 75.3   | 76.6   | 80.3   | 82.8   | 84.3   | 88.1   | 88.8   | 89.1   | 89.3   | 87.4   | 81.5  |      |      |      |      |      |      |      |      |      |      |      |      |  | 120.4 |  |
| NFA                | 5655. RPM      | 3150   | 75.2   | 76.6   | 80.5   | 83.3   | 84.8   | 88.1   | 89.0   | 89.8   | 89.3   | 88.7   | 82.5  |      |      |      |      |      |      |      |      |      |      |      |      |  | 120.6 |  |
|                    | (592. RAD/SEC) | 4000   | 71.4   | 74.3   | 75.6   | 78.8   | 81.2   | 85.8   | 85.7   | 87.7   | 89.2   | 87.1   | 79.1  |      |      |      |      |      |      |      |      |      |      |      |      |  | 116.7 |  |
| NFK                | 5779. RPM      | 5000   | 69.6   | 71.8   | 73.6   | 77.0   | 80.4   | 84.5   | 84.6   | 86.1   | 86.9   | 84.8   | 76.6  |      |      |      |      |      |      |      |      |      |      |      |      |  | 117.0 |  |
|                    | (665. RAD/SEC) | 6300   | 68.3   | 70.5   | 72.9   | 76.3   | 79.0   | 83.6   | 84.3   | 85.6   | 86.8   | 84.2   | 77.3  |      |      |      |      |      |      |      |      |      |      |      |      |  | 116.6 |  |
| NFD                | 8823. RPM      | 8000   | 65.6   | 68.3   | 71.4   | 74.7   | 76.8   | 82.2   | 81.7   | 84.2   | 85.1   | 83.3   | 76.1  |      |      |      |      |      |      |      |      |      |      |      |      |  | 115.0 |  |
|                    | (924. RAD/SEC) | 10000  | 64.7   | 68.0   | 70.0   | 73.8   | 77.8   | 81.9   | 82.1   | 83.8   | 85.6   | 82.4   | 75.4  |      |      |      |      |      |      |      |      |      |      |      |      |  | 115.1 |  |
| NO. OF BLADES      | 15             | 12500  | 64.5   | 67.0   | 69.2   | 73.4   | 77.5   | 81.6   | 82.0   | 83.5   | 85.1   | 82.1   | 75.4  |      |      |      |      |      |      |      |      |      |      |      |      |  | 115.0 |  |
| FAN TIP SPEED      | 16000          | 20000  | 62.5   | 64.4   | 67.0   | 70.5   | 74.6   | 79.2   | 80.3   | 82.0   | 83.4   | 79.9   | 73.9  |      |      |      |      |      |      |      |      |      |      |      |      |  | 113.4 |  |
|                    | 494. FT/SEC    | 25000  | 61.3   | 63.1   | 65.8   | 69.6   | 73.1   | 78.3   | 79.7   | 81.7   | 83.4   | 80.1   | 73.0  |      |      |      |      |      |      |      |      |      |      |      |      |  | 113.5 |  |
|                    |                | 31500  | 59.3   | 61.4   | 63.4   | 68.1   | 71.2   | 76.6   | 77.3   | 79.6   | 80.3   | 77.0   | 70.1  |      |      |      |      |      |      |      |      |      |      |      |      |  | 111.7 |  |
|                    |                | 40000  | 58.4   | 59.8   | 62.5   | 66.7   | 70.0   | 75.8   | 75.6   | 78.4   | 79.8   | 76.1   | 67.8  |      |      |      |      |      |      |      |      |      |      |      |      |  | 111.6 |  |
|                    |                | 50000  | 55.5   | 56.8   | 59.5   | 63.1   | 66.1   | 71.9   | 72.7   | 74.1   | 76.2   | 72.2   | 61.6  |      |      |      |      |      |      |      |      |      |      |      |      |  | 109.2 |  |
|                    |                | 63000  | 55.5   | 54.6   | 57.9   | 59.3   | 61.8   | 67.8   | 69.1   | 69.0   | 69.6   | 67.6   | 57.2  |      |      |      |      |      |      |      |      |      |      |      |      |  | 106.2 |  |
|                    |                | 80000  | 55.7   | 53.6   | 55.7   | 55.0   | 57.0   | 60.8   | 62.1   | 61.1   | 63.0   | 61.1   | 53.3  |      |      |      |      |      |      |      |      |      |      |      |      |  | 103.4 |  |
|                    |                |        | 57.8   | 60.8   | 58.0   | 54.6   | 54.9   | 56.7   | 56.5   | 55.9   | 56.8   | 55.5   | 52.5  |      |      |      |      |      |      |      |      |      |      |      |      |  | 103.5 |  |
| OVERALL MEASURED   |                |        | 87.2   | 88.8   | 91.0   | 93.3   | 94.7   | 97.4   | 97.4   | 98.2   | 99.0   | 97.5   | 91.7  |      |      |      |      |      |      |      |      |      |      |      |      |  | 120.1 |  |
| OVERALL CALCULATED |                |        | 98.6   | 100.5  | 102.7  | 105.2  | 106.9  | 110.2  | 110.5  | 111.3  | 111.6  | 110.5  | 105.0 |      |      |      |      |      |      |      |      |      |      |      |      |  |       |  |

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SQUARE PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)  
 PRNC. DATE - MONTH & DAY @ MR. 14.7

ANGLES FROM INLET IN DEGREES (ANG RADIANS)

FREQ. 53. 62. 71. 81. 91. 101. 111. 122. 133. 145. 156. 0. 0. 0. 0. 0. 0.  
 (1.02)(1.08)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)0. 100. 110. 120. 130. 140. 150.

| PARAMETER          | 53    | 62   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 156  | 0    | 0 | 0 | 0 | 0 |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|
| SIDELINE 200. FT.  | 50    | 55.1 | 56.7 | 59.6 | 60.8 | 59.5 | 59.4 | 54.1 | 48.4 | 46.5 | 48.0 | 46.8 |   |   |   |   |
| (166.96 M)         | 63    |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
| VEHICLE            | 100   | 42.7 | 44.9 | 49.3 | 46.9 | 49.5 | 49.6 | 45.7 | 48.4 | 47.9 | 45.8 | 45.4 |   |   |   |   |
| CONFIC             | 125   | 41.1 | 42.8 | 44.2 | 44.9 | 45.1 | 47.3 | 46.7 | 47.3 | 47.8 | 46.9 | 45.4 |   |   |   |   |
| LCC SCHEMATIC      | 160   | 41.0 | 41.7 | 44.1 | 45.3 | 46.5 | 49.9 | 49.1 | 49.4 | 49.2 | 48.0 | 46.7 |   |   |   |   |
| DATE 2/3/75        | 200   | 42.9 | 45.1 | 46.5 | 47.5 | 47.7 | 50.6 | 49.2 | 49.1 | 48.4 | 47.4 | 45.0 |   |   |   |   |
| RUN 74/6           | 250   | 45.1 | 47.8 | 48.7 | 49.4 | 49.6 | 52.5 | 50.4 | 49.5 | 49.0 | 47.8 | 44.1 |   |   |   |   |
| TAPE               | 315   | 44.2 | 46.7 | 47.3 | 49.1 | 49.3 | 52.4 | 50.6 | 50.1 | 49.1 | 47.4 | 43.8 |   |   |   |   |
| BAR 30.1 HG        | 400   | 42.4 | 44.8 | 46.2 | 47.7 | 48.9 | 52.6 | 51.7 | 51.3 | 50.5 | 48.0 | 43.6 |   |   |   |   |
| (1017.0 N/M2)      | 500   | 45.6 | 46.7 | 49.4 | 51.4 | 52.9 | 56.1 | 55.4 | 54.9 | 53.4 | 50.1 | 44.4 |   |   |   |   |
| TAMB 37. DEG F     | 600   | 45.4 | 47.6 | 49.0 | 50.8 | 52.5 | 56.0 | 55.0 | 55.0 | 54.0 | 51.1 | 43.1 |   |   |   |   |
| (270. DEG K)       | 1000  | 45.6 | 48.5 | 50.2 | 52.7 | 54.2 | 58.6 | 57.9 | 57.9 | 57.1 | 53.9 | 46.0 |   |   |   |   |
| THEY 27. DEG F     | 1250  | 55.4 | 58.6 | 61.6 | 64.1 | 65.3 | 68.0 | 65.0 | 64.3 | 63.6 | 60.4 | 46.7 |   |   |   |   |
| (270. DEG K)       | 1600  | 56.2 | 59.0 | 61.4 | 64.5 | 65.7 | 68.6 | 65.6 | 64.8 | 63.4 | 60.2 | 48.2 |   |   |   |   |
| NACT 0.99 CM/M3    | 2000  | 48.5 | 50.6 | 53.5 | 54.2 | 58.6 | 62.7 | 61.4 | 60.1 | 58.7 | 55.1 | 45.5 |   |   |   |   |
| (.00099 KG/M3)     | 2500  | 49.3 | 52.1 | 56.5 | 59.5 | 61.2 | 64.8 | 64.9 | 64.1 | 62.7 | 58.1 | 47.3 |   |   |   |   |
| NFA 5655. RPM      | 3150  | 49.2 | 51.8 | 56.5 | 59.7 | 61.4 | 64.5 | 64.9 | 64.5 | 62.3 | 58.8 | 47.5 |   |   |   |   |
| (592. RAD/SEC)     | 4000  | 44.8 | 49.0 | 51.2 | 54.6 | 57.4 | 61.8 | 61.1 | 61.9 | 61.6 | 56.9 | 43.1 |   |   |   |   |
| NFK 5779. RPM      | 5000  | 42.7 | 46.2 | 48.8 | 52.7 | 56.4 | 60.2 | 59.7 | 60.0 | 59.0 | 53.8 | 40.2 |   |   |   |   |
| (605. RAD/SEC)     | 6300  | 40.6 | 44.1 | 47.5 | 51.4 | 54.2 | 58.7 | 58.7 | 58.7 | 57.9 | 51.9 | 38.9 |   |   |   |   |
| NFB 6823. RPM      | 8000  | 36.4 | 40.7 | 44.8 | 48.6 | 51.0 | 56.1 | 54.9 | 56.0 | 54.7 | 49.1 | 34.8 |   |   |   |   |
| (924. RAD/SEC)     | 10000 | 33.7 | 38.7 | 41.8 | 46.3 | 50.4 | 54.3 | 53.7 | 53.0 | 53.1 | 45.5 | 30.2 |   |   |   |   |
| NO. OF BLADES 15   | 12500 | 30.6 | 35.1 | 38.6 | 43.7 | 47.9 | 51.8 | 51.2 | 50.9 | 49.5 | 41.3 | 24.5 |   |   |   |   |
| FAH TIP SPEED      | 16000 | 23.9 | 28.4 | 32.6 | 37.1 | 41.9 | 45.7 | 45.6 | 45.1 | 42.7 | 32.7 | 13.5 |   |   |   |   |
| 494. FT/SEC        | 20000 | 18.7 | 21.6 | 26.4 | 31.6 | 35.2 | 39.9 | 39.9 | 39.2 | 36.1 | 24.4 | 0.2  |   |   |   |   |
|                    | 25000 | 6.0  | 12.2 | 18.9 | 25.0 | 28.5 | 31.4 | 30.2 | 28.9 | 23.5 | 9.1  |      |   |   |   |   |
|                    | 31500 |      |      | 5.3  | 11.5 | 15.4 | 20.5 | 17.8 | 15.9 | 9.0  |      |      |   |   |   |   |
|                    | 40000 |      |      |      |      |      | 1.5  |      |      |      |      |      |   |   |   |   |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |
| OVERALL CALCULATED |       | 62.2 | 64.8 | 67.6 | 70.2 | 71.5 | 73.8 | 73.0 | 72.6 | 71.4 | 67.6 | 58.3 |   |   |   |   |
| PND9               |       | 73.0 | 75.9 | 78.7 | 81.7 | 83.4 | 86.6 | 86.3 | 86.0 | 84.4 | 80.6 | 70.1 |   |   |   |   |

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MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)  
 PRCC. DATE - MONTH & DAY @ HR. 14.0  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                           | FREQ. | 53.     | 62.     | 71.     | 81.     | 91.     | 101.    | 111.    | 122.    | 133.    | 145.    | 156.    | 0°  | 0°   | 0°   | 0°   | 0°   | PWL   |
|---------------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|------|------|------|------|-------|
|                           |       | (10.92) | (11.08) | (11.24) | (11.41) | (11.58) | (11.76) | (11.94) | (12.13) | (12.32) | (12.52) | (12.73) | (0. | 110° | 110° | 110° | 110° | 110°) |
| RADIAL 17. FT.            | 50    |         |         |         |         |         |         |         |         |         |         |         |     |      |      |      |      |       |
|                           | 63    |         |         |         |         |         |         |         |         |         |         |         |     |      |      |      |      |       |
|                           | 80    |         |         |         |         |         |         |         |         |         |         |         |     |      |      |      |      |       |
| VEHICLE (5. M)            | 100   | 74.2    | 73.2    | 74.7    | 77.7    | 76.9    | 74.9    | 70.0    | 68.7    | 71.5    | 74.5    | 77.9    |     |      |      |      |      | 106.6 |
| CCI-FIG R-55              | 175   | 67.0    | 69.2    | 71.4    | 70.4    | 71.9    | 71.7    | 68.8    | 72.5    | 73.2    | 73.9    | 76.2    |     |      |      |      |      | 109.8 |
| LCC SCHENECTADY 75-6R     | 160   | 66.0    | 66.9    | 66.9    | 67.9    | 67.9    | 70.2    | 70.0    | 71.5    | 73.5    | 74.9    | 76.9    |     |      |      |      |      | 109.1 |
| DATE 2/3/75               | 200   | 65.7    | 66.2    | 67.4    | 68.7    | 69.7    | 73.9    | 72.3    | 74.5    | 75.7    | 77.3    | 79.1    |     |      |      |      |      | 107.4 |
| RUN: 74/7                 | 250   | 64.2    | 68.9    | 69.9    | 70.7    | 71.4    | 73.4    | 72.9    | 73.2    | 74.4    | 75.5    | 76.9    |     |      |      |      |      | 104.8 |
| TAPE                      | 315   | 70.7    | 71.4    | 71.9    | 72.4    | 72.9    | 75.7    | 73.5    | 74.0    | 75.0    | 76.0    | 77.1    |     |      |      |      |      | 106.0 |
| BAR 30.1 HG               | 400   | 69.3    | 70.7    | 70.7    | 72.2    | 73.1    | 75.2    | 74.5    | 74.7    | 75.7    | 76.0    | 76.7    |     |      |      |      |      | 104.0 |
| (101717. N/M2)            | 500   | 67.6    | 68.7    | 69.4    | 71.2    | 72.4    | 75.7    | 75.0    | 76.0    | 76.7    | 76.5    | 75.7    |     |      |      |      |      | 108.2 |
| TAMP 37. DEG F            | 630   | 70.8    | 71.2    | 72.9    | 75.2    | 76.2    | 79.5    | 79.0    | 80.0    | 80.2    | 79.6    | 77.2    |     |      |      |      |      | 111.8 |
| (270. DEG F)              | 800   | 71.4    | 72.0    | 73.2    | 74.5    | 76.2    | 79.2    | 79.1    | 80.0    | 80.2    | 79.6    | 76.2    |     |      |      |      |      | 111.7 |
| THET 27. DEG F            | 1000  | 70.9    | 72.5    | 73.7    | 76.3    | 78.0    | 82.3    | 81.8    | 82.8    | 84.2    | 82.3    | 77.5    |     |      |      |      |      | 114.4 |
| (270. DEG F)              | 1250  | 75.4    | 77.3    | 79.5    | 81.8    | 83.8    | 89.3    | 87.8    | 88.1    | 86.8    | 86.1    | 81.0    |     |      |      |      |      | 119.6 |
| MACT 0.99 GM/M3           | 1600  | 81.5    | 84.6    | 85.7    | 87.9    | 89.3    | 95.6    | 94.1    | 93.1    | 89.8    | 89.2    | 85.5    |     |      |      |      |      | 129.1 |
| (1.00099 KG/M3)           | 2000  | 75.5    | 76.4    | 78.0    | 80.7    | 82.8    | 86.9    | 86.1    | 85.8    | 86.3    | 84.9    | 80.0    |     |      |      |      |      | 118.0 |
| NFA 5889. RPM             | 2500  | 75.0    | 75.9    | 79.3    | 82.5    | 84.9    | 88.9    | 87.8    | 87.6    | 88.8    | 86.7    | 80.0    |     |      |      |      |      | 119.9 |
| (617. RAD/SEC)            | 3150  | 77.7    | 79.6    | 83.0    | 86.7    | 89.1    | 90.6    | 89.8    | 91.5    | 92.3    | 89.4    | 83.5    |     |      |      |      |      | 123.0 |
| NFK 6018. RPM             | 4000  | 72.1    | 74.6    | 78.4    | 80.2    | 82.8    | 87.0    | 87.2    | 88.2    | 88.7    | 86.3    | 79.6    |     |      |      |      |      | 119.2 |
| (630. RAD/SEC)            | 5000  | 71.1    | 72.8    | 75.1    | 79.2    | 82.0    | 86.0    | 86.1    | 87.3    | 88.4    | 84.8    | 78.5    |     |      |      |      |      | 118.3 |
| NFD 8823. RPM             | 6300  | 69.6    | 72.0    | 75.7    | 79.2    | 81.8    | 86.1    | 85.8    | 86.6    | 88.8    | 84.2    | 77.6    |     |      |      |      |      | 116.7 |
| (924. RAD/SEC)            | 8030  | 67.3    | 69.8    | 71.9    | 76.4    | 79.4    | 83.7    | 83.5    | 85.7    | 84.6    | 83.3    | 76.3    |     |      |      |      |      | 118.4 |
| NO. OF BLADES 15          | 10000 | 66.2    | 69.0    | 71.3    | 76.3    | 79.1    | 83.2    | 83.6    | 85.1    | 86.6    | 82.4    | 76.4    |     |      |      |      |      | 116.3 |
| FAN TIP SPEED 514. FT/SEC | 12500 | 66.8    | 68.3    | 71.4    | 75.4    | 78.3    | 83.1    | 83.5    | 86.2    | 86.4    | 82.4    | 78.9    |     |      |      |      |      | 118.6 |
|                           | 16000 | 63.5    | 65.4    | 68.2    | 73.0    | 76.0    | 80.3    | 81.3    | 84.2    | 85.4    | 79.9    | 74.9    |     |      |      |      |      | 115.0 |
|                           | 20000 | 62.6    | 64.3    | 66.8    | 72.0    | 75.2    | 79.8    | 81.2    | 83.7    | 85.7    | 80.6    | 74.0    |     |      |      |      |      | 115.3 |
|                           | 25030 | 60.3    | 62.4    | 64.9    | 70.5    | 73.0    | 78.4    | 79.1    | 80.6    | 82.3    | 78.0    | 70.6    |     |      |      |      |      | 113.2 |
|                           | 31570 | 58.9    | 61.0    | 63.7    | 68.9    | 71.8    | 77.6    | 77.6    | 79.1    | 80.8    | 76.4    | 68.5    |     |      |      |      |      | 112.8 |
|                           | 40000 | 56.3    | 57.3    | 60.5    | 65.8    | 68.2    | 73.7    | 74.5    | 75.1    | 77.5    | 72.7    | 62.3    |     |      |      |      |      | 110.6 |
|                           | 50000 | 55.8    | 55.3    | 57.9    | 62.5    | 64.7    | 70.1    | 70.8    | 70.0    | 72.1    | 68.9    | 57.7    |     |      |      |      |      | 108.0 |
|                           | 63000 | 55.5    | 53.8    | 55.9    | 61.2    | 61.8    | 65.8    | 63.6    | 62.8    | 64.5    | 61.3    | 53.8    |     |      |      |      |      | 104.9 |
|                           | 80000 | 57.8    | 61.9    | 58.0    | 63.1    | 63.2    | 65.9    | 67.0    | 66.9    | 68.3    | 65.0    | 62.3    |     |      |      |      |      | 107.9 |
| OVERALL MEASURED          |       |         |         |         |         |         |         |         |         |         |         |         |     |      |      |      |      |       |
| OVERALL CALCULATED        |       | 86.7    | 88.8    | 90.6    | 93.5    | 95.5    | 99.9    | 99.0    | 99.7    | 99.9    | 97.4    | 92.8    |     |      |      |      |      | 131.4 |
| PND8                      |       | 99.6    | 101.4   | 103.9   | 107.2   | 109.4   | 112.2   | 111.5   | 112.7   | 113.2   | 110.9   | 105.9   |     |      |      |      |      |       |

|                    | FREQ.  | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156   | 0     | 0     | 0     | 0     | 0     | 0     |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
|                    | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.0) | (3.3) | (3.6) | (3.9) | (4.2) | (4.5) | (4.8) |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
| (60.96 M)          | 63     |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
| VEHICLE R-59       | 100    | 50.6   | 50.5   | 52.6   | 56.0   | 55.3   | 53.2   | 47.8   | 45.7   | 47.0   | 48.0   | 47.6  |       |       |       |       |       |       |
| CONFIG 75-6F       | 125    | 43.2   | 46.4   | 49.3   | 48.6   | 50.2   | 49.8   | 46.5   | 49.4   | 48.7   | 47.1   | 45.9  |       |       |       |       |       |       |
| LCC SCHWENCTADY    | 160    | 42.1   | 44.0   | 44.7   | 48.1   | 46.2   | 48.3   | 47.7   | 48.3   | 48.8   | 47.9   | 46.4  |       |       |       |       |       |       |
| DATE 2/3/75        | 200    | 41.8   | 43.2   | 45.1   | 46.7   | 48.1   | 51.9   | 49.8   | 51.2   | 51.0   | 50.3   | 48.5  |       |       |       |       |       |       |
| RUN 7477           | 250    | 44.2   | 45.8   | 47.5   | 48.7   | 49.5   | 51.3   | 50.2   | 49.8   | 49.6   | 48.4   | 46.0  |       |       |       |       |       |       |
| TAPE               | 315    | 46.6   | 48.3   | 49.4   | 50.3   | 50.9   | 53.5   | 50.9   | 50.5   | 50.0   | 47.8   | 46.1  |       |       |       |       |       |       |
| BAR 30.1 HG        | 400    | 45.0   | 47.4   | 48.1   | 50.0   | 51.1   | 53.0   | 51.8   | 51.1   | 50.6   | 48.6   | 45.3  |       |       |       |       |       |       |
| (101717. N/M2)     | 500    | 43.2   | 45.3   | 46.7   | 48.9   | 50.3   | 53.4   | 52.2   | 52.3   | 51.5   | 49.0   | 44.1  |       |       |       |       |       |       |
| TAMB 37. DEG F     | 630    | 46.3   | 47.7   | 50.2   | 52.0   | 53.9   | 57.1   | 56.1   | 56.2   | 54.9   | 51.8   | 45.4  |       |       |       |       |       |       |
| (276. DEG K)       | 800    | 46.7   | 48.4   | 50.3   | 52.0   | 53.9   | 56.7   | 56.0   | 56.0   | 54.7   | 51.6   | 44.1  |       |       |       |       |       |       |
| TNET 27. DEG F     | 1000   | 46.1   | 48.7   | 50.7   | 53.7   | 55.5   | 59.6   | 58.6   | 58.7   | 58.6   | 54.1   | 45.0  |       |       |       |       |       |       |
| (270. DEG K)       | 1250   | 50.4   | 53.4   | 56.3   | 59.1   | 61.2   | 66.5   | 64.5   | 63.8   | 60.9   | 57.7   | 46.2  |       |       |       |       |       |       |
| MAC 0.99 CM/M3     | 1600   | 56.2   | 60.5   | 62.4   | 65.0   | 66.5   | 72.6   | 70.6   | 68.6   | 63.7   | 60.4   | 52.2  |       |       |       |       |       |       |
| (1.00099 KG/M3)    | 2000   | 50.0   | 52.1   | 54.5   | 57.6   | 59.9   | 63.7   | 62.4   | 61.1   | 59.0   | 55.9   | 46.3  |       |       |       |       |       |       |
| NFA 5889. RPH      | 2500   | 49.3   | 52.4   | 55.5   | 59.2   | 61.7   | 65.6   | 63.9   | 62.6   | 62.2   | 57.3   | 45.8  |       |       |       |       |       |       |
| ( 617. RA-/SEC)    | 3150   | 51.7   | 54.8   | 59.0   | 63.2   | 65.7   | 67.0   | 65.6   | 66.3   | 65.3   | 59.6   | 48.5  |       |       |       |       |       |       |
| NFK 6018. RPH      | 4000   | 45.6   | 49.3   | 51.9   | 56.7   | 59.0   | 63.0   | 62.6   | 62.4   | 61.1   | 56.8   | 43.6  |       |       |       |       |       |       |
| ( 630. RA-/SEC)    | 5000   | 44.2   | 47.2   | 50.3   | 54.9   | 58.0   | 61.7   | 61.2   | 61.3   | 60.5   | 53.8   | 41.9  |       |       |       |       |       |       |
| NFD 6823. RPH      | 6300   | 42.1   | 45.6   | 50.2   | 54.3   | 57.1   | 61.2   | 60.2   | 61.7   | 60.9   | 51.9   | 39.4  |       |       |       |       |       |       |
| ( 924. RA-/SEC)    | 8000   | 38.2   | 42.2   | 45.3   | 50.3   | 53.6   | 57.6   | 56.7   | 57.5   | 56.2   | 49.1   | 38.0  |       |       |       |       |       |       |
| NO. OF BLADES 15   | 10000  | 35.2   | 39.7   | 43.1   | 48.7   | 51.8   | 55.6   | 55.2   | 55.1   | 54.1   | 45.5   | 31.2  |       |       |       |       |       |       |
| FAW TIP SPEED      | 12500  | 32.8   | 36.4   | 40.9   | 45.6   | 48.8   | 53.3   | 52.7   | 53.6   | 50.8   | 41.8   | 28.8  |       |       |       |       |       |       |
| 514. FT/SEC        | 16000  | 24.9   | 29.4   | 33.9   | 39.6   | 42.6   | 46.7   | 46.6   | 47.3   | 44.7   | 32.7   | 14.5  |       |       |       |       |       |       |
|                    | 20000  | 17.9   | 22.9   | 27.4   | 33.8   | 37.3   | 41.4   | 41.4   | 41.2   | 38.4   | 24.9   | 1.2   |       |       |       |       |       |       |
|                    | 25000  | 7.0    | 13.2   | 18.4   | 25.4   | 28.4   | 33.1   | 32.0   | 29.9   | 25.5   | 10.1   |       |       |       |       |       |       |       |
|                    | 31500  |        | 0.4    | 6.6    | 13.7   | 17.2   | 22.2   | 19.8   | 16.6   | 10.0   |        |       |       |       |       |       |       |       |
|                    | 40000  |        |        |        |        |        | 3.3    | 0.6    |        |        |        |       |       |       |       |       |       |       |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
| OVERALL CALCULATED |        | 61.4   | 64.4   | 68.9   | 76.1   | 78.1   | 76.3   | 74.7   | 74.8   | 72.0   | 67.5   | 59.6  |       |       |       |       |       |       |
| PND8               |        | 73.5   | 76.8   | 79.9   | 83.7   | 86.0   | 88.0   | 87.3   | 87.4   | 86.2   | 81.0   | 71.1  |       |       |       |       |       |       |



MODEL SOUND

PRESSURE LEVELS 159. DEC. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|   | 53.   | 62.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0.   | 0.   | 0.   | 0.   | 0.   | 0.   | PdB   |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| FREQ. (0.92)(1.08)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)10. | 110.  | 110.  | 110.  | 110.  | 110.  | 110.  | 110.  | 110.  | 110.  | 110.  | 110.  | 110. | 110. | 110. | 110. | 110. | 110. |       |
| 50  |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |       |
| 63  |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |       |
| 80  |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |       |
| RADIAL 17. FT.  | 100   | 76.0  | 76.6  | 74.6  | 73.4  | 72.4  | 72.4  | 69.1  | 69.4  | 72.7  | 76.3  | 79.6 |      |      |      |      |      | 108.4 |
| (5. M)  | 125   | 68.3  | 70.4  | 72.4  | 71.9  | 72.9  | 72.7  | 70.9  | 73.4  | 74.7  | 76.1  | 79.1 |      |      |      |      |      | 107.5 |
| VEHICLE R-55  | 160   | 68.3  | 68.6  | 68.9  | 71.4  | 69.1  | 71.4  | 71.9  | 73.2  | 75.0  | 77.3  | 78.9 |      |      |      |      |      | 107.1 |
| CONFIG 75-6E  | 200   | 67.0  | 67.9  | 68.9  | 71.2  | 70.4  | 73.9  | 73.4  | 75.2  | 76.5  | 79.1  | 80.3 |      |      |      |      |      | 106.5 |
| LCC SCHENECTATY   | 250   | 69.3  | 70.4  | 71.9  | 73.9  | 72.4  | 75.4  | 74.4  | 75.4  | 76.2  | 77.8  | 78.8 |      |      |      |      |      | 106.8 |
| DATE 2/3/75   | 315   | 72.1  | 73.4  | 73.6  | 76.2  | 74.6  | 76.4  | 75.6  | 75.4  | 76.7  | 78.1  | 78.3 |      |      |      |      |      | 109.8 |
| RUN 74/6  | 400   | 70.8  | 72.1  | 71.9  | 73.4  | 74.1  | 77.2  | 75.9  | 76.4  | 77.0  | 78.1  | 78.6 |      |      |      |      |      | 109.6 |
| TAPE  | 500   | 69.4  | 70.4  | 70.9  | 72.2  | 73.4  | 77.0  | 76.1  | 76.9  | 76.5  | 78.1  | 77.4 |      |      |      |      |      | 109.5 |
| BAR 30-1 HG   | 630   | 72.9  | 72.9  | 74.2  | 76.5  | 77.4  | 81.0  | 80.6  | 80.7  | 81.3  | 80.9  | 78.4 |      |      |      |      |      | 113.0 |
| (01717. N/M2)   | 800   | 72.4  | 72.9  | 73.9  | 75.7  | 76.9  | 80.7  | 80.1  | 80.7  | 81.5  | 80.6  | 77.4 |      |      |      |      |      | 112.8 |
| TAMB 37. DEG F  | 1000  | 72.2  | 73.9  | 74.4  | 77.0  | 79.2  | 83.3  | 82.9  | 84.0  | 84.8  | 83.6  | 78.2 |      |      |      |      |      | 115.4 |
| (1276. DEG K)   | 1250  | 74.8  | 75.7  | 78.2  | 81.8  | 84.6  | 88.3  | 87.7  | 87.2  | 86.8  | 86.2  | 80.2 |      |      |      |      |      | 119.2 |
| THEY 27. DEG F  | 1600  | 82.8  | 83.8  | 85.7  | 92.9  | 94.8  | 99.1  | 98.7  | 97.2  | 94.3  | 93.7  | 87.2 |      |      |      |      |      | 129.2 |
| (270. DEG K)  | 2000  | 77.8  | 78.6  | 79.7  | 82.7  | 84.8  | 89.1  | 88.4  | 88.5  | 87.8  | 86.5  | 80.7 |      |      |      |      |      | 120.1 |
| HACT 0.99 GM/M3   | 2500  | 76.3  | 77.8  | 80.0  | 82.7  | 84.9  | 89.4  | 89.2  | 88.7  | 89.1  | 87.5  | 80.4 |      |      |      |      |      | 120.6 |
| (.00099 KG/M3)  | 3150  | 87.0  | 85.3  | 87.5  | 87.7  | 89.9  | 93.4  | 96.4  | 98.7  | 95.6  | 93.5  | 85.7 |      |      |      |      |      | 127.6 |
| NFA 6197. RPM   | 4000  | 73.7  | 76.0  | 77.9  | 81.2  | 84.1  | 88.0  | 88.8  | 88.8  | 90.2  | 87.2  | 80.3 |      |      |      |      |      | 120.4 |
| (649. RA <sub>1</sub> /SEC)   | 5000  | 73.9  | 75.5  | 78.3  | 82.4  | 85.5  | 88.5  | 88.4  | 89.7  | 90.4  | 86.6  | 79.7 |      |      |      |      |      | 120.7 |
| NFK 6333. RPM   | 6300  | 71.6  | 74.7  | 77.2  | 82.2  | 83.8  | 86.6  | 87.4  | 86.7  | 89.6  | 85.0  | 79.0 |      |      |      |      |      | 119.6 |
| (663. RAD/SEC)  | 8000  | 68.4  | 71.5  | 74.4  | 78.1  | 80.4  | 85.2  | 85.1  | 86.9  | 87.6  | 84.9  | 78.3 |      |      |      |      |      | 117.8 |
| NFB 8823. RPM   | 10000 | 68.8  | 71.0  | 73.8  | 78.0  | 80.6  | 84.9  | 85.5  | 88.7  | 88.9  | 84.3  | 77.6 |      |      |      |      |      | 118.6 |
| (924. RA <sub>1</sub> /SEC)   | 12500 | 68.3  | 70.2  | 72.2  | 76.9  | 80.6  | 84.9  | 85.4  | 89.4  | 87.9  | 84.2  | 77.6 |      |      |      |      |      | 118.8 |
| NO. OF BLADES 15  | 16000 | 66.3  | 67.8  | 70.2  | 74.7  | 78.2  | 83.0  | 83.4  | 85.1  | 86.6  | 81.5  | 75.3 |      |      |      |      |      | 116.8 |
| FAN TIP SPEED   | 20000 | 65.1  | 66.8  | 69.5  | 74.5  | 77.4  | 82.0  | 83.7  | 85.9  | 87.7  | 82.7  | 75.5 |      |      |      |      |      | 117.5 |
| 541. FT/SEC   | 25000 | 63.6  | 65.3  | 67.4  | 72.0  | 75.0  | 79.9  | 81.7  | 82.2  | 84.6  | 80.6  | 72.6 |      |      |      |      |      | 115.3 |
|   | 31500 | 62.2  | 63.7  | 66.0  | 71.1  | 73.8  | 78.8  | 79.7  | 81.6  | 82.5  | 78.7  | 70.5 |      |      |      |      |      | 114.7 |
|   | 40000 | 60.6  | 61.5  | 63.5  | 67.6  | 70.2  | 75.7  | 77.1  | 77.2  | 79.3  | 75.0  | 64.8 |      |      |      |      |      | 112.7 |
|   | 50000 | 62.1  | 60.8  | 62.6  | 63.7  | 66.4  | 71.1  | 73.2  | 72.6  | 73.6  | 70.9  | 60.9 |      |      |      |      |      | 110.0 |
|   | 63000 | 63.5  | 60.5  | 62.2  | 61.5  | 62.3  | 66.1  | 66.7  | 65.7  | 66.6  | 64.9  | 59.0 |      |      |      |      |      | 107.3 |
|   | 80000 | 66.9  | 63.1  | 65.8  | 63.1  | 63.2  | 65.9  | 64.6  | 63.6  | 62.9  | 63.1  | 61.7 |      |      |      |      |      | 111.2 |
| OVERALL MEASURED  |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |       |
| OVERALL CALCULATED  | 88.7  | 90.5  | 92.3  | 96.1  | 98.2  | 102.2 | 102.6 | 103.2 | 102.0 | 99.8  | 94.2  |      |      |      |      |      |      | 134.1 |
| PND8  | 102.5 | 104.9 | 106.9 | 108.8 | 110.7 | 114.6 | 115.6 | 117.2 | 115.6 | 113.7 | 107.6 |      |      |      |      |      |      |       |

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

PHCC. DATE - MONTH 4 DAY 9 HR. 14.9  
 MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENTY REL. HUM. DAY)

|                     |       | 53.  | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0. | 0. | 0. | 0. | 0. |
|---------------------|-------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----|----|----|----|
|                     | FREQ. | (0.92)                                     | (1.08) | (1.24) | (1.41) | (1.56) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0. | 0. | 0. | 0. | 0. |
|                     |       | ANGLES FROM INLET IN DEGREES (AND RADIANS) |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
| SIDELINE 200. FT.   | 50    |  |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
| ( 80.96 MI          | 63    |  |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
| VEHICLE R-55        | 100   | 52.4                                       | 53.9   | 52.6   | 51.7   | 50.8   | 50.7   | 46.9   | 46.3   | 46.3   | 49.8   | 49.8   |    |    |    |    |    |
| CONFIG 75-6P        | 125   | 44.5                                       | 47.6   | 50.2   | 50.1   | 51.2   | 50.8   | 48.6   | 50.3   | 50.2   | 49.4   | 48.9   |    |    |    |    |    |
| LCC SCHEMECTADY     | 160   | 44.4                                       | 45.7   | 46.7   | 49.6   | 47.4   | 49.5   | 49.5   | 49.9   | 50.3   | 50.5   | 48.4   |    |    |    |    |    |
| DATE 2/3/75         | 200   | 43.1                                       | 44.9   | 46.6   | 49.2   | 48.6   | 51.9   | 50.9   | 51.8   | 51.7   | 52.1   | 49.7   |    |    |    |    |    |
| RUN 74/8            | 250   | 45.2                                       | 47.3   | 49.5   | 51.9   | 50.5   | 53.3   | 51.8   | 52.0   | 51.4   | 50.7   | 48.0   |    |    |    |    |    |
| TAPE                | 315   | 47.9                                       | 50.2   | 51.2   | 54.1   | 52.7   | 54.3   | 53.0   | 51.9   | 51.8   | 50.8   | 47.3   |    |    |    |    |    |
| BAR 30.1 HG         | 400   | 46.8                                       | 48.9   | 49.3   | 51.3   | 52.1   | 55.0   | 53.2   | 52.9   | 51.9   | 50.7   | 47.3   |    |    |    |    |    |
| (01717. W/M2)       | 500   | 45.0                                       | 47.0   | 48.2   | 49.9   | 51.3   | 54.6   | 53.3   | 53.2   | 53.3   | 50.5   | 45.8   |    |    |    |    |    |
| TAMD 37. DEG F      | 630   | 48.4                                       | 49.4   | 51.4   | 54.1   | 55.2   | 58.6   | 57.7   | 56.8   | 55.9   | 53.1   | 46.6   |    |    |    |    |    |
| (276. DEG K)        | 800   | 47.8                                       | 49.3   | 51.0   | 53.3   | 54.6   | 58.2   | 57.1   | 56.7   | 56.0   | 52.7   | 45.3   |    |    |    |    |    |
| THET 27. DEG F      | 1000  | 47.4                                       | 50.2   | 51.4   | 54.4   | 56.7   | 60.6   | 59.7   | 59.8   | 59.1   | 55.5   | 45.7   |    |    |    |    |    |
| (276. DEG K)        | 1250  | 49.8                                       | 51.8   | 53.1   | 56.1   | 61.4   | 65.5   | 64.3   | 62.9   | 60.9   | 57.8   | 47.4   |    |    |    |    |    |
| MACT 0.99 CM/M3     | 1500  | 57.6                                       | 59.7   | 62.4   | 70.0   | 72.0   | 76.1   | 75.2   | 72.7   | 68.2   | 65.0   | 53.9   |    |    |    |    |    |
| (-00099 KC/M3)      | 2000  | 52.3                                       | 54.3   | 56.2   | 59.6   | 61.9   | 66.0   | 64.7   | 63.8   | 61.5   | 57.4   | 47.0   |    |    |    |    |    |
| NFA 6197. RPM       | 2500  | 55.6                                       | 53.3   | 56.3   | 59.5   | 61.7   | 66.1   | 65.3   | 63.8   | 62.5   | 58.1   | 46.2   |    |    |    |    |    |
| ( 649. RAD/SEC)     | 3150  | 56.0                                       | 60.3   | 63.4   | 64.2   | 68.5   | 69.8   | 72.2   | 73.4   | 68.6   | 63.8   | 50.7   |    |    |    |    |    |
| NFK 6333. RPM       | 4000  | 47.1                                       | 50.7   | 53.4   | 57.2   | 60.3   | 64.0   | 64.1   | 63.1   | 62.6   | 58.8   | 44.3   |    |    |    |    |    |
| ( 663. RAD/SEC)     | 5000  | 47.0                                       | 49.9   | 53.6   | 56.2   | 61.5   | 64.2   | 63.6   | 63.7   | 62.5   | 58.6   | 43.1   |    |    |    |    |    |
| NFD 6823. RPM       | 6300  | 43.9                                       | 48.3   | 51.7   | 57.3   | 59.1   | 61.7   | 61.7   | 61.9   | 60.7   | 52.7   | 40.8   |    |    |    |    |    |
| ( 924. RAD/SEC)     | 8000  | 39.3                                       | 43.9   | 47.8   | 52.1   | 54.6   | 59.1   | 58.3   | 58.7   | 57.2   | 50.7   | 37.8   |    |    |    |    |    |
| NO. OF BLADES 15    | 10000 | 37.7                                       | 41.8   | 45.6   | 50.5   | 53.3   | 57.3   | 57.0   | 58.8   | 56.3   | 47.4   | 32.4   |    |    |    |    |    |
| PAN TIP SPEED 16000 | 12500 | 34.4                                       | 38.3   | 41.6   | 47.1   | 51.0   | 55.0   | 54.6   | 56.8   | 52.3   | 43.4   | 26.7   |    |    |    |    |    |
| ( 541. FT/SEC)      | 20000 | 27.5                                       | 31.6   | 35.9   | 41.3   | 45.1   | 49.5   | 48.7   | 48.2   | 46.0   | 34.2   | 14.8   |    |    |    |    |    |
|                     | 25000 | 20.5                                       | 25.3   | 30.1   | 36.3   | 39.3   | 43.7   | 43.9   | 43.3   | 40.4   | 28.9   | 2.7    |    |    |    |    |    |
|                     | 31500 | 10.3                                       | 16.1   | 20.9   | 26.9   | 30.4   | 34.6   | 34.5   | 31.6   | 27.8   | 12.2   |        |    |    |    |    |    |
|                     | 40000 |  | 3.1    | 8.8    | 16.0   | 19.2   | 23.5   | 21.9   | 19.0   | 11.8   |        |        |    |    |    |    |    |
|                     | 50000 |  |        |        |        | 0.8    | 5.3    | 3.3    |        |        |        |        |    |    |    |    |    |
|                     | 63000 |  |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
|                     | 80000 |  |        |        |        |        |        |        |        |        |        |        |    |    |    |    |    |
| OVERALL CALCULATED  |       | 63.2                                       | 66.8   | 68.4   | 72.8   | 74.9   | 78.7   | 78.4   | 77.7   | 74.3   | 70.1   | 60.9   |    |    |    |    |    |
| PHCC                |       | 76.4                                       | 69.1   | 62.8   | 65.5   | 67.5   | 91.3   | 91.6   | 92.0   | 88.6   | 63.9   | 72.8   |    |    |    |    |    |



|                    | 53.   | 62.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0.   | 0. | 0. | 0. | 0. |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----|----|----|----|
| FREQ.              | 10.92 | 11.08 | 11.24 | 11.41 | 11.58 | 11.76 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 0.   | 0. | 0. | 0. | 0. |
| SIZE LINE 230. FT. | 50    | 63    | 60    |       |       |       |       |       |       |       |       |      |    |    |    |    |
| ( 60.96 M)         | 100   | 48.4  | 52.7  | 51.6  | 47.7  | 47.8  | 54.4  | 53.2  | 51.1  | 50.8  | 51.3  | 50.3 |    |    |    |    |
| VEHICLE R-55       | 125   | 45.5  | 49.3  | 51.0  | 49.7  | 51.5  | 51.6  | 50.1  | 51.3  | 51.2  | 50.9  | 49.9 |    |    |    |    |
| COLFIG 78-68       | 160   | 45.2  | 46.7  | 47.7  | 48.3  | 48.7  | 50.5  | 50.3  | 50.9  | 51.3  | 51.3  | 49.8 |    |    |    |    |
| LOC SCHENECTADY    | 200   | 44.6  | 46.4  | 47.9  | 49.5  | 50.1  | 53.2  | 51.9  | 53.1  | 53.0  | 53.1  | 50.9 |    |    |    |    |
| DATE 2/3/75        | 250   | 47.2  | 48.6  | 50.2  | 51.2  | 51.7  | 54.1  | 53.3  | 52.5  | 52.9  | 51.7  | 49.2 |    |    |    |    |
| RUN 74/9           | 315   | 49.1  | 51.2  | 51.9  | 53.1  | 53.4  | 55.8  | 54.0  | 53.1  | 52.5  | 51.8  | 48.8 |    |    |    |    |
| TAPE               | 400   | 47.3  | 49.6  | 50.3  | 52.3  | 52.8  | 55.7  | 53.9  | 53.8  | 52.6  | 51.4  | 47.8 |    |    |    |    |
| BAR 30.1 HG        | 500   | 46.0  | 47.9  | 49.0  | 50.7  | 52.0  | 54.9  | 54.6  | 54.4  | 53.8  | 51.9  | 48.6 |    |    |    |    |
| 101717. N/M2       | 630   | 49.1  | 50.0  | 52.7  | 54.6  | 58.0  | 58.8  | 58.5  | 57.8  | 56.6  | 53.9  | 47.3 |    |    |    |    |
| TAMP 38. DEG F     | 800   | 49.8  | 50.3  | 51.8  | 54.3  | 55.6  | 58.7  | 57.6  | 57.5  | 56.7  | 53.7  | 48.0 |    |    |    |    |
| 1276. DEG F        | 1000  | 48.1  | 50.9  | 52.7  | 55.2  | 57.0  | 60.9  | 60.2  | 60.8  | 60.1  | 56.7  | 46.7 |    |    |    |    |
| T-ET 27. DEG F     | 1250  | 50.7  | 52.6  | 55.5  | 58.6  | 60.6  | 64.3  | 63.8  | 62.7  | 60.7  | 58.3  | 48.1 |    |    |    |    |
| (276. DEG K)       | 1600  | 63.3  | 67.2  | 68.9  | 68.5  | 71.8  | 75.4  | 75.9  | 74.0  | 67.9  | 67.5  | 55.4 |    |    |    |    |
| HACT 0.69 CM/MS    | 2000  | 54.0  | 55.7  | 58.7  | 61.8  | 64.1  | 67.2  | 65.9  | 64.5  | 63.2  | 58.1  | 47.7 |    |    |    |    |
| (.00069 KG/MS)     | 2500  | 51.3  | 53.8  | 56.5  | 60.4  | 62.4  | 66.7  | 66.2  | 64.2  | 63.2  | 57.8  | 46.7 |    |    |    |    |
| NFA 6435. RPM      | 3150  | 54.7  | 57.2  | 60.6  | 64.9  | 67.4  | 69.4  | 70.4  | 69.9  | 69.5  | 62.1  | 50.2 |    |    |    |    |
| ( 674. RAD/SEC)    | 4000  | 45.3  | 50.6  | 54.6  | 58.9  | 61.7  | 64.7  | 64.8  | 64.0  | 63.3  | 58.3  | 48.8 |    |    |    |    |
| NFX 6589. RPM      | 5000  | 48.2  | 50.5  | 54.0  | 58.6  | 61.6  | 65.4  | 65.2  | 64.9  | 63.2  | 55.5  | 43.5 |    |    |    |    |
| ( 684. RAD/SEC)    | 6300  | 44.5  | 48.0  | 50.9  | 55.7  | 58.5  | 62.6  | 62.4  | 62.8  | 62.1  | 53.6  | 48.5 |    |    |    |    |
| NFB 6823. RPM      | 8000  | 41.1  | 44.3  | 48.2  | 53.5  | 56.2  | 60.8  | 60.2  | 60.4  | 60.4  | 51.1  | 37.4 |    |    |    |    |
| ( 924. RAD/SEC)    | 10000 | 38.3  | 42.2  | 46.2  | 51.4  | 54.4  | 59.2  | 57.9  | 58.4  | 57.8  | 48.8  | 33.8 |    |    |    |    |
| NO. OF BLADES 13   | 12500 | 35.8  | 38.7  | 42.5  | 47.8  | 51.7  | 55.9  | 55.2  | 55.4  | 52.8  | 43.5  | 28.8 |    |    |    |    |
| PAR TIP SPEED      | 16000 | 27.8  | 32.5  | 37.2  | 42.4  | 45.9  | 49.6  | 49.6  | 49.1  | 46.6  | 35.1  | 18.1 |    |    |    |    |
| 562. FT/SEC        | 20000 | 28.0  | 29.4  | 31.2  | 33.9  | 40.4  | 44.3  | 43.8  | 44.2  | 40.8  | 27.1  | 3.3  |    |    |    |    |
|                    | 25000 | 10.7  | 16.5  | 22.4  | 29.3  | 31.7  | 35.7  | 35.7  | 35.4  | 28.8  | 12.8  |      |    |    |    |    |
|                    | 31500 |       | 4.2   | 18.2  | 18.8  |       | 1.9   | 6.3   | 3.9   |       |       |      |    |    |    |    |
|                    | 40000 |       |       |       |       |       |       |       |       |       |       |      |    |    |    |    |
|                    | 50000 |       |       |       |       |       |       |       |       |       |       |      |    |    |    |    |
|                    | 63000 |       |       |       |       |       |       |       |       |       |       |      |    |    |    |    |
|                    | 80000 |       |       |       |       |       |       |       |       |       |       |      |    |    |    |    |
| OVERALL CALCULATED | 65.7  | 68.8  | 69.9  | 72.9  | 75.2  | 76.5  | 78.7  | 77.4  | 74.9  | 76.9  | 61.8  |      |    |    |    |    |
| PROB               | 78.2  | 81.4  | 82.5  | 86.7  | 88.8  | 91.2  | 91.3  | 90.4  | 88.4  | 83.7  | 73.1  |      |    |    |    |    |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

NOISE SOUND PRESSURE LEVELS (59. DEG. F. TO 90 PERCENT REL. HUM. DAY)  
 PROC. DATE \* MONTH 4 DAY 9 HR. 15.0  
 ANGLES FROM INLET IN DEGREES (AND RADIAN)

|                        | 53    | 62    | 71    | 81    | 91    | 101   | 111   | 120   | 133   | 145   | 156   | 0°    | 0°    | 0°    | 0°    | 0°    | 0°    | 0°    |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FREQ.                  | 10.72 | 11.38 | 12.11 | 12.91 | 13.78 | 14.71 | 15.71 | 16.78 | 17.91 | 19.11 | 20.38 | 21.71 | 23.11 | 24.51 | 25.91 | 27.31 | 28.71 | 30.11 |
| RADIAL 17. FT.         | 50    | 63    | 80    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ( S. M)                | 100   | 129   | 160   | 200   | 250   | 315   | 400   | 500   | 630   | 800   | 1000  | 1250  | 1600  | 2000  | 2500  | 3150  | 4000  | 5000  |
| VEHICLE R-55           | 47.3  | 73.1  | 79.1  | 79.8  | 77.4  | 78.9  | 74.9  | 74.1  | 76.7  | 77.7  | 79.8  | 82.6  | 83.4  | 84.6  | 85.1  | 86.7  | 88.9  | 91.5  |
| CONFIC 75-80           | 71.0  | 71.9  | 72.1  | 72.4  | 72.4  | 74.7  | 74.9  | 76.7  | 79.0  | 81.1  | 83.4  | 83.4  | 84.6  | 85.1  | 86.7  | 88.9  | 91.5  | 93.4  |
| LOC SCHENECTADY        | 70.3  | 78.4  | 71.1  | 72.4  | 73.6  | 77.2  | 76.1  | 77.9  | 79.7  | 82.6  | 84.6  | 84.6  | 85.1  | 86.7  | 88.9  | 91.5  | 93.4  | 93.4  |
| DATE 2/3/73            | 73.3  | 74.1  | 75.1  | 75.2  | 76.1  | 78.1  | 78.1  | 78.4  | 78.4  | 80.2  | 81.6  | 83.1  | 83.1  | 84.6  | 86.7  | 88.9  | 91.5  | 93.4  |
| RUN 74/10              | 75.3  | 76.4  | 76.4  | 76.7  | 76.8  | 79.7  | 78.4  | 78.7  | 80.0  | 82.1  | 82.4  | 82.4  | 82.4  | 84.6  | 86.7  | 88.9  | 91.5  | 93.4  |
| TAPE                   | 73.0  | 74.1  | 74.7  | 75.7  | 76.4  | 78.9  | 78.1  | 79.2  | 81.1  | 81.1  | 82.1  | 82.1  | 82.1  | 84.6  | 86.7  | 88.9  | 91.5  | 93.4  |
| BAR 30-1 HG            | 72.1  | 72.9  | 73.7  | 74.5  | 75.9  | 79.0  | 78.9  | 79.4  | 80.5  | 81.1  | 81.1  | 81.1  | 81.1  | 82.1  | 84.6  | 86.7  | 88.9  | 91.5  |
| (01717) N/M2           | 75.7  | 75.4  | 76.7  | 76.5  | 79.4  | 83.2  | 82.9  | 82.7  | 83.5  | 82.9  | 81.4  | 81.4  | 81.4  | 82.1  | 84.6  | 86.7  | 88.9  | 91.5  |
| TAPD 30. DEG F         | 75.4  | 75.9  | 76.4  | 76.3  | 79.4  | 83.0  | 82.6  | 83.2  | 83.8  | 83.4  | 80.9  | 80.9  | 80.9  | 81.4  | 84.6  | 86.7  | 88.9  | 91.5  |
| (270. DEG N)           | 74.5  | 75.9  | 76.7  | 79.3  | 81.0  | 84.8  | 84.9  | 85.4  | 86.0  | 85.1  | 80.9  | 80.9  | 80.9  | 81.4  | 84.6  | 86.7  | 88.9  | 91.5  |
| T-CT 27. DEG F         | 76.2  | 76.5  | 79.5  | 82.1  | 83.8  | 87.8  | 87.4  | 87.7  | 88.0  | 87.4  | 82.2  | 82.2  | 82.2  | 82.2  | 84.6  | 86.7  | 88.9  | 91.5  |
| (270. DEG N)           | 84.2  | 83.3  | 86.2  | 89.6  | 93.3  | 98.6  | 97.6  | 97.0  | 98.3  | 98.7  | 88.9  | 88.9  | 88.9  | 88.9  | 91.5  | 93.4  | 93.4  | 93.4  |
| NACT 0.69 CM/MS        | 84.2  | 83.0  | 85.2  | 88.4  | 91.1  | 96.1  | 95.4  | 94.7  | 95.6  | 93.5  | 86.7  | 86.7  | 86.7  | 86.7  | 88.9  | 91.5  | 93.4  | 93.4  |
| (-60009) KC/M3         | 78.5  | 80.0  | 82.4  | 85.7  | 88.8  | 92.3  | 91.6  | 90.7  | 91.5  | 87.4  | 82.4  | 82.4  | 82.4  | 82.4  | 84.6  | 86.7  | 88.9  | 91.5  |
| NFA 6974. RPM          | 70.2  | 80.8  | 83.9  | 86.7  | 89.8  | 93.3  | 93.1  | 93.6  | 95.5  | 90.2  | 85.8  | 85.8  | 85.8  | 85.8  | 88.9  | 91.5  | 93.4  | 93.4  |
| ( 730. RAD/SEC)        | 77.4  | 79.2  | 82.3  | 85.6  | 88.2  | 92.0  | 92.7  | 93.0  | 93.7  | 89.3  | 84.2  | 84.2  | 84.2  | 84.2  | 86.7  | 88.9  | 91.5  | 93.4  |
| NFK 7120. RPM          | 76.5  | 78.4  | 81.5  | 85.1  | 87.7  | 92.4  | 91.6  | 92.4  | 92.8  | 88.9  | 82.6  | 82.6  | 82.6  | 82.6  | 84.6  | 86.7  | 88.9  | 91.5  |
| ( 745. RAD/SEC)        | 74.3  | 76.1  | 79.1  | 83.1  | 85.5  | 89.5  | 88.6  | 88.6  | 89.4  | 87.2  | 80.9  | 80.9  | 80.9  | 80.9  | 82.1  | 84.6  | 86.7  | 88.9  |
| NFD 8623. RPM          | 72.3  | 75.2  | 77.8  | 82.0  | 84.3  | 88.9  | 89.2  | 91.8  | 91.3  | 86.5  | 80.4  | 80.4  | 80.4  | 80.4  | 82.1  | 84.6  | 86.7  | 88.9  |
| ( 924. RAD/SEC)        | 72.2  | 74.3  | 76.9  | 81.0  | 83.7  | 88.0  | 88.6  | 90.9  | 91.8  | 86.7  | 80.7  | 80.7  | 80.7  | 80.7  | 82.1  | 84.6  | 86.7  | 88.9  |
| NO. OF PLACES IS 12500 | 71.4  | 73.3  | 76.3  | 81.2  | 84.2  | 87.8  | 88.3  | 91.3  | 91.5  | 86.1  | 80.8  | 80.8  | 80.8  | 80.8  | 82.1  | 84.6  | 86.7  | 88.9  |
| FAN TIP SPEED          | 67.1  | 71.2  | 74.3  | 78.8  | 81.6  | 85.9  | 86.8  | 88.8  | 89.3  | 84.6  | 78.4  | 78.4  | 78.4  | 78.4  | 80.9  | 82.1  | 84.6  | 86.7  |
| 609. FT/SEC            | 64.2  | 70.4  | 73.6  | 77.6  | 81.3  | 85.4  | 86.6  | 89.3  | 89.1  | 84.6  | 78.3  | 78.3  | 78.3  | 78.3  | 80.9  | 82.1  | 84.6  | 86.7  |
|                        | 66.5  | 68.4  | 72.3  | 76.9  | 79.1  | 84.8  | 85.3  | 87.4  | 88.7  | 83.1  | 76.7  | 76.7  | 76.7  | 76.7  | 78.3  | 80.9  | 82.1  | 84.6  |
|                        | 65.3  | 67.5  | 70.8  | 75.7  | 78.1  | 83.4  | 83.8  | 85.9  | 86.6  | 81.8  | 73.6  | 73.6  | 73.6  | 73.6  | 75.2  | 77.8  | 80.4  | 82.1  |
|                        | 62.7  | 64.6  | 67.3  | 71.9  | 74.0  | 80.0  | 81.2  | 81.4  | 82.4  | 78.1  | 68.1  | 68.1  | 68.1  | 68.1  | 70.7  | 73.3  | 75.9  | 78.5  |
|                        | 62.4  | 61.6  | 64.9  | 67.5  | 69.2  | 75.4  | 76.5  | 76.5  | 77.4  | 74.3  | 63.4  | 63.4  | 63.4  | 63.4  | 65.0  | 67.6  | 70.2  | 72.8  |
|                        | 62.8  | 60.6  | 62.9  | 62.2  | 63.8  | 68.1  | 69.5  | 68.8  | 69.6  | 67.4  | 59.8  | 59.8  | 59.8  | 59.8  | 61.4  | 64.0  | 66.6  | 69.2  |
|                        | 64.6  | 64.1  | 65.5  | 62.8  | 63.8  | 65.7  | 64.4  | 63.6  | 63.1  | 62.9  | 61.5  | 61.5  | 61.5  | 61.5  | 63.1  | 65.7  | 68.3  | 70.9  |
| OVERALL MEASURED       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| OVERALL CALCULATED     | 91.3  | 91.3  | 93.6  | 96.7  | 99.4  | 103.9 | 103.5 | 104.8 | 104.9 | 101.8 | 97.8  | 97.8  | 97.8  | 97.8  | 99.4  | 101.0 | 102.6 | 104.2 |
| PNDB                   | 103.8 | 104.8 | 106.6 | 109.3 | 112.0 | 115.9 | 115.5 | 116.8 | 117.3 | 114.2 | 108.4 | 108.4 | 108.4 | 108.4 | 110.0 | 111.6 | 113.2 | 114.8 |

