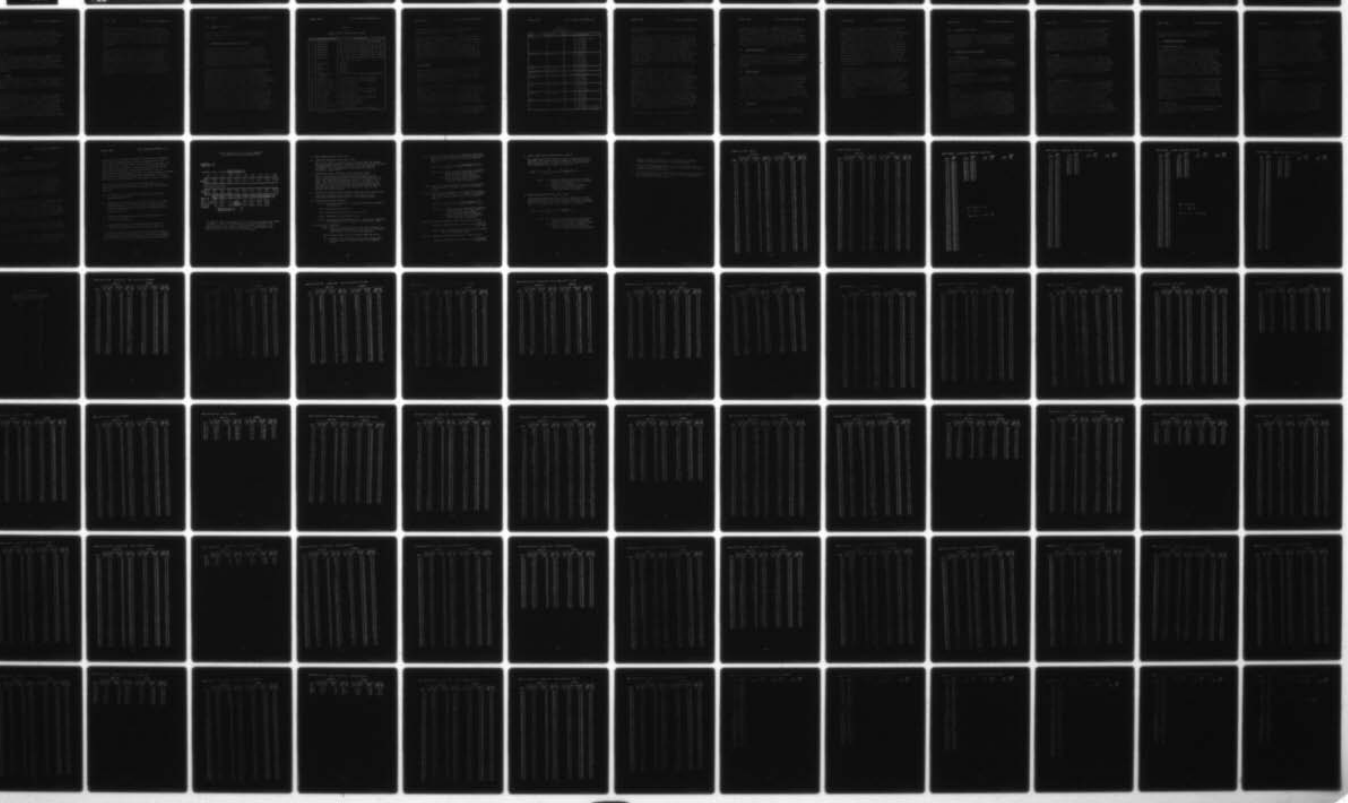
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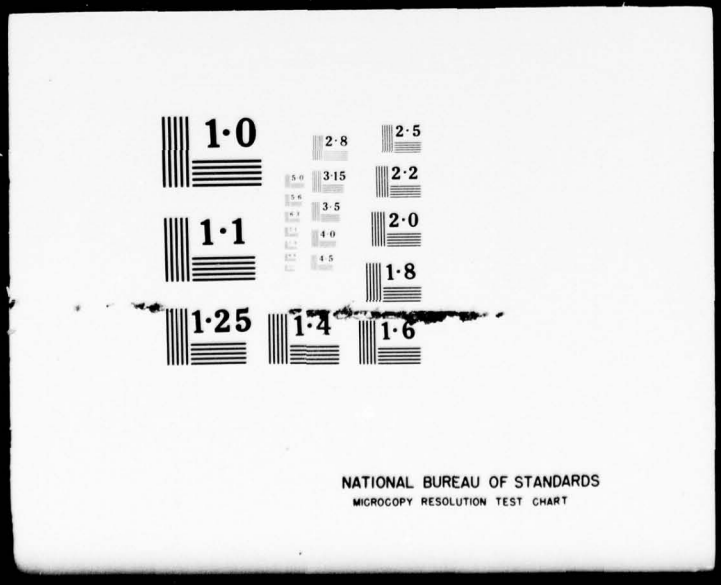
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Report 3425

Project 09705
Prepared under FAA Contract WI-77-3683-1

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# PHYSICAL ANALYSIS OF THE IMPULSIVE ASPECTS OF HELICOPTER NOISE

William J. Galloway

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April 1977

Submitted to:

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16. Abstract

An evaluation is made of several helicopter flyover noise calculation schemes intended to describe signal impulsive character. These schemes were proposed by ICAO member organizations. Data are presented for various recorded flyovers and for simulations of helicopter flyovers.

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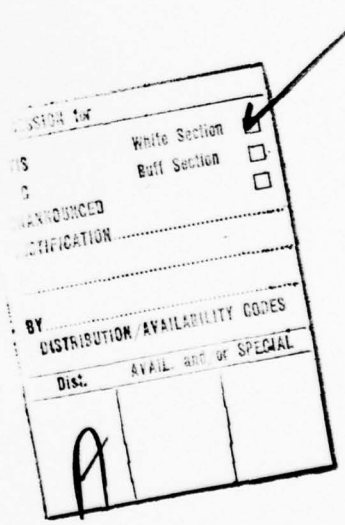
# PHYSICAL ANALYSIS OF THE IMPULSIVE ASPECTS OF HELICOPTER NOISE

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Submitted to:

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800 Independence Avenue, S.W.
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# PHYSICAL ANALYSIS OF THE IMPULSIVE ASPECTS OF HELICOPTER NOISE

## 1.0 INTRODUCTION

Assessment of the impulsive nature of helicopter noise produced during "blade slap" is a primary concern in national and international working groups that are developing procedures for helicopter noise certification. The assessment procedure involves two separate activities. First, investigation of the physical analysis of helicopter noise signatures that will yield appropriate descriptions of the degree of impulsiveness contained in the signals. Second, correlation between impulsiveness measures and psychoacoustic data on the response of people to impulsive noise. This report describes an evaluation of several proposed measures for describing the physical attributes of noise signals, addressing the first part of the problem.

A number of methods for analyzing helicopter noise signals have been proposed for describing impulsiveness. Working Group B of ICAO's Committee on Aircraft Noise (CAN-WG B) has requested that the appropriate ISO working group, ISO/TC 43/SC 1/WG 2, "Noise from Aircraft," assess the various proposals and provide a recommendation to WG B for a specific proposal to be used in the specification of certification procedures. In November 1976 ISO's WG 2 defined a program to evaluate four procedures from which a specific proposal was to be derived. This program consists of analyses to be performed

in France, the United Kingdom, and the USA on signals used in various psychoacoustical experiments, and other signals where possible, to examine the merit of different proposals.

An interim report of progress was provided at a WG 2 meeting on 9-10 March 1977. At this meeting it was concluded that of the four proposals advanced in November, only one, the UK-NPL approach, should be pursued further, along with an additional method proposed by the USA.

In this report we describe analyses made in the USA on several groups of noise signatures--signals used by MAN-Acoustics and Noise Inc. (MAN), a series of helicopter noise signals obtained by FAA during extensive tests at Dulles and Langley, and several other signals of interest. As a result of the March ISO meeting not all signals have been analyzed with all five methods, although all have been analyzed with the surviving two. Of the methods dropped in March, analyses described herein fully support the need not to pursue these procedures any further.

The data summarized in this report represent 338 different analyses of 77 different real and simulated helicopter noise signals. Analyses of white noise and A-weighted white noise, using the different procedures, are included for reference.

## 2.0 PROPOSED MEASURES OF IMPULSIVENESS

Five possible measures of impulsiveness have been investigated, two proposed by the UK, one by France, one by South Africa, and one by the USA. First, the general principles of each method are described, then the instrumentation configurations used in our analyses of the different measures are discussed.

### 2.1 General Descriptions

#### *2.1.1 South Africa*

A value, $\Delta_{SA}$, is obtained by subtracting the time integral of A-weighted sound pressure level obtained with the "slow" averaging time of a precision sound level meter (SLM) from the time integral of A-weighted sound pressure level obtained with the "impulse" averaging characteristic of an impulse SLM. The resulting value of $\Delta_{SA}$ is proposed to be correlated with subjective data.

#### *2.1.2 Westland Helicopter*

The noise signal is passed in parallel through two systems. The first system consists of an octave band centered at 250 Hz, followed by a peak detector (Westland calls for a 200 μs rise time). The second system consists of A-weighting the signal, then determining its rms value with a "slow" SLM characteristic. Output from both systems are plotted on a graphic level recorder (GLR) and the "eyeball" average peak value, $\overline{L}_p$, and "eyeball" average rms value, $\overline{L}_A$, obtained. The correction, $\Delta_{WH}$, is the decibel difference between the two levels. This value is proposed to be used to derive a transfer function from the subjective data for a correction to EPNL.

*2.1.3 National Physical Laboratory (NPL)*

The noise signal is A-weighted (without detection), then digitized at a sampling rate of 20 kHz. Each 0.5s interval of the signal is further subdivided into n periods, each of duration $\tau$. For each j-th period of the n periods, a quantity f(j) is computed as

$$f(j) = \frac{1}{M} \sum_{i-1}^{m} V_i^2$$

The impulsiveness factor I is then obtained, for each 0.5s interval, from

$$I = \sum_{j=1}^{n} \left[ \frac{f(j) - s}{s} \right]^2$$

In the original NPL description, $\tau$ was set equal to 10 ms.

The quantity 10 log I = x, is used with a transfer function to obtain an impulse correction, $\Delta_I$, that is proposed as an addition to PNLT values, at 0.5s intervals, before calculating EPNL. The function advanced for trial is

$$\Delta = k\ (x - x_o) \quad \text{decibels}$$

where x is 10 log I for the signal, $x_o$ is 10 log I for A-weighted white noise, k is approximately 0.6, $\Delta$ is limited to a maximum of 6 dB, and $\Delta$ is zero for $x < x_o$.

*2.1.4 France*

The noise signal is passed through a 2000 Hz lowpass filter, without a detector, then digitized at a sampling rate of 5000 Hz. A quantity, CI, is computed from the N samples of $V_i$ in 0.5s as

$$CI = \frac{\frac{1}{N}\sum_{i=1}^{N} V_i^4}{\left[\frac{1}{N}\sum_{i=1}^{N} V_i^2\right]^2}$$

This quantity is used to derive a correction factor, $\Delta_F$, from the relation

$$\Delta_F = 1.14(CI - 3)$$

It is proposed that $\Delta_F$ be added to the PNLT values, in each 0.5s interval, before computing EPNL.

*2.1.5 USA*

It has been suggested that, if the purpose in the physical analysis is to determine a quantity related to the crest factor of the signal, a simple direct way of accomplishing this is to measure the peak A-weighted sound pressure level, in each 0.5s interval, as compared to the A-weighted rms level in the same time interval. The difference between the two levels is the A-weighted average crest factor in each 0.5s interval. Recognizing that this value is approximately 12 dB for A-weighted white noise, and typically 12 $\pm$ 1 dB for conventional aircraft and helicopters without blade slap, values above 12 dB indicate the degree of impulsiveness of discrete impulses superposed on general noise backgrounds. The use of this measure should be explored in assessing psychoacoustical results.

## 2.2 Instrumentation for Analysis

### 2.2.1 *General*

All signals used in the analyses reported here were made available to us on 1/4 inch magnetic tape. All data were played back from a Nagra III recorder into the various analysis systems described below. Level equalization was provided in one-third octave bands to account for record-playback response characteristics on all but the MAN and Boeing Vertol signals for which calibration recordings were not provided.

In addition to the impulsiveness analyses, one-third octave frequency analyses, in 0.5s intervals, were made of each signal in order to compute PNL, PNLT, EPNL, and various A-weighted sound level measures. These analyses were made with a Hewlett-Packard Model 8054A real time analyzer, under control of a Digital Equipment Corp. PDP-8 computer. This system meets the requirements of FAR Part 36, and the analysis system and computer programs have been approved by FAA for noise certification purposes.

Metal foil sensors were attached to the tape recordings to establish the beginning and end of the analysis of each signal. The sensors trigger the start and stop of the analysis system so that the individual 0.5s intervals reported for each analysis are always the same time intervals of the signal, the timing being controlled by a crystal clock and the PDP-8.

### 2.2.2 *South Africa*

Signals were passed directly from the tape recorder output into

a Bruel & Kjaer (B&K) Type 2209 impulse precision sound level meter (SLM), with the d.c. output of the SLM fed into a B&K Type 2305 level recorder. The frequency response of the SLM on A-weighting was checked and found to be within 0.1 dB of the design center response specified in the December 1976 draft IEC specification for Type 0 precision SLM. Detector averaging times for "slow" and "impulse" were determined to be well within the tolerances specified for Type 0 instruments. Level recorder settings were those recommended in the 2209 applications manual, with a lower limiting frequency of 50 Hz, writing speed of 250 mm/s, and a paper speed of 0.3 mm/s.

Successive passes of the signal were made to provide A-weighted sound level records of each signal with the "impulse" and "slow" detection features of the SLM. The time pattern of the signal for the levels within 10 dB of the maximum level for each trace was digitized with a Grafacon graphical digitizer, the values obtained being stored in the memory of the PDP-8. An existing computer program was used to compute the time integral of the antilog of A-weighted sound level, from which the sound exposure level of the signal is computed. The South African correction is the difference in decibels between the sound exposure levels obtained with the "impulse" and "slow" detector characteristics.

### 2.2.3 *Westland Helicopter*

The analog signal was passed through a 250 Hz octave band, followed by a 2209 SLM set to "peak," followed by the 2305 level recorder, and in parallel through the 2209 SLM set to "slow," followed by a 2305 level recorder. Several helicopter signals were examined with this arrangement, with varying results. If the fundamental of the blade slap frequency lies outside the

250 Hz band the system is obviously of little use. The visual averaging of level recorder traces, while providing a semi-quantitative result, seemed too dependent on the observer to be useful for certification purposes. These results, developed early in the project, were confirmed in the March ISO meeting, so subsequent pursuit of this technique was abandoned.

*2.2.4 NPL*

The tape recorded signal was A-weighted, then digitized with a 12 bit A/D converter at a sampling rate of 5000 Hz. The calculations described in 2.1.3 were performed with the PDP-8 and printed out at each 0.5s interval. Included with the printout is the value of 10 times the logarithm of the impulse coefficient.

*2.2.5 France*

The tape recorded signal was passed through a 2000 Hz low pass filter, then digitized as in 2.2.4. The value of CI was computed by the PDP-8 and printed out for each 0.5s interval, along with the value of $\Delta_F$ computed from $\Delta = 1.14\ (CI - 3)$.

*2.2.6 Peak-to-rms*

The tape recorded signal was passed to two parallel systems, one being the real time analyzer and the other a 2209 SLM, using the "peak hold" feature of the 2209. The d.c. output of the 2209 was passed to the A/D converter of the PDP-8. At the termination of each 0.5s interval, the peak A-weighted sound level of the 2209 was sampled by the PDP-8, then reset to zero. The readout and reset took place during the 30 ms interval during which the real time analyzer output was sampled by the PDP-8.

The rms value of A-weighted sound level was computed by the PDP-8, for each 0.5s interval, from the one-third octave band sound pressure levels generated by the real time analyzer with "slow" detection. The difference in peak and rms values of A-weighted sound level in each 0.5s time interval form the crest factor value for use in evaluation of psychoacoustical experiments.

Prior to performing the analyses reported here the amplitude linearity of the d.c. output of the 2209 was checked with a digital voltmeter. It was found that a definite amplitude non-linearity existed in the 2209 at lower meter values. Checking two other instruments, the identical response was found. Presumably the electrical output of the detector circuit has an amplitude compensation built into offset non-linearity in the meter of the 2209. The detector non-linearity in output was compensated for by programming a correction function in the PDP-8.

## 3.0 SUMMARY OF DATA SETS

Data from five sources have been analyzed with various of the measures described in Section 2. The five data sets are described below.

### 3.1 MAN-Acoustics and Noise Inc. (MAN)

Twenty-four noise samples were used in a psychoacoustical experiment concerned with judgments of human response to simulated and real helicopter noise signatures, as well as conventional jet and propeller aircraft. The study is described in Report FAA-RD-76-116, July 1976. The MAN description of the different signals is shown in Table I, which is a reproduction of Fig. 3-1 of their report.

In the MAN experiments a master tape of the individual signals was used to generate the source data for the experiments. Since each signal was played back to the subjects at five different levels, absolute sound pressure levels were controlled during playback. In order to perform our analyses we arbitrarily specified a reference calibration level to which all sound pressure levels were referred. Thus the levels we report in the appended data set are offset in absolute value from those used in the MAN experiment. Since the level to which the subjects were exposed was monitored by the A-weighted sound level at the listener position, one may adjust the levels we report by shifting all levels by the difference in A-weighted sound level between the data we report and those in the MAN experiment. Note that the results of the South Africa, French, NPL, and peak-to-rms analysis methods are unaffected by the difference

TABLE I

Signals Used in MAN-Acoustics Study

| No. | Flyover/Simulation | Description |
|---|---|---|
| 1 | Simulation | Tail rotor noise with no slap(standard). |
| 2 | Simulation | Tail rotor noise w/light slap at 10 b/s.* |
| 3 | Simulation | Tail rotor noise w/moderate slap at 10b/s. |
| 4 | Simulation | Tail rotor noise w/heavy slap at 10 b/s. |
| 5 | Simulation | Tail rotor noise w/moderate slap at 6 b/s. |
| 6 | Simulation | Tail rotor noise w/moderate slap at 18b/s. |
| 7 | Simulation | Tail rotor noise w/moderate slap at 10b/s. and fast rise time. |
| 8 | Boeing 747 | Takeoff |
| 9 | DC-8 | Takeoff |
| 10 | Boeing 747 | Approach |
| 11 | DC-8 | Approach |
| 12 | Britten-Norman Islander | Takeoff of small commuter reciprocating. |
| 13 | Convair 640 | Takeoff of medium sized turboprop. |
| 14 | Chinook CH 47-A | Level flyover at 500 ft. altitude |
| 15 | Chinook CH 47-A | Routine Approach |
| 16 | Chinook CH 47-A | Routine takeoff |
| 17 | Bell UH-1H (Huey) | Level flyover at 500 ft. altitude. |
| 18 | Kiowa OH-58 | Level flyover at 500 ft. altitude. |
| 19 | Kiowa OH-58 | Routine approach |
| 20 | Sea Knight | Level flyover at 500 ft. altitude. |
| 21 | Sea Knight | Shallow turn operation. |
| 22 | Hughes 300 | Steep turn operation. |
| 23 | Bell UH-1H (Huey) | Routine takeoff |
| 24 | Hughes 300 | Level flyover at 500 ft. altitude. |

*beats per second.

in absolute levels, thus the effect of these methods on describing impulsiveness are also unaffected.

Results of the various analyses are contained in Appendix A. They include the values obtained by the South Africa, French, NPL, and peak-to-rms analyses. Values of PNL, PNLT, overall sound pressure level, A, D, and N weighted sound level, and tone corrections, are also provided, at 0.5s intervals, as well as the one-third octave band sound pressure levels for PNLTM, the maximum levels in bands, EPNL, and sound exposure level (the time integral over the event of A-weighted sound level).

## 3.2 FAA/TSC

A wide variety of noise measurements were obtained by FAA in October 1976 on eight different helicopters. A set of 37 different recordings was selected by FAA from these data for use in the analyses reported herein. A description of the individual events is listed in Table II.

The data samples selected were supplied to us by TSC on a single tape. Calibration levels and a recording of pink noise were provided so that absolute values of sound level could be obtained. Analyses of the signals to provide EPNL, PNLT, A-weighted sound level, and their ancillary measures, were also supplied from the TSC analysis. (In the EPNL analyses no tone correction was applied for frequencies below 500 Hz.)

The results of analyses of these signals using the NPL, French, and A-weighted peak-to-rms methods are provided in Appendix B. The routine analyses of PNLT, EPNL, and various A-weighted

TABLE II

FAA/TSC DATA SET

| MIC | HELICOPTER | RUN NO. | TEST CONDITION |
|---|---|---|---|
| EAST C.L. | CH-47C | 12 | 6° APPROACH |
| | " | 18 | 60 KT LEVEL FLYOVER |
| | " | 20 | 9° APPROACH |
| | " | 23 | 100 KT LEVEL |
| | " | 24 | 141 KT LEVEL |
| | " | 27 | 141 KT LEVEL |
| | " | 28 | 150 KT LEVEL |
| | " | 29 | 150 KT LEVEL |
| | " | 35 | 3° APPROACH |
| EAST C.L. | UHIN (212) | 24 | 6° APPROACH |
| | " | 27 | 9° APPROACH |
| | " | 31 | 60 KT LEVEL |
| | " | 32 | 99 KT LEVEL |
| | " | 36 | 110 KT LEVEL |
| | " | 37 | 114 KT LEVEL |
| | " | 43 | 3° APPROACH |
| EAST C.L. | HUGHES 300C | 34 | 75 mph LEVEL |
| | " | 44 | 6° APPROACH |
| EAST C.L. | BELL 206L | 46 | 6°APPROACH |
| | " | 71 | 130 mph LEVEL |
| EAST C.L. | Bell 47G | 19 | 6° APPROACH |
| | " | 29 | 68 mph LEVEL |
| | " | 30 | 75 mph LEVEL |
| | " | 41 | 9° APPROACH |
| WEST C.L. | HUGHES 500C | 58 | 69 mph LEVEL |
| | " | 65 | 6° APPROACH |
| | " | 109 | 150 mph LEVEL |
| | " | 110 | 130 mph LEVEL |
| WEST C.L. | S-61 (SH-3) | 16 | 9° APPROACH |
| | " | 18 | 60 KT LEVEL |
| | " | 20 | 6° APPROACH |
| | " | 34 | 115 KT LEVEL |
| WEST C.L. | S-64 (CH-54B) | 50 | 60 KT LEVEL |
| | " | 51 | 6° APPROACH |
| | " | 67 | 95 KT LEVEL |
| | " | 74 | 6° APPROACH (w/o TRUCK) |
| | " | 78 | 95 KT LEVEL (w/o TRUCK) |

sound levels, as described in Section 3.1 are also provided in Appendix B.

Note should be made of the difference in time scales between the TSC analyses and those we report. In both data sets the timing of 0.5s intervals is started at an arbitrary point in the time pattern where the signal is at a substantially lower level than 10 dB below the maximum level of the event. Synchronization between the TSC data and our analyses can be made by noting the particular 0.5s time intervals in which the maximum A-weighted sound level (or PNLT) occurs in the two sets of analyses. The difference between these time intervals provides a constant offset between the time scales for the two sets.

For example, consider the data for the CH47C, Run 12. The TSC analysis of levels in 0.5s intervals (Table No. 27) shows that the maximum level occurs for time interval 35, or 17.5s from the start of the analysis). The BBN analysis shows maximum level at the 49.0s interval from start of analysis. Synchronization between the two data sets is obtained by displacing the time scale of one relative to the other by 31.5s. On the other hand, the TSC report of one-third octave sound pressure levels for the time intervals relative to overhead have been re-scaled with the 0 time at the overhead point (Table No. 64). In this case the maximum occurs during the overhead (0.0) time interval. The zero time interval in this table corresponds to the 49.0s time interval in the BBN analysis. Time scale translations between the TSC and BBN analyses are provided in Appendix B.

In comparing data for various 0.5s intervals it should be

recognized that the value of A-weighted sound level in the different intervals relative to the level in the time interval of the maximum level differ between the NPL impulsiveness analysis and the normal FAR 36 analyses because of the shorter averaging time (0.5s) used in the NPL method. Thus the total time interval between the "10 dB down" points in the NPL method is less than in the conventional FAR 36 analysis.

### 3.3 Columbia University

Psychoacoustical experiments with various aircraft noise signals are being conducted at Columbia University by Prof. E. Galanter. Among the signals supplied to us are three helicopter noise signatures. Analyses for these signals are contained in Appendix C.

### 3.4 Boeing-Vertol

During the course of this project we were offered a sample tape for analysis by Boeing-Vertol. The samples consist of flyover noise recordings of an unmodified CH47 Chinook helicopter, the Chinook modified by extending the height of the tail rotor pylon, and finally the Chinook further modified by extending the fuselage distance between rotor centers to eliminate rotor overlap. These modifications are representative of the kind of product improvement possible to lower helicopter noise. Analyses for these signals are provided in Appendix D.

### 3.5 Fuller/NPL

A considerable weight in the British position relative to impulse corrections to EPNL for helicopter signals is based

on a subjective response experiment performed by H. C. Fuller of the National Physical Laboratory in England. [Results reported in two ISO working group papers, ISO/TC43/SC1/WG2(Berry & Robinson 3)-77, November 1976, and ISO/TC43/SC1WG2 (Berry & Robinson-4)-81, February 1977.] These papers report on judgment tests of response to a variety of signals with different impulsiveness simulations. The test signals consisted of 10s samples of first a frequency shaped noise simulating a Wessex helicopter without bladeslap, then the same signal on which a single sine wave pulse, repeated at a repetition rate of 10 Hz, is used to simulate blade slap. Sine pulses with fundamental frequencies of 200, 400, and 800 Hz were used, with each applied at 10 and 20 dB peak SPL above the rms level of the original signal.

The results of the Fuller data were originally reported in A-weighted sound level, with the second paper reporting on the results of the various impulsiveness measures applied to these signals. Since PNLT and peak-to-rms values for these signals were not supplied, we believe it important to obtain such analyses. Consequently, we prepared a tape recording to represent these signals according to the description provided in the original paper. Analyses of these signals are provided in Appendix F. We also supply analyses for the same basic signals with a 30 dB peak SPL level above the rms level of the original signal.

# 4.0 DISCUSSION OF RESULTS

The scope of the effort described in this report did not allow extensive investigation of the results, and in particular did not allow much evaluation of these analyses against psychoacoustical experiments. A number of tentative conclusions can be stated, however.

## 4.1 Comments on Analysis Methods

### *4.1.1 South Africa*

This method is insensitive to the degree of impulsiveness present in the signal and does not appear to be a useful method. This conclusions is completely consistent with that reached by the British and French.

### *4.1.2 Westland Helicopter*

The bandpass filtering of signals to measure peak values is not useful if the impulsiveness is largely due to signals outside the pass band.

### *4.1.3 NPL*

The method proposed does identify impulsive signals. Using a "fast" integration time of 10 ms, as proposed by ISO and as used in the BBN analyses, gives quite different results from those reported by NPL using 1 ms integration for "fast." The 10 ms data provide impulsive coefficents, I, approximately one order of magnitude lower than the 1 ms data, at least for the Fuller/NPL data for which a direct comparison is possible. The 10 ms data are not very sensitive for detecting relatively low peak to rms impulses, although the 1 ms data do seem to do a better job.

Problems of determing threshold values of this impulsiveness coefficient below which no "penalty" is imposed are very dependent on the choice of integration constants. For example, the NPL analysis using 1 ms integration time always yielded a positive value for I when the Fuller data were analyzed. The BBN analysis (10 ms) gave a zero value for I for 10 dB peak-to-rms signals, with positive values only obtained for the 20 and 30 dB peak-to-rms signals.

*4.1.4 French*

Most signals, including white noise, produced a value of C.I. around 3 unless distinct impulses were present. For the more impulsive signals higher values of C.I. were obtained, becoming larger with increase in crest factor. The numerical values of C.I. obtained in the NPL and BBN analyses of the Fuller data were quite close in all but one case, in which they differed by 30%.

*4.1.5 Peak-to-rms A level*

This method is the easiest to implement and clearly identifies the crest factors (CF) for a signal. In examining this method further, however, some standard must be set for establishing the value below which no impulsiveness "penalty" is to be made. In the case of A-weighted white noise, we found the CF for 0.5s intervals of a 20s sample to be 12.1 decibels with a standard deviation of 0.50 decibels. Random noise with variously shaped spectra will yield different values. For example, the Fuller data for helicopter noise without impulses had a CF of 10.7 decibels, with many of the other real flyover signals having comparable values. Clearly a better understanding of the effect of the spectral shape of helicopter noise on CF

must be obtained, since CF theoretically increases with decrease in band width of a gaussian noise signal.

## 4.2 Comments on Data Sets

### *4.2.1 MAN-Acoustics Data*

The different methods to describe impulsiveness gave quite different results of the first seven signals, of which the first is a simulated tail rotor noise spectrum and the following six have impulses superposed on the first signal to simulate different blade slap situations, the NPL method identified only signal No. 4, "heavy blade slap" as having impulses, as did the French method. The French method identified a level of impulsiveness just above "none" for signals 3 and 4 as well. The peak-to-rms method ranked signals 3, 4, and 7 as being substantially more impulsive than the others.

In the flyover signals, the NPL method identified substantial impulsiveness in signals No. 14, 15, 17, 20, 21 and 23, as did the French and peak-to-rms methods. There was a large difference, however, in the degree of impulsiveness assigned to particular 0.5s time intervals by the different methods. Application of any of these methods to complex signals that vary in time will require a substantially more detailed examination than possible here.

### *4.2.2 FAA/TSC Data*

The various methods for describing impulsiveness had the same general characteristics for identifying impulsiveness as described above.

Comparisons between the TSC and BBN analyses of EPNL and related measures are quite good, as summarized in Appendix B. In examining the differences between the two sets of analyses, recall that the TSC analyses differs from the BBN analysis in two specific ways. First, the TSC analysis does not apply tone corrections below 500 Hz, and second, the TSC analysis inserts a constant SPL in those one-third octave frequency bands where signal-to-noise ratio is limited. The BBN analysis includes tone corrections below 500 Hz, and in noise limited bands inserts SPL values that decrease in level with increasing frequency, e.g. the spectrum is "rolled off" at high frequencies. Considering these differences in procedure, the two sets of analyses are remarkably consistent.

### 4.2.3 *Columbia Data*

The three helicopter signals analyzed had no impulsiveness characteristics identified by any of the measures.

### 4.2.4 *Boeing-Vertol*

The three signals provided by Vertol show the results of change in helicopter design to reduce noise. The tape provided to us had a calibration tone, but no further system correction data. Comparison of Vertol values of EPNL and PNLT with the BBN analyses shows a systematic difference of approximately 5 decibels in absolute level, with the Vertol data being higher. This difference does not affect the impulsiveness analyses which are based on relative levels. It is impressive to note that the EPNL for the 347 is not only 14 decibels lower than the parent CH47, but also that the peak-to-rms level is also reduced by up to 3.4 decibels.

4.2.5 *Fuller/NPL*

This data set is of interest for several reasons. Comparison of the NPL and BBN analyses shows the substantial difference in results obtained with 1 ms and 10 ms integration times. Further, the NPL experiment balanced subjective judgments on the basis of maximum A-weighted sound level. The BBN analyses allows the subjective data to be adjusted on the basis of constant PNLT as proposed in ISO, since at constant A-level the values of PNLT are not the same for the different signals.

Analysis of the Fuller data on the basis of the change in PNLT level required to obtain equal judged noisiness between the different signals shows that this offset is approximately, decibel for decibel, equal to the amount in decibels that the A-weighted sound level crest factor exceeds that for the noise alone. That is, when the crest factor is, for example, four decibels greater than that of the signal without impulses, the higher crest factor signal must be four decibels lower in PNLT to be judged equally annoying as the non-impulse case.

The reader is urged not to assume that this result will necessarily be obtained in other cases, or that corrections applied at 0.5s intervals to a complete flyover signal will provide comparable subjective results. Conclusions of this sort can only be reached through a careful, well planned set of psychoacoustical experiments.

# APPENDICES

A number of different analyses are included in the following appendices. In most instances the computer printouts are self-explanatory. A few comments may assist in their interpretation.

The first form of analyses reported lists the results of the NPL impulse analysis (labeled "British" on the printout). The columns in the tables list first the 0.5s time interval from the start of analysis; then the level in decibels of the A-weighted sound level, relative to the maximum value of A-weighted sound level for the signal; the linear value of the impulse coefficient, I; and 10 log I in decibels, as described in Section 2.1.2.

The results of the analyses using the French method are listed on the same printout as the British. In this case the rms value is the unweighted sound level, low passed at 2000 Hz, relative to the maximum value of this rms level for the signal. The impulse coefficient is the linear value "C.I." described in Section 2.1.4 of the report, while the "impulse correction" is 1.14(C.I.-3), as described in Section 2.1.4.

The second printout lists, for each 0.5s time interval, the peak A-weighted sound level during that interval. This value is to be used with the slow rms value of A-weighted sound level to determine crest factors.

The third form of analysis reported is a printout of data from analyses used to determine EPNL. The first part of the data lists, for successive 0.5s time intervals, PNL, pure tone

correction, PNLT, overall (unweighted) sound level, A-weighted sound level, D-weighted sound level, N-weighted sound level (D + 7 dB), and the band number in which the tone appeared that caused the tone correction. Following these data are summary data reporting one-third octave sound pressure levels, the time interval in which maximum values of various measures occurred, and various duration factors and time integrations to obtain EPNL and SEL. An explanation of the summary tables is attached.

All of the above data are provided for each data set. In addition, several other analyses are summarized for different data sets:

a) The results of the South Africa method are listed for the MAN-Acoustics data.

b) Comparisons between various measures obtained in the TSC and BBN analyses of the FAA (TSC data, along with time interval displacements to allow time synchronization of the two data sets.

c) Comparisons between Boeing Vertol and BBN analyses of Vertol noise signals.

d) Comparisons between NPL and BBN analyses of various impulsiveness measured for the Fuller/NPL signal set.

As an initial frame of reference for the different measures of impulsiveness we include samples of random noise processed with the British, French, and A-weighted peak-to-rms methods.

SAMPLE TABULATION OF NOISE LEVEL MEASURES
FOR AIRCRAFT FLYOVER NOISE ANALYSES

RUN #1 — (1)

MAXIMUM VALUES IN BANDS, PNLC = 113.0 — (2)

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 78.7 | 78.4 | 76.9 | 77.7 | 78.0 | 81.4 | 79.6 | 77.7 | 78.1 | 77.3 |
| 77.8 | 76.9 | 76.3 | 80.6 | 81.8 | 81.2 | 85.3 | 96.2 | 88.0 | 79.9 |
| 83.8 | 75.1 | 71.3 | 62.1 | | | | | | |

(3)

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 74.9 | 72.5 | 71.8 | 75.8 | 77.2 | 80.9 | 77.7 | 77.7 | 78.1 | 76.7 |
| 77.8 | 76.7 | 75.9 | 80.2 | 81.8 | 81.2 | 85.3 | 96.2 | 82.8 | 79.6 |
| 83.6 | 74.4 | 70.8 | 62.0 | | | | | | |

(4)

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 8.5 | 4.6 | | | | | | |
| PNL | 8.0 | 112.6 | 9.0 | 118.2 | 14.0 | 118.5 | 110.4 | 109.3 |
| PNLT | 8.0 | 116.5 | 3.5 | 122.1 | 13.5 | 122.4 | 114.0 | 113.0 |
| A-LEV | 8.0 | 98.6 | 8.5 | 104.1 | 14.0 | 104.4 | 96.1 | 95.3 |
| N-LEV | 8.0 | 114.3 | 8.0 | 119.6 | 13.5 | 120.0 | 111.6 | 110.8 |

(5) (6) (7)

EPNL = 112.1 — (8)

The digital computer program for aircraft flyover analyses calculates a number of noise level parameters for several different noise level measures (e.g. A-level, perceived noise level, etc.). A sample of the output format is shown above. The numbered items are discussed in detail on the following pages.

1) TEXT IDENTIFICATION OF THE DATA

2) COMPOSITE PERCEIVED NOISE LEVEL (PNLC)

This is the perceived noise level calculated from the maximum RMS sound pressure levels occurring in each one-third octave band (irrespective of the point in time at which the maximums occurred). The spectrum used to calculate this value is detailed as Item 3 below.

3) MAXIMUM ONE-THIRD OCTAVE BAND SOUND PRESSURE LEVELS

This is the spectrum of maximum RMS sound pressure levels which occurred during the event. Note that all bands may not reach their maximum sound pressure level at the same point in time. The bands listed range from 50 Hz to 10,000 Hz. The first line of levels includes the 50 Hz band through the 400 Hz band; the second line includes the 500 Hz band through the 4000 Hz band; and the third line includes the 5000 Hz band through the 10,000 Hz band.

4) SPECTRUM FOR MAXIMUM TONE-CORRECTED PERCEIVED NOISE LEVEL (PNLT)

This is the spectrum at the point in time when the tone-corrected perceived noise level is at its maximum value.

5) NOISE LEVEL MEASURES ANALYZED

P.T. = pure tone correction for discrete frequency components (FAA method)[1].

PNL = perceived noise level[2].

PNLT = tone-corrected perceived noise level[1].

A-LEV = A-weighted sound pressure level.

N-LEV = N-weighted sound pressure level. (Note that D-weighted sound pressure level is equal to N-LEV minus 7 dB.)

6) NOISE LEVEL PARAMETERS

TIME = time (in seconds) at which noise level reached its maximum value (time T = 0 is an arbitrary reference point common to all noise level measures).

MAX = maximum noise level occurring during the event.

D10 = duration of that period of the event during which the noise level is within 10 dB of its maximum value.

I-10 = noise level integrated (i.e. summed on an energy basis) over that portion of the event during which the noise level is within 10 dB of its maximum value.

$$\text{I-10} = 10 \log_{10} \sum_{t_1}^{t_2} \text{antilog} \left[ \frac{\text{noise level (t)}}{10} \right] - 3$$

where: $t_1$ = point in time, preceding the maximum noise level, at which the level is 10 dB less than the maximum.
$t_2$ = point in time, after the maximum noise level, at which the level is 10 dB less than the maximum.

D20 = duration of that period of the event during which the noise level is within 20 dB of its maximum value.

I-20 = noise level integrated (i.e. summed on an energy basis) over that period of the event during which the noise level is within 20 dB of its maximum value.

$$\text{I-20} = 10 \log_{10} \sum_{t_1}^{t_2} \text{antilog} \left[ \frac{\text{noise level (t)}}{10} \right] - 3$$

where: $t_1$ = point in time, preceding the maximum noise level, at which the level is 20 dB less than the maximum.
$t_2$ = point in time, after the maximum noise level, at which the level is 20 dB less than the maximum.

D/15 + M = duration corrected noise level (based on D10).

$$\text{duration corrected level} = \text{MAX} + 10 \log_{10} \left[ \frac{\text{D10}}{15 \text{ sec}} \right]$$

where: MAX = maximum noise level during the event,
D10 = (as described above)

D/30 + M = duration corrected noise level (based on D20).

$$\text{duration corrected level} = \text{MAX} + 10 \log_{10} \left[ \frac{\text{D20}}{30 \text{ sec}} \right]$$

7) SINGLE EVENT NOISE EXPOSURE LEVEL (SENEL)[3]

The single event noise exposure level is defined as the A-weighted sound pressure level integrated over the period of time the noise level is within 10 dB of its maximum value. The normalizing time constant is 1 second.

$$SENEL = 10 \log_{10} \sum_{t_1}^{t_2} \text{antilog} \left[ \frac{\text{A-level (t)}}{10} \right] - 3$$

where: $t_1$ = point in time, preceding the maximum A-level, at which the level is 10 dBA less than the maximum.
$t_2$ = point in time, after the maximum A-level, at which the level is 10 dBA less than the maximum.

8) EFFECTIVE PERCEIVED NOISE LEVEL (EPNL)[1]

The effective perceived noise level is defined as the tone corrected perceived noise level (PNLT) integrated over the period of time the noise level is within 10 dB of its maximum value. The normalizing time constant is 10 seconds.

$$EPNL = 10 \log_{10} \sum_{t_1}^{t_2} \text{antilog} \left[ \frac{\text{PNLT (t)}}{10} \right] - 13$$

where: $t_1$ = point in time, preceding the maximum perceived noise level, at which the level is 10 PNdB less than the maximum.
$t_2$ = point in time, after the maximum perceived noise level, at which the level is 10 PNdB less than the maximum.

## REFERENCES


1) Sperry, William C., "Aircraft Noise Evaluation," Federal Aviation Administration Report FAA-NO-68-34, 1968.

2) Society of Automotive Engineers, Inc., "Definitions and Procedures for Computing the Perceived Noise Level of Aircraft Noise," ARP 865A, Revised 1969.

3) California Department of Aeronautics, "Proposed Noise Standards for California Airports," First Draft Revision Subsequent to Public Hearings, October 26, 1970.

A SAMPLE OF WHITE NOISE

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -0.5 | .00 | -26.4 | -0.4 | 2.90 | 0.0 |
| 1.0 | -0.2 | .00 | -26.3 | -0.3 | 3.26 | 0.3 |
| 1.5 | -0.3 | .00 | -28.9 | -0.4 | 3.17 | 0.2 |
| 2.0 | -0.4 | .00 | -28.7 | -0.4 | 2.93 | 0.0 |
| 2.5 | -0.3 | .00 | -28.7 | -0.4 | 3.00 | 0.0 |
| 3.0 | -0.3 | .00 | -25.4 | -0.3 | 3.25 | 0.3 |
| 3.5 | -0.3 | .00 | -25.5 | 0.0 | 3.03 | 0.0 |
| 4.0 | -0.4 | .00 | -26.5 | -0.4 | 3.12 | 0.1 |
| 4.5 | -0.2 | .00 | -26.6 | -0.5 | 3.05 | 0.1 |
| 5.0 | -0.5 | .00 | -25.8 | -0.2 | 3.07 | 0.1 |
| 5.5 | -0.4 | .00 | -24.3 | -0.2 | 3.02 | 0.0 |
| 6.0 | -0.4 | .00 | -29.4 | -0.3 | 2.92 | 0.0 |
| 6.5 | -0.2 | .00 | -25.9 | -0.3 | 3.09 | 0.1 |
| 7.0 | -0.2 | .00 | -25.9 | -0.3 | 3.10 | 0.1 |
| 7.5 | -0.5 | .00 | -29.0 | -0.6 | 3.04 | 0.0 |
| 8.0 | -0.2 | .00 | -25.8 | -0.2 | 3.16 | 0.2 |
| 8.5 | -0.5 | .00 | -25.8 | -0.4 | 2.88 | 0.0 |
| 9.0 | -0.4 | .00 | -28.3 | -0.4 | 3.03 | 0.0 |
| 9.5 | 0.0 | .00 | -26.3 | 0.0 | 3.13 | 0.2 |
| 10.0 | -0.4 | .00 | -26.3 | -0.5 | 3.08 | 0.1 |
| 10.5 | 0.0 | .00 | -25.7 | -0.4 | 2.93 | 0.0 |
| 11.0 | -0.2 | .00 | -26.7 | -0.7 | 3.08 | 0.1 |
| 11.5 | -0.3 | .00 | -26.2 | -0.3 | 2.90 | 0.0 |
| 12.0 | 0.0 | .00 | -25.9 | -0.6 | 3.10 | 0.1 |
| 12.5 | -0.3 | .00 | -27.6 | -0.2 | 3.06 | 0.1 |
| 13.0 | -0.3 | .00 | -24.4 | -0.3 | 2.99 | 0.0 |
| 13.5 | -0.6 | .00 | -25.5 | -0.6 | 3.13 | 0.1 |
| 14.0 | -0.4 | .00 | -29.3 | -0.3 | 2.98 | 0.0 |
| 14.5 | -0.2 | .00 | -26.7 | -0.4 | 2.94 | 0.0 |
| 15.0 | -0.5 | .00 | -28.3 | -0.3 | 3.00 | 0.0 |
| 15.5 | -0.4 | .00 | -24.4 | -0.3 | 2.94 | 0.0 |
| 16.0 | 0.0 | .00 | -25.7 | -0.2 | 2.95 | 0.0 |
| 16.5 | -0.2 | .00 | -24.7 | -0.4 | 3.07 | 0.1 |
| 17.0 | 0.0 | .00 | -26.5 | -0.3 | 3.19 | 0.2 |
| 17.5 | -0.4 | .00 | -25.1 | -0.5 | 3.01 | 0.0 |
| 18.0 | -0.2 | .00 | -28.9 | -0.2 | 2.95 | 0.0 |
| 18.5 | -0.4 | .00 | -25.7 | -0.4 | 3.06 | 0.1 |
| 19.0 | -0.3 | .00 | -23.2 | -0.3 | 3.02 | 0.0 |
| 19.5 | -0.2 | .00 | -27.5 | -0.2 | 3.07 | 0.1 |
| 20.0 | -0.3 | .00 | -25.8 | -0.4 | 2.93 | 0.0 |
| 20.5 | -0.2 | .00 | -26.7 | -0.5 | 2.94 | 0.0 |
| 21.0 | -0.5 | .00 | -26.2 | -0.3 | 3.02 | 0.0 |
| 21.5 | 0.0 | .00 | -26.7 | -0.4 | 2.95 | 0.0 |
| 22.0 | 0.0 | .00 | -25.1 | -0.4 | 2.98 | 0.0 |
| 22.5 | -0.4 | .00 | -26.1 | -0.4 | 2.99 | 0.0 |
| 23.0 | -0.5 | .00 | -26.2 | -0.2 | 3.13 | 0.2 |
| 23.5 | -0.3 | .00 | -26.6 | -0.6 | 2.98 | 0.0 |
| 24.0 | -0.4 | .00 | -27.9 | -0.5 | 3.09 | 0.1 |
| 24.5 | -0.5 | .00 | -28.2 | -0.3 | 3.02 | 0.0 |
| 25.0 | -0.4 | .00 | -25.5 | 0.0 | 3.12 | 0.1 |

A SAMPLE OF WHITE NOISE

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -0.4 | .00 | -22.3 | -0.6 | 2.98 | 0.0 |
| 26.0 | -0.5 | .00 | -29.0 | -0.3 | 3.08 | 0.1 |
| 26.5 | -0.3 | .00 | -25.8 | -0.3 | 2.95 | 0.0 |
| 27.0 | -0.3 | .00 | -23.7 | -0.5 | 3.25 | 0.3 |
| 27.5 | 0.0 | .00 | -23.0 | -0.4 | 3.23 | 0.3 |
| 28.0 | -0.2 | .00 | -29.0 | -0.4 | 3.36 | 0.4 |
| 28.5 | -0.4 | .00 | -29.8 | -0.4 | 3.12 | 0.1 |
| 29.0 | 0.0 | .00 | -27.8 | -0.3 | 3.08 | 0.1 |
| 29.5 | -0.3 | .00 | -26.5 | -0.2 | 2.97 | 0.0 |
| 30.0 | -0.2 | .00 | -26.8 | -0.4 | 3.13 | 0.2 |
| 30.5 | -0.7 | .00 | -25.1 | -0.4 | 3.01 | 0.0 |
| 31.0 | -0.3 | .00 | -27.4 | 0.0 | 3.01 | 0.0 |
| 31.5 | -0.6 | .00 | -26.7 | -0.6 | 3.16 | 0.2 |
| 32.0 | -0.5 | .00 | -26.7 | -0.5 | 3.06 | 0.1 |
| 32.5 | -0.5 | .00 | -26.6 | 0.0 | 3.17 | 0.2 |
| 33.0 | -0.2 | .00 | -23.9 | -0.5 | 3.08 | 0.1 |
| 33.5 | -0.3 | .00 | -27.5 | -0.4 | 3.21 | 0.2 |
| 34.0 | -0.2 | .00 | -24.4 | -0.6 | 2.96 | 0.0 |
| 34.5 | -0.5 | .00 | -26.3 | -0.2 | 3.14 | 0.2 |
| 35.0 | -0.4 | .00 | -26.7 | -0.3 | 2.99 | 0.0 |
| 35.5 | -0.4 | .00 | -26.9 | -0.5 | 2.92 | 0.0 |
| 36.0 | -0.3 | .00 | -26.5 | -0.2 | 3.02 | 0.0 |
| 36.5 | -0.3 | .00 | -26.9 | -0.5 | 2.97 | 0.0 |
| 37.0 | -0.4 | .00 | -28.1 | -0.5 | 2.90 | 0.0 |
| 37.5 | -0.5 | .00 | -29.1 | -0.7 | 3.08 | 0.1 |
| 38.0 | 0.0 | .00 | -29.6 | -0.6 | 3.23 | 0.3 |
| 38.5 | -0.2 | .00 | -26.0 | -0.2 | 2.92 | 0.0 |
| 39.0 | -0.3 | .00 | -25.2 | -0.5 | 3.23 | 0.3 |
| 39.5 | -0.2 | .00 | -24.1 | -0.4 | 3.12 | 0.1 |
| 40.0 | -0.5 | .00 | -25.7 | -0.3 | 3.13 | 0.1 |
| 40.5 | -0.4 | .00 | -25.4 | -0.4 | 3.24 | 0.3 |
| 41.0 | 0.0 | .00 | -25.1 | -0.3 | 2.99 | 0.0 |
| 41.5 | -0.4 | .00 | -30.0 | -0.2 | 3.03 | 0.0 |
| 42.0 | -0.2 | .00 | -27.3 | -0.5 | 3.02 | 0.0 |
| 42.5 | -0.5 | .00 | -25.7 | -0.4 | 3.18 | 0.2 |
| 43.0 | -0.4 | .00 | -28.1 | -0.4 | 3.08 | 0.1 |
| 43.5 | -0.4 | .00 | -26.3 | -0.5 | 3.03 | 0.0 |
| 44.0 | -0.5 | .00 | -24.5 | -0.2 | 3.10 | 0.1 |
| 44.5 | -0.5 | .00 | -26.5 | -0.3 | 3.14 | 0.2 |
| 45.0 | -0.3 | .00 | -27.1 | -0.6 | 3.19 | 0.2 |
| 45.5 | -0.4 | .00 | -25.9 | 0.0 | 3.08 | 0.1 |
| 46.0 | -0.3 | .00 | -23.8 | -0.6 | 2.86 | -0.2 |
| 46.5 | -0.2 | .00 | -28.6 | -0.5 | 2.95 | 0.0 |
| 47.0 | -0.3 | .00 | -24.4 | -0.4 | 3.09 | 0.1 |
| 47.5 | -0.6 | .00 | -27.7 | -0.6 | 2.89 | 0.0 |
| 48.0 | -0.6 | .00 | -26.2 | -0.3 | 3.02 | 0.0 |
| 48.5 | -0.6 | .00 | -29.9 | -0.5 | 3.01 | 0.0 |
| 49.0 | -0.4 | .00 | -24.8 | -0.4 | 3.23 | 0.3 |
| 49.5 | -0.5 | .00 | -22.6 | -0.3 | 3.14 | 0.2 |
| 50.0 | -0.6 | .00 | -25.7 | -0.3 | 2.99 | 0.0 |

WHITE NOISE: A WEIGHTED, PEAK HOLD, 2209 SLM

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 106.1 | 25.5 | 105.9 | | | | |
| 1.0 | 106.9 | 26.0 | 106.0 | | | | |
| 1.5 | 106.6 | 26.5 | 105.9 | | | | |
| 2.0 | 105.9 | 27.0 | 106.8 | | | | |
| 2.5 | 106.1 | 27.5 | 105.9 | | | | |
| 3.0 | 105.5 | 28.0 | 106.3 | | | | |
| 3.5 | 106.1 | 28.5 | 107.2 | | | | |
| 4.0 | 105.1 | 29.0 | 107.2 | | | | |
| 4.5 | 105.5 | 29.5 | 105.6 | | | | |
| 5.0 | 106.7 | 30.0 | 107.7 | | | | |
| 5.5 | 105.9 | 30.5 | 105.7 | | | | |
| 6.0 | 106.1 | | | | | | |
| 6.5 | 106.5 | | | | | | |
| 7.0 | 106.7 | | | | | | |
| 7.5 | 105.3 | | | | | | |
| 8.0 | 106.1 | | | | | | |
| 8.5 | 106.1 | | | | | | |
| 9.0 | 105.7 | | | | | | |
| 9.5 | 106.3 | | | | | | |
| 10.0 | 105.5 | | | | | | |
| 10.5 | 106.7 | | | | | | |
| 11.0 | 106.0 | | | | | | |
| 11.5 | 107.1 | | | | | | |
| 12.0 | 106.4 | | | | | | |
| 12.5 | 107.0 | | | | | | |
| 13.0 | 106.1 | | | | | | |
| 13.5 | 106.1 | | | | | | |
| 14.0 | 106.3 | | | | | | |
| 14.5 | 105.9 | | | | | | |
| 15.0 | 106.7 | | | | | | |
| 15.5 | 105.9 | | | | | | |
| 16.0 | 106.5 | | | | | | |
| 16.5 | 106.1 | | | | | | |
| 17.0 | 105.9 | | | | | | |
| 17.5 | 106.3 | | | | | | |
| 18.0 | 106.1 | | | | | | |
| 18.5 | 106.1 | | | | | | |
| 19.0 | 106.3 | | | | | | |
| 19.5 | 105.9 | | | | | | |
| 20.0 | 105.9 | | | | | | |
| 20.5 | 107.3 | | | | | | |
| 21.0 | 107.7 | | | | | | |
| 21.5 | 105.9 | | | | | | |
| 22.0 | 105.6 | | | | | | |
| 22.5 | 106.1 | | | | | | |
| 23.0 | 106.7 | | | | | | |
| 23.5 | 105.6 | | | | | | |
| 24.0 | 105.9 | | | | | | |
| 24.5 | 106.5 | | | | | | |
| 25.0 | 105.9 | | | | | | |

$m = 106.0$ dB

$s = 0.50$

$L_{pk} - L_{rms} = 12.1$ dB

WHITE NOISE: A WEIGHTED, RMS SLOW, 2209 SLM

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 93.9 | 25.5 | 94.0 | | | | |
| 1.0 | 94.0 | 26.0 | 93.9 | | | | |
| 1.5 | 93.8 | 26.5 | 93.8 | | | | |
| 2.0 | 93.9 | 27.0 | 93.9 | | | | |
| 2.5 | 93.7 | 27.5 | 93.9 | | | | |
| 3.0 | 93.9 | 28.0 | 93.9 | | | | |
| 3.5 | 93.9 | 28.5 | 93.9 | | | | |
| 4.0 | 93.9 | 29.0 | 93.8 | | | | |
| 4.5 | 94.0 | 29.5 | 93.7 | | | | |
| 5.0 | 93.9 | | | | | | |
| 5.5 | 93.9 | | | | | | |
| 6.0 | 94.0 | | | | | | |
| 6.5 | 94.0 | | | | | | |
| 7.0 | 93.9 | | | | | | |
| 7.5 | 93.8 | | | | | | |
| 8.0 | 93.9 | | | | | | |
| 8.5 | 93.9 | | | | | | |
| 9.0 | 93.9 | | | | | | |
| 9.5 | 93.9 | | | | | | |
| 10.0 | 93.8 | | | | | | |
| 10.5 | 93.9 | | | | | | |
| 11.0 | 94.0 | | | | | | |
| 11.5 | 93.9 | | | | | | |
| 12.0 | 93.9 | | | | | | |
| 12.5 | 93.9 | | | | | | |
| 13.0 | 93.9 | | | | | | |
| 13.5 | 93.8 | | | | | | |
| 14.0 | 93.9 | | | | | | |
| 14.5 | 93.9 | | | | | | |
| 15.0 | 93.9 | | | | | | |
| 15.5 | 93.9 | | | | | | |
| 16.0 | 93.9 | | | | | | |
| 16.5 | 93.9 | | | | | | |
| 17.0 | 93.9 | | | | | | |
| 17.5 | 93.9 | | | | | | |
| 18.0 | 93.9 | | | | | | |
| 18.5 | 94.0 | | | | | | |
| 19.0 | 94.0 | | | | | | |
| 19.5 | 94.0 | | | | | | |
| 20.0 | 93.9 | | | | | | |
| 20.5 | 93.8 | | | | | | |
| 21.0 | 94.0 | | | | | | |
| 21.5 | 93.9 | | | | | | |
| 22.0 | 93.9 | | | | | | |
| 22.5 | 93.9 | | | | | | |
| 23.0 | 93.9 | | | | | | |
| 23.5 | 93.8 | | | | | | |
| 24.0 | 93.9 | | | | | | |
| 24.5 | 93.9 | | | | | | |
| 25.0 | 94.0 | | | | | | |

WHITE NOISE: LINEAR, PEAK HOLD, SLM 2209.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 95.4 | 25.5 | 96.6 | | | | |
| 1.0 | 95.4 | 26.0 | 96.0 | | | | |
| 1.5 | 96.0 | 26.5 | 95.8 | | | | |
| 2.0 | 96.2 | 27.0 | 95.5 | | | | |
| 2.5 | 96.0 | 27.5 | 96.2 | | | | |
| 3.0 | 95.4 | 28.0 | 95.9 | | | | |
| 3.5 | 95.9 | 28.5 | 96.2 | | | | |
| 4.0 | 95.5 | 29.0 | 96.1 | | | | |
| 4.5 | 95.8 | 29.5 | 95.8 | | | | |
| 5.0 | 96.0 | 30.0 | 95.5 | | | | |
| 5.5 | 96.0 | 30.5 | 95.2 | | | | |
| 6.0 | 95.4 | | | | | | |
| 6.5 | 95.5 | | | | | | |
| 7.0 | 96.9 | | | | | | |
| 7.5 | 95.4 | | | | | | |
| 8.0 | 95.4 | | | | | | |
| 8.5 | 95.5 | | | | | | |
| 9.0 | 96.1 | | | | | | |
| 9.5 | 96.2 | | | | | | |
| 10.0 | 95.3 | | | | | | |
| 10.5 | 96.2 | | | | | | |
| 11.0 | 96.9 | | | | | | |
| 11.5 | 96.2 | | | | | | |
| 12.0 | 95.9 | | | | | | |
| 12.5 | 95.2 | | | | | | |
| 13.0 | 96.1 | | | | | | |
| 13.5 | 96.1 | | | | | | |
| 14.0 | 95.5 | | | | | | |
| 14.5 | 95.6 | | | | | | |
| 15.0 | 95.9 | | | | | | |
| 15.5 | 96.4 | | | | | | |
| 16.0 | 95.7 | | | | | | |
| 16.5 | 95.4 | | | | | | |
| 17.0 | 96.5 | | | | | | |
| 17.5 | 95.9 | | | | | | |
| 18.0 | 96.0 | | | | | | |
| 18.5 | 96.2 | | | | | | |
| 19.0 | 96.4 | | | | | | |
| 19.5 | 95.5 | | | | | | |
| 20.0 | 96.5 | | | | | | |
| 20.5 | 96.3 | | | | | | |
| 21.0 | 95.8 | | | | | | |
| 21.5 | 95.8 | | | | | | |
| 22.0 | 95.8 | | | | | | |
| 22.5 | 96.6 | | | | | | |
| 23.0 | 97.0 | | | | | | |
| 23.5 | 96.0 | | | | | | |
| 24.0 | 95.2 | | | | | | |
| 24.5 | 96.0 | | | | | | |
| 25.0 | 96.5 | | | | | | |

$m = 95.9$ dB

$s = 0.44$ dB

$L_{pk-rms} = 10.4$ dB

WHITE NOISE: LINEAR, RMS SLOW, 2209 SLM.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 85.4 | 25.5 | 85.4 | | | | |
| 1.0 | 85.4 | 26.0 | 85.4 | | | | |
| 1.5 | 85.4 | 26.5 | 85.4 | | | | |
| 2.0 | 85.4 | 27.0 | 85.4 | | | | |
| 2.5 | 85.4 | 27.5 | 85.4 | | | | |
| 3.0 | 85.4 | 28.0 | 85.4 | | | | |
| 3.5 | 85.4 | 28.5 | 85.4 | | | | |
| 4.0 | 85.4 | 29.0 | 85.4 | | | | |
| 4.5 | 85.4 | 29.5 | 85.4 | | | | |
| 5.0 | 85.4 | 30.0 | 85.4 | | | | |
| 5.5 | 85.4 | | | | | | |
| 6.0 | 85.4 | | | | | | |
| 6.5 | 85.4 | | | | | | |
| 7.0 | 85.4 | | | | | | |
| 7.5 | 85.4 | | | | | | |
| 8.0 | 85.4 | | | | | | |
| 8.5 | 85.4 | | | | | | |
| 9.0 | 85.4 | | | | | | |
| 9.5 | 85.5 | | | | | | |
| 10.0 | 85.4 | | | | | | |
| 10.5 | 85.4 | | | | | | |
| 11.0 | 85.4 | | | | | | |
| 11.5 | 85.4 | | | | | | |
| 12.0 | 85.4 | | | | | | |
| 12.5 | 85.4 | | | | | | |
| 13.0 | 85.4 | | | | | | |
| 13.5 | 85.4 | | | | | | |
| 14.0 | 85.4 | | | | | | |
| 14.5 | 85.4 | | | | | | |
| 15.0 | 85.4 | | | | | | |
| 15.5 | 85.4 | | | | | | |
| 16.0 | 85.4 | | | | | | |
| 16.5 | 85.5 | | | | | | |
| 17.0 | 85.4 | | | | | | |
| 17.5 | 85.4 | | | | | | |
| 18.0 | 85.4 | | | | | | |
| 18.5 | 85.4 | | | | | | |
| 19.0 | 85.4 | | | | | | |
| 19.5 | 85.4 | | | | | | |
| 20.0 | 85.4 | | | | | | |
| 20.5 | 85.4 | | | | | | |
| 21.0 | 85.4 | | | | | | |
| 21.5 | 85.4 | | | | | | |
| 22.0 | 85.4 | | | | | | |
| 22.5 | 85.4 | | | | | | |
| 23.0 | 85.4 | | | | | | |
| 23.5 | 85.4 | | | | | | |
| 24.0 | 85.4 | | | | | | |
| 24.5 | 85.4 | | | | | | |
| 25.0 | 85.4 | | | | | | |

# APPENDIX A

## MAN-Acoustics Data Set

South Africa - Difference in time integrals of A-weighted sound level obtained with impulse and slow averaging times.

| Event | $\Delta_{SA}$ dB |
|---|---|
| 1 | 1.4 |
| 2 | 1.4 |
| 3 | 1.3 |
| 4 | 3.1 |
| 5 | 1.4 |
| 6 | 1.3 |
| 7 | 1.1 |
| 8 | 0.5 |
| 9 | 0.6 |
| 10 | 1.1 |
| 11 | 1.9 |
| 12 | 0.8 |
| 13 | 1.0 |
| 14 | 2.5 |
| 15 | 3.9 |
| 16 | 0.6 |
| 17 | 1.6 |
| 18 | 0.4 |
| 19 | 1.2 |
| 20 | 2.9 |
| 21 | 2.6 |
| 22 | 0.8 |
| 23 | 2.4 |
| 24 | 1.6 |

MAN-ACOUSTICS #1: SIMULATION - TRN W/ NO SLAP (STANDARD)

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -36.8 | .00 | -26.8 | -34.0 | 4.16 | 1.3 |
| 1.0 | -34.0 | .00 | -14.0 | -33.4 | 4.41 | 1.6 |
| 1.5 | -22.3 | 5.80 | 7.6 | -22.3 | 7.33 | 5.0 |
| 2.0 | -6.6 | .06 | -11.7 | -6.9 | 3.73 | 0.8 |
| 2.5 | -2.5 | .00 | -24.0 | -2.3 | 2.68 | -0.4 |
| 3.0 | -0.4 | .00 | -25.4 | -0.7 | 2.81 | -0.2 |
| 3.5 | 0.0 | .00 | -31.5 | 0.0 | 2.70 | -0.3 |
| 4.0 | 0.0 | .00 | -29.3 | -0.4 | 2.70 | -0.3 |
| 4.5 | 0.0 | .00 | -24.6 | 0.0 | 2.70 | -0.3 |
| 5.0 | -0.2 | .00 | -31.9 | -0.4 | 2.69 | -0.3 |
| 5.5 | 0.0 | .00 | -28.1 | -0.3 | 2.75 | -0.3 |
| 6.0 | 0.0 | .00 | -33.2 | -0.4 | 2.72 | -0.3 |
| 6.5 | -0.2 | .00 | -32.8 | 0.0 | 2.75 | -0.3 |
| 7.0 | -0.2 | .00 | -28.0 | -0.5 | 2.68 | -0.4 |
| 7.5 | 0.0 | .00 | -30.1 | 0.0 | 2.70 | -0.3 |
| 8.0 | -0.2 | .00 | -30.3 | -0.5 | 2.72 | -0.3 |
| 8.5 | 0.0 | .00 | -30.2 | 0.0 | 2.78 | -0.3 |
| 9.0 | 0.0 | .00 | -29.0 | -0.3 | 2.64 | -0.4 |
| 9.5 | -0.2 | .00 | -29.4 | 0.0 | 2.83 | -0.2 |
| 10.0 | 0.0 | .00 | -27.0 | -0.4 | 2.69 | -0.4 |
| 10.5 | -0.2 | .00 | -27.6 | 0.0 | 2.77 | -0.3 |
| 11.0 | -0.3 | .00 | -32.5 | -0.3 | 2.60 | -0.5 |
| 11.5 | 0.0 | .00 | -30.1 | 0.0 | 2.81 | -0.2 |
| 12.0 | 0.0 | .00 | -26.1 | -0.3 | 2.75 | -0.3 |
| 12.5 | 0.0 | .00 | -28.0 | -0.3 | 2.92 | 0.0 |
| 13.0 | -0.5 | .00 | -25.3 | -0.6 | 2.65 | -0.4 |
| 13.5 | -0.7 | .00 | -30.0 | -0.8 | 2.91 | 0.0 |
| 14.0 | -2.6 | .00 | -22.7 | -2.4 | 2.66 | -0.4 |
| 14.5 | -6.9 | .06 | -11.7 | -7.2 | 3.50 | 0.6 |
| 15.0 | -21.6 | 4.77 | 6.8 | -20.8 | 7.78 | 5.5 |
| 15.5 | -35.2 | .00 | -20.0 | -35.3 | 3.51 | 0.6 |
| 16.0 | -36.0 | .00 | -27.3 | -36.3 | 3.96 | 1.1 |
| 16.5 | -36.3 | .00 | -28.8 | -36.3 | 3.03 | 0.0 |
| 17.0 | -36.5 | .00 | -28.4 | -36.4 | 2.99 | 0.0 |
| 17.5 | -37.0 | .00 | -24.3 | -35.6 | 4.12 | 1.3 |

MAN-ACOUSTICS #2 SIMULATION - TRN W/ LT SLAP AT 10 DPS

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -37.6 | .00 | -28.3 | -37.7 | 2.99 | 0.0 |
| 1.0 | -37.4 | .00 | -25.5 | -38.0 | 3.87 | 1.0 |
| 1.5 | -37.8 | .00 | -29.0 | -36.1 | 3.15 | 0.2 |
| 2.0 | -37.4 | .00 | -28.8 | -36.8 | 2.98 | 0.0 |
| 2.5 | -37.6 | .00 | -29.7 | -36.7 | 2.86 | -0.2 |
| 3.0 | -34.3 | .23 | -6.3 | -33.3 | 5.14 | 2.4 |
| 3.5 | -15.0 | 1.89 | 2.8 | -15.2 | 7.21 | 4.8 |
| 4.0 | -6.7 | .00 | -17.2 | -6.3 | 3.33 | 0.4 |
| 4.5 | -2.9 | .00 | -21.8 | -3.1 | 2.84 | -0.2 |
| 5.0 | -1.0 | .00 | -24.0 | -1.0 | 2.85 | -0.2 |
| 5.5 | -0.3 | .00 | -29.4 | 0.0 | 2.61 | -0.4 |
| 6.0 | 0.0 | .00 | -26.8 | -0.4 | 3.00 | 0.0 |
| 6.5 | -0.4 | .00 | -27.9 | 0.0 | 2.70 | -0.3 |
| 7.0 | 0.0 | .00 | -31.3 | -0.4 | 3.00 | 0.0 |
| 7.5 | -0.5 | .00 | -29.8 | 0.0 | 2.67 | -0.4 |
| 8.0 | -0.5 | .00 | -28.3 | -0.6 | 2.82 | -0.2 |
| 8.5 | -0.2 | .00 | -29.6 | 0.0 | 2.94 | 0.0 |
| 9.0 | -0.4 | .00 | -28.7 | -0.4 | 2.71 | -0.3 |
| 9.5 | -0.3 | .00 | -28.5 | -0.3 | 2.70 | -0.3 |
| 10.0 | -0.2 | .00 | -28.5 | -0.2 | 2.63 | -0.4 |
| 10.5 | 0.0 | .00 | -30.0 | -0.4 | 3.11 | 0.1 |
| 11.0 | 0.0 | .00 | -24.0 | 0.0 | 2.74 | -0.3 |
| 11.5 | -0.3 | .00 | -28.8 | -0.6 | 3.13 | 0.2 |
| 12.0 | -0.5 | .00 | -26.6 | 0.0 | 2.74 | -0.3 |
| 12.5 | -0.3 | .00 | -27.7 | -0.3 | 2.80 | -0.2 |
| 13.0 | -0.2 | .00 | -29.4 | 0.0 | 2.77 | -0.3 |
| 13.5 | -0.2 | .00 | -32.0 | -0.5 | 2.84 | -0.2 |
| 14.0 | -0.2 | .00 | -26.9 | 0.0 | 2.83 | -0.2 |
| 14.5 | 0.0 | .00 | -29.9 | 0.0 | 2.68 | -0.4 |
| 15.0 | 0.0 | .00 | -29.9 | 0.0 | 2.91 | 0.0 |
| 15.5 | -2.8 | .00 | -21.6 | -2.2 | 3.02 | 0.0 |
| 16.0 | -8.0 | .19 | -7.1 | -8.6 | 4.64 | 1.9 |
| 16.5 | -34.7 | .46 | -3.3 | -34.3 | 3.71 | 0.8 |
| 17.0 | -36.0 | 3.28 | 5.2 | -34.9 | 7.72 | 5.4 |
| 17.5 | -37.1 | .00 | -28.2 | -36.0 | 5.23 | 2.5 |

MAN-ACOUSTICS #3: SIMULATION - TRN W/ MOD SLAP AT 10 BPS

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -36.6 | .00 | -27.0 | -35.7 | 3.08 | 0.1 |
| 1.0 | -36.4 | .00 | -28.3 | -35.6 | 3.67 | 0.8 |
| 1.5 | -36.3 | .00 | -28.1 | -37.5 | 2.49 | -0.6 |
| 2.0 | -35.9 | .00 | -30.9 | -36.6 | 3.98 | 1.1 |
| 2.5 | -36.1 | .00 | -27.2 | -37.4 | 3.36 | 0.4 |
| 3.0 | -35.9 | .00 | -27.0 | -36.7 | 2.88 | 0.0 |
| 3.5 | -32.8 | .31 | -5.0 | -32.9 | 6.19 | 3.7 |
| 4.0 | -22.9 | .66 | -1.8 | -22.9 | 5.57 | 2.9 |
| 4.5 | -11.3 | .24 | -6.1 | -11.4 | 4.31 | 1.5 |
| 5.0 | -5.0 | .07 | -11.2 | -4.9 | 3.83 | 0.9 |
| 5.5 | -2.6 | .00 | -14.6 | -2.1 | 4.17 | 1.3 |
| 6.0 | -0.8 | .00 | -19.5 | -0.5 | 4.21 | 1.4 |
| 6.5 | 0.0 | .00 | -16.0 | -0.3 | 3.91 | 1.0 |
| 7.0 | -0.8 | .00 | -22.4 | 0.0 | 3.41 | 0.5 |
| 7.5 | -0.3 | .00 | -18.5 | -0.3 | 3.66 | 0.8 |
| 8.0 | -0.3 | .00 | -17.5 | -0.3 | 4.13 | 1.3 |
| 8.5 | -0.4 | .00 | -21.2 | -0.3 | 4.21 | 1.4 |
| 9.0 | -0.3 | .00 | -21.0 | -0.3 | 4.09 | 1.3 |
| 9.5 | -0.3 | .00 | -19.2 | -0.4 | 3.56 | 0.6 |
| 10.0 | -0.5 | .00 | -17.0 | -0.2 | 3.28 | 0.3 |
| 10.5 | -0.5 | .00 | -17.4 | 0.0 | 3.43 | 0.5 |
| 11.0 | -0.2 | .00 | -17.7 | -0.2 | 4.00 | 1.1 |
| 11.5 | -0.6 | .00 | -19.1 | -0.2 | 3.14 | 0.2 |
| 12.0 | -0.3 | .00 | -17.9 | -0.2 | 3.56 | 0.6 |
| 12.5 | -0.5 | .00 | -18.1 | 0.0 | 3.29 | 0.3 |
| 13.0 | -0.5 | .00 | -18.1 | -0.4 | 3.56 | 0.6 |
| 13.5 | -0.4 | .00 | -16.8 | -0.2 | 3.30 | 0.3 |
| 14.0 | -0.5 | .00 | -18.9 | -0.5 | 3.58 | 0.7 |
| 14.5 | -0.6 | .00 | -18.6 | -0.2 | 3.52 | 0.6 |
| 15.0 | -0.3 | .00 | -21.2 | -0.3 | 4.95 | 2.2 |
| 15.5 | -0.5 | .00 | -15.8 | 0.0 | 3.89 | 1.0 |
| 16.0 | -0.5 | .00 | -18.8 | -0.3 | 3.50 | 0.6 |
| 16.5 | -0.4 | .00 | -15.6 | -0.2 | 3.88 | 1.0 |
| 17.0 | -3.1 | .08 | -10.7 | -2.7 | 3.70 | 0.8 |
| 17.5 | -7.2 | .12 | -8.9 | -6.8 | 3.97 | 1.1 |
| 18.0 | -16.6 | 3.03 | 4.8 | -15.4 | 7.09 | 4.7 |
| 18.5 | -34.8 | .00 | -20.3 | -32.5 | 3.66 | 0.8 |
| 19.0 | -36.1 | .00 | -25.2 | -37.4 | 2.91 | 0.0 |

MAN-ACOUSTICS #4 SIMULATION - TRN N.T HVY SLAP AT 10 BPS

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -31.1 | .00 | -26.6 | -36.8 | 2.96 | 0.0 |
| 1.0 | -31.1 | .00 | -24.6 | -34.6 | 2.63 | -0.4 |
| 1.5 | -31.3 | .00 | -27.1 | -35.2 | 4.34 | 1.5 |
| 2.0 | -30.9 | .00 | -28.4 | -34.8 | 2.42 | -0.7 |
| 2.5 | -30.8 | .00 | -27.5 | -35.7 | 2.82 | -0.2 |
| 3.0 | -30.7 | .00 | -28.4 | -35.2 | 3.18 | 0.2 |
| 3.5 | -30.8 | .00 | -25.8 | -34.9 | 2.45 | -0.6 |
| 4.0 | -29.3 | .43 | -3.7 | -31.4 | 5.04 | 2.3 |
| 4.5 | -19.1 | 212.37 | 23.3 | -19.8 | 45.31 | 48.4 |
| 5.0 | -6.9 | 14.29 | 11.6 | -7.0 | 10.14 | 8.2 |
| 5.5 | -2.7 | 6.57 | 8.2 | -2.4 | 7.22 | 4.8 |
| 6.0 | -0.7 | 3.91 | 5.9 | -0.7 | 6.36 | 3.8 |
| 6.5 | -0.3 | 2.08 | 3.2 | 0.0 | 5.91 | 3.3 |
| 7.0 | 0.0 | 2.47 | 3.9 | 0.0 | 5.93 | 3.3 |
| 7.5 | 0.0 | 2.86 | 4.6 | -0.2 | 6.03 | 3.5 |
| 8.0 | 0.0 | 2.86 | 4.6 | 0.0 | 6.15 | 3.6 |
| 8.5 | 0.0 | 2.14 | 3.3 | 0.0 | 5.70 | 3.1 |
| 9.0 | -0.2 | 3.08 | 4.9 | -0.2 | 6.59 | 4.1 |
| 9.5 | -0.2 | 3.31 | 5.2 | -0.4 | 5.96 | 3.4 |
| 10.0 | 0.0 | 3.07 | 4.9 | -0.2 | 6.24 | 3.7 |
| 10.5 | -0.3 | 2.94 | 4.7 | -0.2 | 5.89 | 3.3 |
| 11.0 | -0.4 | 3.53 | 5.5 | 0.0 | 5.94 | 3.4 |
| 11.5 | -0.3 | 3.33 | 5.2 | 0.0 | 5.83 | 3.2 |
| 12.0 | -0.4 | 2.63 | 4.2 | 0.0 | 6.13 | 3.6 |
| 12.5 | 0.2 | 2.76 | 4.4 | 0.0 | 5.98 | 3.4 |
| 13.0 | 0.0 | 2.51 | 4.0 | 0.0 | 6.06 | 3.5 |
| 13.5 | -0.2 | 4.62 | 6.6 | -0.2 | 6.20 | 3.7 |
| 14.0 | 0.4 | 3.41 | 5.3 | -0.5 | 6.06 | 3.5 |
| 14.5 | 0.0 | 3.90 | 5.9 | 0.0 | 6.00 | 3.4 |
| 15.0 | 0.0 | 3.29 | 5.2 | 0.0 | 5.74 | 3.1 |
| 15.5 | -0.2 | 4.83 | 6.8 | 0.0 | 6.11 | 3.6 |
| 16.0 | -0.6 | 3.51 | 5.5 | 0.0 | 6.10 | 3.6 |
| 16.5 | -0.9 | 3.32 | 5.2 | -0.5 | 6.41 | 3.9 |
| 17.0 | -2.9 | 10.92 | 10.4 | -2.5 | 6.97 | 4.5 |
| 17.5 | -7.6 | 26.84 | 14.3 | -7.4 | 9.49 | 7.4 |
| 18.0 | -27.1 | 2.93 | 4.7 | -25.7 | 6.36 | 3.8 |
| 18.5 | -30.8 | .00 | -28.8 | -32.7 | 2.64 | -0.4 |
| 19.0 | -31.0 | .00 | -30.2 | -34.4 | 3.14 | 0.2 |
| 19.5 | -30.8 | .00 | -29.0 | -34.9 | 3.15 | 0.2 |

MAN-ACOUSTICS #5: SIMULATION - TRN W/ MOD SLAP AT 6 BPS

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -36.0 | .00 | -29.1 | -38.1 | 3.02 | 0.0 |
| 1.0 | -35.1 | .00 | -21.9 | -37.3 | 3.12 | 0.1 |
| 1.5 | -30.3 | .00 | -13.5 | -30.9 | 4.28 | 1.5 |
| 2.0 | -17.9 | 1.25 | 1.0 | -18.0 | 6.28 | 3.8 |
| 2.5 | -9.5 | .20 | -7.0 | -9.8 | 3.83 | 1.0 |
| 3.0 | -5.0 | .00 | -20.5 | -4.9 | 3.21 | 0.2 |
| 3.5 | -2.4 | .00 | -24.0 | -2.5 | 2.96 | 0.0 |
| 4.0 | -0.5 | .00 | -18.8 | -0.6 | 3.15 | 0.2 |
| 4.5 | 0.0 | .00 | -17.6 | -0.3 | 3.26 | 0.3 |
| 5.0 | -0.6 | .00 | -16.3 | -0.3 | 3.50 | 0.6 |
| 5.5 | -0.6 | .00 | -17.0 | 0.0 | 3.15 | 0.2 |
| 6.0 | 0.0 | .00 | -19.5 | -0.3 | 3.13 | 0.2 |
| 6.5 | -0.4 | .00 | -26.1 | -0.2 | 2.81 | -0.2 |
| 7.0 | -0.4 | .00 | -22.0 | -0.3 | 3.10 | 0.1 |
| 7.5 | -0.2 | .00 | -17.4 | 0.0 | 3.20 | 0.2 |
| 8.0 | 0.0 | .00 | -15.0 | -0.3 | 3.80 | 0.9 |
| 8.5 | 0.0 | .00 | -15.6 | -0.2 | 3.44 | 0.5 |
| 9.0 | -0.5 | .00 | -17.1 | -0.3 | 3.50 | 0.6 |
| 9.5 | -0.4 | .00 | -19.4 | -0.2 | 3.29 | 0.3 |
| 10.0 | -0.4 | .00 | -21.8 | -0.4 | 3.56 | 0.6 |
| 10.5 | -0.6 | .00 | -23.8 | 0.0 | 3.06 | 0.1 |
| 11.0 | -0.3 | .00 | -26.3 | -0.6 | 2.97 | 0.0 |
| 11.5 | -0.2 | .00 | -19.5 | -0.2 | 3.00 | 0.0 |
| 12.0 | 0.0 | .00 | -22.2 | -0.4 | 3.17 | 0.2 |
| 12.5 | -0.5 | .00 | -19.8 | -0.4 | 3.49 | 0.6 |
| 13.0 | -0.2 | .00 | -18.5 | -0.5 | 3.61 | 0.7 |
| 13.5 | 0.0 | .00 | -17.1 | -0.3 | 3.50 | 0.6 |
| 14.0 | -0.3 | .00 | -17.3 | 0.0 | 3.84 | 1.0 |
| 14.5 | -0.8 | .00 | -15.4 | -0.7 | 3.67 | 0.8 |
| 15.0 | -4.1 | .08 | -10.5 | -4.1 | 3.96 | 1.1 |
| 15.5 | -11.0 | .62 | -2.0 | -10.9 | 5.70 | 3.1 |
| 16.0 | -32.5 | .20 | -6.9 | -32.3 | 5.28 | 2.6 |
| 16.5 | -35.3 | .00 | -24.6 | -37.1 | 3.17 | 0.2 |
| 17.0 | -35.5 | .00 | -30.6 | -36.8 | 3.30 | 0.4 |

MAN-ACOUSTICS #6 SIMULATION - TRN W/ MOD SLAP AT 18 BPS

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -35.9 | .00 | -27.5 | -37.8 | 3.45 | 0.5 |
| 1.0 | -35.3 | .00 | -18.3 | -36.0 | 4.07 | 1.2 |
| 1.5 | -31.0 | .00 | -13.8 | -31.0 | 3.46 | 0.5 |
| 2.0 | -15.1 | 2.44 | 3.9 | -14.9 | 8.18 | 5.9 |
| 2.5 | -7.8 | .07 | -11.0 | -7.4 | 3.87 | 1.0 |
| 3.0 | -4.5 | .00 | -12.8 | -4.3 | 3.63 | 0.7 |
| 3.5 | -2.1 | .00 | -13.5 | -1.8 | 3.27 | 0.3 |
| 4.0 | -0.2 | .00 | -15.8 | -0.4 | 3.14 | 0.2 |
| 4.5 | -0.3 | .00 | -16.4 | 0.0 | 3.26 | 0.3 |
| 5.0 | -0.7 | .00 | -18.9 | -0.4 | 3.15 | 0.2 |
| 5.5 | -0.5 | .00 | -17.9 | -0.2 | 3.04 | 0.1 |
| 6.0 | 0.0 | .00 | -18.8 | -0.3 | 3.23 | 0.3 |
| 6.5 | -0.5 | .00 | -18.9 | -0.2 | 3.20 | 0.2 |
| 7.0 | -0.2 | .00 | -21.0 | -0.2 | 3.21 | 0.2 |
| 7.5 | -0.2 | .00 | -20.4 | -0.2 | 3.10 | 0.1 |
| 8.0 | 0.0 | .00 | -16.9 | -0.3 | 3.01 | 0.0 |
| 8.5 | -0.6 | .00 | -13.0 | -0.2 | 2.96 | 0.0 |
| 9.0 | 0.0 | .00 | -16.0 | -0.3 | 3.08 | 0.1 |
| 9.5 | 0.0 | .00 | -18.2 | 0.0 | 3.05 | 0.1 |
| 10.0 | -0.3 | .00 | -17.1 | -0.4 | 3.05 | 0.1 |
| 10.5 | 0.0 | .00 | -15.4 | 0.0 | 3.00 | 0.0 |
| 11.0 | -0.2 | .00 | -15.4 | -0.2 | 3.17 | 0.2 |
| 11.5 | -0.7 | .00 | -14.5 | 0.0 | 3.11 | 0.1 |
| 12.0 | 0.0 | .00 | -17.7 | 0.0 | 3.06 | 0.1 |
| 12.5 | -0.3 | .00 | -18.8 | -0.2 | 3.29 | 0.3 |
| 13.0 | -0.3 | .00 | -17.9 | -0.2 | 3.00 | 0.0 |
| 13.5 | -0.2 | .00 | -19.3 | 0.0 | 3.13 | 0.2 |
| 14.0 | -0.2 | .00 | -15.3 | -0.2 | 3.24 | 0.3 |
| 14.5 | -1.0 | .00 | -16.6 | -0.3 | 3.16 | 0.2 |
| 15.0 | -2.5 | .00 | -15.2 | -2.2 | 3.48 | 0.6 |
| 15.5 | -8.4 | .40 | -3.9 | -8.1 | 4.38 | 1.6 |
| 16.0 | -29.0 | .21 | -6.6 | -28.8 | 4.31 | 1.5 |
| 16.5 | -35.0 | .00 | -20.1 | -36.5 | 2.80 | -0.2 |
| 17.0 | -36.1 | .00 | -25.0 | -37.2 | 2.97 | 0.0 |
| 17.5 | -35.9 | .00 | -26.8 | -38.0 | 3.61 | 0.7 |

MAN-ACOUSTICS #7: SIMULATION - TRN W/ MOD SLAP AT 10 BPS

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -36.5 | .00 | -26.8 | -37.9 | 3.29 | 0.3 |
| 1.0 | -36.4 | .00 | -27.8 | -35.7 | 3.64 | 0.7 |
| 1.5 | -32.2 | 1.11 | 0.5 | -32.7 | 4.61 | 1.8 |
| 2.0 | -13.6 | 1.26 | 1.0 | -13.9 | 7.82 | 5.5 |
| 2.5 | -5.8 | .34 | -4.6 | -5.9 | 4.52 | 1.7 |
| 3.0 | -1.9 | .00 | -17.9 | -1.9 | 2.80 | -0.2 |
| 3.5 | -0.3 | .00 | -20.1 | -0.5 | 2.98 | 0.0 |
| 4.0 | -0.3 | .00 | -21.3 | 0.0 | 3.22 | 0.3 |
| 4.5 | -0.3 | .00 | -16.7 | -0.5 | 3.27 | 0.3 |
| 5.0 | -0.4 | .00 | -24.0 | -0.4 | 2.70 | -0.3 |
| 5.5 | -0.2 | .00 | -15.5 | -0.4 | 3.15 | 0.2 |
| 6.0 | -0.3 | .00 | -18.2 | -0.2 | 3.21 | 0.2 |
| 6.5 | -0.4 | .00 | -24.3 | -0.6 | 2.96 | 0.0 |
| 7.0 | -0.4 | .00 | -22.3 | -0.4 | 2.81 | -0.2 |
| 7.5 | -0.2 | .00 | -15.3 | -0.4 | 3.30 | 0.3 |
| 8.0 | -0.3 | .00 | -20.2 | -0.4 | 3.22 | 0.3 |
| 8.5 | -0.5 | .00 | -21.1 | -0.4 | 2.80 | -0.2 |
| 9.0 | 0.0 | .00 | -15.9 | -0.6 | 2.95 | 0.0 |
| 9.5 | -0.3 | .00 | -16.9 | 0.0 | 3.13 | 0.2 |
| 10.0 | -0.2 | .00 | -21.3 | -0.4 | 3.38 | 0.4 |
| 10.5 | -0.4 | .00 | -22.1 | -0.3 | 2.76 | -0.3 |
| 11.0 | 0.0 | .00 | -20.6 | -0.5 | 3.18 | 0.2 |
| 11.5 | -0.2 | .00 | -16.1 | 0.0 | 3.32 | 0.4 |
| 12.0 | -0.3 | .00 | -20.8 | -0.3 | 3.37 | 0.4 |
| 12.5 | -0.5 | .00 | -24.7 | -0.5 | 2.77 | -0.3 |
| 13.0 | 0.0 | .00 | -19.0 | -0.5 | 3.05 | 0.1 |
| 13.5 | -0.2 | .00 | -16.9 | -0.2 | 3.36 | 0.4 |
| 14.0 | -2.5 | .06 | -11.7 | -2.5 | 3.90 | 1.0 |
| 14.5 | -8.5 | .35 | -4.5 | -8.9 | 4.76 | 2.0 |
| 15.0 | -26.6 | 4.03 | 6.1 | -27.4 | 7.42 | 5.1 |
| 15.5 | -35.9 | .00 | -22.4 | -37.5 | 3.28 | 0.3 |
| 16.0 | -36.3 | .00 | -28.2 | -38.3 | 2.90 | 0.0 |

MAN-ACOUSTICS #8 BOEING 747 TAKEOFF

| TIME | BRITISH 0.5 SEC RMS (RE: MAX) | BRITISH IMPULSE COEF | BRITISH IMPULSE COEF (DB) | FRENCH 0.5 SEC RMS (RE: MAX) | FRENCH IMPULSE COEF | FRENCH IMPULSE CORR (DB) |
|---|---|---|---|---|---|---|
| 0.5 | -25.5 | .00 | -18.9 | -17.8 | 2.70 | -0.3 |
| 1.0 | -22.2 | .00 | -15.8 | -16.7 | 2.69 | -0.4 |
| 1.5 | -19.6 | .00 | -18.9 | -13.0 | 3.06 | 0.1 |
| 2.0 | -17.7 | .00 | -17.4 | -10.2 | 2.84 | -0.2 |
| 2.5 | -16.2 | .00 | -20.6 | -6.5 | 3.03 | 0.0 |
| 3.0 | -14.7 | .00 | -22.4 | -4.8 | 2.68 | -0.4 |
| 3.5 | -11.7 | .00 | -18.0 | -4.4 | 2.51 | -0.5 |
| 4.0 | -11.8 | .00 | -20.9 | -4.9 | 2.58 | -0.5 |
| 4.5 | -13.6 | .00 | -20.9 | -4.8 | 2.88 | 0.0 |
| 5.0 | -14.2 | .00 | -18.4 | -5.2 | 2.83 | -0.2 |
| 5.5 | -13.1 | .00 | -20.8 | -5.0 | 2.59 | -0.5 |
| 6.0 | -15.3 | .00 | -25.1 | -5.0 | 2.74 | -0.3 |
| 6.5 | -15.3 | .00 | -20.8 | -4.8 | 2.84 | -0.2 |
| 7.0 | -15.2 | .00 | -25.5 | -5.1 | 2.92 | 0.0 |
| 7.5 | -13.8 | .00 | -19.6 | -4.7 | 2.62 | -0.4 |
| 8.0 | -10.4 | .00 | -18.4 | -5.2 | 2.74 | -0.3 |
| 8.5 | -9.3 | .00 | -18.5 | -5.7 | 3.10 | 0.1 |
| 9.0 | -10.5 | .00 | -21.4 | -4.6 | 2.55 | -0.5 |
| 9.5 | -12.3 | .00 | -17.9 | -4.9 | 2.59 | -0.5 |
| 10.0 | -10.7 | .00 | -19.1 | -4.1 | 2.77 | -0.3 |
| 10.5 | -8.5 | .00 | -26.8 | -4.4 | 2.96 | 0.0 |
| 11.0 | -7.8 | .00 | -24.6 | -4.8 | 2.73 | -0.3 |
| 11.5 | -6.7 | .00 | -23.4 | -4.2 | 2.88 | 0.0 |
| 12.0 | -7.8 | .00 | -20.8 | -5.0 | 3.06 | 0.1 |
| 12.5 | -8.4 | .00 | -21.0 | -4.9 | 2.80 | -0.2 |
| 13.0 | -8.1 | .00 | -21.2 | -5.9 | 2.97 | 0.0 |
| 13.5 | -5.4 | .00 | -26.6 | -5.0 | 3.06 | 0.1 |
| 14.0 | -5.0 | .00 | -26.5 | -5.2 | 2.76 | -0.3 |
| 14.5 | -4.4 | .00 | -22.2 | -4.9 | 3.34 | 0.4 |
| 15.0 | -4.5 | .00 | -16.6 | -3.1 | 2.92 | 0.0 |
| 15.5 | -3.9 | .00 | -19.8 | -3.4 | 2.89 | 0.0 |
| 16.0 | -4.5 | .00 | -20.1 | -3.3 | 2.92 | 0.0 |
| 16.5 | -3.1 | .00 | -19.6 | -3.1 | 2.92 | 0.0 |
| 17.0 | -3.6 | .00 | -15.4 | -3.4 | 2.87 | 0.0 |
| 17.5 | -2.3 | .00 | -25.6 | -3.2 | 3.05 | 0.1 |
| 18.0 | -2.6 | .00 | -25.0 | -2.9 | 2.72 | -0.3 |
| 18.5 | -2.8 | .00 | -18.5 | -3.1 | 2.84 | -0.2 |
| 19.0 | -1.6 | .00 | -28.3 | -2.0 | 3.12 | 0.1 |
| 19.5 | 0.0 | .00 | -21.9 | -1.4 | 2.80 | -0.2 |
| 20.0 | -1.8 | .00 | -22.2 | -2.8 | 2.97 | 0.0 |
| 20.5 | -1.1 | .00 | -25.5 | -2.3 | 3.13 | 0.2 |
| 21.0 | -1.8 | .00 | -23.2 | -2.5 | 2.92 | 0.0 |
| 21.5 | -1.2 | .00 | -23.9 | -1.6 | 2.96 | 0.0 |
| 22.0 | -1.3 | .00 | -27.6 | -1.3 | 2.76 | -0.3 |
| 22.5 | -1.5 | .00 | -25.7 | -1.7 | 2.96 | 0.0 |
| 23.0 | -1.2 | .00 | -26.0 | -1.7 | 3.04 | 0.1 |
| 23.5 | -1.0 | .00 | -27.2 | -0.9 | 2.81 | -0.2 |
| 24.0 | -2.3 | .00 | -25.1 | -1.6 | 2.93 | 0.0 |
| 24.5 | -1.9 | .00 | -21.9 | -1.6 | 2.95 | 0.0 |
| 25.0 | -2.3 | .00 | -21.2 | -1.6 | 2.94 | 0.0 |