FREQ. (0.02, 0.05, 0.1, 0.2, 0.5, 1.0, 2.0, 5.0, 10.0, 20.0, 50.0, 100.0, 200.0, 500.0, 1000.0, 2000.0, 5000.0, 10000.0)

|                    | 50    | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 0    | 0 | 0 | 0 | 0 | 0 |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|
| SIDELINE 700. FT.  | 63    |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| ( 03.06 F )        | 100   | 43.0 | 50.4 | 52.1 | 50.5 | 50.3 | 51.7 | 48.7 | 49.1 | 51.0 | 53.5 | 53.3 |   |   |   |   |   |
| VEHICLE            | 125   | 49.5 | 56.3 | 57.5 | 55.7 | 55.2 | 55.1 | 51.0 | 53.5 | 53.2 | 53.2 | 52.4 |   |   |   |   |   |
| CGI.FIG            | 160   | 47.2 | 49.0 | 49.0 | 50.6 | 50.7 | 52.0 | 52.5 | 53.4 | 54.3 | 54.3 | 52.9 |   |   |   |   |   |
| LPC SCHNECTARY     | 200   | 46.3 | 47.4 | 48.0 | 50.5 | 51.0 | 55.2 | 53.7 | 54.0 | 55.0 | 55.0 | 53.0 |   |   |   |   |   |
| DATE 2/3/75        | 250   | 49.2 | 51.1 | 52.7 | 53.2 | 54.2 | 50.1 | 55.0 | 55.0 | 55.4 | 54.7 | 52.2 |   |   |   |   |   |
| RUN 74/10          | 315   | 51.1 | 53.2 | 53.9 | 54.6 | 54.7 | 57.5 | 55.7 | 55.1 | 55.0 | 54.0 | 51.3 |   |   |   |   |   |
| TAPE               | 400   | 49.6 | 50.9 | 52.1 | 53.5 | 54.3 | 50.7 | 55.4 | 55.0 | 54.1 | 53.7 | 50.0 |   |   |   |   |   |
| BAR 30.1 HG        | 500   | 47.7 | 49.5 | 51.0 | 52.2 | 53.0 | 50.7 | 56.1 | 55.7 | 55.3 | 53.5 | 49.0 |   |   |   |   |   |
| (01717. H/M2)      | 630   | 51.1 | 52.0 | 53.9 | 50.1 | 57.2 | 60.0 | 60.0 | 50.0 | 50.1 | 55.1 | 49.0 |   |   |   |   |   |
| TAPD 30. DEG F     | 800   | 50.0 | 52.3 | 53.5 | 55.0 | 57.1 | 60.5 | 59.6 | 50.2 | 50.2 | 55.4 | 40.0 |   |   |   |   |   |
| ( 270. DEG K )     | 1000  | 49.0 | 52.2 | 53.7 | 56.7 | 58.5 | 62.1 | 61.7 | 61.3 | 60.3 | 57.0 | 40.4 |   |   |   |   |   |
| TACT 27. DEG F     | 1250  | 51.2 | 52.6 | 54.3 | 50.3 | 61.1 | 65.0 | 64.1 | 63.4 | 62.2 | 50.0 | 49.4 |   |   |   |   |   |
| ( 270. DEG K )     | 1600  | 61.0 | 50.2 | 62.9 | 60.7 | 70.5 | 75.0 | 74.1 | 72.5 | 72.2 | 60.0 | 50.7 |   |   |   |   |   |
| NACT 0.00 CM/M3    | 2000  | 50.0 | 50.7 | 61.7 | 65.3 | 68.1 | 72.0 | 71.7 | 70.0 | 69.2 | 64.4 | 52.9 |   |   |   |   |   |
| ( 0.00009 KG/M3 )  | 2500  | 52.0 | 55.5 | 58.7 | 62.4 | 65.7 | 69.0 | 67.7 | 65.7 | 64.0 | 50.1 | 40.2 |   |   |   |   |   |
| MFA 0074. RPM      | 3150  | 53.2 | 55.9 | 59.9 | 63.1 | 66.4 | 69.7 | 68.9 | 66.4 | 65.5 | 60.3 | 50.0 |   |   |   |   |   |
| ( 730. RHP/SEC )   | 4000  | 50.0 | 53.9 | 57.0 | 61.6 | 64.4 | 67.9 | 66.1 | 67.2 | 66.1 | 50.0 | 40.3 |   |   |   |   |   |
| MPK 7120. RPM      | 5000  | 49.7 | 52.0 | 56.7 | 60.9 | 63.6 | 66.1 | 66.7 | 64.4 | 64.0 | 57.5 | 45.0 |   |   |   |   |   |
| ( 745. RHP/SEC )   | 6300  | 46.5 | 49.7 | 53.6 | 58.2 | 60.7 | 64.0 | 64.4 | 64.5 | 63.1 | 54.0 | 42.5 |   |   |   |   |   |
| MFD 0023. RPM      | 8000  | 43.1 | 47.5 | 51.2 | 56.0 | 58.5 | 62.0 | 62.4 | 63.6 | 60.0 | 52.3 | 39.2 |   |   |   |   |   |
| ( 024. RHP/SEC )   | 10000 | 41.1 | 45.0 | 48.7 | 54.4 | 56.4 | 60.0 | 60.2 | 60.0 | 59.2 | 40.0 | 35.0 |   |   |   |   |   |
| NO. OF BLADES IS   | 12000 | 37.5 | 41.5 | 45.7 | 51.5 | 54.7 | 57.9 | 57.5 | 58.7 | 58.0 | 40.3 | 30.1 |   |   |   |   |   |
| FAH TIP SPEED      | 16000 | 30.6 | 35.2 | 40.0 | 45.2 | 48.4 | 53.4 | 52.1 | 51.0 | 48.0 | 37.4 | 18.1 |   |   |   |   |   |
| 600. FT/SEC        | 20000 | 27.0 | 30.0 | 34.3 | 40.4 | 43.4 | 47.0 | 46.0 | 46.7 | 42.0 | 30.0 | 8.0  |   |   |   |   |   |
|                    | 25000 | 13.2 | 10.2 | 15.7 | 21.8 | 24.4 | 29.7 | 28.2 | 28.7 | 21.0 | 15.3 |      |   |   |   |   |   |
|                    | 31500 |      | 0.9  | 13.7 | 20.5 | 23.0 | 28.1 | 26.0 | 23.4 | 18.0 |      |      |   |   |   |   |   |
|                    | 40000 |      |      |      | 1.0  | 4.7  | 0.0  | 7.4  | 1.7  |      |      |      |   |   |   |   |   |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |
| OVERALL CALCULATED |       | 65.0 | 66.0 | 68.7 | 73.0 | 78.0 | 80.1 | 70.0 | 70.0 | 77.2 | 72.2 | 64.1 |   |   |   |   |   |
| PHD                |       | 78.0 | 79.2 | 82.0 | 89.0 | 89.0 | 92.0 | 91.4 | 90.7 | 90.2 | 84.0 | 74.0 |   |   |   |   |   |



NOISE SOUND PRESSURE LEVELS (SP, DFC, P, 70 PERCENT DEL, MIN, MAX)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 154    | 0    | 0  | 0  | 0  | 0  | 0  |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|
| PROG.               | (0.02) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0    | 0  | 0  | 0  | 0  | 0  |
| SIDELINE 200. FT.   | 50     | 53     | 56     | 59     | 62     | 65     | 68     | 71     | 74     | 77     | 80     | 83   | 86 | 89 | 92 | 95 | 98 |
| VEHICLE 1 40.00 MI  | 100    | 44.4   | 48.7   | 50.3   | 51.0   | 51.3   | 53.9   | 51.9   | 51.3   | 53.8   | 56.8   | 57.1 |    |    |    |    |    |
| VEHICLE 2 40.00 MI  | 125    | 51.5   | 54.8   | 55.2   | 54.2   | 51.7   | 54.8   | 56.1   | 56.5   | 56.2   | 56.7   | 56.1 |    |    |    |    |    |
| CCAFIC 75-02        | 160    | 49.9   | 52.0   | 52.4   | 53.1   | 53.2   | 55.0   | 55.4   | 55.9   | 57.3   | 57.5   | 59.0 |    |    |    |    |    |
| LCC SCHELECTABY     | 200    | 48.6   | 49.0   | 51.8   | 52.5   | 54.3   | 54.4   | 56.4   | 57.3   | 58.2   | 58.9   | 57.2 |    |    |    |    |    |
| DATE 2/3/75         | 250    | 53.0   | 54.8   | 57.0   | 57.9   | 58.5   | 60.0   | 59.8   | 60.2   | 60.1   | 59.5   | 58.5 |    |    |    |    |    |
| RLA 7/11            | 310    | 53.9   | 55.7   | 56.7   | 57.1   | 57.7   | 60.3   | 54.5   | 58.1   | 58.0   | 57.0   | 54.3 |    |    |    |    |    |
| YAPE                | 400    | 52.1   | 53.6   | 54.6   | 56.0   | 56.3   | 59.2   | 57.9   | 57.5   | 57.4   | 56.7   | 53.0 |    |    |    |    |    |
| BAR 30.1 MG         | 500    | 53.0   | 51.5   | 53.2   | 54.7   | 56.3   | 59.4   | 58.0   | 58.7   | 58.3   | 56.5   | 52.3 |    |    |    |    |    |
| (01717. H/P.2)      | 630    | 52.9   | 54.2   | 56.2   | 54.4   | 59.7   | 62.0   | 62.5   | 61.1   | 60.4   | 57.9   | 52.3 |    |    |    |    |    |
| YAMB 38. DEC F      | 800    | 52.3   | 54.6   | 56.3   | 54.5   | 59.6   | 63.0   | 61.0   | 61.7   | 60.5   | 57.4   | 51.3 |    |    |    |    |    |
| 1276. DEC F1        | 1000   | 52.1   | 54.2   | 57.7   | 57.0   | 59.7   | 64.1   | 63.5   | 63.1   | 62.1   | 58.8   | 50.7 |    |    |    |    |    |
| 1270. DEC F         | 1250   | 53.2   | 55.1   | 58.3   | 61.1   | 62.6   | 64.5   | 65.0   | 64.4   | 63.4   | 58.8   | 50.4 |    |    |    |    |    |
| 1270. DEC K1        | 1600   | 59.3   | 61.2   | 63.9   | 64.5   | 69.6   | 71.6   | 68.0   | 67.7   | 65.7   | 58.7   | 50.4 |    |    |    |    |    |
| MACT 8.00 CM/M3     | 2000   | 72.0   | 74.2   | 77.4   | 78.6   | 82.8   | 83.7   | 77.7   | 74.8   | 71.7   | 65.9   | 58.7 |    |    |    |    |    |
| (1.00000 KG/M3)     | 2500   | 57.6   | 59.8   | 62.7   | 66.2   | 69.2   | 72.7   | 70.2   | 68.2   | 67.0   | 59.0   | 50.4 |    |    |    |    |    |
| MFA 7740. RPM       | 3100   | 54.7   | 57.9   | 61.6   | 65.4   | 68.2   | 71.4   | 68.6   | 68.4   | 67.5   | 59.1   | 49.7 |    |    |    |    |    |
| 1 011. RA2/SEC      | 4000   | 58.3   | 59.4   | 64.0   | 66.9   | 71.7   | 73.2   | 72.3   | 74.0   | 69.8   | 62.3   | 52.0 |    |    |    |    |    |
| MFB 7900. RPM       | 5000   | 51.4   | 54.0   | 58.7   | 63.1   | 65.9   | 69.6   | 69.0   | 68.6   | 66.4   | 57.8   | 48.6 |    |    |    |    |    |
| 1 020. RA3/SEC      | 6300   | 50.5   | 54.0   | 57.6   | 62.4   | 64.7   | 69.3   | 69.4   | 68.0   | 64.9   | 57.4   | 45.7 |    |    |    |    |    |
| MFB 8020. RPM       | 8000   | 48.4   | 50.8   | 54.4   | 59.0   | 61.7   | 65.5   | 65.9   | 65.0   | 63.6   | 54.3   | 42.2 |    |    |    |    |    |
| 1 024. RA4/SEC      | 10000  | 44.6   | 45.5   | 53.4   | 58.6   | 61.5   | 64.2   | 64.2   | 64.0   | 62.2   | 50.8   | 38.3 |    |    |    |    |    |
| NO. OF BLADES 15    | 12500  | 41.5   | 45.2   | 50.2   | 55.2   | 58.2   | 62.2   | 62.5   | 61.4   | 58.7   | 47.5   | 38.6 |    |    |    |    |    |
| FAN TIP SPEED 16000 | 16000  | 34.3   | 39.2   | 44.0   | 48.0   | 52.4   | 56.1   | 55.9   | 55.6   | 51.6   | 38.1   | 28.8 |    |    |    |    |    |
| 670. FT/SEC         | 20000  | 27.3   | 32.2   | 36.8   | 41.0   | 45.4   | 51.5   | 51.1   | 50.7   | 46.0   | 31.0   | 20.0 |    |    |    |    |    |
|                     | 25000  | 17.2   | 24.2   | 28.7   | 32.3   | 36.4   | 43.7   | 42.6   | 41.9   | 35.6   | 19.3   |      |    |    |    |    |    |
|                     | 31500  | 2.9    | 11.4   | 16.2   | 25.0   | 28.1   | 32.3   | 39.7   | 27.4   | 19.6   |        |      |    |    |    |    |    |
|                     | 40000  |        |        |        | 6.0    | 6.7    | 13.6   | 11.2   | 8.7    |        |        |      |    |    |    |    |    |
|                     | 50000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
|                     | 63000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
|                     | 80000  |        |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |
| OVERALL CALCULATED  |        | 73.1   | 78.3   | 78.4   | 86.0   | 84.0   | 85.4   | 81.6   | 88.2   | 78.1   | 72.3   | 66.6 |    |    |    |    |    |
| PROG                |        | 66.4   | 66.6   | 61.8   | 66.4   | 67.2   | 69.0   | 68.2   | 64.6   | 61.6   | 60.4   | 57.1 |    |    |    |    |    |



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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PRNC. DATE - MONTH 4 DAY 9 HR. 15.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                            | 53.     | 62.     | 71.     | 81.     | 91.     | 101.    | 111.    | 122.    | 133.    | 145.    | 156.    | 0.    | 0.  | 0.  | 0.  | 0.  | 0.  | PAL   |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|-----|-----|-----|-----|-----|-------|
| FREQ.                      | (1.021) | (1.028) | (1.041) | (1.054) | (1.068) | (1.083) | (1.099) | (1.115) | (1.133) | (1.151) | (1.171) | 10.   | 10. | 10. | 10. | 10. | 10. | Pal   |
| RADIAL 17. FT.             | 50      |         |         |         |         |         |         |         |         |         |         |       |     |     |     |     |     |       |
| ( 5. M)                    | 63      |         |         |         |         |         |         |         |         |         |         |       |     |     |     |     |     |       |
| VEHICLE R-45               | 80      |         |         |         |         |         |         |         |         |         |         |       |     |     |     |     |     |       |
| CONFID 75-65               | 150     | 68.3    | 71.6    | 72.9    | 72.9    | 73.4    | 75.9    | 73.9    | 74.7    | 78.5    | 83.1    | 87.4  |     |     |     |     |     | 112.3 |
| LCC SCHENECTADY            | 125     | 75.3    | 77.4    | 77.4    | 76.2    | 76.1    | 78.2    | 78.1    | 79.9    | 80.7    | 83.1    | 86.4  |     |     |     |     |     | 113.7 |
| DATE 2/3/75                | 160     | 73.5    | 74.4    | 74.4    | 75.4    | 74.9    | 77.2    | 78.6    | 79.7    | 81.7    | 84.6    | 87.1  |     |     |     |     |     | 113.9 |
| RUN 74/12                  | 200     | 73.0    | 72.9    | 73.6    | 74.4    | 75.9    | 80.2    | 79.4    | 80.7    | 83.0    | 85.3    | 87.1  |     |     |     |     |     | 114.6 |
| TAFE                       | 250     | 77.0    | 77.4    | 79.1    | 79.4    | 80.1    | 82.4    | 82.4    | 83.1    | 84.5    | 86.3    | 87.6  |     |     |     |     |     | 116.6 |
| BAR 30.1 HG                | 315     | 78.1    | 78.4    | 78.9    | 79.2    | 79.4    | 82.2    | 81.1    | 81.4    | 83.0    | 84.9    | 86.1  |     |     |     |     |     | 115.6 |
| (31717. N/M2)              | 400     | 74.4    | 77.1    | 77.2    | 78.2    | 78.7    | 81.4    | 81.1    | 81.4    | 83.0    | 84.4    | 85.6  |     |     |     |     |     | 115.1 |
| TAMB 38. DEG F             | 500     | 74.4    | 74.7    | 75.7    | 77.0    | 78.4    | 82.0    | 81.9    | 82.4    | 83.8    | 84.6    | 84.1  |     |     |     |     |     | 115.1 |
| (276. DEG K)               | 630     | 77.4    | 77.4    | 79.4    | 80.7    | 82.2    | 85.0    | 84.6    | 85.2    | 85.5    | 85.5    | 84.2  |     |     |     |     |     | 117.5 |
| TAFY 27. DEG F             | 800     | 77.9    | 78.4    | 79.4    | 80.5    | 81.9    | 85.5    | 85.4    | 86.2    | 86.5    | 85.6    | 83.9  |     |     |     |     |     | 118.0 |
| (270. DEG K)               | 1000    | 78.7    | 77.7    | 78.7    | 81.3    | 82.5    | 86.5    | 86.9    | 87.4    | 87.8    | 88.4    | 83.2  |     |     |     |     |     | 118.9 |
| MACT 0.69 GM/MS            | 1250    | 74.2    | 79.0    | 81.7    | 84.3    | 85.3    | 89.0    | 89.4    | 88.7    | 89.8    | 87.4    | 83.4  |     |     |     |     |     | 121.1 |
| (20069 KG/MS)              | 1600    | 84.2    | 85.5    | 87.5    | 89.4    | 92.3    | 94.8    | 92.6    | 92.0    | 92.3    | 88.7    | 83.9  |     |     |     |     |     | 125.2 |
| NFA 7746. RPM              | 2000    | 97.7    | 98.8    | 101.0   | 102.4   | 106.1   | 107.1   | 101.4   | 98.7    | 97.8    | 95.2    | 90.2  |     |     |     |     |     | 130.4 |
| ( 811. RAD/SEC)            | 2500    | 83.2    | 84.8    | 86.4    | 89.4    | 92.1    | 96.1    | 94.1    | 93.2    | 95.0    | 88.7    | 84.9  |     |     |     |     |     | 126.2 |
| NFK 7908. RPM              | 3150    | 81.7    | 83.0    | 85.9    | 88.9    | 91.6    | 95.5    | 94.3    | 93.9    | 95.3    | 89.7    | 84.8  |     |     |     |     |     | 128.2 |
| ( 828. RAD/SEC)            | 4000    | 85.4    | 85.4    | 89.8    | 94.1    | 99.7    | 97.2    | 97.4    | 100.5   | 97.4    | 92.8    | 88.7  |     |     |     |     |     | 129.9 |
| NFD 8823. RPM              | 5000    | 79.0    | 80.9    | 84.0    | 87.3    | 89.7    | 93.6    | 94.1    | 94.9    | 94.8    | 89.3    | 83.4  |     |     |     |     |     | 125.8 |
| ( 924. RAD/SEC)            | 6300    | 78.5    | 80.4    | 83.6    | 87.6    | 89.7    | 94.5    | 94.8    | 96.1    | 96.0    | 89.7    | 84.7  |     |     |     |     |     | 126.5 |
| NO. OF BLADES 15           | 8000    | 75.3    | 78.4    | 81.0    | 85.2    | 87.3    | 92.4    | 92.5    | 94.0    | 94.0    | 88.5    | 83.2  |     |     |     |     |     | 124.5 |
| FAIR TIP SPEED 676. FT/SEC | 10000   | 76.4    | 78.1    | 81.9    | 85.7    | 89.2    | 92.6    | 93.1    | 94.4    | 95.3    | 88.9    | 84.0  |     |     |     |     |     | 125.3 |
|                            | 12500   | 75.7    | 77.1    | 81.0    | 85.2    | 87.9    | 91.8    | 93.3    | 94.0    | 94.5    | 86.6    | 83.0  |     |     |     |     |     | 125.8 |
|                            | 16000   | 72.6    | 75.7    | 78.8    | 82.3    | 85.3    | 89.9    | 91.0    | 92.8    | 92.8    | 86.9    | 81.2  |     |     |     |     |     | 123.5 |
|                            | 20000   | 72.5    | 74.9    | 78.9    | 82.9    | 85.3    | 89.6    | 91.4    | 93.8    | 93.8    | 87.8    | 81.3  |     |     |     |     |     | 124.6 |
|                            | 25000   | 70.7    | 73.2    | 77.0    | 81.1    | 83.8    | 88.7    | 90.3    | 92.9    | 93.2    | 87.6    | 80.4  |     |     |     |     |     | 124.4 |
|                            | 31500   | 69.5    | 72.0    | 75.8    | 79.7    | 82.6    | 87.4    | 88.3    | 90.4    | 90.1    | 85.3    | 77.3  |     |     |     |     |     | 123.8 |
|                            | 40000   | 65.9    | 68.6    | 72.1    | 75.9    | 79.0    | 83.5    | 84.7    | 86.8    | 86.9    | 81.9    | 71.1  |     |     |     |     |     | 120.6 |
|                            | 50000   | 63.9    | 64.1    | 68.4    | 70.8    | 74.2    | 79.4    | 80.7    | 80.7    | 81.9    | 77.8    | 65.9  |     |     |     |     |     | 117.8 |
|                            | 63000   | 63.5    | 60.6    | 63.9    | 64.2    | 67.1    | 72.1    | 74.0    | 73.5    | 74.4    | 70.7    | 61.3  |     |     |     |     |     | 113.5 |
|                            | 80000   | 66.8    | 63.1    | 65.5    | 62.8    | 63.0    | 66.2    | 68.4    | 66.3    | 67.4    | 64.9    | 61.5  |     |     |     |     |     | 112.2 |
| OVERALL MEASURED           |         |         |         |         |         |         |         |         |         |         |         |       |     |     |     |     |     |       |
| OVERALL CALCULATED         |         | 98.9    | 99.9    | 102.2   | 104.2   | 107.4   | 109.2   | 106.6   | 107.0   | 106.8   | 102.5   | 99.5  |     |     |     |     |     | 149.8 |
| PND8                       |         | 112.3   | 113.3   | 115.6   | 117.6   | 120.5   | 122.5   | 119.3   | 120.4   | 119.2   | 115.3   | 111.9 |     |     |     |     |     |       |

| FREQ.                     | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.   | 0.   | 0.   | 0.   | 0.   | 0.    |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|-------|
|                           | (0.92) | (1.06) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 1(0. | 1(0. | 1(0. | 1(0. | 1(0.) |
| SIDELINE 200. FT.         | 50     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |
| ( 60.96 M)                | 63     |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |
| VEHICLE 9-55              | 100    | 44.6   | 48.9   | 50.8   | 51.2   | 51.8   | 54.2   | 51.7   | 51.6   | 54.1   | 56.5   | 57.3 |      |      |      |      |       |
| CONFIC 79-8R              | 125    | 51.5   | 54.6   | 55.2   | 54.4   | 54.5   | 56.3   | 55.8   | 56.8   | 56.2   | 56.4   | 56.1 |      |      |      |      |       |
| LCC SCHEMECTARY           | 150    | 49.7   | 51.3   | 52.2   | 53.6   | 53.2   | 55.3   | 56.3   | 56.4   | 57.1   | 57.8   | 56.6 |      |      |      |      |       |
| DATE 2/3/75               | 200    | 49.1   | 49.9   | 51.3   | 52.5   | 54.1   | 58.2   | 56.9   | 57.3   | 58.2   | 58.4   | 56.4 |      |      |      |      |       |
| RUN 74/12                 | 250    | 53.0   | 54.3   | 56.7   | 57.4   | 58.2   | 60.4   | 59.8   | 59.7   | 59.6   | 59.2   | 56.7 |      |      |      |      |       |
| TYPE                      | 315    | 53.9   | 55.2   | 56.4   | 57.1   | 57.4   | 60.0   | 58.5   | 57.9   | 58.0   | 57.6   | 55.0 |      |      |      |      |       |
| PIR 30.1 HG               | 450    | 52.1   | 53.9   | 54.6   | 54.0   | 56.8   | 59.2   | 58.4   | 57.6   | 57.9   | 58.9   | 54.3 |      |      |      |      |       |
| 717. H/M2                 | 500    | 50.0   | 51.3   | 53.0   | 54.7   | 56.3   | 59.7   | 59.1   | 58.7   | 58.5   | 57.0   | 52.6 |      |      |      |      |       |
| 1 38. DEG F               | 630    | 52.9   | 54.0   | 56.7   | 58.4   | 60.9   | 62.6   | 61.7   | 61.3   | 60.1   | 57.9   | 52.3 |      |      |      |      |       |
| (276. DEG K)              | 800    | 53.3   | 54.8   | 56.5   | 58.3   | 59.6   | 63.0   | 62.3   | 62.2   | 61.0   | 57.7   | 51.8 |      |      |      |      |       |
| T-ET 27. DEG F            | 1000   | 51.9   | 53.9   | 55.7   | 58.7   | 60.0   | 63.9   | 63.7   | 63.3   | 62.1   | 54.2   | 50.7 |      |      |      |      |       |
| (270. DEG K)              | 1250   | 53.2   | 55.1   | 58.5   | 61.6   | 63.1   | 67.0   | 66.1   | 64.4   | 63.9   | 59.2   | 50.6 |      |      |      |      |       |
| MACT 0.69 CM/M3           | 1600   | 59.3   | 61.4   | 64.1   | 66.5   | 69.5   | 71.9   | 69.1   | 67.5   | 66.2   | 60.0   | 50.7 |      |      |      |      |       |
| (1.00069 KG/M3)           | 2000   | 72.3   | 74.5   | 77.4   | 79.3   | 83.1   | 83.9   | 77.7   | 74.0   | 71.4   | 66.1   | 56.4 |      |      |      |      |       |
| NFA 7746. RPM             | 2500   | 57.6   | 60.3   | 62.7   | 66.2   | 68.9   | 72.7   | 70.2   | 68.2   | 68.4   | 59.3   | 50.7 |      |      |      |      |       |
| ( 811. RA-/SEC)           | 3150   | 55.7   | 58.2   | 61.9   | 65.4   | 68.2   | 71.9   | 70.1   | 68.6   | 68.3   | 59.8   | 49.9 |      |      |      |      |       |
| NFK 7908. RPM             | 4000   | 55.4   | 60.1   | 63.3   | 70.1   | 71.9   | 73.2   | 72.8   | 74.7   | 69.8   | 62.3   | 52.4 |      |      |      |      |       |
| ( 828. RA-/SEC)           | 5000   | 52.2   | 55.3   | 59.2   | 63.1   | 63.8   | 69.4   | 69.2   | 68.9   | 66.9   | 58.3   | 46.8 |      |      |      |      |       |
| NFB 8823. RPM             | 6300   | 50.8   | 54.0   | 58.1   | 62.7   | 63.0   | 69.6   | 69.2   | 69.3   | 67.1   | 57.4   | 46.2 |      |      |      |      |       |
| ( 924. RA-/SEC)           | 8000   | 46.1   | 50.8   | 54.4   | 59.2   | 61.5   | 66.3   | 65.7   | 65.9   | 63.6   | 54.3   | 41.9 |      |      |      |      |       |
| NO. OF BLADES 15          | 10000  | 45.3   | 48.7   | 53.7   | 58.1   | 61.9   | 64.9   | 64.7   | 64.4   | 62.7   | 52.0   | 38.8 |      |      |      |      |       |
| FAN TIP SPEED 676. FT/SEC | 12500  | 41.8   | 45.2   | 50.5   | 55.5   | 58.4   | 61.9   | 62.5   | 61.4   | 58.9   | 47.8   | 32.1 |      |      |      |      |       |
| 20000                     | 34.1   | 39.7   | 44.5   | 48.9   | 52.2   | 56.4   | 56.4   | 55.9   | 52.1   | 39.8   | 28.8   |      |      |      |      |      |       |
| 25000                     | 27.8   | 33.4   | 39.5   | 44.6   | 47.4   | 51.3   | 51.8   | 51.2   | 46.5   | 32.1   | 8.6    |      |      |      |      |      |       |
| 31500                     | 17.4   | 24.0   | 30.4   | 36.8   | 39.2   | 43.5   | 43.2   | 42.2   | 36.4   | 19.8   |        |      |      |      |      |      |       |
| 40000                     | 3.4    | 11.4   | 18.7   | 24.5   | 28.1   | 32.1   | 36.5   | 27.9   | 19.4   |        |        |      |      |      |      |      |       |
| 50000                     |        |        |        | 5.8    | 9.7    | 13.1   | 18.9   | 6.7    |        |        |        |      |      |      |      |      |       |
| 63000                     |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |
| 80000                     |        |        |        |        |        |        |        |        |        |        |        |      |      |      |      |      |       |
| OVERALL CALCULATED        | 73.4   | 75.5   | 78.5   | 80.6   | 84.2   | 85.6   | 81.7   | 80.6   | 78.3   | 72.4   | 66.7   |      |      |      |      |      |       |
| PNDP                      | 86.6   | 89.8   | 91.9   | 94.3   | 97.4   | 99.2   | 95.3   | 94.9   | 91.9   | 85.6   | 77.1   |      |      |      |      |      |       |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY

PRCC. DATE - MONTH 4 DAY 9 MR. 18.1

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.               | 0° 10° 20° 30° 40° 50° 60° 70° 80° 90° 100° 110° 120° |        |        |        |        |        |        |        |        |        |        |        |        |        | PUL |        |
|---------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|--------|
|                     | (0.92)  | (1.03) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.94) | (3.16) | (3.39) |     | (3.63) |
| 50                  |   |        |        |        |        |        |        |        |        |        |        |        |        |        |     |        |
| 63                  |   |        |        |        |        |        |        |        |        |        |        |        |        |        |     |        |
| 80                  |   |        |        |        |        |        |        |        |        |        |        |        |        |        |     |        |
| RADIAL 17. FT.      | 100   | 72.0   | 74.9   | 77.7   | 79.2   | 79.0   | 78.9   | 73.8   | 67.0   | 72.5   | 75.0   | 76.7   |        |        |     | 110.0  |
| VEHICLE 5. M)       | 125   | 67.2   | 67.2   | 71.4   | 67.7   | 70.5   | 69.6   | 67.0   | 71.2   | 71.5   | 71.3   | 74.4   |        |        |     | 104.3  |
| CONFIG R-59         | 160   | 64.2   | 64.9   | 65.4   | 66.5   | 65.3   | 68.4   | 68.3   | 69.5   | 71.2   | 72.0   | 74.9   |        |        |     | 103.2  |
| LOC SCHENECTADY     | 200   | 63.5   | 63.9   | 64.9   | 66.5   | 67.0   | 70.4   | 69.5   | 71.0   | 72.7   | 74.0   | 75.9   |        |        |     | 104.3  |
| DATE 2/3/75         | 250   | 66.2   | 67.2   | 65.6   | 69.7   | 69.3   | 71.9   | 71.0   | 71.7   | 72.9   | 74.0   | 74.6   |        |        |     | 105.1  |
| RUN 74/13           | 315   | 68.7   | 70.4   | 70.4   | 70.7   | 73.5   | 73.7   | 72.0   | 72.5   | 73.5   | 74.3   | 74.6   |        |        |     | 106.2  |
| TAPE                | 400   | 68.0   | 69.7   | 69.4   | 70.7   | 71.3   | 73.9   | 73.0   | 73.5   | 74.0   | 74.0   | 73.9   |        |        |     | 106.4  |
| BAR 30.1 HG         | 500   | 66.3   | 67.2   | 67.7   | 69.3   | 70.3   | 73.9   | 73.3   | 74.0   | 75.2   | 75.0   | 73.7   |        |        |     | 106.5  |
| (101717. 1/M2)      | 630   | 69.5   | 70.0   | 71.9   | 73.0   | 74.1   | 77.5   | 77.3   | 77.8   | 78.2   | 77.6   | 75.4   |        |        |     | 109.8  |
| TAPE 37. DEG F      | 800   | 73.1   | 71.2   | 71.7   | 73.0   | 74.4   | 78.2   | 78.1   | 78.8   | 79.5   | 78.6   | 75.0   |        |        |     | 110.0  |
| (276. DEG K)        | 1000  | 59.6   | 72.2   | 73.0   | 74.8   | 76.9   | 81.0   | 80.6   | 81.8   | 82.7   | 81.6   | 75.7   |        |        |     | 113.2  |
| TAPE 27. DEG F      | 1250  | 82.7   | 83.3   | 87.2   | 90.1   | 91.4   | 94.0   | 91.6   | 91.3   | 90.3   | 89.6   | 84.2   |        |        |     | 124.4  |
| (270. DEG K)        | 1600  | 77.7   | 78.3   | 81.2   | 83.9   | 85.2   | 88.3   | 86.8   | 87.1   | 86.3   | 85.9   | 79.7   |        |        |     | 119.3  |
| HACT 0.99 CM/MS     | 2000  | 73.2   | 74.4   | 76.0   | 78.2   | 80.5   | 84.3   | 84.3   | 83.8   | 84.3   | 83.4   | 78.3   |        |        |     | 115.9  |
| (.00099 KG/MS)      | 2500  | 75.5   | 76.9   | 73.3   | 81.9   | 84.8   | 89.6   | 90.3   | 91.1   | 90.6   | 89.2   | 82.5   |        |        |     | 121.6  |
| NFA 5424. RPM       | 3150  | 72.5   | 74.4   | 76.5   | 79.3   | 82.0   | 86.3   | 86.0   | 87.0   | 88.1   | 86.4   | 80.2   |        |        |     | 110.4  |
| ( 568. RA-/SEC)     | 4000  | 70.6   | 74.1   | 76.1   | 79.3   | 81.2   | 85.5   | 85.7   | 87.9   | 89.0   | 86.1   | 78.1   |        |        |     | 110.5  |
| NFK 5543. RPM       | 5000  | 69.1   | 70.8   | 73.1   | 76.7   | 79.2   | 83.2   | 83.4   | 84.8   | 86.4   | 83.5   | 76.0   |        |        |     | 110.0  |
| ( 580. RAD/SEC)     | 6300  | 67.3   | 69.5   | 71.9   | 75.0   | 78.3   | 82.9   | 82.8   | 85.1   | 86.3   | 82.9   | 75.6   |        |        |     | 113.0  |
| NPD 8223. RPM       | 8000  | 64.6   | 67.3   | 69.6   | 73.2   | 75.8   | 80.4   | 80.7   | 83.2   | 83.6   | 81.8   | 75.1   |        |        |     | 113.7  |
| ( 924. RAD/SEC)     | 10000   | 64.7   | 67.0   | 69.5   | 73.3   | 76.5   | 80.9   | 81.4   | 83.3   | 85.1   | 81.9   | 75.4   |        |        |     | 110.5  |
| NO. OF BLADES 15    | 12500   | 63.8   | 65.8   | 68.4   | 72.9   | 76.0   | 80.9   | 81.0   | 83.7   | 83.9   | 81.4   | 74.4   |        |        |     | 110.3  |
| FAN TIP SPEED 16000 | 16000   | 62.2   | 63.6   | 65.5   | 70.0   | 73.9   | 77.7   | 79.3   | 81.2   | 82.9   | 79.4   | 73.4   |        |        |     | 112.7  |
| 474. FT/SEC         | 20000   | 61.6   | 62.3   | 64.5   | 68.6   | 72.1   | 77.3   | 78.2   | 81.0   | 82.7   | 79.1   | 71.8   |        |        |     | 112.0  |
|                     | 25000   | 58.8   | 60.1   | 62.4   | 66.8   | 70.2   | 75.0   | 76.3   | 78.1   | 79.6   | 76.0   | 68.8   |        |        |     | 110.6  |
|                     | 31500   | 57.4   | 58.8   | 61.0   | 65.9   | 69.0   | 74.8   | 75.1   | 76.9   | 78.5   | 73.9   | 68.5   |        |        |     | 110.3  |
|                     | 40000   | 55.5   | 56.1   | 58.5   | 62.6   | 65.3   | 71.2   | 72.2   | 72.8   | 74.5   | 71.0   | 60.3   |        |        |     | 109.1  |
|                     | 50000   | 55.5   | 55.1   | 57.4   | 58.3   | 60.6   | 66.3   | 68.1   | 67.5   | 69.6   | 66.0   | 56.4   |        |        |     | 109.2  |
|                     | 63000   | 55.5   | 53.8   | 55.7   | 58.0   | 55.7   | 60.3   | 60.8   | 60.1   | 62.0   | 60.3   | 53.0   |        |        |     | 101.6  |
|                     | 80000   | 57.6   | 57.4   | 58.0   | 54.1   | 54.1   | 58.9   | 58.5   | 55.4   | 56.3   | 54.3   | 52.5   |        |        |     | 102.0  |
| OVERALL MEASURED    |   |        |        |        |        |        |        |        |        |        |        |        |        |        |     |        |
| OVERALL CALCULATED  |   | 66.4   | 67.6   | 68.4   | 63.1   | 64.8   | 68.2   | 67.3   | 68.2   | 68.5   | 66.6   | 61.3   |        |        |     | 130.0  |
| PND8                |   | 97.5   | 99.0   | 101.2  | 103.9  | 106.0  | 110.2  | 110.2  | 111.1  | 111.3  | 109.4  | 104.2  |        |        |     |        |

FREQ. (0.92)(1.08)(1.24)(1.41)(1.56)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(0. 110. 110. 110. 110. 110. 110. )

POWER

|                                 | 53.   | 62.  | 71.  | 81.  | 91.  | 101. | 111. | 122. | 133. | 145. | 156. | 0.   | 0. | 0. | 0. | 0. |
|---------------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|
| SIDELINE 200. FT. (60.96 M)     | 100   | 48.3 | 52.2 | 55.6 | 57.5 | 57.5 | 58.2 | 51.6 | 43.9 | 48.0 | 48.5 | 46.6 |    |    |    |    |
| VEHICLE R-55                    | 125   | 43.5 | 44.4 | 49.3 | 45.9 | 48.9 | 47.8 | 44.7 | 48.1 | 46.0 | 44.6 | 44.2 |    |    |    |    |
| CGI.FIG 75-68                   | 160   | 40.4 | 42.0 | 43.2 | 44.1 | 44.6 | 46.5 | 45.9 | 46.3 | 46.6 | 45.9 | 44.4 |    |    |    |    |
| LOC SCHENECTADY                 | 200   | 39.5 | 40.9 | 42.6 | 44.0 | 45.2 | 45.4 | 47.1 | 47.7 | 48.0 | 47.1 | 45.2 |    |    |    |    |
| DATE 2/3/75                     | 250   | 42.2 | 44.1 | 46.2 | 46.7 | 47.4 | 49.8 | 48.5 | 48.3 | 48.1 | 46.9 | 43.8 |    |    |    |    |
| RUN 74/13                       | 315   | 44.6 | 47.3 | 47.9 | 48.6 | 48.5 | 51.5 | 49.4 | 49.0 | 48.5 | 47.0 | 43.6 |    |    |    |    |
| TAPE                            | 400   | 43.7 | 46.4 | 46.8 | 48.6 | 49.3 | 51.7 | 50.3 | 49.9 | 48.9 | 46.6 | 42.6 |    |    |    |    |
| BAR 30.1 HG (101717. N/M2)      | 500   | 41.9 | 43.8 | 45.0 | 47.0 | 48.2 | 51.6 | 50.5 | 50.3 | 50.0 | 47.5 | 42.1 |    |    |    |    |
| TAMB 37. DEG F (276. DEG K)     | 630   | 45.1 | 46.5 | 49.2 | 50.7 | 51.9 | 55.1 | 54.4 | 53.9 | 52.9 | 49.8 | 43.6 |    |    |    |    |
| T-RT 27. DEG F (270. DEG K)     | 800   | 45.4 | 47.6 | 48.8 | 50.6 | 52.0 | 55.7 | 55.0 | 54.8 | 54.0 | 50.6 | 42.8 |    |    |    |    |
| MACT 0.99 GM/M3 (1.00099 KG/M3) | 1000  | 44.8 | 48.5 | 49.9 | 52.2 | 54.4 | 58.4 | 57.4 | 57.7 | 57.1 | 53.4 | 43.2 |    |    |    |    |
| NFA 5424. RPM (588. RAD/SEC)    | 1250  | 52.7 | 59.6 | 64.1 | 67.4 | 68.8 | 71.3 | 68.3 | 67.0 | 64.4 | 61.2 | 51.4 |    |    |    |    |
| NFK 5543. RPM (590. RAD/SEC)    | 1600  | 52.5 | 54.2 | 57.9 | 61.0 | 62.5 | 65.4 | 63.3 | 62.6 | 60.2 | 57.2 | 46.5 |    |    |    |    |
| NPD 8823. RPM (924. RAD/SEC)    | 2000  | 47.8 | 50.1 | 52.5 | 55.2 | 57.6 | 61.2 | 60.4 | 59.1 | 57.9 | 54.4 | 44.5 |    |    |    |    |
| NO. OF BLADES 15                | 2500  | 49.8 | 52.4 | 54.5 | 58.5 | 61.7 | 66.3 | 66.4 | 66.1 | 64.0 | 58.8 | 48.3 |    |    |    |    |
| FAN TIP SPEED 474. FT/SEC       | 3150  | 46.4 | 49.6 | 52.5 | 55.7 | 58.6 | 62.7 | 61.9 | 61.8 | 61.0 | 56.6 | 45.3 |    |    |    |    |
|                                 | 4000  | 44.1 | 48.8 | 51.7 | 55.3 | 57.4 | 61.5 | 61.1 | 62.2 | 61.4 | 55.5 | 42.1 |    |    |    |    |
|                                 | 5000  | 42.2 | 45.2 | 48.3 | 52.5 | 55.1 | 58.9 | 58.5 | 58.8 | 58.5 | 52.5 | 39.4 |    |    |    |    |
|                                 | 6300  | 39.6 | 43.1 | 46.5 | 50.1 | 53.5 | 57.9 | 57.2 | 58.2 | 57.4 | 50.7 | 37.4 |    |    |    |    |
|                                 | 8000  | 35.4 | 39.7 | 43.0 | 47.1 | 50.0 | 54.4 | 53.9 | 55.0 | 53.2 | 47.6 | 33.8 |    |    |    |    |
|                                 | 10000 | 33.7 | 37.7 | 41.3 | 45.8 | 49.2 | 53.3 | 53.0 | 53.4 | 52.6 | 45.0 | 30.2 |    |    |    |    |
|                                 | 12500 | 29.8 | 33.9 | 37.9 | 43.2 | 46.4 | 51.0 | 50.2 | 51.1 | 48.3 | 40.8 | 23.5 |    |    |    |    |
|                                 | 16000 | 23.7 | 27.6 | 31.1 | 36.6 | 40.7 | 44.2 | 44.6 | 44.3 | 42.2 | 32.2 | 13.0 |    |    |    |    |
|                                 | 20000 | 15.9 | 20.9 | 25.2 | 30.3 | 34.2 | 38.9 | 38.4 | 38.4 | 35.4 | 23.4 |      |    |    |    |    |
|                                 | 25000 | 5.5  | 10.9 | 15.9 | 21.7 | 25.5 | 30.4 | 29.2 | 27.4 | 22.7 | 8.1  |      |    |    |    |    |
|                                 | 31500 |      |      | 3.8  | 10.8 | 14.4 | 19.5 | 17.3 | 14.4 | 7.7  |      |      |    |    |    |    |
|                                 | 40000 |      |      |      |      |      | 0.8  |      |      |      |      |      |    |    |    |    |
|                                 | 50000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
|                                 | 63000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
|                                 | 80000 |      |      |      |      |      |      |      |      |      |      |      |    |    |    |    |
| OVERALL CALCULATED              |       | 61.2 | 63.5 | 67.8 | 70.1 | 71.8 | 74.8 | 73.2 | 72.7 | 71.1 | 66.9 | 58.8 |    |    |    |    |
| PNDP                            |       | 71.5 | 74.2 | 77.4 | 80.8 | 82.7 | 86.7 | 86.2 | 86.8 | 84.4 | 79.7 | 69.8 |    |    |    |    |

ORIGINAL PAGE IS OF POOR QUALITY



PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (50, DEG, F, 70 PERCENT REL. HUM, DAY)  
 ANGLES FROM INLET IN DEGREES (CARD RADIANS)

PROC: DATE 4 MONTH 49 DAY 0 HR: 0:0

|                    | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 146    | 156    | 180    | 200    | 225    | 240    | 270    | 300    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ:              | (0.92) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.00) | (3.30) | (3.60) | (3.90) | (4.20) | (4.50) |
| SIDELINE 200 FT    | 80     | 86.0   | 87.5   | 91.9   | 95.6   | 99.7   | 97.3   | 93.3   | 89.2   | 91.2   | 88.4   | 85.3   | 82.4   | 85.3   | 82.4   | 79.5   | 76.6   |
| VEHICLE 60.75 M    | 100    | 37.2   | 41.8   | 46.9   | 47.6   | 47.6   | 44.5   | 44.5   | 41.2   | 44.3   | 45.3   | 44.4   | 41.5   | 44.2   | 43.8   | 41.4   | 38.9   |
| CONFIG R055        | 120    | 34.2   | 40.0   | 49.1   | 45.9   | 47.7   | 44.3   | 44.3   | 47.9   | 46.3   | 44.2   | 43.8   | 41.5   | 44.2   | 43.8   | 41.4   | 38.9   |
| LCB SCHEMECTADY    | 140    | 39.8   | 41.6   | 42.5   | 43.2   | 44.0   | 44.9   | 44.9   | 45.3   | 45.4   | 45.0   | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   |
| DATE 02-03-75      | 160    | 38.8   | 40.3   | 42.0   | 43.2   | 44.1   | 44.9   | 46.9   | 47.3   | 46.9   | 46.0   | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   |
| BLD 76019          | 180    | 41.7   | 43.0   | 45.9   | 46.1   | 47.0   | 46.5   | 47.8   | 48.2   | 47.9   | 48.1   | 47.7   | 47.7   | 47.7   | 47.7   | 47.7   | 47.7   |
| TYPE 800032        | 200    | 43.6   | 45.1   | 46.9   | 46.5   | 47.6   | 46.5   | 48.0   | 47.6   | 47.4   | 45.7   | 42.7   | 42.7   | 42.7   | 42.7   | 42.7   | 42.7   |
| BAR 30.1 HO        | 220    | 42.6   | 44.7   | 45.4   | 46.6   | 46.0   | 46.3   | 49.3   | 48.6   | 47.9   | 45.7   | 42.1   | 42.1   | 42.1   | 42.1   | 42.1   | 42.1   |
| 201970 N421        | 240    | 40.7   | 43.2   | 44.2   | 46.7   | 46.3   | 46.6   | 50.1   | 49.7   | 48.7   | 46.7   | 42.0   | 42.0   | 42.0   | 42.0   | 42.0   | 42.0   |
| YAW 48.1 DEG F     | 260    | 43.0   | 44.3   | 47.3   | 49.0   | 50.6   | 51.7   | 52.5   | 51.9   | 50.8   | 48.4   | 42.2   | 42.2   | 42.2   | 42.2   | 42.2   | 42.2   |
| (27.1 DEG K)       | 280    | 41.6   | 45.3   | 46.9   | 47.6   | 49.3   | 49.3   | 51.3   | 51.3   | 51.9   | 48.3   | 40.9   | 40.9   | 40.9   | 40.9   | 40.9   | 40.9   |
| THET 34.1 DEG F    | 300    | 43.1   | 45.4   | 49.7   | 53.7   | 53.6   | 54.3   | 57.3   | 56.6   | 56.1   | 55.3   | 53.5   | 53.5   | 53.5   | 53.5   | 53.5   | 53.5   |
| (27.4 DEG K)       | 320    | 41.9   | 44.9   | 46.1   | 46.7   | 46.7   | 46.3   | 52.6   | 52.0   | 50.7   | 48.3   | 45.4   | 45.4   | 45.4   | 45.4   | 45.4   | 45.4   |
| UACT 3.43 GM/M3    | 340    | 38.9   | 40.5   | 43.1   | 45.1   | 47.4   | 49.4   | 49.8   | 51.0   | 50.6   | 47.9   | 45.8   | 45.8   | 45.8   | 45.8   | 45.8   | 45.8   |
| 4.00343 KG/M3      | 360    | 44.4   | 47.1   | 50.1   | 52.4   | 55.7   | 55.9   | 61.6   | 63.5   | 61.1   | 56.7   | 53.3   | 53.3   | 53.3   | 53.3   | 53.3   | 53.3   |
| RPS 5450.0 RPM     | 380    | 43.4   | 46.1   | 48.1   | 51.4   | 54.9   | 55.0   | 59.6   | 65.2   | 62.8   | 58.0   | 54.8   | 54.8   | 54.8   | 54.8   | 54.8   | 54.8   |
| ( 97.1. RAD/SEC)   | 400    | 42.0   | 47.8   | 48.7   | 52.3   | 55.1   | 55.8   | 59.6   | 66.7   | 60.7   | 54.6   | 52.0   | 52.0   | 52.0   | 52.0   | 52.0   | 52.0   |
| RPK 5553.0 RPM     | 420    | 41.6   | 45.4   | 48.0   | 51.9   | 54.8   | 54.8   | 59.9   | 57.0   | 55.7   | 52.6   | 50.4   | 50.4   | 50.4   | 50.4   | 50.4   | 50.4   |
| ( 98.1. RAD/SEC)   | 440    | 47.2   | 49.1   | 53.0   | 46.1   | 50.7   | 46.0   | 53.6   | 55.8   | 54.3   | 47.3   | 44.4   | 44.4   | 44.4   | 44.4   | 44.4   | 44.4   |
| RPS 8823.0 RPM     | 460    | 44.4   | 47.7   | 41.0   | 44.7   | 47.9   | 45.3   | 51.8   | 53.7   | 51.7   | 47.2   | 43.2   | 43.2   | 43.2   | 43.2   | 43.2   | 43.2   |
| ( 92.1. RAD/SEC)   | 480    | 41.9   | 46.2   | 50.0   | 43.1   | 49.0   | 42.4   | 50.3   | 51.7   | 51.9   | 43.8   | 40.8   | 40.8   | 40.8   | 40.8   | 40.8   | 40.8   |
| NO. OF BLADES 15   | 500    | 41.5   | 44.8   | 37.8   | 40.4   | 43.6   | 42.1   | 48.1   | 49.2   | 48.6   | 39.2   | 36.5   | 36.5   | 36.5   | 36.5   | 36.5   | 36.5   |
| RAM TIP SPEED 1000 | 520    | 43.4   | 48.2   | 51.0   | 35.9   | 38.4   | 36.2   | 43.9   | 44.2   | 42.1   | 31.8   | 29.5   | 29.5   | 29.5   | 29.5   | 29.5   | 29.5   |
| ( 476. FT/S)       | 540    | 46.9   | 53.0   | 27.2   | 30.2   | 33.9   | 32.6   | 38.7   | 38.9   | 36.3   | 24.4   | 22.4   | 22.4   | 22.4   | 22.4   | 22.4   | 22.4   |
| 25000              | 560    | 44.8   | 48.7   | 22.1   | 26.7   | 29.2   | 25.2   | 31.2   | 35.0   | 25.2   | 15.8   | 15.8   | 15.8   | 15.8   | 15.8   | 15.8   | 15.8   |
| 31500              | 580    | 41.9   | 46.0   | 18.7   | 22.1   | 25.0   | 21.0   | 27.4   | 27.7   | 24.4   | 17.4   | 17.4   | 17.4   | 17.4   | 17.4   | 17.4   | 17.4   |
| 40000              | 600    | 38.9   | 43.1   | 15.0   | 18.1   | 20.8   | 18.0   | 24.3   | 24.3   | 21.7   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   |
| 50000              | 620    | 37.2   | 41.6   | 14.6   | 17.6   | 19.8   | 17.6   | 23.3   | 23.3   | 20.7   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   |
| 60000              | 640    | 34.2   | 39.8   | 11.6   | 14.6   | 16.6   | 14.6   | 21.3   | 21.3   | 18.7   | 14.6   | 14.6   | 14.6   | 14.6   | 14.6   | 14.6   | 14.6   |
| 80000              | 660    | 31.2   | 36.8   | 9.7    | 12.7   | 14.7   | 12.7   | 19.3   | 19.3   | 16.7   | 12.7   | 12.7   | 12.7   | 12.7   | 12.7   | 12.7   | 12.7   |
| OVERALL CALCULATED |        | 35.8   | 37.7   | 40.3   | 42.8   | 44.9   | 44.2   | 47.9   | 49.0   | 48.3   | 43.9   | 39.9   | 39.9   | 39.9   | 39.9   | 39.9   | 39.9   |
| PNDB               |        | 26.8   | 29.9   | 32.1   | 34.9   | 37.4   | 37.0   | 41.7   | 43.1   | 41.8   | 37.4   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   |

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BASE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE 8-MONTH 68 BY: J.M.H. 076

MODEL SOUND PRESSURE LEVELS (50' DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES, (AND RADIANS)

|                   | 55     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 148    | 156    | 160    | 170    | 180    | PWL   |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| FREQ.             | (0.92) | (1.00) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.94) | (3.16) | (3.39) |       |
| RADIAL 17' FT     | 22.4   | 23.4   | 24.4   | 25.4   | 26.4   | 27.4   | 28.4   | 29.4   | 30.4   | 31.4   | 32.4   | 33.4   | 34.4   | 35.4   | 112.6 |
| VEHICLE R559      | 23.4   | 24.4   | 25.4   | 26.4   | 27.4   | 28.4   | 29.4   | 30.4   | 31.4   | 32.4   | 33.4   | 34.4   | 35.4   | 36.4   | 107.2 |
| SCF10 75960       | 24.4   | 25.4   | 26.4   | 27.4   | 28.4   | 29.4   | 30.4   | 31.4   | 32.4   | 33.4   | 34.4   | 35.4   | 36.4   | 37.4   | 106.6 |
| LCS SCMELECTADY   | 25.4   | 26.4   | 27.4   | 28.4   | 29.4   | 30.4   | 31.4   | 32.4   | 33.4   | 34.4   | 35.4   | 36.4   | 37.4   | 38.4   | 108.2 |
| GATE 62003-72     | 26.4   | 27.4   | 28.4   | 29.4   | 30.4   | 31.4   | 32.4   | 33.4   | 34.4   | 35.4   | 36.4   | 37.4   | 38.4   | 39.4   | 108.2 |
| BUD 76-20         | 27.4   | 28.4   | 29.4   | 30.4   | 31.4   | 32.4   | 33.4   | 34.4   | 35.4   | 36.4   | 37.4   | 38.4   | 39.4   | 40.4   | 108.6 |
| YADE 100022       | 28.4   | 29.4   | 30.4   | 31.4   | 32.4   | 33.4   | 34.4   | 35.4   | 36.4   | 37.4   | 38.4   | 39.4   | 40.4   | 41.4   | 108.2 |
| BAR 30.1 MG       | 29.4   | 30.4   | 31.4   | 32.4   | 33.4   | 34.4   | 35.4   | 36.4   | 37.4   | 38.4   | 39.4   | 40.4   | 41.4   | 42.4   | 108.6 |
| 601576. N/M21     | 30.4   | 31.4   | 32.4   | 33.4   | 34.4   | 35.4   | 36.4   | 37.4   | 38.4   | 39.4   | 40.4   | 41.4   | 42.4   | 43.4   | 108.2 |
| YAN 41. DEG F     | 31.4   | 32.4   | 33.4   | 34.4   | 35.4   | 36.4   | 37.4   | 38.4   | 39.4   | 40.4   | 41.4   | 42.4   | 43.4   | 44.4   | 108.6 |
| THEY (278. DEG K) | 32.4   | 33.4   | 34.4   | 35.4   | 36.4   | 37.4   | 38.4   | 39.4   | 40.4   | 41.4   | 42.4   | 43.4   | 44.4   | 45.4   | 112.6 |
| (34. DEG F)       | 33.4   | 34.4   | 35.4   | 36.4   | 37.4   | 38.4   | 39.4   | 40.4   | 41.4   | 42.4   | 43.4   | 44.4   | 45.4   | 46.4   | 112.6 |
| (274. DEG K)      | 34.4   | 35.4   | 36.4   | 37.4   | 38.4   | 39.4   | 40.4   | 41.4   | 42.4   | 43.4   | 44.4   | 45.4   | 46.4   | 47.4   | 114.6 |
| WACT 3.13 GM/M3   | 35.4   | 36.4   | 37.4   | 38.4   | 39.4   | 40.4   | 41.4   | 42.4   | 43.4   | 44.4   | 45.4   | 46.4   | 47.4   | 48.4   | 114.6 |
| 100313. KG/M3     | 36.4   | 37.4   | 38.4   | 39.4   | 40.4   | 41.4   | 42.4   | 43.4   | 44.4   | 45.4   | 46.4   | 47.4   | 48.4   | 49.4   | 114.6 |
| WFA 6222. RPM     | 37.4   | 38.4   | 39.4   | 40.4   | 41.4   | 42.4   | 43.4   | 44.4   | 45.4   | 46.4   | 47.4   | 48.4   | 49.4   | 50.4   | 125.6 |
| 6311. RAD/SEC     | 38.4   | 39.4   | 40.4   | 41.4   | 42.4   | 43.4   | 44.4   | 45.4   | 46.4   | 47.4   | 48.4   | 49.4   | 50.4   | 51.4   | 118.6 |
| RPK 6333. RPM     | 39.4   | 40.4   | 41.4   | 42.4   | 43.4   | 44.4   | 45.4   | 46.4   | 47.4   | 48.4   | 49.4   | 50.4   | 51.4   | 52.4   | 127.6 |
| 663. RAD/SEC      | 40.4   | 41.4   | 42.4   | 43.4   | 44.4   | 45.4   | 46.4   | 47.4   | 48.4   | 49.4   | 50.4   | 51.4   | 52.4   | 53.4   | 126.2 |
| WFB 6623. RPM     | 41.4   | 42.4   | 43.4   | 44.4   | 45.4   | 46.4   | 47.4   | 48.4   | 49.4   | 50.4   | 51.4   | 52.4   | 53.4   | 54.4   | 116.2 |
| 624. RAD/SEC      | 42.4   | 43.4   | 44.4   | 45.4   | 46.4   | 47.4   | 48.4   | 49.4   | 50.4   | 51.4   | 52.4   | 53.4   | 54.4   | 55.4   | 126.6 |
| NO. OF BLADES 19  | 43.4   | 44.4   | 45.4   | 46.4   | 47.4   | 48.4   | 49.4   | 50.4   | 51.4   | 52.4   | 53.4   | 54.4   | 55.4   | 56.4   | 127.2 |
| SPIN SPEED 18000  | 44.4   | 45.4   | 46.4   | 47.4   | 48.4   | 49.4   | 50.4   | 51.4   | 52.4   | 53.4   | 54.4   | 55.4   | 56.4   | 57.4   | 127.2 |
| 943. FT/SEC       | 45.4   | 46.4   | 47.4   | 48.4   | 49.4   | 50.4   | 51.4   | 52.4   | 53.4   | 54.4   | 55.4   | 56.4   | 57.4   | 58.4   | 127.6 |
| 20000             | 46.4   | 47.4   | 48.4   | 49.4   | 50.4   | 51.4   | 52.4   | 53.4   | 54.4   | 55.4   | 56.4   | 57.4   | 58.4   | 59.4   | 127.6 |
| 25000             | 47.4   | 48.4   | 49.4   | 50.4   | 51.4   | 52.4   | 53.4   | 54.4   | 55.4   | 56.4   | 57.4   | 58.4   | 59.4   | 60.4   | 127.6 |
| 31500             | 48.4   | 49.4   | 50.4   | 51.4   | 52.4   | 53.4   | 54.4   | 55.4   | 56.4   | 57.4   | 58.4   | 59.4   | 60.4   | 61.4   | 127.6 |
| 40000             | 49.4   | 50.4   | 51.4   | 52.4   | 53.4   | 54.4   | 55.4   | 56.4   | 57.4   | 58.4   | 59.4   | 60.4   | 61.4   | 62.4   | 127.6 |
| 50000             | 50.4   | 51.4   | 52.4   | 53.4   | 54.4   | 55.4   | 56.4   | 57.4   | 58.4   | 59.4   | 60.4   | 61.4   | 62.4   | 63.4   | 127.6 |
| 63000             | 51.4   | 52.4   | 53.4   | 54.4   | 55.4   | 56.4   | 57.4   | 58.4   | 59.4   | 60.4   | 61.4   | 62.4   | 63.4   | 64.4   | 127.6 |
| 80000             | 52.4   | 53.4   | 54.4   | 55.4   | 56.4   | 57.4   | 58.4   | 59.4   | 60.4   | 61.4   | 62.4   | 63.4   | 64.4   | 65.4   | 127.6 |
| OVERALL MEASURED  | 53.4   | 54.4   | 55.4   | 56.4   | 57.4   | 58.4   | 59.4   | 60.4   | 61.4   | 62.4   | 63.4   | 64.4   | 65.4   | 66.4   | 127.6 |
| SMALL CALCULATED  | 54.4   | 55.4   | 56.4   | 57.4   | 58.4   | 59.4   | 60.4   | 61.4   | 62.4   | 63.4   | 64.4   | 65.4   | 66.4   | 67.4   | 127.6 |

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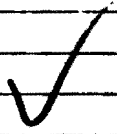




BASE 1 FULC SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59) DEG. F 70 PERCENT REL. HUM. DAY  
 PROC. DATE - MONTH 12 DAY 18 RR. 0.6  
 ANGLE FROM INLET IN DEGREES (AND RADIAN)

| REQ.                | 53    | 62    | 71     | 81    | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 0     | 0  | 0  | 0  | 0  | 0  | 0  | PWL   |
|---------------------|-------|-------|--------|-------|--------|--------|--------|--------|--------|--------|--------|-------|----|----|----|----|----|----|-------|
|                     | (2.2) | (1.0) | (1.24) | (1.3) | (1.58) | (1.76) | (1.84) | (2.13) | (2.32) | (2.52) | (2.73) | 0     | 0  | 0  | 0  | 0  | 0  | 0  | PWL   |
| RADIAL 17' FT.      | 30    | 30    | 30     | 30    | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30    | 30 | 30 | 30 | 30 | 30 | 30 | 119.6 |
| VEHICLE S. 41       | 100   | 77.8  | 65.2   | 66.5  | 67.5   | 67.7   | 73.7   | 73.0   | 74.7   | 77.4   | 81.8   | 85.4  |    |    |    |    |    |    | 111.3 |
| CONFIG 7586C        | 125   | 78.7  | 78.10  | 76.8  | 75.3   | 76.3   | 78.5   | 78.8   | 78.1   | 79.6   | 80.1   | 82.9  |    |    |    |    |    |    | 113.6 |
| L-8 SCWENECTADT     | 150   | 78.7  | 72.8   | 74.5  | 74.8   | 74.9   | 78.5   | 77.8   | 79.8   | 80.8   | 83.4   | 85.7  |    |    |    |    |    |    | 114.8 |
| DATE 02-23-75       | 200   | 78.7  | 72.8   | 74.5  | 74.8   | 74.9   | 78.5   | 77.8   | 79.8   | 80.8   | 83.4   | 85.7  |    |    |    |    |    |    | 116.8 |
| BLN 76022           | 250   | 80.2  | 77.5   | 79.5  | 79.8   | 80.3   | 82.8   | 82.8   | 84.1   | 84.6   | 86.3   | 87.8  |    |    |    |    |    |    | 118.7 |
| TYPE R0802E         | 300   | 77.3  | 76.3   | 76.5  | 78.4   | 78.6   | 78.9   | 80.6   | 80.6   | 81.9   | 83.9   | 84.7  |    |    |    |    |    |    | 119.2 |
| BAR 30.1 MG         | 400   | 76.7  | 76.5   | 76.5  | 77.3   | 78.9   | 78.8   | 80.6   | 80.8   | 81.8   | 83.9   | 84.7  |    |    |    |    |    |    | 119.9 |
| AC13741 N(42)       | 500   | 74.1  | 74.4   | 75.2  | 76.4   | 77.7   | 78.4   | 80.6   | 81.7   | 82.9   | 84.4   | 83.5  |    |    |    |    |    |    | 115.2 |
| VAN 41 DEG F        | 600   | 77.3  | 77.3   | 77.8  | 78.9   | 79.9   | 78.9   | 82.8   | 83.2   | 83.9   | 83.5   | 82.5  |    |    |    |    |    |    | 115.7 |
| (27) DEG K          | 1000  | 74.7  | 75.5   | 76.3  | 78.6   | 79.8   | 79.1   | 83.8   | 84.4   | 85.1   | 83.8   | 82.0  |    |    |    |    |    |    | 115.7 |
| TWBT 34 DEG F       | 1250  | 75.3  | 74.6   | 76.4  | 78.4   | 80.1   | 78.4   | 84.1   | 84.4   | 85.2   | 83.8   | 81.7  |    |    |    |    |    |    | 114.7 |
| (27.4) DEG K        | 1500  | 78.2  | 75.2   | 76.3  | 78.3   | 79.3   | 78.7   | 83.4   | 83.3   | 83.8   | 82.2   | 81.7  |    |    |    |    |    |    | 121.7 |
| MART 3.13 GM/M3     | 2000  | 79.1  | 82.4   | 85.4  | 84.7   | 84.4   | 78.1   | 89.3   | 92.9   | 91.2   | 87.3   | 82.5  |    |    |    |    |    |    | 128.3 |
| 8100333 KG/M3       | 2500  | 77.8  | 77.6   | 79.6  | 82.7   | 84.6   | 81.3   | 89.2   | 88.4   | 91.2   | 86.1   | 82.0  |    |    |    |    |    |    | 123.8 |
| BFA 777 RPM         | 3150  | 80.8  | 89.1   | 81.6  | 84.7   | 87.4   | 86.1   | 91.8   | 92.8   | 94.3   | 88.8   | 83.7  |    |    |    |    |    |    | 127.5 |
| 8141 RR/SEC         | 4000  | 82.9  | 82.2   | 86.7  | 89.5   | 91.9   | 88.6   | 96.6   | 98.3   | 97.8   | 92.8   | 87.3  |    |    |    |    |    |    | 122.2 |
| BPK 780 RPM         | 5000  | 79.9  | 78.8   | 81.2  | 84.1   | 86.7   | 85.1   | 92.8   | 92.3   | 91.4   | 88.7   | 81.5  |    |    |    |    |    |    | 121.2 |
| 828 RR/SEC          | 6300  | 81.7  | 76.8   | 80.8  | 83.3   | 85.8   | 82.1   | 91.8   | 91.7   | 93.4   | 86.8   | 80.4  |    |    |    |    |    |    | 122.7 |
| BFS 8823 RPM        | 8000  | 82.1  | 77.3   | 79.9  | 83.8   | 85.4   | 82.2   | 90.9   | 93.2   | 93.9   | 88.4   | 82.2  |    |    |    |    |    |    | 123.4 |
| 824 RR/SEC          | 10000 | 84.1  | 78.6   | 80.8  | 83.7   | 85.7   | 82.1   | 91.5   | 93.9   | 93.9   | 87.3   | 81.1  |    |    |    |    |    |    | 123.4 |
| BC OF BLADE 19      | 12500 | 83.7  | 77.8   | 80.1  | 82.9   | 85.1   | 82.6   | 91.4   | 93.3   | 94.8   | 87.3   | 81.7  |    |    |    |    |    |    | 122.6 |
| RAN TIP SPEED 16000 | 16000 | 85.8  | 75.7   | 78.5  | 81.6   | 83.8   | 80.8   | 88.8   | 92.1   | 93.8   | 86.3   | 80.1  |    |    |    |    |    |    | 122.6 |
| 678 FT/SEC          | 20000 | 86.9  | 78.7   | 80.3  | 82.4   | 84.9   | 81.4   | 91.5   | 93.7   | 94.8   | 88.9   | 81.2  |    |    |    |    |    |    | 124.7 |
| 25000               | 25000 | 86.1  | 74.9   | 77.8  | 81.4   | 83.9   | 80.10  | 88.8   | 92.3   | 93.8   | 87.3   | 81.8  |    |    |    |    |    |    | 124.7 |
| 51500               | 50000 | 89.6  | 73.4   | 75.1  | 78.3   | 81.7   | 78.6   | 87.8   | 89.5   | 89.7   | 85.8   | 74.8  |    |    |    |    |    |    | 124.7 |
| 80000               | 80000 | 88.1  | 67.1   | 67.8  | 73.3   | 79.2   | 78.8   | 81.2   | 82.8   | 82.4   | 78.8   | 67.7  |    |    |    |    |    |    | 120.7 |
| 90000               | 63000 | 83.8  | 60.1   | 59.5  | 64.5   | 68.8   | 68.3   | 78.3   | 71.8   | 71.5   | 67.3   | 59.2  |    |    |    |    |    |    | 118.7 |
| 80000               | 80000 | 89.6  | 60.4   | 64.2  | 63.1   | 62.9   | 68.1   | 64.3   | 63.5   | 62.3   | 62.4   | 62.7  |    |    |    |    |    |    | 120.5 |
| OVERALL PRESSURE    |       |       |        |       |        |        |        |        |        |        |        |       |    |    |    |    |    |    |       |
| OVERALL CALCULATED  |       | 78.0  | 75.0   | 74.5  | 76.3   | 78.1   | 77.3   | 103.3  | 105.1  | 105.5  | 108.9  | 98.2  |    |    |    |    |    |    | 208.3 |
| PWL                 |       | 106.8 | 104.8  | 107.7 | 110.8  | 111.8  | 108.3  | 116.3  | 117.9  | 117.9  | 113.8  | 110.3 |    |    |    |    |    |    |       |



BASE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (90 DEG F; 70 PERCENT REL. HUM; DAY)  
 PROC: DATE 0 MONTH 12 DAY 8 AM 0.0  
 ANGLES FROM INLET IN DEGREES (RAD RADIANS)

|                        |        | 55     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 147    | 156    | 166    | 176    | 186    | 196    | 206    | 216    | 226    | 236    | 246    |      |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| FREQ                   | (0.72) | (1.00) | (1.24) | (1.41) | (1.59) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.95) | (3.18) | (3.42) | (3.67) | (3.93) | (4.20) | (4.48) | (4.76) | (5.05) | (5.35) |      |
| SIDELINE 2007 77       | 80     | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| VEHICLE 08.70 MI       | 100    | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| ECM #10 7986E          | 100    | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| LCR SCHEENSTADY        | 200    | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| GATE 02-03-75          | 250    | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| BLU 76022              | 300    | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| TABE 000002            | 400    | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| BAG 3071 M0            | 500    | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| 01574 M/421            | 600    | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| YAN 031 D02 F          | 800    | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| (270, D02 K)           | 1000   | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| YVET 34, D02 F         | 1250   | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| (270, D02 K)           | 1500   | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| MABY 3.13 GM/M3        | 2000   | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| 4.000003 KD/M3         | 2500   | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| MFB 7770: DPH          | 3000   | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| ( 010, RAD/SEC)        | 4000   | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| MFB 7770: DPH          | 5000   | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| ( 020, RAD/SEC)        | 6000   | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| MFB 0023: DPH          | 8000   | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| ( 020, RAD/SEC)        | 10000  | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| DOT OF BLADES 33 1.500 | 15000  | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| SAN TIP SPEED 10000    | 20000  | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| 070, RT/SEC            | 25000  | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
|                        | 30000  | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
|                        | 40000  | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
|                        | 50000  | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
|                        | 60000  | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
|                        | 80000  | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| GENERAL BALANCE TYPE   | 9000   | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |
| PROG                   | 9000   | 74.0   | 72.9   | 64.4   | 63.8   | 66.2   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0   | 66.0 |



BASE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (50' DEG, P2 70 PERCENT REL, MON, DAY)  
 ANGLE FROM INLET IN DEGREES (AND RADIAN)

PROC DATE - MONTH DAY HR' 0.0

| FREQ                      | ANGLE FROM INLET IN DEGREES (AND RADIAN) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                           | 0.0                                      | 1.0   | 2.0   | 3.0   | 4.0   | 5.0   | 6.0   | 7.0   | 8.0   | 9.0   | 10.0  | 11.0  | 12.0  | 13.0  | 14.0  |
| SIDE LINE 3000 FT         | 47.0                                     | 48.5  | 52.7  | 56.0  | 58.2  | 57.5  | 56.1  | 52.7  | 54.4  | 55.5  | 55.8  | 55.8  | 55.8  | 55.8  | 55.8  |
| VEHICLE 60-75 MPH         | 43.0                                     | 45.0  | 49.2  | 52.5  | 54.7  | 54.0  | 52.6  | 49.2  | 50.9  | 52.0  | 52.3  | 52.3  | 52.3  | 52.3  | 52.3  |
| VEHICLE 75-85 MPH         | 41.0                                     | 43.0  | 47.2  | 50.5  | 52.7  | 52.0  | 50.6  | 47.2  | 48.9  | 50.0  | 50.3  | 50.3  | 50.3  | 50.3  | 50.3  |
| LOG SCHEMECTADY           | 40.0                                     | 42.0  | 46.2  | 49.5  | 51.7  | 51.0  | 49.6  | 46.2  | 47.9  | 49.0  | 49.3  | 49.3  | 49.3  | 49.3  | 49.3  |
| DATE 12-10-75             | 38.0                                     | 40.0  | 44.2  | 47.5  | 49.7  | 49.0  | 47.6  | 44.2  | 45.9  | 47.0  | 47.3  | 47.3  | 47.3  | 47.3  | 47.3  |
| BL 76-23                  | 36.0                                     | 38.0  | 42.2  | 45.5  | 47.7  | 47.0  | 45.6  | 42.2  | 43.9  | 45.0  | 45.3  | 45.3  | 45.3  | 45.3  | 45.3  |
| TAGE 800032               | 34.0                                     | 36.0  | 40.2  | 43.5  | 45.7  | 45.0  | 43.6  | 40.2  | 41.9  | 43.0  | 43.3  | 43.3  | 43.3  | 43.3  | 43.3  |
| BAR 3001 HQ               | 32.0                                     | 34.0  | 38.2  | 41.5  | 43.7  | 43.0  | 41.6  | 38.2  | 39.9  | 41.0  | 41.3  | 41.3  | 41.3  | 41.3  | 41.3  |
| BAR 3001 N/121            | 30.0                                     | 32.0  | 36.2  | 39.5  | 41.7  | 41.0  | 39.6  | 36.2  | 37.9  | 39.0  | 39.3  | 39.3  | 39.3  | 39.3  | 39.3  |
| TAGE 41 DEG F             | 28.0                                     | 30.0  | 34.2  | 37.5  | 39.7  | 39.0  | 37.6  | 34.2  | 35.9  | 37.0  | 37.3  | 37.3  | 37.3  | 37.3  | 37.3  |
| TAGE (270 DEG K)          | 26.0                                     | 28.0  | 32.2  | 35.5  | 37.7  | 37.0  | 35.6  | 32.2  | 33.9  | 35.0  | 35.3  | 35.3  | 35.3  | 35.3  | 35.3  |
| TAGE (270 DEG K)          | 24.0                                     | 26.0  | 30.2  | 33.5  | 35.7  | 35.0  | 33.6  | 30.2  | 31.9  | 33.0  | 33.3  | 33.3  | 33.3  | 33.3  | 33.3  |
| TAGE 3.13 CM/MS           | 22.0                                     | 24.0  | 28.2  | 31.5  | 33.7  | 33.0  | 31.6  | 28.2  | 29.9  | 31.0  | 31.3  | 31.3  | 31.3  | 31.3  | 31.3  |
| TAGE 4.0113 CM/MS         | 20.0                                     | 22.0  | 26.2  | 29.5  | 31.7  | 31.0  | 29.6  | 26.2  | 27.9  | 29.0  | 29.3  | 29.3  | 29.3  | 29.3  | 29.3  |
| SP 7700 MPH               | 18.0                                     | 20.0  | 24.2  | 27.5  | 29.7  | 29.0  | 27.6  | 24.2  | 25.9  | 27.0  | 27.3  | 27.3  | 27.3  | 27.3  | 27.3  |
| SP (0.13, RAD/SEC)        | 16.0                                     | 18.0  | 22.2  | 25.5  | 27.7  | 27.0  | 25.6  | 22.2  | 23.9  | 25.0  | 25.3  | 25.3  | 25.3  | 25.3  | 25.3  |
| SP 7000 MPH               | 14.0                                     | 16.0  | 20.2  | 23.5  | 25.7  | 25.0  | 23.6  | 20.2  | 21.9  | 23.0  | 23.3  | 23.3  | 23.3  | 23.3  | 23.3  |
| SP (0.24, RAD/SEC)        | 12.0                                     | 14.0  | 18.2  | 21.5  | 23.7  | 23.0  | 21.6  | 18.2  | 19.9  | 21.0  | 21.3  | 21.3  | 21.3  | 21.3  | 21.3  |
| NO. OF BLADES 15          | 10.0                                     | 12.0  | 16.2  | 19.5  | 21.7  | 21.0  | 19.6  | 16.2  | 17.9  | 19.0  | 19.3  | 19.3  | 19.3  | 19.3  | 19.3  |
| RAM TIP SPEED 10000       | 8.0                                      | 10.0  | 14.2  | 17.5  | 19.7  | 19.0  | 17.6  | 14.2  | 15.9  | 17.0  | 17.3  | 17.3  | 17.3  | 17.3  | 17.3  |
| RAM TIP SPEED 6700 FT/SEC | 6.0                                      | 8.0   | 12.2  | 15.5  | 17.7  | 17.0  | 15.6  | 12.2  | 13.9  | 15.0  | 15.3  | 15.3  | 15.3  | 15.3  | 15.3  |
| 25000                     | 4.0                                      | 6.0   | 10.2  | 13.5  | 15.7  | 15.0  | 13.6  | 10.2  | 11.9  | 13.0  | 13.3  | 13.3  | 13.3  | 13.3  | 13.3  |
| 5000                      | 2.0                                      | 4.0   | 6.2   | 8.5   | 10.7  | 10.0  | 8.6   | 6.2   | 7.9   | 9.0   | 9.3   | 9.3   | 9.3   | 9.3   | 9.3   |
| 8000                      | 1.0                                      | 2.0   | 3.2   | 4.5   | 5.7   | 5.0   | 4.6   | 3.2   | 3.9   | 5.0   | 5.3   | 5.3   | 5.3   | 5.3   | 5.3   |
| 10000                     | 0.5                                      | 1.0   | 1.6   | 2.2   | 2.8   | 2.5   | 2.3   | 1.6   | 1.9   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| 20000                     | 0.2                                      | 0.4   | 0.6   | 0.8   | 1.0   | 0.9   | 0.8   | 0.6   | 0.7   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   |
| 30000                     | 0.1                                      | 0.2   | 0.3   | 0.4   | 0.5   | 0.4   | 0.4   | 0.3   | 0.3   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 40000                     | 0.05                                     | 0.1   | 0.15  | 0.2   | 0.25  | 0.22  | 0.2   | 0.15  | 0.18  | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 50000                     | 0.02                                     | 0.04  | 0.06  | 0.08  | 0.1   | 0.09  | 0.08  | 0.06  | 0.07  | 0.08  | 0.08  | 0.08  | 0.08  | 0.08  | 0.08  |
| 60000                     | 0.01                                     | 0.02  | 0.03  | 0.04  | 0.05  | 0.04  | 0.04  | 0.03  | 0.03  | 0.04  | 0.04  | 0.04  | 0.04  | 0.04  | 0.04  |
| 70000                     | 0.005                                    | 0.01  | 0.015 | 0.02  | 0.025 | 0.022 | 0.02  | 0.015 | 0.018 | 0.02  | 0.02  | 0.02  | 0.02  | 0.02  | 0.02  |
| 80000                     | 0.002                                    | 0.004 | 0.006 | 0.008 | 0.01  | 0.009 | 0.008 | 0.006 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 |
| 90000                     | 0.001                                    | 0.002 | 0.003 | 0.004 | 0.005 | 0.004 | 0.004 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| OVERALL AVERAGE           | 44.5                                     | 46.0  | 50.2  | 53.5  | 55.7  | 55.0  | 53.6  | 50.2  | 51.9  | 53.0  | 53.3  | 53.3  | 53.3  | 53.3  | 53.3  |
| PM2.5                     | 17.5                                     | 19.0  | 23.2  | 26.5  | 28.7  | 28.0  | 26.6  | 23.2  | 24.9  | 26.0  | 26.3  | 26.3  | 26.3  | 26.3  | 26.3  |



BASE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59' DEG, F; 70 PERCENT REL; MUG; DAY)

PROC: DATE = MONTH 00 DAY 00 HR: 00

ANGLES FROM INLET IN DEGREES (AND RADIANS)

PRER: (0.92)(1.00)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(3.0 0° 130° 0° 140° 0° 150° 0° 160° 0° 170° 0° 180° 0°)

|                     | 30    | 45   | 60   | 75   | 90   | 105  | 120  | 135  | 150  | 165  | 180  |
|---------------------|-------|------|------|------|------|------|------|------|------|------|------|
| SIDELINE 2003 FT?   | 45.0  | 46.5 | 47.7 | 51.1 | 50.7 | 50.5 | 47.6 | 44.7 | 45.9 | 45.9 | 44.3 |
| VEHICLE 1.66.75 (M) | 37.5  | 41.0 | 46.7 | 47.3 | 48.9 | 48.3 | 44.5 | 41.2 | 44.6 | 45.8 | 43.9 |
| VEHICLE R255        | 38.9  | 40.2 | 49.1 | 45.5 | 47.4 | 46.0 | 44.8 | 47.9 | 46.3 | 44.7 | 45.3 |
| PCNFIG 73866        | 40.5  | 41.0 | 43.5 | 44.4 | 44.8 | 44.6 | 45.1 | 45.3 | 45.7 | 45.8 | 42.8 |
| SCENECTADT          | 30.0  | 40.0 | 42.5 | 43.4 | 44.3 | 51.1 | 46.0 | 47.0 | 46.4 | 47.0 | 44.4 |
| DATE 02003-75       | 41.7  | 43.7 | 45.9 | 46.1 | 46.7 | 46.3 | 48.3 | 47.7 | 47.8 | 46.3 | 43.7 |
| BUB 76024           | 33.8  | 45.8 | 46.6 | 47.0 | 47.1 | 51.0 | 48.2 | 47.6 | 46.9 | 45.4 | 41.9 |
| TARE X00032         | 40.0  | 42.8 | 45.8 | 45.7 | 47.1 | 47.5 | 49.8 | 48.1 | 47.7 | 45.9 | 41.6 |
| BAR 30.1 MO         | 38.0  | 41.2 | 43.5 | 44.7 | 46.4 | 47.8 | 48.1 | 50.1 | 49.9 | 46.7 | 41.5 |
| 401376, N2421       | 43.0  | 44.5 | 47.5 | 48.5 | 50.3 | 51.9 | 53.8 | 52.3 | 51.0 | 48.7 | 42.2 |
| YAMB 401 D03 F      | 43.0  | 43.0 | 46.5 | 47.9 | 49.1 | 49.1 | 51.8 | 51.4 | 51.1 | 49.8 | 47.4 |
| (274, DEG K)        | 1000  | 42.1 | 45.8 | 47.0 | 49.0 | 50.6 | 49.7 | 54.4 | 54.2 | 53.7 | 51.3 |
| YMBT 34, DEG F      | 1250  | 42.8 | 45.4 | 50.0 | 53.7 | 53.8 | 53.3 | 57.5 | 57.4 | 57.1 | 55.8 |
| (274, DEG K)        | 1000  | 37.7 | 51.7 | 45.4 | 48.1 | 61.2 | 61.3 | 52.7 | 52.3 | 51.0 | 49.7 |
| WABT 3.43 GH/M3     | 2000  | 38.6 | 43.0 | 43.3 | 45.8 | 47.4 | 49.9 | 50.3 | 51.2 | 50.3 | 48.8 |
| 4.03343, KB/M3      | 2500  | 44.2 | 46.0 | 49.8 | 52.0 | 54.7 | 58.7 | 62.1 | 63.7 | 61.8 | 57.2 |
| WPS 3444, RPH       | 3150  | 43.1 | 45.1 | 48.4 | 51.4 | 54.5 | 57.7 | 59.8 | 60.2 | 59.5 | 56.8 |
| ( 578, RPH/SEC)     | 4000  | 42.0 | 47.1 | 48.7 | 53.0 | 55.3 | 58.0 | 59.1 | 61.8 | 61.9 | 54.6 |
| WPM 3547, RPH       | 5000  | 39.4 | 42.1 | 45.7 | 48.8 | 51.9 | 54.0 | 56.4 | 57.0 | 55.8 | 51.9 |
| ( 581, RPH/SEC)     | 4300  | 37.4 | 40.1 | 43.8 | 46.8 | 50.4 | 53.9 | 55.9 | 56.0 | 54.8 | 48.2 |
| WPM 4243, RPH       | 5000  | 34.4 | 38.7 | 41.8 | 45.0 | 47.8 | 50.5 | 52.7 | 54.0 | 52.2 | 47.3 |
| ( 921, RPH/SEC)     | 10000 | 32.2 | 36.5 | 39.8 | 43.1 | 45.9 | 48.1 | 50.8 | 51.4 | 51.5 | 43.8 |
| BOV OF BLADE 15     | 12500 | 29.8 | 34.2 | 38.5 | 41.1 | 43.6 | 46.1 | 48.3 | 49.0 | 48.4 | 39.7 |
| RAM TIP SPEED 10000 | 23.9  | 28.2 | 32.3 | 35.5 | 38.9 | 41.1 | 43.9 | 46.7 | 47.7 | 42.2 | 31.0 |
| 479; FT/SEC         | 20000 | 17.4 | 23.5 | 27.2 | 31.5 | 34.4 | 38.1 | 39.2 | 38.9 | 36.8 | 25.6 |
| 25000               | 7.8   | 15.8 | 18.7 | 23.8 | 27.9 | 29.5 | 31.2 | 33.0 | 33.0 | 28.4 | 12.8 |
| 51500               |       | 1.7  | 7.0  | 23.8 | 27.1 | 1.5  | 1.5  | 17.9 | 10.6 |      |      |
| 60000               |       |      |      |      |      |      |      |      |      |      |      |
| 50000               |       |      |      |      |      |      |      |      |      |      |      |
| 43000               |       |      |      |      |      |      |      |      |      |      |      |
| 60000               |       |      |      |      |      |      |      |      |      |      |      |
| OVERALL REGULATED   | 55.2  | 57.8 | 60.4 | 62.2 | 64.0 | 65.0 | 66.7 | 67.0 | 68.2 | 68.8 | 65.8 |
| PHSD                | 16.5  | 49.8 | 72.1 | 75.3 | 77.4 | 78.1 | 82.1 | 83.1 | 82.2 | 78.0 | 66.8 |



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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 74 DAY 0 HR. 0.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

|                    |                 | ANGLES FROM INLET IN DEGREES (AND RADIANS) |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     | PWL |     |       |
|--------------------|-----------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|-----|-----|-----|-------|
|                    |                 | 53.  | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 0.    | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.    |
|                    |                 | FREQ. (0.92)                               | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.   | (0. | (0. | (0. | (0. | (0. | (0. | (0.)  |
| 50                 |                 |  |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |     |       |
| 63                 |                 |  |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |     |       |
| RADIAL             | 17. FT.         | 80   | 72.1   | 69.4   | 72.7   | 76.2   | 76.2   | 78.2   | 73.5   | 69.5   | 75.0   | 76.8   | 75.7  |     |     |     |     |     |     | 109.0 |
|                    | ( 5. 4)         | 100  | 63.4   | 72.0   | 75.5   | 76.5   | 75.8   | 77.0   | 73.8   | 67.3   | 69.8   | 73.6   | 75.2  |     |     |     |     |     |     | 108.4 |
| VEHICLE            | 2-55            | 125  | 69.0   | 57.5   | 70.8   | 67.3   | 69.3   | 68.6   | 67.6   | 70.8   | 71.1   | 71.7   | 73.0  |     |     |     |     |     |     | 103.9 |
| CONFIG             | 75-67           | 150  | 63.9   | 65.5   | 66.0   | 66.3   | 66.5   | 68.0   | 68.0   | 68.8   | 70.3   | 72.6   | 74.0  |     |     |     |     |     |     | 102.8 |
| LCC                | SCHENECTADY     | 200  | 63.0   | 64.1   | 64.1   | 65.1   | 65.9   | 69.9   | 68.8   | 70.1   | 71.4   | 73.9   | 75.5  |     |     |     |     |     |     | 103.7 |
| DATE               | 01-16-75        | 250  | 66.0   | 67.3   | 69.1   | 66.8   | 69.3   | 71.6   | 71.6   | 71.6   | 72.1   | 73.4   | 74.5  |     |     |     |     |     |     | 104.9 |
| RUN                | 75-19           | 315  | 69.0   | 69.3   | 69.1   | 69.6   | 69.4   | 72.1   | 71.1   | 70.6   | 71.4   | 72.7   | 73.3  |     |     |     |     |     |     | 104.8 |
| TAPE               | X00033          | 400  | 63.9   | 67.5   | 67.5   | 68.8   | 68.9   | 71.8   | 71.0   | 71.3   | 71.8   | 73.1   | 73.2  |     |     |     |     |     |     | 104.5 |
| BAR                | 30.1 HR         | 500  | 65.1   | 66.4   | 67.7   | 66.2   | 69.4   | 72.4   | 72.4   | 73.2   | 74.2   | 74.4   | 75.1  |     |     |     |     |     |     | 105.6 |
|                    | (01711. N/M2)   | 630  | 67.7   | 68.3   | 69.8   | 71.3   | 72.8   | 75.6   | 76.3   | 76.1   | 76.9   | 77.9   | 74.0  |     |     |     |     |     |     | 108.9 |
| TAHR               | 40. DEG F       | 800  | 68.0   | 68.6   | 69.6   | 70.6   | 71.4   | 75.1   | 74.6   | 75.9   | 75.9   | 76.5   | 78.5  |     |     |     |     |     |     | 107.7 |
|                    | (278. DEG K)    | 1000                                       | 66.7   | 68.0   | 69.1   | 71.1   | 72.8   | 76.6   | 77.3   | 77.6   | 78.6   | 78.9   | 73.0  |     |     |     |     |     |     | 109.5 |
| TMET               | 33. DEG F       | 1250                                       | 68.6   | 69.8   | 71.4   | 73.7   | 75.4   | 79.1   | 79.8   | 81.2   | 83.2   | 83.5   | 77.6  |     |     |     |     |     |     | 113.1 |
|                    | (274. DEG K)    | 1400                                       | 65.2   | 65.7   | 68.5   | 70.3   | 72.0   | 75.2   | 75.9   | 76.3   | 76.6   | 77.4   | 72.7  |     |     |     |     |     |     | 108.1 |
| MACT               | 2.93 GM/M3      | 2000                                       | 64.6   | 65.4   | 67.9   | 69.4   | 70.1   | 73.6   | 74.1   | 74.9   | 75.7   | 77.1   | 71.0  |     |     |     |     |     |     | 106.9 |
|                    | (00293 KG/M3)   | 2500                                       | 70.1   | 71.1   | 74.3   | 76.4   | 78.1   | 81.8   | 84.0   | 87.4   | 88.2   | 85.8   | 79.5  |     |     |     |     |     |     | 117.3 |
| NFA                | 5446. RPM       | 3150                                       | 69.1   | 71.9   | 72.9   | 75.2   | 78.2   | 82.3   | 83.5   | 85.2   | 86.0   | 85.7   | 78.5  |     |     |     |     |     |     | 116.1 |
|                    | ( 578. RAD/SEC) | 4000                                       | 68.7   | 72.2   | 73.2   | 76.5   | 78.2   | 82.3   | 83.6   | 86.3   | 86.3   | 85.0   | 77.8  |     |     |     |     |     |     | 116.9 |
| NFK                | 5549. RPM       | 5000                                       | 66.2   | 67.8   | 70.4   | 73.6   | 75.7   | 80.1   | 81.3   | 82.8   | 82.9   | 81.3   | 73.5  |     |     |     |     |     |     | 113.3 |
|                    | ( 581. RAD/SEC) | 6300                                       | 64.9   | 66.3   | 68.8   | 71.8   | 74.7   | 79.8   | 80.3   | 81.3   | 83.2   | 81.4   | 74.2  |     |     |     |     |     |     | 112.8 |
| NFD                | 8823. RPM       | 8000                                       | 63.6   | 65.9   | 68.7   | 72.5   | 74.2   | 78.9   | 79.4   | 82.5   | 82.2   | 81.4   | 73.7  |     |     |     |     |     |     | 112.7 |
|                    | ( 924. RAD/SEC) | 10000                                      | 62.8   | 64.9   | 68.0   | 73.0   | 75.2   | 79.5   | 80.5   | 81.4   | 83.1   | 80.8   | 72.9  |     |     |     |     |     |     | 113.0 |
| NO. OF BLADES      | 15              | 12500                                      | 63.1   | 64.8   | 68.0   | 73.4   | 75.4   | 78.1   | 80.1   | 82.3   | 83.2   | 80.3   | 72.2  |     |     |     |     |     |     | 113.1 |
| FAN TIP SPEED      | 16000           |  | 61.7   | 63.9   | 66.4   | 72.4   | 75.6   | 78.8   | 79.3   | 82.1   | 82.5   | 80.3   | 71.8  |     |     |     |     |     |     | 113.1 |
|                    | 475. FT/SEC     | 20000                                      | 61.4   | 64.1   | 66.4   | 73.9   | 76.4   | 80.6   | 81.2   | 82.1   | 83.7   | 81.4   | 71.9  |     |     |     |     |     |     | 114.7 |
|                    |                 | 25000                                      | 60.5   | 64.1   | 65.4   | 77.5   | 78.4   | 80.5   | 80.9   | 81.7   | 81.8   | 82.1   | 70.3  |     |     |     |     |     |     | 115.2 |
|                    |                 | 31500                                      | 59.0   | 62.2   | 64.1   | 77.0   | 77.3   | 79.3   | 80.6   | 80.9   | 80.8   | 79.6   | 68.2  |     |     |     |     |     |     | 115.0 |
|                    |                 | 40000                                      | 57.8   | 60.2   | 60.9   | 78.3   | 76.8   | 78.7   | 79.4   | 79.4   | 77.8   | 78.9   | 63.8  |     |     |     |     |     |     | 115.9 |
|                    |                 | 50000                                      | 54.8   | 56.3   | 59.6   | 75.8   | 77.7   | 74.8   | 79.7   | 73.3   | 69.9   | 73.9   | 57.3  |     |     |     |     |     |     | 113.7 |
|                    |                 | 63000                                      | 53.5   | 51.1   | 49.5   | 69.2   | 71.3   | 67.1   | 68.3   | 68.2   | 59.8   | 65.3   | 50.2  |     |     |     |     |     |     | 109.5 |
|                    |                 | 80000                                      | 55.7   | 56.1   | 53.9   | 61.8   | 62.3   | 60.5   | 61.3   | 58.5   | 52.1   | 57.2   | 52.5  |     |     |     |     |     |     | 106.8 |
| OVERALL MEASURED   |                 |  | 81.8   | 82.3   | 84.4   | 88.4   | 89.7   | 92.7   | 93.5   | 95.2   | 96.1   | 94.8   | 88.9  |     |     |     |     |     |     | 127.2 |
| OVERALL CALCULATED |                 |  | 93.0   | 95.0   | 96.7   | 99.2   | 100.9  | 104.7  | 105.6  | 107.6  | 109.8  | 107.8  | 101.6 |     |     |     |     |     |     |       |
| PNDB               |                 |  |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |     |       |

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|                     | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 143.   | 156.   | 0.    | 0.    | 0.    | 0.    | 0.    |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| FREQ.               | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) |
| SIDELINE 200. FT.   | 83     | 48.5   | 46.8   | 50.7   | 54.6   | 54.7   | 56.5   | 51.3   | 48.9   | 50.7   | 50.4   | 45.8  |       |       |       |       |
| ( 80.96 K)          | 100    | 44.7   | 49.2   | 53.4   | 54.8   | 54.2   | 55.3   | 51.5   | 44.2   | 45.4   | 47.1   | 45.2  |       |       |       |       |
| VEHICLE R-55        | 125    | 43.2   | 44.7   | 49.6   | 45.5   | 47.7   | 46.8   | 45.3   | 47.7   | 46.6   | 45.8   | 43.5  |       |       |       |       |
| CONF 75-67          | 160    | 47.0   | 42.6   | 43.8   | 44.4   | 44.8   | 46.1   | 45.6   | 45.5   | 45.7   | 45.8   | 43.5  |       |       |       |       |
| LCC SCHEENCTADY     | 293    | 39.0   | 41.1   | 41.8   | 43.2   | 44.1   | 47.9   | 46.4   | 46.8   | 46.6   | 47.0   | 44.9  |       |       |       |       |
| DATE 31-16-75       | 290    | 41.0   | 44.3   | 46.7   | 46.6   | 47.5   | 49.5   | 49.1   | 47.7   | 47.3   | 46.3   | 43.7  |       |       |       |       |
| RM 75-19            | 315    | 43.8   | 46.1   | 46.6   | 47.5   | 47.4   | 50.0   | 48.5   | 47.1   | 46.4   | 45.6   | 42.2  |       |       |       |       |
| TAPE X0C033         | 400    | 41.6   | 44.2   | 44.9   | 46.6   | 46.5   | 49.3   | 46.3   | 47.6   | 46.7   | 45.7   | 41.9  |       |       |       |       |
| BAR 30.1 HR         | 500    | 40.7   | 43.0   | 45.0   | 45.9   | 47.3   | 50.1   | 49.6   | 49.9   | 49.0   | 47.2   | 41.5  |       |       |       |       |
| (0.711 N/42)        | 630    | 43.2   | 44.0   | 47.0   | 49.0   | 50.6   | 53.2   | 53.4   | 52.3   | 51.5   | 49.4   | 42.2  |       |       |       |       |
| TAPE 40. DF3 F      | 800    | 43.4   | 45.0   | 46.7   | 48.1   | 49.0   | 52.6   | 51.5   | 51.9   | 50.4   | 48.5   | 40.4  |       |       |       |       |
| (278. DF3 K)        | 1000   | 41.9   | 44.3   | 46.0   | 48.5   | 50.3   | 53.9   | 54.1   | 53.5   | 52.9   | 50.8   | 40.5  |       |       |       |       |
| TMET 33. DF3 F      | 1250   | 43.6   | 45.7   | 48.2   | 50.9   | 52.8   | 56.3   | 56.5   | 56.9   | 57.3   | 55.1   | 44.7  |       |       |       |       |
| (274. DF3 K)        | 1600   | 40.0   | 41.6   | 45.2   | 47.4   | 49.2   | 52.3   | 52.4   | 51.8   | 50.5   | 48.7   | 39.4  |       |       |       |       |
| HACT 2.93 G./K      | 2000   | 35.1   | 41.1   | 44.3   | 46.3   | 47.2   | 50.4   | 50.4   | 50.2   | 49.4   | 48.0   | 37.5  |       |       |       |       |
| (.03293 KR/13)      | 2500   | 44.4   | 46.6   | 50.6   | 53.1   | 55.0   | 58.5   | 60.1   | 62.5   | 61.6   | 58.5   | 45.3  |       |       |       |       |
| NFA 5446. RPM       | 3150   | 43.1   | 46.1   | 48.9   | 51.7   | 54.8   | 58.7   | 59.4   | 60.0   | 59.8   | 55.8   | 43.6  |       |       |       |       |
| ( 570. RAD/SEC)     | 4000   | 42.1   | 46.9   | 48.7   | 52.6   | 54.4   | 58.3   | 58.9   | 60.5   | 60.8   | 54.4   | 41.8  |       |       |       |       |
| KFK 5549. RPM       | 5000   | 39.3   | 42.2   | 45.7   | 49.6   | 51.7   | 55.8   | 56.4   | 56.8   | 55.8   | 50.2   | 38.9  |       |       |       |       |
| ( 581. RAD/SEC)     | 6300   | 37.2   | 40.0   | 43.3   | 46.9   | 50.0   | 54.7   | 54.7   | 54.4   | 54.3   | 49.3   | 35.7  |       |       |       |       |
| KFC 8823. RPM       | 8000   | 34.9   | 38.2   | 42.1   | 46.3   | 48.3   | 52.8   | 52.6   | 54.3   | 51.8   | 47.4   | 32.3  |       |       |       |       |
| ( 924. RAD/SEC)     | 10000  | 31.7   | 35.5   | 39.8   | 45.4   | 47.8   | 51.9   | 52.1   | 51.5   | 50.6   | 43.9   | 27.7  |       |       |       |       |
| NO. OF BLADES 15    | 12500  | 28.2   | 32.9   | 37.9   | 43.6   | 45.8   | 48.3   | 49.3   | 49.7   | 47.6   | 39.5   | 21.9  |       |       |       |       |
| FAN TIP SPEED 16000 | 20000  | 23.1   | 27.9   | 32.1   | 38.9   | 42.4   | 45.3   | 44.6   | 45.2   | 41.8   | 33.6   | 11.5  |       |       |       |       |
| 475. FT/SEC         | 25000  | 18.8   | 22.7   | 27.0   | 35.6   | 38.6   | 42.3   | 41.4   | 39.6   | 36.4   | 29.8   |       |       |       |       |       |
|                     | 30000  | 7.2    | 14.6   | 16.8   | 32.4   | 33.7   | 35.3   | 33.8   | 31.1   | 29.0   | 14.9   |       |       |       |       |       |
|                     | 35000  |        | 1.6    | 7.0    | 21.6   | 22.8   | 24.0   | 22.8   | 18.4   | 10.1   |        |       |       |       |       |       |
|                     | 40000  |        |        |        | 8.2    | 7.5    | 8.3    | 5.7    |        |        |        |       |       |       |       |       |
|                     | 50000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |
|                     | 63000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |
|                     | 80000  |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |
| OVERALL CALCULATED  |        | 56.8   | 58.0   | 60.9   | 63.2   | 64.5   | 67.7   | 67.7   | 68.4   | 67.8   | 64.7   | 55.8  |       |       |       |       |
| PRDB                |        | 66.7   | 69.7   | 72.6   | 75.3   | 77.3   | 81.8   | 81.3   | 82.4   | 81.8   | 77.5   | 66.8  |       |       |       |       |

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL. HUM, DAY)  
 ANGLE FROM INLET IN DEGREES (AND RADIANS)

PRCG, DATE - MONTH DD DAY, 0 HR, 0.6

| PRCG                         | 59     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 143    | 150    | 180   | 210   | 240   | 270   | 300   | 330   | 360   |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| ANGLE                        | (1.02) | (1.09) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.0) | (3.3) | (3.6) | (3.9) | (4.2) | (4.5) | (4.7) |
| RADIAL 17, FT.               | 50     | 53     | 56     | 59     | 62     | 65     | 68     | 71     | 74     | 77     | 80     | 83    | 86    | 89    | 92    | 95    | 98    | 101   |
| ( 5, 4)                      | 100    | 103    | 106    | 109    | 112    | 115    | 118    | 121    | 124    | 127    | 130    | 133   | 136   | 139   | 142   | 145   | 148   | 151   |
| VEHICLE 4-55                 | 125    | 128    | 131    | 134    | 137    | 140    | 143    | 146    | 149    | 152    | 155    | 158   | 161   | 164   | 167   | 170   | 173   | 176   |
| CONFIG 75-67                 | 140    | 143    | 146    | 149    | 152    | 155    | 158    | 161    | 164    | 167    | 170    | 173   | 176   | 179   | 182   | 185   | 188   | 191   |
| LOC SCHEMATIC                | 250    | 253    | 256    | 259    | 262    | 265    | 268    | 271    | 274    | 277    | 280    | 283   | 286   | 289   | 292   | 295   | 298   | 301   |
| DATE 01-16-73                | 250    | 253    | 256    | 259    | 262    | 265    | 268    | 271    | 274    | 277    | 280    | 283   | 286   | 289   | 292   | 295   | 298   | 301   |
| RUN 75-20                    | 315    | 318    | 321    | 324    | 327    | 330    | 333    | 336    | 339    | 342    | 345    | 348   | 351   | 354   | 357   | 360   | 363   | 366   |
| TAPE X00033                  | 400    | 403    | 406    | 409    | 412    | 415    | 418    | 421    | 424    | 427    | 430    | 433   | 436   | 439   | 442   | 445   | 448   | 451   |
| BAR 30-1 MC                  | 500    | 503    | 506    | 509    | 512    | 515    | 518    | 521    | 524    | 527    | 530    | 533   | 536   | 539   | 542   | 545   | 548   | 551   |
| (21711, N/42)                | 630    | 633    | 636    | 639    | 642    | 645    | 648    | 651    | 654    | 657    | 660    | 663   | 666   | 669   | 672   | 675   | 678   | 681   |
| TAMB 40, DEG F               | 600    | 603    | 606    | 609    | 612    | 615    | 618    | 621    | 624    | 627    | 630    | 633   | 636   | 639   | 642   | 645   | 648   | 651   |
| (278, DEG K)                 | 1000   | 1003   | 1006   | 1009   | 1012   | 1015   | 1018   | 1021   | 1024   | 1027   | 1030   | 1033  | 1036  | 1039  | 1042  | 1045  | 1048  | 1051  |
| TMET 37, DEG F               | 1250   | 1253   | 1256   | 1259   | 1262   | 1265   | 1268   | 1271   | 1274   | 1277   | 1280   | 1283  | 1286  | 1289  | 1292  | 1295  | 1298  | 1301  |
| (274, DEG K)                 | 1000   | 1003   | 1006   | 1009   | 1012   | 1015   | 1018   | 1021   | 1024   | 1027   | 1030   | 1033  | 1036  | 1039  | 1042  | 1045  | 1048  | 1051  |
| MACT 2.93 G/M <sup>3</sup>   | 2000   | 2003   | 2006   | 2009   | 2012   | 2015   | 2018   | 2021   | 2024   | 2027   | 2030   | 2033  | 2036  | 2039  | 2042  | 2045  | 2048  | 2051  |
| (.03293, KG/M <sup>3</sup> ) | 2500   | 2503   | 2506   | 2509   | 2512   | 2515   | 2518   | 2521   | 2524   | 2527   | 2530   | 2533  | 2536  | 2539  | 2542  | 2545  | 2548  | 2551  |
| NFA 0211, RPM                | 3150   | 3153   | 3156   | 3159   | 3162   | 3165   | 3168   | 3171   | 3174   | 3177   | 3180   | 3183  | 3186  | 3189  | 3192  | 3195  | 3198  | 3201  |
| ( 050, RAD/SEC)              | 4000   | 4003   | 4006   | 4009   | 4012   | 4015   | 4018   | 4021   | 4024   | 4027   | 4030   | 4033  | 4036  | 4039  | 4042  | 4045  | 4048  | 4051  |
| NFK 0320, RPM                | 5000   | 5003   | 5006   | 5009   | 5012   | 5015   | 5018   | 5021   | 5024   | 5027   | 5030   | 5033  | 5036  | 5039  | 5042  | 5045  | 5048  | 5051  |
| ( 003, RAD/SEC)              | 6300   | 6303   | 6306   | 6309   | 6312   | 6315   | 6318   | 6321   | 6324   | 6327   | 6330   | 6333  | 6336  | 6339  | 6342  | 6345  | 6348  | 6351  |
| NFD 0023, RPM                | 8000   | 8003   | 8006   | 8009   | 8012   | 8015   | 8018   | 8021   | 8024   | 8027   | 8030   | 8033  | 8036  | 8039  | 8042  | 8045  | 8048  | 8051  |
| ( 024, RAD/SEC)              | 10000  | 10003  | 10006  | 10009  | 10012  | 10015  | 10018  | 10021  | 10024  | 10027  | 10030  | 10033 | 10036 | 10039 | 10042 | 10045 | 10048 | 10051 |
| NO. OF BLADES 15             | 12500  | 12503  | 12506  | 12509  | 12512  | 12515  | 12518  | 12521  | 12524  | 12527  | 12530  | 12533 | 12536 | 12539 | 12542 | 12545 | 12548 | 12551 |
| FAN TIP SPEED                | 16000  | 16003  | 16006  | 16009  | 16012  | 16015  | 16018  | 16021  | 16024  | 16027  | 16030  | 16033 | 16036 | 16039 | 16042 | 16045 | 16048 | 16051 |
| 542, FT/SEC                  | 23000  | 23003  | 23006  | 23009  | 23012  | 23015  | 23018  | 23021  | 23024  | 23027  | 23030  | 23033 | 23036 | 23039 | 23042 | 23045 | 23048 | 23051 |
|                              | 25000  | 25003  | 25006  | 25009  | 25012  | 25015  | 25018  | 25021  | 25024  | 25027  | 25030  | 25033 | 25036 | 25039 | 25042 | 25045 | 25048 | 25051 |
|                              | 31900  | 31903  | 31906  | 31909  | 31912  | 31915  | 31918  | 31921  | 31924  | 31927  | 31930  | 31933 | 31936 | 31939 | 31942 | 31945 | 31948 | 31951 |
|                              | 40000  | 40003  | 40006  | 40009  | 40012  | 40015  | 40018  | 40021  | 40024  | 40027  | 40030  | 40033 | 40036 | 40039 | 40042 | 40045 | 40048 | 40051 |
|                              | 50000  | 50003  | 50006  | 50009  | 50012  | 50015  | 50018  | 50021  | 50024  | 50027  | 50030  | 50033 | 50036 | 50039 | 50042 | 50045 | 50048 | 50051 |
|                              | 63000  | 63003  | 63006  | 63009  | 63012  | 63015  | 63018  | 63021  | 63024  | 63027  | 63030  | 63033 | 63036 | 63039 | 63042 | 63045 | 63048 | 63051 |
|                              | 80000  | 80003  | 80006  | 80009  | 80012  | 80015  | 80018  | 80021  | 80024  | 80027  | 80030  | 80033 | 80036 | 80039 | 80042 | 80045 | 80048 | 80051 |
| OVERALL MEASURED             |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |
| OVERALL CALCULATED           | 86.2   | 88.9   | 90.2   | 92.0   | 93.9   | 94.2   | 96.0   | 99.0   | 99.9   | 97.1   | 92.5   |       |       |       |       |       |       |       |
| PNCR                         | 101.0  | 104.2  | 105.4  | 107.0  | 108.7  | 109.6  | 112.3  | 113.9  | 113.9  | 111.3  | 106.5  |       |       |       |       |       |       |       |