MAN-ACOUSTICS #8: BOEING 747 TAKEOFF

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -1.9 | .00 | -24.2 | -0.9 | 2.83 | -0.2 |
| 26.0 | -1.7 | .00 | -24.5 | -0.7 | 2.85 | -0.2 |
| 26.5 | -1.6 | .00 | -29.0 | -1.6 | 2.94 | 0.0 |
| 27.0 | -1.7 | .00 | -22.8 | -2.5 | 2.82 | -0.2 |
| 27.5 | -1.6 | .00 | -27.1 | -2.1 | 2.94 | 0.0 |
| 28.0 | -1.8 | .00 | -28.3 | -1.7 | 2.92 | 0.0 |
| 28.5 | -1.5 | .00 | -23.3 | -1.3 | 3.43 | 0.5 |
| 29.0 | -2.1 | .00 | -22.6 | -1.3 | 3.01 | 0.0 |
| 29.5 | -2.8 | .00 | -20.7 | -1.1 | 2.84 | -0.2 |
| 30.0 | -2.6 | .00 | -22.1 | 0.0 | 2.70 | -0.3 |
| 30.5 | -1.7 | .00 | -25.2 | -0.7 | 2.90 | 0.0 |
| 31.0 | -2.1 | .00 | -21.7 | -0.7 | 2.72 | -0.3 |
| 31.5 | -2.7 | .00 | -21.8 | -0.6 | 2.87 | 0.0 |
| 32.0 | -2.9 | .00 | -20.9 | -0.6 | 2.85 | -0.2 |
| 32.5 | -3.4 | .00 | -22.8 | -0.3 | 2.98 | 0.0 |
| 33.0 | -4.0 | .00 | -22.4 | -1.9 | 2.76 | -0.3 |
| 33.5 | -4.2 | .00 | -26.1 | -0.9 | 2.94 | 0.0 |
| 34.0 | -3.8 | .00 | -26.2 | -0.6 | 2.87 | 0.0 |
| 34.5 | -4.3 | .00 | -17.9 | -1.4 | 3.10 | 0.1 |
| 35.0 | -6.2 | .00 | -13.7 | -1.6 | 2.85 | -0.2 |
| 35.5 | -7.1 | .00 | -17.0 | -1.4 | 3.03 | 0.0 |
| 36.0 | -6.2 | .00 | -24.2 | -1.0 | 2.72 | -0.3 |
| 36.5 | -8.2 | .00 | -18.1 | -0.4 | 2.72 | -0.3 |
| 37.0 | -7.7 | .00 | -20.9 | -1.0 | 2.79 | -0.2 |
| 37.5 | -7.1 | .00 | -24.3 | -1.2 | 2.80 | -0.2 |
| 38.0 | -8.5 | .00 | -17.7 | -0.6 | 2.86 | -0.2 |
| 38.5 | -8.4 | .00 | -19.5 | -0.9 | 2.64 | -0.4 |
| 39.0 | -9.4 | .00 | -18.6 | -1.5 | 2.64 | -0.4 |
| 39.5 | -10.1 | .00 | -18.2 | -2.3 | 3.04 | 0.0 |
| 40.0 | -12.6 | .00 | -16.0 | -2.4 | 2.87 | 0.0 |
| 40.5 | -11.3 | .00 | -18.7 | -2.4 | 2.42 | -0.7 |
| 41.0 | -11.6 | .00 | -17.6 | -2.8 | 2.68 | -0.4 |
| 41.5 | -11.3 | .00 | -16.0 | -2.0 | 2.66 | -0.4 |
| 42.0 | -13.1 | .00 | -16.5 | -2.3 | 2.92 | 0.0 |
| 42.5 | -14.9 | .06 | -11.8 | -2.1 | 2.42 | -0.7 |
| 43.0 | -14.4 | .00 | -14.5 | -2.7 | 2.51 | -0.5 |
| 43.5 | -12.9 | .00 | -20.3 | -2.8 | 2.38 | -0.7 |
| 44.0 | -14.5 | .00 | -15.2 | -2.5 | 2.43 | -0.6 |
| 44.5 | -16.7 | .00 | -13.2 | -3.1 | 2.74 | -0.3 |
| 45.0 | -17.1 | .00 | -16.4 | -4.1 | 2.77 | -0.3 |
| 45.5 | -15.5 | .00 | -13.5 | -5.0 | 2.85 | -0.2 |
| 46.0 | -17.2 | .12 | -9.2 | -5.9 | 2.74 | -0.3 |
| 46.5 | -21.0 | .13 | -8.8 | -6.7 | 2.74 | -0.3 |
| 47.0 | -23.0 | .00 | -18.1 | -8.7 | 2.84 | -0.2 |
| 47.5 | -25.1 | .00 | -14.9 | -10.5 | 3.04 | 0.1 |
| 48.0 | -28.2 | .00 | -14.5 | -15.1 | 2.64 | -0.4 |
| 48.5 | -29.6 | .00 | -18.1 | -15.5 | 2.48 | -0.6 |
| 49.0 | -32.9 | .06 | -12.0 | -18.0 | 2.61 | -0.4 |

MAN-ACOUSTICS #9: DC-8 TAKEOFF

| TIME | BRITISH 0.5 SEC RMS (RE: MAX) | BRITISH IMPULSE COEF | BRITISH IMPULSE COEF (DB) | FRENCH 0.5 SEC RMS (RE: MAX) | FRENCH IMPULSE COEF | FRENCH IMPULSE CORR (DB) |
|---|---|---|---|---|---|---|
| 0.5 | -40.7 | .00 | -28.9 | -41.0 | 2.86 | -0.2 |
| 1.0 | -40.3 | .00 | -28.1 | -41.7 | 3.59 | 0.7 |
| 1.5 | -40.4 | .00 | -24.5 | -39.7 | 3.44 | 0.5 |
| 2.0 | -39.3 | .00 | -19.9 | -39.3 | 2.90 | 0.0 |
| 2.5 | -35.3 | .06 | -11.7 | -34.3 | 2.93 | 0.0 |
| 3.0 | -30.2 | .00 | -14.0 | -28.2 | 3.22 | 0.3 |
| 3.5 | -26.7 | .00 | -21.1 | -24.4 | 2.90 | 0.0 |
| 4.0 | -27.8 | .00 | -22.3 | -24.5 | 2.58 | -0.5 |
| 4.5 | -25.9 | .00 | -17.8 | -24.9 | 2.63 | -0.4 |
| 5.0 | -24.8 | .00 | -24.2 | -22.4 | 2.97 | 0.0 |
| 5.5 | -22.9 | .00 | -24.4 | -22.0 | 2.91 | 0.0 |
| 6.0 | -22.5 | .00 | -20.2 | -21.6 | 2.91 | 0.0 |
| 6.5 | -21.6 | .00 | -19.9 | -20.0 | 3.19 | 0.2 |
| 7.0 | -16.9 | .00 | -12.6 | -16.2 | 2.79 | -0.2 |
| 7.5 | -13.3 | .00 | -19.9 | -13.0 | 3.00 | 0.0 |
| 8.0 | -9.5 | .00 | -19.7 | -8.8 | 3.19 | 0.2 |
| 8.5 | -7.9 | .00 | -20.4 | -8.1 | 2.85 | -0.2 |
| 9.0 | -9.1 | .00 | -16.1 | -8.9 | 3.10 | 0.1 |
| 9.5 | -9.1 | .00 | -23.6 | -9.0 | 2.80 | -0.2 |
| 10.0 | -9.4 | .00 | -24.2 | -9.1 | 2.86 | -0.2 |
| 10.5 | -9.2 | .00 | -19.6 | -8.7 | 2.78 | -0.2 |
| 11.0 | -9.0 | .00 | -23.4 | -9.0 | 2.88 | 0.0 |
| 11.5 | -8.2 | .00 | -19.2 | -7.9 | 3.03 | 0.0 |
| 12.0 | -9.4 | .00 | -19.5 | -8.3 | 2.87 | 0.0 |
| 12.5 | -8.8 | .00 | -22.4 | -10.0 | 2.84 | -0.2 |
| 13.0 | -8.4 | .00 | -19.7 | -9.1 | 2.81 | -0.2 |
| 13.5 | -10.2 | .00 | -16.3 | -9.8 | 2.90 | 0.0 |
| 14.0 | -12.1 | .00 | -19.9 | -10.3 | 2.57 | -0.5 |
| 14.5 | -7.7 | .00 | -12.4 | -8.9 | 3.13 | 0.2 |
| 15.0 | -6.0 | .00 | -21.8 | -7.7 | 2.81 | -0.2 |
| 15.5 | -6.6 | .00 | -21.7 | -8.3 | 2.96 | 0.0 |
| 16.0 | -8.8 | .00 | -23.0 | -8.8 | 2.74 | -0.3 |
| 16.5 | -7.4 | .00 | -19.2 | -8.6 | 2.92 | 0.0 |
| 17.0 | -9.7 | .00 | -27.2 | -8.6 | 2.80 | -0.2 |
| 17.5 | -8.9 | .00 | -19.9 | -9.0 | 2.86 | -0.2 |
| 18.0 | -4.9 | .00 | -19.7 | -7.7 | 2.88 | 0.0 |
| 18.5 | -5.6 | .00 | -22.1 | -7.6 | 2.88 | 0.0 |
| 19.0 | -6.6 | .00 | -17.9 | -8.4 | 3.10 | 0.1 |
| 19.5 | -5.3 | .00 | -16.7 | -8.3 | 3.01 | 0.0 |
| 20.0 | -5.5 | .00 | -18.0 | -8.6 | 2.84 | -0.2 |
| 20.5 | -6.1 | .00 | -20.9 | -8.3 | 2.90 | 0.0 |
| 21.0 | -6.5 | .00 | -19.6 | -8.5 | 3.01 | 0.0 |
| 21.5 | -3.7 | .00 | -18.4 | -6.7 | 3.19 | 0.2 |
| 22.0 | -3.9 | .00 | -21.2 | -6.0 | 2.93 | 0.0 |
| 22.5 | -4.1 | .00 | -21.4 | -6.6 | 2.87 | 0.0 |
| 23.0 | -4.4 | .08 | -10.9 | -6.5 | 2.81 | -0.2 |
| 23.5 | -2.4 | .07 | -11.3 | -4.4 | 3.38 | 0.4 |
| 24.0 | -1.9 | .00 | -17.9 | -4.8 | 3.01 | 0.0 |
| 24.5 | -1.6 | .00 | -21.5 | -5.0 | 2.92 | 0.0 |
| 25.0 | -2.3 | .00 | -19.4 | -4.8 | 3.11 | 0.1 |

MAN-ACOUSTICS #9: DC-8 TAKEOFF

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -1.2 | .00 | -19.6 | -3.8 | 3.08 | 0.1 |
| 26.0 | -3.9 | .00 | -27.1 | -5.6 | 3.11 | 0.1 |
| 26.5 | -2.2 | .00 | -27.3 | -5.8 | 2.99 | 0.0 |
| 27.0 | -2.3 | .00 | -22.2 | -4.4 | 2.88 | 0.0 |
| 27.5 | -3.4 | .00 | -21.8 | -4.7 | 2.92 | 0.0 |
| 28.0 | -2.4 | .00 | -23.9 | -5.3 | 2.92 | 0.0 |
| 28.5 | -3.1 | .00 | -22.5 | -5.4 | 2.94 | 0.0 |
| 29.0 | -2.1 | .00 | -19.7 | -4.8 | 3.02 | 0.0 |
| 29.5 | -3.0 | .00 | -22.4 | -5.4 | 2.96 | 0.0 |
| 30.0 | -2.5 | .00 | -21.6 | -5.3 | 2.80 | -0.2 |
| 30.5 | -1.4 | .00 | -21.0 | -4.7 | 2.99 | 0.0 |
| 31.0 | -2.3 | .00 | -21.5 | -5.0 | 3.00 | 0.0 |
| 31.5 | -1.5 | .00 | -17.5 | -4.1 | 3.06 | 0.1 |
| 32.0 | -1.1 | .00 | -13.7 | -4.2 | 2.90 | 0.0 |
| 32.5 | -1.0 | .00 | -13.9 | -3.9 | 2.97 | 0.0 |
| 33.0 | -1.8 | .00 | -21.1 | -4.3 | 3.02 | 0.0 |
| 33.5 | -3.2 | .00 | -21.7 | -5.6 | 2.80 | -0.2 |
| 34.0 | -1.7 | .00 | -14.6 | -4.6 | 2.91 | 0.0 |
| 34.5 | -2.1 | .00 | -25.9 | -5.6 | 2.84 | -0.2 |
| 35.0 | -1.5 | .00 | -23.0 | -4.6 | 3.02 | 0.0 |
| 35.5 | -2.8 | .00 | -22.9 | -4.4 | 3.22 | 0.3 |
| 36.0 | -1.2 | .00 | -22.4 | -4.4 | 3.11 | 0.1 |
| 36.5 | -0.3 | .00 | -29.5 | -3.7 | 2.91 | 0.0 |
| 37.0 | -0.5 | .00 | -21.1 | -3.5 | 3.06 | 0.1 |
| 37.5 | -1.7 | .00 | -18.6 | -4.0 | 2.78 | -0.2 |
| 38.0 | -3.8 | .00 | -20.2 | -6.2 | 3.05 | 0.1 |
| 38.5 | -2.0 | .00 | -24.2 | -5.4 | 3.03 | 0.0 |
| 39.0 | -1.6 | .00 | -19.4 | -3.7 | 3.17 | 0.2 |
| 39.5 | -2.7 | .00 | -18.5 | -4.7 | 3.22 | 0.3 |
| 40.0 | -0.9 | .00 | -25.8 | -4.0 | 2.72 | -0.3 |
| 40.5 | -1.4 | .00 | -23.4 | -4.5 | 2.86 | -0.2 |
| 41.0 | -0.8 | .00 | -24.0 | -2.9 | 3.10 | 0.1 |
| 41.5 | 0.0 | .00 | -22.9 | -3.0 | 3.05 | 0.1 |
| 42.0 | -1.1 | .00 | -18.4 | -3.0 | 3.17 | 0.2 |
| 42.5 | -2.1 | .00 | -13.6 | -3.7 | 2.89 | 0.0 |
| 43.0 | -1.6 | .00 | -24.0 | -2.9 | 2.73 | -0.3 |
| 43.5 | -1.1 | .00 | -23.5 | -3.2 | 2.68 | -0.4 |
| 44.0 | -0.8 | .00 | -18.9 | -2.1 | 2.77 | -0.3 |
| 44.5 | -1.8 | .00 | -19.1 | -2.6 | 3.00 | 0.0 |
| 45.0 | -2.8 | .00 | -18.3 | -2.5 | 3.09 | 0.1 |
| 45.5 | -1.4 | .00 | -20.7 | -1.4 | 2.95 | 0.0 |
| 46.0 | -1.0 | .00 | -21.0 | -1.0 | 3.06 | 0.1 |
| 46.5 | -3.9 | .00 | -15.3 | -1.9 | 3.04 | 0.1 |
| 47.0 | -3.9 | .00 | -18.2 | -1.9 | 2.79 | -0.2 |
| 47.5 | -3.9 | .00 | -19.3 | -3.1 | 3.03 | 0.0 |
| 48.0 | -6.2 | .00 | -22.6 | -4.0 | 2.86 | -0.2 |
| 48.5 | -4.5 | .00 | -12.5 | -2.4 | 3.00 | 0.0 |
| 49.0 | -2.5 | .00 | -14.1 | -1.4 | 2.82 | -0.2 |
| 49.5 | -4.2 | .00 | -22.3 | -2.4 | 2.93 | 0.0 |
| 50.0 | -4.2 | .00 | -19.7 | -1.7 | 2.73 | -0.3 |

MAN-ACOUSTICS #9. DC-8 TAKEOFF

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 50.5 | -6.1 | .00 | -18.2 | -1.7 | 2.92 | 0.0 |
| 51.0 | -4.1 | .00 | -15.6 | -1.6 | 2.89 | 0.0 |
| 51.5 | -5.4 | .00 | -14.0 | -1.0 | 2.81 | -0.2 |
| 52.0 | -7.1 | .00 | -12.8 | 0.0 | 2.56 | -0.5 |
| 52.5 | -6.2 | .00 | -14.7 | -0.4 | 2.66 | -0.4 |
| 53.0 | -5.6 | .00 | -17.7 | -0.8 | 2.72 | -0.3 |
| 53.5 | -5.2 | .00 | -18.0 | -0.9 | 2.62 | -0.4 |
| 54.0 | -5.2 | .00 | -15.9 | -0.4 | 2.62 | -0.4 |
| 54.5 | -4.4 | .00 | -16.8 | -0.8 | 2.85 | -0.2 |
| 55.0 | -4.8 | .00 | -19.4 | -0.9 | 2.65 | -0.4 |
| 55.5 | -6.2 | .00 | -19.8 | -0.8 | 2.71 | -0.3 |
| 56.0 | -6.2 | .00 | -15.5 | -1.2 | 2.72 | -0.3 |
| 56.5 | -7.0 | .00 | -19.8 | -2.1 | 2.65 | -0.4 |
| 57.0 | -7.6 | .00 | -14.8 | -2.0 | 2.77 | -0.3 |
| 57.5 | -7.7 | .00 | -13.8 | -1.9 | 2.58 | -0.5 |
| 58.0 | -7.3 | .00 | -12.2 | -0.8 | 2.79 | -0.2 |
| 58.5 | -7.4 | .07 | -11.0 | -0.9 | 2.71 | -0.3 |
| 59.0 | -7.1 | .00 | -18.2 | -1.8 | 2.64 | -0.4 |
| 59.5 | -9.1 | .00 | -12.4 | -2.4 | 2.69 | -0.3 |
| 60.0 | -12.0 | .00 | -14.6 | -2.9 | 3.02 | 0.0 |
| 60.5 | -11.1 | .00 | -15.0 | -2.9 | 2.50 | -0.6 |

MAN-ACOUSTICS #10: BOEING 747 APPROACH

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -42.8 | .00 | -27.2 | -37.6 | 2.61 | -0.4 |
| 1.0 | -41.2 | .00 | -20.4 | -36.3 | 2.55 | -0.5 |
| 1.5 | -35.2 | .00 | -13.5 | -31.0 | 3.32 | 0.4 |
| 2.0 | -30.9 | .00 | -16.5 | -27.6 | 3.05 | 0.1 |
| 2.5 | -28.7 | .00 | -23.2 | -26.2 | 3.21 | 0.3 |
| 3.0 | -28.1 | .00 | -24.3 | -25.6 | 2.89 | 0.0 |
| 3.5 | -25.4 | .00 | -19.0 | -23.3 | 3.04 | 0.1 |
| 4.0 | -22.5 | .00 | -18.9 | -20.7 | 2.96 | 0.0 |
| 4.5 | -20.6 | .08 | -11.0 | -18.4 | 3.23 | 0.3 |
| 5.0 | -14.3 | .00 | -12.8 | -11.8 | 3.83 | 1.0 |
| 5.5 | -9.9 | .00 | -20.1 | -8.4 | 2.98 | 0.0 |
| 6.0 | -9.5 | .00 | -23.3 | -8.6 | 3.06 | 0.1 |
| 6.5 | -10.3 | .00 | -23.6 | -9.3 | 2.94 | 0.0 |
| 7.0 | -10.6 | .00 | -24.0 | -9.6 | 3.02 | 0.0 |
| 7.5 | -10.2 | .00 | -25.7 | -9.4 | 3.13 | 0.2 |
| 8.0 | -9.8 | .00 | -23.5 | -9.3 | 2.93 | 0.0 |
| 8.5 | -9.6 | .00 | -22.4 | -9.0 | 3.22 | 0.3 |
| 9.0 | -7.8 | .00 | -23.6 | -7.3 | 2.90 | 0.0 |
| 9.5 | -9.0 | .00 | -19.4 | -8.3 | 2.95 | 0.0 |
| 10.0 | -8.6 | .00 | -26.4 | -7.7 | 3.13 | 0.1 |
| 10.5 | -8.5 | .00 | -26.4 | -7.6 | 2.94 | 0.0 |
| 11.0 | -9.3 | .00 | -21.0 | -7.6 | 3.07 | 0.1 |
| 11.5 | -8.6 | .00 | -23.3 | -7.3 | 2.94 | 0.0 |
| 12.0 | -6.0 | .00 | -18.8 | -5.5 | 3.12 | 0.1 |
| 12.5 | -2.9 | .00 | -27.1 | -2.9 | 2.87 | 0.0 |
| 13.0 | -4.9 | .00 | -22.7 | -3.9 | 3.12 | 0.1 |
| 13.5 | -5.8 | .00 | -23.5 | -5.0 | 2.94 | 0.0 |
| 14.0 | -4.6 | .00 | -17.5 | -5.1 | 3.02 | 0.0 |
| 14.5 | -3.2 | .00 | -16.5 | -3.2 | 2.90 | 0.0 |
| 15.0 | -2.5 | .00 | -18.7 | -3.2 | 3.00 | 0.0 |
| 15.5 | -3.5 | .00 | -12.5 | -4.7 | 2.99 | 0.0 |
| 16.0 | -3.5 | .00 | -18.2 | -4.5 | 2.80 | -0.2 |
| 16.5 | -2.1 | .00 | -20.0 | -3.4 | 2.85 | -0.2 |
| 17.0 | -3.3 | .00 | -18.9 | -4.0 | 2.93 | 0.0 |
| 17.5 | -1.8 | .00 | -24.0 | -3.1 | 2.84 | -0.2 |
| 18.0 | -2.5 | .00 | -23.9 | -3.5 | 2.96 | 0.0 |
| 18.5 | -3.1 | .00 | -24.8 | -4.2 | 2.83 | -0.2 |
| 19.0 | -2.1 | .00 | -21.3 | -3.3 | 2.99 | 0.0 |
| 19.5 | -2.5 | .00 | -27.6 | -3.3 | 3.00 | 0.0 |
| 20.0 | -2.8 | .00 | -22.4 | -3.4 | 2.89 | 0.0 |
| 20.5 | -2.4 | .00 | -25.7 | -2.9 | 2.87 | 0.0 |
| 21.0 | -2.7 | .00 | -25.3 | -2.6 | 3.00 | 0.0 |
| 21.5 | -2.1 | .00 | -23.5 | -1.6 | 2.93 | 0.0 |
| 22.0 | -1.0 | .00 | -23.6 | -0.6 | 2.85 | -0.2 |
| 22.5 | 0.0 | .00 | -21.5 | 0.0 | 2.86 | -0.2 |
| 23.0 | -1.0 | .00 | -23.5 | -0.7 | 2.84 | -0.2 |
| 23.5 | -1.6 | .00 | -25.7 | -0.6 | 2.87 | 0.0 |
| 24.0 | -1.0 | .00 | -22.7 | -0.6 | 2.83 | -0.2 |
| 24.5 | -1.2 | .00 | -24.9 | -0.4 | 2.96 | 0.0 |
| 25.0 | -1.1 | .00 | -24.4 | -0.4 | 2.82 | -0.2 |

MAN-ACOUSTICS #10: BOEING 747 APPROACH

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -2.2 | .00 | -24.4 | -0.9 | 2.97 | 0.0 |
| 26.0 | -2.6 | .00 | -22.7 | -1.7 | 2.91 | 0.0 |
| 26.5 | -2.5 | .00 | -29.4 | -2.1 | 2.98 | 0.0 |
| 27.0 | -1.2 | .00 | -15.6 | -1.1 | 2.80 | -0.2 |
| 27.5 | -3.1 | .00 | -16.4 | -2.5 | 2.96 | 0.0 |
| 28.0 | -3.9 | .00 | -26.3 | -2.9 | 2.83 | -0.2 |
| 28.5 | -5.2 | .00 | -27.1 | -4.2 | 3.20 | 0.2 |
| 29.0 | -5.4 | .00 | -16.8 | -4.5 | 2.98 | 0.0 |
| 29.5 | -5.8 | .00 | -20.3 | -4.4 | 2.88 | 0.0 |
| 30.0 | -6.6 | .00 | -17.3 | -4.9 | 2.98 | 0.0 |
| 30.5 | -7.4 | .00 | -24.9 | -5.4 | 2.96 | 0.0 |
| 31.0 | -7.6 | .00 | -25.9 | -5.7 | 3.15 | 0.2 |
| 31.5 | -9.0 | .00 | -23.2 | -6.0 | 3.01 | 0.0 |
| 32.0 | -10.6 | .00 | -22.2 | -6.9 | 2.84 | -0.2 |
| 32.5 | -10.2 | .00 | -19.0 | -5.9 | 3.10 | 0.1 |
| 33.0 | -9.5 | .00 | -25.5 | -5.7 | 3.00 | 0.0 |
| 33.5 | -9.0 | .00 | -21.9 | -5.7 | 2.79 | -0.2 |
| 34.0 | -8.6 | .00 | -19.4 | -6.7 | 3.03 | 0.0 |
| 34.5 | -9.2 | .00 | -22.4 | -6.4 | 2.80 | -0.2 |
| 35.0 | -10.4 | .00 | -22.4 | -6.9 | 3.27 | 0.3 |
| 35.5 | -10.9 | .00 | -23.1 | -7.3 | 2.93 | 0.0 |
| 36.0 | -11.0 | .00 | -25.4 | -7.8 | 2.95 | 0.0 |
| 36.5 | -12.1 | .00 | -23.4 | -8.3 | 2.90 | 0.0 |
| 37.0 | -13.1 | .00 | -23.7 | -7.9 | 2.99 | 0.0 |
| 37.5 | -13.1 | .00 | -24.7 | -8.8 | 3.04 | 0.1 |
| 38.0 | -13.2 | .00 | -25.0 | -7.8 | 3.02 | 0.0 |
| 38.5 | -13.7 | .00 | -24.6 | -8.8 | 2.87 | 0.0 |
| 39.0 | -12.9 | .00 | -23.0 | -8.7 | 2.78 | -0.2 |
| 39.5 | -12.7 | .00 | -20.1 | -9.0 | 3.06 | 0.1 |
| 40.0 | -14.1 | .00 | -24.3 | -8.4 | 2.96 | 0.0 |
| 40.5 | -14.2 | .00 | -23.9 | -9.0 | 2.81 | -0.2 |
| 41.0 | -13.9 | .00 | -21.9 | -8.5 | 2.77 | -0.3 |
| 41.5 | -14.0 | .00 | -22.1 | -8.5 | 2.70 | -0.3 |
| 42.0 | -14.6 | .00 | -24.6 | -8.4 | 2.91 | 0.0 |
| 42.5 | -13.8 | .00 | -23.0 | -8.1 | 3.01 | 0.0 |
| 43.0 | -13.3 | .00 | -26.9 | -9.0 | 3.01 | 0.0 |
| 43.5 | -13.5 | .00 | -20.9 | -9.8 | 3.05 | 0.1 |
| 44.0 | -15.4 | .00 | -18.3 | -11.7 | 3.20 | 0.2 |
| 44.5 | -18.2 | .00 | -18.1 | -14.5 | 2.73 | -0.3 |
| 45.0 | -21.6 | .00 | -17.3 | -16.5 | 2.92 | 0.0 |
| 45.5 | -26.0 | .00 | -19.8 | -21.3 | 3.16 | 0.2 |
| 46.0 | -26.5 | .00 | -21.7 | -20.8 | 3.02 | 0.0 |

MAN-ACOUSTICS #11: DC-8 APPROACH

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -31.1 | .00 | -21.8 | -22.5 | 3.04 | 0.1 |
| 1.0 | -27.7 | .00 | -13.1 | -19.4 | 3.24 | 0.3 |
| 1.5 | -21.5 | .00 | -15.2 | -14.3 | 2.94 | 0.0 |
| 2.0 | -18.5 | .00 | -21.9 | -11.4 | 2.92 | 0.0 |
| 2.5 | -13.5 | .00 | -14.2 | -6.2 | 3.24 | 0.3 |
| 3.0 | -12.0 | .00 | -13.4 | -5.0 | 2.94 | 0.0 |
| 3.5 | -10.6 | .00 | -18.7 | -4.0 | 2.97 | 0.0 |
| 4.0 | -10.0 | .00 | -15.4 | -3.8 | 3.13 | 0.2 |
| 4.5 | -11.4 | .00 | -24.0 | -5.4 | 2.93 | 0.0 |
| 5.0 | -9.9 | .00 | -23.0 | -4.8 | 2.81 | -0.2 |
| 5.5 | -8.5 | .00 | -18.3 | -5.0 | 3.10 | 0.1 |
| 6.0 | -10.5 | .00 | -19.0 | -4.9 | 3.02 | 0.0 |
| 6.5 | -9.7 | .00 | -17.0 | -4.7 | 3.09 | 0.1 |
| 7.0 | -7.8 | .00 | -19.8 | -4.3 | 3.02 | 0.0 |
| 7.5 | -7.9 | .00 | -20.1 | -4.4 | 2.80 | -0.2 |
| 8.0 | -6.8 | .00 | -19.5 | -3.6 | 3.14 | 0.2 |
| 8.5 | -4.6 | .00 | -21.3 | -3.3 | 2.98 | 0.0 |
| 9.0 | -4.1 | .00 | -20.4 | -4.0 | 3.32 | 0.4 |
| 9.5 | -4.8 | .00 | -16.6 | -3.5 | 3.16 | 0.2 |
| 10.0 | -5.1 | .00 | -13.6 | -1.9 | 3.09 | 0.1 |
| 10.5 | -3.3 | .00 | -22.0 | -2.4 | 2.89 | 0.0 |
| 11.0 | -3.8 | .00 | -23.4 | -2.4 | 3.06 | 0.1 |
| 11.5 | -4.3 | .00 | -20.1 | -3.2 | 3.14 | 0.2 |
| 12.0 | -3.4 | .00 | -19.3 | -2.2 | 2.98 | 0.0 |
| 12.5 | -3.2 | .00 | -20.9 | -2.0 | 3.05 | 0.1 |
| 13.0 | -2.2 | .00 | -16.1 | -2.1 | 3.29 | 0.3 |
| 13.5 | -2.3 | .00 | -14.7 | -2.2 | 3.01 | 0.0 |
| 14.0 | -1.2 | .00 | -16.4 | -1.7 | 3.02 | 0.0 |
| 14.5 | -0.7 | .00 | -19.9 | -1.9 | 2.96 | 0.0 |
| 15.0 | -1.0 | .00 | -19.8 | -1.4 | 3.06 | 0.1 |
| 15.5 | 0.0 | .00 | -22.0 | -1.2 | 2.82 | -0.2 |
| 16.0 | -0.3 | .00 | -17.8 | 0.0 | 2.98 | 0.0 |
| 16.5 | 0.0 | .00 | -13.3 | -0.9 | 2.87 | 0.0 |
| 17.0 | -1.4 | .00 | -12.3 | -0.7 | 3.00 | 0.0 |
| 17.5 | -3.1 | .00 | -21.6 | -1.4 | 2.94 | 0.0 |
| 18.0 | -6.2 | .00 | -19.4 | -2.0 | 3.02 | 0.0 |
| 18.5 | -5.1 | .00 | -20.3 | -1.3 | 3.05 | 0.1 |
| 19.0 | -5.7 | .00 | -22.4 | -0.8 | 3.08 | 0.1 |
| 19.5 | -7.0 | .00 | -21.3 | -1.6 | 2.88 | 0.0 |
| 20.0 | -6.9 | .00 | -14.7 | -1.7 | 2.97 | 0.0 |
| 20.5 | -7.3 | .00 | -16.8 | -2.7 | 3.03 | 0.0 |
| 21.0 | -10.5 | .00 | -20.4 | -1.4 | 2.79 | -0.2 |
| 21.5 | -11.4 | .00 | -21.9 | -0.2 | 2.77 | -0.3 |
| 22.0 | -10.6 | .00 | -18.1 | -1.0 | 3.44 | 0.5 |
| 22.5 | -11.2 | .00 | -18.3 | -1.3 | 2.86 | 0.0 |
| 23.0 | -12.5 | .00 | -22.3 | -0.8 | 2.70 | -0.3 |
| 23.5 | -13.4 | .00 | -19.6 | -1.1 | 3.18 | 0.2 |
| 24.0 | -13.7 | .00 | -20.2 | -1.4 | 3.01 | 0.0 |
| 24.5 | -13.5 | .00 | -22.9 | -0.9 | 2.82 | -0.2 |
| 25.0 | -14.6 | .00 | -25.0 | 0.0 | 2.62 | -0.4 |

MAN-ACOUSTICS #11: DC-8 APPROACH

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -14.3 | .00 | -21.9 | -0.6 | 2.99 | 0.0 |
| 26.0 | -13.8 | .00 | -20.8 | -1.6 | 2.73 | -0.3 |
| 26.5 | -12.8 | .00 | -20.8 | -2.2 | 2.64 | -0.4 |
| 27.0 | -14.1 | .00 | -21.1 | -1.7 | 2.98 | 0.0 |
| 27.5 | -14.7 | .00 | -23.8 | -1.5 | 3.00 | 0.0 |
| 28.0 | -15.1 | .00 | -24.7 | -1.7 | 3.01 | 0.0 |
| 28.5 | -15.2 | .00 | -25.0 | -1.7 | 2.95 | 0.0 |
| 29.0 | -14.4 | .00 | -22.0 | -2.6 | 3.09 | 0.1 |

MAN-ACOUSTICS #12: BRITTEN-NORMAN ISLANDER - TAKEOFF SMALL RECIP

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -14.4 | .00 | -19.2 | -7.6 | 2.50 | -0.6 |
| 1.0 | -12.1 | .00 | -23.7 | -6.2 | 2.26 | -0.8 |
| 1.5 | -10.5 | .00 | -23.1 | -8.4 | 2.52 | -0.5 |
| 2.0 | -11.0 | .00 | -22.9 | -10.7 | 2.42 | -0.7 |
| 2.5 | -10.7 | .00 | -26.5 | -9.9 | 2.65 | -0.4 |
| 3.0 | -10.2 | .00 | -18.3 | -8.4 | 2.38 | -0.7 |
| 3.5 | -8.6 | .00 | -17.5 | -6.7 | 2.14 | -1.0 |
| 4.0 | -7.1 | .00 | -15.6 | -3.7 | 2.52 | -0.5 |
| 4.5 | -6.5 | .00 | -18.3 | -5.3 | 2.83 | -0.2 |
| 5.0 | -5.1 | .00 | -23.2 | -6.1 | 3.09 | 0.1 |
| 5.5 | -4.9 | .00 | -28.7 | -6.2 | 2.82 | -0.2 |
| 6.0 | -3.6 | .00 | -23.7 | -5.2 | 2.89 | 0.0 |
| 6.5 | -1.9 | .00 | -21.8 | -4.5 | 3.68 | 0.8 |
| 7.0 | -0.8 | .00 | -33.5 | -2.8 | 2.95 | 0.0 |
| 7.5 | -0.6 | .00 | -30.8 | -2.0 | 3.18 | 0.2 |
| 8.0 | 0.0 | .00 | -27.4 | -1.0 | 2.86 | -0.2 |
| 8.5 | -0.5 | .00 | -25.4 | -0.4 | 2.51 | -0.5 |
| 9.0 | -0.9 | .00 | -17.4 | 0.0 | 2.46 | -0.6 |
| 9.5 | -3.7 | .00 | -23.7 | -1.4 | 2.29 | -0.8 |
| 10.0 | -4.1 | .00 | -23.8 | -2.3 | 2.12 | -1.0 |
| 10.5 | -5.1 | .00 | -25.5 | -3.2 | 2.30 | -0.8 |
| 11.0 | -4.8 | .00 | -26.7 | -3.3 | 2.58 | -0.5 |
| 11.5 | -5.1 | .00 | -22.7 | -3.6 | 2.53 | -0.5 |
| 12.0 | -5.6 | .00 | -17.9 | -6.9 | 2.94 | 0.0 |
| 12.5 | -6.2 | .00 | -16.4 | -7.5 | 3.08 | 0.1 |
| 13.0 | -5.4 | .00 | -13.6 | -9.4 | 3.33 | 0.4 |
| 13.5 | -6.2 | .00 | -20.3 | -9.2 | 2.88 | 0.0 |
| 14.0 | -6.6 | .00 | -22.1 | -7.8 | 2.66 | -0.4 |
| 14.5 | -6.4 | .00 | -23.9 | -7.1 | 2.61 | -0.4 |
| 15.0 | -6.9 | .00 | -21.6 | -7.0 | 2.54 | -0.5 |
| 15.5 | -6.5 | .00 | -23.8 | -7.8 | 2.85 | -0.2 |
| 16.0 | -7.0 | .00 | -22.9 | -7.3 | 3.31 | 0.4 |
| 16.5 | -7.2 | .00 | -23.1 | -8.7 | 3.27 | 0.3 |
| 17.0 | -7.6 | .00 | -17.2 | -8.5 | 3.32 | 0.4 |
| 17.5 | -8.1 | .00 | -17.3 | -9.4 | 2.92 | 0.0 |
| 18.0 | -8.8 | .00 | -18.5 | -8.6 | 2.70 | -0.3 |
| 18.5 | -9.5 | .00 | -23.7 | -6.9 | 2.58 | -0.5 |
| 19.0 | -9.4 | .00 | -20.9 | -6.9 | 2.71 | -0.3 |
| 19.5 | -10.8 | .00 | -19.1 | -8.5 | 2.47 | -0.6 |
| 20.0 | -13.4 | .00 | -17.9 | -8.8 | 2.43 | -0.6 |
| 20.5 | -11.8 | .00 | -26.2 | -8.9 | 2.42 | -0.7 |
| 21.0 | -12.5 | .00 | -26.5 | -9.3 | 2.53 | -0.5 |

MAN-ACOUSTICS #13: CONVAIR 640 - TAKEOFF MEDIUM TURBOPROP

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -22.5 | .00 | -22.1 | -21.5 | 2.45 | -0.6 |
| 1.0 | -20.5 | .00 | -16.3 | -20.3 | 2.52 | -0.5 |
| 1.5 | -12.4 | .00 | -14.4 | -14.8 | 3.05 | 0.1 |
| 2.0 | -9.3 | .00 | -18.7 | -7.7 | 2.32 | -0.8 |
| 2.5 | -7.3 | .00 | -16.1 | -8.3 | 2.26 | -0.8 |
| 3.0 | -7.6 | .00 | -12.9 | -9.5 | 2.37 | -0.7 |
| 3.5 | -6.0 | .00 | -18.8 | -8.9 | 2.86 | -0.2 |
| 4.0 | -7.0 | .00 | -21.5 | -7.3 | 2.44 | -0.6 |
| 4.5 | -6.0 | .00 | -22.0 | -7.4 | 2.70 | -0.3 |
| 5.0 | -3.7 | .00 | -22.9 | -7.1 | 2.85 | -0.2 |
| 5.5 | -5.0 | .00 | -22.4 | -8.7 | 3.12 | 0.1 |
| 6.0 | -4.5 | .00 | -23.6 | -6.1 | 2.74 | -0.3 |
| 6.5 | -3.6 | .00 | -24.0 | -5.8 | 2.86 | -0.2 |
| 7.0 | -3.7 | .00 | -29.7 | -5.4 | 2.59 | -0.5 |
| 7.5 | -2.7 | .00 | -22.5 | -4.5 | 2.75 | -0.3 |
| 8.0 | -3.2 | .00 | -22.2 | -5.0 | 2.59 | -0.5 |
| 8.5 | -1.9 | .00 | -27.5 | -3.2 | 2.42 | -0.7 |
| 9.0 | -1.7 | .00 | -22.9 | -2.5 | 2.46 | -0.6 |
| 9.5 | -0.7 | .00 | -27.0 | -1.7 | 2.20 | -0.9 |
| 10.0 | 0.0 | .00 | -27.3 | 0.0 | 2.11 | -1.0 |
| 10.5 | -1.3 | .00 | -24.9 | -0.3 | 2.20 | -0.9 |
| 11.0 | -2.0 | .00 | -29.3 | -1.7 | 2.75 | -0.3 |
| 11.5 | -1.2 | .00 | -29.4 | -1.1 | 2.88 | 0.0 |
| 12.0 | -2.6 | .00 | -18.7 | -0.7 | 2.79 | -0.2 |
| 12.5 | -3.6 | .00 | -21.3 | -1.7 | 2.24 | -0.9 |
| 13.0 | -4.4 | .00 | -25.3 | -0.8 | 2.24 | -0.9 |
| 13.5 | -3.9 | .00 | -23.3 | -2.3 | 2.43 | -0.6 |
| 14.0 | -4.5 | .00 | -26.6 | -3.4 | 2.54 | -0.5 |
| 14.5 | -4.0 | .00 | -22.8 | -5.6 | 2.93 | 0.0 |
| 15.0 | -4.6 | .00 | -21.8 | -7.4 | 3.03 | 0.0 |
| 15.5 | -6.0 | .00 | -23.7 | -6.3 | 2.35 | -0.7 |
| 16.0 | -6.7 | .00 | -24.0 | -5.9 | 2.59 | -0.5 |
| 16.5 | -6.7 | .00 | -15.4 | -6.3 | 2.57 | -0.5 |
| 17.0 | -7.8 | .00 | -23.3 | -8.0 | 2.89 | 0.0 |
| 17.5 | -6.3 | .00 | -19.1 | -9.7 | 2.82 | -0.2 |
| 18.0 | -7.5 | .00 | -21.3 | -9.0 | 2.84 | -0.2 |
| 18.5 | -8.1 | .00 | -22.5 | -8.1 | 2.56 | -0.5 |
| 19.0 | -8.1 | .00 | -21.4 | -8.9 | 2.45 | -0.6 |
| 19.5 | -8.9 | .00 | -19.5 | -8.5 | 2.61 | -0.4 |
| 20.0 | -9.2 | .00 | -20.4 | -8.9 | 2.90 | 0.0 |
| 20.5 | -10.2 | .00 | -22.4 | -9.2 | 2.82 | -0.2 |
| 21.0 | -10.4 | .00 | -20.5 | -8.3 | 2.40 | -0.7 |
| 21.5 | -10.3 | .00 | -22.4 | -9.3 | 2.48 | -0.6 |
| 22.0 | -10.8 | .00 | -18.7 | -8.3 | 2.22 | -0.9 |
| 22.5 | -11.5 | .00 | -19.3 | -8.4 | 2.27 | -0.8 |
| 23.0 | -11.8 | .00 | -20.7 | -9.6 | 2.40 | -0.7 |
| 23.5 | -11.4 | .00 | -23.3 | -11.4 | 2.97 | 0.0 |

MAN-ACOUSTICS #14: CHINOOK CH 47-A - LEVEL FLYOVER AT 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -20.0 | 12.93 | 11.1 | -23.1 | 13.82 | 12.4 |
| 1.0 | -16.2 | 16.36 | 12.1 | -20.8 | 20.53 | 20.0 |
| 1.5 | -14.6 | 29.35 | 14.7 | -18.8 | 27.32 | 27.8 |
| 2.0 | -8.9 | 16.75 | 12.2 | -13.8 | 16.56 | 15.5 |
| 2.5 | -7.5 | 14.80 | 11.7 | -12.2 | 9.20 | 7.1 |
| 3.0 | -7.2 | 11.97 | 10.8 | -11.4 | 6.65 | 4.2 |
| 3.5 | -5.6 | 15.08 | 11.8 | -10.6 | 8.45 | 6.2 |
| 4.0 | -5.6 | 7.11 | 8.5 | -10.3 | 6.94 | 4.5 |
| 4.5 | -7.8 | 5.27 | 7.2 | -10.2 | 4.05 | 1.2 |
| 5.0 | -9.8 | 1.74 | 2.4 | -9.2 | 2.85 | -0.2 |
| 5.5 | -12.3 | 1.91 | 2.8 | -8.5 | 2.53 | -0.5 |
| 6.0 | -11.3 | 2.09 | 3.2 | -7.8 | 2.35 | -0.7 |
| 6.5 | -10.0 | 3.00 | 4.8 | -7.4 | 2.60 | -0.5 |
| 7.0 | -11.5 | 1.24 | 0.9 | -7.5 | 2.83 | -0.2 |
| 7.5 | -11.9 | 1.30 | 1.2 | -7.1 | 3.16 | 0.2 |
| 8.0 | -13.0 | .92 | -0.3 | -7.4 | 3.46 | 0.5 |
| 8.5 | -13.7 | .63 | -2.0 | -7.0 | 3.24 | 0.3 |
| 9.0 | -13.7 | .49 | -3.1 | -6.6 | 2.96 | 0.0 |
| 9.5 | -13.9 | .64 | -1.9 | -6.6 | 3.08 | 0.1 |
| 10.0 | -11.4 | 1.15 | 0.6 | -6.2 | 3.29 | 0.3 |
| 10.5 | -9.5 | 1.54 | 1.9 | -6.3 | 3.68 | 0.8 |
| 11.0 | -9.4 | .80 | -0.9 | -6.4 | 3.73 | 0.8 |
| 11.5 | -9.5 | 1.05 | 0.2 | -6.1 | 3.74 | 0.9 |
| 12.0 | -10.0 | 1.28 | 1.1 | -6.1 | 4.18 | 1.3 |
| 12.5 | -7.8 | 2.87 | 4.6 | -6.3 | 4.04 | 1.2 |
| 13.0 | -6.0 | 6.64 | 8.2 | -5.3 | 5.44 | 2.8 |
| 13.5 | -6.4 | 5.20 | 7.2 | -5.8 | 4.56 | 1.8 |
| 14.0 | -7.9 | .79 | -1.0 | -5.5 | 3.39 | 0.5 |
| 14.5 | -8.4 | 1.07 | 0.3 | -5.2 | 3.34 | 0.4 |
| 15.0 | -8.2 | .72 | -1.4 | -5.5 | 3.33 | 0.4 |
| 15.5 | -7.2 | 1.05 | 0.2 | -5.7 | 3.72 | 0.8 |
| 16.0 | -7.5 | 1.27 | 1.1 | -5.9 | 2.99 | 0.0 |
| 16.5 | -8.1 | .47 | -3.2 | -6.0 | 2.72 | -0.3 |
| 17.0 | -6.5 | 1.29 | 1.1 | -5.5 | 4.45 | 1.7 |
| 17.5 | -3.4 | 3.84 | 5.9 | -4.8 | 6.95 | 4.5 |
| 18.0 | -3.3 | 7.61 | 8.8 | -4.1 | 8.73 | 6.6 |
| 18.5 | -2.4 | 6.27 | 8.0 | -4.0 | 10.31 | 8.4 |
| 19.0 | -2.9 | 1.22 | 0.9 | -3.7 | 7.19 | 4.8 |
| 19.5 | -2.3 | 1.99 | 3.0 | -3.1 | 9.55 | 7.5 |
| 20.0 | -1.9 | 6.72 | 8.3 | -1.8 | 11.69 | 9.9 |
| 20.5 | -0.6 | 4.65 | 6.7 | -1.9 | 12.03 | 10.3 |
| 21.0 | -1.0 | 4.32 | 6.4 | -0.9 | 8.76 | 6.6 |
| 21.5 | -0.7 | 2.23 | 3.5 | -0.7 | 8.07 | 5.8 |
| 22.0 | 0.0 | 2.24 | 3.5 | -0.5 | 7.91 | 5.6 |
| 22.5 | -0.7 | 1.38 | 1.4 | -0.2 | 7.48 | 5.1 |
| 23.0 | -1.1 | 1.43 | 1.6 | 0.0 | 8.22 | 6.0 |
| 23.5 | -1.9 | .79 | -1.0 | 0.0 | 7.22 | 4.8 |
| 24.0 | -3.0 | .60 | -2.2 | -0.9 | 6.50 | 4.0 |
| 24.5 | -3.8 | .20 | -7.0 | -0.9 | 5.24 | 2.6 |
| 25.0 | -4.4 | .07 | -11.0 | -1.7 | 5.21 | 2.5 |