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)  
 PROC. DATE - MONTH DD DAY @ HR: @  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53.    | 67.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 149.   | 159.   | 169.   | 180.   | 190.   | 200.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ.              | (0.92) | (1.08) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.94) | (3.16) | (3.38) | (3.60) |
| SIDELINE 250 FT    | 60     | 48.8   | 44.3   | 47.9   | 54.3   | 54.7   | 59.0   | 51.0   | 49.0   | 51.7   | 51.0   | 49.0   |        |        |        |
| ( 69.95 M)         | 100    | 53.2   | 53.7   | 52.2   | 51.3   | 49.9   | 50.0   | 47.8   | 45.7   | 47.4   | 48.1   | 48.8   |        |        |        |
| VEHICLE R-55       | 125    | 48.2   | 47.3   | 49.9   | 49.0   | 50.4   | 49.5   | 48.0   | 56.7   | 49.3   | 49.5   | 48.5   |        |        |        |
| CCAFIS 75-60       | 160    | 43.8   | 45.3   | 46.0   | 47.9   | 48.3   | 48.9   | 49.1   | 49.5   | 49.7   | 50.0   | 48.0   |        |        |        |
| LOC SCHEMECTADY    | 200    | 43.0   | 44.1   | 45.5   | 46.7   | 48.3   | 51.0   | 50.4   | 51.0   | 50.9   | 51.2   | 49.1   |        |        |        |
| DATE 01-16-75      | 250    | 45.7   | 47.5   | 49.4   | 50.3   | 51.0   | 52.0   | 52.1   | 51.7   | 51.3   | 50.4   | 47.7   |        |        |        |
| RUN 75-20          | 315    | 47.3   | 49.1   | 49.9   | 51.0   | 51.1   | 53.5   | 52.2   | 51.1   | 50.4   | 49.9   | 48.5   |        |        |        |
| TAPE X07033        | 400    | 45.4   | 47.7   | 48.2   | 49.8   | 50.5   | 52.5   | 51.5   | 51.6   | 50.7   | 49.9   | 48.4   |        |        |        |
| BAR 30.1 KC        | 500    | 44.2   | 46.6   | 48.0   | 49.7   | 50.8   | 53.1   | 53.3   | 53.0   | 52.5   | 50.9   | 45.8   |        |        |        |
| (C1 11. N/42)      | 630    | 46.7   | 46.0   | 50.3   | 52.5   | 54.3   | 56.9   | 56.9   | 56.0   | 54.8   | 52.7   | 45.7   |        |        |        |
| YAMB 40. DEG F     | 800    | 48.9   | 47.7   | 49.5   | 51.4   | 52.5   | 55.1   | 55.0   | 54.9   | 53.6   | 51.3   | 43.9   |        |        |        |
| (278. DEG K)       | 1000   | 45.4   | 47.0   | 49.0   | 51.5   | 53.1   | 56.4   | 56.6   | 56.7   | 55.9   | 53.3   | 43.8   |        |        |        |
| YMET 33. DEG F     | 1250   | 45.8   | 45.7   | 46.2   | 51.4   | 53.8   | 56.9   | 55.8   | 55.4   | 55.1   | 53.1   | 43.5   |        |        |        |
| (274. DEG K)       | 1600   | 48.2   | 47.0   | 52.7   | 58.2   | 61.2   | 64.3   | 62.4   | 59.3   | 58.0   | 54.5   | 43.1   |        |        |        |
| NACT 2.93 GM/MS    | 2000   | 43.1   | 44.8   | 48.8   | 50.1   | 51.4   | 53.7   | 53.9   | 53.7   | 53.6   | 50.3   | 39.5   |        |        |        |
| (.00293 KG/MS)     | 2500   | 48.1   | 49.8   | 52.1   | 54.6   | 56.7   | 59.0   | 59.1   | 60.0   | 59.8   | 59.0   | 44.0   |        |        |        |
| SFA 0211. DB       | 3150   | 55.9   | 61.6   | 63.4   | 64.7   | 66.3   | 65.2   | 69.4   | 70.2   | 67.0   | 61.3   | 50.3   |        |        |        |
| ( 55.0. RAD/SEC)   | 4000   | 45.9   | 48.4   | 51.7   | 54.6   | 57.9   | 61.6   | 62.2   | 62.0   | 61.3   | 55.1   | 43.5   |        |        |        |
| NPK 0328. RPM      | 5000   | 44.6   | 47.4   | 51.2   | 55.4   | 58.9   | 61.3   | 61.9   | 62.9   | 60.2   | 53.7   | 42.9   |        |        |        |
| ( 063. RAD/SEC)    | 6300   | 41.2   | 44.5   | 47.6   | 52.6   | 55.8   | 57.9   | 58.7   | 59.1   | 57.6   | 51.1   | 39.0   |        |        |        |
| RFD 8823. RPM      | 8000   | 39.5   | 42.7   | 46.4   | 50.3   | 53.1   | 56.3   | 56.8   | 58.8   | 56.8   | 49.7   | 35.7   |        |        |        |
| ( 924. RAD/SEC)    | 10000  | 38.2   | 40.5   | 43.0   | 48.2   | 50.6   | 54.2   | 55.9   | 58.7   | 54.8   | 45.9   | 31.2   |        |        |        |
| NO. OF BLADES IS   | 12500  | 33.2   | 36.9   | 42.0   | 45.6   | 48.1   | 52.1   | 53.3   | 55.7   | 51.4   | 42.9   | 28.0   |        |        |        |
| FAN TIP SPEED      | 18000  | 27.1   | 31.4   | 37.1   | 40.9   | 43.4   | 48.8   | 47.9   | 48.4   | 48.6   | 34.9   | 19.0   |        |        |        |
| 542. FT/SEC        | 25000  | 23.1   | 27.2   | 32.0   | 35.9   | 38.1   | 43.5   | 43.6   | 43.8   | 40.7   | 27.6   | 2.9    |        |        |        |
|                    | 25000  | 11.9   | 16.3   | 23.5   | 27.9   | 32.2   | 36.0   | 35.5   | 34.3   | 30.0   | 15.8   |        |        |        |        |
|                    | 31500  |        | 6.8    | 11.7   | 18.1   | 21.5   | 24.7   | 23.6   | 22.1   | 14.6   |        |        |        |        |        |
|                    | 40000  |        |        |        |        | 3.2    | 7.0    | 6.2    | 0.9    |        |        |        |        |        |        |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |        | 69.6   | 64.2   | 66.1   | 68.2   | 70.1   | 71.7   | 72.9   | 73.2   | 71.2   | 66.8   | 59.5   |        |        |        |
| PMDB               |        | 74.8   | 79.2   | 81.3   | 83.4   | 85.2   | 85.9   | 88.1   | 88.8   | 86.3   | 81.4   | 71.6   |        |        |        |

|                    | FREQ. | 55.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 168.  | 180.  | 192.  | 204.  | 216.  | 228.  | 240.  | 252.  | 264.  | 276.  | 288.  | 300.  | PHL   |  |
|--------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|                    |       | (3.92) | (1.75) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) | (3.0) |       |  |
|                    | 50    |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|                    | 63    |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| RADIAL 17. FT.     | 80    | 72.9   | 68.2   | 71.0   | 76.2   | 76.7   | 78.0   | 75.0   | 74.2   | 77.2   | 80.3   | 82.7   |       |       |       |       |       |       |       |       |       |       |       |       | 110.0 |  |
| ( S. 4)            | 100   | 67.9   | 72.2   | 73.0   | 71.8   | 71.0   | 72.5   | 70.8   | 71.3   | 74.5   | 79.1   | 82.7   |       |       |       |       |       |       |       |       |       |       |       |       | 108.7 |  |
| VEHICLE 3-55       | 125   | 75.5   | 79.3   | 83.1   | 77.6   | 75.8   | 75.8   | 73.8   | 76.3   | 77.8   | 79.9   | 82.5   |       |       |       |       |       |       |       |       |       |       |       |       | 112.0 |  |
| CONFIG 75-60       | 160   | 71.7   | 71.5   | 71.8   | 72.3   | 72.3   | 74.0   | 75.0   | 76.8   | 77.5   | 80.6   | 82.7   |       |       |       |       |       |       |       |       |       |       |       |       | 110.1 |  |
| LDC SCHEMESTADV    | 200   | 70.5   | 70.1   | 70.6   | 71.6   | 72.9   | 76.6   | 76.3   | 77.9   | 79.1   | 81.7   | 83.5   |       |       |       |       |       |       |       |       |       |       |       |       | 111.2 |  |
| DATE 01-16-75      | 250   | 74.0   | 74.0   | 75.3   | 75.8   | 76.6   | 78.6   | 78.6   | 79.1   | 80.4   | 81.7   | 83.0   |       |       |       |       |       |       |       |       |       |       |       |       | 112.6 |  |
| RUN 75-21          | 315   | 76.3   | 75.3   | 75.1   | 75.9   | 76.1   | 78.1   | 77.6   | 77.9   | 78.6   | 80.7   | 81.8   |       |       |       |       |       |       |       |       |       |       |       |       | 111.8 |  |
| TAPE XJ0033        | 400   | 73.7   | 73.5   | 73.8   | 74.5   | 74.8   | 77.8   | 76.5   | 78.3   | 78.8   | 80.4   | 80.7   |       |       |       |       |       |       |       |       |       |       |       |       | 111.2 |  |
| BAR 30.1 HG        | 500   | 73.6   | 72.6   | 73.2   | 74.7   | 75.7   | 78.7   | 78.9   | 79.9   | 80.7   | 81.8   | 80.6   |       |       |       |       |       |       |       |       |       |       |       |       | 112.2 |  |
| (G1 711, N/42)     | 630   | 74.2   | 73.8   | 76.1   | 77.3   | 78.8   | 81.8   | 81.5   | 82.4   | 82.4   | 82.7   | 80.8   |       |       |       |       |       |       |       |       |       |       |       |       | 114.3 |  |
| YAMB 40. DEG F     | 800   | 74.3   | 74.3   | 75.6   | 76.6   | 77.6   | 80.6   | 80.3   | 81.7   | 81.9   | 81.7   | 79.3   |       |       |       |       |       |       |       |       |       |       |       |       | 113.5 |  |
| (279. DEG K)       | 1000  | 72.7   | 73.8   | 74.3   | 76.6   | 78.1   | 81.8   | 81.8   | 82.6   | 83.4   | 82.4   | 79.2   |       |       |       |       |       |       |       |       |       |       |       |       | 114.3 |  |
| TNET 33. DEG F     | 1250  | 71.6   | 71.9   | 73.6   | 75.9   | 77.6   | 81.1   | 81.8   | 82.7   | 83.5   | 83.3   | 79.6   |       |       |       |       |       |       |       |       |       |       |       |       | 114.3 |  |
| (274. DEG K)       | 1600  | 72.2   | 73.2   | 75.3   | 76.8   | 78.5   | 81.5   | 81.7   | 82.1   | 82.4   | 81.7   | 77.9   |       |       |       |       |       |       |       |       |       |       |       |       | 113.9 |  |
| HACT 2.93 G/M3     | 2000  | 71.6   | 72.4   | 74.4   | 76.7   | 77.4   | 80.6   | 81.1   | 82.9   | 83.0   | 81.8   | 77.5   |       |       |       |       |       |       |       |       |       |       |       |       | 113.8 |  |
| (.00293 KG/M3)     | 2500  | 74.1   | 74.9   | 76.8   | 79.7   | 81.9   | 85.0   | 85.0   | 87.2   | 88.0   | 85.6   | 79.7   |       |       |       |       |       |       |       |       |       |       |       |       | 118.0 |  |
| NFA 7000. RPM      | 3150  | 77.6   | 78.9   | 81.9   | 85.2   | 88.4   | 91.3   | 91.0   | 92.7   | 94.5   | 89.2   | 84.3   |       |       |       |       |       |       |       |       |       |       |       |       | 123.0 |  |
| ( 733. RAD/SEC)    | 4000  | 76.2   | 78.2   | 80.7   | 83.8   | 86.7   | 90.3   | 91.3   | 92.8   | 92.8   | 88.2   | 83.3   |       |       |       |       |       |       |       |       |       |       |       |       | 123.0 |  |
| NFK 7132. RPM      | 5000  | 74.0   | 75.8   | 77.9   | 81.6   | 84.0   | 88.3   | 90.8   | 91.8   | 90.1   | 85.8   | 80.3   |       |       |       |       |       |       |       |       |       |       |       |       | 121.3 |  |
| ( 747. RAD/SEC)    | 6300  | 71.9   | 74.3   | 76.8   | 79.3   | 81.5   | 86.9   | 88.1   | 89.0   | 89.7   | 85.1   | 78.9   |       |       |       |       |       |       |       |       |       |       |       |       | 119.6 |  |
| NFD 8823. RPM      | 9000  | 71.4   | 74.4   | 76.7   | 79.8   | 81.9   | 86.7   | 87.9   | 90.3   | 90.4   | 85.6   | 79.2   |       |       |       |       |       |       |       |       |       |       |       |       | 120.5 |  |
| ( 924. RAD/SEC)    | 11000 | 73.8   | 72.6   | 76.3   | 79.5   | 80.9   | 86.0   | 87.8   | 89.7   | 90.6   | 85.2   | 79.1   |       |       |       |       |       |       |       |       |       |       |       |       | 120.1 |  |
| NO. OF BLADES 15   | 12900 | 73.4   | 72.8   | 76.5   | 78.6   | 81.6   | 85.6   | 87.9   | 90.3   | 91.2   | 85.8   | 78.7   |       |       |       |       |       |       |       |       |       |       |       |       | 120.7 |  |
| FAN TIP SPEED      | 16000 | 69.2   | 71.4   | 74.7   | 77.6   | 79.6   | 84.3   | 86.6   | 89.3   | 90.3   | 84.8   | 77.6   |       |       |       |       |       |       |       |       |       |       |       |       | 119.0 |  |
| 611. FT/SEC        | 20000 | 69.4   | 72.1   | 75.2   | 77.9   | 80.2   | 85.1   | 87.7   | 90.6   | 91.5   | 86.3   | 78.2   |       |       |       |       |       |       |       |       |       |       |       |       | 121.3 |  |
|                    | 25000 | 68.0   | 71.0   | 74.1   | 76.5   | 80.1   | 84.8   | 86.9   | 89.2   | 91.1   | 86.1   | 78.0   |       |       |       |       |       |       |       |       |       |       |       |       | 121.4 |  |
|                    | 31500 | 67.2   | 70.4   | 73.6   | 76.7   | 79.1   | 84.1   | 86.4   | 88.4   | 89.1   | 83.8   | 75.5   |       |       |       |       |       |       |       |       |       |       |       |       | 121.1 |  |
|                    | 40000 | 65.8   | 68.4   | 70.6   | 74.1   | 76.8   | 81.4   | 83.9   | 85.4   | 86.0   | 82.1   | 71.1   |       |       |       |       |       |       |       |       |       |       |       |       | 119.9 |  |
|                    | 50000 | 62.3   | 63.6   | 63.9   | 66.3   | 69.7   | 73.9   | 77.2   | 77.8   | 78.2   | 75.9   | 64.3   |       |       |       |       |       |       |       |       |       |       |       |       | 114.2 |  |
|                    | 63000 | 59.5   | 59.8   | 58.2   | 57.5   | 59.5   | 62.6   | 66.3   | 67.2   | 67.0   | 63.8   | 57.2   |       |       |       |       |       |       |       |       |       |       |       |       | 108.3 |  |
|                    | 80000 | 65.7   | 66.1   | 63.9   | 62.8   | 62.6   | 64.8   | 64.8   | 63.8   | 62.1   | 62.2   | 62.9   |       |       |       |       |       |       |       |       |       |       |       |       | 118.7 |  |
| OVERALL MEASURED   |       |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| OVERALL CALCULATED |       | 87.5   | 88.6   | 90.6   | 92.9   | 95.1   | 98.9   | 100.8  | 101.7  | 102.5  | 98.6   | 99.2   |       |       |       |       |       |       |       |       |       |       |       |       | 102.0 |  |
| PNDB               |       | 106.4  | 101.5  | 103.9  | 100.6  | 100.9  | 112.2  | 112.5  | 113.8  | 115.8  | 111.4  | 107.9  |       |       |       |       |       |       |       |       |       |       |       |       |       |  |

PAGE 2 OF 2

MODEL SOUND PRESSURE LEVELS (59, DEG. F., 70 PERCENT REL. HUM., DAY) P3DC, DATE - MONTH 02 DAY 0 HR. 0.4

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 53.    | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 143.   | 154.   | 165.   | 176.   | 187.   | 198.   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FREQ.              | (0.92) | (1.06) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.95) | (3.18) | (3.42) | (3.67) |
| SIDELINE 270. FT.  | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     | 63     |
| ( 83.95 4)         | 49.3   | 49.3   | 49.9   | 54.6   | 55.2   | 56.3   | 52.8   | 51.2   | 52.9   | 53.9   | 52.8   | 52.8   | 52.8   | 52.8   | 52.8   |
| VEHICLE 2-55       | 100    | 44.2   | 49.5   | 52.9   | 50.1   | 49.4   | 50.8   | 48.5   | 48.2   | 50.1   | 52.4   | 52.7   | 52.7   | 52.7   | 52.7   |
| COYFIG 75-60       | 125    | 51.7   | 56.9   | 57.9   | 55.8   | 54.2   | 54.0   | 51.5   | 53.2   | 53.3   | 53.2   | 52.3   | 52.3   | 52.3   | 52.3   |
| LOC SCHEMECTADY    | 160    | 47.8   | 48.6   | 49.5   | 50.4   | 50.5   | 52.1   | 52.6   | 52.8   | 52.9   | 53.9   | 52.3   | 52.3   | 52.3   | 52.3   |
| DATE 31-15-75      | 200    | 46.5   | 47.1   | 48.3   | 48.7   | 51.1   | 54.8   | 53.9   | 54.3   | 54.4   | 54.7   | 52.9   | 52.9   | 52.9   | 52.9   |
| HJV 75-21          | 250    | 49.9   | 51.0   | 52.9   | 53.8   | 54.7   | 56.5   | 56.1   | 55.7   | 55.5   | 54.4   | 52.2   | 52.2   | 52.2   | 52.2   |
| TAPE W93033        | 300    | 48.4   | 50.2   | 51.2   | 52.3   | 52.7   | 55.5   | 53.8   | 54.6   | 53.7   | 53.9   | 49.4   | 49.4   | 49.4   | 49.4   |
| BAQ 30-1 M3        | 350    | 49.2   | 49.2   | 50.5   | 52.4   | 53.5   | 56.4   | 56.1   | 56.2   | 55.5   | 54.2   | 49.6   | 49.6   | 49.6   | 49.6   |
| ( 1711. N/42)      | 400    | 47.7   | 50.3   | 53.3   | 55.0   | 56.6   | 59.4   | 58.8   | 58.5   | 57.0   | 54.0   | 48.9   | 48.9   | 48.9   | 48.9   |
| TAH9 40. DEG F     | 800    | 49.6   | 50.7   | 52.7   | 54.1   | 55.3   | 58.1   | 57.3   | 57.7   | 56.4   | 53.8   | 47.2   | 47.2   | 47.2   | 47.2   |
| (278. DEG K)       | 1000   | 47.9   | 50.0   | 51.3   | 54.0   | 55.6   | 59.2   | 58.6   | 58.5   | 57.7   | 54.3   | 46.8   | 46.8   | 46.8   | 46.8   |
| TWEY 33. DEG F     | 1250   | 46.6   | 47.9   | 50.5   | 53.2   | 55.0   | 58.3   | 58.5   | 58.4   | 57.6   | 54.9   | 46.7   | 46.7   | 46.7   | 46.7   |
| (274. DEG K)       | 1500   | 47.3   | 49.1   | 51.9   | 53.9   | 55.7   | 58.5   | 58.2   | 57.6   | 56.2   | 53.8   | 44.6   | 44.6   | 44.6   | 44.6   |
| MACT 2.63 GW/M3    | 2000   | 48.1   | 48.1   | 51.6   | 53.6   | 54.4   | 57.4   | 57.4   | 58.2   | 56.6   | 52.8   | 43.8   | 43.8   | 43.8   | 43.8   |
| (.00293 KG/M3)     | 2500   | 48.4   | 50.3   | 53.1   | 56.4   | 58.7   | 61.7   | 61.1   | 62.2   | 61.3   | 58.9   | 45.5   | 45.5   | 45.5   | 45.5   |
| WPA 7000. RPM      | 3150   | 51.6   | 54.1   | 57.9   | 61.7   | 65.0   | 67.7   | 68.9   | 67.3   | 67.5   | 59.3   | 49.3   | 49.3   | 49.3   | 49.3   |
| ( 733. RAD/SEC)    | 4000   | 47.6   | 52.9   | 58.2   | 59.8   | 62.9   | 66.3   | 66.7   | 66.5   | 65.3   | 57.6   | 47.3   | 47.3   | 47.3   | 47.3   |
| NFK 7132. RPM      | 5000   | 47.1   | 50.2   | 53.2   | 57.4   | 59.9   | 64.1   | 65.9   | 65.8   | 62.2   | 54.7   | 43.6   | 43.6   | 43.6   | 43.6   |
| ( 747. RAD/SEC)    | 6000   | 44.2   | 48.0   | 51.3   | 54.4   | 56.7   | 61.9   | 62.4   | 62.1   | 60.8   | 52.3   | 46.5   | 46.5   | 46.5   | 46.5   |
| WFO 8823. RPM      | 8000   | 42.3   | 46.7   | 50.1   | 53.8   | 56.1   | 60.6   | 61.1   | 62.3   | 60.0   | 51.9   | 38.0   | 38.0   | 38.0   | 38.0   |
| ( 924. RAD/SEC)    | 10000  | 39.7   | 43.3   | 48.1   | 51.9   | 53.6   | 58.4   | 59.4   | 59.7   | 58.1   | 48.4   | 33.9   | 33.9   | 33.9   | 33.9   |
| NO. OF BLADES 15   | 12000  | 36.5   | 40.9   | 46.0   | 48.8   | 52.1   | 55.8   | 57.1   | 57.9   | 55.6   | 44.2   | 27.7   | 27.7   | 27.7   | 27.7   |
| FAN TIP SPEED      | 16000  | 31.6   | 35.4   | 40.3   | 44.2   | 46.4   | 50.8   | 51.9   | 52.4   | 49.6   | 36.7   | 17.2   | 17.2   | 17.2   | 17.2   |
| 611. FT/SEC        | 20000  | 24.8   | 30.7   | 35.8   | 39.6   | 42.3   | 46.8   | 47.9   | 48.1   | 44.2   | 30.4   | 9.4    | 9.4    | 9.4    | 9.4    |
|                    | 25000  | 14.7   | 21.8   | 27.5   | 31.4   | 35.5   | 39.5   | 39.8   | 38.6   | 34.3   | 18.2   |        |        |        |        |
|                    | 31500  | 1.1    | 9.8    | 16.5   | 21.6   | 24.5   | 28.7   | 28.6   | 23.9   | 18.3   |        |        |        |        |        |
|                    | 40000  |        |        |        | 3.9    | 7.5    | 11.0   | 10.2   | 5.2    |        |        |        |        |        |        |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 63500  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED |        | 62.8   | 64.0   | 66.4   | 68.8   | 70.9   | 74.0   | 74.1   | 74.2   | 73.1   | 68.6   | 62.7   | 62.7   | 62.7   | 62.7   |
| PNDB               |        | 74.2   | 78.8   | 79.7   | 82.9   | 85.5   | 88.5   | 88.1   | 88.4   | 87.8   | 81.5   | 72.7   | 72.7   | 72.7   | 72.7   |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY) 0.6

PROC. DATE - MONTH IS DAY 0 HR. 0.6

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ. (0.92)(1.08)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(3.00)(3.30)(3.60)(4.00)(4.50)(5.00)

|                    | 53    | 62    | 71    | 81    | 91    | 101   | 111   | 122   | 133   | 145   | 156   |      |  |  |  |  |  |  |  |  |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--|--|--|--|--|--|--|--|-------|
| RADIAL 17, FT.     | 83    | 72.9  | 69.2  | 71.5  | 76.0  | 76.7  | 78.2  | 76.0  | 76.2  | 78.7  | 82.3  | 85.7 |  |  |  |  |  |  |  |  | 112.3 |
| ( 5. )             | 100   | 67.7  | 71.3  | 72.5  | 72.5  | 73.0  | 75.3  | 73.0  | 74.3  | 77.8  | 82.4  | 86.5 |  |  |  |  |  |  |  |  | 111.6 |
| VEHICLE R-55       | 125   | 78.0  | 77.8  | 77.3  | 75.6  | 76.6  | 77.8  | 78.1  | 79.6  | 80.3  | 83.2  | 86.3 |  |  |  |  |  |  |  |  | 113.7 |
| CONFIG 75-63       | 160   | 73.7  | 74.2  | 74.8  | 74.8  | 74.8  | 76.0  | 77.5  | 79.0  | 80.8  | 83.6  | 86.5 |  |  |  |  |  |  |  |  | 113.2 |
| LJC SCHEMECTADY    | 210   | 72.5  | 72.3  | 73.6  | 74.1  | 76.1  | 79.8  | 79.8  | 80.6  | 82.4  | 84.9  | 87.3 |  |  |  |  |  |  |  |  | 114.4 |
| DATE 01-16-73      | 250   | 78.2  | 78.0  | 80.6  | 81.1  | 81.3  | 83.8  | 83.8  | 84.1  | 84.6  | 86.0  | 87.3 |  |  |  |  |  |  |  |  | 117.4 |
| RUN 75-22          | 315   | 77.3  | 77.0  | 78.3  | 78.1  | 78.9  | 81.1  | 79.8  | 80.9  | 81.6  | 83.0  | 85.5 |  |  |  |  |  |  |  |  | 114.7 |
| TAPE XCO033        | 400   | 75.9  | 76.5  | 76.5  | 77.0  | 78.0  | 80.3  | 80.0  | 80.8  | 81.5  | 83.4  | 84.4 |  |  |  |  |  |  |  |  | 114.1 |
| BAR 30.1 HG        | 500   | 74.1  | 75.4  | 75.4  | 76.9  | 77.9  | 81.4  | 81.8  | 82.4  | 83.2  | 84.3  | 84.1 |  |  |  |  |  |  |  |  | 114.8 |
| (01711, N/42)      | 600   | 76.5  | 76.3  | 78.3  | 79.3  | 81.1  | 83.8  | 84.3  | 84.4  | 84.9  | 85.4  | 83.8 |  |  |  |  |  |  |  |  | 110.7 |
| TAMB 40. DEG F     | 800   | 77.0  | 76.3  | 77.9  | 79.1  | 80.1  | 83.4  | 83.1  | 84.2  | 84.4  | 84.2  | 82.8 |  |  |  |  |  |  |  |  | 116.1 |
| (278, DEG K)       | 1000  | 75.2  | 76.3  | 77.1  | 78.8  | 80.3  | 83.8  | 83.5  | 84.4  | 85.4  | 84.2  | 82.0 |  |  |  |  |  |  |  |  | 111.3 |
| TMET 33. DEG F     | 1250  | 74.1  | 74.6  | 76.4  | 78.7  | 80.1  | 83.1  | 83.8  | 83.7  | 85.0  | 84.5  | 81.6 |  |  |  |  |  |  |  |  | 119.0 |
| (274, DEG K)       | 1600  | 73.9  | 75.7  | 76.0  | 77.8  | 79.3  | 82.7  | 82.9  | 83.3  | 83.4  | 82.4  | 80.4 |  |  |  |  |  |  |  |  | 119.1 |
| MACT 2.93 GW/43    | 2000  | 77.8  | 77.9  | 80.9  | 80.7  | 81.6  | 86.1  | 89.6  | 91.2  | 91.0  | 86.4  | 82.5 |  |  |  |  |  |  |  |  | 120.9 |
| (.00293, KG/43)    | 2500  | 77.3  | 78.1  | 80.6  | 82.9  | 85.1  | 87.8  | 88.7  | 90.4  | 92.5  | 86.3  | 82.2 |  |  |  |  |  |  |  |  | 121.4 |
| NFA 7772. RPM      | 3150  | 77.9  | 79.2  | 82.1  | 85.2  | 87.7  | 91.3  | 91.3  | 92.0  | 94.3  | 88.7  | 83.8 |  |  |  |  |  |  |  |  | 123.6 |
| ( 614, RAD/SEC)    | 4000  | 82.9  | 83.2  | 87.4  | 92.3  | 93.2  | 94.3  | 95.6  | 98.3  | 96.6  | 92.0  | 88.0 |  |  |  |  |  |  |  |  | 120.8 |
| KFR 7918. RPM      | 5000  | 76.5  | 78.3  | 81.2  | 84.1  | 86.7  | 90.8  | 92.6  | 92.3  | 91.6  | 87.0  | 82.0 |  |  |  |  |  |  |  |  | 123.1 |
| ( 829, RAD/SEC)    | 6300  | 74.9  | 77.3  | 79.8  | 83.0  | 85.8  | 90.4  | 92.3  | 92.5  | 92.0  | 86.4  | 81.2 |  |  |  |  |  |  |  |  | 122.9 |
| NFD 8823. RPM      | 8000  | 74.4  | 77.4  | 80.0  | 83.0  | 85.4  | 90.7  | 91.6  | 93.0  | 93.7  | 88.1  | 82.0 |  |  |  |  |  |  |  |  | 123.5 |
| ( 924, RAD/SEC)    | 10000 | 74.5  | 76.6  | 80.0  | 82.7  | 84.9  | 89.5  | 91.8  | 92.9  | 93.6  | 87.3  | 81.1 |  |  |  |  |  |  |  |  | 123.4 |
| NO. OF BLADES 15   | 12500 | 74.6  | 76.3  | 79.8  | 82.4  | 85.4  | 89.1  | 92.6  | 93.8  | 94.2  | 87.8  | 80.3 |  |  |  |  |  |  |  |  | 124.1 |
| FAN TIP SPEED      | 16000 | 72.7  | 75.2  | 79.2  | 80.9  | 83.6  | 87.8  | 90.1  | 92.6  | 92.8  | 86.4  | 80.3 |  |  |  |  |  |  |  |  | 122.9 |
| 678. FT/SEC        | 20000 | 72.7  | 75.2  | 79.7  | 81.6  | 84.2  | 89.6  | 91.4  | 93.6  | 94.5  | 89.3  | 81.7 |  |  |  |  |  |  |  |  | 124.8 |
|                    | 25000 | 72.5  | 75.5  | 78.6  | 80.5  | 83.6  | 89.0  | 91.1  | 94.0  | 95.1  | 90.3  | 82.0 |  |  |  |  |  |  |  |  | 125.6 |
|                    | 31500 | 73.7  | 74.7  | 77.3  | 80.0  | 82.8  | 87.8  | 89.6  | 92.4  | 92.8  | 87.6  | 79.0 |  |  |  |  |  |  |  |  | 124.8 |
|                    | 40000 | 68.8  | 72.4  | 74.4  | 77.6  | 80.3  | 85.4  | 87.4  | 89.1  | 90.3  | 84.9  | 74.6 |  |  |  |  |  |  |  |  | 123.5 |
|                    | 50000 | 54.1  | 66.3  | 67.6  | 69.8  | 73.2  | 77.6  | 81.8  | 81.8  | 82.4  | 79.2  | 67.8 |  |  |  |  |  |  |  |  | 118.1 |
|                    | 63000 | 59.5  | 59.8  | 58.2  | 60.2  | 62.5  | 66.6  | 70.3  | 71.0  | 71.0  | 67.5  | 58.4 |  |  |  |  |  |  |  |  | 109.9 |
|                    | 80000 | 65.7  | 66.1  | 63.9  | 62.8  | 62.6  | 64.8  | 64.0  | 63.3  | 62.1  | 62.2  | 62.5 |  |  |  |  |  |  |  |  | 118.7 |
| OVERALL MEASURED   |       |       |       |       |       |       |       |       |       |       |       |      |  |  |  |  |  |  |  |  |       |
| OVERALL CALCULATED | 90.3  | 91.4  | 93.9  | 94.8  | 96.5  | 101.9 | 103.5 | 105.2 | 105.6 | 101.1 | 98.5  |      |  |  |  |  |  |  |  |  | 126.2 |
| P438               | 104.2 | 104.9 | 108.0 | 111.4 | 112.7 | 115.1 | 116.1 | 117.9 | 117.4 | 113.8 | 111.8 |      |  |  |  |  |  |  |  |  |       |

DATE: 01-16-73

MODEL SOUND PRESSURE LEVELS (59' DEG. F, 70 PERCENT REL. HUM, DAY)  
 PROC. DATE - MONTH, DAY, HR, MIN, SEC  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | FREQ. | 53     | 62     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 145    | 156    | 167    | 178    | 189    | 200    |
|---------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                     |       | (0.92) | (1.00) | (1.12) | (1.24) | (1.38) | (1.53) | (1.70) | (1.89) | (2.10) | (2.32) | (2.55) | (2.79) | (3.04) | (3.30) | (3.57) |
| SIDELINE 200 FT:    | 50    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ( 60.05 M)          | 63    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE R-55        | 80    | 49.3   | 46.5   | 49.4   | 54.3   | 59.2   | 56.5   | 53.0   | 53.2   | 54.4   | 55.9   | 55.0   |        |        |        |        |
| COYFIG 75-60        | 100   | 44.0   | 48.2   | 50.4   | 50.8   | 51.4   | 53.5   | 51.5   | 51.2   | 53.4   | 55.8   | 56.4   |        |        |        |        |
| LCC SCHEMERTAD      | 125   | 52.2   | 55.0   | 55.1   | 54.0   | 54.9   | 56.0   | 55.8   | 56.4   | 55.8   | 56.5   | 56.0   |        |        |        |        |
| DATE 81-16-75       | 160   | 49.8   | 51.3   | 52.5   | 52.9   | 53.0   | 54.9   | 55.1   | 55.8   | 56.2   | 56.8   | 56.0   |        |        |        |        |
| RUN 75-22           | 200   | 49.5   | 49.3   | 51.3   | 52.2   | 54.3   | 57.6   | 57.1   | 57.3   | 57.6   | 58.8   | 56.6   |        |        |        |        |
| TYPE YOC033         | 250   | 54.2   | 55.7   | 58.2   | 59.1   | 59.5   | 61.8   | 61.3   | 61.7   | 59.8   | 59.8   | 56.4   |        |        |        |        |
| BAR 30.1 HG         | 315   | 52.8   | 54.6   | 55.9   | 56.3   | 56.9   | 59.0   | 57.2   | 57.3   | 56.7   | 56.7   | 54.5   |        |        |        |        |
| (C1 11. N/42)       | 400   | 51.6   | 53.2   | 53.9   | 54.8   | 56.0   | 58.0   | 57.3   | 57.1   | 56.4   | 55.9   | 53.1   |        |        |        |        |
| TAMB 40. DEG F      | 500   | 49.7   | 52.0   | 52.7   | 54.7   | 55.0   | 59.1   | 58.8   | 58.7   | 58.0   | 56.7   | 52.5   |        |        |        |        |
| (278. DEG K)        | 600   | 52.0   | 52.8   | 55.5   | 57.0   | 58.8   | 61.4   | 61.4   | 60.9   | 59.5   | 57.7   | 51.9   |        |        |        |        |
| THET 33. DEG F      | 1000  | 52.4   | 53.2   | 55.6   | 56.6   | 57.8   | 60.0   | 60.0   | 60.2   | 58.9   | 56.3   | 50.7   |        |        |        |        |
| (274. DEG K)        | 1250  | 50.4   | 52.5   | 54.0   | 56.2   | 57.8   | 61.2   | 60.4   | 60.2   | 59.7   | 56.8   | 49.5   |        |        |        |        |
| NACT 2.03 GM/MS     | 1500  | 49.1   | 50.7   | 53.2   | 55.9   | 57.5   | 60.3   | 60.5   | 59.4   | 59.1   | 56.1   | 48.7   |        |        |        |        |
| (.00293 KR/MS)      | 2000  | 48.7   | 50.9   | 52.7   | 54.9   | 56.5   | 59.0   | 59.4   | 58.8   | 57.2   | 53.7   | 47.1   |        |        |        |        |
| NFA 7772. RPM       | 2500  | 52.4   | 53.6   | 57.3   | 57.6   | 58.7   | 62.9   | 65.9   | 66.5   | 64.6   | 57.5   | 48.0   |        |        |        |        |
| ( 14. RAD/SEC)      | 3000  | 51.6   | 53.6   | 56.9   | 59.6   | 62.8   | 64.5   | 64.9   | 65.5   | 65.8   | 57.8   | 48.8   |        |        |        |        |
| NPK 7916. RPM       | 3150  | 51.9   | 54.4   | 59.1   | 61.7   | 64.3   | 67.7   | 67.1   | 66.7   | 67.3   | 58.8   | 48.8   |        |        |        |        |
| ( 823. RAD/SEC)     | 4000  | 50.4   | 57.0   | 63.8   | 68.3   | 69.4   | 70.3   | 70.9   | 72.5   | 69.8   | 61.4   | 52.8   |        |        |        |        |
| RFD 8823. RPM       | 5000  | 49.6   | 52.4   | 56.5   | 59.9   | 62.7   | 66.6   | 67.7   | 66.3   | 63.7   | 56.8   | 45.4   |        |        |        |        |
| ( 924. RAD/SEC)     | 6000  | 47.2   | 51.6   | 54.3   | 58.1   | 60.2   | 65.4   | 66.7   | 65.6   | 63.1   | 54.1   | 42.7   |        |        |        |        |
| NO. OF BLADES 15    | 8000  | 45.3   | 49.7   | 53.4   | 57.0   | 59.6   | 64.6   | 64.8   | 64.8   | 63.3   | 53.9   | 40.7   |        |        |        |        |
| FAN TIP SPEED 15000 | 10000 | 43.5   | 47.3   | 51.8   | 55.2   | 57.6   | 61.9   | 63.4   | 63.8   | 61.1   | 50.4   | 38.9   |        |        |        |        |
| 678. FT/SEC         | 12500 | 43.7   | 44.4   | 49.3   | 52.6   | 55.8   | 59.3   | 61.8   | 61.2   | 58.6   | 47.8   | 38.0   |        |        |        |        |
|                     | 15000 | 34.1   | 39.2   | 44.6   | 47.4   | 50.4   | 54.3   | 55.4   | 55.7   | 52.1   | 39.5   | 28.0   |        |        |        |        |
|                     | 20000 | 28.1   | 34.4   | 40.3   | 43.4   | 46.3   | 51.3   | 51.6   | 51.1   | 47.2   | 33.6   | 8.9    |        |        |        |        |
|                     | 25000 | 19.2   | 26.3   | 32.0   | 35.4   | 39.0   | 43.8   | 44.0   | 43.3   | 38.3   | 22.5   |        |        |        |        |        |
|                     | 31500 | 6.6    | 14.1   | 20.2   | 24.8   | 28.3   | 32.5   | 31.0   | 29.9   | 22.1   | 2.8    |        |        |        |        |        |
|                     | 40000 |        |        | 1.6    | 7.4    | 11.0   | 15.0   | 13.7   | 8.9    |        |        |        |        |        |        |        |
|                     | 50000 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                     | 63000 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                     | 80000 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED  |       | 64.5   | 64.4   | 69.3   | 72.4   | 74.8   | 76.7   | 77.2   | 77.4   | 75.7   | 78.4   | 64.2   |        |        |        |        |
| PWD                 |       | 77.9   | 79.8   | 83.7   | 87.6   | 89.8   | 91.2   | 91.6   | 92.8   | 90.8   | 93.8   | 78.8   |        |        |        |        |





MODEL SOUND PRESSURE LEVELS (59. PROC. DATE - MONTH 29 DAY 3, YR. 68  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)  
 70 PERCENT REL. HUM. DIV)

FREQ. (0.92)(1.06)(1.24)(1.41)(1.58)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(3.00)(3.30)(3.60)(3.90)(4.20)(4.50)

|                    | 59    | 69   | 71   | 81   | 91   | 101  | 111  | 122  | 133  | 145  | 156  | 168  | 180 | 192 | 204 | 216 | 228 | 240 | 252 | 264 | 276 | 288 | 300 |  |  |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| SIDELINE 255 FT.   | 50    | 49.3 | 48.5 | 47.2 | 54.3 | 55.2 | 56.5 | 53.8 | 53.8 | 54.4 | 55.4 | 55.3 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| ( 60.98 ft)        | 63    | 43.7 | 47.7 | 49.7 | 51.1 | 51.7 | 53.8 | 51.8 | 59.5 | 51.8 | 50.1 | 55.9 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| VEHICLE 3-55       | 100   | 52.7 | 54.7 | 54.9 | 53.8 | 54.2 | 55.8 | 53.3 | 55.9 | 55.8 | 56.2 | 55.8 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| COYF 75-87         | 140   | 48.5 | 51.3 | 52.0 | 52.9 | 52.8 | 54.6 | 53.4 | 56.3 | 56.9 | 57.6 | 55.8 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| LDC SCHEVECTADY    | 200   | 48.9 | 49.3 | 51.0 | 52.2 | 53.8 | 57.9 | 56.4 | 57.3 | 57.1 | 58.2 | 56.6 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| GATE 31-10-75      | 250   | 53.0 | 55.5 | 56.4 | 55.3 | 59.2 | 61.3 | 60.8 | 60.7 | 59.8 | 59.3 | 56.4 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| RUN 75-23          | 315   | 53.1 | 54.6 | 55.4 | 56.3 | 56.6 | 59.8 | 57.5 | 57.3 | 56.9 | 56.7 | 54.5 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| TAPE 109033        | 401   | 51.1 | 52.9 | 53.7 | 55.1 | 56.9 | 57.8 | 57.3 | 57.1 | 56.4 | 56.9 | 53.1 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| BAR 30-1 MS        | 500   | 49.7 | 51.7 | 52.7 | 53.7 | 55.5 | 59.1 | 58.6 | 58.5 | 58.6 | 56.4 | 52.8 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| ( 91.711. N/42)    | 630   | 51.5 | 52.8 | 53.3 | 57.0 | 58.8 | 61.4 | 63.9 | 60.5 | 59.3 | 57.4 | 51.7 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| TAND 40. DE3 F     | 800   | 52.1 | 53.7 | 55.2 | 56.6 | 57.3 | 60.6 | 60.8 | 59.7 | 58.6 | 56.8 | 50.4 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| ( 270. DE3 N)      | 1000  | 49.0 | 52.8 | 53.8 | 56.8 | 57.6 | 60.9 | 60.6 | 60.2 | 59.2 | 55.8 | 49.5 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| TNEY 33. DE3 F     | 1250  | 49.1 | 51.7 | 53.5 | 55.9 | 57.5 | 60.8 | 60.3 | 59.4 | 58.1 | 55.9 | 48.7 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| ( 270. DE3 X)      | 1600  | 49.9 | 50.6 | 53.4 | 55.2 | 56.5 | 59.8 | 59.4 | 58.6 | 57.8 | 53.5 | 48.4 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| NACT 2.03 64/43    | 2000  | 52.6 | 53.3 | 57.1 | 57.3 | 59.9 | 62.9 | 65.6 | 64.2 | 63.9 | 57.6 | 49.5 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| ( 899.2. 42/43)    | 2500  | 51.6 | 53.3 | 56.9 | 59.9 | 61.5 | 64.9 | 64.9 | 65.2 | 65.6 | 57.5 | 47.5 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| WFA 7778. 454      | 3150  | 52.1 | 54.6 | 56.4 | 62.2 | 64.5 | 67.7 | 67.4 | 66.5 | 67.8 | 58.3 | 48.6 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| ( 810. RAD/SEC)    | 4000  | 51.9 | 57.9 | 63.8 | 67.8 | 68.6 | 69.6 | 71.2 | 71.8 | 69.3 | 61.4 | 52.0 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| WPK 7010. 424      | 5000  | 49.3 | 52.7 | 55.5 | 60.1 | 62.7 | 66.3 | 67.2 | 66.8 | 63.5 | 59.7 | 45.4 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| ( 820. RAD/SEC)    | 6300  | 45.9 | 50.5 | 54.6 | 57.9 | 60.9 | 65.7 | 66.2 | 65.1 | 62.1 | 54.3 | 42.9 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| WFO 8823. 424      | 9000  | 45.5 | 49.8 | 53.4 | 56.5 | 59.3 | 64.1 | 64.1 | 64.3 | 63.8 | 53.7 | 40.5 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| ( 924. RAD/SEC)    | 10000 | 43.2 | 47.3 | 52.1 | 55.4 | 58.1 | 61.9 | 63.1 | 62.7 | 60.6 | 50.4 | 36.2 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| NO. OF BLADES (3)  | 12500 | 40.2 | 44.2 | 49.5 | 52.6 | 55.6 | 59.8 | 61.6 | 61.2 | 58.4 | 47.3 | 36.2 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| FAN TIP SPEED      | 16700 | 33.6 | 36.2 | 44.6 | 47.7 | 50.4 | 54.3 | 55.1 | 55.7 | 52.1 | 39.8 | 29.0 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| 670. FT/SEC        | 23200 | 27.8 | 34.2 | 40.6 | 45.9 | 48.3 | 51.3 | 51.1 | 51.1 | 48.7 | 33.1 | 26.4 |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                    | 29300 | 18.2 | 25.5 | 32.8 | 37.2 | 39.2 | 43.5 | 43.8 | 43.1 | 38.8 | 22.7 | 8.4  |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                    | 31300 | 6.1  | 14.1 | 20.7 | 25.3 | 26.5 | 32.5 | 31.6 | 29.9 | 22.1 | 1.7  |      |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                    | 43300 |      |      | 2.1  | 7.4  | 11.8 | 14.8 | 14.2 | 8.9  |      |      |      |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                    | 99800 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                    | 63300 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                    | 89300 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |  |  |
| OVERALL CALCULATED |       | 64.6 | 56.3 | 69.2 | 78.2 | 73.7 | 76.2 | 77.1 | 77.8 | 79.5 | 78.2 | 68.9 |     |     |     |     |     |     |     |     |     |     |     |  |  |
| WDB                |       | 78.1 | 79.7 | 83.7 | 87.4 | 88.6 | 89.8 | 91.7 | 91.8 | 90.8 | 83.8 | 75.9 |     |     |     |     |     |     |     |     |     |     |     |  |  |

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ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 59.     | 62.     | 71.     | 81.     | 91.     | 101.    | 111.    | 122.    | 133.    | 145.    | 159.    | 180.    | 200.    | 225.    | 270.    | 315.    | 360.    |  |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| FREQ.              | (10.92) | (11.98) | (13.24) | (14.71) | (16.38) | (18.26) | (20.36) | (22.69) | (25.35) | (28.33) | (31.64) | (35.38) | (39.56) | (44.20) | (49.41) | (55.19) | (61.54) |  |
| RADIAL 17. FT.     | 58      | 62.1    | 56.0    | 61.2    | 65.7    | 66.5    | 67.2    | 63.5    | 61.0    | 65.2    | 67.3    | 66.2    |         |         |         |         | 98.0    |  |
| ( 5. 4)            | 63      | 52.2    | 55.3    | 59.5    | 59.0    | 59.3    | 60.3    | 57.0    | 54.0    | 59.0    | 63.1    | 65.2    |         |         |         |         | 93.7    |  |
| VEHICLE 4-58       | 100     | 50.7    | 50.3    | 63.6    | 58.1    | 59.8    | 59.1    | 57.0    | 61.3    | 61.3    | 62.9    | 64.3    |         |         |         |         | 94.3    |  |
| CONFIS 75-63       | 160     | 55.2    | 56.2    | 56.3    | 56.3    | 56.5    | 58.3    | 59.0    | 61.0    | 63.4    | 64.7    | 65.3    |         |         |         |         | 93.3    |  |
| LOC SCHEMESTADY    | 200     | 54.7    | 55.0    | 54.0    | 55.9    | 56.6    | 60.1    | 60.1    | 61.4    | 62.1    | 64.7    | 65.0    |         |         |         |         | 94.4    |  |
| DATE 11-10-75      | 250     | 57.2    | 58.0    | 59.3    | 59.1    | 59.8    | 61.0    | 61.3    | 62.1    | 62.6    | 63.9    | 64.5    |         |         |         |         | 93.3    |  |
| TW 75-24           | 315     | 59.5    | 57.0    | 59.0    | 60.4    | 60.1    | 62.6    | 61.3    | 61.1    | 62.4    | 62.0    | 63.3    |         |         |         |         | 93.3    |  |
| TAPE TC2033        | 400     | 58.7    | 58.0    | 57.0    | 58.8    | 58.5    | 61.0    | 61.2    | 61.8    | 62.3    | 63.4    | 63.7    |         |         |         |         | 92.9    |  |
| BAR 30.1 M2        | 500     | 58.1    | 57.1    | 57.7    | 58.7    | 59.9    | 62.9    | 63.4    | 63.9    | 64.9    | 65.5    | 63.0    |         |         |         |         | 96.3    |  |
| (01711. N/42)      | 630     | 59.5    | 58.3    | 63.3    | 62.1    | 63.1    | 66.3    | 66.5    | 66.0    | 67.1    | 67.9    | 64.5    |         |         |         |         | 98.0    |  |
| TANK 60. DEF F     | 830     | 59.5    | 59.1    | 60.1    | 61.1    | 62.4    | 65.4    | 65.0    | 66.4    | 67.2    | 67.5    | 63.5    |         |         |         |         | 96.5    |  |
| (278. DEF K)       | 1300    | 57.5    | 58.5    | 59.0    | 62.3    | 63.1    | 67.1    | 67.3    | 68.1    | 69.4    | 69.9    | 64.0    |         |         |         |         | 100.0   |  |
| TWET 73. DEF F     | 1850    | 59.6    | 59.9    | 61.4    | 64.4    | 64.4    | 69.1    | 70.1    | 71.9    | 74.0    | 73.5    | 68.1    |         |         |         |         | 103.3   |  |
| (270. DEF K)       | 2000    | 56.4    | 57.2    | 58.5    | 60.6    | 62.5    | 65.5    | 66.2    | 66.0    | 67.4    | 67.2    | 62.0    |         |         |         |         | 98.5    |  |
| NACT 2.33 24/43    | 2800    | 54.8    | 56.1    | 57.6    | 59.9    | 61.1    | 64.1    | 64.1    | 65.4    | 67.0    | 67.6    | 61.5    |         |         |         |         | 97.5    |  |
| (00273 K/43)       | 2900    | 60.6    | 61.0    | 64.0    | 67.2    | 68.9    | 72.0    | 74.2    | 76.2    | 78.7    | 76.0    | 69.5    |         |         |         |         | 107.0   |  |
| WFA 9437. 004      | 3150    | 59.9    | 61.4    | 63.4    | 66.2    | 68.7    | 72.0    | 73.5    | 75.0    | 77.0    | 75.0    | 68.0    |         |         |         |         | 100.5   |  |
| ( 967. RAD/SEC)    | 4000    | 59.7    | 62.3    | 64.4    | 67.0    | 69.2    | 72.0    | 74.6    | 76.0    | 78.0    | 76.0    | 68.0    |         |         |         |         | 107.0   |  |
| NPK 5539. 05H      | 5100    | 57.0    | 58.5    | 60.7    | 63.0    | 66.2    | 69.0    | 71.0    | 73.0    | 73.0    | 71.5    | 64.3    |         |         |         |         | 103.0   |  |
| ( 988. RAD/SEC)    | 6300    | 59.7    | 57.1    | 59.0    | 61.0    | 64.5    | 69.4    | 70.6    | 71.3    | 73.5    | 71.4    | 64.7    |         |         |         |         | 102.0   |  |
| WFD 0023. 00M      | 8200    | 64.1    | 60.0    | 60.5    | 61.5    | 64.2    | 68.0    | 69.0    | 72.5    | 73.2    | 71.4    | 64.2    |         |         |         |         | 102.0   |  |
| ( 024. RAD/SEC)    | 13000   | 54.3    | 56.4    | 58.3    | 61.2    | 63.9    | 68.0    | 70.5    | 71.2    | 73.6    | 70.3    | 63.4    |         |         |         |         | 102.0   |  |
| NO. OF BLADES 13   | 12500   | 53.6    | 55.2    | 58.0    | 61.4    | 64.1    | 67.4    | 69.4    | 72.5    | 73.0    | 70.0    | 63.2    |         |         |         |         | 102.0   |  |
| FAN TIP SPEED      | 16000   | 53.2    | 55.4    | 57.2    | 59.9    | 62.3    | 66.3    | 68.6    | 72.1    | 72.0    | 69.2    | 62.3    |         |         |         |         | 102.0   |  |
| 470. FT/SEC        | 20000   | 52.0    | 56.4    | 57.2    | 59.6    | 62.4    | 67.0    | 68.9    | 71.0    | 74.0    | 71.1    | 62.2    |         |         |         |         | 103.7   |  |
|                    | 25000   | 51.3    | 55.3    | 55.9    | 58.5    | 62.1    | 67.0    | 68.6    | 70.5    | 72.1    | 70.1    | 60.0    |         |         |         |         | 103.1   |  |
|                    | 31500   | 52.5    | 53.9    | 55.1    | 58.2    | 60.0    | 65.0    | 67.1    | 69.7    | 71.3    | 67.0    | 59.0    |         |         |         |         | 102.0   |  |
|                    | 43000   | 52.3    | 53.2    | 52.0    | 55.3    | 58.5    | 62.0    | 64.9    | 66.9    | 68.5    | 65.4    | 55.3    |         |         |         |         | 101.0   |  |
|                    | 50000   | 51.1    | 51.0    | 49.6    | 50.1    | 52.4    | 56.4    | 58.7    | 59.3    | 60.7    | 58.7    | 50.0    |         |         |         |         | 98.0    |  |
|                    | 63000   | 49.5    | 49.0    | 48.2    | 46.7    | 46.0    | 48.0    | 49.5    | 49.5    | 50.3    | 48.0    | 47.2    |         |         |         |         | 91.7    |  |
|                    | 83000   | 55.7    | 56.1    | 53.9    | 52.0    | 52.6    | 54.0    | 54.0    | 53.8    | 52.1    | 52.2    | 52.5    |         |         |         |         | 100.7   |  |
| OVERALL MEASURED   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |
| OVERALL CALCULATED |         | 71.0    | 72.0    | 74.3    | 76.7    | 78.4    | 82.0    | 83.2    | 85.3    | 86.7    | 84.9    | 79.3    |         |         |         |         | 110.5   |  |
| PDOB               |         | 83.6    | 85.3    | 87.1    | 89.0    | 91.4    | 94.9    | 96.1    | 98.1    | 99.6    | 97.0    | 91.0    |         |         |         |         |         |  |

all 10dB low

ORIGINAL PAGE IS  
OF POOR QUALITY

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM., DAY) 0.6  
 PRG. DATE - MONTH 3, DAY 0, HR. 0.6  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                     | FREQ. | 53.     | 62.    | 71.    | 81.    | 91.    | 101.   | 111.   | 122.   | 133.   | 145.   | 156.   | 167.   | 178.   | 189.   | 200.   |
|---------------------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                     |       | (1.092) | (1.68) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.94) | (3.16) | (3.38) | (3.61) |
| SIDELINE 200. FT.   | 50    |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ( 90.95 M)          | 63    |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| VEHICLE R-55        | 80    | 38.9    | 34.3   | 39.2   | 44.1   | 45.0   | 45.9   | 41.3   | 38.0   | 40.9   | 40.9   | 36.3   |        |        |        |        |
| CONFIG 75-60        | 100   | 28.5    | 32.2   | 37.4   | 38.1   | 37.7   | 38.5   | 34.8   | 31.7   | 35.4   | 36.6   | 35.2   |        |        |        |        |
| LOC SCHENECTADY     | 125   | 34.9    | 35.3   | 38.4   | 36.3   | 38.2   | 37.3   | 35.3   | 38.2   | 36.8   | 35.9   | 34.3   |        |        |        |        |
| DATE 01-16-75       | 160   | 31.3    | 33.3   | 34.0   | 34.4   | 34.8   | 36.4   | 35.9   | 35.8   | 36.4   | 36.3   | 34.3   |        |        |        |        |
| RUN 75-24           | 200   | 30.9    | 32.6   | 32.3   | 33.9   | 34.8   | 38.1   | 37.6   | 38.0   | 37.4   | 37.7   | 35.1   |        |        |        |        |
| TAPE X00033         | 250   | 33.2    | 35.0   | 36.9   | 37.1   | 38.0   | 39.8   | 38.8   | 38.7   | 37.8   | 36.5   | 33.7   |        |        |        |        |
| BAR 30.1 HG         | 315   | 34.3    | 34.4   | 37.4   | 39.3   | 38.1   | 40.9   | 38.7   | 37.6   | 37.4   | 35.7   | 32.2   |        |        |        |        |
| (01711. N/M2)       | 400   | 32.4    | 34.7   | 35.2   | 36.6   | 37.5   | 39.5   | 38.5   | 38.1   | 37.2   | 36.2   | 32.4   |        |        |        |        |
| TAMB 40. DEG F      | 500   | 31.7    | 33.7   | 35.0   | 36.4   | 37.8   | 40.6   | 40.8   | 40.2   | 39.7   | 37.9   | 32.0   |        |        |        |        |
| (278. DEG K)        | 630   | 34.0    | 35.3   | 37.9   | 39.7   | 40.8   | 43.9   | 43.8   | 43.0   | 41.8   | 39.4   | 32.7   |        |        |        |        |
| THET 33. DEG F      | 800   | 33.9    | 35.5   | 37.2   | 38.6   | 40.0   | 43.1   | 42.8   | 42.4   | 41.6   | 39.4   | 31.4   |        |        |        |        |
| (274. DEG K)        | 1000  | 32.7    | 35.0   | 36.8   | 39.7   | 40.6   | 44.4   | 44.1   | 44.0   | 43.7   | 41.8   | 31.5   |        |        |        |        |
| HACT 2.93 GM/M3     | 1250  | 34.6    | 35.9   | 35.2   | 41.7   | 43.8   | 46.3   | 46.8   | 47.6   | 48.1   | 45.1   | 35.2   |        |        |        |        |
| (.0293 KG/M3)       | 1600  | 31.2    | 33.1   | 35.2   | 37.7   | 39.7   | 42.5   | 42.7   | 42.3   | 41.2   | 38.5   | 29.6   |        |        |        |        |
| NFA 5437. RPM       | 2000  | 29.4    | 31.3   | 34.1   | 36.5   | 38.2   | 40.9   | 40.4   | 40.7   | 40.6   | 38.5   | 27.8   |        |        |        |        |
| ( 569. RAD/SEC)     | 2500  | 34.9    | 37.3   | 41.1   | 43.9   | 45.7   | 48.7   | 50.4   | 53.2   | 52.1   | 47.0   | 35.3   |        |        |        |        |
| NFK 5530. RPM       | 3150  | 33.9    | 36.6   | 39.4   | 42.7   | 45.3   | 49.2   | 49.4   | 49.7   | 50.0   | 46.1   | 33.8   |        |        |        |        |
| ( 980. RAD/SEC)     | 4000  | 33.1    | 37.2   | 40.0   | 43.8   | 45.4   | 48.8   | 49.9   | 51.0   | 51.3   | 45.4   | 32.0   |        |        |        |        |
| NFD 8823. RPM       | 5000  | 30.1    | 32.4   | 36.0   | 39.4   | 42.2   | 45.8   | 46.9   | 47.0   | 45.7   | 40.8   | 27.6   |        |        |        |        |
| ( 924. RAD/SEC)     | 6300  | 27.9    | 30.7   | 33.6   | 36.9   | 39.7   | 44.4   | 44.9   | 44.4   | 44.6   | 39.3   | 26.2   |        |        |        |        |
| NO. OF BLADES 15    | 8000  | 25.0    | 29.2   | 31.9   | 35.5   | 38.3   | 42.8   | 42.8   | 44.3   | 42.8   | 37.6   | 23.0   |        |        |        |        |
| FAN TIP SPEED 16000 | 10000 | 23.2    | 27.0   | 30.1   | 33.7   | 36.6   | 41.2   | 42.2   | 41.2   | 41.1   | 33.4   | 18.2   |        |        |        |        |
| 475. FT/SEC         | 12500 | 19.7    | 23.9   | 27.9   | 31.6   | 34.6   | 37.9   | 38.6   | 39.7   | 37.4   | 30.0   | 12.2   |        |        |        |        |
|                     | 16000 | 14.6    | 19.4   | 22.8   | 26.4   | 29.2   | 32.8   | 33.9   | 35.2   | 32.1   | 22.0   | 2.0    |        |        |        |        |
|                     | 20000 | 8.3     | 13.9   | 17.8   | 21.4   | 24.6   | 29.5   | 29.1   | 29.3   | 26.7   | 15.8   |        |        |        |        |        |
|                     | 25000 |         | 5.8    | 9.3    | 13.4   | 17.9   | 21.8   | 21.9   | 19.8   | 15.3   | 2.2    |        |        |        |        |        |
|                     | 31500 |         |        |        | 3.1    | 6.3    | 10.5   | 9.3    | 7.1    | 0.6    |        |        |        |        |        |        |
|                     | 40000 |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                     | 50000 |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                     | 63000 |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                     | 80000 |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED  |       | 46.4    | 47.9   | 50.5   | 53.1   | 54.7   | 57.7   | 58.0   | 58.9   | 58.5   | 54.5   | 46.2   |        |        |        |        |
| PNDR                |       | 56.8    | 59.9   | 62.4   | 68.6   | 67.4   | 71.0   | 71.4   | 72.7   | 72.0   | 67.8   | 56.3   |        |        |        |        |

*all 10dB low*

0.0 10.0 20.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 100.0 110.0 120.0 130.0 140.0 150.0  
 0.0 1.75 3.5 5.25 7.0 8.75 10.5 12.25 14.0 15.75 17.5 19.25 21.0 22.75 24.5 26.25 28.0 29.75 31.5 33.25 35.0 36.75 38.5 40.25 42.0 43.75 45.5 47.25 49.0 50.75 52.5 54.25 56.0 57.75 59.5 61.25 63.0 64.75 66.5 68.25 70.0 71.75 73.5 75.25 77.0 78.75 80.5 82.25 84.0 85.75 87.5 89.25 91.0 92.75 94.5 96.25 98.0 99.75

|                           | 0     | 10   | 20   | 30   | 40   | 50   | 60   | 70    | 80    | 90    | 100   | 110  | 120 | 130 | 140 | 150 | 160   |
|---------------------------|-------|------|------|------|------|------|------|-------|-------|-------|-------|------|-----|-----|-----|-----|-------|
| RADIAL 17. FT.            | 50    |      |      |      |      |      |      |       |       |       |       |      |     |     |     |     |       |
| VEHICLE (S. 1)            | 150   | 75.2 | 76.7 | 40.4 | 90.7 | 51.3 | 41.4 | 77.8  | 77.0  | 70.7  | 75.5  | 77.4 |     |     |     |     | 113.3 |
| CONFIG R-05               | 175   | 67.5 | 67.9 | 70.7 | 58.0 | 72.0 | 44.6 | 67.8  | 71.2  | 71.2  | 72.5  | 75.4 |     |     |     |     | 104.6 |
| LOC SCHEMECTARY           | 160   | 67.5 | 68.4 | 66.4 | 66.5 | 65.5 | 64.6 | 68.0  | 70.2  | 71.5  | 73.5  | 75.7 |     |     |     |     | 103.6 |
| DATE 1/22/75              | 270   | 64.7 | 64.4 | 65.1 | 64.9 | 67.5 | 49.4 | 69.8  | 72.0  | 73.2  | 75.3  | 76.6 |     |     |     |     | 104.8 |
| RUN 4472                  | 315   | 64.5 | 64.4 | 69.5 | 70.2 | 70.0 | 71.4 | 72.0  | 73.5  | 73.2  | 74.2  | 75.6 |     |     |     |     | 105.9 |
| TYPE                      | 470   | 67.0 | 66.9 | 67.9 | 67.7 | 68.5 | 70.1 | 70.5  | 72.0  | 72.2  | 73.3  | 74.1 |     |     |     |     | 104.6 |
| BAP 30-1 MG               | 570   | 65.0 | 65.7 | 66.1 | 67.0 | 68.1 | 67.7 | 71.0  | 72.2  | 72.9  | 73.5  | 73.4 |     |     |     |     | 104.4 |
| (31594. 1/1.2)            | 630   | 67.1 | 67.7 | 69.2 | 70.7 | 72.3 | 73.7 | 75.5  | 76.0  | 76.2  | 76.3  | 74.9 |     |     |     |     | 107.6 |
| TAMB 45 DEG F             | 870   | 67.8 | 68.4 | 69.9 | 71.0 | 71.3 | 73.7 | 75.3  | 76.7  | 76.0  | 77.3  | 74.2 |     |     |     |     | 107.9 |
| (270. DEG W)              | 1020  | 64.8 | 65.7 | 67.9 | 69.5 | 71.1 | 73.4 | 74.7  | 76.2  | 76.6  | 77.5  | 72.6 |     |     |     |     | 107.7 |
| T-ET 40 DEG F             | 1230  | 67.5 | 68.5 | 71.1 | 72.5 | 73.5 | 75.5 | 77.5  | 80.7  | 81.7  | 82.3  | 76.2 |     |     |     |     | 111.5 |
| (278. DEG W)              | 1430  | 64.3 | 65.7 | 67.4 | 68.8 | 69.6 | 71.5 | 73.2  | 75.3  | 74.2  | 74.1  | 71.7 |     |     |     |     | 106.1 |
| WACT 5-05 50/17           | 2030  | 61.9 | 67.0 | 64.4 | 65.7 | 66.4 | 68.2 | 69.7  | 76.2  | 71.2  | 71.6  | 69.2 |     |     |     |     | 102.5 |
| (20555 40/17)             | 2530  | 62.6 | 64.7 | 64.5 | 67.7 | 68.2 | 70.5 | 70.2  | 69.9  | 71.5  | 71.8  | 68.4 |     |     |     |     | 103.1 |
| NFA 5177.0 RPM            | 3100  | 67.3 | 61.3 | 62.4 | 64.4 | 66.4 | 69.0 | 69.9  | 70.4  | 71.7  | 72.1  | 67.4 |     |     |     |     | 102.6 |
| (573. 44-1/SEC)           | 4000  | 61.3 | 63.2 | 64.1 | 67.7 | 69.7 | 71.7 | 73.1  | 74.1  | 77.1  | 77.5  | 70.6 |     |     |     |     | 106.8 |
| NFF 5552.0 RPM            | 5000  | 63.4 | 62.2 | 63.5 | 65.1 | 68.1 | 71.7 | 75.1  | 77.8  | 77.8  | 78.7  | 70.5 |     |     |     |     | 107.6 |
| (581. 847/SEC)            | 6300  | 63.3 | 64.3 | 65.5 | 67.5 | 70.5 | 74.4 | 76.8  | 80.6  | 81.4  | 78.4  | 72.6 |     |     |     |     | 110.3 |
| NFD 6823.0 RPM            | 8000  | 67.0 | 65.2 | 66.3 | 69.3 | 72.0 | 75.3 | 78.4  | 80.8  | 82.5  | 80.9  | 74.2 |     |     |     |     | 111.6 |
| (924. 847/SEC)            | 10000 | 64.5 | 69.8 | 71.3 | 76.1 | 78.3 | 82.4 | 84.1  | 85.6  | 87.1  | 83.4  | 81.1 |     |     |     |     | 116.7 |
| NO. OF BLADES 15          | 12500 | 67.8 | 71.3 | 72.4 | 74.9 | 52.0 | 83.6 | 85.2  | 86.7  | 87.8  | 82.9  | 77.3 |     |     |     |     | 117.9 |
| FAN TIP SPEED 478. FT/SEC | 16000 | 53.3 | 64.8 | 65.4 | 71.7 | 75.7 | 78.5 | 81.3  | 83.7  | 85.1  | 80.4  | 74.3 |     |     |     |     | 114.6 |
|                           | 20000 | 52.1 | 67.9 | 65.7 | 70.5 | 74.0 | 77.4 | 80.5  | 83.6  | 85.3  | 79.9  | 73.0 |     |     |     |     | 114.7 |
|                           | 25000 | 60.5 | 62.5 | 64.0 | 69.4 | 71.9 | 75.8 | 77.7  | 80.4  | 82.1  | 77.7  | 70.3 |     |     |     |     | 112.6 |
|                           | 31500 | 59.6 | 61.2 | 63.1 | 69.2 | 71.5 | 74.5 | 76.7  | 79.7  | 80.3  | 76.3  | 68.2 |     |     |     |     | 112.4 |
|                           | 40000 | 54.5 | 59.3 | 61.1 | 68.2 | 68.9 | 72.0 | 74.3  | 75.5  | 76.9  | 73.3  | 63.3 |     |     |     |     | 110.3 |
|                           | 50000 | 62.4 | 59.0 | 61.5 | 62.7 | 64.5 | 67.9 | 70.3  | 69.8  | 71.6  | 69.1  | 59.6 |     |     |     |     | 107.6 |
|                           | 63700 | 61.3 | 59.3 | 61.0 | 59.7 | 60.3 | 62.6 | 63.9  | 63.6  | 64.4  | 62.9  | 57.3 |     |     |     |     | 105.0 |
|                           | 80000 | 63.9 | 66.1 | 61.3 | 59.9 | 59.7 | 40.1 | 59.3  | 59.1  | 56.7  | 56.9  |      |     |     |     |     | 100.2 |
| OVERALL MEASURED          |       |      |      |      |      |      |      |       |       |       |       |      |     |     |     |     |       |
| OVERALL CALCULATED        |       | 87.8 | 82.2 | 84.3 | 87.0 | 88.3 | 90.3 | 91.8  | 93.6  | 94.8  | 92.2  | 88.8 |     |     |     |     | 128.4 |
|                           |       | 89.0 | 90.4 | 91.6 | 94.0 | 95.7 | 98.5 | 100.0 | 101.9 | 102.7 | 102.0 | 98.4 |     |     |     |     |       |

|                            | 57.2  | 62.8 | 71.1 | 81.1 | 91.1 | 101.1 | 111.1 | 121.1 | 131.1 | 141.1 | 151.1 | 0.   | 0. | 0. | 0. | 0. |
|----------------------------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|------|----|----|----|----|
| SIDELINE 200. FT.          | 30    |      |      |      |      |       |       |       |       |       |       |      |    |    |    |    |
| VEHICLE R-75               | 125   | 51.5 | 51.3 | 50.3 | 61.2 | 67.2  | 67.7  | 54.4  | 44.9  | 46.3  | 49.0  | 47.3 |    |    |    |    |
| CONFIG 25-7                | 125   | 41.7 | 45.1 | 48.5 | 45.2 | 55.4  | 44.4  | 45.5  | 44.1  | 44.7  | 45.9  | 45.2 |    |    |    |    |
| LOC SCHEMECTADY            | 270   | 41.6 | 47.5 | 44.2 | 44.4 | 44.5  | 41.4  | 45.7  | 47.0  | 46.4  | 46.7  | 45.2 |    |    |    |    |
| DATE 1/22/75               | 270   | 40.5 | 41.4 | 43.1 | 44.3 | 45.7  | 47.4  | 47.3  | 44.7  | 44.4  | 48.0  | 46.0 |    |    |    |    |
| RUN 64/2                   | 315   | 43.4 | 45.3 | 47.2 | 44.2 | 44.1  | 49.3  | 49.5  | 50.1  | 44.3  | 47.1  | 44.8 |    |    |    |    |
| TARE                       | 450   | 44.3 | 46.3 | 47.1 | 44.1 | 44.3  | 47.0  | 49.1  | 44.7  | 47.5  | 46.0  | 43.0 |    |    |    |    |
| BAR 30.1 HG                | 570   | 42.7 | 47.7 | 45.3 | 44.5 | 46.7  | 47.9  | 47.4  | 40.4  | 47.1  | 45.0  | 42.0 |    |    |    |    |
| 101584. N/M21              | 670   | 40.6 | 42.7 | 43.5 | 44.7 | 45.2  | 47.4  | 48.2  | 48.5  | 47.7  | 45.2  | 41.0 |    |    |    |    |
| TARE 45. DEG F             | 800   | 42.5 | 41.2 | 46.4 | 44.4 | 50.1  | 51.3  | 52.6  | 52.1  | 50.8  | 44.5  | 43.1 |    |    |    |    |
| 1250. DEG F                | 1000  | 43.1 | 44.8 | 46.0 | 44.5 | 49.7  | 51.2  | 52.2  | 51.7  | 51.4  | 49.3  | 42.0 |    |    |    |    |
| 40. DEG F                  | 1250  | 42.0 | 42.2 | 44.9 | 44.9 | 45.6  | 50.8  | 51.6  | 52.1  | 51.2  | 49.3  | 40.2 |    |    |    |    |
| 1270. DEG F                | 1600  | 42.5 | 45.3 | 43.0 | 50.4 | 51.0  | 52.7  | 54.2  | 54.4  | 55.1  | 53.9  | 43.3 |    |    |    |    |
| 5.05 GPM/3                 | 2000  | 37.1 | 41.6 | 44.0 | 45.9 | 45.9  | 45.5  | 46.7  | 50.5  | 48.1  | 47.3  | 38.4 |    |    |    |    |
| 5000. KG/MT1               | 2500  | 36.4 | 37.7 | 40.4 | 42.4 | 43.5  | 45.1  | 46.0  | 45.5  | 44.8  | 42.9  | 35.4 |    |    |    |    |
| 5277. RPM                  | 3100  | 35.9 | 37.3 | 40.9 | 43.4 | 45.0  | 47.2  | 44.3  | 45.0  | 44.0  | 42.5  | 34.2 |    |    |    |    |
| 573. RA/SEC                | 4700  | 34.3 | 35.9 | 38.3 | 40.9 | 43.0  | 45.4  | 45.4  | 45.2  | 44.7  | 42.2  | 32.5 |    |    |    |    |
| 5552. RPM                  | 5000  | 35.0 | 37.9 | 39.6 | 42.7 | 44.3  | 47.7  | 48.5  | 49.3  | 49.6  | 46.9  | 34.6 |    |    |    |    |
| 581. RAC/SEC               | 6300  | 33.9 | 36.9 | 38.0 | 40.9 | 44.1  | 47.4  | 50.2  | 51.7  | 49.7  | 45.7  | 33.9 |    |    |    |    |
| 8227. RPM                  | 8000  | 35.6 | 37.9 | 40.0 | 42.4 | 45.8  | 49.4  | 51.2  | 53.7  | 52.4  | 44.2  | 34.1 |    |    |    |    |
| 924. RA/SEC                | 10000 | 37.8 | 37.6 | 39.7 | 43.3 | 45.1  | 49.2  | 51.6  | 52.7  | 52.1  | 46.7  | 32.9 |    |    |    |    |
| NO. OF BLADES 15           | 12500 | 35.7 | 40.5 | 43.1 | 44.5 | 50.9  | 54.9  | 55.7  | 55.6  | 54.6  | 48.5  | 35.9 |    |    |    |    |
| PAN. TIP SPEED 478. FT/SEC | 16000 | 37.9 | 39.4 | 41.9 | 49.1 | 52.4  | 53.7  | 54.4  | 54.1  | 52.2  | 42.0  | 26.4 |    |    |    |    |
|                            | 20000 | 24.8 | 24.8 | 32.5 | 34.4 | 42.5  | 45.0  | 46.6  | 46.8  | 44.4  | 33.1  | 13.9 |    |    |    |    |
|                            | 25000 | 17.5 | 22.4 | 25.9 | 32.3 | 36.1  | 39.1  | 40.7  | 41.0  | 37.9  | 24.2  | 0.3  |    |    |    |    |
|                            | 31500 | 7.2  | 13.3 | 17.4 | 24.3 | 27.2  | 30.5  | 30.6  | 29.8  | 25.3  | 9.6   |      |    |    |    |    |
|                            | 40000 |      | 0.6  | 6.0  | 17.5 | 16.9  | 20.2  | 18.9  | 17.2  | 9.5   |       |      |    |    |    |    |
|                            | 50000 |      |      |      |      |       | 1.6   | 0.5   |       |       |       |      |    |    |    |    |
|                            | 63000 |      |      |      |      |       |       |       |       |       |       |      |    |    |    |    |
|                            | 80000 |      |      |      |      |       |       |       |       |       |       |      |    |    |    |    |
| OVERALL CALCULATED         |       | 55.7 | 57.0 | 61.0 | 63.4 | 63.8  | 64.7  | 64.6  | 64.8  | 63.6  | 60.9  | 55.4 |    |    |    |    |
| PNDR                       |       | 62.7 | 65.3 | 67.2 | 69.7 | 71.5  | 73.7  | 74.7  | 75.9  | 74.7  | 71.7  | 62.2 |    |    |    |    |

|                           | 53.    | 62.   | 71.   | 81.   | 91.   | 101.  | 111.  | 122.  | 133.  | 145.  | 156.  | 0°    | 0°    | 0°    | 0°    | 0°    | PCL   |
|---------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FREQ.                     | (0.22) | (0.3) | (0.4) | (0.5) | (0.6) | (0.7) | (0.8) | (0.9) | (1.0) | (1.1) | (1.2) | 0°    | 0°    | 0°    | 0°    | 0°    | 1     |
| RADIAL 17. FT.            | 50     | 53    | 56    | 59    | 62    | 65    | 68    | 71    | 74    | 77    | 80    | 83    | 86    | 89    | 92    | 95    | 107.5 |
| VEHICLE                   | 100    | 125   | 150   | 175   | 200   | 225   | 250   | 275   | 300   | 325   | 350   | 375   | 400   | 425   | 450   | 475   | 107.4 |
| COEFIC                    | 160    | 200   | 240   | 280   | 320   | 360   | 400   | 440   | 480   | 520   | 560   | 600   | 640   | 680   | 720   | 760   | 107.4 |
| LCC SCHEMATA              | 230    | 250   | 270   | 290   | 310   | 330   | 350   | 370   | 390   | 410   | 430   | 450   | 470   | 490   | 510   | 530   | 107.4 |
| DATE 1/22/75              | 250    | 270   | 290   | 310   | 330   | 350   | 370   | 390   | 410   | 430   | 450   | 470   | 490   | 510   | 530   | 550   | 107.4 |
| RJ. 64/3                  | 315    | 335   | 355   | 375   | 395   | 415   | 435   | 455   | 475   | 495   | 515   | 535   | 555   | 575   | 595   | 615   | 107.4 |
| TAPE                      | 450    | 470   | 490   | 510   | 530   | 550   | 570   | 590   | 610   | 630   | 650   | 670   | 690   | 710   | 730   | 750   | 107.4 |
| BAR 33.1 HC               | 520    | 540   | 560   | 580   | 600   | 620   | 640   | 660   | 680   | 700   | 720   | 740   | 760   | 780   | 800   | 820   | 107.4 |
| (01534. H/MZ)             | 630    | 650   | 670   | 690   | 710   | 730   | 750   | 770   | 790   | 810   | 830   | 850   | 870   | 890   | 910   | 930   | 107.4 |
| TAMB 45. DEG F            | 630    | 650   | 670   | 690   | 710   | 730   | 750   | 770   | 790   | 810   | 830   | 850   | 870   | 890   | 910   | 930   | 107.4 |
| (230. DEG K)              | 1030   | 1050  | 1070  | 1090  | 1110  | 1130  | 1150  | 1170  | 1190  | 1210  | 1230  | 1250  | 1270  | 1290  | 1310  | 1330  | 107.4 |
| TACT 39. DEG F            | 1250   | 1270  | 1290  | 1310  | 1330  | 1350  | 1370  | 1390  | 1410  | 1430  | 1450  | 1470  | 1490  | 1510  | 1530  | 1550  | 107.4 |
| (277. DEG K)              | 1600   | 1620  | 1640  | 1660  | 1680  | 1700  | 1720  | 1740  | 1760  | 1780  | 1800  | 1820  | 1840  | 1860  | 1880  | 1900  | 107.4 |
| HACT 4.51 GM/FT           | 2750   | 2770  | 2790  | 2810  | 2830  | 2850  | 2870  | 2890  | 2910  | 2930  | 2950  | 2970  | 2990  | 3010  | 3030  | 3050  | 107.4 |
| (00451 KG/FT)             | 2530   | 2550  | 2570  | 2590  | 2610  | 2630  | 2650  | 2670  | 2690  | 2710  | 2730  | 2750  | 2770  | 2790  | 2810  | 2830  | 107.4 |
| NFA 625A. RPM             | 3170   | 3190  | 3210  | 3230  | 3250  | 3270  | 3290  | 3310  | 3330  | 3350  | 3370  | 3390  | 3410  | 3430  | 3450  | 3470  | 107.4 |
| ( 655. 4A/SEC)            | 4000   | 4020  | 4040  | 4060  | 4080  | 4100  | 4120  | 4140  | 4160  | 4180  | 4200  | 4220  | 4240  | 4260  | 4280  | 4300  | 107.4 |
| NFK 6342. RPM             | 5070   | 5090  | 5110  | 5130  | 5150  | 5170  | 5190  | 5210  | 5230  | 5250  | 5270  | 5290  | 5310  | 5330  | 5350  | 5370  | 107.4 |
| ( 664. 4A/SEC)            | 6300   | 6320  | 6340  | 6360  | 6380  | 6400  | 6420  | 6440  | 6460  | 6480  | 6500  | 6520  | 6540  | 6560  | 6580  | 6600  | 107.4 |
| NFD 8923. RPM             | 8000   | 8020  | 8040  | 8060  | 8080  | 8100  | 8120  | 8140  | 8160  | 8180  | 8200  | 8220  | 8240  | 8260  | 8280  | 8300  | 107.4 |
| ( 924. 4A/SEC)            | 10000  | 10020 | 10040 | 10060 | 10080 | 10100 | 10120 | 10140 | 10160 | 10180 | 10200 | 10220 | 10240 | 10260 | 10280 | 10300 | 107.4 |
| NO. OF BLADES 15          | 12570  | 12590 | 12610 | 12630 | 12650 | 12670 | 12690 | 12710 | 12730 | 12750 | 12770 | 12790 | 12810 | 12830 | 12850 | 12870 | 107.4 |
| PA. TIP SPEED 546. FT/SEC | 16000  | 16020 | 16040 | 16060 | 16080 | 16100 | 16120 | 16140 | 16160 | 16180 | 16200 | 16220 | 16240 | 16260 | 16280 | 16300 | 107.4 |
|                           | 25000  | 25020 | 25040 | 25060 | 25080 | 25100 | 25120 | 25140 | 25160 | 25180 | 25200 | 25220 | 25240 | 25260 | 25280 | 25300 | 107.4 |
|                           | 31500  | 31520 | 31540 | 31560 | 31580 | 31600 | 31620 | 31640 | 31660 | 31680 | 31700 | 31720 | 31740 | 31760 | 31780 | 31800 | 107.4 |
|                           | 40000  | 40020 | 40040 | 40060 | 40080 | 40100 | 40120 | 40140 | 40160 | 40180 | 40200 | 40220 | 40240 | 40260 | 40280 | 40300 | 107.4 |
|                           | 50000  | 50020 | 50040 | 50060 | 50080 | 50100 | 50120 | 50140 | 50160 | 50180 | 50200 | 50220 | 50240 | 50260 | 50280 | 50300 | 107.4 |
|                           | 43000  | 43020 | 43040 | 43060 | 43080 | 43100 | 43120 | 43140 | 43160 | 43180 | 43200 | 43220 | 43240 | 43260 | 43280 | 43300 | 107.4 |
|                           | 80000  | 80020 | 80040 | 80060 | 80080 | 80100 | 80120 | 80140 | 80160 | 80180 | 80200 | 80220 | 80240 | 80260 | 80280 | 80300 | 107.4 |
| OVERALL MEASURED          |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 120.1 |
| OVERALL CALCULATED        | 82.5   | 83.8  | 84.8  | 87.3  | 89.4  | 92.2  | 94.5  | 96.9  | 97.6  | 93.9  | 91.4  |       |       |       |       |       | 120.1 |
| PMDB                      | 91.7   | 93.0  | 94.2  | 95.9  | 97.7  | 100.5 | 102.8 | 104.4 | 105.5 | 103.6 | 100.2 |       |       |       |       |       | 120.1 |

|                           | 57     | 62     | 71     | 81    | 91     | 101    | 111    | 122    | 133    | 145    | 159    | 0    | 0   | 0   | 0   | 0   |
|---------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|
| PRFC                      | (0.02) | (1.13) | (1.24) | (1.4) | (1.54) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) |
| SIZELINE 200. FT.         | 50     |        |        |       |        |        |        |        |        |        |        |      |     |     |     |     |
| (60.96 M)                 | 63     |        |        |       |        |        |        |        |        |        |        |      |     |     |     |     |
| VEHICLE R-45              | 100    | 49.0   | 52.7   | 51.6  | 48.2   | 47.5   | 47.7   | 48.3   | 48.7   | 48.5   | 49.7   | 49.6 |     |     |     |     |
| CONFIG 75-7               | 125    | 44.5   | 47.9   | 50.2  | 48.6   | 50.7   | 49.3   | 49.0   | 51.1   | 50.2   | 49.6   | 48.9 |     |     |     |     |
| LOC SCHEMECTARY           | 160    | 44.6   | 46.8   | 46.9  | 48.1   | 48.4   | 48.5   | 49.4   | 50.8   | 50.6   | 50.7   | 49.4 |     |     |     |     |
| DATE 1/22/75              | 200    | 43.0   | 44.4   | 46.3  | 48.0   | 49.3   | 51.4   | 51.3   | 52.7   | 52.2   | 52.3   | 51.0 |     |     |     |     |
| RUN 64/3                  | 250    | 47.1   | 48.6   | 50.2  | 50.9   | 51.5   | 52.1   | 52.7   | 52.8   | 51.6   | 50.9   | 49.0 |     |     |     |     |
| TAPE                      | 315    | 47.3   | 49.8   | 51.1  | 51.1   | 51.9   | 52.0   | 51.9   | 52.2   | 51.2   | 50.5   | 48.1 |     |     |     |     |
| BAR 30-1 M2               | 400    | 45.5   | 47.4   | 48.3  | 48.5   | 49.8   | 50.9   | 51.0   | 51.1   | 50.4   | 49.8   | 47.1 |     |     |     |     |
| (015R4. M/M2)             | 500    | 43.6   | 45.6   | 47.0  | 48.4   | 49.0   | 50.9   | 51.9   | 52.0   | 50.7   | 49.7   | 45.8 |     |     |     |     |
| TAMB 45. DEG F            | 600    | 45.8   | 47.0   | 49.1  | 51.3   | 52.4   | 53.8   | 54.8   | 55.1   | 53.6   | 51.5   | 46.1 |     |     |     |     |
| (250. DEG M)              | 800    | 45.9   | 47.3   | 48.7  | 51.2   | 51.8   | 53.7   | 54.2   | 54.2   | 53.7   | 51.3   | 44.3 |     |     |     |     |
| T.ET 39. DEG F            | 1000   | 43.0   | 45.4   | 47.4  | 48.1   | 50.9   | 53.3   | 54.3   | 54.6   | 54.5   | 51.3   | 43.2 |     |     |     |     |
| (277. DEG M)              | 1200   | 42.8   | 44.6   | 46.7  | 48.5   | 51.1   | 51.9   | 53.4   | 53.9   | 53.3   | 51.1   | 42.6 |     |     |     |     |
| HACT 4.51 GM/M3           | 1400   | 42.6   | 44.4   | 46.5  | 49.1   | 51.7   | 53.6   | 53.7   | 53.5   | 53.1   | 51.3   | 41.7 |     |     |     |     |
| (.0045) KG/M3             | 2000   | 43.4   | 42.2   | 44.1  | 46.0   | 47.0   | 48.9   | 48.8   | 48.8   | 47.8   | 45.0   | 37.9 |     |     |     |     |
| NFA 6256. RPM             | 2500   | 39.7   | 42.5   | 44.4  | 46.6   | 48.4   | 49.7   | 49.1   | 46.0   | 46.0   | 43.7   | 37.0 |     |     |     |     |
| (655. RAT/SEC)            | 3150   | 38.3   | 40.0   | 42.1  | 42.9   | 47.1   | 49.9   | 49.8   | 49.2   | 50.2   | 45.0   | 36.2 |     |     |     |     |
| NFM 6342. RPM             | 4000   | 37.8   | 40.7   | 42.6  | 45.7   | 48.0   | 50.2   | 52.0   | 51.0   | 52.6   | 46.0   | 36.6 |     |     |     |     |
| (664. RAD/SEC)            | 5000   | 37.4   | 40.2   | 42.6  | 44.9   | 48.2   | 50.7   | 55.2   | 55.3   | 54.2   | 48.8   | 36.9 |     |     |     |     |
| NFD 8823. RPM             | 6300   | 37.9   | 40.9   | 44.0  | 48.4   | 48.6   | 52.7   | 55.0   | 56.0   | 55.2   | 48.5   | 36.4 |     |     |     |     |
| (924. RAT/SEC)            | 8000   | 37.1   | 40.4   | 43.2  | 46.7   | 49.3   | 52.6   | 54.8   | 56.7   | 54.9   | 48.5   | 34.9 |     |     |     |     |
| NO. OF BLADES 15          | 10000  | 35.3   | 39.0   | 42.2  | 47.3   | 47.6   | 53.1   | 55.5   | 56.4   | 54.4   | 45.1   | 31.7 |     |     |     |     |
| FAH TIP SPEED 546. FT/SEC | 12500  | 36.2   | 39.2   | 43.5  | 47.2   | 52.6   | 55.6   | 57.0   | 58.2   | 56.0   | 43.6   | 28.2 |     |     |     |     |
|                           | 15000  | 27.7   | 32.1   | 36.8  | 43.0   | 47.0   | 49.6   | 50.5   | 50.7   | 47.3   | 35.2   | 16.8 |     |     |     |     |
|                           | 20000  | 21.1   | 25.8   | 30.5  | 37.1   | 40.1   | 43.5   | 45.1   | 45.1   | 41.3   | 27.0   | 3.0  |     |     |     |     |
|                           | 25000  | 19.7   | 16.3   | 21.7  | 28.0   | 31.5   | 34.8   | 35.3   | 34.3   | 29.1   | 13.1   |      |     |     |     |     |
|                           | 31500  |        | 4.1    | 10.0  | 18.3   | 21.5   | 23.9   | 23.4   | 21.4   | 13.3   |        |      |     |     |     |     |
|                           | 40000  |        |        |       | 0.1    | 3.7    | 5.8    | 4.4    | 0.3    |        |        |      |     |     |     |     |
|                           | 50000  |        |        |       |        |        |        |        |        |        |        |      |     |     |     |     |
|                           | 63000  |        |        |       |        |        |        |        |        |        |        |      |     |     |     |     |
|                           | 80000  |        |        |       |        |        |        |        |        |        |        |      |     |     |     |     |
| OVERALL CALCULATED        |        | 57.2   | 59.5   | 60.8  | 62.1   | 63.6   | 65.5   | 66.7   | 67.3   | 66.2   | 62.9   | 58.9 |     |     |     |     |
| PNSR                      |        | 65.5   | 66.0   | 70.0  | 72.1   | 74.0   | 74.3   | 76.2   | 78.5   | 77.6   | 72.9   | 65.0 |     |     |     |     |



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|                    | FREQ. | 53.     | 62.     | 71.     | 81.     | 91.     | 101.    | 111.    | 122.    | 133.    | 145.    | 156.    | 0.  | 0.   | 0.   | 0.   | 0.   | 0.   | PHL |       |
|--------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|------|------|------|------|------|-----|-------|
|                    |       | (1.221) | (1.271) | (1.321) | (1.371) | (1.421) | (1.471) | (1.521) | (1.571) | (1.621) | (1.671) | (1.721) | 10. | 110. | 110. | 110. | 110. | 110. | 1   |       |
| RADIAL 17. FT.     | 70    |         |         |         |         |         |         |         |         |         |         |         |     |      |      |      |      |      |     |       |
| ( 5. M)            | 80    |         |         |         |         |         |         |         |         |         |         |         |     |      |      |      |      |      |     |       |
| VEHICLE            | 100   | 67.0    | 71.2    | 72.9    | 71.4    | 70.6    | 71.7    | 71.6    | 72.4    | 75.7    | 80.3    | 84.1    |     |      |      |      |      |      |     | 109.6 |
| ( B-55)            | 125   | 72.3    | 78.6    | 79.6    | 77.2    | 75.4    | 75.2    | 74.4    | 77.4    | 78.2    | 80.9    | 83.6    |     |      |      |      |      |      |     | 112.2 |
| CONFIG             | 160   | 72.3    | 72.6    | 72.9    | 72.4    | 73.6    | 73.9    | 75.0    | 76.9    | 79.0    | 81.3    | 84.1    |     |      |      |      |      |      |     | 111.2 |
| LCC SCHEMECTADY    | 200   | 71.0    | 71.1    | 71.9    | 73.2    | 74.1    | 76.4    | 77.4    | 78.9    | 80.2    | 83.3    | 85.1    |     |      |      |      |      |      |     | 112.4 |
| DATE 1/22/75       | 250   | 74.3    | 75.1    | 76.1    | 76.4    | 76.9    | 77.1    | 78.8    | 79.6    | 80.7    | 82.9    | 84.3    |     |      |      |      |      |      |     | 113.1 |
| RUN 64/4           | 315   | 75.8    | 75.9    | 75.6    | 76.7    | 77.1    | 77.7    | 78.3    | 78.6    | 79.7    | 82.1    | 83.3    |     |      |      |      |      |      |     | 112.7 |
| TAPE               | 400   | 73.5    | 74.1    | 74.1    | 74.9    | 75.1    | 76.4    | 77.4    | 78.4    | 79.5    | 81.6    | 82.3    |     |      |      |      |      |      |     | 111.7 |
| BAR 33-1 MG        | 500   | 71.3    | 71.9    | 71.9    | 73.7    | 74.1    | 76.2    | 77.6    | 78.7    | 79.7    | 81.6    | 81.6    |     |      |      |      |      |      |     | 111.4 |
| (01534. 1/2)       | 600   | 72.1    | 73.1    | 74.6    | 75.9    | 77.2    | 79.2    | 80.9    | 81.2    | 81.7    | 82.8    | 81.4    |     |      |      |      |      |      |     | 113.4 |
| TAMB 44. DEG F     | 800   | 73.6    | 74.1    | 74.9    | 76.2    | 77.4    | 79.7    | 80.6    | 81.4    | 82.0    | 82.3    | 80.9    |     |      |      |      |      |      |     | 113.4 |
| (280. DEG F)       | 1000  | 71.4    | 72.4    | 73.4    | 75.2    | 76.1    | 78.4    | 80.1    | 80.9    | 82.0    | 82.1    | 79.6    |     |      |      |      |      |      |     | 112.8 |
| T-FT 39. DEG F     | 1200  | 71.2    | 71.7    | 72.5    | 74.5    | 75.2    | 77.7    | 79.1    | 80.4    | 81.7    | 81.6    | 79.4    |     |      |      |      |      |      |     | 112.2 |
| (277. DEG F)       | 1500  | 70.2    | 71.4    | 72.4    | 74.3    | 74.7    | 76.7    | 77.8    | 77.9    | 78.5    | 79.4    | 77.4    |     |      |      |      |      |      |     | 110.4 |
| HACT 4.81 GM/MS    | 2000  | 69.2    | 70.2    | 71.4    | 73.3    | 74.0    | 76.0    | 76.6    | 78.9    | 78.8    | 77.9    | 75.6    |     |      |      |      |      |      |     | 109.4 |
| (00481 KG/MS)      | 2500  | 69.4    | 70.5    | 71.4    | 73.4    | 75.3    | 76.8    | 76.3    | 76.1    | 77.2    | 76.9    | 75.3    |     |      |      |      |      |      |     | 109.3 |
| NFA 7039. RPM      | 3100  | 67.4    | 69.0    | 69.9    | 71.9    | 74.0    | 76.5    | 78.0    | 77.3    | 80.0    | 76.7    | 74.3    |     |      |      |      |      |      |     | 109.9 |
| ( 737. RAD/SEC)    | 4000  | 68.1    | 69.2    | 70.8    | 73.5    | 75.5    | 78.0    | 80.7    | 80.5    | 83.9    | 79.9    | 75.5    |     |      |      |      |      |      |     | 112.7 |
| NFK 7143. RPM      | 5000  | 67.3    | 69.2    | 70.3    | 72.2    | 75.0    | 79.4    | 82.4    | 84.4    | 83.6    | 80.3    | 76.0    |     |      |      |      |      |      |     | 114.0 |
| ( 748. RAD/SEC)    | 6300  | 65.9    | 70.2    | 71.7    | 74.5    | 76.4    | 80.7    | 82.9    | 85.0    | 86.4    | 82.3    | 77.5    |     |      |      |      |      |      |     | 113.4 |
| NFD 8823. RPM      | 8000  | 60.3    | 71.2    | 72.3    | 75.7    | 78.1    | 82.1    | 85.5    | 87.2    | 88.8    | 84.5    | 78.6    |     |      |      |      |      |      |     | 117.7 |
| ( 924. RAD/SEC)    | 10000 | 65.9    | 71.3    | 73.6    | 76.6    | 79.5    | 84.2    | 87.2    | 88.3    | 89.1    | 83.5    | 78.3    |     |      |      |      |      |      |     | 118.8 |
| NO. OF BLADES 15   | 12500 | 70.4    | 72.3    | 74.2    | 78.4    | 81.8    | 85.1    | 87.4    | 90.6    | 91.1    | 85.1    | 79.6    |     |      |      |      |      |      |     | 120.5 |
| FAN TIP SPEED      | 16000 | 69.2    | 70.7    | 74.3    | 79.3    | 82.3    | 85.8    | 87.4    | 90.2    | 90.1    | 84.2    | 79.0    |     |      |      |      |      |      |     | 120.5 |
| 615. FT/SEC        | 20000 | 68.5    | 69.9    | 73.3    | 78.0    | 81.9    | 85.0    | 87.7    | 90.8    | 90.8    | 85.0    | 78.8    |     |      |      |      |      |      |     | 121.3 |
|                    | 25000 | 68.7    | 69.2    | 72.3    | 77.3    | 80.7    | 83.8    | 86.3    | 88.3    | 89.7    | 84.5    | 77.3    |     |      |      |      |      |      |     | 120.4 |
|                    | 31500 | 65.9    | 68.4    | 71.8    | 76.9    | 80.3    | 83.5    | 85.3    | 87.1    | 87.5    | 82.9    | 74.9    |     |      |      |      |      |      |     | 120.0 |
|                    | 40000 | 65.8    | 68.4    | 69.6    | 73.8    | 77.5    | 80.0    | 82.3    | 83.6    | 84.1    | 79.8    | 76.2    |     |      |      |      |      |      |     | 118.1 |
|                    | 50000 | 67.0    | 68.1    | 67.5    | 69.8    | 73.7    | 76.0    | 78.7    | 78.6    | 79.0    | 76.0    | 65.9    |     |      |      |      |      |      |     | 115.8 |
|                    | 63000 | 68.8    | 65.5    | 67.5    | 66.4    | 68.4    | 70.6    | 72.0    | 71.3    | 72.0    | 69.7    | 64.0    |     |      |      |      |      |      |     | 112.6 |
|                    | 80000 | 72.1    | 68.4    | 70.7    | 67.7    | 67.7    | 66.8    | 68.8    | 67.9    | 67.1    | 67.2    | 65.8    |     |      |      |      |      |      |     | 115.6 |
| OVERALL MEASURED   |       |         |         |         |         |         |         |         |         |         |         |         |     |      |      |      |      |      |     |       |
| OVERALL CALCULATED |       | 85.6    | 86.3    | 88.1    | 90.2    | 92.1    | 95.0    | 97.1    | 99.0    | 99.7    | 96.6    | 94.9    |     |      |      |      |      |      |     | 120.7 |
| PHDN               |       | 95.1    | 96.3    | 97.4    | 99.3    | 100.9   | 103.6   | 105.7   | 107.6   | 108.1   | 106.6   | 103.4   |     |      |      |      |      |      |     |       |

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|                    | FRQ.   | 37°    | 62°    | 71°    | 81°    | 91°    | 101°   | 111°   | 121°   | 131°   | 145°   | 169°   | 0°    | 0°    | 0°    | 0°    | 0°    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
|                    | (1.72) | (1.73) | (1.74) | (1.41) | (1.34) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.93) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) |
| SIDELINE 200. FT.  | 50     |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |
| ( 60.9A M)         | 90     |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |
| VEHICLE P-55       | 120    | 47.4   | 49.2   | 50.4   | 49.7   | 47.0   | 49.7   | 49.4   | 49.3   | 51.3   | 53.4   | 54.0   |       |       |       |       |       |
| CONFIG 75-7        | 140    | 47.0   | 55.4   | 57.5   | 56.4   | 53.7   | 53.4   | 52.3   | 54.3   | 53.7   | 54.2   | 53.4   |       |       |       |       |       |
| LCC SCHEMECTADV    | 270    | 47.4   | 49.7   | 50.7   | 51.6   | 51.9   | 52.0   | 53.2   | 53.7   | 54.3   | 54.5   | 53.6   |       |       |       |       |       |
| DATE 1/2275        | 250    | 47.1   | 48.1   | 49.6   | 51.2   | 52.3   | 54.4   | 54.9   | 54.6   | 54.5   | 54.4   | 54.4   |       |       |       |       |       |
| RUN 64/4           | 315    | 50.2   | 52.0   | 53.7   | 54.4   | 55.3   | 55.1   | 56.3   | 56.2   | 55.4   | 55.7   | 53.5   |       |       |       |       |       |
| TAFE               | 450    | 51.6   | 52.7   | 54.1   | 54.5   | 55.2   | 55.5   | 55.7   | 55.1   | 54.7   | 54.9   | 52.3   |       |       |       |       |       |
| BAR 30.1 HG        | 550    | 47.3   | 50.7   | 51.5   | 52.7   | 53.1   | 54.2   | 54.6   | 54.8   | 54.4   | 54.2   | 51.0   |       |       |       |       |       |
| (015A4. N/M2)      | 650    | 44.7   | 48.7   | 49.2   | 51.4   | 52.0   | 53.7   | 54.4   | 54.9   | 54.5   | 54.0   | 50.0   |       |       |       |       |       |
| TAMB 24. DEG F     | 800    | 48.6   | 49.7   | 51.9   | 53.6   | 54.9   | 56.5   | 57.9   | 57.3   | 56.4   | 55.1   | 49.5   |       |       |       |       |       |
| (270. DEG M)       | 1000   | 48.7   | 50.5   | 52.0   | 53.7   | 55.0   | 57.2   | 57.5   | 57.4   | 56.4   | 54.4   | 48.7   |       |       |       |       |       |
| TRET 39. DEG F     | 1200   | 48.6   | 48.6   | 50.7   | 52.4   | 53.7   | 55.8   | 56.9   | 56.3   | 56.3   | 53.9   | 47.1   |       |       |       |       |       |
| (277. DEG M)       | 1400   | 46.2   | 47.7   | 49.5   | 51.3   | 52.5   | 54.7   | 55.8   | 56.1   | 55.4   | 53.2   | 46.5   |       |       |       |       |       |
| MACT 4.81 GM/MT    | 2000   | 44.7   | 47.3   | 49.0   | 51.4   | 51.9   | 53.4   | 54.3   | 53.4   | 52.4   | 50.7   | 44.1   |       |       |       |       |       |
| (.00461 KG/MT)     | 2500   | 43.7   | 45.9   | 47.8   | 50.2   | 51.0   | 52.0   | 52.9   | 52.2   | 51.6   | 48.6   | 41.9   |       |       |       |       |       |
| NFA 7030. RPM      | 3150   | 43.4   | 46.0   | 47.7   | 50.3   | 51.7   | 53.4   | 54.4   | 51.2   | 50.6   | 47.5   | 41.2   |       |       |       |       |       |
| ( 737. RA/SEC)     | 4000   | 41.4   | 44.2   | 45.8   | 48.3   | 50.5   | 52.7   | 53.4   | 52.1   | 51.0   | 46.5   | 39.4   |       |       |       |       |       |
| NFK 7143. RPM      | 5000   | 41.6   | 43.7   | 46.3   | 49.7   | 51.7   | 54.1   | 56.1   | 54.8   | 54.3   | 49.3   | 39.5   |       |       |       |       |       |
| ( 748. RAD/SEC)    | 6300   | 41.0   | 43.6   | 45.5   | 48.6   | 50.7   | 55.2   | 57.4   | 58.4   | 55.7   | 49.3   | 39.3   |       |       |       |       |       |
| NPD 8023. RPM      | 8000   | 41.2   | 43.9   | 46.3   | 49.5   | 51.5   | 55.7   | 57.3   | 58.1   | 57.5   | 50.0   | 39.1   |       |       |       |       |       |
| ( 924. RAD/SEC)    | 10000  | 47.2   | 43.6   | 45.7   | 49.7   | 52.2   | 56.0   | 58.7   | 59.1   | 54.3   | 50.3   | 37.4   |       |       |       |       |       |
| NO. OF PLATES 15   | 12000  | 37.3   | 41.9   | 45.4   | 49.3   | 52.3   | 56.6   | 58.8   | 58.3   | 56.6   | 46.8   | 33.1   |       |       |       |       |       |
| FAC TIP SPEED      | 16000  | 36.5   | 40.1   | 47.7   | 48.6   | 52.3   | 55.3   | 54.4   | 54.0   | 55.5   | 44.3   | 28.6   |       |       |       |       |       |
| 615. FT/SEC        | 20000  | 30.7   | 34.7   | 40.0   | 45.0   | 49.1   | 52.3   | 52.8   | 53.3   | 49.5   | 36.9   | 18.6   |       |       |       |       |       |
|                    | 25000  | 23.9   | 28.4   | 33.9   | 39.4   | 44.0   | 49.6   | 47.8   | 48.2   | 43.5   | 29.3   | 8.0    |       |       |       |       |       |
|                    | 31500  | 15.0   | 20.0   | 25.7   | 32.2   | 36.1   | 34.6   | 39.2   | 37.7   | 32.8   | 16.7   |        |       |       |       |       |       |
|                    | 40000  | 0.5    | 7.8    | 14.7   | 21.5   | 25.7   | 28.1   | 27.5   | 24.6   | 18.9   |        |        |       |       |       |       |       |
|                    | 50000  |        |        |        | 3.7    | 8.2    | 9.6    | 8.6    | 3.5    |        |        |        |       |       |       |       |       |
|                    | 60000  |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |        |       |       |       |       |       |
| OVERALL CALCULATED | 60.0   | 62.5   | 64.1   | 65.3   | 66.3   | 68.4   | 69.5   | 69.5   | 68.8   | 66.2   | 62.9   |        |       |       |       |       |       |
| PNDB               | 69.0   | 71.4   | 73.2   | 75.7   | 77.3   | 79.6   | 81.1   | 81.3   | 80.6   | 75.8   | 68.7   |        |       |       |       |       |       |