MAN-ACOUSTICS #14: CHINOOK CH 47-A - LEVEL FLYOVER AT 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -3.9 | .00 | -15.9 | -2.3 | 4.88 | 2.2 |
| 26.0 | -4.4 | .00 | -17.2 | -4.5 | 4.66 | 1.9 |
| 26.5 | -4.6 | .00 | -24.1 | -7.3 | 3.31 | 0.4 |
| 27.0 | -5.0 | .00 | -20.7 | -7.2 | 3.33 | 0.4 |
| 27.5 | -5.9 | .00 | -17.8 | -7.3 | 3.58 | 0.7 |
| 28.0 | -5.7 | .00 | -12.7 | -7.8 | 3.88 | 1.0 |
| 28.5 | -5.8 | .00 | -13.5 | -8.4 | 3.72 | 0.8 |
| 29.0 | -6.4 | .00 | -19.1 | -8.8 | 3.48 | 0.6 |
| 29.5 | -7.5 | .07 | -11.5 | -8.7 | 3.15 | 0.2 |
| 30.0 | -8.8 | .00 | -12.9 | -8.6 | 3.07 | 0.1 |
| 30.5 | -8.2 | .00 | -15.2 | -8.9 | 3.04 | 0.1 |
| 31.0 | -8.6 | .00 | -19.1 | -9.4 | 2.75 | -0.3 |
| 31.5 | -8.9 | .00 | -16.3 | -8.6 | 2.99 | 0.0 |
| 32.0 | -9.0 | .00 | -17.1 | -8.7 | 3.07 | 0.1 |
| 32.5 | -9.6 | .00 | -19.5 | -9.0 | 3.08 | 0.1 |
| 33.0 | -10.3 | .00 | -16.6 | -9.2 | 3.31 | 0.4 |
| 33.5 | -9.8 | .00 | -21.5 | -8.7 | 2.78 | -0.2 |
| 34.0 | -10.2 | .00 | -21.1 | -8.7 | 2.99 | 0.0 |
| 34.5 | -11.0 | .00 | -20.2 | -9.0 | 2.70 | -0.3 |
| 35.0 | -10.7 | .00 | -14.5 | -9.0 | 2.60 | -0.4 |
| 35.5 | -10.2 | .00 | -18.3 | -9.0 | 2.57 | -0.5 |
| 36.0 | -10.9 | .00 | -18.3 | -9.1 | 2.42 | -0.7 |
| 36.5 | -11.8 | .00 | -24.0 | -9.9 | 2.58 | -0.5 |
| 37.0 | -11.2 | .00 | -21.3 | -10.7 | 2.53 | -0.5 |
| 37.5 | -12.6 | .00 | -23.6 | -11.5 | 2.45 | -0.6 |
| 38.0 | -12.4 | .00 | -22.3 | -10.0 | 2.31 | -0.8 |
| 38.5 | -11.5 | .00 | -20.2 | -10.0 | 2.66 | -0.4 |
| 39.0 | -11.5 | .00 | -19.7 | -10.4 | 2.85 | -0.2 |
| 39.5 | -11.4 | .00 | -20.4 | -10.1 | 2.74 | -0.3 |
| 40.0 | -10.2 | .00 | -21.0 | -11.4 | 2.72 | -0.3 |

MAN-ACOUSTICS #15: CHINOOK CH 47-A - ROUTINE APPROACH

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -13.7 | 9.78 | 9.9 | -11.8 | 3.46 | 0.5 |
| 1.0 | -13.1 | 8.89 | 9.5 | -10.6 | 3.42 | 0.5 |
| 1.5 | -12.6 | 6.57 | 8.2 | -10.9 | 4.16 | 1.3 |
| 2.0 | -12.9 | 4.14 | 6.2 | -10.6 | 3.78 | 0.9 |
| 2.5 | -15.4 | 3.82 | 5.8 | -10.8 | 3.90 | 1.0 |
| 3.0 | -15.6 | 1.98 | 3.0 | -10.2 | 3.77 | 0.9 |
| 3.5 | -16.0 | 2.05 | 3.1 | -10.5 | 3.59 | 0.7 |
| 4.0 | -15.8 | 1.41 | 1.5 | -10.4 | 3.61 | 0.7 |
| 4.5 | -16.8 | .71 | -1.5 | -9.7 | 3.25 | 0.3 |
| 5.0 | -16.7 | 1.16 | 0.6 | -9.8 | 4.04 | 1.2 |
| 5.5 | -16.0 | 2.02 | 3.1 | -9.6 | 3.48 | 0.6 |
| 6.0 | -16.8 | 1.73 | 2.4 | -9.4 | 3.27 | 0.3 |
| 6.5 | -16.0 | 2.78 | 4.5 | -9.2 | 3.02 | 0.0 |
| 7.0 | -15.7 | 1.26 | 1.0 | -9.1 | 2.68 | -0.4 |
| 7.5 | -17.3 | .38 | -4.2 | -9.4 | 2.51 | -0.6 |
| 8.0 | -15.7 | 2.29 | 3.6 | -9.6 | 3.02 | 0.0 |
| 8.5 | -12.4 | 2.15 | 3.3 | -9.4 | 2.88 | 0.0 |
| 9.0 | -11.9 | 6.70 | 8.3 | -9.6 | 3.28 | 0.3 |
| 9.5 | -12.7 | 3.94 | 6.0 | -9.4 | 3.60 | 0.7 |
| 10.0 | -13.2 | 1.82 | 2.6 | -9.0 | 3.09 | 0.1 |
| 10.5 | -13.4 | 1.49 | 1.7 | -9.3 | 2.59 | -0.5 |
| 11.0 | -15.0 | 1.73 | 2.4 | -9.4 | 2.63 | -0.4 |
| 11.5 | -16.6 | .11 | -9.5 | -9.5 | 2.42 | -0.7 |
| 12.0 | -16.2 | .35 | -4.5 | -9.7 | 2.54 | -0.5 |
| 12.5 | -14.5 | 1.10 | 0.4 | -10.1 | 2.67 | -0.4 |
| 13.0 | -12.7 | 1.48 | 1.7 | -9.8 | 2.99 | 0.0 |
| 13.5 | -12.1 | 2.93 | 4.7 | -9.9 | 3.24 | 0.3 |
| 14.0 | -12.2 | 4.82 | 6.8 | -10.1 | 4.04 | 1.2 |
| 14.5 | -12.6 | 1.70 | 2.3 | -10.2 | 3.73 | 0.8 |
| 15.0 | -14.5 | .14 | -8.3 | -10.0 | 3.35 | 0.4 |
| 15.5 | -12.4 | 2.82 | 4.5 | -9.4 | 5.35 | 2.7 |
| 16.0 | -11.9 | 2.58 | 4.1 | -9.1 | 5.27 | 2.6 |
| 16.5 | -12.8 | 1.85 | 2.7 | -8.6 | 5.13 | 2.4 |
| 17.0 | -13.2 | 3.75 | 5.7 | -9.1 | 4.33 | 1.5 |
| 17.5 | -13.3 | 4.57 | 6.6 | -9.1 | 5.08 | 2.4 |
| 18.0 | -11.9 | 9.13 | 9.6 | -9.3 | 6.15 | 3.6 |
| 18.5 | -11.8 | 4.27 | 6.3 | -9.3 | 7.31 | 4.9 |
| 19.0 | -11.4 | 7.16 | 8.6 | -9.2 | 7.19 | 4.8 |
| 19.5 | -12.0 | 4.37 | 6.4 | -9.0 | 4.91 | 2.2 |
| 20.0 | -11.8 | 2.13 | 3.3 | -8.6 | 5.01 | 2.3 |
| 20.5 | -11.0 | 1.06 | 0.3 | -8.8 | 6.99 | 4.6 |
| 21.0 | -9.8 | 5.03 | 7.0 | -8.6 | 8.09 | 5.8 |
| 21.5 | -10.9 | 2.64 | 4.2 | -9.1 | 7.04 | 4.6 |
| 22.0 | -9.7 | 4.16 | 6.2 | -9.2 | 6.88 | 4.4 |
| 22.5 | -11.0 | 2.59 | 4.1 | -9.2 | 4.97 | 2.3 |
| 23.0 | -10.7 | 2.42 | 3.9 | -9.2 | 4.20 | 1.4 |
| 23.5 | -11.0 | .88 | -0.5 | -9.3 | 3.64 | 0.7 |
| 24.0 | -10.5 | 3.98 | 6.0 | -9.3 | 3.65 | 0.7 |
| 24.5 | -9.0 | 5.06 | 7.0 | -8.8 | 4.01 | 1.2 |
| 25.0 | -8.6 | 2.57 | 4.1 | -8.4 | 4.24 | 1.4 |

MAN-ACOUSTICS #15: CHINOOK CH 47-A - ROUTINE APPROACH

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -8.4 | 5.45 | 7.4 | -8.3 | 4.58 | 1.8 |
| 26.0 | -8.3 | 3.74 | 5.7 | -8.2 | 3.81 | 0.9 |
| 26.5 | -6.9 | 3.26 | 5.1 | -7.9 | 3.80 | 0.9 |
| 27.0 | -6.4 | 4.19 | 6.2 | -7.2 | 4.52 | 1.7 |
| 27.5 | -6.3 | 4.52 | 6.6 | -7.2 | 4.60 | 1.8 |
| 28.0 | -6.1 | 6.28 | 8.0 | -7.4 | 4.38 | 1.6 |
| 28.5 | -6.0 | 2.42 | 3.8 | -7.6 | 3.24 | 0.3 |
| 29.0 | -5.8 | 1.66 | 2.2 | -7.1 | 3.66 | 0.8 |
| 29.5 | -5.6 | 1.67 | 2.2 | -6.9 | 4.08 | 1.2 |
| 30.0 | -5.2 | 1.92 | 2.8 | -6.6 | 4.35 | 1.6 |
| 30.5 | -5.4 | 2.08 | 3.2 | -6.8 | 4.62 | 1.9 |
| 31.0 | -5.7 | 1.79 | 2.5 | -6.4 | 4.82 | 2.1 |
| 31.5 | -5.7 | 1.91 | 2.8 | -6.5 | 5.34 | 2.7 |
| 32.0 | -5.6 | 1.05 | 0.2 | -6.2 | 4.55 | 1.8 |
| 32.5 | -5.4 | .64 | -1.9 | -5.8 | 4.58 | 1.8 |
| 33.0 | -5.2 | .63 | -2.0 | -5.8 | 4.79 | 2.1 |
| 33.5 | -5.2 | .74 | -1.3 | -5.6 | 4.89 | 2.2 |
| 34.0 | -4.9 | .84 | -0.7 | -5.4 | 5.19 | 2.5 |
| 34.5 | -4.4 | .79 | -1.0 | -4.9 | 5.21 | 2.5 |
| 35.0 | -4.1 | .59 | -2.2 | -4.4 | 5.34 | 2.7 |
| 35.5 | -4.1 | .47 | -3.2 | -4.1 | 4.69 | 1.9 |
| 36.0 | -3.6 | .43 | -3.7 | -3.5 | 4.44 | 1.6 |
| 36.5 | -3.5 | .54 | -2.6 | -3.3 | 4.59 | 1.8 |
| 37.0 | -3.1 | .44 | -3.5 | -3.3 | 4.60 | 1.8 |
| 37.5 | -2.9 | .38 | -4.2 | -2.8 | 4.46 | 1.7 |
| 38.0 | -2.2 | .33 | -4.7 | -2.5 | 4.48 | 1.7 |
| 38.5 | -1.5 | .19 | -7.1 | -2.5 | 4.17 | 1.3 |
| 39.0 | -1.0 | .13 | -8.7 | -1.7 | 3.76 | 0.9 |
| 39.5 | -0.8 | .09 | -10.2 | -1.2 | 3.89 | 1.0 |
| 40.0 | -0.8 | .06 | -11.7 | -0.5 | 4.22 | 1.4 |
| 40.5 | -1.0 | .00 | -12.5 | -0.3 | 4.03 | 1.2 |
| 41.0 | -1.0 | .07 | -11.2 | -0.5 | 4.09 | 1.3 |
| 41.5 | -0.5 | .00 | -13.5 | 0.0 | 4.28 | 1.5 |
| 42.0 | -0.5 | .10 | -9.9 | -0.4 | 4.91 | 2.2 |
| 42.5 | 0.0 | .16 | -7.8 | -0.4 | 4.93 | 2.2 |
| 43.0 | 0.0 | .23 | -6.3 | 0.0 | 4.45 | 1.7 |
| 43.5 | -0.5 | .06 | -12.0 | -0.3 | 4.03 | 1.2 |
| 44.0 | -0.9 | .00 | -17.3 | -0.3 | 4.05 | 1.2 |
| 44.5 | -1.1 | .00 | -17.6 | -0.9 | 3.70 | 0.8 |
| 45.0 | -1.2 | .00 | -16.5 | -1.4 | 4.65 | 1.9 |
| 45.5 | -1.6 | .00 | -15.7 | -2.4 | 4.33 | 1.5 |
| 46.0 | -2.4 | .00 | -12.4 | -3.6 | 4.68 | 1.9 |
| 46.5 | -3.1 | .07 | -11.3 | -4.0 | 4.51 | 1.7 |
| 47.0 | -3.8 | .00 | -14.8 | -4.2 | 4.18 | 1.4 |
| 47.5 | -4.2 | .27 | -5.5 | -4.7 | 5.46 | 2.8 |
| 48.0 | -3.9 | .42 | -3.7 | -4.4 | 6.00 | 3.4 |
| 48.5 | -4.5 | 1.16 | 0.7 | -4.4 | 6.31 | 3.8 |
| 49.0 | -4.4 | 1.52 | 1.8 | -4.6 | 6.02 | 3.5 |
| 49.5 | -4.7 | 1.19 | 0.8 | -6.0 | 4.98 | 2.3 |
| 50.0 | -5.5 | 1.13 | 0.5 | -7.0 | 5.15 | 2.5 |

MAN-ACOUSTICS #15: CHINOOK CH 47-A - ROUTINE APPROACH

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 50.5 | -6.3 | .49 | -3.1 | -7.8 | 4.16 | 1.3 |
| 51.0 | -7.4 | .34 | -4.6 | -9.1 | 3.98 | 1.1 |
| 51.5 | -8.1 | .18 | -7.4 | -8.7 | 2.85 | -0.2 |
| 52.0 | -9.0 | .61 | -2.1 | -8.8 | 2.51 | -0.5 |
| 52.5 | -8.1 | .78 | -1.1 | -9.4 | 2.94 | 0.0 |
| 53.0 | -7.2 | 2.11 | 3.2 | -10.5 | 4.70 | 1.9 |
| 53.5 | -9.1 | .41 | -3.9 | -11.1 | 3.26 | 0.3 |
| 54.0 | -10.2 | .55 | -2.6 | -11.1 | 3.07 | 0.1 |
| 54.5 | -11.1 | .44 | -3.6 | -9.9 | 3.26 | 0.3 |
| 55.0 | -12.3 | .29 | -5.3 | -10.5 | 2.64 | -0.4 |
| 55.5 | -12.4 | .49 | -3.1 | -12.0 | 3.00 | 0.0 |
| 56.0 | -11.1 | .85 | -0.7 | -12.2 | 2.84 | -0.2 |
| 56.5 | -12.3 | .45 | -3.4 | -12.1 | 2.71 | -0.3 |
| 57.0 | -12.8 | .21 | -6.7 | -12.8 | 2.91 | 0.0 |
| 57.5 | -12.2 | .54 | -2.6 | -12.7 | 2.78 | -0.2 |
| 58.0 | -11.4 | .76 | -1.2 | -13.2 | 4.12 | 1.3 |
| 58.5 | -10.1 | 1.85 | 2.7 | -12.7 | 3.52 | 0.6 |
| 59.0 | -10.5 | .23 | -6.4 | -12.9 | 3.40 | 0.5 |

MAN-ACOUSTICS #16: CHINOOK CH 47-A - ROUTINE TAKEOFF

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -16.5 | .08 | -10.6 | -11.9 | 2.78 | -0.3 |
| 1.0 | -16.1 | .00 | -17.0 | -12.3 | 2.63 | -0.4 |
| 1.5 | -17.0 | .00 | -13.4 | -12.4 | 2.60 | -0.5 |
| 2.0 | -17.4 | .09 | -10.4 | -12.0 | 2.72 | -0.3 |
| 2.5 | -16.0 | .56 | -2.5 | -11.3 | 2.79 | -0.2 |
| 3.0 | -16.1 | .87 | -0.6 | -10.4 | 2.58 | -0.5 |
| 3.5 | -16.3 | .14 | -8.5 | -11.2 | 2.39 | -0.7 |
| 4.0 | -16.1 | .24 | -6.0 | -11.5 | 2.73 | -0.3 |
| 4.5 | -13.0 | 23.42 | 13.7 | -11.2 | 4.80 | 2.1 |
| 5.0 | -15.7 | 2.25 | 3.5 | -10.7 | 2.91 | 0.0 |
| 5.5 | -18.8 | .00 | -18.8 | -10.4 | 2.34 | -0.7 |
| 6.0 | -18.3 | .00 | -22.1 | -10.0 | 2.63 | -0.4 |
| 6.5 | -17.3 | .00 | -20.5 | -9.5 | 2.60 | -0.4 |
| 7.0 | -16.7 | .00 | -21.8 | -9.1 | 2.51 | -0.5 |
| 7.5 | -15.8 | .00 | -16.0 | -9.5 | 2.40 | -0.7 |
| 8.0 | -15.0 | .00 | -15.5 | -10.9 | 2.55 | -0.5 |
| 8.5 | -14.3 | .00 | -16.2 | -10.5 | 2.63 | -0.4 |
| 9.0 | -13.5 | .00 | -23.4 | -10.1 | 2.55 | -0.5 |
| 9.5 | -12.8 | .00 | -22.5 | -10.8 | 2.81 | -0.2 |
| 10.0 | -12.5 | .00 | -20.7 | -10.4 | 2.67 | -0.4 |
| 10.5 | -12.6 | .00 | -19.8 | -9.7 | 2.67 | -0.4 |
| 11.0 | -12.8 | .00 | -15.2 | -7.8 | 2.54 | -0.5 |
| 11.5 | -13.4 | .00 | -18.9 | -7.7 | 2.50 | -0.6 |
| 12.0 | -12.2 | .00 | -20.7 | -8.2 | 2.65 | -0.4 |
| 12.5 | -13.1 | .00 | -17.5 | -7.1 | 2.54 | -0.5 |
| 13.0 | -14.1 | .00 | -14.4 | -6.1 | 2.94 | 0.0 |
| 13.5 | -13.7 | .08 | -10.8 | -5.7 | 2.98 | 0.0 |
| 14.0 | -12.4 | .00 | -15.5 | -6.1 | 3.15 | 0.2 |
| 14.5 | -11.2 | .00 | -22.6 | -6.9 | 3.27 | 0.3 |
| 15.0 | -9.9 | .00 | -13.5 | -6.9 | 3.50 | 0.6 |
| 15.5 | -10.2 | .00 | -19.6 | -6.2 | 3.69 | 0.8 |
| 16.0 | -9.5 | .00 | -19.9 | -5.8 | 3.80 | 0.9 |
| 16.5 | -9.6 | .00 | -19.9 | -5.6 | 3.89 | 1.0 |
| 17.0 | -8.5 | .00 | -23.8 | -3.7 | 3.38 | 0.4 |
| 17.5 | -7.9 | .00 | -17.2 | -3.1 | 2.74 | -0.3 |
| 18.0 | -6.7 | .00 | -22.0 | -3.7 | 2.55 | -0.5 |
| 18.5 | -5.9 | .00 | -19.5 | -1.7 | 3.80 | 0.9 |
| 19.0 | -4.2 | .00 | -14.8 | 0.0 | 3.94 | 1.1 |
| 19.5 | -1.3 | .07 | -11.5 | -0.2 | 4.60 | 1.8 |
| 20.0 | 0.0 | .00 | -19.9 | -3.6 | 4.14 | 1.3 |
| 20.5 | -1.7 | .00 | -16.3 | -5.2 | 4.77 | 2.0 |
| 21.0 | -3.8 | .00 | -19.3 | -7.6 | 3.06 | 0.1 |
| 21.5 | -4.1 | .06 | -12.0 | -8.3 | 3.36 | 0.4 |
| 22.0 | -5.4 | .00 | -19.8 | -9.0 | 3.04 | 0.0 |
| 22.5 | -7.0 | .00 | -16.8 | -9.1 | 2.90 | 0.0 |
| 23.0 | -8.0 | .00 | -21.9 | -10.1 | 2.92 | 0.0 |
| 23.5 | -8.1 | .00 | -23.7 | -9.5 | 2.70 | -0.3 |
| 24.0 | -9.0 | .00 | -21.2 | -10.2 | 2.79 | -0.2 |
| 24.5 | -8.8 | .00 | -22.8 | -10.5 | 2.96 | 0.0 |
| 25.0 | -9.1 | .00 | -15.6 | -11.8 | 3.02 | 0.0 |

MAN-ACOUSTICS #16: CHINOOK CH 47-A - ROUTINE TAKEOFF

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -9.6 | .00 | -14.0 | -12.0 | 2.92 | 0.0 |
| 26.0 | -10.3 | .00 | -18.6 | -11.8 | 2.78 | -0.3 |
| 26.5 | -11.6 | .00 | -20.6 | -12.1 | 2.74 | -0.3 |
| 27.0 | -12.9 | .00 | -19.3 | -12.4 | 2.78 | -0.2 |
| 27.5 | -13.5 | .00 | -18.2 | -12.9 | 3.02 | 0.0 |
| 28.0 | -14.5 | .00 | -24.8 | -12.9 | 2.71 | -0.3 |
| 28.5 | -15.2 | .00 | -24.9 | -13.5 | 2.62 | -0.4 |
| 29.0 | -15.0 | .00 | -23.2 | -13.5 | 2.65 | -0.4 |
| 29.5 | -14.8 | .00 | -21.1 | -14.0 | 2.52 | -0.5 |
| 30.0 | -15.4 | .00 | -15.8 | -13.5 | 2.43 | -0.7 |

MAN-ACOUSTICS #17: BELL UH-1H (HUEY) - LEVEL FLYOVER AT 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -10.0 | 3.21 | 5.1 | -5.9 | 5.08 | 2.4 |
| 1.0 | -8.9 | 3.32 | 5.2 | -5.6 | 5.41 | 2.8 |
| 1.5 | -7.7 | 2.21 | 3.5 | -4.5 | 5.25 | 2.6 |
| 2.0 | -7.6 | 3.11 | 4.9 | -4.8 | 4.88 | 2.2 |
| 2.5 | -7.0 | 3.51 | 5.5 | -4.7 | 4.69 | 1.9 |
| 3.0 | -6.2 | 2.22 | 3.5 | -4.5 | 4.88 | 2.2 |
| 3.5 | -6.1 | 1.55 | 1.9 | -4.3 | 5.18 | 2.5 |
| 4.0 | -5.5 | 1.06 | 0.3 | -3.7 | 5.42 | 2.8 |
| 4.5 | -5.5 | .75 | -1.2 | -4.0 | 5.03 | 2.3 |
| 5.0 | -5.8 | .73 | -1.4 | -3.6 | 4.59 | 1.8 |
| 5.5 | -5.7 | 1.29 | 1.1 | -3.5 | 5.17 | 2.5 |
| 6.0 | -5.8 | 2.14 | 3.3 | -3.1 | 5.79 | 3.2 |
| 6.5 | -4.0 | 2.77 | 4.4 | -2.4 | 5.77 | 3.2 |
| 7.0 | -3.7 | 2.26 | 3.5 | -3.1 | 6.77 | 4.3 |
| 7.5 | -4.1 | 5.02 | 7.0 | -3.4 | 6.38 | 3.9 |
| 8.0 | -5.6 | 5.79 | 7.6 | -3.6 | 5.36 | 2.7 |
| 8.5 | -6.6 | 4.18 | 6.2 | -3.3 | 5.17 | 2.5 |
| 9.0 | -6.7 | 2.34 | 3.7 | -3.4 | 5.02 | 2.3 |
| 9.5 | -6.8 | 3.18 | 5.0 | -4.0 | 5.39 | 2.7 |
| 10.0 | -5.2 | 6.40 | 8.1 | -3.9 | 5.90 | 3.3 |
| 10.5 | -5.3 | 10.04 | 10.0 | -4.4 | 7.04 | 4.6 |
| 11.0 | -5.5 | 12.67 | 11.0 | -4.1 | 6.61 | 4.1 |
| 11.5 | -5.0 | 5.88 | 7.7 | -4.1 | 6.14 | 3.6 |
| 12.0 | -5.3 | 7.70 | 8.9 | -4.2 | 6.40 | 3.9 |
| 12.5 | -5.2 | 4.91 | 6.9 | -3.7 | 5.26 | 2.6 |
| 13.0 | -5.9 | 4.19 | 6.2 | -4.2 | 6.09 | 3.5 |
| 13.5 | -5.5 | 2.88 | 4.6 | -3.5 | 5.70 | 3.1 |
| 14.0 | -5.0 | 2.53 | 4.0 | -3.9 | 5.98 | 3.4 |
| 14.5 | -5.5 | 3.40 | 5.3 | -3.9 | 6.28 | 3.8 |
| 15.0 | -4.4 | 4.22 | 6.3 | -3.7 | 6.99 | 4.6 |
| 15.5 | -4.9 | 5.93 | 7.7 | -3.5 | 7.40 | 5.0 |
| 16.0 | -4.6 | 2.86 | 4.6 | -2.6 | 5.98 | 3.4 |
| 16.5 | -3.4 | 5.76 | 7.6 | -2.9 | 7.00 | 4.6 |
| 17.0 | -3.8 | 7.47 | 8.7 | -2.4 | 6.73 | 4.3 |
| 17.5 | -2.9 | 6.03 | 7.8 | -3.1 | 7.35 | 5.0 |
| 18.0 | -3.7 | 6.81 | 8.3 | -2.6 | 6.25 | 3.7 |
| 18.5 | -3.2 | 7.78 | 8.9 | -2.1 | 5.85 | 3.3 |
| 19.0 | -4.1 | 8.72 | 9.4 | -2.0 | 6.20 | 3.7 |
| 19.5 | -3.5 | 6.80 | 8.3 | -1.3 | 5.63 | 3.0 |
| 20.0 | -3.5 | 3.84 | 5.8 | -1.6 | 5.66 | 3.0 |
| 20.5 | -3.3 | 7.70 | 8.9 | -1.1 | 5.15 | 2.5 |
| 21.0 | -3.5 | 5.07 | 7.1 | -1.2 | 4.51 | 1.7 |
| 21.5 | -4.4 | 2.91 | 4.6 | -1.4 | 4.28 | 1.5 |
| 22.0 | -4.8 | 2.83 | 4.5 | -0.4 | 3.86 | 1.0 |
| 22.5 | -4.7 | 2.83 | 4.5 | -0.6 | 3.97 | 1.1 |
| 23.0 | -4.6 | 2.38 | 3.8 | -0.6 | 3.77 | 0.9 |
| 23.5 | -4.7 | 2.90 | 4.6 | -0.2 | 3.12 | 0.1 |
| 24.0 | -5.0 | 3.44 | 5.4 | -0.3 | 3.17 | 0.2 |
| 24.5 | -5.4 | 5.49 | 7.4 | 0.0 | 3.23 | 0.3 |
| 25.0 | -2.5 | 14.25 | 11.5 | 0.0 | 2.94 | 0.0 |

MAN-ACOUSTICS #17: BELL UH-1H (HUEY) - LEVEL FLYOVER AT 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -3.3 | 9.08 | 9.6 | -0.4 | 3.09 | 0.1 |
| 26.0 | -2.8 | 13.90 | 11.4 | -0.9 | 2.76 | -0.3 |
| 26.5 | -4.3 | 5.63 | 7.5 | -1.2 | 2.80 | -0.2 |
| 27.0 | -4.7 | 1.92 | 2.8 | -2.1 | 2.24 | -0.9 |
| 27.5 | -4.3 | .61 | -2.1 | -3.0 | 2.18 | -0.9 |
| 28.0 | -2.4 | .77 | -1.1 | -4.1 | 2.82 | -0.2 |
| 28.5 | -0.8 | 3.56 | 5.5 | -5.9 | 3.27 | 0.3 |
| 29.0 | 0.0 | 2.06 | 3.2 | -7.3 | 5.44 | 2.8 |
| 29.5 | -1.7 | .46 | -3.4 | -10.0 | 4.76 | 2.0 |
| 30.0 | -1.3 | 1.52 | 1.8 | -11.2 | 10.10 | 8.1 |
| 30.5 | -2.3 | .40 | -3.9 | -11.9 | 4.39 | 1.6 |
| 31.0 | -2.9 | .14 | -8.4 | -11.8 | 5.35 | 2.7 |
| 31.5 | -3.8 | .00 | -13.9 | -11.7 | 3.29 | 0.3 |
| 32.0 | -2.4 | .08 | -10.7 | -12.8 | 3.88 | 1.0 |
| 32.5 | -4.2 | .00 | -12.9 | -12.0 | 3.24 | 0.3 |
| 33.0 | -3.8 | .00 | -13.8 | -12.7 | 3.34 | 0.4 |
| 33.5 | -3.2 | .00 | -14.6 | -13.0 | 3.37 | 0.4 |
| 34.0 | -4.5 | .06 | -11.9 | -13.2 | 3.06 | 0.1 |
| 34.5 | -4.7 | .00 | -15.8 | -13.2 | 3.17 | 0.2 |
| 35.0 | -5.5 | .00 | -19.7 | -13.7 | 2.98 | 0.0 |
| 35.5 | -6.3 | .00 | -16.0 | -12.7 | 2.96 | 0.0 |
| 36.0 | -5.3 | .07 | -11.0 | -12.7 | 3.24 | 0.3 |
| 36.5 | -6.8 | .00 | -12.4 | -13.6 | 2.79 | -0.2 |
| 37.0 | -6.8 | .10 | -9.6 | -14.0 | 3.18 | 0.2 |
| 37.5 | -7.6 | .06 | -11.7 | -14.4 | 3.04 | 0.1 |
| 38.0 | -10.3 | .07 | -11.2 | -13.0 | 2.84 | -0.2 |
| 38.5 | -10.5 | .00 | -13.2 | -13.1 | 2.60 | -0.5 |
| 39.0 | -8.0 | .33 | -4.8 | -14.6 | 2.92 | 0.0 |
| 39.5 | -8.7 | .09 | -10.2 | -15.5 | 2.81 | -0.2 |
| 40.0 | -9.1 | .13 | -8.6 | -15.3 | 2.86 | -0.2 |
| 40.5 | -10.3 | .29 | -5.4 | -15.4 | 2.62 | -0.4 |
| 41.0 | -13.6 | .00 | -12.9 | -13.5 | 2.68 | -0.4 |
| 41.5 | -13.2 | .00 | -12.2 | -15.3 | 2.48 | -0.6 |
| 42.0 | -11.9 | .00 | -12.3 | -16.1 | 2.69 | -0.4 |
| 42.5 | -12.4 | .30 | -5.1 | -18.0 | 3.36 | 0.4 |
| 43.0 | -17.5 | .08 | -10.6 | -18.8 | 2.81 | -0.2 |
| 43.5 | -20.8 | .00 | -14.8 | -20.8 | 2.76 | -0.3 |
| 44.0 | -22.5 | .00 | -15.8 | -24.2 | 3.10 | 0.1 |

MAN-ACOUSTICS #18: KIOWA OH-58 - LEVEL FLYOVER AT 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -27.6 | .00 | -13.6 | -21.6 | 2.75 | -0.3 |
| 1.0 | -24.2 | .00 | -16.1 | -20.7 | 3.37 | 0.4 |
| 1.5 | -21.6 | .00 | -22.0 | -18.4 | 3.50 | 0.6 |
| 2.0 | -15.9 | .07 | -11.2 | -12.6 | 5.63 | 3.0 |
| 2.5 | -10.9 | .00 | -19.0 | -8.5 | 4.94 | 2.2 |
| 3.0 | -10.8 | .00 | -19.0 | -6.9 | 3.57 | 0.7 |
| 3.5 | -11.4 | .00 | -21.1 | -6.3 | 3.18 | 0.2 |
| 4.0 | -11.0 | .00 | -22.5 | -5.6 | 2.82 | -0.2 |
| 4.5 | -11.2 | .00 | -18.5 | -5.6 | 2.81 | -0.2 |
| 5.0 | -11.8 | .00 | -20.1 | -6.0 | 2.85 | -0.2 |
| 5.5 | -11.1 | .00 | -23.0 | -5.9 | 3.08 | 0.1 |
| 6.0 | -10.6 | .00 | -24.2 | -5.7 | 2.67 | -0.4 |
| 6.5 | -11.2 | .00 | -21.4 | -5.8 | 2.80 | -0.2 |
| 7.0 | -12.3 | .00 | -17.0 | -6.1 | 2.64 | -0.4 |
| 7.5 | -11.1 | .00 | -21.4 | -6.7 | 2.89 | 0.0 |
| 8.0 | -12.7 | .00 | -23.3 | -6.4 | 2.72 | -0.3 |
| 8.5 | -13.0 | .00 | -20.2 | -6.6 | 2.62 | -0.4 |
| 9.0 | -15.7 | .00 | -19.5 | -7.1 | 2.69 | -0.3 |
| 9.5 | -16.4 | .00 | -24.0 | -7.0 | 2.60 | -0.5 |
| 10.0 | -14.9 | .00 | -18.2 | -7.2 | 2.71 | -0.3 |
| 10.5 | -15.6 | .00 | -22.1 | -7.1 | 2.59 | -0.5 |
| 11.0 | -13.5 | .00 | -20.2 | -7.3 | 2.75 | -0.3 |
| 11.5 | -13.5 | .00 | -21.4 | -7.8 | 2.64 | -0.4 |
| 12.0 | -12.9 | .00 | -16.9 | -7.7 | 3.04 | 0.0 |
| 12.5 | -13.7 | .00 | -20.5 | -7.3 | 2.78 | -0.2 |
| 13.0 | -12.8 | .00 | -21.4 | -7.7 | 2.75 | -0.3 |
| 13.5 | -11.1 | .00 | -16.8 | -7.3 | 2.86 | -0.2 |
| 14.0 | -8.6 | .00 | -24.5 | -6.9 | 3.93 | 1.1 |
| 14.5 | -9.4 | .00 | -24.3 | -6.8 | 3.58 | 0.7 |
| 15.0 | -9.5 | .00 | -21.4 | -6.3 | 3.76 | 0.9 |
| 15.5 | -8.8 | .00 | -18.8 | -5.3 | 3.05 | 0.1 |
| 16.0 | -9.7 | .00 | -19.6 | -5.4 | 2.71 | -0.3 |
| 16.5 | -13.3 | .00 | -21.5 | -4.9 | 2.72 | -0.3 |
| 17.0 | -9.3 | .00 | -15.6 | -4.4 | 2.57 | -0.5 |
| 17.5 | -7.0 | .00 | -26.3 | -3.8 | 2.62 | -0.4 |
| 18.0 | -6.1 | .00 | -22.6 | -3.3 | 3.14 | 0.2 |
| 18.5 | -3.9 | .00 | -25.2 | -2.5 | 3.46 | 0.5 |
| 19.0 | -4.0 | .00 | -24.7 | -3.0 | 3.12 | 0.1 |
| 19.5 | -5.2 | .00 | -25.3 | -4.1 | 3.69 | 0.8 |
| 20.0 | -6.0 | .00 | -25.7 | -4.1 | 3.95 | 1.1 |
| 20.5 | -3.7 | .00 | -20.6 | -2.6 | 3.88 | 1.0 |
| 21.0 | -3.5 | .00 | -21.4 | -2.6 | 4.74 | 2.0 |
| 21.5 | -4.9 | .00 | -27.4 | -3.1 | 5.16 | 2.5 |
| 22.0 | -3.9 | .00 | -29.1 | -2.6 | 4.35 | 1.5 |
| 22.5 | -4.6 | .00 | -25.8 | -2.7 | 4.04 | 1.2 |
| 23.0 | -3.0 | .00 | -26.0 | -1.9 | 4.41 | 1.6 |
| 23.5 | -3.7 | .00 | -26.3 | -2.0 | 4.00 | 1.2 |
| 24.0 | -2.9 | .00 | -24.5 | -1.9 | 4.64 | 1.9 |
| 24.5 | -2.8 | .00 | -27.8 | -1.8 | 4.46 | 1.7 |
| 25.0 | -2.6 | .00 | -23.7 | -2.1 | 6.11 | 3.6 |

MAN-ACOUSTICS #18: KIOWA OH-58 - LEVEL FLYOVER AT 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -1.5 | .00 | -28.7 | -0.7 | 5.21 | 2.5 |
| 26.0 | -1.6 | .00 | -26.5 | -1.2 | 5.21 | 2.5 |
| 26.5 | -1.8 | .00 | -29.1 | -0.6 | 4.54 | 1.8 |
| 27.0 | -2.6 | .00 | -27.4 | -0.4 | 3.70 | 0.8 |
| 27.5 | -2.4 | .00 | -26.5 | -0.5 | 3.74 | 0.9 |
| 28.0 | -2.5 | .00 | -24.3 | -0.3 | 4.08 | 1.2 |
| 28.5 | -1.6 | .00 | -29.6 | -0.3 | 4.02 | 1.2 |
| 29.0 | -1.0 | .00 | -27.6 | -0.2 | 3.52 | 0.6 |
| 29.5 | -1.1 | .00 | -32.1 | 0.0 | 3.13 | 0.1 |
| 30.0 | -0.5 | .00 | -27.1 | -0.2 | 2.89 | 0.0 |
| 30.5 | 0.0 | .00 | -23.6 | 0.0 | 2.98 | 0.0 |
| 31.0 | -0.4 | .00 | -27.2 | -0.5 | 3.31 | 0.4 |
| 31.5 | 0.0 | .00 | -28.0 | -0.3 | 3.06 | 0.1 |
| 32.0 | -0.2 | .00 | -24.6 | -0.9 | 3.21 | 0.2 |
| 32.5 | -1.0 | .00 | -23.3 | -1.4 | 3.62 | 0.7 |
| 33.0 | -1.5 | .00 | -24.5 | -1.6 | 3.79 | 0.9 |
| 33.5 | -2.5 | .00 | -24.6 | -1.9 | 3.00 | 0.0 |
| 34.0 | -1.6 | .00 | -27.9 | -1.4 | 3.03 | 0.0 |
| 34.5 | -2.8 | .00 | -28.1 | -3.4 | 3.16 | 0.2 |
| 35.0 | -3.0 | .00 | -17.4 | -4.5 | 3.20 | 0.2 |
| 35.5 | -2.6 | .00 | -18.2 | -4.6 | 3.21 | 0.3 |
| 36.0 | -2.4 | .00 | -22.0 | -4.2 | 3.09 | 0.1 |
| 36.5 | -3.7 | .00 | -24.4 | -4.5 | 3.10 | 0.1 |
| 37.0 | -3.0 | .00 | -20.2 | -4.5 | 3.09 | 0.1 |
| 37.5 | -4.5 | .00 | -21.3 | -5.1 | 3.11 | 0.1 |
| 38.0 | -3.7 | .00 | -26.0 | -4.9 | 3.18 | 0.2 |
| 38.5 | -4.4 | .00 | -25.4 | -4.9 | 2.99 | 0.0 |
| 39.0 | -3.8 | .00 | -21.6 | -4.5 | 3.03 | 0.0 |
| 39.5 | -5.4 | .00 | -23.3 | -6.2 | 3.02 | 0.0 |
| 40.0 | -6.3 | .00 | -22.8 | -5.7 | 2.87 | 0.0 |
| 40.5 | -5.8 | .00 | -20.4 | -4.8 | 3.06 | 0.1 |
| 41.0 | -6.5 | .00 | -21.6 | -5.0 | 2.71 | -0.3 |
| 41.5 | -7.7 | .00 | -15.6 | -5.6 | 2.92 | 0.0 |
| 42.0 | -7.8 | .00 | -20.4 | -6.6 | 2.81 | -0.2 |
| 42.5 | -7.5 | .00 | -20.5 | -6.8 | 2.82 | -0.2 |
| 43.0 | -9.2 | .00 | -17.6 | -6.9 | 2.98 | 0.0 |
| 43.5 | -9.2 | .00 | -19.6 | -7.2 | 2.81 | -0.2 |
| 44.0 | -7.9 | .00 | -16.7 | -7.7 | 3.17 | 0.2 |
| 44.5 | -7.5 | .00 | -18.3 | -6.7 | 3.12 | 0.1 |
| 45.0 | -7.3 | .00 | -21.3 | -8.0 | 3.07 | 0.1 |
| 45.5 | -9.2 | .00 | -18.4 | -7.3 | 2.97 | 0.0 |
| 46.0 | -11.2 | .00 | -18.0 | -8.4 | 2.93 | 0.0 |
| 46.5 | -11.4 | .00 | -19.0 | -9.9 | 2.90 | 0.0 |
| 47.0 | -11.4 | .00 | -22.1 | -9.5 | 2.75 | -0.3 |
| 47.5 | -9.7 | .00 | -20.4 | -8.3 | 2.94 | 0.0 |
| 48.0 | -8.3 | .00 | -17.1 | -8.5 | 3.21 | 0.2 |
| 48.5 | -9.6 | .00 | -17.5 | -9.9 | 3.18 | 0.2 |
| 49.0 | -12.3 | .00 | -17.2 | -11.1 | 2.98 | 0.0 |
| 49.5 | -14.7 | .00 | -16.0 | -12.3 | 3.08 | 0.1 |
| 50.0 | -18.1 | .00 | -17.7 | -13.5 | 2.75 | -0.3 |

MAN-ACOUSTICS #18: KIOWA OH-58 - LEVEL FLYOVER AT 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 50.5 | -19.5 | .00 | -19.3 | -16.3 | 2.88 | 0.0 |
| 51.0 | -22.4 | .09 | -10.2 | -19.8 | 3.39 | 0.4 |
| 51.5 | -25.5 | .00 | -14.6 | -21.7 | 2.71 | -0.3 |
| 52.0 | -25.9 | .00 | -15.8 | -23.2 | 2.82 | -0.2 |

MAN-ACOUSTICS #19: KIOWA OH-58 - ROUTINE APPROACH

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -16.9 | .00 | -22.9 | -12.4 | 2.37 | -0.7 |
| 1.0 | -16.2 | .00 | -22.3 | -11.3 | 2.48 | -0.6 |
| 1.5 | -16.3 | .00 | -21.0 | -11.7 | 2.74 | -0.3 |
| 2.0 | -15.5 | .22 | -6.5 | -12.3 | 2.97 | 0.0 |
| 2.5 | -15.3 | .55 | -2.5 | -12.4 | 2.88 | 0.0 |
| 3.0 | -15.2 | 1.66 | 2.2 | -12.0 | 2.73 | -0.3 |
| 3.5 | -16.1 | .62 | -2.1 | -11.6 | 2.63 | -0.4 |
| 4.0 | -16.8 | .40 | -3.9 | -11.7 | 2.53 | -0.5 |
| 4.5 | -16.4 | .50 | -3.0 | -11.8 | 2.67 | -0.4 |
| 5.0 | -16.9 | .54 | -2.6 | -12.1 | 2.38 | -0.7 |
| 5.5 | -16.7 | .16 | -7.7 | -11.3 | 2.51 | -0.6 |
| 6.0 | -17.2 | .07 | -11.1 | -11.2 | 2.52 | -0.5 |
| 6.5 | -16.7 | .00 | -14.5 | -10.9 | 2.27 | -0.8 |
| 7.0 | -16.7 | .00 | -19.2 | -10.6 | 2.44 | -0.6 |
| 7.5 | -17.0 | .00 | -20.2 | -10.4 | 2.43 | -0.6 |
| 8.0 | -15.9 | .00 | -14.6 | -10.9 | 2.48 | -0.6 |
| 8.5 | -13.9 | .00 | -18.1 | -10.5 | 2.41 | -0.7 |
| 9.0 | -14.4 | .00 | -18.1 | -10.6 | 2.30 | -0.8 |
| 9.5 | -14.2 | .00 | -21.7 | -10.1 | 2.35 | -0.7 |
| 10.0 | -15.6 | .00 | -26.8 | -10.0 | 2.32 | -0.8 |
| 10.5 | -16.4 | .00 | -24.2 | -9.4 | 2.35 | -0.7 |
| 11.0 | -16.0 | .00 | -28.3 | -9.1 | 2.31 | -0.8 |
| 11.5 | -15.4 | .00 | -25.1 | -9.1 | 2.45 | -0.6 |
| 12.0 | -14.8 | .00 | -28.5 | -8.9 | 2.52 | -0.5 |
| 12.5 | -14.5 | .00 | -26.2 | -9.0 | 2.53 | -0.5 |
| 13.0 | -13.6 | .00 | -21.1 | -8.9 | 2.52 | -0.5 |
| 13.5 | -12.8 | .00 | -18.1 | -8.8 | 2.43 | -0.6 |
| 14.0 | -12.2 | .00 | -17.4 | -9.1 | 2.43 | -0.6 |
| 14.5 | -11.2 | .00 | -19.6 | -9.1 | 2.44 | -0.6 |
| 15.0 | -10.4 | .10 | -10.0 | -9.3 | 2.52 | -0.5 |
| 15.5 | -10.4 | .00 | -16.0 | -9.1 | 2.48 | -0.6 |
| 16.0 | -11.0 | .00 | -23.5 | -9.1 | 2.28 | -0.8 |
| 16.5 | -11.9 | .00 | -18.2 | -9.2 | 2.24 | -0.9 |
| 17.0 | -13.1 | .00 | -20.1 | -9.0 | 2.23 | -0.9 |
| 17.5 | -13.1 | .00 | -22.1 | -8.7 | 2.32 | -0.8 |
| 18.0 | -13.9 | .00 | -19.6 | -8.4 | 2.15 | -1.0 |
| 18.5 | -14.8 | .00 | -16.2 | -8.3 | 2.22 | -0.9 |
| 19.0 | -15.2 | .00 | -17.6 | -8.6 | 2.38 | -0.7 |
| 19.5 | -14.4 | .00 | -20.8 | -8.3 | 2.54 | -0.5 |
| 20.0 | -13.7 | .00 | -15.3 | -8.2 | 2.71 | -0.3 |
| 20.5 | -11.9 | .00 | -19.2 | -8.2 | 2.80 | -0.2 |
| 21.0 | -11.7 | .00 | -18.1 | -8.3 | 2.78 | -0.2 |
| 21.5 | -11.1 | .00 | -17.0 | -9.0 | 2.97 | 0.0 |
| 22.0 | -10.0 | .00 | -17.9 | -8.5 | 3.55 | 0.6 |
| 22.5 | -8.8 | .00 | -19.9 | -8.2 | 3.68 | 0.8 |
| 23.0 | -8.4 | .00 | -26.5 | -7.8 | 3.80 | 0.9 |
| 23.5 | -7.6 | .00 | -20.1 | -7.1 | 3.85 | 1.0 |
| 24.0 | -7.0 | .00 | -19.9 | -7.3 | 3.87 | 1.0 |
| 24.5 | -7.3 | .00 | -19.3 | -7.6 | 4.63 | 1.9 |
| 25.0 | -7.0 | .00 | -22.1 | -7.5 | 4.61 | 1.8 |

MAN-ACOUSTICS #19: KIOWA OH-58 - ROUTINE APPROACH

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -7.3 | .00 | -25.1 | -7.1 | 3.61 | 0.7 |
| 26.0 | -6.4 | .00 | -22.1 | -6.5 | 4.61 | 1.8 |
| 26.5 | -5.3 | .00 | -20.6 | -6.1 | 4.38 | 1.6 |
| 27.0 | -5.1 | .00 | -25.3 | -6.0 | 4.58 | 1.8 |
| 27.5 | -5.3 | .00 | -22.1 | -5.9 | 4.35 | 1.5 |
| 28.0 | -5.3 | .00 | -13.7 | -5.6 | 3.89 | 1.0 |
| 28.5 | -5.4 | .00 | -13.3 | -6.0 | 3.82 | 0.9 |
| 29.0 | -4.8 | .07 | -11.2 | -5.8 | 4.66 | 1.9 |
| 29.5 | -4.2 | .06 | -12.0 | -5.5 | 5.04 | 2.3 |
| 30.0 | -3.9 | .00 | -12.2 | -4.9 | 4.98 | 2.3 |
| 30.5 | -3.1 | .00 | -14.9 | -4.2 | 4.20 | 1.4 |
| 31.0 | -3.2 | .06 | -11.6 | -4.2 | 4.15 | 1.3 |
| 31.5 | -1.8 | 1.40 | 1.5 | -3.5 | 5.14 | 2.5 |
| 32.0 | -1.9 | .16 | -7.9 | -3.0 | 3.84 | 1.0 |
| 32.5 | -2.6 | .00 | -13.5 | -3.3 | 3.56 | 0.6 |
| 33.0 | -2.9 | .00 | -15.8 | -3.1 | 3.69 | 0.8 |
| 33.5 | -3.3 | .00 | -14.7 | -2.9 | 3.61 | 0.7 |
| 34.0 | -3.3 | .00 | -12.5 | -3.5 | 3.85 | 1.0 |
| 34.5 | -3.2 | .00 | -16.3 | -3.2 | 3.93 | 1.1 |
| 35.0 | -2.8 | .00 | -12.8 | -2.7 | 4.22 | 1.4 |
| 35.5 | -2.3 | .00 | -14.2 | -2.5 | 3.97 | 1.1 |
| 36.0 | -1.7 | .00 | -15.0 | -2.3 | 3.71 | 0.8 |
| 36.5 | -1.5 | .00 | -17.0 | -2.3 | 3.68 | 0.8 |
| 37.0 | -1.2 | .00 | -16.8 | -2.3 | 3.51 | 0.6 |
| 37.5 | 0.0 | .00 | -20.1 | -1.6 | 3.63 | 0.7 |
| 38.0 | -0.6 | .00 | -25.6 | -1.5 | 3.39 | 0.5 |
| 38.5 | 0.0 | .00 | -21.0 | -0.6 | 3.30 | 0.4 |
| 39.0 | 0.0 | .00 | -18.7 | 0.0 | 2.82 | -0.2 |
| 39.5 | -0.5 | .00 | -17.7 | -1.5 | 3.40 | 0.5 |
| 40.0 | -0.2 | .00 | -19.0 | -2.1 | 3.33 | 0.4 |
| 40.5 | -0.5 | .00 | -21.7 | -2.8 | 2.87 | 0.0 |
| 41.0 | -1.4 | .00 | -22.0 | -4.4 | 3.19 | 0.2 |
| 41.5 | -1.7 | .00 | -21.2 | -5.0 | 3.12 | 0.1 |
| 42.0 | -2.9 | .00 | -26.1 | -6.2 | 3.09 | 0.1 |
| 42.5 | -3.3 | .00 | -21.9 | -6.2 | 3.17 | 0.2 |
| 43.0 | -2.7 | .00 | -23.3 | -5.4 | 3.09 | 0.1 |
| 43.5 | -2.0 | .00 | -20.4 | -5.1 | 3.21 | 0.2 |
| 44.0 | -2.6 | .00 | -14.8 | -5.5 | 2.85 | -0.2 |
| 44.5 | -2.5 | .00 | -20.6 | -6.2 | 3.15 | 0.2 |
| 45.0 | -3.9 | .00 | -20.0 | -7.0 | 3.22 | 0.3 |
| 45.5 | -3.3 | .00 | -21.7 | -6.7 | 2.89 | 0.0 |
| 46.0 | -4.4 | .00 | -20.4 | -7.8 | 2.72 | -0.3 |
| 46.5 | -5.9 | .00 | -22.7 | -8.6 | 2.72 | -0.3 |
| 47.0 | -7.0 | .00 | -23.2 | -9.4 | 2.69 | -0.3 |
| 47.5 | -8.1 | .00 | -20.7 | -9.4 | 2.60 | -0.5 |
| 48.0 | -8.2 | .00 | -22.6 | -9.1 | 2.64 | -0.4 |
| 48.5 | -7.6 | .00 | -18.8 | -8.6 | 2.77 | -0.3 |
| 49.0 | -8.1 | .00 | -15.2 | -9.0 | 2.61 | -0.4 |
| 49.5 | -9.8 | .00 | -22.2 | -8.7 | 2.54 | -0.5 |
| 50.0 | -9.7 | .00 | -21.8 | -8.9 | 2.59 | -0.5 |

MAN-ACOUSTICS #19: KIOWA OH-58 - ROUTINE APPROACH

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 50.5 | -9.3 | .00 | -21.0 | -8.6 | 2.73 | -0.3 |
| 51.0 | -9.8 | .00 | -17.0 | -8.7 | 2.72 | -0.3 |
| 51.5 | -10.4 | .00 | -20.4 | -8.2 | 2.67 | -0.4 |
| 52.0 | -10.8 | .00 | -20.1 | -8.9 | 2.69 | -0.4 |
| 52.5 | -10.6 | .00 | -17.1 | -9.8 | 2.85 | -0.2 |
| 53.0 | -9.5 | .00 | -18.9 | -9.7 | 3.02 | 0.0 |
| 53.5 | -8.7 | .00 | -12.6 | -9.7 | 2.70 | -0.3 |
| 54.0 | -8.2 | .06 | -11.8 | -10.3 | 2.54 | -0.5 |
| 54.5 | -7.5 | .00 | -15.9 | -9.9 | 2.89 | 0.0 |
| 55.0 | -8.0 | .00 | -13.7 | -10.2 | 2.67 | -0.4 |
| 55.5 | -8.1 | .00 | -14.1 | -10.4 | 2.71 | -0.3 |
| 56.0 | -8.3 | .00 | -19.0 | -9.8 | 2.69 | -0.3 |
| 56.5 | -9.1 | .00 | -18.8 | -9.9 | 2.64 | -0.4 |
| 57.0 | -10.2 | .00 | -17.9 | -9.3 | 2.52 | -0.5 |
| 57.5 | -10.8 | .00 | -16.3 | -9.1 | 2.63 | -0.4 |
| 58.0 | -10.9 | .00 | -19.6 | -8.2 | 2.90 | 0.0 |
| 58.5 | -10.6 | .00 | -20.9 | -8.2 | 2.58 | -0.5 |
| 59.0 | -11.2 | .00 | -24.5 | -8.1 | 2.60 | -0.5 |
| 59.5 | -11.5 | .00 | -20.4 | -7.8 | 2.66 | -0.4 |
| 60.0 | -11.5 | .00 | -25.1 | -8.3 | 2.46 | -0.6 |
| 60.5 | -11.2 | .00 | -17.9 | -8.7 | 2.45 | -0.6 |
| 61.0 | -11.5 | .00 | -14.3 | -8.5 | 2.41 | -0.7 |
| 61.5 | -12.3 | .00 | -17.1 | -9.1 | 2.31 | -0.8 |
| 62.0 | -15.1 | .17 | -7.6 | -11.7 | 2.45 | -0.6 |
| 62.5 | -18.6 | .00 | -21.8 | -15.1 | 2.51 | -0.6 |
| 63.0 | -21.6 | .00 | -14.1 | -17.4 | 2.49 | -0.6 |
| 63.5 | -25.2 | .00 | -21.3 | -20.6 | 2.36 | -0.7 |
| 64.0 | -26.9 | .00 | -17.3 | -22.8 | 2.42 | -0.7 |

MAN-ACOUSTICS #20: SEA KNIGHT - LEVEL FLYOVER AT 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -19.3 | .11 | -9.2 | -11.7 | 2.94 | 0.0 |
| 1.0 | -18.6 | .27 | -5.7 | -9.8 | 2.39 | -0.7 |
| 1.5 | -17.9 | .93 | -0.3 | -9.3 | 2.30 | -0.8 |
| 2.0 | -16.7 | 1.52 | 1.8 | -8.8 | 2.47 | -0.6 |
| 2.5 | -15.9 | .80 | -0.9 | -8.7 | 2.36 | -0.7 |
| 3.0 | -15.7 | .83 | -0.8 | -8.8 | 2.63 | -0.4 |
| 3.5 | -15.7 | .70 | -1.5 | -8.5 | 2.62 | -0.4 |
| 4.0 | -16.8 | .42 | -3.7 | -8.5 | 2.51 | -0.6 |
| 4.5 | -16.5 | .28 | -5.4 | -8.1 | 2.66 | -0.4 |
| 5.0 | -16.1 | .63 | -1.9 | -8.0 | 2.90 | 0.0 |
| 5.5 | -14.6 | 2.32 | 3.7 | -7.9 | 3.14 | 0.2 |
| 6.0 | -13.6 | 1.48 | 1.7 | -7.9 | 3.53 | 0.6 |
| 6.5 | -13.4 | 1.90 | 2.8 | -7.6 | 3.62 | 0.7 |
| 7.0 | -13.4 | 1.97 | 3.0 | -7.4 | 3.72 | 0.8 |
| 7.5 | -13.0 | 1.11 | 0.5 | -7.1 | 3.64 | 0.7 |
| 8.0 | -14.2 | .59 | -2.2 | -6.7 | 3.33 | 0.4 |
| 8.5 | -14.9 | .16 | -7.9 | -6.4 | 2.63 | -0.4 |
| 9.0 | -15.3 | .29 | -5.3 | -6.5 | 2.39 | -0.7 |
| 9.5 | -14.7 | 1.07 | 0.3 | -6.7 | 2.57 | -0.5 |
| 10.0 | -14.7 | .47 | -3.2 | -7.0 | 2.87 | 0.0 |
| 10.5 | -14.7 | .18 | -7.2 | -7.0 | 3.04 | 0.1 |
| 11.0 | -13.8 | .23 | -6.3 | -6.7 | 3.11 | 0.1 |
| 11.5 | -11.9 | 2.51 | 4.0 | -6.5 | 3.65 | 0.8 |
| 12.0 | -11.6 | 2.90 | 4.6 | -6.1 | 4.30 | 1.5 |
| 12.5 | -11.5 | 1.90 | 2.8 | -6.1 | 4.32 | 1.5 |
| 13.0 | -11.3 | 1.93 | 2.9 | -6.4 | 3.91 | 1.0 |
| 13.5 | -15.1 | .25 | -5.9 | -6.1 | 3.11 | 0.1 |
| 14.0 | -14.9 | .29 | -5.3 | -6.0 | 2.87 | 0.0 |
| 14.5 | -11.7 | .93 | -0.3 | -6.5 | 3.40 | 0.5 |
| 15.0 | -12.3 | 2.23 | 3.5 | -5.8 | 3.22 | 0.3 |
| 15.5 | -12.9 | 2.42 | 3.8 | -5.7 | 3.73 | 0.8 |
| 16.0 | -12.8 | .70 | -1.5 | -5.5 | 3.34 | 0.4 |
| 16.5 | -10.8 | 2.15 | 3.3 | -5.8 | 3.78 | 0.9 |
| 17.0 | -8.7 | 3.37 | 5.3 | -6.1 | 3.94 | 1.1 |
| 17.5 | -5.3 | 7.25 | 8.6 | -5.5 | 5.60 | 3.0 |
| 18.0 | -3.4 | 8.14 | 9.1 | -5.2 | 6.66 | 4.2 |
| 18.5 | -4.5 | 7.45 | 8.7 | -4.6 | 4.94 | 2.2 |
| 19.0 | -1.1 | 9.23 | 9.7 | -3.5 | 7.11 | 4.7 |
| 19.5 | -2.2 | 7.20 | 8.6 | -3.6 | 6.90 | 4.5 |
| 20.0 | -1.6 | 6.13 | 7.9 | -3.2 | 9.40 | 7.3 |
| 20.5 | -1.7 | 6.51 | 8.1 | -3.5 | 8.78 | 6.6 |
| 21.0 | -1.4 | 6.34 | 8.0 | -2.6 | 11.14 | 9.3 |
| 21.5 | -0.9 | 6.99 | 8.4 | -1.2 | 11.37 | 9.6 |
| 22.0 | -0.4 | 3.94 | 6.0 | -1.2 | 11.97 | 10.3 |
| 22.5 | -0.5 | 4.75 | 6.8 | 0.0 | 10.05 | 8.1 |
| 23.0 | 0.0 | 2.71 | 4.3 | -0.4 | 11.76 | 10.0 |
| 23.5 | -0.6 | 2.28 | 3.6 | -0.2 | 11.52 | 9.7 |
| 24.0 | -2.0 | 2.54 | 4.1 | 0.0 | 9.69 | 7.7 |
| 24.5 | -2.6 | .81 | -0.9 | -0.4 | 7.27 | 4.9 |
| 25.0 | -3.7 | .99 | 0.0 | -0.3 | 6.09 | 3.5 |

MAN-ACOUSTICS #20: SEA KNIGHT - LEVEL FLYOVER AT 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -5.3 | .15 | -8.1 | -2.1 | 5.08 | 2.4 |
| 26.0 | -5.5 | .42 | -3.7 | -2.2 | 6.34 | 3.8 |
| 26.5 | -5.7 | .43 | -3.7 | -3.5 | 6.47 | 4.0 |
| 27.0 | -6.5 | .10 | -9.7 | -5.2 | 4.90 | 2.2 |
| 27.5 | -7.1 | .12 | -9.1 | -5.4 | 3.70 | 0.8 |
| 28.0 | -7.3 | .00 | -15.0 | -6.3 | 2.93 | 0.0 |
| 28.5 | -7.4 | .00 | -16.5 | -7.1 | 2.77 | -0.3 |
| 29.0 | -8.3 | .12 | -9.0 | -6.7 | 2.68 | -0.4 |
| 29.5 | -8.2 | .00 | -18.1 | -8.0 | 2.62 | -0.4 |
| 30.0 | -9.6 | .11 | -9.5 | -7.6 | 2.80 | -0.2 |
| 30.5 | -9.3 | .22 | -6.5 | -7.7 | 2.98 | 0.0 |
| 31.0 | -9.9 | .00 | -16.2 | -8.9 | 2.88 | 0.0 |
| 31.5 | -11.4 | .08 | -10.7 | -8.8 | 3.18 | 0.2 |
| 32.0 | -11.0 | .36 | -4.4 | -9.2 | 3.49 | 0.6 |
| 32.5 | -10.0 | .00 | -16.7 | -9.5 | 3.42 | 0.5 |
| 33.0 | -10.2 | 2.17 | 3.4 | -9.6 | 4.99 | 2.3 |
| 33.5 | -10.7 | 2.55 | 4.1 | -9.3 | 5.39 | 2.7 |
| 34.0 | -12.3 | .00 | -15.0 | -10.0 | 3.02 | 0.0 |
| 34.5 | -13.7 | .20 | -6.9 | -10.5 | 3.41 | 0.5 |
| 35.0 | -13.3 | 1.94 | 2.9 | -9.3 | 4.92 | 2.2 |
| 35.5 | -12.2 | .54 | -2.6 | -11.0 | 3.86 | 1.0 |
| 36.0 | -13.0 | .25 | -6.0 | -10.8 | 4.01 | 1.2 |
| 36.5 | -12.3 | 1.48 | 1.7 | -10.8 | 4.48 | 1.7 |
| 37.0 | -13.3 | .06 | -11.8 | -11.8 | 3.48 | 0.5 |
| 37.5 | -12.6 | .34 | -4.7 | -12.0 | 3.90 | 1.0 |
| 38.0 | -12.3 | .50 | -3.0 | -12.0 | 5.81 | 3.2 |
| 38.5 | -12.4 | .14 | -8.4 | -13.5 | 3.32 | 0.4 |
| 39.0 | -12.0 | .00 | -20.3 | -13.2 | 3.83 | 1.0 |
| 39.5 | -11.9 | .00 | -19.1 | -13.2 | 3.96 | 1.1 |
| 40.0 | -12.3 | .00 | -21.6 | -14.1 | 3.08 | 0.1 |
| 40.5 | -13.8 | .00 | -24.2 | -13.6 | 2.89 | 0.0 |
| 41.0 | -15.7 | .00 | -15.7 | -12.8 | 2.87 | 0.0 |
| 41.5 | -16.7 | .00 | -13.4 | -13.5 | 2.88 | 0.0 |
| 42.0 | -16.6 | .00 | -14.9 | -12.4 | 3.36 | 0.4 |
| 42.5 | -15.8 | .00 | -15.7 | -12.3 | 2.80 | -0.2 |
| 43.0 | -15.4 | .00 | -15.9 | -12.5 | 3.33 | 0.4 |
| 43.5 | -14.9 | .00 | -13.5 | -12.8 | 3.15 | 0.2 |
| 44.0 | -14.7 | .11 | -9.2 | -11.7 | 3.21 | 0.2 |
| 44.5 | -15.1 | .06 | -11.6 | -11.7 | 3.10 | 0.1 |

MAN-ACOUSTICS #21: SEA KNIGHT - SHALLOW TURN OPERATION

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -31.8 | .13 | -8.6 | -25.9 | 3.77 | 0.9 |
| 1.0 | -28.1 | .44 | -3.5 | -23.6 | 4.39 | 1.6 |
| 1.5 | -24.4 | 1.05 | 0.2 | -20.2 | 4.08 | 1.2 |
| 2.0 | -22.1 | 2.24 | 3.5 | -19.4 | 4.67 | 1.9 |
| 2.5 | -20.2 | 3.09 | 4.9 | -17.6 | 4.61 | 1.8 |
| 3.0 | -20.0 | 2.62 | 4.2 | -17.2 | 4.51 | 1.7 |
| 3.5 | -18.0 | 1.02 | 0.1 | -16.1 | 4.00 | 1.2 |
| 4.0 | -15.3 | 3.00 | 4.8 | -13.5 | 4.55 | 1.8 |
| 4.5 | -13.5 | 2.32 | 3.7 | -11.4 | 3.54 | 0.6 |
| 5.0 | -11.1 | 4.75 | 6.8 | -9.0 | 4.93 | 2.2 |
| 5.5 | -9.2 | 2.14 | 3.3 | -6.3 | 4.17 | 1.3 |
| 6.0 | -4.9 | 3.78 | 5.8 | -3.7 | 5.68 | 3.1 |
| 6.5 | -3.5 | 4.92 | 6.9 | -3.1 | 6.97 | 4.5 |
| 7.0 | -3.7 | .73 | -1.3 | -2.6 | 5.02 | 2.3 |
| 7.5 | -2.5 | 1.21 | 0.8 | -2.5 | 4.49 | 1.7 |
| 8.0 | -1.4 | 3.04 | 4.8 | -2.5 | 8.70 | 6.5 |
| 8.5 | -1.5 | 4.20 | 6.2 | -3.0 | 11.07 | 9.2 |
| 9.0 | -3.6 | 2.84 | 4.5 | -2.2 | 6.35 | 3.8 |
| 9.5 | -0.3 | 5.42 | 7.3 | -1.4 | 11.81 | 10.1 |
| 10.0 | 0.0 | 4.88 | 6.9 | -1.6 | 8.43 | 6.2 |
| 10.5 | -0.6 | 2.29 | 3.6 | -0.4 | 6.48 | 4.0 |
| 11.0 | -1.8 | 3.44 | 5.4 | -0.2 | 5.75 | 3.2 |
| 11.5 | -1.2 | 1.92 | 2.8 | 0.0 | 5.18 | 2.5 |
| 12.0 | -1.0 | 2.05 | 3.1 | -1.1 | 6.42 | 3.9 |
| 12.5 | -1.4 | 1.04 | 0.2 | 0.0 | 4.84 | 2.1 |
| 13.0 | -1.2 | .66 | -1.8 | -0.9 | 4.15 | 1.3 |
| 13.5 | -2.4 | .82 | -0.8 | -1.3 | 3.83 | 0.9 |
| 14.0 | -2.9 | .47 | -3.2 | -0.9 | 3.00 | 0.0 |
| 14.5 | -2.6 | .53 | -2.8 | -1.8 | 2.84 | -0.2 |
| 15.0 | -3.0 | .16 | -7.7 | -1.9 | 3.37 | 0.4 |
| 15.5 | -2.9 | .44 | -3.5 | -2.0 | 3.47 | 0.5 |
| 16.0 | -3.0 | .31 | -5.0 | -1.4 | 3.32 | 0.4 |
| 16.5 | -1.9 | .33 | -4.7 | -0.7 | 4.17 | 1.3 |
| 17.0 | -0.4 | .52 | -2.8 | -0.6 | 3.95 | 1.1 |
| 17.5 | -1.7 | .43 | -3.6 | -0.4 | 3.76 | 0.9 |
| 18.0 | -2.8 | .26 | -5.7 | -0.7 | 3.12 | 0.1 |
| 18.5 | -2.7 | .45 | -3.4 | -1.6 | 3.20 | 0.2 |
| 19.0 | -5.5 | .00 | -12.4 | -1.8 | 2.61 | -0.4 |
| 19.5 | -4.2 | .11 | -9.3 | -1.7 | 2.66 | -0.4 |
| 20.0 | -6.6 | .10 | -9.7 | -0.8 | 2.42 | -0.7 |
| 20.5 | -4.1 | .06 | -11.6 | -1.9 | 2.63 | -0.4 |
| 21.0 | -1.5 | .19 | -7.2 | -2.9 | 3.34 | 0.4 |
| 21.5 | -3.2 | .47 | -3.2 | -3.4 | 3.35 | 0.4 |
| 22.0 | -3.3 | .23 | -6.3 | -4.1 | 3.33 | 0.4 |
| 22.5 | -2.8 | .22 | -6.5 | -4.0 | 3.63 | 0.7 |
| 23.0 | -3.4 | .16 | -7.9 | -3.7 | 3.23 | 0.3 |
| 23.5 | -3.7 | .00 | -15.4 | -3.3 | 3.16 | 0.2 |
| 24.0 | -0.8 | .13 | -8.7 | -3.0 | 3.36 | 0.4 |
| 24.5 | -2.2 | .00 | -13.0 | -4.0 | 3.37 | 0.4 |
| 25.0 | -2.7 | .00 | -14.0 | -4.6 | 3.70 | 0.8 |

MAN-ACOUSTICS #21: SEA KNIGHT - SHALLOW TURN OPERATION

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -4.0 | .17 | -7.5 | -4.5 | 3.57 | 0.7 |
| 26.0 | -3.7 | .14 | -8.4 | -4.0 | 3.66 | 0.8 |
| 26.5 | -3.1 | .00 | -14.4 | -3.1 | 3.48 | 0.6 |
| 27.0 | -3.0 | .00 | -13.5 | -4.3 | 3.48 | 0.6 |
| 27.5 | -2.2 | .00 | -14.9 | -3.5 | 3.68 | 0.8 |
| 28.0 | -3.1 | .14 | -8.4 | -4.2 | 3.85 | 1.0 |
| 28.5 | -2.2 | .00 | -12.7 | -3.5 | 3.76 | 0.9 |
| 29.0 | -1.3 | .00 | -13.7 | -3.6 | 3.96 | 1.1 |
| 29.5 | -1.7 | .00 | -13.2 | -4.2 | 3.53 | 0.6 |
| 30.0 | -2.0 | .06 | -12.0 | -3.6 | 3.93 | 1.1 |
| 30.5 | -0.6 | .00 | -14.1 | -2.9 | 4.03 | 1.2 |
| 31.0 | -1.2 | .00 | -12.2 | -3.3 | 3.70 | 0.8 |
| 31.5 | -1.5 | .07 | -11.3 | -3.4 | 3.57 | 0.7 |
| 32.0 | -3.5 | .13 | -8.8 | -3.5 | 3.31 | 0.4 |
| 32.5 | -2.9 | .13 | -8.6 | -3.6 | 3.64 | 0.7 |
| 33.0 | -0.7 | .18 | -7.4 | -2.5 | 4.62 | 1.9 |
| 33.5 | -1.7 | .00 | -13.2 | -2.2 | 3.59 | 0.7 |
| 34.0 | -1.3 | .07 | -11.0 | -3.1 | 3.58 | 0.7 |
| 34.5 | -1.6 | .10 | -9.7 | -2.7 | 3.16 | 0.2 |
| 35.0 | -0.4 | .00 | -13.3 | -2.2 | 3.18 | 0.2 |
| 35.5 | -2.6 | .00 | -14.0 | -2.9 | 2.89 | 0.0 |
| 36.0 | -1.6 | .00 | -13.9 | -3.4 | 2.98 | 0.0 |
| 36.5 | -2.3 | .12 | -8.9 | -3.7 | 3.45 | 0.5 |
| 37.0 | -2.9 | .00 | -16.6 | -3.1 | 2.97 | 0.0 |
| 37.5 | -2.7 | .06 | -11.9 | -2.8 | 3.01 | 0.0 |
| 38.0 | -2.4 | .00 | -15.1 | -2.9 | 3.11 | 0.1 |
| 38.5 | -1.9 | .00 | -12.8 | -2.5 | 3.19 | 0.2 |
| 39.0 | -2.0 | .00 | -13.8 | -2.7 | 2.99 | 0.0 |
| 39.5 | -1.5 | .00 | -13.0 | -3.2 | 3.47 | 0.5 |
| 40.0 | -1.1 | .00 | -18.7 | -3.2 | 3.61 | 0.7 |
| 40.5 | -1.6 | .00 | -14.8 | -3.0 | 3.44 | 0.5 |
| 41.0 | -0.4 | .00 | -15.5 | -3.1 | 3.60 | 0.7 |
| 41.5 | -1.1 | .09 | -10.1 | -3.0 | 3.32 | 0.4 |
| 42.0 | -1.6 | .00 | -13.2 | -3.0 | 3.31 | 0.4 |
| 42.5 | -0.7 | .12 | -9.1 | -3.1 | 3.30 | 0.4 |
| 43.0 | -0.2 | .08 | -10.5 | -3.4 | 3.43 | 0.5 |
| 43.5 | -0.5 | .06 | -11.7 | -3.5 | 3.45 | 0.5 |
| 44.0 | -0.2 | .00 | -12.6 | -2.7 | 3.50 | 0.6 |
| 44.5 | -0.3 | .10 | -9.9 | -3.3 | 3.75 | 0.9 |
| 45.0 | -1.0 | .08 | -10.6 | -3.6 | 3.58 | 0.7 |
| 45.5 | 0.0 | .00 | -14.6 | -3.6 | 3.54 | 0.6 |
| 46.0 | -1.3 | .00 | -12.6 | -2.7 | 3.41 | 0.5 |
| 46.5 | -1.8 | .00 | -14.1 | -3.5 | 2.94 | 0.0 |
| 47.0 | -1.2 | .00 | -14.0 | -3.7 | 3.12 | 0.1 |
| 47.5 | -1.7 | .00 | -15.5 | -3.8 | 2.99 | 0.0 |
| 48.0 | -1.1 | .00 | -15.3 | -3.4 | 3.42 | 0.5 |
| 48.5 | 0.0 | .00 | -14.1 | -2.6 | 3.15 | 0.2 |
| 49.0 | 0.0 | .00 | -13.9 | -2.2 | 3.21 | 0.2 |
| 49.5 | -0.7 | .00 | -16.8 | -2.3 | 3.71 | 0.8 |
| 50.0 | -0.4 | .00 | -17.4 | -1.9 | 3.65 | 0.7 |

MAN-ACOUSTICS #21: SEA KNIGHT - SHALLOW TURN OPERATION

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 50.5 | -0.5 | .00 | -18.6 | -2.5 | 3.62 | 0.7 |
| 51.0 | -0.8 | .00 | -18.0 | -2.8 | 3.68 | 0.8 |
| 51.5 | -0.9 | .00 | -20.1 | -3.1 | 3.62 | 0.7 |
| 52.0 | -1.4 | .00 | -20.1 | -3.4 | 3.67 | 0.8 |
| 52.5 | -0.9 | .00 | -20.8 | -3.5 | 3.24 | 0.3 |
| 53.0 | -1.6 | .00 | -15.6 | -2.5 | 3.29 | 0.3 |
| 53.5 | -0.7 | .00 | -13.9 | -2.4 | 3.91 | 1.0 |
| 54.0 | -1.6 | .07 | -11.5 | -2.7 | 3.37 | 0.4 |
| 54.5 | -1.5 | .08 | -10.5 | -3.3 | 3.55 | 0.6 |
| 55.0 | -1.7 | .00 | -12.7 | -3.2 | 3.46 | 0.5 |
| 55.5 | -1.4 | .12 | -9.1 | -3.3 | 3.79 | 0.9 |
| 56.0 | -3.0 | .27 | -5.7 | -3.8 | 3.07 | 0.1 |
| 56.5 | -2.4 | .00 | -12.6 | -3.0 | 3.56 | 0.6 |
| 57.0 | -2.5 | .08 | -10.9 | -4.0 | 4.11 | 1.3 |
| 57.5 | -2.4 | .09 | -10.1 | -3.4 | 3.33 | 0.4 |
| 58.0 | -2.1 | .12 | -9.1 | -3.4 | 3.96 | 1.1 |
| 58.5 | -2.4 | .27 | -5.6 | -3.9 | 4.12 | 1.3 |
| 59.0 | -2.1 | .15 | -8.1 | -3.0 | 3.35 | 0.4 |
| 59.5 | -3.2 | .06 | -11.7 | -4.1 | 3.14 | 0.2 |
| 60.0 | -3.5 | .06 | -11.7 | -4.0 | 3.59 | 0.7 |
| 60.5 | -3.1 | .13 | -8.7 | -4.0 | 3.76 | 0.9 |
| 61.0 | -3.3 | .00 | -12.7 | -4.0 | 3.48 | 0.6 |
| 61.5 | -3.7 | .10 | -9.7 | -4.0 | 3.59 | 0.7 |
| 62.0 | -3.4 | .00 | -13.0 | -4.3 | 3.41 | 0.5 |
| 62.5 | -2.7 | .00 | -13.9 | -4.5 | 3.26 | 0.3 |
| 63.0 | -2.3 | .08 | -10.5 | -4.7 | 3.58 | 0.7 |
| 63.5 | -2.1 | .00 | -14.3 | -4.7 | 3.49 | 0.6 |
| 64.0 | -2.7 | .15 | -8.1 | -5.3 | 4.23 | 1.4 |
| 64.5 | -3.6 | .00 | -12.1 | -5.5 | 4.04 | 1.2 |
| 65.0 | -4.0 | .19 | -7.2 | -5.9 | 4.18 | 1.4 |
| 65.5 | -3.4 | .14 | -8.4 | -6.3 | 3.55 | 0.6 |
| 66.0 | -3.8 | .30 | -5.1 | -5.9 | 3.74 | 0.9 |
| 66.5 | -4.3 | .06 | -11.8 | -5.5 | 3.62 | 0.7 |
| 67.0 | -4.3 | .10 | -9.7 | -5.1 | 3.99 | 1.1 |
| 67.5 | -4.1 | .09 | -10.1 | -5.0 | 3.83 | 0.9 |
| 68.0 | -4.4 | .24 | -6.2 | -5.5 | 3.83 | 1.0 |
| 68.5 | -4.6 | .19 | -7.0 | -5.3 | 3.67 | 0.8 |
| 69.0 | -4.5 | .00 | -12.7 | -5.5 | 3.60 | 0.7 |
| 69.5 | -4.2 | .13 | -8.8 | -5.8 | 3.22 | 0.3 |
| 70.0 | -4.5 | .07 | -11.3 | -5.1 | 2.86 | -0.2 |
| 70.5 | -5.0 | .00 | -14.8 | -5.4 | 3.13 | 0.2 |
| 71.0 | -4.8 | .12 | -9.1 | -5.6 | 3.16 | 0.2 |
| 71.5 | -5.1 | .00 | -16.7 | -5.7 | 3.10 | 0.1 |
| 72.0 | -6.1 | .08 | -11.8 | -5.2 | 3.09 | 0.1 |
| 72.5 | -5.3 | .07 | -11.5 | -5.8 | 3.02 | 0.0 |
| 73.0 | -5.9 | .00 | -14.8 | -6.4 | 3.31 | 0.4 |
| 73.5 | -6.2 | .00 | -15.6 | -5.6 | 3.16 | 0.2 |
| 74.0 | -4.6 | .00 | -15.2 | -5.4 | 2.90 | 0.0 |
| 74.5 | -6.4 | .00 | -13.2 | -4.6 | 2.98 | 0.0 |
| 75.0 | -5.6 | .00 | -15.0 | -4.0 | 2.96 | 0.0 |

MAN-ACOUSTICS #21: SEA KNIGHT - SHALLOW TURN OPERATION

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 75.5 | -4.8 | .00 | -13.7 | -2.4 | 2.87 | 0.0 |
| 76.0 | -6.5 | .00 | -13.7 | -2.2 | 2.79 | -0.2 |
| 76.5 | -5.2 | .00 | -13.6 | -1.8 | 2.86 | -0.2 |
| 77.0 | -6.0 | .11 | -9.4 | -1.3 | 2.69 | -0.3 |
| 77.5 | -6.4 | .00 | -12.7 | -1.6 | 2.46 | -0.6 |
| 78.0 | -8.5 | .07 | -11.1 | -2.3 | 2.58 | -0.5 |
| 78.5 | -6.4 | .00 | -13.3 | -3.1 | 3.01 | 0.0 |
| 79.0 | -5.3 | .00 | -15.0 | -3.5 | 3.13 | 0.2 |
| 79.5 | -4.3 | .08 | -10.9 | -3.7 | 3.56 | 0.6 |
| 80.0 | -5.6 | .00 | -12.8 | -4.3 | 3.43 | 0.5 |
| 80.5 | -5.7 | .00 | -14.1 | -4.8 | 3.36 | 0.4 |
| 81.0 | -6.5 | .06 | -11.9 | -5.1 | 3.04 | 0.1 |
| 81.5 | -6.1 | .08 | -10.6 | -4.8 | 2.90 | 0.0 |
| 82.0 | -6.0 | .00 | -12.4 | -4.2 | 2.81 | -0.2 |
| 82.5 | -8.0 | .07 | -11.2 | -4.8 | 2.60 | -0.5 |
| 83.0 | -9.4 | .22 | -6.4 | -5.5 | 3.12 | 0.1 |
| 83.5 | -8.0 | .67 | -1.7 | -4.3 | 3.84 | 1.0 |
| 84.0 | -7.5 | .51 | -2.9 | -4.8 | 3.03 | 0.0 |
| 84.5 | -10.1 | .10 | -9.9 | -5.1 | 2.82 | -0.2 |
| 85.0 | -9.3 | .20 | -6.9 | -4.8 | 3.23 | 0.3 |
| 85.5 | -8.7 | .85 | -0.7 | -4.6 | 3.25 | 0.3 |
| 86.0 | -8.0 | .71 | -1.5 | -5.2 | 3.96 | 1.1 |
| 86.5 | -8.2 | .22 | -6.6 | -4.5 | 3.92 | 1.1 |
| 87.0 | -7.4 | 1.06 | 0.3 | -3.9 | 4.93 | 2.2 |
| 87.5 | -6.0 | .59 | -2.2 | -3.4 | 4.10 | 1.3 |
| 88.0 | -8.2 | .16 | -7.9 | -3.5 | 4.15 | 1.3 |
| 88.5 | -8.0 | .20 | -6.8 | -4.1 | 4.03 | 1.2 |
| 89.0 | -8.0 | .32 | -4.9 | -4.0 | 5.13 | 2.4 |
| 89.5 | -9.0 | .51 | -2.9 | -4.2 | 5.17 | 2.5 |
| 90.0 | -8.0 | 1.87 | 2.7 | -4.9 | 7.20 | 4.8 |
| 90.5 | -7.9 | .91 | -0.4 | -4.2 | 6.15 | 3.6 |
| 91.0 | -8.8 | .12 | -9.0 | -4.6 | 4.20 | 1.4 |
| 91.5 | -6.3 | 1.41 | 1.5 | -5.1 | 6.28 | 3.8 |
| 92.0 | -6.7 | .76 | -1.2 | -5.1 | 6.51 | 4.0 |
| 92.5 | -7.8 | .56 | -2.5 | -4.3 | 5.45 | 2.8 |
| 93.0 | -8.6 | .71 | -1.5 | -4.5 | 5.86 | 3.3 |
| 93.5 | -8.2 | 1.32 | 1.2 | -4.6 | 7.50 | 5.2 |
| 94.0 | -8.4 | 1.83 | 2.6 | -4.9 | 7.07 | 4.7 |
| 94.5 | -8.4 | 1.82 | 2.6 | -4.6 | 8.98 | 6.8 |
| 95.0 | -9.4 | 1.04 | 0.2 | -4.7 | 7.43 | 5.1 |
| 95.5 | -11.1 | .21 | -6.6 | -5.7 | 5.43 | 2.8 |
| 96.0 | -13.2 | .00 | -12.0 | -6.8 | 4.99 | 2.3 |
| 96.5 | -13.9 | .16 | -7.8 | -7.0 | 5.91 | 3.3 |
| 97.0 | -12.7 | .86 | -0.6 | -7.1 | 6.75 | 4.3 |
| 97.5 | -15.0 | .15 | -8.2 | -9.2 | 6.60 | 4.1 |
| 98.0 | -17.2 | .00 | -17.0 | -11.3 | 3.33 | 0.4 |

MAN-ACOUSTICS #22: HUGHES 300 - STEEP TURN OPERATION

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -16.2 | .00 | -18.9 | -10.2 | 2.96 | 0.0 |
| 1.0 | -12.1 | .00 | -18.1 | -6.1 | 2.85 | -0.2 |
| 1.5 | -10.5 | .00 | -28.0 | -5.2 | 2.48 | -0.6 |
| 2.0 | -11.2 | .00 | -26.7 | -5.1 | 2.53 | -0.5 |
| 2.5 | -11.3 | .00 | -29.0 | -5.5 | 2.86 | -0.2 |
| 3.0 | -11.7 | .00 | -24.9 | -5.8 | 2.82 | -0.2 |
| 3.5 | -13.0 | .00 | -24.3 | -5.8 | 2.91 | 0.0 |
| 4.0 | -12.5 | .00 | -28.3 | -5.7 | 2.91 | 0.0 |
| 4.5 | -10.9 | .00 | -25.1 | -5.6 | 3.16 | 0.2 |
| 5.0 | -10.2 | .00 | -25.2 | -5.7 | 3.34 | 0.4 |
| 5.5 | -10.3 | .00 | -23.2 | -5.1 | 3.35 | 0.4 |
| 6.0 | -9.9 | .00 | -26.9 | -4.8 | 3.09 | 0.1 |
| 6.5 | -8.7 | .00 | -27.2 | -4.1 | 3.06 | 0.1 |
| 7.0 | -9.2 | .00 | -25.5 | -3.5 | 2.76 | -0.3 |
| 7.5 | -9.6 | .00 | -31.5 | -3.4 | 2.52 | -0.5 |
| 8.0 | -8.7 | .00 | -27.0 | -3.5 | 2.83 | -0.2 |
| 8.5 | -8.7 | .00 | -25.4 | -3.4 | 3.26 | 0.3 |
| 9.0 | -10.5 | .00 | -28.0 | -3.3 | 3.00 | 0.0 |
| 9.5 | -9.8 | .00 | -29.0 | -3.7 | 3.24 | 0.3 |
| 10.0 | -8.6 | .00 | -25.4 | -4.0 | 3.28 | 0.3 |
| 10.5 | -8.3 | .00 | -28.7 | -4.0 | 3.82 | 0.9 |
| 11.0 | -8.2 | .00 | -26.3 | -4.7 | 3.74 | 0.9 |
| 11.5 | -8.3 | .00 | -27.0 | -3.6 | 3.56 | 0.6 |
| 12.0 | -8.6 | .00 | -24.3 | -3.3 | 3.32 | 0.4 |
| 12.5 | -8.0 | .00 | -27.3 | -3.4 | 3.29 | 0.3 |
| 13.0 | -7.1 | .00 | -27.0 | -2.9 | 3.37 | 0.4 |
| 13.5 | -7.0 | .00 | -28.4 | -2.8 | 3.08 | 0.1 |
| 14.0 | -6.6 | .00 | -26.5 | -2.4 | 3.07 | 0.1 |
| 14.5 | -6.3 | .00 | -27.6 | -3.0 | 3.02 | 0.0 |
| 15.0 | -6.9 | .00 | -25.0 | -3.2 | 2.89 | 0.0 |
| 15.5 | -6.8 | .00 | -25.3 | -3.6 | 2.89 | 0.0 |
| 16.0 | -6.3 | .00 | -30.9 | -3.7 | 2.69 | -0.3 |
| 16.5 | -5.8 | .00 | -27.2 | -3.6 | 2.92 | 0.0 |
| 17.0 | -5.6 | .00 | -26.7 | -3.9 | 2.98 | 0.0 |
| 17.5 | -5.2 | .00 | -26.8 | -3.7 | 2.86 | -0.2 |
| 18.0 | -3.7 | .00 | -24.4 | -2.9 | 2.74 | -0.3 |
| 18.5 | -3.5 | .00 | -26.5 | -2.8 | 2.84 | -0.2 |
| 19.0 | -3.2 | .00 | -22.0 | -2.4 | 2.58 | -0.5 |
| 19.5 | -2.7 | .00 | -25.7 | -2.6 | 2.89 | 0.0 |
| 20.0 | -2.2 | .00 | -24.6 | -3.0 | 3.13 | 0.2 |
| 20.5 | -1.7 | .00 | -22.8 | -3.9 | 3.13 | 0.2 |
| 21.0 | -1.8 | .00 | -22.5 | -3.6 | 3.01 | 0.0 |
| 21.5 | -0.8 | .00 | -22.3 | -2.5 | 3.10 | 0.1 |
| 22.0 | -0.7 | .00 | -22.0 | -2.3 | 2.85 | -0.2 |
| 22.5 | -0.9 | .00 | -22.3 | -2.0 | 2.87 | 0.0 |
| 23.0 | -2.3 | .00 | -22.2 | -1.7 | 3.04 | 0.0 |
| 23.5 | -1.7 | .00 | -22.6 | -1.9 | 2.86 | -0.2 |
| 24.0 | -1.8 | .00 | -22.5 | -2.3 | 3.09 | 0.1 |
| 24.5 | -1.6 | .00 | -24.7 | -1.6 | 2.85 | -0.2 |
| 25.0 | -1.9 | .00 | -19.5 | -2.5 | 2.79 | -0.2 |

MAN-ACOUSTICS #22: HUGHES 300 - STEEP TURN OPERATION

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -0.8 | .00 | -23.4 | -2.2 | 2.96 | 0.0 |
| 26.0 | -0.9 | .00 | -24.5 | -1.9 | 2.92 | 0.0 |
| 26.5 | -0.7 | .00 | -20.0 | -1.9 | 2.98 | 0.0 |
| 27.0 | 0.0 | .00 | -22.3 | -2.3 | 2.93 | 0.0 |
| 27.5 | -0.7 | .00 | -23.6 | -2.9 | 3.07 | 0.1 |
| 28.0 | -1.1 | .00 | -23.9 | -3.0 | 3.10 | 0.1 |
| 28.5 | -0.5 | .00 | -24.4 | -2.5 | 3.19 | 0.2 |
| 29.0 | -1.0 | .00 | -22.2 | -2.6 | 2.92 | 0.0 |
| 29.5 | -1.3 | .00 | -21.8 | -2.6 | 2.96 | 0.0 |
| 30.0 | -1.4 | .00 | -25.0 | -2.2 | 3.01 | 0.0 |
| 30.5 | -0.8 | .00 | -22.2 | -2.5 | 3.17 | 0.2 |
| 31.0 | -1.0 | .00 | -22.1 | -2.3 | 3.48 | 0.6 |
| 31.5 | -0.8 | .00 | -23.0 | -2.7 | 3.21 | 0.2 |
| 32.0 | -1.0 | .00 | -22.6 | -2.4 | 3.25 | 0.3 |
| 32.5 | -1.0 | .00 | -23.6 | -3.1 | 3.05 | 0.1 |
| 33.0 | -0.7 | .00 | -19.9 | -2.7 | 3.35 | 0.4 |
| 33.5 | 0.0 | .00 | -23.2 | -2.8 | 3.13 | 0.2 |
| 34.0 | -0.9 | .00 | -21.9 | -2.4 | 3.09 | 0.1 |
| 34.5 | -0.6 | .00 | -24.2 | -2.6 | 3.17 | 0.2 |
| 35.0 | -0.3 | .00 | -25.6 | -2.4 | 3.24 | 0.3 |
| 35.5 | -1.5 | .00 | -23.6 | -2.3 | 3.10 | 0.1 |
| 36.0 | -0.9 | .00 | -26.7 | -3.1 | 2.93 | 0.0 |
| 36.5 | -0.8 | .00 | -23.0 | -3.2 | 2.98 | 0.0 |
| 37.0 | -0.5 | .00 | -23.1 | -3.0 | 3.15 | 0.2 |
| 37.5 | -0.6 | .00 | -21.3 | -3.2 | 3.16 | 0.2 |
| 38.0 | -0.6 | .00 | -20.0 | -3.8 | 3.06 | 0.1 |
| 38.5 | -0.8 | .00 | -21.5 | -3.6 | 3.12 | 0.1 |
| 39.0 | -0.9 | .00 | -23.2 | -3.5 | 2.92 | 0.0 |
| 39.5 | -0.5 | .00 | -24.8 | -2.4 | 2.93 | 0.0 |
| 40.0 | -1.1 | .00 | -25.4 | -2.6 | 2.90 | 0.0 |
| 40.5 | -2.0 | .00 | -24.7 | -2.6 | 3.04 | 0.1 |
| 41.0 | -1.2 | .00 | -22.2 | -2.3 | 3.06 | 0.1 |
| 41.5 | -1.5 | .00 | -26.2 | -2.1 | 2.78 | -0.2 |
| 42.0 | -1.6 | .00 | -26.1 | -2.3 | 2.89 | 0.0 |
| 42.5 | -0.8 | .00 | -26.1 | -2.2 | 2.99 | 0.0 |
| 43.0 | -0.8 | .00 | -22.5 | -1.6 | 2.83 | -0.2 |
| 43.5 | -0.7 | .00 | -25.7 | -1.2 | 3.04 | 0.1 |
| 44.0 | -1.9 | .00 | -26.3 | -1.8 | 2.96 | 0.0 |
| 44.5 | -2.7 | .00 | -22.0 | -2.3 | 2.88 | 0.0 |
| 45.0 | -2.4 | .00 | -25.0 | -2.7 | 2.77 | -0.3 |
| 45.5 | -1.6 | .00 | -23.0 | -2.4 | 2.78 | -0.2 |
| 46.0 | -1.1 | .00 | -23.5 | -2.5 | 2.99 | 0.0 |
| 46.5 | -0.3 | .00 | -24.4 | -1.8 | 3.22 | 0.3 |
| 47.0 | -0.8 | .00 | -24.0 | -2.1 | 3.00 | 0.0 |
| 47.5 | -0.8 | .00 | -25.8 | -2.0 | 2.99 | 0.0 |
| 48.0 | -0.9 | .00 | -24.3 | -2.2 | 3.02 | 0.0 |
| 48.5 | -0.7 | .00 | -25.8 | -2.3 | 3.02 | 0.0 |
| 49.0 | -1.6 | .00 | -27.9 | -2.4 | 2.97 | 0.0 |
| 49.5 | -1.5 | .00 | -23.2 | -2.7 | 2.83 | -0.2 |
| 50.0 | -1.4 | .00 | -20.7 | -3.1 | 2.80 | -0.2 |