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NO. OF SOUND POSITIVE LEVELS (59. DEG. F. TO PERCENT REL. HUM. BAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

| FREQ.               | NO. OF SOUND POSITIVE LEVELS (59. DEG. F. TO PERCENT REL. HUM. BAY) |      |      |       |       |       |       |       |       |       |       |       |    |    | PWL |    |    |       |
|---------------------|---|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|-----|----|----|-------|
|                     | 53  | 62   | 71   | 81    | 91    | 101   | 111   | 122   | 133   | 145   | 156   | 0     | 0  | 0  |     | 0  | 0  | 0     |
| RADIAL 17. FT.      | 50  | 50   | 50   | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50 | 50 | 50  | 50 | 50 | 50    |
| VEHICLE (S. H)      | 100   | 60.0 | 71.6 | 72.4  | 72.2  | 72.9  | 74.2  | 74.1  | 75.4  | 7A.7  | 83.8  | 87.6  |    |    |     |    |    | 112.5 |
| CONFIG 75-7         | 125   | 74.8 | 77.4 | 77.1  | 75.7  | 76.4  | 77.2  | 7A.1  | 80.2  | 81.0  | 83.8  | 87.1  |    |    |     |    |    | 114.0 |
| LCC SCHEMFACTV      | 160   | 74.8 | 75.9 | 75.4  | 75.0  | 75.6  | 75.9  | 7A.4  | 80.2  | 82.2  | 85.1  | 87.9  |    |    |     |    |    | 114.4 |
| DATE 1/2275         | 200   | 73.8 | 73.6 | 74.4  | 75.4  | 77.1  | 80.1  | 80.1  | 81.9  | 83.5  | 86.1  | 88.3  |    |    |     |    |    | 115.5 |
| RUN 64/5            | 250   | 79.0 | 79.4 | 81.4  | 81.6  | 82.1  | 83.6  | 84.3  | 86.1  | 86.2  | 88.1  | 88.6  |    |    |     |    |    | 118.5 |
| TAFE                | 315   | 78.8 | 7A.9 | 79.4  | 80.2  | 79.8  | 81.2  | 81.6  | 82.6  | 83.7  | 85.6  | 87.1  |    |    |     |    |    | 118.2 |
| BAR 30.1 HG         | 400   | 76.8 | 77.1 | 77.1  | 7A.2  | 78.7  | 79.7  | 80.6  | 81.4  | 82.7  | 84.6  | 86.1  |    |    |     |    |    | 115.0 |
| 101584. K/M2        | 500   | 74.3 | 74.6 | 75.6  | 7A.9  | 77.4  | 79.2  | 81.1  | 81.7  | 83.0  | 84.6  | 84.9  |    |    |     |    |    | 118.5 |
| TAN 44. DEG F       | 600   | 76.1 | 75.9 | 76.9  | 79.2  | 79.9  | 81.7  | 83.1  | 84.2  | 84.5  | 85.1  | 84.6  |    |    |     |    |    | 116.1 |
| (280. DEG W)        | 1000  | 76.6 | 76.9 | 77.9  | 79.2  | 79.9  | 81.9  | 82.8  | 84.1  | 84.2  | 85.1  | 84.6  |    |    |     |    |    | 116.1 |
| TACT 39. DEG F      | 1250  | 74.6 | 75.6 | 76.1  | 77.7  | 79.1  | 81.4  | 82.3  | 83.4  | 84.2  | 84.3  | 83.1  |    |    |     |    |    | 115.3 |
| (277. DEG F)        | 1600  | 74.7 | 74.4 | 76.1  | 77.5  | 78.4  | 80.2  | 81.6  | 82.6  | 84.0  | 84.1  | 82.4  |    |    |     |    |    | 114.8 |
| MACT 4.81 GM/M3     | 2000  | 73.4 | 74.4 | 74.9  | 76.0  | 77.5  | 79.2  | 80.1  | 80.1  | 81.2  | 81.6  | 80.6  |    |    |     |    |    | 112.8 |
| (.00481 KG/M3)      | 2500  | 74.2 | 74.5 | 75.4  | 77.3  | 79.0  | 80.3  | 80.3  | 81.4  | 82.7  | 82.4  | 81.1  |    |    |     |    |    | 113.9 |
| NFA 7820. RPM       | 3150  | 73.2 | 73.7 | 75.4  | 77.4  | 78.3  | 80.0  | 80.1  | 80.1  | 81.0  | 79.9  | 79.3  |    |    |     |    |    | 112.9 |
| ( 819. RAD/SEC)     | 4000  | 77.9 | 72.0 | 72.6  | 74.6  | 77.0  | 78.8  | 7A.5  | 7A.6  | 80.0  | 78.9  | 77.6  |    |    |     |    |    | 111.4 |
| NFK 7936. RPM       | 5000  | 72.1 | 73.2 | 74.3  | 77.1  | 79.8  | 81.5  | 83.7  | 84.0  | 87.2  | 83.1  | 79.3  |    |    |     |    |    | 116.0 |
| ( 831. RAD/SEC)     | 6300  | 70.6 | 71.4 | 73.0  | 75.6  | 7A.0  | 80.9  | 83.2  | 84.9  | 85.6  | 81.8  | 77.7  |    |    |     |    |    | 115.3 |
| NFE 8823. RPM       | 8000  | 71.7 | 73.5 | 75.0  | 78.0  | 79.4  | 84.4  | 86.2  | 86.5  | 89.9  | 84.3  | 79.3  |    |    |     |    |    | 118.7 |
| ( 924. RAD/SEC)     | 10000   | 71.8 | 73.7 | 75.5  | 78.7  | 80.8  | 84.6  | 87.5  | 90.5  | 91.8  | 86.0  | 80.4  |    |    |     |    |    | 120.4 |
| NO. OF BLADES 15    | 12500   | 71.6 | 73.3 | 75.4  | 79.8  | 82.6  | 86.7  | 90.2  | 91.5  | 91.4  | 85.5  | 80.1  |    |    |     |    |    | 121.5 |
| FAN TIP SPEED 16000 | 16000   | 72.9 | 74.3 | 76.7  | 80.4  | 84.6  | 87.6  | 89.1  | 92.8  | 92.6  | 86.9  | 80.8  |    |    |     |    |    | 122.5 |
| 683. FT/SEC         | 20000   | 70.9 | 73.5 | 76.6  | 81.1  | 84.0  | 87.3  | 88.9  | 92.4  | 91.6  | 86.2  | 80.8  |    |    |     |    |    | 122.3 |
|                     | 25000   | 71.0 | 73.6 | 77.3  | 82.0  | 84.6  | 8A.2  | 90.9  | 93.5  | 93.1  | 87.3  | 81.5  |    |    |     |    |    | 124.0 |
|                     | 31500   | 70.8 | 73.2 | 76.8  | 81.3  | 84.2  | 87.1  | 90.0  | 93.6  | 92.7  | 87.0  | 80.5  |    |    |     |    |    | 124.3 |
|                     | 40000   | 69.7 | 72.4 | 76.1  | 80.9  | 84.3  | 87.3  | 89.0  | 91.6  | 91.0  | 86.1  | 78.4  |    |    |     |    |    | 123.9 |
|                     | 50000   | 6A.0 | 69.9 | 73.6  | 77.6  | 81.0  | 84.5  | 86.0  | 87.9  | 87.8  | 82.8  | 73.0  |    |    |     |    |    | 122.0 |
|                     | 63000   | 67.7 | 67.3 | 70.3  | 74.1  | 76.9  | 80.0  | 82.2  | 82.1  | 82.5  | 78.8  | 68.6  |    |    |     |    |    | 119.1 |
|                     | 80000   | 68.6 | 68.0 | 68.3  | 6A.2  | 70.7  | 73.3  | 75.3  | 74.5  | 75.0  | 72.5  | 64.5  |    |    |     |    |    | 115.1 |
| OVERALL MEASURED    |   | 72.1 | 70.9 | 70.7  | 6A.2  | 67.7  | 69.0  | 69.5  | 69.1  | 69.1  | 68.0  | 65.8  |    |    |     |    |    | 116.3 |
| OVERALL CALCULATED  |   | 88.6 | 89.4 | 98.8  | 93.1  | 95.1  | 97.9  | 99.9  | 102.3 | 102.4 | 99.3  | 98.3  |    |    |     |    |    | 133.7 |
| PNDB                |   | 98.5 | 99.4 | 100.5 | 102.6 | 104.4 | 106.9 | 108.4 | 110.8 | 111.2 | 108.8 | 108.8 |    |    |     |    |    |       |

| PARAMETER                 | 50     | 62     | 74     | 86     | 98     | 110    | 122    | 134    | 146    | 158    | 0      | 0    | 0   | 0   | 0   | 0   |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|
| ANGLE (DEG)               | (0.87) | (1.08) | (1.29) | (1.41) | (1.53) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)  | (0) | (0) | (0) | (0) |
| STRETCH 200. FT.          | 50     |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| VEHICLE 100-96 M          | 100    | 44.4   | 48.9   | 50.3   | 50.5   | 51.3   | 52.4   | 51.9   | 52.3   | 54.3   | 57.3   | 57.5 |     |     |     |     |
| CONFIG 75-7               | 125    | 51.0   | 54.6   | 55.0   | 55.0   | 54.7   | 55.3   | 55.4   | 57.0   | 54.4   | 57.2   | 58.9 |     |     |     |     |
| LCC SCHEMATIC             | 160    | 50.3   | 51.0   | 53.2   | 54.1   | 53.9   | 54.0   | 56.0   | 56.9   | 57.6   | 58.3   | 57.4 |     |     |     |     |
| DATE 1/22/75              | 200    | 49.3   | 50.6   | 52.1   | 53.5   | 55.3   | 56.2   | 57.7   | 58.6   | 58.7   | 59.1   | 57.7 |     |     |     |     |
| RUN: 64/5                 | 250    | 55.1   | 58.3   | 59.8   | 59.6   | 60.2   | 61.6   | 61.8   | 62.7   | 61.3   | 61.8   | 57.7 |     |     |     |     |
| TAPE                      | 315    | 54.3   | 55.7   | 56.9   | 58.1   | 57.7   | 59.0   | 59.0   | 59.1   | 58.7   | 58.3   | 58.0 |     |     |     |     |
| BAR 30-1 MC               | 400    | 52.5   | 53.7   | 54.5   | 54.9   | 56.4   | 57.4   | 57.9   | 57.8   | 57.6   | 57.2   | 54.8 |     |     |     |     |
| (01504. W/M2)             | 500    | 49.3   | 51.3   | 51.3   | 54.7   | 55.2   | 56.9   | 58.3   | 57.9   | 57.7   | 57.0   | 53.3 |     |     |     |     |
| TAMP 44. DEG F            | 630    | 51.6   | 52.4   | 54.1   | 56.4   | 57.7   | 59.3   | 60.2   | 60.3   | 59.1   | 57.3   | 52.8 |     |     |     |     |
| (200. DEG F)              | 800    | 51.7   | 53.3   | 55.0   | 56.7   | 57.5   | 59.4   | 59.8   | 60.2   | 58.7   | 57.1   | 52.5 |     |     |     |     |
| TLCT 39. DEG F            | 1000   | 49.7   | 51.9   | 53.1   | 54.1   | 56.7   | 58.8   | 59.2   | 59.3   | 58.5   | 56.2   | 50.6 |     |     |     |     |
| (277. DEG F)              | 1250   | 48.2   | 50.5   | 53.0   | 54.1   | 55.5   | 57.4   | 58.3   | 58.3   | 58.1   | 55.7   | 49.5 |     |     |     |     |
| MACT 4.61 CM/MS           | 1600   | 48.7   | 50.3   | 51.5   | 53.1   | 54.7   | 56.3   | 56.4   | 55.6   | 55.1   | 52.9   | 47.3 |     |     |     |     |
| (-30481 CM/MS)            | 2000   | 48.7   | 50.1   | 51.8   | 54.2   | 56.3   | 57.1   | 56.6   | 56.7   | 56.4   | 53.3   | 47.4 |     |     |     |     |
| NFA 7823. RPM             | 2500   | 47.5   | 49.2   | 51.7   | 54.1   | 55.1   | 56.7   | 56.9   | 55.2   | 54.4   | 50.5   | 45.2 |     |     |     |     |
| ( 819. RPM/SEC)           | 3150   | 44.3   | 47.2   | 48.6   | 51.1   | 53.6   | 55.2   | 54.3   | 53.3   | 53.0   | 49.1   | 42.7 |     |     |     |     |
| NFR 7936. RPM             | 4000   | 45.6   | 47.9   | 49.4   | 53.2   | 55.9   | 57.5   | 59.1   | 58.3   | 58.4   | 52.5   | 43.3 |     |     |     |     |
| ( 831. RAD/SEC)           | 5000   | 43.7   | 45.8   | 48.3   | 51.4   | 53.9   | 56.7   | 58.3   | 58.9   | 57.7   | 50.8   | 41.1 |     |     |     |     |
| MFD 8023. RPM             | 6300   | 43.9   | 47.1   | 49.5   | 53.1   | 54.6   | 59.4   | 60.5   | 61.6   | 61.0   | 52.0   | 40.8 |     |     |     |     |
| ( 924. RPM/SEC)           | 8000   | 42.7   | 46.1   | 48.9   | 52.7   | 55.3   | 58.5   | 60.7   | 62.3   | 61.3   | 51.4   | 39.1 |     |     |     |     |
| NO. OF BLADES 15          | 12500  | 40.8   | 43.9   | 47.6   | 52.3   | 55.3   | 59.3   | 61.8   | 61.5   | 58.8   | 48.6   | 34.9 |     |     |     |     |
| FAN TIP SPEED 683. FT/SEC | 16000  | 39.0   | 42.4   | 46.2   | 50.5   | 55.0   | 57.8   | 58.3   | 60.3   | 57.8   | 46.1   | 29.9 |     |     |     |     |
| 20000                     | 32.4   | 37.5   | 42.2   | 47.7   | 50.9   | 53.4   | 54.3   | 55.5   | 51.0   | 38.9   | 28.4   |      |     |     |     |     |
| 25000                     | 26.4   | 32.2   | 37.9   | 43.4   | 46.8   | 49.9   | 51.1   | 51.0   | 45.7   | 31.5   | 8.7    |      |     |     |     |     |
| 31500                     | 17.5   | 24.3   | 30.2   | 36.2   | 39.6   | 41.8   | 42.9   | 42.9   | 35.8   | 19.2   |        |      |     |     |     |     |
| 40000                     | 3.6    | 11.8   | 18.8   | 25.5   | 29.7   | 31.9   | 31.2   | 29.1   | 20.3   | 0.5    |        |      |     |     |     |     |
| 50000                     |        |        | 0.8    | 7.4    | 11.7   | 14.1   | 12.3   | 7.7    |        |        |        |      |     |     |     |     |
| 60000                     |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| 70000                     |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| 80000                     |        |        |        |        |        |        |        |        |        |        |        |      |     |     |     |     |
| OVERALL CALCULATION       |        | 63.2   | 64.7   | 66.5   | 68.2   | 69.4   | 71.4   | 72.2   | 72.6   | 71.8   | 69.4   | 66.5 |     |     |     |     |
| PH20                      |        | 72.6   | 74.5   | 76.5   | 78.9   | 80.8   | 82.7   | 83.7   | 84.0   | 83.6   | 78.8   | 72.4 |     |     |     |     |

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LF/F15 (5% DFG, F<sub>0</sub> 70 PERCENT REL. HUM. DAY) PRNC. DATE = MONTH 3 DAY 27 HR. 13.0

|                    |                 | 5%     | 6%     | 7%     | 8%     | 9%     | 10%    | 11%    | 12%    | 13%    | 14%    | 15%    | 16%     | 17%     | 18%     | 19%     | 20%     | PWL     |
|--------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
|                    | FREQ.           | (1.22) | (1.50) | (1.84) | (2.24) | (2.75) | (3.38) | (4.15) | (5.07) | (6.17) | (7.57) | (9.30) | (11.41) | (14.04) | (17.34) | (21.48) | (26.73) | (33.43) |
|                    | 50              |        |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |
|                    | 63              |        |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |
|                    | 80              |        |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |
| RACIAL             | 17. FT.         | 100    | 68.3   | 71.4   | 72.4   | 72.2   | 73.1   | 74.4   | 74.4   | 74.4   | 75.4   | 78.7   | 83.6    | 87.6    |         |         |         | 112.5   |
| VEHICLE            | ( 5. MI)        | 125    | 76.7   | 77.1   | 76.5   | 75.9   | 75.4   | 77.2   | 78.4   | 80.4   | 80.7   | 83.6   | 87.6    |         |         |         |         | 114.1   |
| CONFIG             | 75-7            | 160    | 75.0   | 76.1   | 75.9   | 76.4   | 75.9   | 76.7   | 78.6   | 80.2   | 82.2   | 85.3   | 87.4    |         |         |         |         | 114.5   |
| LCC SCHEMECTARY    |                 | 200    | 73.8   | 73.4   | 74.1   | 74.7   | 77.1   | 78.9   | 79.9   | 81.9   | 83.2   | 86.6   | 88.3    |         |         |         |         | 115.4   |
| DATE               | 1/2273          | 250    | 79.7   | 79.4   | 81.1   | 81.9   | 82.4   | 83.4   | 84.3   | 85.6   | 88.7   | 87.8   | 88.8    |         |         |         |         | 116.4   |
| RUM                | 6476            | 315    | 74.8   | 73.9   | 79.1   | 79.0   | 79.9   | 80.7   | 81.3   | 82.4   | 82.7   | 85.9   | 86.8    |         |         |         |         | 115.0   |
| TARE               |                 | 400    | 76.8   | 75.9   | 77.4   | 77.9   | 78.6   | 79.2   | 80.4   | 81.4   | 82.5   | 84.9   | 85.8    |         |         |         |         | 114.9   |
| RAC                | 30-1 MG         | 500    | 74.3   | 74.6   | 75.9   | 76.2   | 77.1   | 78.9   | 80.4   | 81.4   | 82.5   | 84.3   | 84.9    |         |         |         |         | 114.2   |
|                    | (01584. 4/M2)   | 630    | 75.6   | 75.6   | 77.1   | 77.7   | 79.9   | 81.7   | 83.4   | 83.9   | 84.5   | 85.3   | 84.6    |         |         |         |         | 116.1   |
| TAMB               | 44. DEG F       | 800    | 76.9   | 76.9   | 78.1   | 78.9   | 79.7   | 81.7   | 82.6   | 83.6   | 84.0   | 84.8   | 84.1    |         |         |         |         | 115.6   |
|                    | (280. DEG M)    | 1000   | 74.4   | 74.9   | 76.4   | 77.7   | 79.1   | 81.2   | 82.1   | 82.9   | 84.0   | 84.3   | 82.9    |         |         |         |         | 115.1   |
| TACT               | 39. DEG F       | 1250   | 74.2   | 74.2   | 75.6   | 77.5   | 78.4   | 80.2   | 81.6   | 82.4   | 83.5   | 83.6   | 82.4    |         |         |         |         | 114.5   |
|                    | (277. DEG V)    | 1500   | 73.2   | 73.4   | 74.5   | 76.5   | 77.2   | 79.0   | 79.8   | 80.1   | 80.7   | 81.4   | 80.9    |         |         |         |         | 112.7   |
| HACT               | 4.81 GM/M3      | 2000   | 73.7   | 74.5   | 75.9   | 77.3   | 78.5   | 80.0   | 80.1   | 82.1   | 83.2   | 81.9   | 80.4    |         |         |         |         | 113.9   |
|                    | (.00481 KG/M3)  | 2500   | 73.2   | 73.7   | 75.4   | 77.4   | 78.3   | 79.0   | 79.5   | 79.9   | 81.0   | 79.9   | 78.4    |         |         |         |         | 112.7   |
| NFA                | 7415. RPP       | 3150   | 77.9   | 71.5   | 73.1   | 74.9   | 76.5   | 79.0   | 78.5   | 78.6   | 80.2   | 78.7   | 77.3    |         |         |         |         | 111.4   |
|                    | ( 818. RAD/SEC) | 4000   | 71.4   | 72.9   | 74.3   | 77.4   | 80.3   | 81.2   | 83.2   | 84.3   | 87.4   | 82.9   | 79.3    |         |         |         |         | 116.0   |
| NPK                | 7932. RPP       | 5000   | 71.8   | 71.2   | 73.3   | 75.9   | 78.3   | 80.4   | 83.4   | 84.7   | 85.6   | 82.1   | 78.0    |         |         |         |         | 115.3   |
|                    | ( 836. RAD/SEC) | 6300   | 72.4   | 73.0   | 75.7   | 77.4   | 79.4   | 84.2   | 86.2   | 87.8   | 89.9   | 84.0   | 79.0    |         |         |         |         | 118.5   |
| NFD                | 8223. RPP       | 8000   | 71.4   | 73.4   | 75.5   | 78.5   | 81.1   | 84.9   | 87.7   | 90.5   | 92.0   | 85.7   | 79.9    |         |         |         |         | 120.5   |
|                    | ( 824. RAD/SEC) | 10000  | 71.7   | 73.3   | 76.3   | 80.1   | 82.1   | 86.2   | 89.2   | 91.0   | 91.4   | 85.5   | 80.3    |         |         |         |         | 121.1   |
| NO. OF BLADES      | 15              | 12500  | 71.1   | 73.8   | 76.3   | 80.9   | 84.1   | 87.1   | 89.8   | 92.4   | 92.6   | 85.9   | 81.3    |         |         |         |         | 122.5   |
| FAN TIP SPEED      | 16000           | 16000  | 71.2   | 73.5   | 77.1   | 81.1   | 84.0   | 88.0   | 89.2   | 92.4   | 91.4   | 86.2   | 81.8    |         |         |         |         | 122.3   |
|                    | 682. FT/SEC     | 20000  | 71.7   | 73.4   | 77.6   | 81.3   | 84.9   | 88.0   | 91.2   | 93.8   | 93.6   | 87.5   | 81.5    |         |         |         |         | 124.3   |
|                    |                 | 25000  | 71.6   | 73.3   | 76.8   | 80.4   | 83.7   | 87.3   | 90.3   | 92.8   | 93.4   | 87.0   | 80.8    |         |         |         |         | 124.3   |
|                    |                 | 31500  | 69.7   | 71.9   | 76.1   | 80.7   | 83.5   | 86.6   | 89.3   | 91.3   | 91.5   | 85.1   | 78.2    |         |         |         |         | 123.8   |
|                    |                 | 40000  | 67.8   | 69.4   | 73.4   | 77.8   | 80.5   | 83.5   | 86.0   | 87.9   | 88.1   | 82.5   | 75.0    |         |         |         |         | 121.9   |
|                    |                 | 50000  | 67.5   | 68.8   | 70.8   | 73.6   | 76.7   | 79.3   | 82.0   | 82.3   | 82.5   | 79.3   | 68.6    |         |         |         |         | 119.0   |
|                    |                 | 63000  | 65.4   | 66.0   | 68.3   | 69.4   | 70.7   | 73.3   | 75.3   | 74.5   | 75.7   | 72.2   | 65.0    |         |         |         |         | 115.1   |
|                    |                 | 80000  | 72.1   | 69.2   | 70.7   | 67.9   | 68.2   | 69.0   | 69.5   | 69.1   | 69.1   | 67.7   | 65.8    |         |         |         |         | 116.2   |
| OVERALL MEASURED   |                 |        | 88.6   | 89.2   | 90.9   | 93.0   | 95.0   | 97.6   | 99.9   | 102.1  | 102.5  | 99.2   | 98.2    |         |         |         |         | 133.6   |
| OVERALL CALCULATED |                 |        | 98.5   | 99.2   | 100.6  | 102.7  | 104.5  | 106.6  | 108.3  | 109.8  | 111.2  | 108.8  | 106.7   |         |         |         |         |         |

| PRE 1:                    | 57.0   | 62.0   | 71.0   | 71.0   | 71.0   | 71.0   | 101.0  | 111.0  | 122.0  | 133.0  | 143.0  | 154.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|-----|-----|-----|
|                           | (1.97) | (1.08) | (1.24) | (1.41) | (1.55) | (1.70) | (1.94) | (2.13) | (2.35) | (2.52) | (2.73) | (3.0) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SIDE LINE 200. FT.        | 50     |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |     |
| VEHICLE                   | 100    | 44.6   | 48.7   | 50.3   | 51.5   | 51.5   | 52.7   | 52.2   | 52.3   | 54.3   | 57.0   | 57.5  |     |     |     |     |     |     |
| CONFIG                    | 125    | 51.0   | 54.3   | 54.5   | 54.1   | 54.7   | 55.3   | 56.3   | 57.3   | 56.2   | 56.9   | 57.4  |     |     |     |     |     |     |
| LOC SCHEMECTARY           | 160    | 51.2   | 53.2   | 53.7   | 54.6   | 54.1   | 54.8   | 54.2   | 56.9   | 57.6   | 58.5   | 59.6  |     |     |     |     |     |     |
| DATE 1/22/75              | 200    | 49.8   | 50.4   | 51.4   | 53.7   | 53.3   | 54.9   | 57.4   | 58.6   | 58.5   | 59.6   | 57.7  |     |     |     |     |     |     |
| RUN 54/9                  | 250    | 55.0   | 56.3   | 58.7   | 57.9   | 60.5   | 61.3   | 61.4   | 62.2   | 61.3   | 60.7   | 57.7  |     |     |     |     |     |     |
| TAPE                      | 315    | 54.4   | 55.7   | 56.6   | 57.8   | 57.9   | 54.5   | 58.7   | 54.9   | 57.7   | 54.3   | 55.8  |     |     |     |     |     |     |
| BAR 30.1 HG               | 400    | 52.5   | 53.6   | 54.4   | 55.7   | 56.4   | 56.9   | 57.6   | 57.8   | 57.4   | 57.4   | 54.5  |     |     |     |     |     |     |
| (01504. 11/M2)            | 500    | 49.3   | 51.3   | 53.2   | 51.9   | 55.0   | 56.6   | 57.5   | 57.7   | 57.2   | 54.8   | 53.3  |     |     |     |     |     |     |
| TAMP 44. DEG F            | 630    | 51.1   | 52.2   | 54.4   | 54.3   | 57.7   | 59.3   | 60.4   | 60.0   | 59.1   | 57.6   | 52.8  |     |     |     |     |     |     |
| TACT 120. DEG F           | 800    | 52.2   | 53.3   | 55.2   | 54.5   | 57.5   | 59.2   | 59.5   | 59.7   | 58.4   | 56.9   | 52.0  |     |     |     |     |     |     |
| (1277. DEG F)             | 1000   | 49.6   | 51.1   | 53.3   | 54.1   | 56.7   | 58.6   | 58.0   | 58.6   | 58.3   | 54.2   | 50.4  |     |     |     |     |     |     |
| NACT 4.01 CM/M2           | 1200   | 49.2   | 50.2   | 52.5   | 54.8   | 55.4   | 57.4   | 58.3   | 58.1   | 57.6   | 55.2   | 49.5  |     |     |     |     |     |     |
| (60481 KG/M2)             | 1400   | 47.9   | 49.3   | 51.3   | 53.5   | 54.4   | 56.0   | 56.3   | 55.6   | 54.6   | 52.7   | 47.8  |     |     |     |     |     |     |
| NFA 7416. RPM             | 2000   | 48.2   | 50.1   | 52.3   | 54.2   | 55.5   | 56.9   | 56.4   | 57.4   | 56.0   | 52.9   | 46.6  |     |     |     |     |     |     |
| (1810. QAT/SEC)           | 2500   | 47.5   | 49.2   | 51.7   | 54.1   | 55.1   | 56.4   | 55.7   | 54.9   | 54.4   | 50.5   | 44.7  |     |     |     |     |     |     |
| N/K 7432. RPM             | 3150   | 44.0   | 46.7   | 49.1   | 51.3   | 53.1   | 55.4   | 54.3   | 53.3   | 53.2   | 48.8   | 42.4  |     |     |     |     |     |     |
| (830. 24/SEC)             | 4000   | 44.8   | 47.7   | 49.6   | 53.4   | 56.2   | 57.2   | 58.6   | 58.5   | 59.8   | 52.3   | 43.3  |     |     |     |     |     |     |
| NFD 8023. RPM             | 5000   | 44.0   | 45.6   | 48.4   | 51.6   | 53.9   | 55.2   | 56.5   | 56.7   | 57.7   | 51.1   | 41.3  |     |     |     |     |     |     |
| (924. RAD/SEC)            | 6300   | 44.7   | 45.6   | 50.3   | 52.8   | 54.6   | 59.2   | 60.5   | 60.9   | 61.8   | 51.8   | 40.6  |     |     |     |     |     |     |
| NC. OF BLADES 15          | 8000   | 42.7   | 45.8   | 48.9   | 52.5   | 55.2   | 58.8   | 60.9   | 62.3   | 61.6   | 51.5   | 38.8  |     |     |     |     |     |     |
| FAN TIP SPEED 682. FT/SEC | 10000  | 40.3   | 43.9   | 48.1   | 52.5   | 54.8   | 58.6   | 60.6   | 61.0   | 58.0   | 48.6   | 35.1  |     |     |     |     |     |     |
|                           | 12000  | 39.2   | 41.9   | 46.4   | 51.1   | 54.5   | 57.3   | 58.8   | 60.3   | 57.0   | 46.1   | 30.4  |     |     |     |     |     |     |
|                           | 16070  | 32.7   | 37.5   | 42.7   | 47.7   | 50.9   | 53.3   | 54.5   | 55.5   | 56.7   | 38.9   | 28.6  |     |     |     |     |     |     |
|                           | 20000  | 27.1   | 31.9   | 38.2   | 43.9   | 47.0   | 49.6   | 51.3   | 51.2   | 46.2   | 31.8   | 8.7   |     |     |     |     |     |     |
|                           | 25000  | 17.3   | 23.8   | 30.2   | 35.7   | 39.1   | 42.1   | 43.2   | 42.2   | 36.6   | 19.2   |       |     |     |     |     |     |     |
|                           | 31500  | 3.6    | 11.3   | 18.9   | 25.5   | 29.8   | 31.4   | 31.5   | 28.8   | 28.8   |        |       |     |     |     |     |     |     |
|                           | 40000  |        |        | 1.0    | 7.7    | 11.3   | 13.1   | 12.5   | 7.7    |        |        |       |     |     |     |     |     |     |
|                           | 50000  |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |     |
|                           | 63000  |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |     |
|                           | 80000  |        |        |        |        |        |        |        |        |        |        |       |     |     |     |     |     |     |
| OVERALL CALCULATED        | 63.2   | 64.7   | 66.5   | 64.2   | 69.4   | 71.2   | 72.1   | 72.4   | 71.7   | 69.3   | 66.4   |       |     |     |     |     |     |     |
| PH 20                     | 72.5   | 74.3   | 76.7   | 79.0   | 80.9   | 82.5   | 83.5   | 83.7   | 83.7   | 78.7   | 72.1   |       |     |     |     |     |     |     |



|                     | 50     | 60     | 70     | 70     | 70     | 70     | 70     | 70     | 70     | 70     | 70     | 70     | 70     | 70     | 70     | 70     | 70     | 70     | 70     |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                     | (3.52) | (1.10) | (1.24) | (1.41) | (1.57) | (1.70) | (1.84) | (1.94) | (2.03) | (2.13) | (2.22) | (2.32) | (2.43) | (2.53) | (2.63) | (2.73) | (2.83) | (2.93) | (3.03) |
| SIDE LINE 200. FT.  | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50     |
| VEHICLE 8-49        | 125    | 47.7   | 45.4   | 49.8   | 45.2   | 44.6   | 46.8   | 46.8   | 45.5   | 44.8   | 47.4   | 45.6   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   |
| CONFIG 75-7         | 160    | 45.8   | 43.5   | 43.9   | 45.1   | 45.3   | 45.8   | 44.2   | 47.8   | 47.1   | 44.9   | 45.4   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   |
| LRC SCHECTARY       | 200    | 45.3   | 41.4   | 42.9   | 44.7   | 45.5   | 47.4   | 47.3   | 46.9   | 44.4   | 44.5   | 46.5   | 46.5   | 46.5   | 46.5   | 46.5   | 46.5   | 46.5   | 46.5   |
| DATE 1/22/75        | 270    | 43.6   | 45.8   | 47.7   | 47.2   | 43.9   | 49.6   | 49.7   | 49.6   | 46.1   | 47.4   | 45.8   | 43.8   | 43.8   | 43.8   | 43.8   | 43.8   | 43.8   | 43.8   |
| RUN 6477            | 315    | 44.3   | 47.3   | 47.4   | 47.8   | 48.1   | 49.3   | 48.4   | 44.7   | 47.7   | 46.8   | 43.8   | 43.8   | 43.8   | 43.8   | 43.8   | 43.8   | 43.8   | 43.8   |
| TARE                | 430    | 42.5   | 44.4   | 45.1   | 46.3   | 46.7   | 47.7   | 48.9   | 47.9   | 47.1   | 45.5   | 42.8   | 42.8   | 42.8   | 42.8   | 42.8   | 42.8   | 42.8   | 42.8   |
| BAR 30.1 MC         | 500    | 43.6   | 42.0   | 44.3   | 47.7   | 46.4   | 47.9   | 48.7   | 47.5   | 46.2   | 46.2   | 42.1   | 42.1   | 42.1   | 42.1   | 42.1   | 42.1   | 42.1   | 42.1   |
| 101504. 4/M2        | 670    | 43.3   | 44.2   | 46.4   | 44.4   | 49.8   | 51.3   | 52.3   | 51.9   | 51.1   | 44.5   | 43.1   | 43.1   | 43.1   | 43.1   | 43.1   | 43.1   | 43.1   | 43.1   |
| TANK 44. DEC F      | 800    | 43.1   | 45.3   | 45.8   | 44.5   | 49.2   | 41.7   | 51.7   | 52.0   | 51.2   | 48.6   | 41.8   | 41.8   | 41.8   | 41.8   | 41.8   | 41.8   | 41.8   | 41.8   |
| 1270. DEC K1        | 1000   | 37.7   | 42.4   | 46.6   | 47.1   | 47.6   | 50.5   | 51.4   | 52.1   | 51.2   | 49.6   | 39.9   | 39.9   | 39.9   | 39.9   | 39.9   | 39.9   | 39.9   | 39.9   |
| TACT 30. DEC F      | 1250   | 47.4   | 45.8   | 47.7   | 51.1   | 51.8   | 52.7   | 54.2   | 54.2   | 53.3   | 51.9   | 43.1   | 43.1   | 43.1   | 43.1   | 43.1   | 43.1   | 43.1   | 43.1   |
| 1277. DEC F1        | 1400   | 39.1   | 41.4   | 43.5   | 45.8   | 46.9   | 44.8   | 59.8   | 58.2   | 48.3   | 47.1   | 37.6   | 37.6   | 37.6   | 37.6   | 37.6   | 37.6   | 37.6   | 37.6   |
| MACT 4.81 DEC F1    | 2000   | 34.7   | 39.2   | 40.4   | 43.8   | 44.2   | 44.1   | 45.8   | 45.3   | 44.6   | 42.8   | 34.9   | 34.9   | 34.9   | 34.9   | 34.9   | 34.9   | 34.9   | 34.9   |
| 1.00461 MC/M2       | 2500   | 34.7   | 39.3   | 41.4   | 43.8   | 45.1   | 47.2   | 46.3   | 45.3   | 45.1   | 42.7   | 34.8   | 34.8   | 34.8   | 34.8   | 34.8   | 34.8   | 34.8   | 34.8   |
| MFA 5470. RPM       | 3150   | 34.3   | 37.5   | 39.6   | 41.1   | 43.8   | 45.7   | 46.3   | 44.8   | 45.8   | 42.2   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   | 32.8   |
| 1 574. RPM/SEC      | 4000   | 34.4   | 38.5   | 39.8   | 42.5   | 45.1   | 47.7   | 48.5   | 49.6   | 49.8   | 46.7   | 34.6   | 34.6   | 34.6   | 34.6   | 34.6   | 34.6   | 34.6   | 34.6   |
| MFT 5560. RPM       | 5000   | 34.9   | 34.6   | 39.8   | 41.4   | 43.4   | 47.7   | 58.2   | 52.3   | 49.4   | 49.8   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   |
| 1 582. RPM/SEC      | 6300   | 35.1   | 34.2   | 40.8   | 42.9   | 45.5   | 48.9   | 50.7   | 53.5   | 52.5   | 48.7   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   |
| MFB 6823. RPM       | 8000   | 35.8   | 37.4   | 39.4   | 43.8   | 45.4   | 49.5   | 51.1   | 52.2   | 51.8   | 44.7   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   |
| 1 824. RPM/SEC      | 10000  | 35.2   | 43.5   | 42.4   | 47.8   | 51.8   | 53.6   | 55.7   | 55.6   | 54.3   | 46.5   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   |
| NO. OF BLADES 15    | 12500  | 34.2   | 39.7   | 42.4   | 48.7   | 52.8   | 56.8   | 54.2   | 55.1   | 52.7   | 43.3   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   |
| FAN TIP SPEED 16000 | 16000  | 29.5   | 27.3   | 32.5   | 34.7   | 43.1   | 45.8   | 46.8   | 47.1   | 44.7   | 33.4   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   |
| 470. FT/SEC         | 20000  | 17.5   | 22.7   | 26.2   | 32.6   | 36.4   | 39.8   | 41.8   | 41.8   | 34.2   | 24.4   | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    |
|                     | 25000  | 7.4    | 13.3   | 17.8   | 24.3   | 28.8   | 33.3   | 36.4   | 29.8   | 24.8   | 18.1   |        |        |        |        |        |        |        |        |
|                     | 31500  |        | 3.6    | 5.7    | 14.1   | 17.1   | 23.1   | 29.4   | 16.9   | 9.7    |        |        |        |        |        |        |        |        |        |
|                     | 40000  |        |        |        |        |        | 1.3    | 8.2    |        |        |        |        |        |        |        |        |        |        |        |
|                     | 50000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                     | 63000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                     | 80000  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| OVERALL CALCULATED  |        | 55.3   | 57.9   | 60.8   | 63.3   | 63.8   | 64.6   | 64.5   | 64.8   | 63.7   | 60.9   | 55.4   |        |        |        |        |        |        |        |
| PMCD                |        | 62.5   | 65.4   | 67.3   | 69.7   | 71.8   | 73.7   | 74.7   | 76.8   | 74.8   | 71.6   | 62.1   |        |        |        |        |        |        |        |

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MODEL SOUND PRESSURE LEVELS (50. DFG, F, 70 PERCENT REL. HUM, EAV)

ANGLES FROM INFLY IN DEGREES (AND RADIANS)

|                           | 62°    | 71°    | 81°    | 91°    | 101°   | 111°   | 121°   | 131°   | 141°   | 150°   | 0°    | 0°    | 0°    | 0°    | 0°    | 0°    |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| FREQ.                     | (1.06) | (1.24) | (1.41) | (1.59) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) |
| SIGNAL 200. FT.           | 50     |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
| ( 60.96 M)                | 63     |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
| VEHICLE R-55              | 100    | 54.5   | 59.1   | 61.0   | 60.7   | 59.7   | 56.1   | 49.4   | 47.0   | 44.7   | 46.8  |       |       |       |       |       |
| CONFIG 7508               | 125    | 45.9   | 50.3   | 46.4   | 50.5   | 47.1   | 45.7   | 44.3   | 47.9   | 45.6   | 44.9  |       |       |       |       |       |
| LTC SCHEMECTADY           | 150    | 42.5   | 43.4   | 44.4   | 45.1   | 45.0   | 45.9   | 46.8   | 46.8   | 46.2   | 44.9  |       |       |       |       |       |
| DATE 1/27/75              | 200    | 41.4   | 43.1   | 44.3   | 45.7   | 47.9   | 47.6   | 48.9   | 48.4   | 48.0   | 46.2  |       |       |       |       |       |
| RUN 63/1                  | 250    | 45.3   | 47.5   | 47.3   | 47.3   | 49.1   | 50.0   | 49.6   | 48.6   | 46.6   | 44.3  |       |       |       |       |       |
| TAPE                      | 315    | 46.0   | 47.4   | 48.1   | 48.3   | 49.0   | 48.6   | 48.5   | 47.5   | 46.5   | 43.3  |       |       |       |       |       |
| BAR 30.2 MG               | 400    | 43.9   | 45.3   | 46.0   | 46.2   | 47.7   | 47.8   | 47.8   | 46.8   | 45.3   | 42.1  |       |       |       |       |       |
| (31957. 3/1/2)            | 500    | 42.1   | 43.5   | 45.0   | 47.2   | 47.6   | 48.7   | 48.8   | 48.7   | 45.9   | 41.8  |       |       |       |       |       |
| TAMP 44. DEG F            | 600    | 43.7   | 46.1   | 48.1   | 49.8   | 51.3   | 52.1   | 51.9   | 50.3   | 48.5   | 42.1  |       |       |       |       |       |
| (240. 350 K)              | 800    | 44.6   | 46.2   | 48.3   | 49.2   | 50.9   | 51.7   | 51.5   | 50.7   | 48.3   | 40.8  |       |       |       |       |       |
| TACT 39. DEG F            | 1000   | 42.2   | 44.1   | 46.1   | 48.3   | 50.0   | 51.3   | 51.5   | 51.2   | 48.3   | 36.2  |       |       |       |       |       |
| (277. DEG K)              | 1200   | 43.5   | 46.3   | 49.3   | 49.5   | 51.7   | 52.7   | 52.9   | 54.1   | 52.6   | 41.1  |       |       |       |       |       |
| HACT 4.00 CM/MG           | 1600   | 39.9   | 42.5   | 44.9   | 45.6   | 47.8   | 48.7   | 49.0   | 47.6   | 45.8   | 36.9  |       |       |       |       |       |
| (100480 MG/M3)            | 2000   | 38.4   | 40.6   | 42.8   | 44.3   | 45.1   | 45.5   | 44.0   | 43.6   | 41.0   | 33.9  |       |       |       |       |       |
| NFA 5407. RPM             | 2500   | 35.0   | 38.3   | 43.1   | 45.1   | 48.9   | 48.3   | 44.5   | 44.4   | 42.0   | 32.7  |       |       |       |       |       |
| ( 574. PAC/SEC)           | 3150   | 37.0   | 38.3   | 40.1   | 42.3   | 45.4   | 45.3   | 43.0   | 43.7   | 39.7   | 30.5  |       |       |       |       |       |
| NPK 6568. RPM             | 4000   | 36.0   | 39.6   | 42.7   | 44.4   | 47.7   | 49.2   | 50.4   | 49.3   | 42.7   | 32.3  |       |       |       |       |       |
| ( 583. RAD/SEC)           | 5000   | 36.4   | 38.8   | 40.9   | 43.8   | 47.4   | 50.2   | 52.3   | 49.2   | 42.8   | 31.4  |       |       |       |       |       |
| NFS 8823. RPP             | 6300   | 38.2   | 40.0   | 43.1   | 46.5   | 49.2   | 51.4   | 52.0   | 51.7   | 46.0   | 33.9  |       |       |       |       |       |
| ( 924. RAD/SEC)           | 8000   | 38.1   | 40.2   | 44.0   | 47.6   | 49.8   | 52.1   | 53.2   | 52.3   | 46.5   | 32.4  |       |       |       |       |       |
| NO. OF BLADES 15          | 10000  | 42.2   | 44.4   | 49.3   | 53.0   | 56.3   | 57.5   | 58.4   | 55.8   | 49.8   | 38.7  |       |       |       |       |       |
| FAI TIP SPEED 479. FT/SEC | 12500  | 35.4   | 39.2   | 44.9   | 49.2   | 51.5   | 53.0   | 52.1   | 51.0   | 40.5   | 24.7  |       |       |       |       |       |
|                           | 16000  | 28.8   | 32.0   | 39.0   | 43.1   | 45.5   | 46.7   | 46.3   | 44.7   | 32.1   | 13.2  |       |       |       |       |       |
|                           | 20000  | 21.2   | 25.9   | 32.1   | 35.7   | 39.1   | 39.3   | 39.3   | 36.5   | 23.7   |       |       |       |       |       |       |
|                           | 25000  | 12.6   | 16.7   | 23.0   | 26.8   | 29.8   | 29.8   | 29.0   | 24.6   | 8.6    |       |       |       |       |       |       |
|                           | 31500  |        | 5.4    | 12.6   | 16.4   | 18.9   | 18.4   | 15.4   | 9.5    |        |       |       |       |       |       |       |
|                           | 40000  |        |        |        |        | 1.0    |        |        |        |        |       |       |       |       |       |       |
|                           | 50000  |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
|                           | 63000  |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
|                           | 80000  |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |
| OVERALL CALCULATED        | 58.0   | 61.4   | 63.2   | 64.0   | 64.7   | 64.7   | 64.4   | 63.5   | 60.4   | 58.9   |       |       |       |       |       |       |
| PNCB                      | 65.0   | 67.2   | 69.6   | 71.5   | 73.9   | 74.6   | 75.5   | 74.3   | 70.5   | 68.9   |       |       |       |       |       |       |

WIND SPEED MEASUREMENT LEVELS (50, 60, 70 PERCENT REL. HUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

| PARAMETER           | 50°    | 71°    | 81°    | 91°    | 101°   | 111°   | 121°   | 133°   | 145°   | 156°   | 9°     | 9°     | 9°     | 9°     | 9°     | 9°     | 9°     | 9°     | 9°     | 9°     |       |       |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
|                     | (1.02) | (1.24) | (1.41) | (1.55) | (1.75) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.16) | (0.16) | (0.16) | (0.16) | (0.16) | (0.16) | (0.16) | (0.16) | (0.16) | (0.16) |       |       |
| RADIAL 17. FT.      | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   |       |       |
| VEHICLE (50 FT)     | 17.0   | 75.9   | 71.2   | 71.2   | 69.4   | 69.2   | 71.0   | 72.2   | 73.2   | 76.5   | 80.9   |        |        |        |        |        |        |        |        |        | 107.9 |       |
| CONFID 750A         | 16.0   | 75.7   | 69.2   | 75.2   | 70.1   | 71.2   | 71.3   | 74.2   | 75.0   | 76.5   | 79.7   |        |        |        |        |        |        |        |        |        |       | 107.6 |
| LCC SCHEDULE        | 200    | 67.4   | 64.9   | 67.7   | 71.4   | 73.4   | 73.0   | 76.2   | 77.2   | 79.5   | 81.1   |        |        |        |        |        |        |        |        |        |       | 108.9 |
| DATE 1/22/75        | 250    | 71.4   | 72.2   | 71.1   | 73.4   | 73.2   | 75.5   | 76.2   | 77.4   | 77.7   | 79.6   |        |        |        |        |        |        |        |        |        |       | 109.1 |
| RUL 63/2            | 315    | 72.9   | 73.2   | 73.4   | 73.6   | 74.7   | 75.3   | 75.2   | 76.2   | 77.8   | 78.9   |        |        |        |        |        |        |        |        |        |       | 109.0 |
| TYPE                | 450    | 74.1   | 70.7   | 71.4   | 71.5   | 72.7   | 73.2   | 74.7   | 76.2   | 76.8   | 77.6   |        |        |        |        |        |        |        |        |        |       | 107.7 |
| BAR 33.2 HG         | 500    | 69.2   | 69.1   | 71.2   | 71.1   | 72.2   | 72.2   | 74.4   | 75.2   | 76.4   | 77.2   |        |        |        |        |        |        |        |        |        |       | 107.7 |
| (01957. H/M2)       | 610    | 69.2   | 72.2   | 73.7   | 74.7   | 75.2   | 77.2   | 78.5   | 76.2   | 78.3   | 77.2   |        |        |        |        |        |        |        |        |        |       | 110.2 |
| TAMP 45. DEG F      | 600    | 71.2   | 71.9   | 73.4   | 74.1   | 76.0   | 77.0   | 78.5   | 79.2   | 79.0   | 78.4   |        |        |        |        |        |        |        |        |        |       | 110.0 |
| (250. DEG F)        | 1000   | 67.2   | 70.4   | 71.5   | 72.1   | 75.0   | 75.5   | 78.2   | 79.2   | 78.8   | 75.4   |        |        |        |        |        |        |        |        |        |       | 109.5 |
| T-FT 30. DEG F      | 1250   | 67.7   | 69.2   | 70.8   | 71.7   | 74.1   | 74.2   | 77.7   | 79.0   | 78.1   | 74.7   |        |        |        |        |        |        |        |        |        |       | 108.9 |
| (270. DEG F)        | 1500   | 68.0   | 69.2   | 71.3   | 73.0   | 75.1   | 75.2   | 78.5   | 78.2   | 78.3   | 73.9   |        |        |        |        |        |        |        |        |        |       | 108.7 |
| HACT 3.99 CH/MS     | 2000   | 66.3   | 67.7   | 68.9   | 70.7   | 71.5   | 72.7   | 73.2   | 73.7   | 73.4   | 71.4   |        |        |        |        |        |        |        |        |        |       | 105.3 |
| (00391 H/M3)        | 2500   | 67.7   | 67.7   | 73.4   | 71.5   | 73.0   | 73.5   | 72.7   | 75.2   | 73.4   | 70.9   |        |        |        |        |        |        |        |        |        |       | 100.0 |
| RFA 6207. RPM       | 3100   | 65.3   | 66.4   | 65.2   | 70.1   | 73.0   | 73.5   | 74.7   | 76.2   | 73.1   | 70.4   |        |        |        |        |        |        |        |        |        |       | 106.1 |
| (656. RPM/SEC)      | 4000   | 64.8   | 66.4   | 69.2   | 71.1   | 74.1   | 75.4   | 77.4   | 77.9   | 73.8   | 70.4   |        |        |        |        |        |        |        |        |        |       | 107.0 |
| MFK 6353. RPM       | 5000   | 64.8   | 66.3   | 70.4   | 72.3   | 74.5   | 78.6   | 62.1   | 66.7   | 75.3   | 71.0   |        |        |        |        |        |        |        |        |        |       | 110.7 |
| (685. RPM/SEC)      | 6300   | 67.4   | 68.3   | 73.4   | 73.4   | 77.2   | 81.1   | 62.2   | 68.4   | 80.8   | 74.2   |        |        |        |        |        |        |        |        |        |       | 113.0 |
| MFC 8823. RPM       | 8000   | 67.4   | 69.4   | 72.6   | 75.6   | 78.4   | 82.0   | 84.2   | 86.1   | 82.2   | 75.5   |        |        |        |        |        |        |        |        |        |       | 114.7 |
| (824. RPM/SEC)      | 10000  | 69.0   | 70.3   | 74.4   | 77.2   | 80.3   | 83.5   | 86.0   | 87.7   | 82.0   | 78.5   |        |        |        |        |        |        |        |        |        |       | 116.3 |
| NO. OF BLADES 12    | 12500  | 72.2   | 75.2   | 81.5   | 84.2   | 88.0   | 87.4   | 89.3   | 89.2   | 84.0   | 78.5   |        |        |        |        |        |        |        |        |        |       | 119.0 |
| PAN TIP SPEED 15000 | 25000  | 73.5   | 75.3   | 81.5   | 84.7   | 88.7   | 88.0   | 87.7   | 87.6   | 81.6   | 76.5   |        |        |        |        |        |        |        |        |        |       | 119.3 |
| 547. FT/SEC         | 25000  | 68.5   | 69.7   | 75.6   | 78.5   | 81.6   | 84.9   | 87.2   | 89.1   | 82.3   | 78.7   |        |        |        |        |        |        |        |        |        |       | 110.5 |
|                     | 25000  | 74.8   | 67.8   | 73.1   | 76.2   | 79.3   | 81.9   | 85.2   | 86.1   | 80.0   | 73.9   |        |        |        |        |        |        |        |        |        |       | 116.0 |
|                     | 31500  | 73.4   | 66.5   | 72.6   | 75.2   | 77.2   | 80.6   | 82.0   | 82.7   | 78.3   | 71.2   |        |        |        |        |        |        |        |        |        |       | 119.6 |
|                     | 40000  | 67.2   | 63.8   | 69.0   | 72.3   | 75.2   | 77.7   | 79.2   | 80.6   | 74.7   | 65.0   |        |        |        |        |        |        |        |        |        |       | 113.6 |
|                     | 50000  | 72.1   | 62.5   | 66.3   | 68.0   | 71.5   | 73.6   | 74.0   | 75.2   | 70.7   | 61.7   |        |        |        |        |        |        |        |        |        |       | 111.0 |
|                     | 63000  | 67.2   | 60.7   | 64.3   | 65.9   | 68.4   | 68.0   | 66.2   | 67.8   | 63.5   | 58.4   |        |        |        |        |        |        |        |        |        |       | 108.1 |
|                     | 80000  | 67.2   | 61.3   | 66.7   | 66.7   | 67.8   | 66.5   | 59.8   | 61.4   | 58.6   | 57.0   |        |        |        |        |        |        |        |        |        |       | 110.0 |
| OVERALL MEASURED    |        | 83.8   | 85.2   | 88.3   | 90.6   | 92.5   | 94.5   | 96.3   | 97.3   | 93.3   | 91.1   |        |        |        |        |        |        |        |        |        |       | 127.0 |
| OVERALL CALCULATED  |        | 92.8   | 93.0   | 95.8   | 97.5   | 100.0  | 102.7  | 104.3  | 105.5  | 103.1  | 98.5   |        |        |        |        |        |        |        |        |        |       |       |

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INLET STATIC PRESSURE LEVELS 150. JFC. F. 70 PERCENT DEL. NUM. DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