MAN-ACOUSTICS #22: HUGHES 300 - STEEP TURN OPERATION

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 50.5 | -0.8 | .00 | -21.3 | -3.1 | 3.38 | 0.4 |
| 51.0 | -0.7 | .00 | -19.3 | -2.4 | 3.22 | 0.3 |
| 51.5 | 0.0 | .00 | -20.5 | -2.0 | 3.02 | 0.0 |
| 52.0 | -0.4 | .00 | -24.3 | -2.2 | 3.14 | 0.2 |
| 52.5 | -0.3 | .00 | -20.2 | -2.1 | 3.33 | 0.4 |
| 53.0 | -0.5 | .00 | -23.6 | -1.7 | 3.24 | 0.3 |
| 53.5 | -0.7 | .00 | -21.3 | -1.6 | 3.32 | 0.4 |
| 54.0 | -0.6 | .00 | -19.7 | -2.0 | 3.62 | 0.7 |
| 54.5 | -0.8 | .00 | -17.9 | -2.7 | 3.84 | 1.0 |
| 55.0 | -2.7 | .00 | -17.3 | -2.4 | 3.91 | 1.0 |
| 55.5 | -0.6 | .00 | -21.0 | -1.5 | 4.65 | 1.9 |
| 56.0 | -0.5 | .00 | -19.9 | -2.7 | 4.37 | 1.6 |
| 56.5 | -0.5 | .00 | -18.9 | -1.8 | 4.22 | 1.4 |
| 57.0 | -1.6 | .00 | -18.3 | -1.5 | 4.40 | 1.6 |
| 57.5 | -3.4 | .00 | -14.5 | -2.8 | 3.60 | 0.7 |
| 58.0 | -3.8 | .06 | -12.0 | -1.3 | 3.01 | 0.0 |
| 58.5 | -4.7 | .00 | -16.3 | 0.0 | 2.37 | -0.7 |
| 59.0 | -2.8 | .00 | -15.2 | -1.2 | 2.83 | -0.2 |
| 59.5 | -3.5 | .00 | -17.9 | -1.9 | 3.36 | 0.4 |
| 60.0 | -4.2 | .00 | -13.0 | -2.6 | 3.34 | 0.4 |
| 60.5 | -4.4 | .00 | -14.4 | -1.1 | 2.68 | -0.4 |
| 61.0 | -3.6 | .00 | -17.3 | -2.2 | 2.83 | -0.2 |
| 61.5 | -2.6 | .00 | -13.1 | -2.0 | 3.16 | 0.2 |
| 62.0 | -4.7 | .00 | -14.2 | -2.1 | 2.50 | -0.6 |
| 62.5 | -6.1 | .00 | -13.2 | -1.0 | 2.15 | -1.0 |
| 63.0 | -8.0 | .00 | -15.7 | -0.7 | 2.10 | -1.0 |
| 63.5 | -8.4 | .00 | -20.9 | -1.0 | 2.03 | -1.1 |
| 64.0 | -6.3 | .00 | -12.3 | -1.6 | 2.16 | -0.9 |
| 64.5 | -5.2 | .07 | -11.1 | -1.6 | 2.28 | -0.8 |
| 65.0 | -5.0 | .00 | -13.3 | -1.4 | 2.39 | -0.7 |
| 65.5 | -3.8 | .00 | -12.7 | -2.9 | 2.80 | -0.2 |
| 66.0 | -5.3 | .00 | -15.4 | -2.7 | 2.56 | -0.5 |
| 66.5 | -7.5 | .00 | -18.2 | -2.5 | 2.41 | -0.7 |
| 67.0 | -7.6 | .00 | -15.9 | -1.7 | 2.28 | -0.8 |
| 67.5 | -8.3 | .00 | -29.0 | 0.0 | 2.10 | -1.0 |
| 68.0 | -6.3 | .07 | -11.2 | -0.2 | 2.04 | -1.1 |
| 68.5 | -4.1 | .07 | -11.0 | -0.8 | 2.25 | -0.9 |
| 69.0 | -3.4 | .00 | -13.8 | -2.0 | 2.81 | -0.2 |
| 69.5 | -4.2 | .00 | -16.7 | -2.0 | 2.69 | -0.3 |
| 70.0 | -6.5 | .00 | -13.0 | -2.3 | 2.60 | -0.4 |
| 70.5 | -7.1 | .00 | -17.9 | -2.8 | 2.38 | -0.7 |
| 71.0 | -7.0 | .00 | -15.1 | -4.1 | 2.41 | -0.7 |
| 71.5 | -5.7 | .00 | -12.3 | -5.5 | 3.06 | 0.1 |
| 72.0 | -5.5 | .09 | -10.4 | -4.7 | 3.24 | 0.3 |
| 72.5 | -7.2 | .00 | -16.9 | -3.0 | 2.52 | -0.5 |
| 73.0 | -8.4 | .00 | -17.3 | -2.9 | 2.50 | -0.6 |
| 73.5 | -9.6 | .00 | -24.5 | -2.1 | 2.13 | -1.0 |
| 74.0 | -8.9 | .00 | -23.0 | -1.7 | 2.08 | -1.0 |
| 74.5 | -8.4 | .00 | -22.4 | -1.9 | 2.04 | -1.1 |
| 75.0 | -7.9 | .00 | -12.5 | -2.0 | 2.07 | -1.1 |

MAN-ACOUSTICS #22: HUGHES 300 - STEEP TURN OPERATION

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 75.5 | -7.7 | .00 | -16.2 | -2.6 | 2.11 | -1.0 |
| 76.0 | -7.2 | .00 | -14.8 | -2.1 | 2.41 | -0.7 |
| 76.5 | -6.4 | .08 | -10.9 | -1.7 | 2.28 | -0.8 |
| 77.0 | -8.2 | .00 | -15.9 | -2.3 | 2.33 | -0.8 |
| 77.5 | -8.2 | .00 | -15.4 | -3.2 | 2.61 | -0.4 |
| 78.0 | -10.1 | .00 | -12.2 | -4.3 | 3.22 | 0.3 |
| 78.5 | -11.9 | .00 | -15.1 | -6.8 | 3.10 | 0.1 |
| 79.0 | -13.8 | .00 | -19.4 | -8.6 | 2.38 | -0.7 |
| 79.5 | -15.1 | .00 | -14.5 | -9.1 | 2.50 | -0.6 |
| 80.0 | -16.7 | .00 | -12.9 | -11.6 | 2.28 | -0.8 |

MAN-ACOUSTICS #23: BELL UH-1H (HUEY) - ROUTINE TAKEOFF

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -13.5 | 1.71 | 2.3 | -7.2 | 3.01 | 0.0 |
| 1.0 | -12.5 | 3.64 | 5.6 | -6.3 | 3.14 | 0.2 |
| 1.5 | -10.8 | 4.26 | 6.3 | -6.5 | 3.25 | 0.3 |
| 2.0 | -13.4 | 3.45 | 5.4 | -5.6 | 2.69 | -0.3 |
| 2.5 | -13.8 | 4.29 | 6.3 | -6.2 | 2.96 | 0.0 |
| 3.0 | -13.3 | 4.96 | 7.0 | -5.6 | 2.45 | -0.6 |
| 3.5 | -15.5 | .44 | -3.5 | -5.0 | 2.73 | -0.3 |
| 4.0 | -15.6 | .14 | -8.5 | -5.3 | 2.58 | -0.5 |
| 4.5 | -14.9 | 1.09 | 0.4 | -4.8 | 2.48 | -0.6 |
| 5.0 | -15.2 | .15 | -8.2 | -5.4 | 2.42 | -0.7 |
| 5.5 | -14.4 | .30 | -5.1 | -4.4 | 2.66 | -0.4 |
| 6.0 | -14.7 | .43 | -3.6 | -4.5 | 2.66 | -0.4 |
| 6.5 | -13.9 | .58 | -2.3 | -4.7 | 2.76 | -0.3 |
| 7.0 | -14.6 | .41 | -3.8 | -3.9 | 2.97 | 0.0 |
| 7.5 | -13.9 | .16 | -7.8 | -4.3 | 2.80 | -0.2 |
| 8.0 | -13.7 | .23 | -6.2 | -3.9 | 2.76 | -0.3 |
| 8.5 | -12.8 | .44 | -3.5 | -3.2 | 3.08 | 0.1 |
| 9.0 | -12.7 | .34 | -4.6 | -3.5 | 2.72 | -0.3 |
| 9.5 | -11.5 | .25 | -5.9 | -3.0 | 3.04 | 0.0 |
| 10.0 | -9.4 | .47 | -3.3 | -3.5 | 2.75 | -0.3 |
| 10.5 | -7.5 | .40 | -3.9 | -3.4 | 3.11 | 0.1 |
| 11.0 | -7.9 | .33 | -4.8 | -3.1 | 3.53 | 0.6 |
| 11.5 | -8.8 | .54 | -2.7 | -2.7 | 3.14 | 0.2 |
| 12.0 | -10.5 | .69 | -1.6 | -1.5 | 3.34 | 0.4 |
| 12.5 | -11.0 | .66 | -1.8 | -1.4 | 3.25 | 0.3 |
| 13.0 | -10.8 | .62 | -2.1 | -0.8 | 3.30 | 0.3 |
| 13.5 | -8.9 | .67 | -1.7 | -1.0 | 3.59 | 0.7 |
| 14.0 | -6.8 | .43 | -3.7 | -0.6 | 3.15 | 0.2 |
| 14.5 | -6.3 | .40 | -4.0 | -0.5 | 3.42 | 0.5 |
| 15.0 | -7.7 | .36 | -4.3 | -0.4 | 3.39 | 0.5 |
| 15.5 | -8.0 | .49 | -3.0 | 0.0 | 2.80 | -0.2 |
| 16.0 | -5.5 | 2.05 | 3.1 | -0.2 | 3.18 | 0.2 |
| 16.5 | -4.6 | .46 | -3.3 | -0.4 | 2.93 | 0.0 |
| 17.0 | -1.9 | .82 | -0.8 | -0.7 | 2.81 | -0.2 |
| 17.5 | -2.1 | .96 | -0.2 | -0.6 | 2.65 | -0.4 |
| 18.0 | -1.4 | .52 | -2.8 | -2.2 | 2.69 | -0.3 |
| 18.5 | -1.2 | .15 | -8.1 | -5.1 | 3.34 | 0.4 |
| 19.0 | 0.0 | .14 | -8.5 | -5.6 | 4.22 | 1.4 |
| 19.5 | -1.0 | .00 | -16.5 | -4.4 | 3.29 | 0.3 |
| 20.0 | -1.3 | .00 | -19.3 | -5.1 | 2.69 | -0.3 |
| 20.5 | -1.7 | .06 | -11.8 | -6.3 | 3.08 | 0.1 |
| 21.0 | -3.4 | .09 | -10.0 | -7.1 | 2.74 | -0.3 |
| 21.5 | -4.9 | .00 | -16.1 | -8.6 | 2.91 | 0.0 |
| 22.0 | -6.4 | .00 | -12.4 | -8.4 | 2.63 | -0.4 |
| 22.5 | -8.3 | .17 | -7.7 | -9.0 | 2.97 | 0.0 |
| 23.0 | -11.1 | .00 | -18.1 | -8.8 | 2.60 | -0.5 |
| 23.5 | -9.3 | .63 | -2.0 | -9.9 | 2.95 | 0.0 |
| 24.0 | -12.0 | .00 | -20.0 | -10.4 | 2.95 | 0.0 |
| 24.5 | -12.1 | .00 | -16.1 | -10.1 | 2.72 | -0.3 |
| 25.0 | -13.4 | .00 | -22.8 | -10.5 | 2.81 | -0.2 |

MAN-ACOUSTICS #23: BELL UH-1H (HUEY) - ROUTINE TAKEOFF

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -14.8 | .00 | -25.1 | -8.8 | 2.40 | -0.7 |
| 26.0 | -16.0 | .00 | -20.3 | -10.9 | 2.64 | -0.4 |
| 26.5 | -16.9 | .00 | -21.4 | -10.0 | 2.44 | -0.6 |
| 27.0 | -16.8 | .00 | -26.5 | -10.5 | 2.69 | -0.3 |

MAN-ACOUSTICS #24: HUGHES 300 - LEVEL FLYOVER AT 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -20.1 | .10 | -9.7 | -15.5 | 3.46 | 0.5 |
| 1.0 | -14.6 | .00 | -19.0 | -10.3 | 2.75 | -0.3 |
| 1.5 | -13.7 | .00 | -23.7 | -9.0 | 2.53 | -0.5 |
| 2.0 | -12.9 | .00 | -28.0 | -8.6 | 2.59 | -0.5 |
| 2.5 | -13.4 | .00 | -23.5 | -8.2 | 2.62 | -0.4 |
| 3.0 | -12.9 | .00 | -26.3 | -7.9 | 2.72 | -0.3 |
| 3.5 | -12.6 | .00 | -28.1 | -7.2 | 2.33 | -0.8 |
| 4.0 | -12.8 | .00 | -25.2 | -6.8 | 2.34 | -0.8 |
| 4.5 | -12.0 | .00 | -20.6 | -6.4 | 2.43 | -0.6 |
| 5.0 | -10.3 | .00 | -24.5 | -6.5 | 2.41 | -0.7 |
| 5.5 | -10.2 | .00 | -29.7 | -7.0 | 2.50 | -0.6 |
| 6.0 | -9.9 | .00 | -22.8 | -6.5 | 2.50 | -0.6 |
| 6.5 | -8.9 | .00 | -25.8 | -5.7 | 2.82 | -0.2 |
| 7.0 | -8.2 | .00 | -26.5 | -5.5 | 2.95 | 0.0 |
| 7.5 | -9.1 | .00 | -24.2 | -5.7 | 2.65 | -0.4 |
| 8.0 | -10.3 | .00 | -23.8 | -5.9 | 2.39 | -0.7 |
| 8.5 | -9.5 | .00 | -27.5 | -5.8 | 2.53 | -0.5 |
| 9.0 | -10.4 | .00 | -24.3 | -5.8 | 2.68 | -0.4 |
| 9.5 | -11.1 | .00 | -22.4 | -5.7 | 2.38 | -0.7 |
| 10.0 | -8.7 | .00 | -22.6 | -5.1 | 2.81 | -0.2 |
| 10.5 | -7.3 | .00 | -24.8 | -5.2 | 3.03 | 0.0 |
| 11.0 | -6.3 | .00 | -26.0 | -5.0 | 2.89 | 0.0 |
| 11.5 | -6.8 | .00 | -21.6 | -4.9 | 2.66 | -0.4 |
| 12.0 | -7.5 | .00 | -24.2 | -5.2 | 2.63 | -0.4 |
| 12.5 | -7.8 | .00 | -28.3 | -5.2 | 2.89 | 0.0 |
| 13.0 | -8.2 | .00 | -25.9 | -4.9 | 2.85 | -0.2 |
| 13.5 | -7.8 | .00 | -24.8 | -4.4 | 2.66 | -0.4 |
| 14.0 | -7.6 | .00 | -27.8 | -4.6 | 2.81 | -0.2 |
| 14.5 | -8.5 | .00 | -24.3 | -5.2 | 2.88 | 0.0 |
| 15.0 | -9.3 | .00 | -26.3 | -5.3 | 2.77 | -0.3 |
| 15.5 | -9.2 | .00 | -26.7 | -4.3 | 2.88 | 0.0 |
| 16.0 | -9.2 | .00 | -26.0 | -4.4 | 2.82 | -0.2 |
| 16.5 | -8.5 | .00 | -26.3 | -4.0 | 2.65 | -0.4 |
| 17.0 | -8.7 | .00 | -25.1 | -3.7 | 2.83 | -0.2 |
| 17.5 | -8.4 | .00 | -25.9 | -3.4 | 2.71 | -0.3 |
| 18.0 | -6.9 | .00 | -23.0 | -4.0 | 2.96 | 0.0 |
| 18.5 | -4.9 | .00 | -24.7 | -4.1 | 3.37 | 0.4 |
| 19.0 | -5.4 | .00 | -26.9 | -4.2 | 3.05 | 0.1 |
| 19.5 | -5.1 | .00 | -24.7 | -3.9 | 3.14 | 0.2 |
| 20.0 | -5.1 | .00 | -23.3 | -4.1 | 3.01 | 0.0 |
| 20.5 | -5.2 | .00 | -23.6 | -3.7 | 2.85 | -0.2 |
| 21.0 | -5.0 | .00 | -28.4 | -3.4 | 2.71 | -0.3 |
| 21.5 | -5.0 | .00 | -20.5 | -3.9 | 2.58 | -0.5 |
| 22.0 | -3.6 | .00 | -22.5 | -4.5 | 2.62 | -0.4 |
| 22.5 | -4.1 | .00 | -27.0 | -4.1 | 2.64 | -0.4 |
| 23.0 | -3.5 | .00 | -29.9 | -4.2 | 2.55 | -0.5 |
| 23.5 | -2.5 | .00 | -25.1 | -3.7 | 2.68 | -0.4 |
| 24.0 | -1.8 | .00 | -22.9 | -3.6 | 2.81 | -0.2 |
| 24.5 | -2.5 | .00 | -21.8 | -3.8 | 2.97 | 0.0 |
| 25.0 | -1.7 | .00 | -30.6 | -2.8 | 2.86 | -0.2 |

MAN-ACOUSTICS #24 HUGHES 300 - LEVEL FLYOVER AT 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -2.2 | .00 | -28.0 | -2.6 | 2.73 | -0.3 |
| 26.0 | -1.5 | .00 | -26.3 | -1.8 | 2.56 | -0.5 |
| 26.5 | -2.0 | .00 | -22.9 | -1.4 | 2.46 | -0.6 |
| 27.0 | -1.6 | .00 | -22.7 | -0.7 | 2.49 | -0.6 |
| 27.5 | -1.8 | .00 | -24.9 | -0.5 | 2.37 | -0.7 |
| 28.0 | -1.6 | .00 | -24.4 | 0.0 | 2.26 | -0.8 |
| 28.5 | -1.7 | .00 | -25.1 | -1.2 | 2.52 | -0.5 |
| 29.0 | -2.1 | .00 | -23.9 | -0.8 | 2.36 | -0.7 |
| 29.5 | -2.4 | .00 | -25.5 | -1.3 | 2.49 | -0.6 |
| 30.0 | -1.1 | .00 | -25.8 | -2.6 | 2.83 | -0.2 |
| 30.5 | -1.0 | .00 | -23.2 | -3.4 | 2.84 | -0.2 |
| 31.0 | -0.5 | .00 | -20.9 | -3.1 | 2.99 | 0.0 |
| 31.5 | -0.5 | .00 | -16.1 | -3.7 | 3.16 | 0.2 |
| 32.0 | 0.0 | .00 | -21.9 | -3.1 | 2.94 | 0.0 |
| 32.5 | 0.0 | .00 | -16.5 | -3.1 | 3.04 | 0.0 |
| 33.0 | -0.8 | .00 | -19.6 | -2.8 | 3.16 | 0.2 |
| 33.5 | -0.8 | .00 | -22.8 | -2.4 | 3.04 | 0.1 |
| 34.0 | -1.3 | .00 | -16.3 | -2.8 | 3.08 | 0.1 |
| 34.5 | -1.4 | .00 | -19.2 | -3.9 | 3.35 | 0.4 |
| 35.0 | -2.1 | .00 | -19.2 | -3.1 | 3.09 | 0.1 |
| 35.5 | -1.7 | .00 | -17.9 | -3.3 | 3.07 | 0.1 |
| 36.0 | -2.3 | .00 | -20.0 | -2.4 | 2.68 | -0.4 |
| 36.5 | -1.7 | .00 | -19.0 | -3.8 | 2.88 | 0.0 |
| 37.0 | -2.2 | .00 | -16.3 | -3.2 | 2.99 | 0.0 |
| 37.5 | -2.3 | .00 | -15.2 | -3.2 | 3.02 | 0.0 |
| 38.0 | -2.2 | .00 | -17.1 | -2.6 | 2.76 | -0.3 |
| 38.5 | -2.7 | .00 | -18.6 | -3.5 | 2.69 | -0.4 |
| 39.0 | -2.9 | .00 | -13.6 | -3.7 | 2.83 | -0.2 |
| 39.5 | -3.2 | .00 | -18.9 | -2.8 | 2.57 | -0.5 |
| 40.0 | -3.3 | .00 | -13.5 | -3.0 | 2.68 | -0.4 |
| 40.5 | -3.3 | .00 | -21.5 | -2.8 | 2.66 | -0.4 |
| 41.0 | -3.3 | .00 | -20.5 | -3.1 | 2.69 | -0.3 |
| 41.5 | -2.3 | .00 | -16.9 | -3.7 | 3.10 | 0.1 |
| 42.0 | -2.8 | .00 | -15.3 | -3.6 | 3.04 | 0.1 |
| 42.5 | -3.2 | .00 | -19.1 | -3.4 | 2.85 | -0.2 |
| 43.0 | -3.2 | .00 | -16.1 | -3.4 | 2.79 | -0.2 |
| 43.5 | -4.0 | .00 | -14.4 | -2.8 | 2.53 | -0.5 |
| 44.0 | -4.4 | .00 | -14.8 | -2.6 | 2.34 | -0.7 |
| 44.5 | -5.2 | .00 | -21.1 | -2.9 | 2.18 | -0.9 |
| 45.0 | -5.7 | .00 | -18.9 | -3.4 | 2.16 | -1.0 |
| 45.5 | -5.6 | .00 | -15.0 | -3.7 | 2.25 | -0.8 |
| 46.0 | -5.7 | .08 | -10.7 | -3.9 | 2.23 | -0.9 |
| 46.5 | -6.3 | .00 | -13.8 | -4.9 | 2.36 | -0.7 |
| 47.0 | -6.2 | .00 | -15.9 | -5.0 | 2.59 | -0.5 |
| 47.5 | -5.7 | .00 | -16.3 | -5.0 | 2.77 | -0.3 |
| 48.0 | -6.1 | .00 | -19.6 | -5.2 | 2.49 | -0.6 |
| 48.5 | -5.8 | .00 | -13.7 | -5.3 | 2.58 | -0.5 |
| 49.0 | -4.5 | .00 | -14.1 | -5.1 | 3.00 | 0.0 |
| 49.5 | -3.1 | .00 | -17.4 | -6.3 | 3.79 | 0.9 |
| 50.0 | -4.2 | .09 | -10.3 | -6.2 | 3.25 | 0.3 |

MAN-ACOUSTICS #24: HUGHES 300 - LEVEL FLYOVER AT 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 50.5 | -5.3 | .00 | -16.5 | -6.0 | 2.75 | -0.3 |
| 51.0 | -6.4 | .00 | -17.8 | -6.3 | 2.46 | -0.6 |
| 51.5 | -6.7 | .00 | -18.1 | -6.1 | 2.39 | -0.7 |
| 52.0 | -7.0 | .00 | -17.4 | -6.8 | 2.53 | -0.5 |
| 52.5 | -6.4 | .00 | -19.4 | -6.7 | 2.91 | 0.0 |
| 53.0 | -7.4 | .00 | -22.0 | -6.5 | 2.91 | 0.0 |
| 53.5 | -7.0 | .00 | -23.3 | -6.5 | 2.72 | -0.3 |
| 54.0 | -8.0 | .00 | -26.3 | -5.8 | 2.48 | -0.6 |
| 54.5 | -6.7 | .00 | -13.7 | -4.9 | 2.56 | -0.5 |
| 55.0 | -6.1 | .00 | -18.4 | -4.1 | 2.59 | -0.5 |
| 55.5 | -5.3 | .00 | -18.5 | -3.9 | 2.70 | -0.3 |
| 56.0 | -6.1 | .00 | -21.6 | -3.8 | 2.56 | -0.5 |
| 56.5 | -4.9 | .00 | -19.1 | -4.0 | 2.64 | -0.4 |
| 57.0 | -4.3 | .00 | -14.7 | -5.0 | 3.31 | 0.4 |
| 57.5 | -6.2 | .00 | -17.8 | -4.8 | 3.15 | 0.2 |
| 58.0 | -7.6 | .00 | -19.5 | -5.1 | 3.01 | 0.0 |
| 58.5 | -8.1 | .00 | -25.6 | -5.7 | 2.83 | -0.2 |
| 59.0 | -7.5 | .00 | -16.3 | -7.1 | 3.09 | 0.1 |
| 59.5 | -8.5 | .00 | -20.0 | -7.3 | 3.04 | 0.0 |
| 60.0 | -8.2 | .00 | -19.3 | -8.5 | 3.07 | 0.1 |
| 60.5 | -9.0 | .00 | -20.8 | -7.6 | 3.24 | 0.3 |
| 61.0 | -8.8 | .00 | -20.2 | -7.8 | 3.23 | 0.3 |
| 61.5 | -8.2 | .00 | -19.4 | -6.9 | 2.96 | 0.0 |
| 62.0 | -8.5 | .00 | -23.8 | -6.0 | 2.90 | 0.0 |
| 62.5 | -8.0 | .00 | -16.4 | -6.1 | 2.88 | 0.0 |
| 63.0 | -8.0 | .00 | -19.2 | -6.6 | 3.21 | 0.2 |
| 63.5 | -8.6 | .00 | -21.4 | -6.6 | 2.94 | 0.0 |
| 64.0 | -8.3 | .00 | -16.9 | -6.2 | 2.83 | -0.2 |
| 64.5 | -9.5 | .00 | -24.9 | -6.1 | 2.56 | -0.5 |
| 65.0 | -8.8 | .00 | -25.3 | -6.6 | 2.45 | -0.6 |
| 65.5 | -9.3 | .00 | -26.2 | -6.8 | 2.31 | -0.8 |
| 66.0 | -9.2 | .00 | -23.4 | -6.6 | 2.46 | -0.6 |
| 66.5 | -8.4 | .00 | -19.3 | -6.6 | 2.61 | -0.4 |
| 67.0 | -7.0 | .00 | -16.0 | -6.6 | 2.79 | -0.2 |
| 67.5 | -7.2 | .00 | -21.0 | -6.4 | 2.84 | -0.2 |
| 68.0 | -7.2 | .00 | -24.0 | -6.0 | 3.00 | 0.0 |
| 68.5 | -7.1 | .00 | -21.0 | -5.4 | 2.87 | 0.0 |
| 69.0 | -7.2 | .00 | -19.6 | -5.2 | 2.89 | 0.0 |
| 69.5 | -6.9 | .00 | -25.0 | -5.1 | 3.13 | 0.2 |
| 70.0 | -6.4 | .00 | -19.3 | -5.4 | 3.56 | 0.6 |
| 70.5 | -7.2 | .00 | -20.3 | -5.9 | 3.68 | 0.8 |
| 71.0 | -9.0 | .00 | -18.6 | -7.9 | 3.71 | 0.8 |
| 71.5 | -13.6 | .00 | -17.0 | -12.7 | 3.55 | 0.6 |
| 72.0 | -17.4 | .00 | -13.8 | -17.4 | 3.36 | 0.4 |
| 72.5 | -18.0 | .00 | -12.3 | -18.7 | 3.21 | 0.2 |
| 73.0 | -19.7 | .00 | -12.7 | -20.4 | 3.21 | 0.2 |

MAN-ACOUSTICS #1: SIMULATION - TRN W/NO SLAP (STANDARD)

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 69.5 | | | | | | |
| 1.0 | 71.6 | | | | | | |
| 1.5 | 85.5 | | | | | | |
| 2.0 | 96.3 | | | | | | |
| 2.5 | 100.0 | | | | | | |
| 3.0 | 101.5 | | | | | | |
| 3.5 | 101.4 | | | | | | |
| 4.0 | 103.0 | | | | | | |
| 4.5 | 101.7 | | | | | | |
| 5.0 | 101.7 | | | | | | |
| 5.5 | 103.6 | | | | | | |
| 6.0 | 102.6 | | | | | | |
| 6.5 | 102.0 | | | | | | |
| 7.0 | 102.4 | | | | | | |
| 7.5 | 101.9 | | | | | | |
| 8.0 | 102.5 | | | | | | |
| 8.5 | 101.6 | | | | | | |
| 9.0 | 102.4 | | | | | | |
| 9.5 | 102.1 | | | | | | |
| 10.0 | 102.4 | | | | | | |
| 10.5 | 102.3 | | | | | | |
| 11.0 | 100.7 | | | | | | |
| 11.5 | 101.3 | | | | | | |
| 12.0 | 102.3 | | | | | | |
| 12.5 | 102.9 | | | | | | |
| 13.0 | 100.8 | | | | | | |
| 13.5 | 101.6 | | | | | | |
| 14.0 | 99.4 | | | | | | |
| 14.5 | 98.4 | | | | | | |
| 15.0 | 93.3 | | | | | | |
| 15.5 | 90.1 | | | | | | |
| 16.0 | 65.6 | | | | | | |
| 16.5 | 65.2 | | | | | | |
| 17.0 | 63.2 | | | | | | |
| 17.5 | 62.9 | | | | | | |
| 18.0 | 64.2 | | | | | | |

MAN-ACOUSTICS #2: SIMULATION - IRN W/ LT SLAP AT 10 BPS

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 68.0 | | | | | | |
| 1.0 | 67.1 | | | | | | |
| 1.5 | 66.3 | | | | | | |
| 2.0 | 68.1 | | | | | | |
| 2.5 | 61.4 | | | | | | |
| 3.0 | 71.2 | | | | | | |
| 3.5 | 90.9 | | | | | | |
| 4.0 | 95.1 | | | | | | |
| 4.5 | 100.3 | | | | | | |
| 5.0 | 101.0 | | | | | | |
| 5.5 | 102.3 | | | | | | |
| 6.0 | 103.1 | | | | | | |
| 6.5 | 101.8 | | | | | | |
| 7.0 | 101.7 | | | | | | |
| 7.5 | 100.6 | | | | | | |
| 8.0 | 101.1 | | | | | | |
| 8.5 | 100.4 | | | | | | |
| 9.0 | 102.0 | | | | | | |
| 9.5 | 101.6 | | | | | | |
| 10.0 | 100.6 | | | | | | |
| 10.5 | 101.7 | | | | | | |
| 11.0 | 103.5 | | | | | | |
| 11.5 | 101.5 | | | | | | |
| 12.0 | 101.6 | | | | | | |
| 12.5 | 102.3 | | | | | | |
| 13.0 | 102.4 | | | | | | |
| 13.5 | 101.2 | | | | | | |
| 14.0 | 103.4 | | | | | | |
| 14.5 | 101.5 | | | | | | |
| 15.0 | 101.4 | | | | | | |
| 15.5 | 99.6 | | | | | | |
| 16.0 | 96.8 | | | | | | |
| 16.5 | 88.5 | | | | | | |
| 17.0 | 74.5 | | | | | | |
| 17.5 | 71.5 | | | | | | |

MAN ACOUSTICS #3 SIMULATION - TRN W/MOD SLAP AT 10 BPS

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 63.4 | | | | | | |
| 1.0 | 62.5 | | | | | | |
| 1.5 | 69.6 | | | | | | |
| 2.0 | 65.3 | | | | | | |
| 2.5 | 64.7 | | | | | | |
| 3.0 | 65.2 | | | | | | |
| 3.5 | 70.9 | | | | | | |
| 4.0 | 82.2 | | | | | | |
| 4.5 | 89.3 | | | | | | |
| 5.0 | 96.1 | | | | | | |
| 5.5 | 98.1 | | | | | | |
| 6.0 | 101.6 | | | | | | |
| 6.5 | 100.6 | | | | | | |
| 7.0 | 100.0 | | | | | | |
| 7.5 | 100.5 | | | | | | |
| 8.0 | 100.8 | | | | | | |
| 8.5 | 98.7 | | | | | | |
| 9.0 | 99.0 | | | | | | |
| 9.5 | 100.3 | | | | | | |
| 10.0 | 102.2 | | | | | | |
| 10.5 | 99.5 | | | | | | |
| 11.0 | 101.1 | | | | | | |
| 11.5 | 99.7 | | | | | | |
| 12.0 | 99.2 | | | | | | |
| 12.5 | 99.5 | | | | | | |
| 13.0 | 101.1 | | | | | | |
| 13.5 | 100.5 | | | | | | |
| 14.0 | 100.2 | | | | | | |
| 14.5 | 99.1 | | | | | | |
| 15.0 | 99.4 | | | | | | |
| 15.5 | 99.5 | | | | | | |
| 16.0 | 98.5 | | | | | | |
| 16.5 | 101.0 | | | | | | |
| 17.0 | 98.6 | | | | | | |
| 17.5 | 95.0 | | | | | | |
| 18.0 | 89.5 | | | | | | |
| 18.5 | 66.5 | | | | | | |
| 19.0 | 63.7 | | | | | | |

MAN-ACOUSTICS #4 SIMULATION - TRN W/ HVY SLAP AT 10 BPS

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 82.9 | | | | | | |
| 1.0 | 70.2 | | | | | | |
| 1.5 | 67.0 | | | | | | |
| 2.0 | 70.6 | | | | | | |
| 2.5 | 66.0 | | | | | | |
| 3.0 | 87.7 | | | | | | |
| 3.5 | 84.5 | | | | | | |
| 4.0 | 72.4 | | | | | | |
| 4.5 | 84.9 | | | | | | |
| 5.0 | 91.8 | | | | | | |
| 5.5 | 95.5 | | | | | | |
| 6.0 | 97.3 | | | | | | |
| 6.5 | 97.1 | | | | | | |
| 7.0 | 96.0 | | | | | | |
| 7.5 | 96.3 | | | | | | |
| 8.0 | 96.4 | | | | | | |
| 8.5 | 97.0 | | | | | | |
| 9.0 | 97.9 | | | | | | |
| 9.5 | 97.9 | | | | | | |
| 10.0 | 96.2 | | | | | | |
| 10.5 | 95.9 | | | | | | |
| 11.0 | 96.0 | | | | | | |
| 11.5 | 95.5 | | | | | | |
| 12.0 | 96.2 | | | | | | |
| 12.5 | 95.5 | | | | | | |
| 13.0 | 97.2 | | | | | | |
| 13.5 | 95.7 | | | | | | |
| 14.0 | 97.1 | | | | | | |
| 14.5 | 98.1 | | | | | | |
| 15.0 | 95.2 | | | | | | |
| 15.5 | 97.9 | | | | | | |
| 16.0 | 95.5 | | | | | | |
| 16.5 | 95.3 | | | | | | |
| 17.0 | 95.9 | | | | | | |
| 17.5 | 94.1 | | | | | | |
| 18.0 | 73.8 | | | | | | |
| 18.5 | 66.1 | | | | | | |
| 19.0 | 69.6 | | | | | | |
| 19.5 | 66.7 | | | | | | |

MAN-ACOUSTICS #5: SIMULATION - TRN W/ MOD SLAP AT 6 KPS

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 64.0 | | | | | | |
| 1.0 | 65.0 | | | | | | |
| 1.5 | 74.0 | | | | | | |
| 2.0 | 86.6 | | | | | | |
| 2.5 | 95.2 | | | | | | |
| 3.0 | 96.3 | | | | | | |
| 3.5 | 98.6 | | | | | | |
| 4.0 | 99.4 | | | | | | |
| 4.5 | 99.7 | | | | | | |
| 5.0 | 100.3 | | | | | | |
| 5.5 | 100.1 | | | | | | |
| 6.0 | 101.0 | | | | | | |
| 6.5 | 100.9 | | | | | | |
| 7.0 | 99.9 | | | | | | |
| 7.5 | 100.3 | | | | | | |
| 8.0 | 101.1 | | | | | | |
| 8.5 | 99.8 | | | | | | |
| 9.0 | 99.9 | | | | | | |
| 9.5 | 100.5 | | | | | | |
| 10.0 | 99.1 | | | | | | |
| 10.5 | 98.8 | | | | | | |
| 11.0 | 99.6 | | | | | | |
| 11.5 | 99.3 | | | | | | |
| 12.0 | 99.4 | | | | | | |
| 12.5 | 100.5 | | | | | | |
| 13.0 | 100.6 | | | | | | |
| 13.5 | 100.7 | | | | | | |
| 14.0 | 101.0 | | | | | | |
| 14.5 | 100.1 | | | | | | |
| 15.0 | 97.2 | | | | | | |
| 15.5 | 91.2 | | | | | | |
| 16.0 | 71.2 | | | | | | |
| 16.5 | 69.7 | | | | | | |
| 17.0 | 68.8 | | | | | | |

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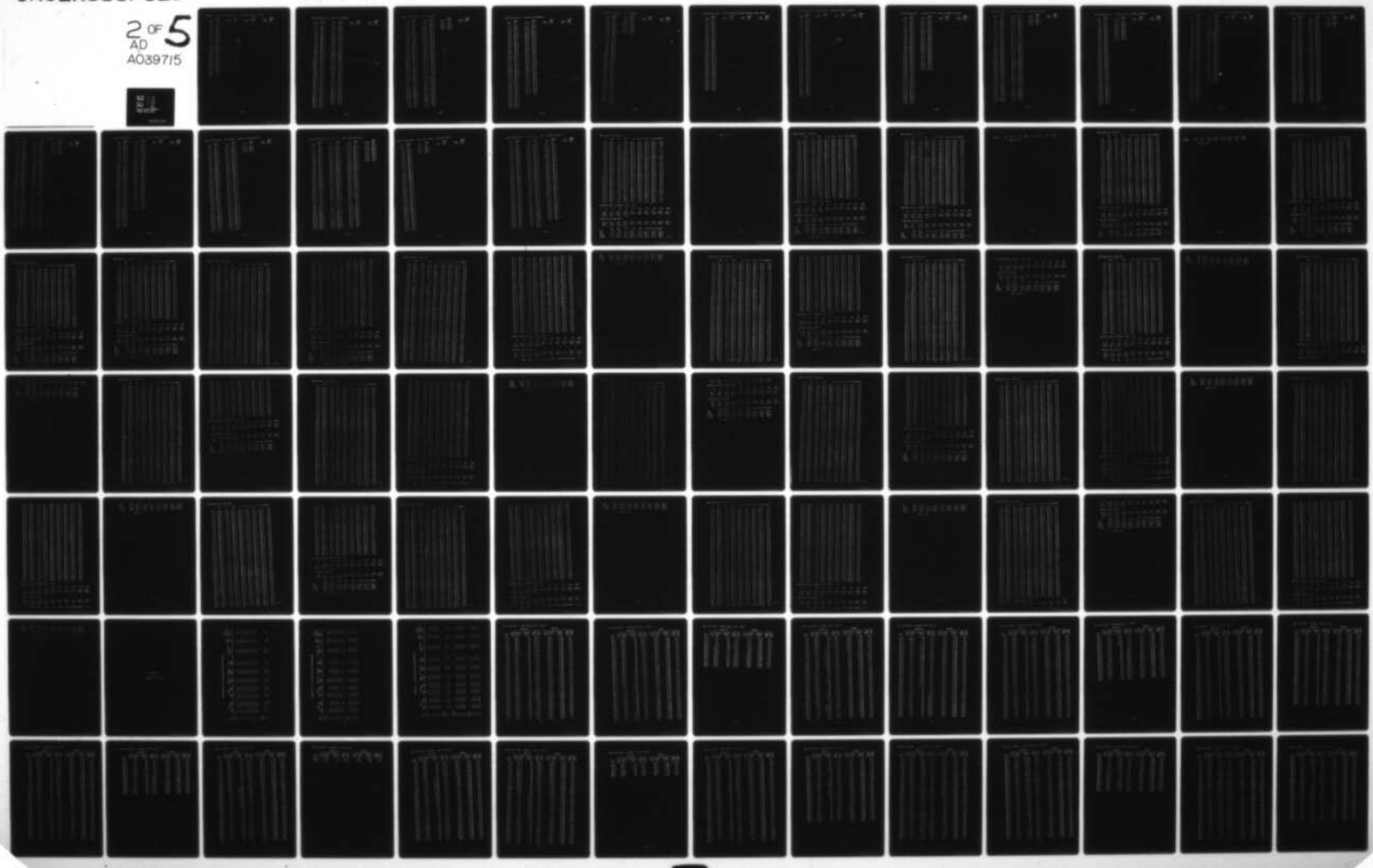
MAN ACOUSTICS #A/ SIMULATION - TRN W/ MOD SLAP AT L8 BPS

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 63.6 | | | | | | |
| 1.0 | 66.5 | | | | | | |
| 1.5 | 71.4 | | | | | | |
| 2.0 | 86.2 | | | | | | |
| 2.5 | 92.7 | | | | | | |
| 3.0 | 96.3 | | | | | | |
| 3.5 | 97.1 | | | | | | |
| 4.0 | 100.5 | | | | | | |
| 4.5 | 98.5 | | | | | | |
| 5.0 | 99.6 | | | | | | |
| 5.5 | 99.7 | | | | | | |
| 6.0 | 99.3 | | | | | | |
| 6.5 | 99.6 | | | | | | |
| 7.0 | 99.7 | | | | | | |
| 7.5 | 100.1 | | | | | | |
| 8.0 | 99.1 | | | | | | |
| 8.5 | 100.2 | | | | | | |
| 9.0 | 99.7 | | | | | | |
| 9.5 | 100.1 | | | | | | |
| 10.0 | 101.1 | | | | | | |
| 10.5 | 101.1 | | | | | | |
| 11.0 | 99.5 | | | | | | |
| 11.5 | 99.4 | | | | | | |
| 12.0 | 100.9 | | | | | | |
| 12.5 | 99.6 | | | | | | |
| 13.0 | 99.9 | | | | | | |
| 13.5 | 99.0 | | | | | | |
| 14.0 | 101.7 | | | | | | |
| 14.5 | 98.9 | | | | | | |
| 15.0 | 96.4 | | | | | | |
| 15.5 | 94.9 | | | | | | |
| 16.0 | 79.5 | | | | | | |
| 16.5 | 69.8 | | | | | | |
| 17.0 | 69.3 | | | | | | |
| 17.5 | 62.1 | | | | | | |

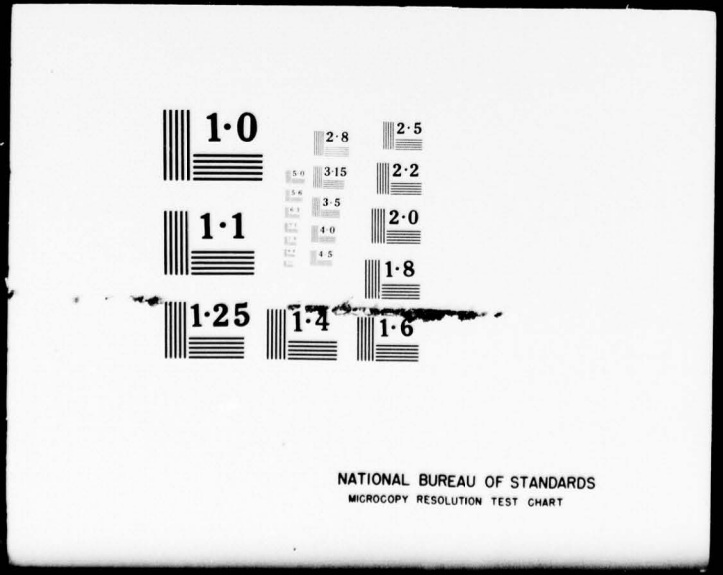
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AD-A039 715 BOLT BERANEK AND NEWMAN INC CANOGA PARK CALIF F/G 1/3
PHYSICAL ANALYSIS OF THE IMPULSIVE ASPECTS OF HELICOPTER NOISE.(U)
APR 77 W J GALLOWAY WI-77-3683-1
UNCLASSIFIED BBN-3425 FAA-EQ-77-8 NL

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A039715



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MAN-ACOUSTICS #20. SEA KNIGHT - LEVEL FLYOVER AT 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|

MAN-ACOUSTICS #7: SIMULATION - TRN W/ MOD SLAP AT 10 BPS

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 62.4 | | | | | | |
| 1.0 | 62.2 | | | | | | |
| 1.5 | 80.1 | | | | | | |
| 2.0 | 98.2 | | | | | | |
| 2.5 | 101.3 | | | | | | |
| 3.0 | 103.7 | | | | | | |
| 3.5 | 105.5 | | | | | | |
| 4.0 | 103.4 | | | | | | |
| 4.5 | 102.0 | | | | | | |
| 5.0 | 105.6 | | | | | | |
| 5.5 | 106.0 | | | | | | |
| 6.0 | 102.5 | | | | | | |
| 6.5 | 102.2 | | | | | | |
| 7.0 | 106.6 | | | | | | |
| 7.5 | 104.3 | | | | | | |
| 8.0 | 102.9 | | | | | | |
| 8.5 | 102.2 | | | | | | |
| 9.0 | 105.3 | | | | | | |
| 9.5 | 103.0 | | | | | | |
| 10.0 | 102.3 | | | | | | |
| 10.5 | 104.7 | | | | | | |
| 11.0 | 105.4 | | | | | | |
| 11.5 | 102.9 | | | | | | |
| 12.0 | 102.8 | | | | | | |
| 12.5 | 102.9 | | | | | | |
| 13.0 | 105.3 | | | | | | |
| 13.5 | 102.3 | | | | | | |
| 14.0 | 101.8 | | | | | | |
| 14.5 | 99.4 | | | | | | |
| 15.0 | 83.2 | | | | | | |
| 15.5 | 71.6 | | | | | | |
| 16.0 | 62.0 | | | | | | |

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MAN-ACOUSTICS #8: BOEING 747 TAKEOFF

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 77.0 | 25.5 | 99.4 | | | | |
| 1.0 | 80.4 | 26.0 | 100.1 | | | | |
| 1.5 | 82.7 | 26.5 | 99.8 | | | | |
| 2.0 | 84.3 | 27.0 | 100.0 | | | | |
| 2.5 | 87.1 | 27.5 | 99.7 | | | | |
| 3.0 | 88.7 | 28.0 | 99.6 | | | | |
| 3.5 | 90.8 | 28.5 | 100.6 | | | | |
| 4.0 | 89.5 | 29.0 | 99.6 | | | | |
| 4.5 | 89.0 | 29.5 | 99.2 | | | | |
| 5.0 | 87.8 | 30.0 | 99.5 | | | | |
| 5.5 | 89.4 | 30.5 | 99.3 | | | | |
| 6.0 | 87.2 | 31.0 | 99.3 | | | | |
| 6.5 | 85.4 | 31.5 | 99.2 | | | | |
| 7.0 | 89.0 | 32.0 | 99.3 | | | | |
| 7.5 | 88.5 | 32.5 | 98.9 | | | | |
| 8.0 | 91.8 | 33.0 | 98.3 | | | | |
| 8.5 | 92.9 | 33.5 | 96.9 | | | | |
| 9.0 | 91.6 | 34.0 | 98.2 | | | | |
| 9.5 | 91.0 | 34.5 | 97.7 | | | | |
| 10.0 | 92.6 | 35.0 | 95.2 | | | | |
| 10.5 | 94.5 | 35.5 | 95.5 | | | | |
| 11.0 | 94.5 | 36.0 | 96.4 | | | | |
| 11.5 | 95.7 | 36.5 | 94.3 | | | | |
| 12.0 | 93.2 | 37.0 | 95.2 | | | | |
| 12.5 | 94.3 | 37.5 | 95.4 | | | | |
| 13.0 | 95.9 | 38.0 | 93.5 | | | | |
| 13.5 | 96.2 | 38.5 | 93.8 | | | | |
| 14.0 | 97.2 | 39.0 | 93.5 | | | | |
| 14.5 | 96.8 | 39.5 | 92.3 | | | | |
| 15.0 | 97.0 | 40.0 | 90.3 | | | | |
| 15.5 | 97.3 | 40.5 | 90.3 | | | | |
| 16.0 | 96.6 | 41.0 | 90.8 | | | | |
| 16.5 | 99.0 | 41.5 | 91.9 | | | | |
| 17.0 | 97.8 | 42.0 | 91.2 | | | | |
| 17.5 | 100.2 | 42.5 | 88.9 | | | | |
| 18.0 | 98.8 | 43.0 | 89.3 | | | | |
| 18.5 | 98.2 | 43.5 | 89.0 | | | | |
| 19.0 | 99.1 | 44.0 | 87.6 | | | | |
| 19.5 | 100.6 | 44.5 | 86.8 | | | | |
| 20.0 | 99.3 | 45.0 | 85.5 | | | | |
| 20.5 | 101.0 | 45.5 | 89.9 | | | | |
| 21.0 | 99.4 | 46.0 | 85.3 | | | | |
| 21.5 | 99.7 | 46.5 | 83.2 | | | | |
| 22.0 | 99.6 | 47.0 | 79.6 | | | | |
| 22.5 | 100.3 | 47.5 | 81.0 | | | | |
| 23.0 | 100.1 | 48.0 | 73.6 | | | | |
| 23.5 | 100.4 | 48.5 | 75.4 | | | | |
| 24.0 | 99.3 | 49.0 | 70.2 | | | | |
| 24.5 | 99.0 | | | | | | |
| 25.0 | 99.5 | | | | | | |

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MAN-ACOUSTICS #2 DC-8 TAKEOFF

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 65.0 | 25.5 | 101.2 | 50.5 | 94.4 | | |
| 1.0 | 69.6 | 26.0 | 96.6 | 51.0 | 97.5 | | |
| 1.5 | 62.7 | 26.5 | 97.8 | 51.5 | 94.0 | | |
| 2.0 | 69.6 | 27.0 | 98.1 | 52.0 | 93.2 | | |
| 2.5 | 68.9 | 27.5 | 97.7 | | | | |
| 3.0 | 72.8 | 28.0 | 97.9 | | | | |
| 3.5 | 74.2 | 28.5 | 96.7 | | | | |
| 4.0 | 74.8 | 29.0 | 98.8 | | | | |
| 4.5 | 77.8 | 29.5 | 97.3 | | | | |
| 5.0 | 77.4 | 30.0 | 98.6 | | | | |
| 5.5 | 80.8 | 30.5 | 99.6 | | | | |
| 6.0 | 79.6 | 31.0 | 97.8 | | | | |
| 6.5 | 81.6 | 31.5 | 100.3 | | | | |
| 7.0 | 86.9 | 32.0 | 100.8 | | | | |
| 7.5 | 89.5 | 32.5 | 100.5 | | | | |
| 8.0 | 91.7 | 33.0 | 98.8 | | | | |
| 8.5 | 92.7 | 33.5 | 97.7 | | | | |
| 9.0 | 91.6 | 34.0 | 100.1 | | | | |
| 9.5 | 92.9 | 34.5 | 98.5 | | | | |
| 10.0 | 92.1 | 35.0 | 99.3 | | | | |
| 10.5 | 92.4 | 35.5 | 98.1 | | | | |
| 11.0 | 92.7 | 36.0 | 100.2 | | | | |
| 11.5 | 92.4 | 36.5 | 100.4 | | | | |
| 12.0 | 91.6 | 37.0 | 100.3 | | | | |
| 12.5 | 92.8 | 37.5 | 99.3 | | | | |
| 13.0 | 93.2 | 38.0 | 97.9 | | | | |
| 13.5 | 91.5 | 38.5 | 98.5 | | | | |
| 14.0 | 89.9 | 39.0 | 99.0 | | | | |
| 14.5 | 93.6 | 39.5 | 99.5 | | | | |
| 15.0 | 95.0 | 40.0 | 99.5 | | | | |
| 15.5 | 94.3 | 40.5 | 98.9 | | | | |
| 16.0 | 94.1 | 41.0 | 100.1 | | | | |
| 16.5 | 94.0 | 41.5 | 102.0 | | | | |
| 17.0 | 91.0 | 42.0 | 99.4 | | | | |
| 17.5 | 94.5 | 42.5 | 100.3 | | | | |
| 18.0 | 95.7 | 43.0 | 97.9 | | | | |
| 18.5 | 94.7 | 43.5 | 98.9 | | | | |
| 19.0 | 95.1 | 44.0 | 101.3 | | | | |
| 19.5 | 96.3 | 44.5 | 99.1 | | | | |
| 20.0 | 95.1 | 45.0 | 97.2 | | | | |
| 20.5 | 94.9 | 45.5 | 99.9 | | | | |
| 21.0 | 95.8 | 46.0 | 100.1 | | | | |
| 21.5 | 97.9 | 46.5 | 96.9 | | | | |
| 22.0 | 96.2 | 47.0 | 98.1 | | | | |
| 22.5 | 98.4 | 47.5 | 97.2 | | | | |
| 23.0 | 98.3 | 48.0 | 94.3 | | | | |
| 23.5 | 98.8 | 48.5 | 97.1 | | | | |
| 24.0 | 99.6 | 49.0 | 98.9 | | | | |
| 24.5 | 99.1 | 49.5 | 97.6 | | | | |
| 25.0 | 98.5 | 50.0 | 96.0 | | | | |

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MAN-ACOUSTICS #10: BOEING 747 APPROACH

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 63.5 | 25.5 | 100.8 | | | | |
| 1.0 | 65.5 | 26.0 | 100.8 | | | | |
| 1.5 | 71.7 | 26.5 | 101.2 | | | | |
| 2.0 | 73.3 | 27.0 | 101.6 | | | | |
| 2.5 | 76.3 | 27.5 | 100.7 | | | | |
| 3.0 | 76.9 | 28.0 | 99.9 | | | | |
| 3.5 | 78.8 | 28.5 | 98.5 | | | | |
| 4.0 | 82.5 | 29.0 | 99.9 | | | | |
| 4.5 | 85.1 | 29.5 | 96.7 | | | | |
| 5.0 | 91.7 | 30.0 | 97.9 | | | | |
| 5.5 | 94.6 | 30.5 | 96.2 | | | | |
| 6.0 | 94.6 | 31.0 | 95.3 | | | | |
| 6.5 | 92.4 | 31.5 | 94.3 | | | | |
| 7.0 | 93.5 | 32.0 | 93.4 | | | | |
| 7.5 | 95.6 | 32.5 | 93.1 | | | | |
| 8.0 | 95.4 | 33.0 | 92.8 | | | | |
| 8.5 | 95.1 | 33.5 | 96.3 | | | | |
| 9.0 | 96.0 | 34.0 | 94.1 | | | | |
| 9.5 | 94.9 | 34.5 | 92.7 | | | | |
| 10.0 | 96.1 | 35.0 | 92.2 | | | | |
| 10.5 | 97.1 | 35.5 | 93.8 | | | | |
| 11.0 | 95.1 | 36.0 | 91.8 | | | | |
| 11.5 | 95.4 | 36.5 | 90.0 | | | | |
| 12.0 | 98.6 | 37.0 | 89.8 | | | | |
| 12.5 | 100.2 | 37.5 | 89.8 | | | | |
| 13.0 | 99.0 | 38.0 | 90.4 | | | | |
| 13.5 | 98.6 | 38.5 | 90.1 | | | | |
| 14.0 | 98.8 | 39.0 | 90.1 | | | | |
| 14.5 | 100.4 | 39.5 | 90.6 | | | | |
| 15.0 | 100.6 | 40.0 | 89.8 | | | | |
| 15.5 | 99.9 | 40.5 | 90.2 | | | | |
| 16.0 | 100.3 | 41.0 | 88.6 | | | | |
| 16.5 | 100.3 | 41.5 | 89.0 | | | | |
| 17.0 | 100.5 | 42.0 | 88.5 | | | | |
| 17.5 | 101.1 | 42.5 | 89.8 | | | | |
| 18.0 | 100.6 | 43.0 | 89.2 | | | | |
| 18.5 | 99.9 | 43.5 | 90.3 | | | | |
| 19.0 | 100.7 | 44.0 | 88.5 | | | | |
| 19.5 | 100.6 | 44.5 | 86.4 | | | | |
| 20.0 | 101.2 | 45.0 | 82.5 | | | | |
| 20.5 | 100.4 | 45.5 | 77.4 | | | | |
| 21.0 | 101.7 | 46.0 | 80.6 | | | | |
| 21.5 | 101.3 | | | | | | |
| 22.0 | 101.9 | | | | | | |
| 22.5 | 103.3 | | | | | | |
| 23.0 | 102.5 | | | | | | |
| 23.5 | 102.1 | | | | | | |
| 24.0 | 102.3 | | | | | | |
| 24.5 | 102.2 | | | | | | |
| 25.0 | 101.7 | | | | | | |

BEST AVAILABLE COPY

MAN-ACOUSTICS #11: DC-8 APPROACH

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 74.7 | 25.5 | 90.7 | | | | |
| 1.0 | 80.6 | 26.0 | 91.5 | | | | |
| 1.5 | 84.5 | 26.5 | 91.9 | | | | |
| 2.0 | 88.6 | 27.0 | 90.8 | | | | |
| 2.5 | 91.8 | 27.5 | 91.8 | | | | |
| 3.0 | 92.7 | 28.0 | 90.0 | | | | |
| 3.5 | 95.3 | 28.5 | 88.9 | | | | |
| 4.0 | 93.8 | 29.0 | 92.1 | | | | |
| 4.5 | 92.2 | | | | | | |
| 5.0 | 94.3 | | | | | | |
| 5.5 | 95.2 | | | | | | |
| 6.0 | 94.0 | | | | | | |
| 6.5 | 93.9 | | | | | | |
| 7.0 | 96.9 | | | | | | |
| 7.5 | 95.8 | | | | | | |
| 8.0 | 98.1 | | | | | | |
| 8.5 | 98.3 | | | | | | |
| 9.0 | 99.2 | | | | | | |
| 9.5 | 99.8 | | | | | | |
| 10.0 | 99.4 | | | | | | |
| 10.5 | 100.3 | | | | | | |
| 11.0 | 98.6 | | | | | | |
| 11.5 | 98.2 | | | | | | |
| 12.0 | 99.3 | | | | | | |
| 12.5 | 100.0 | | | | | | |
| 13.0 | 100.5 | | | | | | |
| 13.5 | 100.8 | | | | | | |
| 14.0 | 101.2 | | | | | | |
| 14.5 | 101.3 | | | | | | |
| 15.0 | 101.3 | | | | | | |
| 15.5 | 101.0 | | | | | | |
| 16.0 | 102.4 | | | | | | |
| 16.5 | 101.6 | | | | | | |
| 17.0 | 101.5 | | | | | | |
| 17.5 | 100.1 | | | | | | |
| 18.0 | 97.9 | | | | | | |
| 18.5 | 98.9 | | | | | | |
| 19.0 | 97.7 | | | | | | |
| 19.5 | 96.5 | | | | | | |
| 20.0 | 96.9 | | | | | | |
| 20.5 | 96.2 | | | | | | |
| 21.0 | 95.6 | | | | | | |
| 21.5 | 94.3 | | | | | | |
| 22.0 | 94.0 | | | | | | |
| 22.5 | 93.1 | | | | | | |
| 23.0 | 91.1 | | | | | | |
| 23.5 | 92.4 | | | | | | |
| 24.0 | 91.2 | | | | | | |
| 24.5 | 91.5 | | | | | | |
| 25.0 | 90.8 | | | | | | |

BEST AVAILABLE COPY

MAN-ACOUSTICS #12: BRITTEN-NORMAN ISLANDER-TAKEOFF SMALL RECIP

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 86.9 | | | | | | |
| 1.0 | 89.2 | | | | | | |
| 1.5 | 90.2 | | | | | | |
| 2.0 | 88.7 | | | | | | |
| 2.5 | 89.8 | | | | | | |
| 3.0 | 90.7 | | | | | | |
| 3.5 | 91.9 | | | | | | |
| 4.0 | 92.9 | | | | | | |
| 4.5 | 95.6 | | | | | | |
| 5.0 | 96.1 | | | | | | |
| 5.5 | 94.3 | | | | | | |
| 6.0 | 96.1 | | | | | | |
| 6.5 | 98.1 | | | | | | |
| 7.0 | 98.8 | | | | | | |
| 7.5 | 99.7 | | | | | | |
| 8.0 | 99.9 | | | | | | |
| 8.5 | 99.7 | | | | | | |
| 9.0 | 100.6 | | | | | | |
| 9.5 | 97.2 | | | | | | |
| 10.0 | 95.3 | | | | | | |
| 10.5 | 95.2 | | | | | | |
| 11.0 | 97.6 | | | | | | |
| 11.5 | 95.4 | | | | | | |
| 12.0 | 97.5 | | | | | | |
| 12.5 | 96.4 | | | | | | |
| 13.0 | 97.6 | | | | | | |
| 13.5 | 95.4 | | | | | | |
| 14.0 | 93.4 | | | | | | |
| 14.5 | 96.1 | | | | | | |
| 15.0 | 94.0 | | | | | | |
| 15.5 | 96.6 | | | | | | |
| 16.0 | 93.2 | | | | | | |
| 16.5 | 93.8 | | | | | | |
| 17.0 | 94.0 | | | | | | |
| 17.5 | 96.3 | | | | | | |
| 18.0 | 93.3 | | | | | | |
| 18.5 | 90.8 | | | | | | |
| 19.0 | 90.1 | | | | | | |
| 19.5 | 89.5 | | | | | | |
| 20.0 | 87.1 | | | | | | |
| 20.5 | 87.0 | | | | | | |
| 21.0 | 87.1 | | | | | | |

MAN-ACOUSTICS #13 CONVAIR 640 - TAKEOFF MEDIUM TURBOPROP

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 76.5 | | | | | | |
| 1.0 | 79.8 | | | | | | |
| 1.5 | 87.4 | | | | | | |
| 2.0 | 90.6 | | | | | | |
| 2.5 | 90.9 | | | | | | |
| 3.0 | 92.5 | | | | | | |
| 3.5 | 92.1 | | | | | | |
| 4.0 | 89.9 | | | | | | |
| 4.5 | 91.7 | | | | | | |
| 5.0 | 94.3 | | | | | | |
| 5.5 | 92.8 | | | | | | |
| 6.0 | 93.2 | | | | | | |
| 6.5 | 93.6 | | | | | | |
| 7.0 | 94.6 | | | | | | |
| 7.5 | 94.4 | | | | | | |
| 8.0 | 94.7 | | | | | | |
| 8.5 | 95.1 | | | | | | |
| 9.0 | 94.9 | | | | | | |
| 9.5 | 94.3 | | | | | | |
| 10.0 | 95.0 | | | | | | |
| 10.5 | 95.6 | | | | | | |
| 11.0 | 95.0 | | | | | | |
| 11.5 | 96.0 | | | | | | |
| 12.0 | 94.4 | | | | | | |
| 12.5 | 94.0 | | | | | | |
| 13.0 | 94.0 | | | | | | |
| 13.5 | 95.1 | | | | | | |
| 14.0 | 93.7 | | | | | | |
| 14.5 | 94.0 | | | | | | |
| 15.0 | 93.7 | | | | | | |
| 15.5 | 92.8 | | | | | | |
| 16.0 | 91.8 | | | | | | |
| 16.5 | 90.6 | | | | | | |
| 17.0 | 90.8 | | | | | | |
| 17.5 | 93.9 | | | | | | |
| 18.0 | 91.0 | | | | | | |
| 18.5 | 90.8 | | | | | | |
| 19.0 | 91.2 | | | | | | |
| 19.5 | 90.8 | | | | | | |
| 20.0 | 89.2 | | | | | | |
| 20.5 | 89.2 | | | | | | |
| 21.0 | 87.7 | | | | | | |
| 21.5 | 87.5 | | | | | | |
| 22.0 | 86.6 | | | | | | |
| 22.5 | 87.7 | | | | | | |
| 23.0 | 87.4 | | | | | | |
| 23.5 | 87.2 | | | | | | |

BEST AVAILABLE COPY

MAN-ACOUSTICS #14: CHINOOK CH 47-A - LEVEL FLYOVER AT 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 88.8 | 25.5 | 94.9 | | | | |
| 1.0 | 91.6 | 26.0 | 93.9 | | | | |
| 1.5 | 94.3 | 26.5 | 94.1 | | | | |
| 2.0 | 95.9 | 27.0 | 93.4 | | | | |
| 2.5 | 98.1 | 27.5 | 93.9 | | | | |
| 3.0 | 98.7 | 28.0 | 95.9 | | | | |
| 3.5 | 99.7 | 28.5 | 94.6 | | | | |
| 4.0 | 98.6 | 29.0 | 93.2 | | | | |
| 4.5 | 96.5 | 29.5 | 92.1 | | | | |
| 5.0 | 92.2 | 30.0 | 90.6 | | | | |
| 5.5 | 90.5 | 30.5 | 90.9 | | | | |
| 6.0 | 90.4 | 31.0 | 89.4 | | | | |
| 6.5 | 91.5 | 31.5 | 91.3 | | | | |
| 7.0 | 90.6 | 32.0 | 90.0 | | | | |
| 7.5 | 90.5 | 32.5 | 90.0 | | | | |
| 8.0 | 88.1 | 33.0 | 89.5 | | | | |
| 8.5 | 88.4 | 33.5 | 89.3 | | | | |
| 9.0 | 87.7 | 34.0 | 89.4 | | | | |
| 9.5 | 87.9 | 34.5 | 89.1 | | | | |
| 10.0 | 90.1 | 35.0 | 90.0 | | | | |
| 10.5 | 91.9 | 35.5 | 89.1 | | | | |
| 11.0 | 92.0 | 36.0 | 88.6 | | | | |
| 11.5 | 92.1 | 36.5 | 86.9 | | | | |
| 12.0 | 90.6 | 37.0 | 88.4 | | | | |
| 12.5 | 93.8 | 37.5 | 87.3 | | | | |
| 13.0 | 100.4 | 38.0 | 87.6 | | | | |
| 13.5 | 97.2 | 38.5 | 87.6 | | | | |
| 14.0 | 93.1 | 39.0 | 87.4 | | | | |
| 14.5 | 92.9 | 39.5 | 87.2 | | | | |
| 15.0 | 92.3 | 40.0 | 87.9 | | | | |
| 15.5 | 94.3 | | | | | | |
| 16.0 | 93.0 | | | | | | |
| 16.5 | 91.7 | | | | | | |
| 17.0 | 94.4 | | | | | | |
| 17.5 | 96.7 | | | | | | |
| 18.0 | 98.9 | | | | | | |
| 18.5 | 99.2 | | | | | | |
| 19.0 | 97.3 | | | | | | |
| 19.5 | 98.2 | | | | | | |
| 20.0 | 100.4 | | | | | | |
| 20.5 | 100.1 | | | | | | |
| 21.0 | 99.2 | | | | | | |
| 21.5 | 101.6 | | | | | | |
| 22.0 | 103.9 | | | | | | |
| 22.5 | 100.0 | | | | | | |
| 23.0 | 100.3 | | | | | | |
| 23.5 | 98.2 | | | | | | |
| 24.0 | 96.0 | | | | | | |
| 24.5 | 94.3 | | | | | | |
| 25.0 | 94.8 | | | | | | |

MAN-ACOUSTICS #15. CHINOOK CH 47-A - ROUTINE APPROACH

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 89.9 | 25.5 | 99.2 | 50.5 | 95.6 | | |
| 1.0 | 92.5 | 26.0 | 98.2 | 51.0 | 95.7 | | |
| 1.5 | 90.3 | 26.5 | 98.2 | 51.5 | 98.2 | | |
| 2.0 | 91.2 | 27.0 | 98.5 | 52.0 | 94.4 | | |
| 2.5 | 89.0 | 27.5 | 97.6 | | | | |
| 3.0 | 88.7 | 28.0 | 98.6 | | | | |
| 3.5 | 87.2 | 28.5 | 99.1 | | | | |
| 4.0 | 87.5 | 29.0 | 97.5 | | | | |
| 4.5 | 86.4 | 29.5 | 97.0 | | | | |
| 5.0 | 86.4 | 30.0 | 96.3 | | | | |
| 5.5 | 86.2 | 30.5 | 97.1 | | | | |
| 6.0 | 86.0 | 31.0 | 97.0 | | | | |
| 6.5 | 86.5 | 31.5 | 97.0 | | | | |
| 7.0 | 86.9 | 32.0 | 96.3 | | | | |
| 7.5 | 86.1 | 32.5 | 96.1 | | | | |
| 8.0 | 88.5 | 33.0 | 96.3 | | | | |
| 8.5 | 90.1 | 33.5 | 95.9 | | | | |
| 9.0 | 94.9 | 34.0 | 95.6 | | | | |
| 9.5 | 91.9 | 34.5 | 96.5 | | | | |
| 10.0 | 88.8 | 35.0 | 96.1 | | | | |
| 10.5 | 90.0 | 35.5 | 97.4 | | | | |
| 11.0 | 88.5 | 36.0 | 96.5 | | | | |
| 11.5 | 87.5 | 36.5 | 97.1 | | | | |
| 12.0 | 90.4 | 37.0 | 97.9 | | | | |
| 12.5 | 92.0 | 37.5 | 98.4 | | | | |
| 13.0 | 92.7 | 38.0 | 98.7 | | | | |
| 13.5 | 91.6 | 38.5 | 101.9 | | | | |
| 14.0 | 94.6 | 39.0 | 98.2 | | | | |
| 14.5 | 93.0 | 39.5 | 98.3 | | | | |
| 15.0 | 87.9 | 40.0 | 98.9 | | | | |
| 15.5 | 93.2 | 40.5 | 99.4 | | | | |
| 16.0 | 92.9 | 41.0 | 100.5 | | | | |
| 16.5 | 93.0 | 41.5 | 98.6 | | | | |
| 17.0 | 91.6 | 42.0 | 98.9 | | | | |
| 17.5 | 93.4 | 42.5 | 101.4 | | | | |
| 18.0 | 95.1 | 43.0 | 103.0 | | | | |
| 18.5 | 94.3 | 43.5 | 99.0 | | | | |
| 19.0 | 94.7 | 44.0 | 98.8 | | | | |
| 19.5 | 92.2 | 44.5 | 99.9 | | | | |
| 20.0 | 92.5 | 45.0 | 99.0 | | | | |
| 20.5 | 93.2 | 45.5 | 97.6 | | | | |
| 21.0 | 94.6 | 46.0 | 97.6 | | | | |
| 21.5 | 92.9 | 46.5 | 96.1 | | | | |
| 22.0 | 94.8 | 47.0 | 96.8 | | | | |
| 22.5 | 95.3 | 47.5 | 96.3 | | | | |
| 23.0 | 93.3 | 48.0 | 96.0 | | | | |
| 23.5 | 91.7 | 48.5 | 97.6 | | | | |
| 24.0 | 94.3 | 49.0 | 97.6 | | | | |
| 24.5 | 98.9 | 49.5 | 97.9 | | | | |
| 25.0 | 98.3 | 50.0 | 97.1 | | | | |

MAN-ACOUSTICS #16: CHINOOK CH 47 A - ROUTINE TAKEOFF

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 85.2 | 25.5 | 89.8 | | | | |
| 1.0 | 82.9 | 26.0 | 89.8 | | | | |
| 1.5 | 85.0 | 26.5 | 88.7 | | | | |
| 2.0 | 85.2 | 27.0 | 87.3 | | | | |
| 2.5 | 86.9 | 27.5 | 86.6 | | | | |
| 3.0 | 87.7 | 28.0 | 86.2 | | | | |
| 3.5 | 86.4 | 28.5 | 84.5 | | | | |
| 4.0 | 89.2 | 29.0 | 85.3 | | | | |
| 4.5 | 99.2 | 29.5 | 86.2 | | | | |
| 5.0 | 90.4 | 30.0 | 85.4 | | | | |
| 5.5 | 84.0 | 30.5 | 81.8 | | | | |
| 6.0 | 82.1 | | | | | | |
| 6.5 | 83.7 | | | | | | |
| 7.0 | 83.1 | | | | | | |
| 7.5 | 85.9 | | | | | | |
| 8.0 | 86.5 | | | | | | |
| 8.5 | 86.7 | | | | | | |
| 9.0 | 85.5 | | | | | | |
| 9.5 | 87.9 | | | | | | |
| 10.0 | 87.9 | | | | | | |
| 10.5 | 87.9 | | | | | | |
| 11.0 | 88.7 | | | | | | |
| 11.5 | 86.8 | | | | | | |
| 12.0 | 89.3 | | | | | | |
| 12.5 | 87.4 | | | | | | |
| 13.0 | 88.6 | | | | | | |
| 13.5 | 89.2 | | | | | | |
| 14.0 | 88.6 | | | | | | |
| 14.5 | 89.2 | | | | | | |
| 15.0 | 91.7 | | | | | | |
| 15.5 | 90.1 | | | | | | |
| 16.0 | 90.4 | | | | | | |
| 16.5 | 91.4 | | | | | | |
| 17.0 | 92.0 | | | | | | |
| 17.5 | 93.4 | | | | | | |
| 18.0 | 93.2 | | | | | | |
| 18.5 | 94.1 | | | | | | |
| 19.0 | 97.2 | | | | | | |
| 19.5 | 103.6 | | | | | | |
| 20.0 | 99.3 | | | | | | |
| 20.5 | 98.2 | | | | | | |
| 21.0 | 97.2 | | | | | | |
| 21.5 | 98.6 | | | | | | |
| 22.0 | 93.2 | | | | | | |
| 22.5 | 92.7 | | | | | | |
| 23.0 | 90.6 | | | | | | |
| 23.5 | 91.3 | | | | | | |
| 24.0 | 91.7 | | | | | | |
| 24.5 | 91.5 | | | | | | |
| 25.0 | 92.1 | | | | | | |

MAIN ACOUSTICS #17 BELL UH-1H (HUEY) - LEVEL FLYOVER AT 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 58.7 | 25.5 | 98.3 | | | | |
| 1.0 | 88.1 | 26.0 | 98.8 | | | | |
| 1.5 | 89.4 | 26.5 | 98.0 | | | | |
| 2.0 | 90.5 | 27.0 | 95.4 | | | | |
| 2.5 | 92.0 | 27.5 | 94.3 | | | | |
| 3.0 | 92.0 | 28.0 | 97.3 | | | | |
| 3.5 | 92.7 | 28.5 | 103.3 | | | | |
| 4.0 | 91.6 | 29.0 | 103.3 | | | | |
| 4.5 | 90.1 | 29.5 | 101.3 | | | | |
| 5.0 | 91.6 | 30.0 | 103.1 | | | | |
| 5.5 | 91.7 | 30.5 | 99.5 | | | | |
| 6.0 | 92.7 | 31.0 | 101.3 | | | | |
| 6.5 | 95.8 | 31.5 | 95.6 | | | | |
| 7.0 | 98.1 | 32.0 | 100.8 | | | | |
| 7.5 | 96.7 | 32.5 | 95.6 | | | | |
| 8.0 | 95.2 | 33.0 | 95.4 | | | | |
| 8.5 | 94.8 | 33.5 | 94.7 | | | | |
| 9.0 | 92.9 | 34.0 | 93.6 | | | | |
| 9.5 | 93.5 | 34.5 | 92.0 | | | | |
| 10.0 | 95.6 | 35.0 | 91.9 | | | | |
| 10.5 | 97.3 | 35.5 | 91.7 | | | | |
| 11.0 | 98.4 | 36.0 | 95.0 | | | | |
| 11.5 | 98.6 | 36.5 | 91.9 | | | | |
| 12.0 | 98.2 | 37.0 | 90.8 | | | | |
| 12.5 | 95.1 | 37.5 | 90.3 | | | | |
| 13.0 | 93.7 | 38.0 | 88.5 | | | | |
| 13.5 | 95.1 | 38.5 | 86.8 | | | | |
| 14.0 | 95.7 | 39.0 | 89.9 | | | | |
| 14.5 | 95.4 | 39.5 | 89.0 | | | | |
| 15.0 | 97.2 | 40.0 | 88.9 | | | | |
| 15.5 | 96.5 | 40.5 | 90.1 | | | | |
| 16.0 | 97.8 | 41.0 | 85.8 | | | | |
| 16.5 | 99.2 | 41.5 | 83.6 | | | | |
| 17.0 | 99.0 | 42.0 | 85.8 | | | | |
| 17.5 | 99.9 | 42.5 | 91.4 | | | | |
| 18.0 | 97.8 | 43.0 | 82.4 | | | | |
| 18.5 | 98.6 | 43.5 | 80.5 | | | | |
| 19.0 | 95.2 | 44.0 | 74.0 | | | | |
| 19.5 | 95.6 | | | | | | |
| 20.0 | 98.0 | | | | | | |
| 20.5 | 97.3 | | | | | | |
| 21.0 | 95.6 | | | | | | |
| 21.5 | 94.8 | | | | | | |
| 22.0 | 95.0 | | | | | | |
| 22.5 | 94.3 | | | | | | |
| 23.0 | 93.4 | | | | | | |
| 23.5 | 93.3 | | | | | | |
| 24.0 | 92.2 | | | | | | |
| 24.5 | 95.3 | | | | | | |
| 25.0 | 99.3 | | | | | | |

MAN-ACOUSTICS #18: KIOWA OH-58 - LEVEL FLYOVER AT 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 79.8 | 25.5 | 102.5 | 50.5 | 85.0 | | |
| 1.0 | 79.4 | 26.0 | 102.1 | 51.0 | 83.3 | | |
| 1.5 | 83.5 | 26.5 | 101.5 | 51.5 | 79.7 | | |
| 2.0 | 91.0 | 27.0 | 99.6 | 52.0 | 74.5 | | |
| 2.5 | 93.0 | 27.5 | 100.5 | | | | |
| 3.0 | 91.8 | 28.0 | 101.0 | | | | |
| 3.5 | 91.4 | 28.5 | 102.6 | | | | |
| 4.0 | 90.2 | 29.0 | 102.0 | | | | |
| 4.5 | 90.2 | 29.5 | 100.2 | | | | |
| 5.0 | 91.1 | 30.0 | 100.8 | | | | |
| 5.5 | 91.1 | 30.5 | 101.7 | | | | |
| 6.0 | 90.1 | 31.0 | 101.0 | | | | |
| 6.5 | 90.7 | 31.5 | 101.9 | | | | |
| 7.0 | 88.8 | 32.0 | 102.5 | | | | |
| 7.5 | 90.0 | 32.5 | 101.6 | | | | |
| 8.0 | 88.7 | 33.0 | 100.7 | | | | |
| 8.5 | 87.7 | 33.5 | 99.9 | | | | |
| 9.0 | 87.0 | 34.0 | 99.7 | | | | |
| 9.5 | 86.4 | 34.5 | 99.4 | | | | |
| 10.0 | 87.6 | 35.0 | 99.1 | | | | |
| 10.5 | 87.8 | 35.5 | 100.6 | | | | |
| 11.0 | 89.0 | 36.0 | 99.8 | | | | |
| 11.5 | 88.5 | 36.5 | 97.2 | | | | |
| 12.0 | 90.2 | 37.0 | 99.4 | | | | |
| 12.5 | 89.0 | 37.5 | 97.2 | | | | |
| 13.0 | 90.2 | 38.0 | 98.1 | | | | |
| 13.5 | 91.5 | 38.5 | 97.3 | | | | |
| 14.0 | 93.2 | 39.0 | 97.8 | | | | |
| 14.5 | 92.6 | 39.5 | 96.5 | | | | |
| 15.0 | 94.3 | 40.0 | 95.6 | | | | |
| 15.5 | 93.0 | 40.5 | 95.1 | | | | |
| 16.0 | 91.4 | 41.0 | 94.3 | | | | |
| 16.5 | 88.5 | 41.5 | 93.2 | | | | |
| 17.0 | 93.8 | 42.0 | 95.4 | | | | |
| 17.5 | 95.0 | 42.5 | 94.9 | | | | |
| 18.0 | 95.6 | 43.0 | 92.3 | | | | |
| 18.5 | 97.1 | 43.5 | 93.4 | | | | |
| 19.0 | 97.8 | 44.0 | 93.3 | | | | |
| 19.5 | 97.9 | 44.5 | 94.0 | | | | |
| 20.0 | 96.7 | 45.0 | 94.7 | | | | |
| 20.5 | 98.6 | 45.5 | 91.5 | | | | |
| 21.0 | 98.6 | 46.0 | 90.2 | | | | |
| 21.5 | 97.5 | 46.5 | 91.1 | | | | |
| 22.0 | 98.5 | 47.0 | 90.6 | | | | |
| 22.5 | 99.5 | 47.5 | 92.6 | | | | |
| 23.0 | 100.3 | 48.0 | 93.4 | | | | |
| 23.5 | 99.9 | 48.5 | 93.0 | | | | |
| 24.0 | 100.4 | 49.0 | 89.4 | | | | |
| 24.5 | 101.6 | 49.5 | 89.1 | | | | |
| 25.0 | 101.8 | 50.0 | 83.2 | | | | |

MAN ACOUSTICS #17 KIOWA OH-58 - ROUTINE APPROACH

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 83.3 | 25.5 | 93.7 | 50.5 | 91.4 | | |
| 1.0 | 85.1 | 26.0 | 95.2 | 51.0 | 92.0 | | |
| 1.5 | 83.9 | 26.5 | 95.1 | 51.5 | 90.1 | | |
| 2.0 | 88.0 | 27.0 | 96.1 | 52.0 | 92.1 | | |
| 2.5 | 89.6 | 27.5 | 96.3 | 52.5 | 90.6 | | |
| 3.0 | 90.5 | 28.0 | 97.4 | | | | |
| 3.5 | 87.2 | 28.5 | 96.3 | | | | |
| 4.0 | 86.0 | 29.0 | 98.0 | | | | |
| 4.5 | 88.4 | 29.5 | 100.2 | | | | |
| 5.0 | 87.4 | 30.0 | 97.8 | | | | |
| 5.5 | 84.7 | 30.5 | 97.5 | | | | |
| 6.0 | 84.1 | 31.0 | 96.5 | | | | |
| 6.5 | 85.6 | 31.5 | 101.6 | | | | |
| 7.0 | 83.9 | 32.0 | 99.8 | | | | |
| 7.5 | 85.3 | 32.5 | 97.9 | | | | |
| 8.0 | 85.1 | 33.0 | 96.9 | | | | |
| 8.5 | 87.8 | 33.5 | 96.5 | | | | |
| 9.0 | 88.0 | 34.0 | 97.6 | | | | |
| 9.5 | 86.0 | 34.5 | 98.1 | | | | |
| 10.0 | 85.2 | 35.0 | 97.7 | | | | |
| 10.5 | 84.2 | 35.5 | 98.0 | | | | |
| 11.0 | 82.3 | 36.0 | 98.9 | | | | |
| 11.5 | 84.3 | 36.5 | 100.1 | | | | |
| 12.0 | 84.8 | 37.0 | 99.1 | | | | |
| 12.5 | 84.5 | 37.5 | 100.0 | | | | |
| 13.0 | 85.5 | 38.0 | 99.8 | | | | |
| 13.5 | 89.6 | 38.5 | 99.9 | | | | |
| 14.0 | 88.3 | 39.0 | 99.8 | | | | |
| 14.5 | 88.2 | 39.5 | 100.5 | | | | |
| 15.0 | 91.3 | 40.0 | 100.1 | | | | |
| 15.5 | 90.7 | 40.5 | 99.1 | | | | |
| 16.0 | 89.3 | 41.0 | 97.1 | | | | |
| 16.5 | 88.7 | 41.5 | 97.6 | | | | |
| 17.0 | 88.8 | 42.0 | 97.2 | | | | |
| 17.5 | 87.8 | 42.5 | 97.8 | | | | |
| 18.0 | 86.4 | 43.0 | 98.5 | | | | |
| 18.5 | 87.0 | 43.5 | 98.0 | | | | |
| 19.0 | 86.0 | 44.0 | 97.9 | | | | |
| 19.5 | 86.5 | 44.5 | 95.8 | | | | |
| 20.0 | 90.3 | 45.0 | 95.5 | | | | |
| 20.5 | 89.9 | 45.5 | 95.1 | | | | |
| 21.0 | 88.6 | 46.0 | 94.3 | | | | |
| 21.5 | 90.1 | 46.5 | 92.9 | | | | |
| 22.0 | 92.8 | 47.0 | 92.9 | | | | |
| 22.5 | 92.1 | 47.5 | 93.1 | | | | |
| 23.0 | 91.3 | 48.0 | 92.4 | | | | |
| 23.5 | 94.8 | 48.5 | 94.0 | | | | |
| 24.0 | 93.7 | 49.0 | 93.1 | | | | |
| 24.5 | 94.3 | 49.5 | 90.8 | | | | |
| 25.0 | 95.1 | 50.0 | 90.9 | | | | |

MAN-ACOUSTICS #20. SEA KNIGHT -- LEVEL FLYOVER AT 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 83.5 | 25.5 | 96.2 | | | | |
| 1.0 | 84.0 | 26.0 | 96.5 | | | | |
| 1.5 | 87.4 | 26.5 | 96.5 | | | | |
| 2.0 | 88.3 | 27.0 | 95.2 | | | | |
| 2.5 | 87.4 | 27.5 | 97.4 | | | | |
| 3.0 | 90.1 | 28.0 | 96.0 | | | | |
| 3.5 | 89.8 | 28.5 | 93.5 | | | | |
| 4.0 | 86.4 | 29.0 | 95.8 | | | | |
| 4.5 | 87.2 | 29.5 | 92.2 | | | | |
| 5.0 | 85.2 | 30.0 | 92.6 | | | | |
| 5.5 | 87.5 | 30.5 | 94.2 | | | | |
| 6.0 | 90.5 | 31.0 | 92.7 | | | | |
| 6.5 | 91.7 | 31.5 | 94.5 | | | | |
| 7.0 | 90.6 | 32.0 | 92.6 | | | | |
| 7.5 | 90.3 | 32.5 | 92.9 | | | | |
| 8.0 | 90.5 | 33.0 | 99.4 | | | | |
| 8.5 | 89.3 | 33.5 | 97.2 | | | | |
| 9.0 | 91.4 | 34.0 | 90.5 | | | | |
| 9.5 | 90.2 | 34.5 | 90.5 | | | | |
| 10.0 | 88.4 | 35.0 | 93.5 | | | | |
| 10.5 | 91.8 | 35.5 | 93.9 | | | | |
| 11.0 | 99.7 | 36.0 | 94.7 | | | | |
| 11.5 | 93.5 | 36.5 | 95.6 | | | | |
| 12.0 | 92.7 | 37.0 | 92.2 | | | | |
| 12.5 | 93.5 | 37.5 | 95.1 | | | | |
| 13.0 | 91.3 | 38.0 | 93.3 | | | | |
| 13.5 | 87.2 | 38.5 | 91.4 | | | | |
| 14.0 | 91.7 | 39.0 | 89.8 | | | | |
| 14.5 | 94.1 | 39.5 | 90.2 | | | | |
| 15.0 | 93.1 | 40.0 | 87.5 | | | | |
| 15.5 | 96.2 | 40.5 | 90.2 | | | | |
| 16.0 | 91.6 | 41.0 | 84.4 | | | | |
| 16.5 | 94.8 | 41.5 | 89.8 | | | | |
| 17.0 | 98.4 | 42.0 | 90.5 | | | | |
| 17.5 | 101.2 | 42.5 | 89.5 | | | | |
| 18.0 | 100.4 | 43.0 | 89.9 | | | | |
| 18.5 | 99.7 | 43.5 | 91.8 | | | | |
| 19.0 | 105.1 | 44.0 | 89.8 | | | | |
| 19.5 | 102.0 | 44.5 | 89.9 | | | | |
| 20.0 | 103.5 | | | | | | |
| 20.5 | 102.6 | | | | | | |
| 21.0 | 103.0 | | | | | | |
| 21.5 | 104.3 | | | | | | |
| 22.0 | 104.0 | | | | | | |
| 22.5 | 105.3 | | | | | | |
| 23.0 | 105.5 | | | | | | |
| 23.5 | 105.0 | | | | | | |
| 24.0 | 101.2 | | | | | | |
| 24.5 | 98.1 | | | | | | |
| 25.0 | 98.4 | | | | | | |

MAN-ACOUSTICS #21: SEA KNIGHT - SHALLOW TURN OPERATION

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 74.3 | 25.5 | 102.7 | 50.5 | 102.3 | | |
| 1.0 | 80.1 | 26.0 | 102.3 | 51.0 | 103.6 | | |
| 1.5 | 81.7 | 26.5 | 100.9 | 51.5 | 103.2 | | |
| 2.0 | 85.9 | 27.0 | 101.2 | 52.0 | 101.6 | | |
| 2.5 | 85.8 | 27.5 | 102.5 | | | | |
| 3.0 | 87.0 | 28.0 | 101.0 | | | | |
| 3.5 | 91.4 | 28.5 | 102.0 | | | | |
| 4.0 | 93.0 | 29.0 | 102.2 | | | | |
| 4.5 | 93.3 | 29.5 | 101.0 | | | | |
| 5.0 | 99.3 | 30.0 | 102.2 | | | | |
| 5.5 | 98.8 | 30.5 | 103.9 | | | | |
| 6.0 | 103.7 | 31.0 | 104.4 | | | | |
| 6.5 | 104.9 | 31.5 | 102.4 | | | | |
| 7.0 | 103.6 | 32.0 | 102.6 | | | | |
| 7.5 | 104.6 | 32.5 | 102.0 | | | | |
| 8.0 | 106.4 | 33.0 | 107.0 | | | | |
| 8.5 | 106.5 | 33.5 | 103.1 | | | | |
| 9.0 | 104.3 | 34.0 | 105.5 | | | | |
| 9.5 | 108.5 | 34.5 | 103.7 | | | | |
| 10.0 | 107.6 | 35.0 | 102.7 | | | | |
| 10.5 | 107.0 | 35.5 | 101.5 | | | | |
| 11.0 | 106.8 | 36.0 | 103.4 | | | | |
| 11.5 | 106.7 | 36.5 | 101.4 | | | | |
| 12.0 | 107.7 | 37.0 | 102.3 | | | | |
| 12.5 | 107.3 | 37.5 | 102.1 | | | | |
| 13.0 | 105.7 | 38.0 | 102.1 | | | | |
| 13.5 | 105.7 | 38.5 | 102.7 | | | | |
| 14.0 | 104.1 | 39.0 | 101.8 | | | | |
| 14.5 | 102.2 | 39.5 | 103.8 | | | | |
| 15.0 | 104.1 | 40.0 | 102.0 | | | | |
| 15.5 | 102.7 | 40.5 | 101.6 | | | | |
| 16.0 | 102.5 | 41.0 | 102.5 | | | | |
| 16.5 | 103.1 | 41.5 | 104.0 | | | | |
| 17.0 | 106.6 | 42.0 | 101.9 | | | | |
| 17.5 | 103.9 | 42.5 | 105.2 | | | | |
| 18.0 | 102.2 | 43.0 | 104.8 | | | | |
| 18.5 | 105.9 | 43.5 | 103.4 | | | | |
| 19.0 | 98.0 | 44.0 | 106.1 | | | | |
| 19.5 | 102.3 | 44.5 | 104.3 | | | | |
| 20.0 | 98.4 | 45.0 | 103.5 | | | | |
| 20.5 | 100.2 | 45.5 | 103.7 | | | | |
| 21.0 | 104.8 | 46.0 | 102.7 | | | | |
| 21.5 | 103.1 | 46.5 | 102.6 | | | | |
| 22.0 | 103.3 | 47.0 | 105.4 | | | | |
| 22.5 | 103.5 | 47.5 | 102.3 | | | | |
| 23.0 | 102.5 | 48.0 | 103.5 | | | | |
| 23.5 | 99.8 | 48.5 | 104.4 | | | | |
| 24.0 | 104.7 | 49.0 | 103.5 | | | | |
| 24.5 | 101.9 | 49.5 | 103.1 | | | | |
| 25.0 | 103.6 | 50.0 | 104.5 | | | | |

MAN-ACOUSTICS #2: HUGHES 300 - STEEP TURN OPERATION

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 86.6 | 25.5 | 103.7 | 50.5 | 104.5 | 75.5 | 99.9 |
| 1.0 | 90.9 | 26.0 | 104.3 | 51.0 | 103.8 | 76.0 | 98.7 |
| 1.5 | 92.6 | 26.5 | 103.2 | 51.5 | 104.8 | 76.5 | 101.5 |
| 2.0 | 92.4 | 27.0 | 103.9 | 52.0 | 104.3 | 77.0 | 100.4 |
| 2.5 | 92.5 | 27.5 | 103.4 | 52.5 | 104.5 | 77.5 | 96.2 |
| 3.0 | 92.6 | 28.0 | 101.6 | 53.0 | 105.1 | 78.0 | 98.1 |
| 3.5 | 90.9 | 28.5 | 103.5 | 53.5 | 104.6 | 78.5 | 93.6 |
| 4.0 | 90.3 | 29.0 | 103.6 | 54.0 | 105.1 | 79.0 | 94.7 |
| 4.5 | 93.7 | 29.5 | 103.8 | 54.5 | 104.3 | 79.5 | 93.6 |
| 5.0 | 93.2 | 30.0 | 103.8 | 55.0 | 103.4 | 80.0 | 91.2 |
| 5.5 | 92.7 | 30.5 | 104.6 | 55.5 | 104.0 | | |
| 6.0 | 93.6 | 31.0 | 105.0 | 56.0 | 105.2 | | |
| 6.5 | 93.9 | 31.5 | 103.9 | 56.5 | 105.1 | | |
| 7.0 | 95.0 | 32.0 | 103.1 | 57.0 | 103.8 | | |
| 7.5 | 93.7 | 32.5 | 104.8 | 57.5 | 104.6 | | |
| 8.0 | 94.5 | 33.0 | 103.2 | 58.0 | 102.3 | | |
| 8.5 | 95.2 | 33.5 | 104.8 | 58.5 | 101.3 | | |
| 9.0 | 93.0 | 34.0 | 103.6 | 59.0 | 101.1 | | |
| 9.5 | 93.4 | 34.5 | 104.0 | 59.5 | 103.1 | | |
| 10.0 | 94.8 | 35.0 | 105.1 | 60.0 | 102.6 | | |
| 10.5 | 95.4 | 35.5 | 103.4 | 60.5 | 101.8 | | |
| 11.0 | 96.1 | 36.0 | 103.8 | 61.0 | 101.7 | | |
| 11.5 | 95.8 | 36.5 | 103.6 | 61.5 | 103.0 | | |
| 12.0 | 94.4 | 37.0 | 103.2 | 62.0 | 102.4 | | |
| 12.5 | 95.4 | 37.5 | 103.5 | 62.5 | 100.7 | | |
| 13.0 | 95.4 | 38.0 | 102.5 | 63.0 | 97.6 | | |
| 13.5 | 95.1 | 38.5 | 102.7 | 63.5 | 94.9 | | |
| 14.0 | 95.7 | 39.0 | 104.1 | 64.0 | 100.3 | | |
| 14.5 | 96.4 | 39.5 | 103.7 | 64.5 | 102.0 | | |
| 15.0 | 96.4 | 40.0 | 103.0 | 65.0 | 100.4 | | |
| 15.5 | 96.2 | 40.5 | 103.3 | 65.5 | 102.1 | | |
| 16.0 | 96.6 | 41.0 | 103.5 | 66.0 | 101.2 | | |
| 16.5 | 97.0 | 41.5 | 103.1 | 66.5 | 98.8 | | |
| 17.0 | 98.2 | 42.0 | 102.8 | 67.0 | 97.9 | | |
| 17.5 | 97.8 | 42.5 | 104.1 | 67.5 | 96.1 | | |
| 18.0 | 98.7 | 43.0 | 103.1 | 68.0 | 97.0 | | |
| 18.5 | 101.1 | 43.5 | 105.0 | 68.5 | 102.1 | | |
| 19.0 | 101.7 | 44.0 | 103.3 | 69.0 | 103.6 | | |
| 19.5 | 102.8 | 44.5 | 102.2 | 69.5 | 101.8 | | |
| 20.0 | 103.5 | 45.0 | 101.5 | 70.0 | 100.0 | | |
| 20.5 | 102.6 | 45.5 | 102.3 | 70.5 | 97.7 | | |
| 21.0 | 102.9 | 46.0 | 102.2 | 71.0 | 98.4 | | |
| 21.5 | 103.8 | 46.5 | 104.3 | 71.5 | 102.3 | | |
| 22.0 | 103.3 | 47.0 | 103.5 | 72.0 | 101.4 | | |
| 22.5 | 104.3 | 47.5 | 102.8 | 72.5 | 99.6 | | |
| 23.0 | 102.6 | 48.0 | 103.6 | 73.0 | 97.7 | | |
| 23.5 | 102.8 | 48.5 | 102.5 | 73.5 | 96.8 | | |
| 24.0 | 103.6 | 49.0 | 102.8 | 74.0 | 95.7 | | |
| 24.5 | 102.7 | 49.5 | 102.8 | 74.5 | 97.2 | | |
| 25.0 | 103.4 | 50.0 | 102.7 | 75.0 | 97.8 | | |