PNIC. DATE - MONTH 3 DAY 28 HR. 11.9

|                    | 62°   | 71°  | 81°  | 91°  | 101° | 111° | 121° | 131° | 141° | 156° | 0°   | 10°  | 20°  | 30°  | 40°  | 50°  |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| SIDE LINE 200. FT. | 50    | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |
| (60.96 M)          | 50    | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |
| VELOCITY P-25      | 170   | 53.2 | 52.1 | 49.5 | 48.1 | 46.2 | 47.4 | 49.2 | 49.8 | 50.0 | 50.8 | 50.8 | 50.8 | 50.8 | 50.8 | 50.8 |
| CONFIG 75-A        | 125   | 47.4 | 50.7 | 48.4 | 51.2 | 48.3 | 49.3 | 51.1 | 51.4 | 51.4 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 |
| LTC SCHEMECTAV     | 150   | 47.8 | 46.9 | 47.3 | 48.4 | 48.3 | 49.4 | 50.3 | 50.6 | 50.6 | 50.4 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 |
| DATE 1/27/75       | 250   | 44.4 | 46.8 | 47.7 | 49.6 | 51.4 | 51.3 | 52.9 | 52.4 | 52.5 | 50.5 | 50.5 | 50.5 | 50.5 | 50.5 | 50.5 |
| RUN 63/2           | 270   | 47.2 | 51.1 | 51.3 | 51.5 | 51.4 | 53.0 | 52.8 | 52.6 | 50.7 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 |
| TAPE               | 315   | 47.8 | 51.1 | 51.3 | 51.7 | 52.5 | 52.6 | 51.7 | 51.2 | 50.5 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 |
| BAR 30-2 MC        | 450   | 47.2 | 48.3 | 47.2 | 49.4 | 50.4 | 51.0 | 51.1 | 51.1 | 49.3 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 |
| (31657. 11/12)     | 570   | 44.7 | 46.8 | 47.9 | 49.8 | 50.5 | 51.9 | 51.5 | 51.2 | 49.4 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |
| TAMP 45. DEG F     | 600   | 47.6 | 49.0 | 51.0 | 51.6 | 53.4 | 54.0 | 54.5 | 53.7 | 50.1 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 |
| 12. DEG K          | 1000  | 45.2 | 47.4 | 48.8 | 50.7 | 52.3 | 53.3 | 54.1 | 53.5 | 50.4 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 |
| Y-FY 38. DEG F     | 1250  | 47.8 | 48.3 | 48.0 | 49.1 | 51.2 | 52.9 | 53.4 | 53.1 | 49.6 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 |
| 1276. DEG K        | 1500  | 43.9 | 45.8 | 48.4 | 50.2 | 52.0 | 51.7 | 52.0 | 52.1 | 49.6 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 |
| HACT 3.08 CM/MS    | 2000  | 42.0 | 44.1 | 45.4 | 47.3 | 48.4 | 49.1 | 48.4 | 47.4 | 44.5 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 |
| (30337 KG/MT)      | 2500  | 42.8 | 47.9 | 47.1 | 48.4 | 49.7 | 49.5 | 47.8 | 48.6 | 44.2 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 |
| NFA 6247. RPM      | 3150  | 47.2 | 47.1 | 44.6 | 47.7 | 49.4 | 49.5 | 49.5 | 47.2 | 43.3 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 |
| (656. RAT/SEC)     | 4000  | 39.5 | 41.9 | 45.2 | 47.2 | 50.0 | 50.6 | 51.7 | 50.4 | 43.2 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 |
| NFK 6353. RPM      | 5000  | 37.2 | 41.6 | 46.2 | 49.2 | 51.2 | 53.7 | 56.1 | 52.7 | 44.3 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 |
| (665. RAT/SEC)     | 6300  | 41.3 | 43.3 | 45.7 | 48.7 | 52.0 | 55.5 | 59.3 | 55.5 | 48.5 | 35.7 | 35.7 | 35.7 | 35.7 | 35.7 | 35.7 |
| NFD 8423. RPM      | 8000  | 43.2 | 42.8 | 46.6 | 49.4 | 52.4 | 55.2 | 58.0 | 55.7 | 48.0 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 |
| (924. RAT/SEC)     | 11000 | 34.6 | 42.3 | 46.9 | 49.7 | 52.7 | 55.1 | 58.0 | 55.2 | 45.2 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 |
| NO OF BLADES 19    | 12500 | 49.3 | 45.3 | 51.8 | 54.7 | 56.2 | 56.6 | 56.7 | 54.6 | 43.1 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 |
| FXH TIP SPEED      | 16000 | 34.5 | 40.9 | 48.1 | 51.5 | 52.2 | 52.1 | 50.8 | 47.1 | 34.3 | 16.1 | 16.1 | 16.1 | 16.1 | 16.1 | 16.1 |
| 547. FT/SEC        | 20000 | 25.1 | 30.3 | 37.4 | 40.5 | 43.2 | 45.1 | 44.6 | 41.8 | 26.5 | 3.9  | 3.9  | 3.9  | 3.9  | 3.9  | 3.9  |
|                    | 25000 | 15.5 | 21.2 | 26.0 | 31.5 | 34.1 | 34.6 | 34.5 | 29.3 | 12.1 |      |      |      |      |      |      |
|                    | 31500 | 2.8  | 9.4  | 17.4 | 20.7 | 22.6 | 22.6 | 20.4 | 12.9 |      |      |      |      |      |      |      |
|                    | 40000 |      |      |      | 3.0  | 4.8  | 4.0  |      |      |      |      |      |      |      |      |      |
|                    | 50000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                    | 63000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                    | 80000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| OVERALL CALCULATED |       | 57.4 | 60.9 | 62.3 | 63.9 | 65.3 | 66.5 | 66.9 | 66.0 | 62.3 | 56.8 |      |      |      |      |      |
| PNIC               |       | 67.9 | 69.7 | 72.2 | 73.7 | 75.8 | 77.8 | 78.6 | 77.6 | 72.3 | 64.3 |      |      |      |      |      |



|                    | 50     | 37.5   | 25     | 12.5   | 10     | 11     | 12     | 13     | 14     | 15     | 16     | 0   | 0   | 0   | 0   | 0   | 0   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|
|                    | (1.75) | (1.23) | (1.41) | (1.54) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (2.94) | (0) | (0) | (0) | (0) | (0) | (0) |
| SIDELINE 230. FT.  |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |
| (AC-96 M)          | 100    | 48.9   | 57.8   | 49.7   | 40.3   | 49.7   | 49.2   | 49.3   | 51.3   | 53.4   | 54.9   |     |     |     |     |     |     |
| VEHICLE R-55       | 125    | 55.3   | 47.7   | 54.3   | 57.2   | 52.5   | 42.1   | 54.8   | 53.9   | 54.2   | 52.9   |     |     |     |     |     |     |
| CONFIG 75-A        | 150    | 43.5   | 53.4   | 53.8   | 71.4   | 51.3   | 47.3   | 53.9   | 54.8   | 54.8   | 52.9   |     |     |     |     |     |     |
| LFC SCHEMECTAPY    | 200    | 45.9   | 49.1   | 50.7   | 52.3   | 53.9   | 54.7   | 55.8   | 55.7   | 56.1   | 53.9   |     |     |     |     |     |     |
| DATE 1/22/75       | 270    | 51.2   | 54.0   | 54.4   | 55.2   | 55.6   | 56.6   | 56.2   | 57.4   | 55.2   | 52.9   |     |     |     |     |     |     |
| PUN 63/1           | 315    | 57.0   | 54.1   | 54.3   | 57.2   | 55.5   | 55.5   | 54.4   | 57.0   | 54.3   | 52.0   |     |     |     |     |     |     |
| TAPE               | 420    | 50.4   | 51.6   | 52.7   | 57.1   | 53.9   | 54.6   | 54.5   | 53.9   | 53.4   | 50.5   |     |     |     |     |     |     |
| BAR 30-2 HG        | 500    | 48.3   | 49.7   | 50.7   | 52.5   | 53.6   | 54.5   | 54.4   | 55.0   | 53.3   | 49.3   |     |     |     |     |     |     |
| (31937. N/2)       | 630    | 49.3   | 51.7   | 53.6   | 54.7   | 55.9   | 57.7   | 57.5   | 58.1   | 54.3   | 49.0   |     |     |     |     |     |     |
| TAIN 44. DEG F     | 870    | 57.3   | 52.3   | 53.3   | 54.6   | 56.2   | 47.0   | 58.0   | 57.2   | 53.6   | 47.5   |     |     |     |     |     |     |
| (250. DEG K)       | 1000   | 47.3   | 50.1   | 51.8   | 57.9   | 54.5   | 55.7   | 55.8   | 56.0   | 52.6   | 46.4   |     |     |     |     |     |     |
| TACT 39. DEG F     | 1250   | 46.7   | 49.0   | 50.8   | 52.1   | 53.7   | 55.0   | 55.8   | 55.1   | 52.4   | 45.5   |     |     |     |     |     |     |
| (277. DEG K)       | 1500   | 46.6   | 49.3   | 50.6   | 51.4   | 53.3   | 53.3   | 52.0   | 51.6   | 49.2   | 43.1   |     |     |     |     |     |     |
| HACT 4.40 CM/MT    | 2000   | 45.9   | 47.8   | 50.0   | 51.0   | 52.6   | 53.1   | 52.4   | 51.1   | 46.1   | 42.1   |     |     |     |     |     |     |
| (00400 KG/MT)      | 2500   | 45.7   | 48.2   | 50.6   | 52.4   | 53.2   | 52.7   | 51.4   | 52.1   | 47.5   | 40.7   |     |     |     |     |     |     |
| NFA 7342. RPM      | 3150   | 44.2   | 45.8   | 48.1   | 50.1   | 52.4   | 53.1   | 51.3   | 52.7   | 46.1   | 34.9   |     |     |     |     |     |     |
| (737.5 RPM/SEC)    | 4000   | 43.7   | 45.3   | 48.4   | 50.9   | 53.5   | 44.3   | 54.7   | 51.6   | 46.8   | 33.3   |     |     |     |     |     |     |
| NFR 7145. RPM      | 5000   | 43.1   | 45.5   | 47.9   | 51.7   | 53.7   | 57.0   | 58.7   | 54.5   | 46.3   | 37.1   |     |     |     |     |     |     |
| (740. RPM/SEC)     | 6300   | 43.1   | 47.8   | 49.1   | 51.6   | 54.7   | 56.0   | 57.4   | 58.5   | 50.3   | 37.8   |     |     |     |     |     |     |
| NFD 8823. RPM      | 8000   | 47.3   | 46.2   | 49.7   | 52.7   | 55.0   | 48.4   | 59.1   | 56.8   | 50.0   | 36.6   |     |     |     |     |     |     |
| (224.44275SEC)     | 10000  | 41.2   | 44.0   | 49.3   | 52.0   | 55.5   | 57.3   | 58.3   | 57.4   | 46.6   | 32.6   |     |     |     |     |     |     |
| NO. OF BLADES 15   | 12500  | 41.9   | 46.4   | 51.9   | 55.3   | 58.5   | 55.8   | 59.5   | 56.2   | 45.1   | 30.4   |     |     |     |     |     |     |
| FAN TIP SPEED      | 18000  | 35.2   | 41.0   | 46.7   | 50.6   | 52.8   | 53.5   | 53.8   | 49.5   | 36.5   | 18.6   |     |     |     |     |     |     |
| 615. FT/SEC        | 20000  | 28.7   | 34.9   | 40.5   | 44.3   | 46.6   | 46.3   | 48.2   | 44.2   | 29.0   | 6.0    |     |     |     |     |     |     |
|                    | 25000  | 19.5   | 25.2   | 31.7   | 35.6   | 38.1   | 38.0   | 38.4   | 32.8   | 15.2   |        |     |     |     |     |     |     |
|                    | 31500  | 7.3    | 13.9   | 21.0   | 24.7   | 26.4   | 26.7   | 24.1   | 17.3   |        |        |     |     |     |     |     |     |
|                    | 40000  |        |        | 2.9    | 7.0    | 8.5    | 8.1    | 3.2    |        |        |        |     |     |     |     |     |     |
|                    | 50000  |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |
|                    | 63000  |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |
|                    | 80000  |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |
| OVERALL CALCULATED |        | 52.3   | 64.2   | 65.1   | 66.4   | 68.0   | 69.1   | 69.5   | 68.8   | 65.7   | 62.3   |     |     |     |     |     |     |
| PNDM               |        | 71.1   | 73.4   | 75.4   | 77.1   | 78.9   | 80.5   | 81.2   | 80.5   | 75.0   | 68.0   |     |     |     |     |     |     |



|                    | 0°    | 11.3° | 22.6° | 34.0° | 45.3° | 56.7° | 68.0° | 79.4° | 90.7° | 102.0° | 113.3° | 124.7° | 136.0° | 147.3° | 158.7° | 170.0° | 181.3° | 192.6° | 204.0° | 215.3° | 226.7° |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| SIZE LINE 200 FT.  | 63    |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |       |       |
| VEHICLE R-MS       | 125   | 47.7  | 57.3  | 59.5  | 61.9  | 64.7  | 67.4  | 70.1  | 72.8  | 75.4   | 78.1   | 80.8   | 83.5   | 86.2   | 88.9   | 91.6   | 94.3   | 97.0   | 99.7   | 102.4  | 105.1  | 107.8 |       |
| CONFIC 75-8        | 160   | 49.0  | 57.4  | 54.3  | 54.1  | 54.3  | 54.2  | 54.0  | 53.8  | 53.7   | 53.6   | 53.5   | 53.4   | 53.3   | 53.2   | 53.1   | 53.0   | 52.9   | 52.8   | 52.7   | 52.6   | 52.5  | 52.4  |
| LPC SCHNECTALY     | 274   | 49.0  | 51.6  | 53.5  | 55.3  | 57.2  | 59.1  | 61.0  | 62.9  | 64.8   | 66.7   | 68.6   | 70.5   | 72.4   | 74.3   | 76.2   | 78.1   | 80.0   | 81.9   | 83.8   | 85.7   | 87.6  | 89.5  |
| DATE 1/22/75       | 250   | 54.5  | 53.1  | 50.2  | 47.2  | 44.1  | 41.0  | 37.9  | 34.8  | 31.7   | 28.6   | 25.5   | 22.4   | 19.3   | 16.2   | 13.1   | 10.0   | 6.9    | 3.8    | 0.7    |        |       |       |
| RUN 63/4           | 319   | 55.7  | 57.1  | 57.8  | 58.2  | 58.4  | 58.7  | 59.1  | 59.4  | 59.7   | 59.9   | 60.2   | 60.5   | 60.8   | 61.1   | 61.4   | 61.7   | 62.0   | 62.3   | 62.6   | 62.9   | 63.2  | 63.5  |
| TAPE               | 400   | 57.4  | 58.1  | 58.0  | 57.9  | 57.9  | 57.9  | 57.9  | 57.9  | 57.9   | 57.9   | 57.9   | 57.9   | 57.9   | 57.9   | 57.9   | 57.9   | 57.9   | 57.9   | 57.9   | 57.9   | 57.9  | 57.9  |
| CAN 30-2 HG        | 500   | 58.3  | 58.2  | 58.2  | 58.2  | 58.2  | 58.2  | 58.2  | 58.2  | 58.2   | 58.2   | 58.2   | 58.2   | 58.2   | 58.2   | 58.2   | 58.2   | 58.2   | 58.2   | 58.2   | 58.2   | 58.2  | 58.2  |
| (01957. H/P/2)     | 630   | 58.2  | 58.6  | 58.3  | 57.7  | 57.5  | 57.5  | 57.5  | 57.5  | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5   | 57.5  | 57.5  |
| TAIN 24. DEG F     | 870   | 58.0  | 58.3  | 57.9  | 57.5  | 57.2  | 56.9  | 56.6  | 56.3  | 56.0   | 55.7   | 55.4   | 55.1   | 54.8   | 54.5   | 54.2   | 53.9   | 53.6   | 53.3   | 53.0   | 52.7   | 52.4  | 52.1  |
| (230. DEG K)       | 1000  | 58.9  | 58.8  | 58.8  | 58.7  | 58.7  | 58.7  | 58.7  | 58.7  | 58.7   | 58.7   | 58.7   | 58.7   | 58.7   | 58.7   | 58.7   | 58.7   | 58.7   | 58.7   | 58.7   | 58.7   | 58.7  | 58.7  |
| TACT 35. DEG F     | 1200  | 58.2  | 58.5  | 58.0  | 57.3  | 56.9  | 56.6  | 56.3  | 56.0  | 55.7   | 55.4   | 55.1   | 54.8   | 54.5   | 54.2   | 53.9   | 53.6   | 53.3   | 53.0   | 52.7   | 52.4   | 52.1  | 51.8  |
| (277. DEG K)       | 1400  | 49.3  | 51.5  | 53.4  | 55.0  | 56.4  | 57.8  | 59.1  | 60.5  | 61.9   | 63.3   | 64.7   | 66.1   | 67.5   | 68.9   | 70.3   | 71.7   | 73.1   | 74.5   | 75.9   | 77.3   | 78.7  | 80.1  |
| MACT 4.50 GN/P     | 2000  | 58.1  | 58.8  | 58.2  | 57.5  | 57.1  | 56.7  | 56.3  | 55.9  | 55.5   | 55.1   | 54.7   | 54.3   | 53.9   | 53.5   | 53.1   | 52.7   | 52.3   | 51.9   | 51.5   | 51.1   | 50.7  | 50.3  |
| (30480. KG/P/2)    | 2500  | 48.2  | 51.9  | 53.8  | 55.3  | 56.9  | 58.4  | 59.9  | 61.4  | 62.9   | 64.4   | 65.9   | 67.4   | 68.9   | 70.4   | 71.9   | 73.4   | 74.9   | 76.4   | 77.9   | 79.4   | 80.9  | 82.4  |
| NFA 7420. RFP      | 3100  | 48.7  | 48.8  | 51.3  | 51.4  | 55.4  | 57.6  | 59.6  | 61.6  | 63.6   | 65.6   | 67.6   | 69.6   | 71.6   | 73.6   | 75.6   | 77.6   | 79.6   | 81.6   | 83.6   | 85.6   | 87.6  | 89.6  |
| (820. RA-2/SEC)    | 4000  | 47.2  | 48.3  | 52.9  | 54.7  | 57.0  | 59.3  | 61.6  | 63.9  | 66.2   | 68.5   | 70.8   | 73.1   | 75.4   | 77.7   | 80.0   | 82.3   | 84.6   | 86.9   | 89.2   | 91.5   | 93.8  | 96.1  |
| NFA 7045. RPK      | 5000  | 47.7  | 48.8  | 50.9  | 52.7  | 55.7  | 58.7  | 61.7  | 64.7  | 67.7   | 70.7   | 73.7   | 76.7   | 79.7   | 82.7   | 85.7   | 88.7   | 91.7   | 94.7   | 97.7   | 100.7  | 103.7 | 106.7 |
| (832. RAD/SEC)     | 6300  | 46.4  | 49.9  | 52.6  | 54.4  | 57.9  | 60.3  | 62.7  | 65.1  | 67.5   | 69.9   | 72.3   | 74.7   | 77.1   | 79.5   | 81.9   | 84.3   | 86.7   | 89.1   | 91.5   | 93.9   | 96.3  | 98.7  |
| NFA 8423. RPM      | 8000  | 46.1  | 45.9  | 52.2  | 55.2  | 59.0  | 61.2  | 63.3  | 65.4  | 67.5   | 69.6   | 71.7   | 73.8   | 75.9   | 78.0   | 80.1   | 82.2   | 84.3   | 86.4   | 88.5   | 90.6   | 92.7  | 94.8  |
| (924. RAD/SEC)     | 10000 | 47.4  | 47.4  | 51.4  | 54.4  | 57.4  | 60.3  | 63.3  | 66.3  | 69.3   | 72.3   | 75.3   | 78.3   | 81.3   | 84.3   | 87.3   | 90.3   | 93.3   | 96.3   | 99.3   | 102.3  | 105.3 | 108.3 |
| NO. OF BLAZES 15   | 12500 | 47.9  | 47.4  | 52.1  | 56.0  | 59.8  | 63.8  | 67.8  | 71.8  | 75.8   | 79.8   | 83.8   | 87.8   | 91.8   | 95.8   | 99.8   | 103.8  | 107.8  | 111.8  | 115.8  | 119.8  | 123.8 | 127.8 |
| PM: TIP SPEED      | 16000 | 37.5  | 43.2  | 48.2  | 51.9  | 54.0  | 55.3  | 56.3  | 57.0  | 57.6   | 58.2   | 58.8   | 59.4   | 59.9   | 60.5   | 61.1   | 61.7   | 62.3   | 62.9   | 63.5   | 64.1   | 64.7  | 65.3  |
| 643. FT/SEC        | 20000 | 32.4  | 38.2  | 44.3  | 47.8  | 50.4  | 52.1  | 53.7  | 55.4  | 57.1   | 58.8   | 60.5   | 62.2   | 63.9   | 65.6   | 67.3   | 69.0   | 70.7   | 72.4   | 74.1   | 75.8   | 77.5  | 79.2  |
|                    | 25000 | 23.3  | 28.7  | 36.0  | 39.8  | 41.8  | 43.7  | 45.4  | 47.1  | 48.8   | 50.5   | 52.2   | 53.9   | 55.6   | 57.3   | 59.0   | 60.7   | 62.4   | 64.1   | 65.8   | 67.5   | 69.2  | 70.9  |
|                    | 31500 | 18.5  | 18.7  | 25.0  | 28.9  | 30.9  | 31.5  | 32.0  | 32.6  | 33.1   | 33.7   | 34.2   | 34.8   | 35.3   | 35.9   | 36.4   | 36.9   | 37.5   | 38.0   | 38.5   | 39.0   | 39.6  | 40.1  |
|                    | 40000 |       | 8.5   | 8.9   | 11.5  | 12.6  | 13.0  | 13.4  | 13.8  | 14.2   | 14.6   | 15.0   | 15.4   | 15.8   | 16.2   | 16.6   | 17.0   | 17.4   | 17.8   | 18.2   | 18.6   | 19.0  | 19.4  |
|                    | 50000 |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |       |       |
|                    | 60000 |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |       |       |
|                    | 80000 |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |       |       |
| OVERALL CALCULATED |       | 64.7  | 66.7  | 68.2  | 69.4  | 71.1  | 72.0  | 72.6  | 72.0  | 69.3   | 66.1   |        |        |        |        |        |        |        |        |        |        |       |       |
| PNDR               |       | 74.2  | 76.7  | 78.7  | 80.4  | 82.3  | 83.2  | 83.9  | 83.6  | 78.0   | 71.0   |        |        |        |        |        |        |        |        |        |        |       |       |

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WHEEL SURFACE PRESSURE LEVELS (50. LF6. F. 70 PERCENT DEL. NUM. FAV)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

FIRE DATE - NORTH 3 DAY 2A NR. 12.0

|                    | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 100°  | 110°  | 120°  | 130°  | 140°  | 150°  | 160°  | 170°  | 180°  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SIDE LINE 200 FT.  | 100   | 120   | 140   | 160   | 180   | 200   | 220   | 240   | 260   | 280   | 300   | 320   | 340   | 360   | 380   | 400   | 420   | 440   | 460   |
| VEHICLE            | 124   | 124   | 124   | 124   | 124   | 124   | 124   | 124   | 124   | 124   | 124   | 124   | 124   | 124   | 124   | 124   | 124   | 124   | 124   |
| CONFIG             | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 130   | 130   |
| LCC SCHEDULE       | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   |
| DATE 1/22/75       | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   | 270   |
| RUN 03/5           | 318   | 318   | 318   | 318   | 318   | 318   | 318   | 318   | 318   | 318   | 318   | 318   | 318   | 318   | 318   | 318   | 318   | 318   | 318   |
| TARE               | 450   | 450   | 450   | 450   | 450   | 450   | 450   | 450   | 450   | 450   | 450   | 450   | 450   | 450   | 450   | 450   | 450   | 450   | 450   |
| BAR 30.9 MG        | 530   | 530   | 530   | 530   | 530   | 530   | 530   | 530   | 530   | 530   | 530   | 530   | 530   | 530   | 530   | 530   | 530   | 530   | 530   |
| (01957. N/M2)      | 430   | 430   | 430   | 430   | 430   | 430   | 430   | 430   | 430   | 430   | 430   | 430   | 430   | 430   | 430   | 430   | 430   | 430   | 430   |
| TARE               | 700   | 700   | 700   | 700   | 700   | 700   | 700   | 700   | 700   | 700   | 700   | 700   | 700   | 700   | 700   | 700   | 700   | 700   | 700   |
| (270. DEG F)       | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  |
| (30. DEG F)        | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  |
| (277. DEG F)       | 1850  | 1850  | 1850  | 1850  | 1850  | 1850  | 1850  | 1850  | 1850  | 1850  | 1850  | 1850  | 1850  | 1850  | 1850  | 1850  | 1850  | 1850  | 1850  |
| MACT 4.01 CM/MS    | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  |
| (0.00486 CM/MS)    | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  |
| MFA 7039. RPM      | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  | 3150  |
| (821. RA/SEC)      | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  | 4050  |
| MFK 7955. RPM      | 5050  | 5050  | 5050  | 5050  | 5050  | 5050  | 5050  | 5050  | 5050  | 5050  | 5050  | 5050  | 5050  | 5050  | 5050  | 5050  | 5050  | 5050  | 5050  |
| (433. RA/SEC)      | 6350  | 6350  | 6350  | 6350  | 6350  | 6350  | 6350  | 6350  | 6350  | 6350  | 6350  | 6350  | 6350  | 6350  | 6350  | 6350  | 6350  | 6350  | 6350  |
| MFC 8823. RPM      | 8550  | 8550  | 8550  | 8550  | 8550  | 8550  | 8550  | 8550  | 8550  | 8550  | 8550  | 8550  | 8550  | 8550  | 8550  | 8550  | 8550  | 8550  | 8550  |
| (824. RA/SEC)      | 10050 | 10050 | 10050 | 10050 | 10050 | 10050 | 10050 | 10050 | 10050 | 10050 | 10050 | 10050 | 10050 | 10050 | 10050 | 10050 | 10050 | 10050 | 10050 |
| NO. OF BLADES 15   | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 |
| FAV TIP SPEED      | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 |
| 664. FT/SEC        | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 |
|                    | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 |
|                    | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 |
|                    | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 |
|                    | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 |
|                    | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 |
| OVERALL CALCULATED | 64.6  | 66.3  | 68.0  | 69.4  | 71.0  | 72.1  | 72.6  | 71.8  | 69.1  | 66.0  |       |       |       |       |       |       |       |       |       |
| PM78               | 74.2  | 76.4  | 78.6  | 80.4  | 82.3  | 83.2  | 83.9  | 83.5  | 78.1  | 71.7  |       |       |       |       |       |       |       |       |       |

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VEHICLE SPEED OF 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 62°     | 71°    | 81°    | 91°    | 101°   | 111°   | 122°   | 133°   | 145°   | 150°   | 0°   | 0°   | 0°   | 0°   | 0°   | 0°   | 0°   | 0°   |     |       |       |
|--------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|------|-----|-------|-------|
|                    | (1.085) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 110° | 110° | 110° | 110° | 110° | 110° | 110° | 110° |     |       |       |
| RADIAL 17. FT.     | 59      | 63     | 68     | 73     | 78     | 83     | 88     | 93     | 98     | 103    | 108  | 113  | 118  | 123  | 128  | 133  | 138  | 143  | 148 |       |       |
| VEHICLE 1 S. M.    | 120     | 78.9   | 81.2   | 82.7   | 82.3   | 81.4   | 78.0   | 72.7   | 71.7   | 75.8   | 77.7 |      |      |      |      |      |      |      |     | 153.4 |       |
| VEHICLE 2 S. M.    | 120     | 69.7   | 71.7   | 68.0   | 72.4   | 67.4   | 67.0   | 71.5   | 77.7   | 73.0   | 74.2 |      |      |      |      |      |      |      |     |       | 104.0 |
| CR.FIG 75-R        | 120     | 65.0   | 65.9   | 67.3   | 67.9   | 67.4   | 69.3   | 70.2   | 72.0   | 73.3   | 75.9 |      |      |      |      |      |      |      |     |       | 103.6 |
| LTC SCHEMECTACY    | 220     | 64.2   | 64.1   | 64.5   | 67.9   | 69.9   | 70.8   | 72.0   | 73.4   | 75.4   | 76.9 |      |      |      |      |      |      |      |     |       | 105.1 |
| DATE 1/22/75       | 220     | 64.4   | 71.4   | 70.4   | 70.5   | 71.1   | 72.9   | 73.2   | 73.4   | 74.0   | 74.9 |      |      |      |      |      |      |      |     |       | 105.0 |
| RUN 637A           | 314     | 70.2   | 71.4   | 70.5   | 70.3   | 71.4   | 71.8   | 72.2   | 72.0   | 73.4   | 74.1 |      |      |      |      |      |      |      |     |       | 105.0 |
| TYPE               | 4.0     | 67.7   | 68.1   | 68.7   | 67.1   | 71.1   | 70.4   | 71.4   | 71.9   | 73.0   | 74.1 |      |      |      |      |      |      |      |     |       | 104.3 |
| BAR 30.2 MG        | 510     | 64.2   | 64.4   | 67.5   | 68.1   | 70.2   | 71.3   | 72.2   | 73.2   | 73.8   | 73.2 |      |      |      |      |      |      |      |     |       | 104.4 |
| (101957. 11/21)    | 630     | 47.4   | 68.9   | 71.3   | 72.1   | 73.7   | 74.0   | 75.0   | 76.0   | 76.5   | 74.2 |      |      |      |      |      |      |      |     |       | 107.4 |
| TANK 44 DEG F      | 630     | 67.5   | 67.1   | 71.3   | 71.8   | 73.7   | 75.2   | 75.7   | 76.4   | 76.8   | 73.2 |      |      |      |      |      |      |      |     |       | 107.5 |
| (274. DEG F)       | 1030    | 65.7   | 67.4   | 69.0   | 70.4   | 72.4   | 74.5   | 75.5   | 76.9   | 76.8   | 73.2 |      |      |      |      |      |      |      |     |       | 107.1 |
| TANK 39 DEG F      | 1230    | 67.5   | 69.1   | 71.4   | 72.1   | 74.5   | 76.0   | 79.0   | 80.2   | 81.3   | 74.7 |      |      |      |      |      |      |      |     |       | 110.2 |
| (277. DEG F)       | 1030    | 64.2   | 64.4   | 68.1   | 68.4   | 71.3   | 72.0   | 73.5   | 73.2   | 74.4   | 70.2 |      |      |      |      |      |      |      |     |       | 104.0 |
| MACT 60.84 24/73   | 2000    | 63.7   | 64.4   | 66.1   | 66.9   | 63.2   | 69.2   | 69.2   | 69.5   | 70.1   | 64.2 |      |      |      |      |      |      |      |     |       | 101.7 |
| (100400 KC/WT)     | 2000    | 62.7   | 64.9   | 64.9   | 65.4   | 71.3   | 69.5   | 69.4   | 71.7   | 71.6   | 67.1 |      |      |      |      |      |      |      |     |       | 102.0 |
| NFA 540. RPM       | 31.0    | 61.7   | 62.5   | 63.0   | 67.2   | 67.3   | 67.4   | 68.9   | 70.7   | 69.4   | 64.1 |      |      |      |      |      |      |      |     |       | 101.5 |
| ( 575. 24/SEC)     | 4000    | 63.5   | 62.3   | 60.7   | 64.4   | 71.5   | 73.4   | 76.4   | 76.9   | 73.5   | 64.0 |      |      |      |      |      |      |      |     |       | 100.3 |
| NFA 557. RPM       | 5000    | 61.7   | 63.8   | 65.4   | 68.4   | 71.7   | 74.0   | 78.3   | 77.1   | 73.5   | 64.5 |      |      |      |      |      |      |      |     |       | 107.1 |
| ( 584. 24/SEC)     | 6000    | 64.3   | 65.7   | 68.1   | 71.3   | 74.2   | 74.0   | 78.4   | 86.6   | 79.2   | 71.0 |      |      |      |      |      |      |      |     |       | 100.0 |
| NFA 623. RPM       | 8000    | 65.5   | 66.3   | 70.3   | 73.2   | 75.0   | 76.0   | 81.1   | 82.7   | 80.2   | 73.9 |      |      |      |      |      |      |      |     |       | 111.7 |
| ( 624. 24/SEC)     | 10000   | 71.1   | 72.8   | 76.8   | 80.1   | 83.4   | 85.9   | 85.4   | 87.6   | 86.4   | 83.6 |      |      |      |      |      |      |      |     |       | 117.0 |
| NO. OF BLADES 16   | 12000   | 66.8   | 68.7   | 74.2   | 74.5   | 81.1   | 83.3   | 84.0   | 86.1   | 81.6   | 79.0 |      |      |      |      |      |      |      |     |       | 119.0 |
| PM TIP SPEED 18000 | 18000   | 64.3   | 67.4   | 72.1   | 74.2   | 79.5   | 81.4   | 83.5   | 84.0   | 79.0   | 73.0 |      |      |      |      |      |      |      |     |       | 114.5 |
| 450. FT/SEC        | 20000   | 63.2   | 65.3   | 70.3   | 73.4   | 76.7   | 79.3   | 81.9   | 84.3   | 78.9   | 71.0 |      |      |      |      |      |      |      |     |       | 113.0 |
|                    | 25000   | 62.4   | 63.0   | 69.1   | 71.7   | 74.3   | 74.7   | 79.4   | 80.9   | 76.5   | 69.0 |      |      |      |      |      |      |      |     |       | 111.4 |
|                    | 31000   | 61.4   | 62.8   | 64.4   | 71.4   | 74.2   | 74.0   | 77.9   | 80.2   | 75.4   | 67.7 |      |      |      |      |      |      |      |     |       | 111.5 |
|                    | 40000   | 58.7   | 62.8   | 64.9   | 64.5   | 71.2   | 73.0   | 74.5   | 76.3   | 72.5   | 62.8 |      |      |      |      |      |      |      |     |       | 108.5 |
|                    | 50000   | 58.6   | 61.3   | 61.6   | 64.1   | 66.7   | 69.4   | 69.4   | 71.2   | 68.2   | 59.7 |      |      |      |      |      |      |      |     |       | 104.0 |
|                    | 60000   | 57.6   | 60.3   | 59.3   | 59.0   | 61.4   | 63.5   | 62.6   | 64.7   | 61.9   | 57.3 |      |      |      |      |      |      |      |     |       | 104.1 |
|                    | 80000   | 63.2   | 61.3   | 60.7   | 58.4   | 59.2   | 59.7   | 59.0   | 59.3   | 57.7   | 56.0 |      |      |      |      |      |      |      |     |       | 100.4 |
| OVERALL MEASURED   |         |        |        |        |        |        |        |        |        |        |      |      |      |      |      |      |      |      |     |       |       |
| OVERALL CALCULATED |         | 82.0   | 84.6   | 86.6   | 86.1   | 89.9   | 91.6   | 92.9   | 94.3   | 92.1   | 84.9 |      |      |      |      |      |      |      |     |       | 104.0 |
| PACH               |         | 80.4   | 81.9   | 84.3   | 84.4   | 88.9   | 100.8  | 101.5  | 102.7  | 101.0  | 90.9 |      |      |      |      |      |      |      |     |       |       |

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|                     | 110.5 | 111.2 | 112.0 | 113.0 | 114.0 | 115.0 | 116.0 | 117.0 | 118.0 | 119.0 | 120.0 | 121.0 | 122.0 | 123.0 | 124.0 | 125.0 | 126.0 | 127.0 | 128.0 | 129.0 | 130.0 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| STATION 200. FT.    | 119   | 124   | 129   | 134   | 139   | 144   | 149   | 154   | 159   | 164   | 169   | 174   | 179   | 184   | 189   | 194   | 199   | 204   | 209   | 214   | 219   |
| VELOCITY            | 44.2  | 45.9  | 47.6  | 49.3  | 51.0  | 52.7  | 54.4  | 56.1  | 57.8  | 59.5  | 61.2  | 62.9  | 64.6  | 66.3  | 68.0  | 69.7  | 71.4  | 73.1  | 74.8  | 76.5  | 78.2  |
| CRFIC               | 43.2  | 44.7  | 46.2  | 47.7  | 49.2  | 50.7  | 52.2  | 53.7  | 55.2  | 56.7  | 58.2  | 59.7  | 61.2  | 62.7  | 64.2  | 65.7  | 67.2  | 68.7  | 70.2  | 71.7  | 73.2  |
| LDC SCHEMECTARY     | 41.2  | 42.8  | 44.4  | 46.0  | 47.6  | 49.2  | 50.8  | 52.4  | 54.0  | 55.6  | 57.2  | 58.8  | 60.4  | 62.0  | 63.6  | 65.2  | 66.8  | 68.4  | 70.0  | 71.6  | 73.2  |
| DATE 1/22/75        | 45.3  | 46.8  | 48.3  | 49.8  | 51.3  | 52.8  | 54.3  | 55.8  | 57.3  | 58.8  | 60.3  | 61.8  | 63.3  | 64.8  | 66.3  | 67.8  | 69.3  | 70.8  | 72.3  | 73.8  | 75.3  |
| RUN 03/5            | 47.7  | 49.2  | 50.7  | 52.2  | 53.7  | 55.2  | 56.7  | 58.2  | 59.7  | 61.2  | 62.7  | 64.2  | 65.7  | 67.2  | 68.7  | 70.2  | 71.7  | 73.2  | 74.7  | 76.2  | 77.7  |
| TAPE                | 44.4  | 45.9  | 47.4  | 48.9  | 50.4  | 51.9  | 53.4  | 54.9  | 56.4  | 57.9  | 59.4  | 60.9  | 62.4  | 63.9  | 65.4  | 66.9  | 68.4  | 69.9  | 71.4  | 72.9  | 74.4  |
| BAR 37.2 HG         | 41.8  | 43.3  | 44.8  | 46.3  | 47.8  | 49.3  | 50.8  | 52.3  | 53.8  | 55.3  | 56.8  | 58.3  | 59.8  | 61.3  | 62.8  | 64.3  | 65.8  | 67.3  | 68.8  | 70.3  | 71.8  |
| (01057. 1/121)      | 44.0  | 45.5  | 47.0  | 48.5  | 50.0  | 51.5  | 53.0  | 54.5  | 56.0  | 57.5  | 59.0  | 60.5  | 62.0  | 63.5  | 65.0  | 66.5  | 68.0  | 69.5  | 71.0  | 72.5  | 74.0  |
| TAMB 44. DEG F      | 41.0  | 42.5  | 44.0  | 45.5  | 47.0  | 48.5  | 50.0  | 51.5  | 53.0  | 54.5  | 56.0  | 57.5  | 59.0  | 60.5  | 62.0  | 63.5  | 65.0  | 66.5  | 68.0  | 69.5  | 71.0  |
| (200. DEG W)        | 41.9  | 43.4  | 44.9  | 46.4  | 47.9  | 49.4  | 50.9  | 52.4  | 53.9  | 55.4  | 56.9  | 58.4  | 59.9  | 61.4  | 62.9  | 64.4  | 65.9  | 67.4  | 68.9  | 70.4  | 71.9  |
| T.CY 30. DEG F      | 43.5  | 45.0  | 46.5  | 48.0  | 49.5  | 51.0  | 52.5  | 54.0  | 55.5  | 57.0  | 58.5  | 60.0  | 61.5  | 63.0  | 64.5  | 66.0  | 67.5  | 69.0  | 70.5  | 72.0  | 73.5  |
| (277. DEG W)        | 42.1  | 43.6  | 45.1  | 46.6  | 48.1  | 49.6  | 51.1  | 52.6  | 54.1  | 55.6  | 57.1  | 58.6  | 60.1  | 61.6  | 63.1  | 64.6  | 66.1  | 67.6  | 69.1  | 70.6  | 72.1  |
| MACT 4.00 RPM       | 33.7  | 35.2  | 36.7  | 38.2  | 39.7  | 41.2  | 42.7  | 44.2  | 45.7  | 47.2  | 48.7  | 50.2  | 51.7  | 53.2  | 54.7  | 56.2  | 57.7  | 59.2  | 60.7  | 62.2  | 63.7  |
| (0048) HG/HR        | 33.3  | 34.8  | 36.3  | 37.8  | 39.3  | 40.8  | 42.3  | 43.8  | 45.3  | 46.8  | 48.3  | 49.8  | 51.3  | 52.8  | 54.3  | 55.8  | 57.3  | 58.8  | 60.3  | 61.8  | 63.3  |
| MFA 5475 RPM        | 35.2  | 36.7  | 38.2  | 39.7  | 41.2  | 42.7  | 44.2  | 45.7  | 47.2  | 48.7  | 50.2  | 51.7  | 53.2  | 54.7  | 56.2  | 57.7  | 59.2  | 60.7  | 62.2  | 63.7  | 65.2  |
| (575. 20/SEC)       | 33.2  | 34.7  | 36.2  | 37.7  | 39.2  | 40.7  | 42.2  | 43.7  | 45.2  | 46.7  | 48.2  | 49.7  | 51.2  | 52.7  | 54.2  | 55.7  | 57.2  | 58.7  | 60.2  | 61.7  | 63.2  |
| MFR 5575 RPM        | 36.1  | 37.6  | 39.1  | 40.6  | 42.1  | 43.6  | 45.1  | 46.6  | 48.1  | 49.6  | 51.1  | 52.6  | 54.1  | 55.6  | 57.1  | 58.6  | 60.1  | 61.6  | 63.1  | 64.6  | 66.1  |
| (504. 20/SEC)       | 37.7  | 39.2  | 40.7  | 42.2  | 43.7  | 45.2  | 46.7  | 48.2  | 49.7  | 51.2  | 52.7  | 54.2  | 55.7  | 57.2  | 58.7  | 60.2  | 61.7  | 63.2  | 64.7  | 66.2  | 67.7  |
| MFD 6023 RPM        | 37.0  | 38.5  | 40.0  | 41.5  | 43.0  | 44.5  | 46.0  | 47.5  | 49.0  | 50.5  | 52.0  | 53.5  | 55.0  | 56.5  | 58.0  | 59.5  | 61.0  | 62.5  | 64.0  | 65.5  | 67.0  |
| (024. 20/SEC)       | 41.7  | 43.2  | 44.7  | 46.2  | 47.7  | 49.2  | 50.7  | 52.2  | 53.7  | 55.2  | 56.7  | 58.2  | 59.7  | 61.2  | 62.7  | 64.2  | 65.7  | 67.2  | 68.7  | 70.2  | 71.7  |
| NO. OF BLADES 15    | 34.9  | 36.4  | 37.9  | 39.4  | 40.9  | 42.4  | 43.9  | 45.4  | 46.9  | 48.4  | 49.9  | 51.4  | 52.9  | 54.4  | 55.9  | 57.4  | 58.9  | 60.4  | 61.9  | 63.4  | 64.9  |
| PAN TIP SPEED 18000 | 24.8  | 26.3  | 27.8  | 29.3  | 30.8  | 32.3  | 33.8  | 35.3  | 36.8  | 38.3  | 39.8  | 41.3  | 42.8  | 44.3  | 45.8  | 47.3  | 48.8  | 50.3  | 51.8  | 53.3  | 54.8  |
| 400. FT/SEC         | 21.7  | 23.2  | 24.7  | 26.2  | 27.7  | 29.2  | 30.7  | 32.2  | 33.7  | 35.2  | 36.7  | 38.2  | 39.7  | 41.2  | 42.7  | 44.2  | 45.7  | 47.2  | 48.7  | 50.2  | 51.7  |
|                     | 25000 | 12.8  | 14.3  | 15.8  | 17.3  | 18.8  | 20.3  | 21.8  | 23.3  | 24.8  | 26.3  | 27.8  | 29.3  | 30.8  | 32.3  | 33.8  | 35.3  | 36.8  | 38.3  | 39.8  | 41.3  |
|                     | 31500 | 5.7   | 7.2   | 8.7   | 10.2  | 11.7  | 13.2  | 14.7  | 16.2  | 17.7  | 19.2  | 20.7  | 22.2  | 23.7  | 25.2  | 26.7  | 28.2  | 29.7  | 31.2  | 32.7  | 34.2  |
| 40000               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 50000               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 60000               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 70000               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| OVERALL CALCULATED  | 58.3  | 61.5  | 63.3  | 64.8  | 64.6  | 64.6  | 64.4  | 63.5  | 60.5  | 55.1  |       |       |       |       |       |       |       |       |       |       |       |
| PAJG                | 65.8  | 67.4  | 69.8  | 71.5  | 73.7  | 74.7  | 75.5  | 74.3  | 70.5  | 61.2  |       |       |       |       |       |       |       |       |       |       |       |



APPROX. FUEL INLET 1.0 MEGAES (400 GAL/HR)

|                     | 71    | 81   | 91   | 101  | 111  | 121  | 131  | 141  | 151  | 161  | 171  | 181 | 191 | 201 |
|---------------------|-------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| SI-CELLINE 300. FT. | 63    |      |      |      |      |      |      |      |      |      |      |     |     |     |
| VEHICLE 60.75 P1    | 17.5  | 54.7 | 59.1 | 61.0 | 67.7 | 53.7 | 49.1 | 44.4 | 47.9 | 48.7 | 47.1 |     |     |     |
| CONFIG 75-0         | 124   | 45.5 | 48.7 | 47.2 | 50.4 | 46.1 | 45.0 | 48.8 | 46.9 | 45.8 | 44.7 |     |     |     |
| LCC SCHEMECTADY     | 274   | 41.7 | 47.5 | 44.5 | 47.5 | 47.4 | 47.1 | 48.4 | 48.4 | 47.8 | 45.7 |     |     |     |
| DATE 1/22/75        | 278   | 44.8 | 47.0 | 47.7 | 47.6 | 47.0 | 49.0 | 49.1 | 48.1 | 48.0 | 43.8 |     |     |     |
| RUN 62/1            | 315   | 44.5 | 47.4 | 48.6 | 48.3 | 49.0 | 48.4 | 48.2 | 47.5 | 45.8 | 43.0 |     |     |     |
| TAPE                | 404   | 44.7 | 45.1 | 47.8 | 47.8 | 47.7 | 48.3 | 47.0 | 47.1 | 45.1 | 42.1 |     |     |     |
| BAR 30.2 MC         | 500   | 45.1 | 45.7 | 45.2 | 48.7 | 47.4 | 47.9 | 48.5 | 48.0 | 45.7 | 41.0 |     |     |     |
| (01057. H/12)       | 630   | 47.5 | 45.9 | 47.6 | 49.4 | 51.0 | 52.1 | 51.4 | 50.3 | 47.8 | 42.1 |     |     |     |
| TRAIL 43. TEC F     | 800   | 44.0 | 48.3 | 48.3 | 49.9 | 53.0 | 51.0 | 51.5 | 49.9 | 47.3 | 46.0 |     |     |     |
| (278. TEC F)        | 1020  | 42.2 | 43.3 | 45.3 | 47.1 | 49.0 | 50.3 | 50.6 | 50.5 | 48.1 | 39.2 |     |     |     |
| T-CT 37. TEC F      | 1250  | 43.3 | 45.7 | 45.4 | 48.8 | 50.2 | 52.9 | 55.2 | 54.1 | 52.1 | 41.4 |     |     |     |
| (276. TEC F)        | 1470  | 39.0 | 42.3 | 43.0 | 45.4 | 47.3 | 48.7 | 49.5 | 48.4 | 46.1 | 32.2 |     |     |     |
| WAT 4.35 F/10       | 2000  | 37.9 | 42.9 | 43.5 | 47.7 | 44.9 | 44.0 | 44.4 | 44.4 | 42.5 | 34.4 |     |     |     |
| (80435 F/10)        | 2530  | 33.5 | 41.9 | 43.0 | 47.3 | 46.7 | 46.1 | 46.5 | 48.6 | 45.7 | 35.2 |     |     |     |
| W/ 5483. RPM        | 3170  | 37.0 | 38.1 | 41.7 | 47.1 | 45.4 | 45.5 | 45.4 | 46.7 | 43.0 | 32.2 |     |     |     |
| (572. WAT/SEC)      | 4300  | 37.3 | 39.6 | 41.7 | 44.5 | 46.5 | 45.5 | 48.1 | 48.0 | 45.2 | 33.3 |     |     |     |
| WPC 4584. RPM       | 5000  | 38.2 | 38.8 | 41.5 | 47.2 | 46.2 | 48.4 | 48.0 | 47.7 | 45.8 | 32.9 |     |     |     |
| (582. WAT/SEC)      | 6370  | 38.4 | 41.3 | 43.0 | 48.1 | 50.0 | 51.5 | 53.0 | 53.2 | 48.0 | 33.7 |     |     |     |
| WPS 8423. RPM       | 8000  | 39.7 | 42.3 | 45.4 | 47.0 | 51.5 | 52.3 | 53.7 | 52.6 | 48.5 | 32.9 |     |     |     |
| T 824. WAT/SEC      | 13000 | 37.5 | 43.0 | 48.4 | 54.5 | 50.4 | 57.8 | 58.4 | 57.6 | 47.8 | 34.5 |     |     |     |
| MC. OF PLATES 1g    | 15000 | 44.7 | 41.7 | 37.7 | 50.3 | 60.1 | 58.5 | 57.6 | 56.3 | 44.5 | 29.7 |     |     |     |
| PER TIP SPEED       | 18000 | 32.6 | 37.1 | 42.8 | 48.4 | 49.3 | 50.0 | 49.7 | 48.0 | 33.0 | 14.7 |     |     |     |
| 437. F/75EC         | 23000 | 24.0 | 29.0 | 34.4 | 37.7 | 40.9 | 41.0 | 42.4 | 39.5 | 28.0 | 1.4  |     |     |     |
|                     | 25000 | 19.7 | 18.4 | 23.0 | 27.2 | 32.2 | 30.0 | 29.7 | 25.0 | 8.0  |      |     |     |     |
|                     | 31500 | 1.0  | 6.9  | 13.0 | 18.6 | 19.0 | 18.3 | 16.1 | 9.2  |      |      |     |     |     |
|                     | 48000 |      |      |      | 0.6  |      |      |      |      |      |      |     |     |     |
|                     | 58000 |      |      |      |      |      |      |      |      |      |      |     |     |     |
|                     | 63000 |      |      |      |      |      |      |      |      |      |      |     |     |     |
|                     | 80000 |      |      |      |      |      |      |      |      |      |      |     |     |     |
| OVERALL CAL. C/A    | ATC   | 54.6 | 62.4 | 65.2 | 65.7 | 64.3 | 65.3 | 68.4 | 64.4 | 60.3 | 54.8 |     |     |     |
|                     | WDR   | 55.4 | 69.7 | 72.8 | 73.6 | 74.9 | 74.0 | 75.4 | 74.0 | 70.8 | 61.0 |     |     |     |

|                    | 100   | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180  | 190  | 200  | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 |       |
|--------------------|-------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| RADIAL 17. FT.     | 74.4  | 74.7 | 71.5 | 70.3 | 69.0 | 71.5 | 72.0 | 73.0 | 76.3 | 80.4 |      |     |     |     |     |     |     |     |     |     |     | 107.0 |
| VEHICLE 1 50 MI    | 174   | 71.2 | 72.9 | 71.1 | 73.7 | 71.1 | 71.0 | 74.0 | 75.0 | 76.5 | 79.9 |     |     |     |     |     |     |     |     |     |     | 107.7 |
| CC FIG 75-9        | 170   | 71.7 | 75.4 | 72.2 | 70.3 | 72.1 | 72.0 | 73.7 | 75.7 | 77.0 | 79.4 |     |     |     |     |     |     |     |     |     |     | 107.1 |
| LCC SCHEDULED      | 270   | 67.4 | 68.3 | 69.7 | 71.1 | 73.5 | 75.0 | 75.7 | 77.2 | 79.3 | 80.9 |     |     |     |     |     |     |     |     |     |     | 100.0 |
| DATE 1/22/75       | 270   | 71.2 | 72.7 | 72.9 | 73.1 | 74.1 | 75.0 | 75.5 | 76.7 | 77.7 | 79.4 |     |     |     |     |     |     |     |     |     |     | 100.0 |
| RLR 62/2           | 314   | 73.4 | 73.2 | 73.5 | 73.5 | 74.1 | 74.5 | 75.0 | 76.2 | 77.3 | 79.0 |     |     |     |     |     |     |     |     |     |     | 100.7 |
| TYPE               | 420   | 74.4 | 71.1 | 72.0 | 72.3 | 73.4 | 73.4 | 74.2 | 75.9 | 77.3 | 77.9 |     |     |     |     |     |     |     |     |     |     | 107.9 |
| FAR 31.0 MG        | 570   | 65.4 | 67.0 | 70.2 | 71.1 | 72.3 | 74.5 | 74.5 | 74.7 | 77.0 | 76.9 |     |     |     |     |     |     |     |     |     |     | 107.7 |
| 10157.0 (1/21)     | 620   | 69.3 | 71.7 | 73.5 | 74.5 | 75.2 | 77.0 | 78.0 | 76.2 | 78.0 | 77.4 |     |     |     |     |     |     |     |     |     |     | 110.2 |
| TAIN 42. SEC F     | 820   | 71.7 | 73.1 | 73.2 | 73.0 | 75.9 | 77.3 | 77.4 | 79.4 | 78.0 | 76.2 |     |     |     |     |     |     |     |     |     |     | 109.7 |
| 1270. SEC F        | 1000  | 68.9 | 69.9 | 71.7 | 73.1 | 74.7 | 76.6 | 77.5 | 79.4 | 78.0 | 75.4 |     |     |     |     |     |     |     |     |     |     | 100.3 |
| TYPE 37. SEC F     | 1250  | 67.7 | 69.1 | 71.1 | 71.4 | 74.2 | 74.5 | 77.7 | 79.7 | 78.0 | 75.4 |     |     |     |     |     |     |     |     |     |     | 100.2 |
| (270. SEC F)       | 1500  | 59.0 | 70.4 | 73.0 | 72.1 | 73.5 | 70.0 | 70.2 | 61.7 | 62.1 | 74.2 |     |     |     |     |     |     |     |     |     |     | 112.4 |
| MART 4.35 G/MY     | 2000  | 56.3 | 67.6 | 69.6 | 70.7 | 71.7 | 72.5 | 73.9 | 76.0 | 75.1 | 72.4 |     |     |     |     |     |     |     |     |     |     | 100.0 |
| (.20435 G/MY)      | 2500  | 64.3 | 64.1 | 70.4 | 71.7 | 72.8 | 72.2 | 73.2 | 76.7 | 75.1 | 71.7 |     |     |     |     |     |     |     |     |     |     | 100.4 |
| MFA 62.0. APP      | 3100  | 64.3 | 67.9 | 69.5 | 71.0 | 74.0 | 74.7 | 75.7 | 81.8 | 77.1 | 72.0 |     |     |     |     |     |     |     |     |     |     | 100.7 |
| (64.0. APP)        | 4000  | 65.3 | 67.1 | 69.4 | 71.4 | 73.7 | 73.9 | 74.4 | 79.7 | 76.3 | 71.0 |     |     |     |     |     |     |     |     |     |     | 100.2 |
| MFA 63.5. APP      | 5000  | 64.5 | 67.2 | 69.2 | 71.2 | 74.7 | 77.2 | 79.3 | 80.9 | 77.4 | 72.0 |     |     |     |     |     |     |     |     |     |     | 110.0 |
| (63.5. APP)        | 6000  | 67.1 | 69.5 | 72.1 | 74.1 | 78.2 | 81.9 | 82.4 | 84.6 | 80.7 | 74.0 |     |     |     |     |     |     |     |     |     |     | 113.5 |
| MFA 67.3. APP      | 8000  | 71.5 | 71.4 | 74.0 | 77.3 | 80.9 | 83.4 | 85.1 | 86.3 | 82.7 | 76.2 |     |     |     |     |     |     |     |     |     |     | 115.0 |
| (67.3. APP)        | 10000 | 74.4 | 73.4 | 76.9 | 79.4 | 83.3 | 85.7 | 86.1 | 87.6 | 83.2 | 77.2 |     |     |     |     |     |     |     |     |     |     | 117.3 |
| NO. OF PLACES 15   | 12500 | 75.6 | 80.0 | 84.7 | 87.8 | 92.5 | 89.3 | 90.7 | 90.1 | 84.4 | 79.9 |     |     |     |     |     |     |     |     |     |     | 122.2 |
| FAL TIP SPEED      | 16000 | 72.1 | 75.4 | 80.0 | 84.5 | 88.4 | 87.4 | 88.4 | 88.9 | 82.9 | 77.9 |     |     |     |     |     |     |     |     |     |     | 130.1 |
| 540. FT/SEC        | 20000 | 67.5 | 72.9 | 77.0 | 80.1 | 83.3 | 84.1 | 84.2 | 80.4 | 83.5 | 77.1 |     |     |     |     |     |     |     |     |     |     | 110.0 |
|                    | 25000 | 65.9 | 68.9 | 73.0 | 77.1 | 80.2 | 82.9 | 84.0 | 84.6 | 80.9 | 74.3 |     |     |     |     |     |     |     |     |     |     | 117.0 |
|                    | 31500 | 64.4 | 67.7 | 72.1 | 74.5 | 78.4 | 80.9 | 83.4 | 84.7 | 79.0 | 71.0 |     |     |     |     |     |     |     |     |     |     | 110.1 |
|                    | 40000 | 62.5 | 64.6 | 69.1 | 72.5 | 75.2 | 78.0 | 79.5 | 81.1 | 75.0 | 64.4 |     |     |     |     |     |     |     |     |     |     | 110.2 |
|                    | 50000 | 61.2 | 62.9 | 64.0 | 64.0 | 70.9 | 74.0 | 74.1 | 75.1 | 71.1 | 62.4 |     |     |     |     |     |     |     |     |     |     | 100.0 |
|                    | 63000 | 60.5 | 60.5 | 60.7 | 61.8 | 64.3 | 67.5 | 64.6 | 64.5 | 64.4 | 50.4 |     |     |     |     |     |     |     |     |     |     | 107.2 |
|                    | 80000 | 64.6 | 60.8 | 60.8 | 59.0 | 60.6 | 60.0 | 60.1 | 61.2 | 58.0 | 57.0 |     |     |     |     |     |     |     |     |     |     | 101.0 |
| OVERALL MEASURE    |       | 84.5 | 86.4 | 89.4 | 92.1 | 94.6 | 95.6 | 96.9 | 98.0 | 94.1 | 91.3 |     |     |     |     |     |     |     |     |     |     | 120.0 |
| OVERALL CALCULATOR |       | 85.2 | 84.7 | 85.5 | 88.4 | 89.9 | 90.2 | 90.2 | 90.2 | 89.8 | 86.1 |     |     |     |     |     |     |     |     |     |     | 100.1 |

ORIGINAL PAGE IS OF POOR QUALITY

PROG. DATE = MONTH 3 DAY 28 HR. 11.8  
 HOTEL SOUND PRESSURE LEVELS (50. PERC. P. 70 PERCENTY REL. HUM. EAV)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 62     | 71     | 81     | 91     | 101    | 111    | 121    | 131    | 141    | 151    | 0.   | 0. | 0. | 0. | 0. | 0. | 0. |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|----|
|                    | (1.08) | (1.24) | (1.41) | (1.58) | (1.75) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0.  | 0. | 0. | 0. | 0. | 0. | 0. |
| SIDE LINE 200. FT. | 63     |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
| (60.96 M)          | 60     |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
| VEHICLE            | 100    | 53.7   | 52.6   | 49.8   | 48.7   | 48.2   | 49.3   | 48.9   | 48.5   | 49.7   | 50.3 |    |    |    |    |    |    |
| (F-5)              | 125    | 44.4   | 50.7   | 49.2   | 51.5   | 49.3   | 48.7   | 50.8   | 50.4   | 49.8   | 49.7 |    |    |    |    |    |    |
| CONFIG             | 150    | 46.3   | 47.2   | 47.4   | 48.1   | 48.3   | 48.7   | 50.5   | 51.1   | 50.2   | 48.9 |    |    |    |    |    |    |
| (75-9)             | 200    | 44.4   | 46.6   | 47.8   | 49.5   | 51.7   | 51.3   | 52.4   | 52.4   | 52.3   | 50.2 |    |    |    |    |    |    |
| LCC SCHEMATIC      | 250    | 43.1   | 50.5   | 50.0   | 51.4   | 52.1   | 52.5   | 52.1   | 51.8   | 50.6   | 48.5 |    |    |    |    |    |    |
| DATE 1/22/75       | 315    | 49.3   | 51.1   | 51.4   | 51.6   | 52.3   | 51.9   | 51.5   | 51.2   | 50.0   | 47.8 |    |    |    |    |    |    |
| RUN 62/2           | 400    | 47.2   | 48.6   | 49.4   | 50.2   | 51.2   | 51.0   | 51.6   | 50.0   | 49.8   | 45.6 |    |    |    |    |    |    |
| TAPE               | 500    | 45.1   | 47.0   | 48.0   | 48.9   | 50.6   | 51.7   | 51.8   | 51.5   | 49.4   | 45.3 |    |    |    |    |    |    |
| BAR 30-2 MG        | 630    | 46.5   | 44.9   | 51.1   | 52.3   | 53.8   | 54.8   | 54.1   | 53.8   | 51.3   | 45.6 |    |    |    |    |    |    |
| (01957. 5/M2)      | 800    | 48.1   | 49.2   | 50.8   | 51.4   | 53.4   | 54.2   | 53.5   | 52.9   | 50.1   | 44.0 |    |    |    |    |    |    |
| TAMB 42. DEG F     | 1000   | 45.2   | 46.9   | 49.1   | 50.6   | 52.8   | 52.8   | 53.3   | 53.7   | 50.6   | 42.9 |    |    |    |    |    |    |
| (275. DEG K)       | 1250   | 47.8   | 46.0   | 48.3   | 49.0   | 51.4   | 53.2   | 53.4   | 53.3   | 50.4   | 42.6 |    |    |    |    |    |    |
| TACT 37. DEG F     | 1500   | 44.9   | 47.0   | 50.7   | 54.4   | 56.5   | 56.5   | 55.7   | 55.6   | 53.3   | 42.9 |    |    |    |    |    |    |
| (276. DEG K)       | 2000   | 41.2   | 44.1   | 46.5   | 47.7   | 48.6   | 48.8   | 48.8   | 49.6   | 46.0   | 38.7 |    |    |    |    |    |    |
| NACT 4.35 GH/M3    | 2500   | 42.3   | 44.4   | 47.2   | 48.6   | 49.4   | 48.3   | 48.3   | 48.3   | 45.7   | 37.0 |    |    |    |    |    |    |
| (.00435 KG/M3)     | 3100   | 41.5   | 43.9   | 45.9   | 48.1   | 50.4   | 50.5   | 50.4   | 54.0   | 47.2   | 37.7 |    |    |    |    |    |    |
| NFA 6250. RPM      | 4000   | 40.0   | 42.6   | 45.5   | 47.6   | 49.7   | 49.3   | 50.9   | 52.1   | 45.7   | 35.6 |    |    |    |    |    |    |
| (654. RAD/SEC)     | 5000   | 39.9   | 43.1   | 45.0   | 47.1   | 50.4   | 49.9   | 53.3   | 53.0   | 46.8   | 36.2 |    |    |    |    |    |    |
| NFK 6355. RPM      | 6300   | 40.7   | 44.0   | 47.2   | 49.3   | 53.2   | 56.2   | 55.8   | 55.7   | 48.5   | 36.2 |    |    |    |    |    |    |
| (685. RAD/SEC)     | 8000   | 41.9   | 45.0   | 48.6   | 51.0   | 54.8   | 56.6   | 57.0   | 55.9   | 46.5   | 34.9 |    |    |    |    |    |    |
| NFD 8223. RPM      | 10000  | 41.0   | 45.2   | 49.4   | 52.5   | 55.4   | 57.3   | 56.2   | 55.1   | 46.3   | 32.0 |    |    |    |    |    |    |
| (924. RAD/SEC)     | 12500  | 43.7   | 49.5   | 55.0   | 58.2   | 60.8   | 58.5   | 58.1   | 54.5   | 43.5   | 28.9 |    |    |    |    |    |    |
| NJ. OF BLADES 15   | 16000  | 36.1   | 41.1   | 47.5   | 51.4   | 52.8   | 52.7   | 51.9   | 48.2   | 35.7   | 17.5 |    |    |    |    |    |    |
| FAN TIP SPEED      | 20000  | 27.8   | 33.5   | 39.4   | 42.2   | 44.9   | 46.3   | 45.6   | 43.0   | 27.7   | 4.4  |    |    |    |    |    |    |
| 546. FT/SEC        | 25000  | 15.7   | 22.4   | 27.9   | 32.4   | 35.9   | 35.6   | 34.2   | 29.7   | 13.0   |      |    |    |    |    |    |    |
|                    | 31500  | 4.0    | 10.6   | 17.0   | 21.1   | 23.0   | 23.1   | 20.8   | 13.9   |        |      |    |    |    |    |    |    |
|                    | 40000  |        |        |        | 3.2    | 4.8    | 5.0    |        |        |        |      |    |    |    |    |    |    |
|                    | 50000  |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
|                    | 63000  |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
|                    | 80000  |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
| OVERALL CALCULATED | 59.7   | 61.4   | 63.1   | 65.0   | 66.9   | 67.2   | 67.1   | 66.6   | 62.9   | 58.7   |      |    |    |    |    |    |    |
| PNDR               | 68.1   | 70.5   | 72.6   | 74.8   | 76.8   | 78.3   | 78.2   | 78.4   | 73.7   | 65.3   |      |    |    |    |    |    |    |



APPROX. SOUND PRESSURE LEVELS (50. DBG. @ 70 PERCENTY DEL. NUM. DAY)  
ARCLES FROM INLET IN DEGREES (AND RADIAN)

|   | 57°   | 71°  | 81°  | 91°   | 101°  | 111°  | 121°  | 133°  | 145°  | 156°  | 0°   | 0°  | 0°  | 0°  | 0°  | 0°  | PML   |
|---|-------|------|------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|-----|-----|-----|-------|
| FREQ. (1.27)(1.24)(1.41)(1.54)(1.76)(1.94)(2.13)(2.32)(2.52)(2.73)(3.0) | 100   | 110  | 116  | 120   | 124   | 128   | 132   | 136   | 140   | 144   | 148  | 152 | 156 | 160 | 164 | 168 |       |
| RADIAL 17. FT.  | 100   | 71.9 | 73.4 | 71.4  | 70.3  | 71.9  | 71.6  | 72.7  | 74.0  | 80.8  | 83.9 |     |     |     |     |     | 109.6 |
| VEHICLE 1 S. M.   | 100   | 71.9 | 73.4 | 71.4  | 70.3  | 71.9  | 71.6  | 72.7  | 74.0  | 80.8  | 83.9 |     |     |     |     |     | 112.0 |
| CONFIC 75-9   | 100   | 71.9 | 73.4 | 71.4  | 70.3  | 71.9  | 71.6  | 72.7  | 74.0  | 80.8  | 83.9 |     |     |     |     |     | 110.7 |
| LTC SCHEMECTADY   | 200   | 70.1 | 71.6 | 72.4  | 74.1  | 74.1  | 74.9  | 74.9  | 78.9  | 80.5  | 82.4 |     |     |     |     |     | 112.1 |
| DATE 1/22/75  | 200   | 74.4 | 75.2 | 76.1  | 77.7  | 77.4  | 77.6  | 78.9  | 80.7  | 82.4  | 83.6 |     |     |     |     |     | 112.7 |
| RUN 62/3  | 314   | 75.9 | 76.6 | 76.4  | 76.7  | 77.4  | 77.8  | 78.6  | 79.7  | 81.6  | 83.1 |     |     |     |     |     | 112.4 |
| TAPE  | 400   | 73.6 | 74.4 | 74.7  | 75.4  | 75.9  | 77.1  | 78.4  | 79.7  | 81.1  | 81.6 |     |     |     |     |     | 111.3 |
| BAR 30.2 HG   | 500   | 71.4 | 72.4 | 73.2  | 74.4  | 74.2  | 77.4  | 78.7  | 76.7  | 81.3  | 80.4 |     |     |     |     |     | 111.0 |
| (31957. 1/2)  | 630   | 73.1 | 74.9 | 74.4  | 77.7  | 78.7  | 80.4  | 81.2  | 82.0  | 82.1  | 80.6 |     |     |     |     |     | 113.0 |
| TANK 42 DEG F   | 800   | 73.5 | 75.1 | 74.2  | 77.1  | 74.4  | 79.6  | 80.7  | 81.0  | 83.3  | 79.9 |     |     |     |     |     | 112.9 |
| (279. DEG F)  | 1000  | 71.9 | 73.4 | 74.4  | 77.9  | 77.5  | 78.6  | 80.1  | 81.7  | 82.4  | 78.9 |     |     |     |     |     | 112.3 |
| YLET 17. DEG F  | 1200  | 73.4 | 72.6 | 74.5  | 74.9  | 77.9  | 78.6  | 80.1  | 81.7  | 82.4  | 78.1 |     |     |     |     |     | 111.9 |
| (274. DEG F)  | 1400  | 73.4 | 74.5 | 75.0  | 75.9  | 77.3  | 79.3  | 83.9  | 82.5  | 82.4  | 77.4 |     |     |     |     |     | 112.6 |
| MACT 2.35 CM/MS   | 2000  | 71.2 | 72.3 | 73.8  | 75.1  | 76.5  | 77.8  | 79.1  | 81.5  | 82.4  | 76.4 |     |     |     |     |     | 111.6 |
| (1.00435 KG/MS)   | 2500  | 70.9 | 71.6 | 73.9  | 75.9  | 76.0  | 75.3  | 77.1  | 80.5  | 80.9  | 75.6 |     |     |     |     |     | 110.4 |
| NFA 3025 RPM  | 3100  | 69.2 | 70.1 | 72.9  | 74.5  | 74.5  | 76.9  | 78.3  | 81.7  | 78.4  | 74.3 |     |     |     |     |     | 110.5 |
| ( 730. RPM/SEC)   | 1000  | 69.2 | 71.6 | 72.1  | 75.3  | 77.7  | 80.3  | 83.4  | 79.4  | 74.5  |      |     |     |     |     |     | 111.0 |
| NFK 7143 RPM  | 5000  | 63.2 | 70.5 | 72.9  | 75.5  | 77.2  | 80.7  | 81.7  | 83.6  | 80.6  | 74.7 |     |     |     |     |     | 112.7 |
| ( 740. RPM/SEC)   | 6300  | 72.5 | 72.2 | 74.5  | 76.5  | 80.2  | 82.9  | 85.0  | 87.4  | 81.4  | 76.6 |     |     |     |     |     | 115.6 |
| NFC 8323 RPM  | 8000  | 72.5 | 74.8 | 77.8  | 79.5  | 83.6  | 84.0  | 84.3  | 89.8  | 84.4  | 74.4 |     |     |     |     |     | 116.6 |
| ( 924. RPM/SEC)   | 11000 | 72.3 | 74.9 | 75.9  | 81.4  | 83.7  | 87.5  | 80.2  | 90.7  | 84.3  | 76.9 |     |     |     |     |     | 119.6 |
| NO. OF BLADES 15  | 12500 | 74.1 | 78.2 | 81.9  | 84.9  | 87.2  | 89.9  | 91.6  | 91.6  | 85.7  | 80.1 |     |     |     |     |     | 121.0 |
| FALL TIP SPEED 18000  | 16000 | 73.6 | 74.4 | 81.9  | 84.4  | 87.1  | 89.4  | 91.5  | 91.4  | 84.5  | 79.3 |     |     |     |     |     | 122.1 |
| 613. FT/SEC   | 20000 | 72.9 | 77.3 | 81.6  | 84.5  | 86.5  | 89.2  | 92.1  | 92.6  | 85.4  | 79.6 |     |     |     |     |     | 122.9 |
| 25000   | 25000 | 76.4 | 73.9 | 78.2  | 81.4  | 84.2  | 86.7  | 89.3  | 90.3  | 84.0  | 77.5 |     |     |     |     |     | 121.0 |
| 31500   | 31500 | 67.5 | 72.2 | 76.6  | 79.7  | 82.9  | 85.2  | 87.3  | 88.4  | 81.4  | 74.3 |     |     |     |     |     | 120.1 |
| 40000   | 40000 | 65.7 | 69.8 | 72.6  | 76.5  | 79.3  | 82.1  | 83.4  | 84.4  | 78.4  | 69.8 |     |     |     |     |     | 117.8 |
| 51000   | 51000 | 64.9 | 67.7 | 69.0  | 72.5  | 75.4  | 78.4  | 78.5  | 79.6  | 74.9  | 66.1 |     |     |     |     |     | 119.3 |
| 63000   | 63000 | 65.2 | 66.7 | 65.7  | 67.4  | 73.1  | 71.8  | 71.0  | 72.5  | 68.4  | 63.6 |     |     |     |     |     | 111.9 |
| 80000   | 80000 | 68.9 | 70.8 | 67.0  | 67.0  | 68.1  | 68.1  | 67.2  | 67.0  | 66.4  | 65.0 |     |     |     |     |     | 114.3 |
| OVERALL MEASURED  |       |      |      |       |       |       |       |       |       |       |      |     |     |     |     |     |       |
| OVERALL CALCULATED  | 87.0  | 89.1 | 91.1 | 93.1  | 95.5  | 97.8  | 99.8  | 100.7 | 96.9  | 94.5  |      |     |     |     |     |     | 131.3 |
| PPDR  | 96.2  | 97.3 | 98.5 | 101.1 | 103.4 | 105.2 | 107.1 | 109.1 | 106.6 | 103.9 |      |     |     |     |     |     |       |

|                           | 60     | 71     | 81     | 91     | 101    | 111    | 121    | 131    | 141    | 151    | 0.   | 0. | 0. | 0. | 0. | 0. | 0. |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|----|----|----|----|----|----|
| FREQ.                     | (1.05) | (1.24) | (1.41) | (1.58) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0.   | 0. | 0. | 0. | 0. | 0. | 0. |
| SIGNAL 200. FT.           | 50     |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
| (60.96 M)                 | 63     |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
| VEHICLE R-55              | 100    | 49.2   | 51.3   | 49.7   | 49.3   | 50.2   | 49.4   | 49.6   | 51.5   | 54.3   | 53.8 |    |    |    |    |    |    |
| CONFIG 75-9               | 125    | 55.8   | 57.5   | 55.9   | 55.5   | 52.5   | 51.6   | 54.3   | 53.9   | 54.2   | 52.9 |    |    |    |    |    |    |
| LRC SCHELECTARY           | 160    | 49.0   | 49.3   | 51.4   | 51.4   | 51.9   | 49.7   | 53.9   | 54.3   | 55.0   | 52.9 |    |    |    |    |    |    |
| DATE 1/22/75              | 200    | 47.1   | 49.3   | 50.5   | 52.3   | 54.2   | 54.4   | 55.6   | 55.7   | 55.9   | 54.2 |    |    |    |    |    |    |
| RUN 62/3                  | 250    | 51.3   | 53.5   | 54.1   | 55.3   | 55.3   | 56.1   | 55.5   | 55.8   | 55.5   | 53.0 |    |    |    |    |    |    |
| TAPE                      | 315    | 52.7   | 54.1   | 54.3   | 54.9   | 55.3   | 55.2   | 55.4   | 54.7   | 54.6   | 52.0 |    |    |    |    |    |    |
| BAR 30.2 MC               | 400    | 50.4   | 51.8   | 52.5   | 53.3   | 53.7   | 54.4   | 54.8   | 54.4   | 53.7   | 50.5 |    |    |    |    |    |    |
| (01657. 11/M2)            | 500    | 45.8   | 45.7   | 50.9   | 52.2   | 53.9   | 54.5   | 54.9   | 54.5   | 53.8   | 48.8 |    |    |    |    |    |    |
| TAMP 42. DEG F            | 630    | 48.7   | 52.1   | 54.1   | 54.7   | 56.3   | 57.4   | 57.3   | 56.6   | 54.3   | 48.8 |    |    |    |    |    |    |
| (274. DEG K)              | 800    | 50.3   | 52.2   | 57.7   | 54.8   | 55.9   | 56.5   | 56.7   | 55.4   | 55.4   | 47.7 |    |    |    |    |    |    |
| TACT 37. DEG F            | 1000   | 48.1   | 50.3   | 51.8   | 51.4   | 54.8   | 55.4   | 56.0   | 56.0   | 54.7   | 46.4 |    |    |    |    |    |    |
| (274. DEG K)              | 1250   | 46.5   | 46.5   | 50.8   | 52.3   | 54.2   | 55.3   | 55.8   | 55.8   | 53.9   | 45.3 |    |    |    |    |    |    |
| MACT 4.35 CM/FT           | 1600   | 48.3   | 51.3   | 52.1   | 57.2   | 54.5   | 55.8   | 56.4   | 56.4   | 53.7   | 44.1 |    |    |    |    |    |    |
| (.00435 KG/FT)            | 2000   | 46.6   | 49.3   | 50.7   | 52.2   | 53.4   | 54.1   | 54.4   | 55.1   | 53.8   | 42.6 |    |    |    |    |    |    |
| NFA 7024. RPM             | 2500   | 45.5   | 47.6   | 50.6   | 51.7   | 52.7   | 51.4   | 52.2   | 53.9   | 51.8   | 41.4 |    |    |    |    |    |    |
| (730. 442/SEC)            | 3100   | 44.4   | 46.4   | 49.4   | 51.1   | 53.2   | 51.9   | 53.1   | 54.7   | 48.6   | 39.4 |    |    |    |    |    |    |
| NFK 7143. RPM             | 4000   | 43.9   | 46.4   | 49.2   | 51.5   | 53.0   | 53.1   | 54.5   | 55.9   | 48.8   | 38.5 |    |    |    |    |    |    |
| (748. RAT/SFC)            | 5000   | 42.6   | 45.3   | 48.7   | 51.4   | 52.9   | 55.8   | 55.7   | 55.7   | 49.6   | 38.1 |    |    |    |    |    |    |
| NFD 8323. RPM             | 6300   | 44.1   | 46.8   | 49.6   | 51.9   | 55.2   | 57.3   | 58.2   | 58.5   | 49.5   | 38.4 |    |    |    |    |    |    |
| (924. RAT/SEC)            | 8000   | 44.9   | 48.2   | 51.8   | 53.8   | 57.6   | 59.2   | 60.1   | 59.4   | 50.6   | 37.1 |    |    |    |    |    |    |
| NO. OF BLADES 15          | 10000  | 47.0   | 48.7   | 51.3   | 54.1   | 56.1   | 59.1   | 59.8   | 58.1   | 47.4   | 33.7 |    |    |    |    |    |    |
| FAN TIP SPEED 813. FT/SEC | 12500  | 42.2   | 47.7   | 52.2   | 55.3   | 57.3   | 59.1   | 59.1   | 56.0   | 44.9   | 29.1 |    |    |    |    |    |    |
|                           | 15000  | 37.6   | 44.1   | 48.5   | 51.4   | 53.6   | 55.1   | 54.6   | 50.8   | 37.3   | 18.9 |    |    |    |    |    |    |
|                           | 20000  | 31.5   | 37.8   | 43.4   | 46.1   | 48.4   | 49.4   | 49.5   | 45.3   | 29.8   | 8.8  |    |    |    |    |    |    |
|                           | 25000  | 21.2   | 27.4   | 33.1   | 35.5   | 39.9   | 39.6   | 38.6   | 33.5   | 16.1   |      |    |    |    |    |    |    |
|                           | 31500  | 7.9    | 15.1   | 21.4   | 25.1   | 27.6   | 27.4   | 24.7   | 17.7   |        |      |    |    |    |    |    |    |
|                           | 40000  |        |        | 2.5    | 7.3    | 8.9    | 8.4    | 3.3    |        |        |      |    |    |    |    |    |    |
|                           | 50000  |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
|                           | 63000  |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
|                           | 80000  |        |        |        |        |        |        |        |        |        |      |    |    |    |    |    |    |
| OVERALL CALCULATED        | 62.3   | 64.4   | 65.5   | 66.7   | 68.2   | 69.3   | 69.8   | 69.4   | 66.7   | 62.4   |      |    |    |    |    |    |    |
| PNDR                      | 71.2   | 73.7   | 75.8   | 77.4   | 79.1   | 80.3   | 81.0   | 81.2   | 76.8   | 68.4   |      |    |    |    |    |    |    |

INLET SIZE 150. DEG. F. = 70 PERCENT REL. HUM. (DAY)  
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 62°   | 71°   | 81°   | 91°   | 101°  | 111°  | 122°  | 133°  | 145°  | 156°  | 0°    | 0°   | 0°   | 0°   | 0°   | 0°   | PWL   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|
| FREQ.              | 11.23 | 11.24 | 11.41 | 11.50 | 11.74 | 11.94 | 12.13 | 12.32 | 12.52 | 12.73 | 10.   | 110. | 110. | 110. | 110. | 110. | T     |
| RADIAL 17. FT.     | 150   | 71.0  | 72.3  | 72.9  | 74.4  | 74.2  | 74.1  | 74.9  | 79.0  | 84.3  | 87.9  |      |      |      |      |      | 112.7 |
| VEHICLE 1 5. H)    | 125   | 76.9  | 76.5  | 75.9  | 77.7  | 77.2  | 77.6  | 80.4  | 81.7  | 84.1  | 84.9  |      |      |      |      |      | 114.0 |
| CONFIG 75-9        | 160   | 75.4  | 75.6  | 76.2  | 76.1  | 76.7  | 76.6  | 80.4  | 82.5  | 84.8  | 87.1  |      |      |      |      |      | 114.2 |
| LOC SEMIJECTORY    | 200   | 77.1  | 74.1  | 75.2  | 76.9  | 79.4  | 81.4  | 81.9  | 83.5  | 86.1  | 88.1  |      |      |      |      |      | 115.2 |
| DATE 1/22/75       | 250   | 77.7  | 80.6  | 81.4  | 81.4  | 83.1  | 81.0  | 85.1  | 85.5  | 87.4  | 87.0  |      |      |      |      |      | 117.7 |
| RUN 6774           | 315   | 78.9  | 79.4  | 79.7  | 80.1  | 80.7  | 81.0  | 81.4  | 83.5  | 85.4  | 86.6  |      |      |      |      |      | 115.0 |
| TAPE               | 400   | 76.7  | 77.4  | 78.2  | 77.6  | 77.7  | 80.9  | 81.9  | 82.7  | 85.1  | 85.4  |      |      |      |      |      | 114.9 |
| SAP 30.2 HG        | 500   | 74.1  | 74.3  | 74.4  | 77.4  | 78.7  | 80.0  | 81.7  | 83.0  | 84.3  | 84.6  |      |      |      |      |      | 114.2 |
| (01457. W/M2)      | 670   | 75.4  | 77.4  | 78.7  | 79.7  | 81.2  | 81.1  | 83.4  | 84.5  | 84.3  | 84.1  |      |      |      |      |      | 115.0 |
| TAMB 42. DEG F     | 800   | 77.1  | 77.9  | 78.9  | 79.9  | 81.7  | 82.6  | 83.4  | 83.7  | 85.1  | 83.9  |      |      |      |      |      | 115.6 |
| (279. DEG K)       | 1000  | 75.1  | 74.1  | 77.7  | 78.6  | 83.0  | 81.8  | 83.1  | 84.2  | 84.1  | 82.6  |      |      |      |      |      | 114.9 |
| TAFY 37. DEG F     | 1250  | 73.3  | 75.4  | 76.8  | 78.2  | 79.5  | 81.8  | 82.4  | 84.2  | 83.0  | 82.4  |      |      |      |      |      | 114.5 |
| (279. DEG K)       | 1600  | 73.7  | 75.1  | 76.8  | 77.7  | 79.5  | 81.3  | 81.4  | 82.7  | 82.1  | 80.4  |      |      |      |      |      | 113.5 |
| HART 4.35 GM/MS    | 2000  | 75.0  | 77.6  | 78.6  | 80.0  | 81.0  | 82.6  | 85.4  | 87.7  | 84.4  | 81.6  |      |      |      |      |      | 116.6 |
| (.00435 KG/MS)     | 2500  | 73.7  | 75.4  | 77.4  | 78.5  | 79.0  | 79.1  | 81.1  | 84.0  | 81.2  | 78.9  |      |      |      |      |      | 113.4 |
| NFA 7415. RPM      | 3150  | 72.2  | 73.5  | 75.4  | 77.5  | 78.5  | 78.5  | 79.8  | 83.7  | 80.7  | 77.6  |      |      |      |      |      | 112.7 |
| ( 818. W-1/SEC)    | 4000  | 72.5  | 74.6  | 76.9  | 78.3  | 80.3  | 82.0  | 84.3  | 87.7  | 82.1  | 73.5  |      |      |      |      |      | 115.0 |
| NFK 7946. RPM      | 5000  | 71.4  | 73.3  | 76.4  | 78.8  | 80.2  | 82.2  | 84.0  | 85.9  | 82.1  | 77.7  |      |      |      |      |      | 114.9 |
| ( 832. W-1/SEC)    | 6300  | 71.3  | 76.0  | 78.5  | 79.6  | 84.2  | 84.9  | 87.3  | 91.7  | 84.3  | 79.1  |      |      |      |      |      | 118.8 |
| NFD 8823. RPM      | 8000  | 74.5  | 77.1  | 81.8  | 83.1  | 86.1  | 88.7  | 90.5  | 92.3  | 86.3  | 80.9  |      |      |      |      |      | 121.1 |
| ( 924. W-1/SEC)    | 10000 | 74.6  | 77.1  | 81.4  | 84.4  | 85.3  | 88.3  | 92.0  | 92.4  | 84.5  | 80.4  |      |      |      |      |      | 122.0 |
| NO. OF BLADES 15   | 12500 | 74.6  | 80.7  | 84.4  | 87.4  | 89.7  | 92.4  | 94.1  | 94.4  | 88.4  | 83.1  |      |      |      |      |      | 124.5 |
| FAH TIP SPEED      | 16000 | 74.6  | 81.9  | 84.9  | 87.3  | 87.4  | 92.3  | 93.7  | 93.2  | 87.0  | 82.1  |      |      |      |      |      | 124.4 |
| 682. FT/SEC        | 20000 | 74.4  | 81.7  | 85.8  | 88.2  | 90.8  | 93.0  | 95.8  | 95.1  | 89.1  | 83.1  |      |      |      |      |      | 126.3 |
|                    | 25000 | 74.4  | 79.2  | 83.5  | 86.2  | 88.5  | 91.7  | 94.0  | 94.6  | 87.7  | 82.0  |      |      |      |      |      | 125.5 |
|                    | 31500 | 72.5  | 77.3  | 80.9  | 84.2  | 86.9  | 89.5  | 91.4  | 92.4  | 85.8  | 79.6  |      |      |      |      |      | 124.2 |
|                    | 40000 | 69.4  | 73.8  | 77.1  | 80.3  | 83.0  | 86.4  | 86.9  | 88.4  | 82.4  | 73.1  |      |      |      |      |      | 121.7 |
|                    | 50000 | 66.4  | 70.9  | 72.7  | 74.5  | 79.2  | 81.9  | 82.3  | 83.1  | 78.7  | 64.6  |      |      |      |      |      | 119.0 |
|                    | 63000 | 65.4  | 68.2  | 67.4  | 70.1  | 72.8  | 75.3  | 74.5  | 75.5  | 72.0  | 64.6  |      |      |      |      |      | 114.8 |
|                    | 80000 | 68.4  | 70.3  | 67.0  | 67.0  | 68.1  | 68.6  | 68.2  | 69.2  | 67.1  | 65.0  |      |      |      |      |      | 114.7 |
| OVERALL MEASURED   |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |       |
| OVERALL CALCULATED |       | 89.5  | 91.9  | 94.4  | 94.5  | 98.6  | 101.2 | 103.0 | 103.6 | 99.7  | 98.1  |      |      |      |      |      | 124.5 |
| PWLN               |       | 89.2  | 100.9 | 102.8 | 104.3 | 106.6 | 108.6 | 109.8 | 112.2 | 108.8 | 105.5 |      |      |      |      |      |       |

WIND SPEED MEASUREMENT LEVELS (50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

|                    | 42°    | 71°    | 91°    | 91°    | 101°   | 111°   | 121°   | 131°   | 141°   | 151°   | 0°    | 0°    | 0°    | 0°    | 0°    | 0°    | 0°    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
|                    | (0.73) | (1.24) | (1.57) | (1.57) | (1.76) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | (0)   | (0)   | (0)   | (0)   | (0)   | (0)   | (0)   |
| SIDEWIND 200. FT.  | 50     | 53     | 56     | 59     | 62     | 65     | 68     | 71     | 74     | 77     | 80    | 83    | 86    | 89    | 92    | 95    | 98    |
| VEHICLE R-MS       | 125    | 129    | 133    | 137    | 141    | 145    | 149    | 153    | 157    | 161    | 165   | 169   | 173   | 177   | 181   | 185   | 189   |
| CONFIC 75-0        | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160    | 160   | 160   | 160   | 160   | 160   | 160   | 160   |
| LCC SCHEMECTARY    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200    | 200   | 200   | 200   | 200   | 200   | 200   | 200   |
| DATE 1/22/75       | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250    | 250   | 250   | 250   | 250   | 250   | 250   | 250   |
| RUL 62/4           | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315    | 315   | 315   | 315   | 315   | 315   | 315   | 315   |
| TAPE               | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400    | 400   | 400   | 400   | 400   | 400   | 400   | 400   |
| BAR 30.2 MG        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500   | 500   | 500   | 500   | 500   | 500   | 500   |
| (01057. N/12)      | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600   | 600   | 600   | 600   | 600   | 600   | 600   |
| TAMB 42. DEG F     | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800   | 800   | 800   | 800   | 800   | 800   | 800   |
| (279. DEG K)       | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000   | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  | 1000  |
| TACT 37. DEG F     | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250   | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  | 1250  |
| (276. DEG K)       | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600   | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  |
| HACT 2.35 GM/MS    | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000   | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  |
| (.00435 KG/MS)     | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  | 2500  |
| NFA 7018. RPM      | 3100   | 3100   | 3100   | 3100   | 3100   | 3100   | 3100   | 3100   | 3100   | 3100   | 3100  | 3100  | 3100  | 3100  | 3100  | 3100  | 3100  |
| ( 818. RAD/SEC)    | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  | 4000  |
| NFK 7946. RPM      | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  | 5000  |
| ( 832. RAD/SEC)    | 6000   | 6000   | 6000   | 6000   | 6000   | 6000   | 6000   | 6000   | 6000   | 6000   | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  | 6000  |
| NFD 8421. RPM      | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000   | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  | 8000  |
| ( 924. RAD/SEC)    | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 |
| NO. OF BLADES 15   | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500  | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 |
| FAN TIP SPEED      | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000  | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 | 16000 |
| 682. FT/SEC        | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000  | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 |
|                    | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000  | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 |
|                    | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500  | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 | 31500 |
|                    | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000  | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 | 40000 |
|                    | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000  | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 |
|                    | 60000  | 60000  | 60000  | 60000  | 60000  | 60000  | 60000  | 60000  | 60000  | 60000  | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 | 60000 |
| OVERALL CALCULATED | 64.7   | 66.7   | 68.5   | 69.9   | 71.3   | 72.5   | 72.8   | 72.4   | 69.4   | 66.2   |       |       |       |       |       |       |       |
| PAGE               | 74.4   | 77.0   | 79.1   | 80.7   | 82.4   | 83.8   | 83.8   | 84.5   | 79.8   | 72.4   |       |       |       |       |       |       |       |

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|                    | 60     | 71     | 81     | 91     | 101    | 111    | 122    | 133    | 143    | 150    | 0    | 0 | 0 | 0 | 0 | 0 |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|---|---|---|---|---|
|                    | (1.05) | (1.24) | (1.41) | (1.58) | (1.74) | (1.94) | (2.13) | (2.32) | (2.52) | (2.73) | 0    | 0 | 0 | 0 | 0 | 0 |
| SIGNAL 200. FT.    | 150    | 44.0   | 50.8   | 51.0   | 51.5   | 52.4   | 57.2   | 57.3   | 54.0   | 57.3   | 57.0 |   |   |   |   |   |
| VEHICLE R-55       | 125    | 54.1   | 54.3   | 54.4   | 55.5   | 55.7   | 56.8   | 57.8   | 57.9   | 57.4   | 57.1 |   |   |   |   |   |
| CONFIG 75-9        | 170    | 53.2   | 53.4   | 54.1   | 54.1   | 54.5   | 55.2   | 56.7   | 57.8   | 58.3   | 56.4 |   |   |   |   |   |
| LOC SCHEMECTARY    | 200    | 50.6   | 52.1   | 54.0   | 55.3   | 57.2   | 57.9   | 58.3   | 58.7   | 59.9   | 57.4 |   |   |   |   |   |
| DATE 1/22/75       | 270    | 50.5   | 52.5   | 50.1   | 50.2   | 53.6   | 61.3   | 62.2   | 61.1   | 60.5   | 57.2 |   |   |   |   |   |
| RUN 62/5           | 315    | 50.7   | 55.6   | 57.8   | 57.2   | 59.8   | 56.5   | 54.6   | 57.5   | 54.3   | 55.3 |   |   |   |   |   |
| TAPE               | 400    | 53.9   | 54.8   | 55.7   | 54.5   | 57.2   | 57.9   | 57.5   | 57.9   | 57.2   | 54.3 |   |   |   |   |   |
| BAR 30.2 MC        | 500    | 52.9   | 52.2   | 53.9   | 55.0   | 56.6   | 57.6   | 57.4   | 57.7   | 56.5   | 53.0 |   |   |   |   |   |
| (10157. 1/HZ)      | 630    | 51.9   | 54.4   | 56.6   | 57.7   | 54.8   | 59.9   | 59.5   | 57.9   | 56.4   | 51.0 |   |   |   |   |   |
| TAP 42. DEG F      | 800    | 54.5   | 55.0   | 56.5   | 57.5   | 59.9   | 56.3   | 59.2   | 58.7   | 56.6   | 51.5 |   |   |   |   |   |
| (275. DEG K)       | 1070   | 57.5   | 52.8   | 54.6   | 55.7   | 57.6   | 58.7   | 58.4   | 58.5   | 55.7   | 50.1 |   |   |   |   |   |
| TACT 37. DEG F     | 1250   | 53.3   | 52.2   | 54.0   | 55.4   | 57.4   | 58.3   | 57.8   | 57.8   | 54.7   | 48.5 |   |   |   |   |   |
| (276. DEG K)       | 1500   | 54.3   | 51.5   | 53.4   | 54.9   | 56.5   | 57.1   | 56.9   | 57.1   | 52.0   | 46.9 |   |   |   |   |   |
| MACT 4.35 GM/MS    | 2000   | 51.1   | 52.8   | 55.0   | 57.0   | 57.6   | 59.4   | 60.9   | 61.4   | 55.1   | 47.4 |   |   |   |   |   |
| (.00435 KG/MS)     | 2500   | 48.7   | 51.2   | 53.9   | 55.1   | 55.7   | 55.4   | 56.2   | 57.9   | 51.6   | 44.7 |   |   |   |   |   |
| NFA 7816. RPM      | 3100   | 47.2   | 49.4   | 51.6   | 53.4   | 54.9   | 54.9   | 55.1   | 57.0   | 50.3   | 42.4 |   |   |   |   |   |
| (.116. RAD/SEC)    | 4000   | 46.9   | 49.6   | 52.9   | 55.2   | 56.3   | 57.4   | 58.5   | 59.6   | 59.0   | 42.0 |   |   |   |   |   |
| NFK 7947. RPM      | 5000   | 45.4   | 48.6   | 51.2   | 53.7   | 55.9   | 57.0   | 57.7   | 57.7   | 50.8   | 40.9 |   |   |   |   |   |
| (.832. RAD/SEC)    | 6300   | 46.4   | 50.3   | 53.4   | 55.1   | 59.5   | 61.6   | 60.2   | 61.3   | 51.8   | 40.1 |   |   |   |   |   |
| NFD 8823. RPM      | 8070   | 46.9   | 50.5   | 54.3   | 57.0   | 60.1   | 61.9   | 62.4   | 62.1   | 51.8   | 39.1 |   |   |   |   |   |
| (.924. RAD/SEC)    | 10000  | 45.0   | 49.4   | 52.6   | 56.8   | 59.6   | 61.6   | 62.1   | 59.9   | 48.2   | 35.2 |   |   |   |   |   |
| NO. OF BLADES 15   | 12500  | 44.2   | 50.0   | 54.4   | 57.6   | 59.3   | 61.9   | 61.6   | 54.5   | 47.4   | 31.4 |   |   |   |   |   |
| FAN TIP SPEED      | 16000  | 40.3   | 46.6   | 51.3   | 54.2   | 56.1   | 57.6   | 57.3   | 52.8   | 39.5   | 21.2 |   |   |   |   |   |
| 682. FT/SEC        | 20000  | 35.3   | 42.3   | 46.9   | 50.6   | 52.4   | 53.9   | 53.0   | 48.8   | 32.8   | 9.8  |   |   |   |   |   |
|                    | 25000  | 24.9   | 32.4   | 37.6   | 41.3   | 43.2   | 45.1   | 42.9   | 37.5   | 20.4   |      |   |   |   |   |   |
|                    | 31500  | 12.2   | 15.8   | 25.7   | 29.4   | 31.9   | 32.1   | 29.5   | 21.4   |        |      |   |   |   |   |   |
|                    | 40000  |        | 6.5    | 7.9    | 11.6   | 12.6   | 12.9   | 7.0    |        |        |      |   |   |   |   |   |
|                    | 50000  |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
|                    | 63000  |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
|                    | 80000  |        |        |        |        |        |        |        |        |        |      |   |   |   |   |   |
| OVERALL CALCULATED |        | 65.8   | 66.6   | 68.3   | 69.8   | 71.3   | 72.6   | 72.7   | 72.5   | 69.3   | 66.1 |   |   |   |   |   |
| PNCB               |        | 75.3   | 76.6   | 78.9   | 80.7   | 82.5   | 83.9   | 83.8   | 84.3   | 78.8   | 72.1 |   |   |   |   |   |

|                | 50 | 71 | 91 | 111 | 131 | 151 | 171 | 191 | 211 | 231 | 251 | 271 | 291 | 311 | 331 | 351 | 371 | 391 | 411 | 431 | 451 | 471 | 491 | 511 | 531 | 551 | 571 | 591 | 611 | 631 | 651 | 671 | 691 | 711 | 731 | 751 | 771 | 791 | 811 | 831 | 851 | 871 | 891 | 911 | 931 | 951 | 971 | 991 | 1011 | 1031 | 1051 | 1071 | 1091 | 1111 | 1131 | 1151 | 1171 | 1191 | 1211 | 1231 | 1251 | 1271 | 1291 | 1311 | 1331 | 1351 | 1371 | 1391 | 1411 | 1431 | 1451 | 1471 | 1491 | 1511 | 1531 | 1551 | 1571 | 1591 | 1611 | 1631 | 1651 | 1671 | 1691 | 1711 | 1731 | 1751 | 1771 | 1791 | 1811 | 1831 | 1851 | 1871 | 1891 | 1911 | 1931 | 1951 | 1971 | 1991 | 2011 | 2031 | 2051 | 2071 | 2091 | 2111 | 2131 | 2151 | 2171 | 2191 | 2211 | 2231 | 2251 | 2271 | 2291 | 2311 | 2331 | 2351 | 2371 | 2391 | 2411 | 2431 | 2451 | 2471 | 2491 | 2511 | 2531 | 2551 | 2571 | 2591 | 2611 | 2631 | 2651 | 2671 | 2691 | 2711 | 2731 | 2751 | 2771 | 2791 | 2811 | 2831 | 2851 | 2871 | 2891 | 2911 | 2931 | 2951 | 2971 | 2991 | 3011 | 3031 | 3051 | 3071 | 3091 | 3111 | 3131 | 3151 | 3171 | 3191 | 3211 | 3231 | 3251 | 3271 | 3291 | 3311 | 3331 | 3351 | 3371 | 3391 | 3411 | 3431 | 3451 | 3471 | 3491 | 3511 | 3531 | 3551 | 3571 | 3591 | 3611 | 3631 | 3651 | 3671 | 3691 | 3711 | 3731 | 3751 | 3771 | 3791 | 3811 | 3831 | 3851 | 3871 | 3891 | 3911 | 3931 | 3951 | 3971 | 3991 | 4011 | 4031 | 4051 | 4071 | 4091 | 4111 | 4131 | 4151 | 4171 | 4191 | 4211 | 4231 | 4251 | 4271 | 4291 | 4311 | 4331 | 4351 | 4371 | 4391 | 4411 | 4431 | 4451 | 4471 | 4491 | 4511 | 4531 | 4551 | 4571 | 4591 | 4611 | 4631 | 4651 | 4671 | 4691 | 4711 | 4731 | 4751 | 4771 | 4791 | 4811 | 4831 | 4851 | 4871 | 4891 | 4911 | 4931 | 4951 | 4971 | 4991 | 5011 | 5031 | 5051 | 5071 | 5091 | 5111 | 5131 | 5151 | 5171 | 5191 | 5211 | 5231 | 5251 | 5271 | 5291 | 5311 | 5331 | 5351 | 5371 | 5391 | 5411 | 5431 | 5451 | 5471 | 5491 | 5511 | 5531 | 5551 | 5571 | 5591 | 5611 | 5631 | 5651 | 5671 | 5691 | 5711 | 5731 | 5751 | 5771 | 5791 | 5811 | 5831 | 5851 | 5871 | 5891 | 5911 | 5931 | 5951 | 5971 | 5991 | 6011 | 6031 | 6051 | 6071 | 6091 | 6111 | 6131 | 6151 | 6171 | 6191 | 6211 | 6231 | 6251 | 6271 | 6291 | 6311 | 6331 | 6351 | 6371 | 6391 | 6411 | 6431 | 6451 | 6471 | 6491 | 6511 | 6531 | 6551 | 6571 | 6591 | 6611 | 6631 | 6651 | 6671 | 6691 | 6711 | 6731 | 6751 | 6771 | 6791 | 6811 | 6831 | 6851 | 6871 | 6891 | 6911 | 6931 | 6951 | 6971 | 6991 | 7011 | 7031 | 7051 | 7071 | 7091 | 7111 | 7131 | 7151 | 7171 | 7191 | 7211 | 7231 | 7251 | 7271 | 7291 | 7311 | 7331 | 7351 | 7371 | 7391 | 7411 | 7431 | 7451 | 7471 | 7491 | 7511 | 7531 | 7551 | 7571 | 7591 | 7611 | 7631 | 7651 | 7671 | 7691 | 7711 | 7731 | 7751 | 7771 | 7791 | 7811 | 7831 | 7851 | 7871 | 7891 | 7911 | 7931 | 7951 | 7971 | 7991 | 8011 | 8031 | 8051 | 8071 | 8091 | 8111 | 8131 | 8151 | 8171 | 8191 | 8211 | 8231 | 8251 | 8271 | 8291 | 8311 | 8331 | 8351 | 8371 | 8391 | 8411 | 8431 | 8451 | 8471 | 8491 | 8511 | 8531 | 8551 | 8571 | 8591 | 8611 | 8631 | 8651 | 8671 | 8691 | 8711 | 8731 | 8751 | 8771 | 8791 | 8811 | 8831 | 8851 | 8871 | 8891 | 8911 | 8931 | 8951 | 8971 | 8991 | 9011 | 9031 | 9051 | 9071 | 9091 | 9111 | 9131 | 9151 | 9171 | 9191 | 9211 | 9231 | 9251 | 9271 | 9291 | 9311 | 9331 | 9351 | 9371 | 9391 | 9411 | 9431 | 9451 | 9471 | 9491 | 9511 | 9531 | 9551 | 9571 | 9591 | 9611 | 9631 | 9651 | 9671 | 9691 | 9711 | 9731 | 9751 | 9771 | 9791 | 9811 | 9831 | 9851 | 9871 | 9891 | 9911 | 9931 | 9951 | 9971 | 9991 | 10011 | 10031 | 10051 | 10071 | 10091 | 10111 | 10131 | 10151 | 10171 | 10191 | 10211 | 10231 | 10251 | 10271 | 10291 | 10311 | 10331 | 10351 | 10371 | 10391 | 10411 | 10431 | 10451 | 10471 | 10491 | 10511 | 10531 | 10551 | 10571 | 10591 | 10611 | 10631 | 10651 | 10671 | 10691 | 10711 | 10731 | 10751 | 10771 | 10791 | 10811 | 10831 | 10851 | 10871 | 10891 | 10911 | 10931 | 10951 | 10971 | 10991 | 11011 | 11031 | 11051 | 11071 | 11091 | 11111 | 11131 | 11151 | 11171 | 11191 | 11211 | 11231 | 11251 | 11271 | 11291 | 11311 | 11331 | 11351 | 11371 | 11391 | 11411 | 11431 | 11451 | 11471 | 11491 | 11511 | 11531 | 11551 | 11571 | 11591 | 11611 | 11631 | 11651 | 11671 | 11691 | 11711 | 11731 | 11751 | 11771 | 11791 | 11811 | 11831 | 11851 | 11871 | 11891 | 11911 | 11931 | 11951 | 11971 | 11991 | 12011 | 12031 | 12051 | 12071 | 12091 | 12111 | 12131 | 12151 | 12171 | 12191 | 12211 | 12231 | 12251 | 12271 | 12291 | 12311 | 12331 | 12351 | 12371 | 12391 | 12411 | 12431 | 12451 | 12471 | 12491 | 12511 | 12531 | 12551 | 12571 | 12591 | 12611 | 12631 | 12651 | 12671 | 12691 | 12711 | 12731 | 12751 | 12771 | 12791 | 12811 | 12831 | 12851 | 12871 | 12891 | 12911 | 12931 | 12951 | 12971 | 12991 | 13011 | 13031 | 13051 | 13071 | 13091 | 13111 | 13131 | 13151 | 13171 | 13191 | 13211 | 13231 | 13251 | 13271 | 13291 | 13311 | 13331 | 13351 | 13371 | 13391 | 13411 | 13431 | 13451 | 13471 | 13491 | 13511 | 13531 | 13551 | 13571 | 13591 | 13611 | 13631 | 13651 | 13671 | 13691 | 13711 | 13731 | 13751 | 13771 | 13791 | 13811 | 13831 | 13851 | 13871 | 13891 | 13911 | 13931 | 13951 | 13971 | 13991 | 14011 | 14031 | 14051 | 14071 | 14091 | 14111 | 14131 | 14151 | 14171 | 14191 | 14211 | 14231 | 14251 | 14271 | 14291 | 14311 | 14331 | 14351 | 14371 | 14391 | 14411 | 14431 | 14451 | 14471 | 14491 | 14511 | 14531 | 14551 | 14571 | 14591 | 14611 | 14631 | 14651 | 14671 | 14691 | 14711 | 14731 | 14751 | 14771 | 14791 | 14811 | 14831 | 14851 | 14871 | 14891 | 14911 | 14931 | 14951 | 14971 | 14991 | 15011 | 15031 | 15051 | 15071 | 15091 | 15111 | 15131 | 15151 | 15171 | 15191 | 15211 | 15231 | 15251 | 15271 | 15291 | 15311 | 15331 | 15351 | 15371 | 15391 | 15411 | 15431 | 15451 | 15471 | 15491 | 15511 | 15531 | 15551 | 15571 | 15591 | 15611 | 15631 | 15651 | 15671 | 15691 | 15711 | 15731 | 15751 | 15771 | 15791 | 15811 | 15831 | 15851 | 15871 | 15891 | 15911 | 15931 | 15951 | 15971 | 15991 | 16011 | 16031 | 16051 | 16071 | 16091 | 16111 | 16131 | 16151 | 16171 | 16191 | 16211 | 16231 | 16251 | 16271 | 16291 | 16311 | 16331 | 16351 | 16371 | 16391 | 16411 | 16431 | 16451 | 16471 | 16491 | 16511 | 16531 | 16551 | 16571 | 16591 | 16611 | 16631 | 16651 | 16671 | 16691 | 16711 | 16731 | 16751 | 16771 | 16791 | 16811 | 16831 | 16851 | 16871 | 16891 | 16911 | 16931 | 16951 | 16971 | 16991 | 17011 | 17031 | 17051 | 17071 | 17091 | 17111 | 17131 | 17151 | 17171 | 17191 | 17211 | 17231 | 17251 | 17271 | 17291 | 17311 | 17331 | 17351 | 17371 | 17391 | 17411 | 17431 | 17451 | 17471 | 17491 | 17511 | 17531 | 17551 | 17571 | 17591 | 17611 | 17631 | 17651 | 17671 | 17691 | 17711 | 17731 | 17751 | 17771 | 17791 | 17811 | 17831 | 17851 | 17871 | 17891 | 17911 | 17931 | 17951 | 17971 | 17991 | 18011 | 18031 | 18051 | 18071 | 18091 | 18111 | 18131 | 18151 | 18171 | 18191 | 18211 | 18231 | 18251 | 18271 | 18291 | 18311 | 18331 | 18351 | 18371 | 18391 | 18411 | 18431 | 18451 | 18471 | 18491 | 18511 | 18531 | 18551 | 18571 | 18591 | 18611 | 18631 | 18651 | 18671 | 18691 | 18711 | 18731 | 18751 | 18771 | 18791 | 18811 | 18831 | 18851 | 18871 | 18891 | 18911 | 18931 | 18951 | 18971 | 18991 | 19011 | 19031 | 19051 | 19071 | 19091 | 19111 | 19131 | 19151 | 19171 | 19191 | 19211 | 19231 | 19251 | 19271 | 19291 | 19311 | 19331 | 19351 | 19371 | 19391 | 19411 | 19431 | 19451 | 19471 | 19491 | 19511 | 19531 | 19551 | 19571 | 19591 | 19611 | 19631 | 19651 | 19671 | 19691 | 19711 | 19731 | 19751 | 19771 | 19791 | 19811 | 19831 | 19851 | 19871 | 19891 | 19911 | 19931 | 19951 | 19971 | 19991 | 20011 | 20031 | 20051 | 20071 | 20091 |
|----------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| RADIAL 17. FT. | 50 | 71 | 91 | 111 | 131 | 151 | 171 | 191 | 211 | 231 | 251 | 271 | 291 | 311 | 331 | 351 | 371 | 391 | 411 | 431 | 451 | 471 | 491 | 511 | 531 | 551 | 571 | 591 | 611 | 631 | 651 | 671 | 691 | 711 | 731 | 751 | 771 | 791 | 811 | 831 | 851 | 871 | 891 | 911 | 931 | 951 | 971 | 991 | 1011 | 1031 | 1051 | 1071 | 1091 | 1111 | 1131 | 1151 | 1171 | 1191 | 1211 | 1231 | 1251 | 1271 | 1291 | 1311 | 1331 | 1351 | 1371 | 1391 | 1411 | 1431 | 1451 | 1471 | 1491 | 1511 | 1531 | 1551 | 1571 | 1591 | 1611 | 1631 | 1651 | 1671 | 1691 | 1711 | 1731 | 1751 | 1771 | 1791 | 1811 | 1831 | 1851 | 1871 | 1891 | 1911 | 1931 | 1951 | 1971 | 1991 | 2011 | 2031 | 2051 | 2071 | 2091 | 2111 | 2131 | 2151 | 2171 | 2191 | 2211 | 2231 | 2251 | 2271 | 2291 | 2311 | 2331 | 2351 | 2371 | 2391 | 2411 | 2431 | 2451 | 2471 | 2491 | 2511 | 2531 | 2551 | 2571 | 2591 | 2611 | 2631 | 2651 | 2671 | 2691 | 2711 | 2731 | 2751 | 2771 | 2791 | 2811 | 2831 | 2851 | 2871 | 2891 | 2911 | 2931 | 2951 | 2971 | 2991 | 3011 | 3031 | 3051 | 3071 | 3091 | 3111 | 3131 | 3151 | 3171 | 3191 | 3211 | 3231 | 3251 | 3271 | 3291 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

|                     | 100   | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180  | 190  | 200  |
|---------------------|-------|------|------|------|------|------|------|------|------|------|------|
| SIZE LINE 200. FT.  | 51.5  | 53.1 | 61.3 | 61.0 | 52.9 | 56.3 | 49.0 | 47.8 | 49.7 | 47.6 |      |
| VEHICLE R-5         | 124   | 47.7 | 45.4 | 46.4 | 45.5 | 45.7 | 44.4 | 47.7 | 45.4 | 44.9 |      |
| CONFIG 75-9         | 160   | 47.8 | 47.7 | 44.6 | 44.3 | 41.3 | 45.7 | 46.5 | 47.1 | 46.2 | 44.7 |
| LCC SCHENECTADY     | 200   | 47.9 | 47.8 | 44.3 | 45.5 | 46.9 | 47.3 | 44.2 | 44.4 | 48.0 | 46.2 |
| DATE 1/23/75        | 270   | 41.7 | 47.2 | 47.7 | 47.5 | 49.1 | 47.7 | 49.4 | 47.6 | 44.0 | 44.0 |
| RCV 62/5            | 315   | 46.3 | 47.4 | 47.4 | 47.4 | 44.3 | 44.1 | 44.2 | 47.5 | 46.3 | 43.1 |
| TARE                | 450   | 47.3 | 45.3 | 46.3 | 46.5 | 47.7 | 47.8 | 44.1 | 46.6 | 45.1 | 42.1 |
| GAT 33-2 HG         | 510   | 41.2 | 43.5 | 45.9 | 45.0 | 47.4 | 47.2 | 44.3 | 47.0 | 45.7 | 41.5 |
| (1957. 1/112)       | 630   | 47.2 | 46.1 | 47.1 | 49.3 | 51.3 | 51.6 | 51.4 | 50.3 | 48.0 | 41.6 |
| TAMB 42. DEG F      | 500   | 41.5 | 45.2 | 47.7 | 47.5 | 50.4 | 51.3 | 50.7 | 51.2 | 47.1 | 40.3 |
| (273. DEG K)        | 1000  | 41.9 | 43.9 | 46.1 | 47.1 | 49.3 | 50.1 | 51.1 | 50.7 | 48.3 | 39.4 |
| TACT 37. DEG F      | 1250  | 43.1 | 45.7 | 47.1 | 46.4 | 50.1 | 52.2 | 54.7 | 54.1 | 51.4 | 41.5 |
| (276. DEG K)        | 1500  | 39.7 | 41.8 | 43.7 | 47.1 | 47.3 | 47.5 | 49.7 | 46.3 | 46.6 | 36.9 |
| MACT 4.35 GPM       | 2000  | 37.7 | 47.4 | 42.5 | 44.0 | 45.1 | 45.3 | 44.7 | 44.6 | 42.3 | 34.4 |
| (130435 KG/HR)      | 2500  | 37.4 | 41.4 | 44.4 | 45.5 | 46.9 | 46.3 | 46.5 | 46.6 | 45.5 | 34.7 |
| NFA 5476. RPM       | 3100  | 34.7 | 34.9 | 41.2 | 47.1 | 45.2 | 44.4 | 44.0 | 47.0 | 43.2 | 32.0 |
| (573. RAD/SEC)      | 4000  | 37.2 | 39.9 | 42.0 | 44.9 | 45.7 | 45.6 | 47.9 | 49.1 | 45.9 | 33.6 |
| NFY 5568. RPM       | 5000  | 36.4 | 38.3 | 41.7 | 47.1 | 45.7 | 47.7 | 49.3 | 48.5 | 45.5 | 33.4 |
| (593. RAD/SEC)      | 6300  | 35.4 | 41.5 | 43.9 | 45.4 | 47.2 | 51.2 | 53.3 | 52.2 | 46.5 | 33.9 |
| NFD 6823. RPM       | 8000  | 37.9 | 2.0  | 45.3 | 47.7 | 51.3 | 52.3 | 53.5 | 52.4 | 47.0 | 32.9 |
| (924. RAD/SEC)      | 10000 | 46.5 | 52.9 | 54.1 | 57.3 | 59.6 | 57.8 | 58.4 | 57.6 | 47.6 | 34.0 |
| NO. OF PLACES 15    | 12500 | 41.2 | 51.0 | 57.0 | 57.5 | 59.8 | 58.0 | 57.1 | 55.8 | 44.4 | 28.9 |
| FAN TIP SPEED 16000 | 26000 | 32.4 | 37.1 | 42.8 | 47.1 | 49.3 | 49.7 | 49.7 | 46.0 | 34.2 | 15.0 |
| 478. FT/SEC         | 25000 | 23.5 | 28.0 | 33.9 | 37.5 | 40.4 | 42.1 | 41.9 | 39.3 | 29.2 | 1.6  |
|                     | 25000 | 13.5 | 19.1 | 23.7 | 27.2 | 30.0 | 30.5 | 29.4 | 25.5 | 9.0  |      |
|                     | 31500 | 3.5  | 6.6  | 12.5 | 14.6 | 19.3 | 14.6 | 16.1 | 9.7  |      |      |
|                     | 40000 |      |      |      |      | 0.3  |      |      |      |      |      |
|                     | 50000 |      |      |      |      |      |      |      |      |      |      |
|                     | 63000 |      |      |      |      |      |      |      |      |      |      |
|                     | 80000 |      |      |      |      |      |      |      |      |      |      |
| OVERALL CALCULATED  | 53.7  | 62.2 | 65.0 | 64.7 | 66.1 | 65.2 | 65.2 | 64.4 | 60.3 | 54.9 |      |
| PNTR                | 65.5  | 69.2 | 72.6 | 73.9 | 74.6 | 74.5 | 75.5 | 74.9 | 71.0 | 61.5 |      |