MAN ACOUSTICS #20: BELL UH-1H (HUEY - ROUTINE TAKEOFF

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 89.8 | 25.5 | 84.5 | | | | |
| 1.0 | 92.5 | 26.0 | 82.8 | | | | |
| 1.5 | 93.4 | 26.5 | 82.6 | | | | |
| 2.0 | 89.7 | 27.0 | 84.1 | | | | |
| 2.5 | 89.0 | | | | | | |
| 3.0 | 90.2 | | | | | | |
| 3.5 | 86.9 | | | | | | |
| 4.0 | 84.0 | | | | | | |
| 4.5 | 89.3 | | | | | | |
| 5.0 | 85.4 | | | | | | |
| 5.5 | 86.1 | | | | | | |
| 6.0 | 86.4 | | | | | | |
| 6.5 | 88.6 | | | | | | |
| 7.0 | 86.6 | | | | | | |
| 7.5 | 87.0 | | | | | | |
| 8.0 | 85.6 | | | | | | |
| 8.5 | 88.8 | | | | | | |
| 9.0 | 88.3 | | | | | | |
| 9.5 | 89.8 | | | | | | |
| 10.0 | 95.1 | | | | | | |
| 10.5 | 98.0 | | | | | | |
| 11.0 | 97.4 | | | | | | |
| 11.5 | 94.6 | | | | | | |
| 12.0 | 92.0 | | | | | | |
| 12.5 | 90.1 | | | | | | |
| 13.0 | 92.4 | | | | | | |
| 13.5 | 96.8 | | | | | | |
| 14.0 | 97.4 | | | | | | |
| 14.5 | 99.0 | | | | | | |
| 15.0 | 94.9 | | | | | | |
| 15.5 | 95.3 | | | | | | |
| 16.0 | 100.4 | | | | | | |
| 16.5 | 99.5 | | | | | | |
| 17.0 | 102.4 | | | | | | |
| 17.5 | 100.1 | | | | | | |
| 18.0 | 101.2 | | | | | | |
| 18.5 | 100.9 | | | | | | |
| 19.0 | 102.5 | | | | | | |
| 19.5 | 99.4 | | | | | | |
| 20.0 | 97.9 | | | | | | |
| 20.5 | 100.3 | | | | | | |
| 21.0 | 98.5 | | | | | | |
| 21.5 | 96.1 | | | | | | |
| 22.0 | 92.7 | | | | | | |
| 22.5 | 96.2 | | | | | | |
| 23.0 | 89.0 | | | | | | |
| 23.5 | 95.2 | | | | | | |
| 24.0 | 89.0 | | | | | | |
| 24.5 | 87.5 | | | | | | |
| 25.0 | 85.4 | | | | | | |

MAN ACOUSTICS #24: HUGHES 300 - LEVEL FLYOVER AT 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 83.5 | 25.5 | 100.0 | 50.5 | 99.1 | | |
| 1.0 | 86.7 | 26.0 | 101.0 | 51.0 | 98.2 | | |
| 1.5 | 89.9 | 26.5 | 102.2 | 51.5 | 98.1 | | |
| 2.0 | 89.8 | 27.0 | 101.3 | 52.0 | 96.5 | | |
| 2.5 | 91.0 | 27.5 | 101.5 | 52.5 | 97.9 | | |
| 3.0 | 89.8 | 28.0 | 101.7 | 53.0 | 95.3 | | |
| 3.5 | 89.9 | 28.5 | 102.2 | 53.5 | 94.5 | | |
| 4.0 | 91.4 | 29.0 | 101.4 | 54.0 | 94.0 | | |
| 4.5 | 89.2 | 29.5 | 101.0 | 54.5 | 97.2 | | |
| 5.0 | 93.4 | 30.0 | 103.6 | 55.0 | 98.9 | | |
| 5.5 | 94.5 | 30.5 | 102.0 | 55.5 | 98.6 | | |
| 6.0 | 92.6 | 31.0 | 104.4 | 56.0 | 97.1 | | |
| 6.5 | 93.1 | 31.5 | 105.6 | 56.5 | 98.8 | | |
| 7.0 | 93.7 | 32.0 | 104.0 | 57.0 | 100.6 | | |
| 7.5 | 91.6 | 32.5 | 103.9 | 57.5 | 97.2 | | |
| 8.0 | 92.6 | 33.0 | 103.6 | 58.0 | 94.6 | | |
| 8.5 | 92.9 | 33.5 | 102.4 | 58.5 | 96.5 | | |
| 9.0 | 91.5 | 34.0 | 105.1 | 59.0 | 97.8 | | |
| 9.5 | 92.1 | 34.5 | 103.4 | 59.5 | 95.8 | | |
| 10.0 | 95.1 | 35.0 | 104.3 | 60.0 | 96.9 | | |
| 10.5 | 95.4 | 35.5 | 104.6 | 60.5 | 93.8 | | |
| 11.0 | 95.3 | 36.0 | 101.6 | 61.0 | 94.0 | | |
| 11.5 | 95.2 | 36.5 | 102.7 | 61.5 | 96.0 | | |
| 12.0 | 95.6 | 37.0 | 103.4 | 62.0 | 94.5 | | |
| 12.5 | 93.2 | 37.5 | 102.1 | 62.5 | 95.2 | | |
| 13.0 | 93.8 | 38.0 | 102.9 | 63.0 | 95.5 | | |
| 13.5 | 94.5 | 38.5 | 101.7 | 63.5 | 94.6 | | |
| 14.0 | 94.3 | 39.0 | 102.1 | 64.0 | 95.5 | | |
| 14.5 | 94.1 | 39.5 | 101.4 | 64.5 | 94.0 | | |
| 15.0 | 93.3 | 40.0 | 101.4 | 65.0 | 93.7 | | |
| 15.5 | 93.8 | 40.5 | 99.6 | 65.5 | 92.6 | | |
| 16.0 | 92.8 | 41.0 | 99.4 | 66.0 | 93.1 | | |
| 16.5 | 94.3 | 41.5 | 101.5 | 66.5 | 93.9 | | |
| 17.0 | 93.9 | 42.0 | 100.7 | 67.0 | 96.9 | | |
| 17.5 | 93.4 | 42.5 | 102.5 | 67.5 | 96.9 | | |
| 18.0 | 94.4 | 43.0 | 103.1 | 68.0 | 96.2 | | |
| 18.5 | 98.3 | 43.5 | 100.5 | 68.5 | 96.0 | | |
| 19.0 | 96.2 | 44.0 | 99.9 | 69.0 | 95.8 | | |
| 19.5 | 98.2 | 44.5 | 99.3 | 69.5 | 98.0 | | |
| 20.0 | 95.9 | 45.0 | 99.4 | 70.0 | 98.0 | | |
| 20.5 | 97.7 | 45.5 | 98.3 | 70.5 | 96.9 | | |
| 21.0 | 97.7 | 46.0 | 99.0 | 71.0 | 94.2 | | |
| 21.5 | 98.7 | 46.5 | 100.7 | 71.5 | 91.2 | | |
| 22.0 | 99.6 | 47.0 | 98.8 | 72.0 | 91.9 | | |
| 22.5 | 98.0 | 47.5 | 99.2 | 72.5 | 89.9 | | |
| 23.0 | 98.1 | 48.0 | 99.2 | 73.0 | 90.3 | | |
| 23.5 | 101.5 | 48.5 | 99.8 | | | | |
| 24.0 | 101.4 | 49.0 | 101.2 | | | | |
| 24.5 | 103.5 | 49.5 | 102.9 | | | | |
| 25.0 | 100.1 | 50.0 | 101.8 | | | | |

MAN ACOUSTICS, EVENT #1

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 54.2 | 1.6 | 55.8 | 56.1 | 45.2 | 53.3 | 60.3 | 0.2 |
| 0.5 | 54.6 | 1.1 | 55.7 | 58.1 | 45.1 | 53.6 | 60.6 | 0.2 |
| 1.0 | 56.6 | 1.1 | 57.7 | 57.8 | 47.3 | 54.6 | 61.6 | 0.2 |
| 1.5 | 70.6 | 3.0 | 73.6 | 65.2 | 59.5 | 65.1 | 72.1 | 1.1 |
| 2.0 | 87.1 | 3.7 | 90.8 | 81.2 | 75.9 | 81.0 | 88.0 | 1.1 |
| 2.5 | 92.8 | 3.4 | 96.2 | 87.1 | 81.5 | 86.7 | 93.7 | 1.1 |
| 3.0 | 95.7 | 3.5 | 99.2 | 89.7 | 84.5 | 89.7 | 96.7 | 1.1 |
| 3.5 | 97.0 | 3.3 | 100.3 | 91.0 | 85.6 | 90.9 | 97.9 | 1.1 |
| 4.0 | 97.5 | 3.4 | 100.9 | 91.3 | 86.3 | 91.6 | 98.6 | 1.1 |
| 4.5 | 97.8 | 3.3 | 101.1 | 91.6 | 86.5 | 91.8 | 98.8 | 0.4 |
| 5.0 | 97.9 | 3.3 | 101.2 | 91.6 | 86.6 | 92.0 | 99.0 | 0.4 |
| 5.5 | 98.0 | 3.3 | 101.3 | 91.7 | 86.7 | 92.1 | 99.1 | 1.1 |
| 6.0 | 97.9 | 3.3 | 101.2 | 91.6 | 86.7 | 92.1 | 99.1 | 1.1 |
| 6.5 | 98.1 | 3.3 | 101.4 | 91.8 | 86.7 | 92.1 | 99.1 | 0.4 |
| 7.0 | 98.0 | 3.3 | 101.3 | 91.6 | 86.7 | 92.2 | 99.2 | 0.4 |
| 7.5 | 98.1 | 3.3 | 101.4 | 91.8 | 86.8 | 92.1 | 99.1 | 0.4 |
| 8.0 | 98.0 | 3.4 | 101.4 | 91.6 | 86.7 | 92.1 | 99.1 | 1.1 |
| 8.5 | 98.0 | 3.4 | 101.4 | 91.7 | 86.7 | 92.1 | 99.1 | 1.1 |
| 9.0 | 98.1 | 3.3 | 101.4 | 91.7 | 86.8 | 92.2 | 99.2 | 0.4 |
| 9.5 | 98.2 | 3.3 | 101.5 | 91.8 | 86.8 | 92.2 | 99.2 | 0.4 |
| 10.0 | 98.1 | 3.3 | 101.4 | 91.7 | 86.8 | 92.2 | 99.2 | 0.4 |
| 10.5 | 98.1 | 3.4 | 101.5 | 91.8 | 86.8 | 92.2 | 99.2 | 1.1 |
| 11.0 | 98.0 | 3.3 | 101.3 | 91.7 | 86.8 | 92.1 | 99.1 | 0.4 |
| 11.5 | 98.2 | 3.3 | 101.5 | 91.8 | 86.9 | 92.2 | 99.2 | 0.4 |
| 12.0 | 98.1 | 3.3 | 101.4 | 91.8 | 86.9 | 92.2 | 99.2 | 0.4 |
| 12.5 | 98.0 | 3.3 | 101.3 | 91.7 | 86.8 | 92.1 | 99.1 | 0.4 |
| 13.0 | 98.0 | 3.3 | 101.3 | 91.6 | 86.7 | 92.1 | 99.1 | 0.4 |
| 13.5 | 97.7 | 3.4 | 101.1 | 91.4 | 86.5 | 91.9 | 98.9 | 1.1 |
| 14.0 | 96.8 | 3.3 | 100.1 | 90.6 | 85.6 | 91.0 | 98.0 | 0.4 |
| 14.5 | 95.0 | 3.3 | 98.3 | 88.6 | 83.8 | 89.2 | 96.2 | 0.4 |
| 15.0 | 92.6 | 3.3 | 95.9 | 86.2 | 81.5 | 86.9 | 93.9 | 0.4 |
| 15.5 | 90.4 | 3.3 | 93.7 | 84.0 | 79.3 | 84.7 | 91.7 | 0.4 |
| 16.0 | 88.0 | 3.1 | 91.1 | 81.6 | 76.9 | 82.4 | 89.4 | 1.1 |
| 16.5 | 85.7 | 3.2 | 88.9 | 79.3 | 74.6 | 80.1 | 87.1 | 1.1 |
| 17.0 | 83.2 | 3.1 | 86.3 | 76.9 | 72.3 | 77.7 | 84.7 | 1.1 |
| 17.5 | 80.5 | 3.1 | 83.6 | 74.1 | 69.9 | 75.2 | 82.2 | 1.1 |
| 18.0 | 78.3 | 3.1 | 81.4 | 71.9 | 67.6 | 73.0 | 80.0 | 1.1 |

MAXIMUM VALUES IN BANDS, PNLC = 98.3

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 52.2 | 55.2 | 64.1 | 83.8 | 67.2 | 63.3 | 85.2 | 74.2 | 86.9 | 67.2 |
| 83.0 | 79.0 | 75.1 | 72.7 | 74.6 | 75.4 | 75.6 | 73.8 | 69.1 | 62.7 |
| 54.2 | 46.5 | 43.2 | 43.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 50.9 | 53.5 | 64.1 | 83.7 | 66.9 | 63.2 | 85.1 | 74.2 | 86.9 | 67.0 |
| 82.9 | 78.8 | 74.6 | 72.6 | 74.3 | 74.7 | 75.5 | 73.3 | 68.7 | 62.6 |
| 54.0 | 46.4 | 43.2 | 42.7 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 2.0 | 3.7 | | | | | | |
| PNL | 9.5 | 98.2 | 14.0 | 108.7 | 16.5 | 108.7 | 97.9 | 95.6 |
| PNLT | 9.5 | 101.5 | 14.0 | 112.0 | 16.5 | 112.1 | 101.2 | 98.9 |
| A-LEV | 11.5 | 86.9 | 14.0 | 97.4 | 16.5 | 97.5 | 86.6 | 84.3 |
| N-LEV | 7.0 | 99.2 | 14.5 | 109.8 | 16.5 | 109.8 | 99.1 | 96.6 |

EPNL = 102.0

MAN ACOUSTICS, EVENT #2

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 61.4 | 1.4 | 62.8 | 53.4 | 48.5 | 56.5 | 63.5 | 0.2 |
| 0.5 | 61.7 | 1.6 | 63.3 | 53.7 | 48.6 | 56.7 | 63.7 | 0.2 |
| 1.0 | 61.7 | 1.5 | 63.2 | 54.1 | 48.5 | 56.6 | 63.6 | 0.2 |
| 1.5 | 62.1 | 1.3 | 63.4 | 54.3 | 48.8 | 56.9 | 63.9 | 0.2 |
| 2.0 | 62.3 | 1.4 | 63.7 | 54.5 | 49.0 | 57.0 | 64.0 | 0.2 |
| 2.5 | 62.4 | 1.5 | 63.9 | 54.8 | 49.1 | 57.1 | 64.1 | 0.2 |
| 3.0 | 64.3 | 2.0 | 66.3 | 57.2 | 51.0 | 58.4 | 65.4 | 1.1 |
| 3.5 | 78.5 | 2.9 | 81.4 | 72.1 | 66.7 | 71.9 | 78.9 | 1.1 |
| 4.0 | 88.3 | 3.1 | 91.4 | 82.3 | 76.5 | 81.7 | 88.7 | 1.1 |
| 4.5 | 92.7 | 3.0 | 95.7 | 86.5 | 81.0 | 86.1 | 93.1 | 1.1 |
| 5.0 | 95.6 | 3.1 | 98.7 | 89.3 | 83.7 | 88.9 | 95.9 | 1.1 |
| 5.5 | 97.1 | 3.0 | 100.1 | 90.7 | 85.1 | 90.4 | 97.4 | 1.1 |
| 6.0 | 97.7 | 2.9 | 100.6 | 91.2 | 85.8 | 91.1 | 98.1 | 1.1 |
| 6.5 | 98.1 | 2.8 | 100.9 | 91.7 | 86.1 | 91.5 | 98.5 | 1.1 |
| 7.0 | 98.3 | 2.8 | 101.1 | 91.7 | 86.3 | 91.7 | 98.7 | 1.1 |
| 7.5 | 98.3 | 2.8 | 101.1 | 91.8 | 86.3 | 91.7 | 98.7 | 1.1 |
| 8.0 | 98.3 | 2.9 | 101.2 | 91.6 | 86.4 | 91.8 | 98.8 | 1.1 |
| 8.5 | 98.4 | 2.9 | 101.3 | 91.8 | 86.4 | 91.8 | 98.8 | 1.1 |
| 9.0 | 98.4 | 2.9 | 101.3 | 91.7 | 86.4 | 91.8 | 98.8 | 1.1 |
| 9.5 | 98.3 | 2.8 | 101.1 | 91.7 | 86.4 | 91.8 | 98.8 | 1.1 |
| 10.0 | 98.4 | 2.8 | 101.2 | 91.8 | 86.4 | 91.9 | 98.9 | 1.1 |
| 10.5 | 98.4 | 2.8 | 101.2 | 91.7 | 86.5 | 91.9 | 98.9 | 1.1 |
| 11.0 | 98.4 | 2.8 | 101.2 | 91.9 | 86.5 | 91.9 | 98.9 | 1.1 |
| 11.5 | 98.4 | 2.8 | 101.2 | 91.7 | 86.5 | 91.9 | 98.9 | 1.1 |
| 12.0 | 98.4 | 2.7 | 101.1 | 91.9 | 86.5 | 91.9 | 98.9 | 1.1 |
| 12.5 | 98.5 | 2.8 | 101.3 | 91.8 | 86.5 | 91.8 | 98.8 | 1.1 |
| 13.0 | 98.5 | 2.8 | 101.3 | 91.9 | 86.5 | 91.9 | 98.9 | 1.1 |
| 13.5 | 98.4 | 2.8 | 101.2 | 91.7 | 86.5 | 91.9 | 98.9 | 1.1 |
| 14.0 | 98.4 | 2.8 | 101.2 | 91.8 | 86.5 | 91.8 | 98.8 | 1.1 |
| 14.5 | 98.5 | 2.9 | 101.4 | 91.9 | 86.6 | 91.9 | 98.9 | 1.1 |
| 15.0 | 98.5 | 2.8 | 101.3 | 91.9 | 86.6 | 91.9 | 98.9 | 1.1 |
| 15.5 | 97.4 | 2.6 | 100.0 | 91.0 | 85.5 | 90.8 | 97.8 | 1.1 |
| 16.0 | 95.4 | 2.6 | 98.0 | 88.9 | 83.6 | 88.9 | 95.9 | 1.1 |
| 16.5 | 93.2 | 2.6 | 95.8 | 86.6 | 81.3 | 86.7 | 93.7 | 1.1 |
| 17.0 | 90.9 | 2.6 | 93.5 | 84.4 | 79.1 | 84.4 | 91.4 | 1.1 |
| 17.5 | 88.6 | 2.6 | 91.2 | 82.2 | 76.9 | 82.2 | 89.2 | 1.1 |

MAXIMUM VALUES IN BANDS, PNLC = 98.7

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 73.7 | 73.4 | 73.7 | 84.2 | 71.6 | 70.6 | 85.4 | 75.0 | 86.6 | 69.6 |
| 82.6 | 78.7 | 74.6 | 72.7 | 74.6 | 74.7 | 75.1 | 73.3 | 68.0 | 62.3 |
| 56.0 | 52.3 | 49.1 | 46.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 73.6 | 73.1 | 73.6 | 83.7 | 71.4 | 70.4 | 85.2 | 75.0 | 86.6 | 69.4 |
| 82.6 | 78.6 | 74.3 | 72.4 | 74.5 | 74.7 | 74.6 | 72.4 | 67.6 | 62.0 |
| 55.7 | 52.0 | 48.6 | 45.5 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M | |
|---|---|---|---|---|---|---|---|---|---|
| P.T. | 4.0 | 3.1 | | | | | | | |
| PNL | 12.5 | 98.5 | 13.5 | 108.9 | 14.0 | 108.9 | 98.0 | 95.2 | |
| PNLT | 14.5 | 101.4 | 13.5 | 111.7 | 14.0 | 111.7 | 100.9 | 98.1 | |
| A-LEV | 14.5 | 86.6 | 13.5 | 96.9 | 14.5 | 96.9 | 86.1 | 83.4 | |
| N-LEV | 10.0 | 98.9 | 13.5 | 109.3 | 14.0 | 109.3 | 98.4 | 95.6 | A-76 |

EPNL =101.7

MAN ACOUSTICS, EVENT #3

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 52.7 | 3.3 | 56.2 | 59.4 | 46.3 | 54.8 | 61.8 | 0.5 |
| 0.5 | 50.6 | 3.3 | 53.9 | 57.4 | 44.3 | 52.8 | 59.8 | 0.5 |
| 1.0 | 45.6 | 3.3 | 48.9 | 53.1 | 39.8 | 48.5 | 55.5 | 0.6 |
| 1.5 | 43.3 | 3.3 | 46.6 | 51.0 | 37.7 | 46.4 | 53.4 | 0.6 |
| 2.0 | 0.0 | 0.0 | 0.0 | 13.9 | 11.8 | 19.2 | 26.2 | 0.1 |
| 2.5 | 20.6 | 3.3 | 23.9 | 50.1 | 24.3 | 39.6 | 46.6 | 0.2 |
| 3.0 | 0.0 | 0.0 | 0.0 | 13.9 | 11.8 | 19.2 | 26.2 | 0.1 |
| 3.5 | 20.6 | 3.3 | 23.9 | 50.1 | 24.3 | 39.6 | 46.6 | 0.2 |
| 4.0 | 62.1 | 1.2 | 63.3 | 63.9 | 55.8 | 60.7 | 67.7 | 0.9 |
| 4.5 | 80.3 | 2.1 | 82.4 | 75.5 | 69.3 | 74.5 | 81.5 | 1.1 |
| 5.0 | 88.3 | 2.3 | 90.6 | 83.1 | 76.4 | 81.8 | 88.8 | 1.1 |
| 5.5 | 92.7 | 2.2 | 94.9 | 86.8 | 80.2 | 85.7 | 92.7 | 1.1 |
| 6.0 | 95.3 | 2.1 | 97.4 | 89.2 | 82.5 | 88.1 | 95.1 | 1.1 |
| 6.5 | 96.4 | 2.3 | 98.7 | 90.2 | 83.7 | 89.2 | 96.2 | 1.1 |
| 7.0 | 97.0 | 2.1 | 99.1 | 90.7 | 84.1 | 89.7 | 96.7 | 1.1 |
| 7.5 | 97.2 | 2.1 | 99.3 | 90.9 | 84.4 | 90.0 | 97.0 | 1.1 |
| 8.0 | 97.5 | 2.0 | 99.5 | 91.2 | 84.5 | 90.3 | 97.3 | 1.1 |
| 8.5 | 97.5 | 2.1 | 99.6 | 91.1 | 84.6 | 90.3 | 97.3 | 1.1 |
| 9.0 | 97.5 | 2.1 | 99.6 | 91.1 | 84.7 | 90.4 | 97.4 | 1.1 |
| 9.5 | 97.5 | 2.1 | 99.6 | 91.1 | 84.7 | 90.4 | 97.4 | 1.1 |
| 10.0 | 97.6 | 2.0 | 99.6 | 91.1 | 84.7 | 90.4 | 97.4 | 1.1 |
| 10.5 | 97.8 | 2.0 | 99.8 | 91.2 | 84.7 | 90.4 | 97.4 | 1.1 |
| 11.0 | 97.7 | 2.0 | 99.7 | 91.2 | 84.7 | 90.4 | 97.4 | 1.1 |
| 11.5 | 97.6 | 2.1 | 99.7 | 91.3 | 84.7 | 90.4 | 97.4 | 1.1 |
| 12.0 | 97.6 | 2.0 | 99.6 | 91.2 | 84.7 | 90.4 | 97.4 | 1.1 |
| 12.5 | 97.7 | 1.9 | 99.6 | 91.3 | 84.7 | 90.5 | 97.5 | 1.1 |
| 13.0 | 97.7 | 1.8 | 99.5 | 91.2 | 84.7 | 90.5 | 97.5 | 1.1 |
| 13.5 | 97.7 | 1.8 | 99.5 | 91.3 | 84.6 | 90.4 | 97.4 | 1.1 |
| 14.0 | 97.8 | 1.9 | 99.7 | 91.2 | 84.8 | 90.5 | 97.5 | 1.1 |
| 14.5 | 97.8 | 1.9 | 99.7 | 91.2 | 84.7 | 90.4 | 97.4 | 1.1 |
| 15.0 | 97.9 | 1.9 | 99.8 | 91.2 | 84.7 | 90.5 | 97.5 | 1.1 |
| 15.5 | 97.8 | 1.9 | 99.7 | 91.2 | 84.8 | 90.5 | 97.5 | 1.1 |
| 16.0 | 97.8 | 1.8 | 99.6 | 91.1 | 84.7 | 90.4 | 97.4 | 1.1 |
| 16.5 | 97.8 | 1.9 | 99.7 | 91.2 | 84.7 | 90.4 | 97.4 | 1.1 |
| 17.0 | 96.7 | 1.9 | 98.6 | 90.3 | 83.7 | 89.5 | 96.5 | 1.1 |
| 17.5 | 94.9 | 1.7 | 96.6 | 88.5 | 82.0 | 87.8 | 94.8 | 1.1 |
| 18.0 | 92.6 | 1.6 | 94.2 | 86.3 | 79.8 | 85.6 | 92.6 | 1.1 |
| 18.5 | 89.9 | 1.5 | 91.4 | 84.1 | 77.6 | 83.3 | 90.3 | 0.9 |
| 19.0 | 87.2 | 1.7 | 88.9 | 81.9 | 75.4 | 81.0 | 88.0 | 1.1 |

MAXIMUM VALUES IN BANDS, PNLC = 98.0

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 79.7 | 79.2 | 79.7 | 83.5 | 77.2 | 76.5 | 83.4 | 76.2 | 84.4 | 72.4 |
| 80.3 | 76.4 | 72.5 | 71.2 | 72.7 | 73.0 | 73.4 | 71.6 | 67.9 | 63.5 |
| 59.7 | 57.7 | 55.2 | 51.3 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 79.7 | 79.1 | 79.3 | 82.7 | 77.0 | 76.0 | 83.1 | 76.2 | 84.3 | 72.1 |
| 80.3 | 76.2 | 72.2 | 70.7 | 72.3 | 72.4 | 73.2 | 71.4 | 67.4 | 62.9 |
| 58.7 | 56.9 | 54.4 | 50.1 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 0.0 | 3.3 | | | | | | |
| PNL | 15.0 | 97.9 | 14.5 | 108.4 | 15.0 | 108.4 | 97.8 | 94.9 |
| PNLT | 10.5 | 99.8 | 14.5 | 110.3 | 15.0 | 110.3 | 99.7 | 96.8 |
| A-LEV | 14.0 | 84.8 | 14.5 | 95.4 | 15.0 | 95.4 | 84.7 | 81.8 |

N-LEV 12.5 97.5 14.5 108.1 15.0 108.1 97.4 94.5

EPNL =100.3

MAN ACOUSTICS, EVENT #4

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 13.9 | 11.8 | 19.2 | 26.2 | 0.1 |
| 0.5 | 0.0 | 0.0 | 0.0 | 13.9 | 11.8 | 19.2 | 26.2 | 0.1 |
| 1.0 | 0.0 | 0.0 | 0.0 | 13.9 | 11.8 | 19.2 | 26.2 | 0.1 |
| 1.5 | 0.0 | 0.0 | 0.0 | 13.9 | 11.8 | 19.2 | 26.2 | 0.1 |
| 2.0 | 0.0 | 0.0 | 0.0 | 13.9 | 11.8 | 19.2 | 26.2 | 0.1 |
| 2.5 | 0.0 | 0.0 | 0.0 | 13.9 | 11.8 | 19.2 | 26.2 | 0.1 |
| 3.0 | 0.0 | 0.0 | 0.0 | 13.9 | 11.8 | 19.2 | 26.2 | 0.1 |
| 3.5 | 20.4 | 3.3 | 23.7 | 50.0 | 24.2 | 39.5 | 46.5 | 0.2 |
| 4.0 | 22.4 | 3.3 | 25.7 | 50.9 | 25.0 | 40.4 | 47.4 | 0.2 |
| 4.5 | 55.2 | 0.0 | 55.2 | 61.3 | 48.1 | 55.5 | 62.5 | 0.1 |
| 5.0 | 86.5 | 6.4 | 92.9 | 79.4 | 75.4 | 80.8 | 87.8 | 1.6 |
| 5.5 | 86.3 | 1.0 | 87.3 | 83.8 | 73.2 | 79.6 | 86.6 | 1.1 |
| 6.0 | 89.8 | 1.0 | 90.8 | 86.6 | 76.2 | 82.7 | 89.7 | 1.1 |
| 6.5 | 91.7 | 0.7 | 92.4 | 88.2 | 77.7 | 84.4 | 91.4 | 0.9 |
| 7.0 | 92.6 | 0.6 | 93.2 | 88.8 | 78.6 | 85.2 | 92.2 | 0.9 |
| 7.5 | 93.0 | 0.6 | 93.6 | 89.2 | 79.1 | 85.7 | 92.7 | 0.9 |
| 8.0 | 93.3 | 0.0 | 93.3 | 89.4 | 79.3 | 85.9 | 92.9 | 0.1 |
| 8.5 | 93.5 | 0.5 | 94.0 | 89.5 | 79.5 | 86.1 | 93.1 | 0.9 |
| 9.0 | 93.6 | 0.0 | 93.6 | 89.5 | 79.6 | 86.2 | 93.2 | 0.1 |
| 9.5 | 93.7 | 0.5 | 94.2 | 89.5 | 79.7 | 86.3 | 93.3 | 0.9 |
| 10.0 | 93.6 | 0.5 | 94.1 | 89.5 | 79.6 | 86.2 | 93.2 | 0.9 |
| 10.5 | 93.6 | 0.5 | 94.1 | 89.5 | 79.5 | 86.2 | 93.2 | 0.9 |
| 11.0 | 93.6 | 0.0 | 93.6 | 89.6 | 79.5 | 86.2 | 93.2 | 0.1 |
| 11.5 | 93.6 | 0.5 | 94.1 | 89.7 | 79.5 | 86.2 | 93.2 | 0.9 |
| 12.0 | 93.6 | 0.5 | 94.1 | 89.7 | 79.5 | 86.2 | 93.2 | 0.9 |
| 12.5 | 93.6 | 0.6 | 94.2 | 89.7 | 79.5 | 86.2 | 93.2 | 0.9 |
| 13.0 | 93.7 | 0.0 | 93.7 | 89.7 | 79.6 | 86.3 | 93.3 | 0.1 |
| 13.5 | 93.8 | 0.5 | 94.3 | 89.7 | 79.6 | 86.3 | 93.3 | 0.9 |
| 14.0 | 93.8 | 0.5 | 94.3 | 89.6 | 79.7 | 86.3 | 93.3 | 0.9 |
| 14.5 | 93.9 | 0.6 | 94.5 | 89.6 | 79.7 | 86.3 | 93.3 | 0.9 |
| 15.0 | 93.6 | 0.5 | 94.1 | 89.6 | 79.5 | 86.1 | 93.1 | 0.9 |
| 15.5 | 93.5 | 0.5 | 94.0 | 89.6 | 79.5 | 86.1 | 93.1 | 0.9 |
| 16.0 | 93.5 | 0.0 | 93.5 | 89.6 | 79.4 | 86.1 | 93.1 | 0.1 |
| 16.5 | 93.2 | 0.0 | 93.2 | 89.5 | 79.2 | 85.9 | 92.9 | 0.1 |
| 17.0 | 92.3 | 0.0 | 92.3 | 88.6 | 78.4 | 85.0 | 92.0 | 0.1 |
| 17.5 | 90.4 | 0.0 | 90.4 | 86.8 | 76.6 | 83.3 | 90.3 | 0.1 |
| 18.0 | 88.1 | 0.0 | 88.1 | 84.5 | 74.4 | 81.0 | 88.0 | 0.1 |
| 18.5 | 85.5 | 0.0 | 85.5 | 82.3 | 72.1 | 78.7 | 85.7 | 0.1 |
| 19.0 | 81.9 | 0.0 | 81.9 | 80.0 | 69.8 | 76.2 | 83.2 | 0.1 |
| 19.5 | 79.5 | 0.0 | 79.5 | 77.7 | 67.5 | 73.9 | 80.9 | 0.1 |

MAXIMUM VALUES IN BANDS, PNLC = 95.2

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 81.3 | 80.9 | 81.5 | 81.9 | 79.2 | 78.7 | 78.7 | 76.3 | 77.6 | 72.4 |
| 73.2 | 69.4 | 67.7 | 68.0 | 68.0 | 73.7 | 67.2 | 66.1 | 63.5 | 61.4 |
| 59.8 | 58.5 | 56.2 | 51.4 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 81.2 | 80.7 | 81.2 | 81.3 | 79.0 | 78.2 | 78.3 | 76.2 | 77.6 | 72.3 |
| 73.1 | 69.3 | 67.7 | 67.6 | 67.0 | 66.9 | 67.2 | 65.7 | 63.2 | 61.4 |
| 59.8 | 58.5 | 56.2 | 51.4 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 5.0 | 6.4 | | | | | | |
| PNL | 14.5 | 93.9 | 14.5 | 104.2 | 15.0 | 104.2 | 93.8 | 90.9 |
| PNLT | 14.5 | 94.5 | 14.5 | 104.6 | 15.0 | 104.7 | 94.4 | 91.5 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| A-LEV | 9.5 | 79.7 | 15.0 | 90.2 | 15.0 | 90.2 | 79.7 | 76.7 |
| N-LEV | 9.5 | 93.3 | 14.5 | 103.8 | 15.0 | 103.8 | 93.2 | 90.3 |

EPNL = 94.6

MAN ACOUSTICS. EVNT #5

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.8 | 3.3 | 24.1 | 50.2 | 24.4 | 39.7 | 46.7 | 0.2 |
| 0.5 | 22.8 | 3.3 | 26.1 | 51.1 | 25.2 | 40.6 | 47.6 | 0.2 |
| 1.0 | 24.6 | 3.3 | 27.9 | 52.0 | 26.1 | 41.5 | 48.5 | 0.2 |
| 1.5 | 49.0 | 3.3 | 52.3 | 54.6 | 43.9 | 49.9 | 56.9 | 0.2 |
| 2.0 | 71.5 | 1.7 | 73.2 | 69.0 | 62.3 | 67.3 | 74.3 | 0.9 |
| 2.5 | 82.8 | 2.5 | 85.3 | 77.9 | 71.7 | 77.0 | 84.0 | 1.1 |
| 3.0 | 88.7 | 2.4 | 91.1 | 83.5 | 76.9 | 82.4 | 89.4 | 1.1 |
| 3.5 | 92.3 | 2.4 | 94.7 | 86.6 | 80.2 | 85.6 | 92.6 | 1.1 |
| 4.0 | 94.9 | 2.4 | 97.3 | 88.9 | 82.5 | 88.0 | 95.0 | 1.1 |
| 4.5 | 96.3 | 2.3 | 98.6 | 90.0 | 83.7 | 89.3 | 96.3 | 1.1 |
| 5.0 | 96.9 | 2.3 | 99.2 | 90.5 | 84.2 | 89.8 | 96.8 | 1.1 |
| 5.5 | 97.2 | 2.2 | 99.4 | 90.9 | 84.4 | 90.1 | 97.1 | 1.1 |
| 6.0 | 97.3 | 2.1 | 99.4 | 90.9 | 84.6 | 90.3 | 97.3 | 1.1 |
| 6.5 | 97.3 | 2.2 | 99.5 | 90.9 | 84.6 | 90.3 | 97.3 | 1.1 |
| 7.0 | 97.4 | 2.1 | 99.5 | 91.0 | 84.6 | 90.3 | 97.3 | 1.1 |
| 7.5 | 97.5 | 2.2 | 99.7 | 91.2 | 84.7 | 90.4 | 97.4 | 1.1 |
| 8.0 | 97.6 | 2.2 | 99.8 | 91.0 | 84.8 | 90.4 | 97.4 | 1.1 |
| 8.5 | 97.6 | 2.1 | 99.7 | 91.1 | 84.8 | 90.4 | 97.4 | 1.1 |
| 9.0 | 97.7 | 2.2 | 99.9 | 91.1 | 84.9 | 90.5 | 97.5 | 1.1 |
| 9.5 | 97.5 | 2.2 | 99.7 | 91.1 | 84.8 | 90.4 | 97.4 | 1.1 |
| 10.0 | 97.5 | 2.1 | 99.6 | 90.9 | 84.7 | 90.4 | 97.4 | 1.1 |
| 10.5 | 97.5 | 2.1 | 99.6 | 91.1 | 84.7 | 90.3 | 97.3 | 1.1 |
| 11.0 | 97.4 | 2.1 | 99.5 | 90.9 | 84.6 | 90.3 | 97.3 | 1.1 |
| 11.5 | 97.4 | 2.2 | 99.6 | 91.1 | 84.7 | 90.3 | 97.3 | 1.1 |
| 12.0 | 97.5 | 2.2 | 99.7 | 90.9 | 84.7 | 90.4 | 97.4 | 1.1 |
| 12.5 | 97.5 | 2.2 | 99.7 | 90.9 | 84.7 | 90.4 | 97.4 | 1.1 |
| 13.0 | 97.5 | 2.2 | 99.7 | 90.9 | 84.8 | 90.5 | 97.5 | 1.1 |
| 13.5 | 97.6 | 2.2 | 99.8 | 90.9 | 84.8 | 90.5 | 97.5 | 1.1 |
| 14.0 | 97.6 | 2.3 | 99.9 | 91.0 | 84.8 | 90.5 | 97.5 | 1.1 |
| 14.5 | 97.2 | 2.1 | 99.3 | 90.7 | 84.4 | 90.1 | 97.1 | 1.1 |
| 15.0 | 95.6 | 2.0 | 97.6 | 89.2 | 82.9 | 88.6 | 95.6 | 1.1 |
| 15.5 | 93.3 | 1.9 | 95.2 | 87.1 | 80.8 | 86.5 | 93.5 | 1.1 |
| 16.0 | 90.8 | 1.8 | 92.6 | 84.9 | 78.6 | 84.2 | 91.2 | 0.9 |
| 16.5 | 88.2 | 1.8 | 90.0 | 82.6 | 76.4 | 82.0 | 89.0 | 0.9 |
| 17.0 | 85.5 | 1.9 | 87.4 | 80.4 | 74.1 | 79.7 | 86.7 | 1.1 |

MAXIMUM VALUES IN BANDS, PNLC = 98.0

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 79.7 | 78.2 | 79.3 | 83.1 | 76.4 | 75.9 | 83.5 | 75.5 | 84.7 | 71.3 |
| 80.5 | 76.6 | 72.6 | 71.1 | 72.7 | 73.0 | 73.6 | 72.0 | 67.5 | 63.2 |
| 58.6 | 56.6 | 54.0 | 50.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 79.4 | 77.5 | 78.8 | 82.1 | 76.3 | 75.5 | 83.4 | 75.5 | 84.6 | 70.9 |
| 80.3 | 76.3 | 72.5 | 71.0 | 72.7 | 72.7 | 73.3 | 71.9 | 66.8 | 62.7 |
| 58.6 | 56.3 | 53.6 | 0.1 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 0.0 | 3.3 | | | | | | |
| PNL | 9.0 | 97.7 | 14.5 | 108.1 | 15.0 | 108.1 | 97.6 | 94.7 |
| PNLT | 9.0 | 99.9 | 14.5 | 110.3 | 15.0 | 110.3 | 99.8 | 96.9 |
| A-LEV | 9.0 | 84.9 | 14.5 | 95.4 | 15.0 | 95.4 | 84.8 | 81.9 |
| N-LEV | 9.0 | 97.5 | 14.5 | 108.0 | 15.0 | 108.0 | 97.4 | 94.5 |

EPNL =100.3

MAN ACOUSTICS, EVENT #6

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 22.0 | 3.3 | 25.3 | 50.7 | 24.8 | 40.2 | 47.2 | 0.2 |
| 0.5 | 0.0 | 0.0 | 0.0 | 13.9 | 11.8 | 19.2 | 26.2 | 0.1 |
| 1.0 | 20.6 | 3.3 | 23.9 | 50.1 | 24.3 | 39.6 | 46.6 | 0.2 |
| 1.5 | 44.9 | 3.3 | 48.2 | 53.5 | 39.4 | 47.6 | 54.6 | 0.2 |
| 2.0 | 75.2 | 1.3 | 76.5 | 71.8 | 64.6 | 70.1 | 77.1 | 0.9 |
| 2.5 | 85.8 | 1.6 | 87.4 | 81.2 | 73.5 | 79.3 | 86.3 | 1.1 |
| 3.0 | 90.7 | 1.9 | 92.6 | 85.5 | 77.9 | 83.7 | 90.7 | 1.1 |
| 3.5 | 93.9 | 1.9 | 95.8 | 88.4 | 80.7 | 86.5 | 93.5 | 1.1 |
| 4.0 | 96.2 | 1.9 | 98.1 | 90.5 | 82.9 | 88.7 | 95.7 | 1.1 |
| 4.5 | 97.3 | 1.8 | 99.1 | 91.5 | 83.8 | 89.7 | 96.7 | 1.1 |
| 5.0 | 97.7 | 1.7 | 99.4 | 91.7 | 84.2 | 90.1 | 97.1 | 1.1 |
| 5.5 | 97.9 | 1.8 | 99.7 | 92.0 | 84.4 | 90.4 | 97.4 | 1.1 |
| 6.0 | 98.1 | 1.8 | 99.9 | 92.0 | 84.7 | 90.6 | 97.6 | 1.1 |
| 6.5 | 98.2 | 1.8 | 100.0 | 92.2 | 84.7 | 90.7 | 97.7 | 1.1 |
| 7.0 | 98.3 | 1.6 | 99.9 | 92.2 | 84.8 | 90.8 | 97.8 | 1.1 |
| 7.5 | 98.2 | 1.6 | 99.8 | 92.2 | 84.7 | 90.8 | 97.8 | 1.1 |
| 8.0 | 98.3 | 1.7 | 100.0 | 92.2 | 84.9 | 90.8 | 97.8 | 1.1 |
| 8.5 | 98.3 | 1.8 | 100.1 | 92.2 | 84.9 | 90.9 | 97.9 | 1.1 |
| 9.0 | 98.3 | 1.9 | 100.2 | 92.2 | 84.9 | 90.9 | 97.9 | 1.1 |
| 9.5 | 98.4 | 1.9 | 100.3 | 92.2 | 84.9 | 90.9 | 97.9 | 1.1 |
| 10.0 | 98.2 | 2.0 | 100.2 | 92.1 | 84.8 | 90.8 | 97.8 | 1.1 |
| 10.5 | 98.3 | 2.0 | 100.3 | 92.2 | 84.8 | 90.8 | 97.8 | 1.1 |
| 11.0 | 98.3 | 1.9 | 100.2 | 92.2 | 84.8 | 90.8 | 97.8 | 1.1 |
| 11.5 | 98.4 | 1.9 | 100.3 | 92.3 | 84.8 | 90.8 | 97.8 | 1.1 |
| 12.0 | 98.4 | 2.0 | 100.4 | 92.3 | 84.9 | 90.8 | 97.8 | 1.1 |
| 12.5 | 98.4 | 2.0 | 100.4 | 92.2 | 84.8 | 90.8 | 97.8 | 1.1 |
| 13.0 | 98.3 | 1.9 | 100.2 | 92.2 | 84.8 | 90.8 | 97.8 | 1.1 |
| 13.5 | 98.3 | 1.8 | 100.1 | 92.3 | 84.9 | 90.8 | 97.8 | 1.1 |
| 14.0 | 98.3 | 1.6 | 99.9 | 92.2 | 84.8 | 90.8 | 97.8 | 1.1 |
| 14.5 | 98.3 | 1.4 | 99.7 | 92.2 | 84.7 | 90.7 | 97.7 | 0.9 |
| 15.0 | 97.3 | 1.3 | 98.6 | 91.3 | 83.7 | 89.8 | 96.8 | 0.9 |
| 15.5 | 95.2 | 1.3 | 96.5 | 89.3 | 81.7 | 87.8 | 94.8 | 0.9 |
| 16.0 | 92.8 | 1.3 | 94.1 | 87.0 | 79.5 | 85.6 | 92.6 | 0.9 |
| 16.5 | 90.4 | 1.3 | 91.7 | 84.8 | 77.3 | 83.3 | 90.3 | 0.9 |
| 17.0 | 87.9 | 1.3 | 89.2 | 82.5 | 75.1 | 81.0 | 88.0 | 0.9 |
| 17.5 | 84.9 | 1.4 | 86.3 | 80.3 | 72.8 | 78.7 | 85.7 | 0.9 |

MAXIMUM VALUES IN BANDS, PNLC = 98.6

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 83.7 | 79.2 | 82.6 | 84.7 | 78.4 | 78.6 | 83.4 | 76.8 | 83.9 | 73.8 |
| 80.6 | 76.2 | 73.0 | 71.5 | 72.7 | 73.3 | 73.4 | 72.0 | 68.6 | 65.5 |
| 63.0 | 61.6 | 58.8 | 54.4 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 83.7 | 79.2 | 82.6 | 84.5 | 78.1 | 78.3 | 82.8 | 76.7 | 83.9 | 73.4 |
| 80.6 | 76.0 | 72.7 | 71.1 | 72.5 | 72.7 | 72.7 | 71.7 | 68.5 | 65.4 |
| 63.0 | 61.6 | 58.7 | 54.3 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 0.0 | 3.3 | | | | | | |
| PNL | 9.5 | 98.4 | 14.5 | 109.0 | 15.5 | 109.0 | 98.3 | 95.5 |
| PNLT | 12.0 | 100.4 | 14.5 | 110.8 | 15.5 | 110.8 | 100.3 | 97.5 |
| A-LEV | 8.0 | 84.9 | 15.0 | 95.6 | 15.5 | 95.6 | 84.9 | 82.0 |
| N-LEV | 8.5 | 97.9 | 15.0 | 108.5 | 15.5 | 108.5 | 97.9 | 95.0 |

EPNL =100.8

MAN ACOUSTICS, EVENT #7

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 13.9 | 11.8 | 19.2 | 26.2 | 0.1 |
| 0.5 | 0.0 | 0.0 | 0.0 | 13.9 | 11.8 | 19.2 | 26.2 | 0.1 |
| 1.0 | 0.0 | 0.0 | 0.0 | 13.9 | 11.8 | 19.2 | 26.2 | 0.1 |
| 1.5 | 0.0 | 0.0 | 0.0 | 13.9 | 11.8 | 19.2 | 26.2 | 0.1 |
| 2.0 | 77.1 | 2.5 | 79.6 | 72.4 | 67.1 | 72.1 | 79.1 | 1.1 |
| 2.5 | 87.3 | 2.5 | 89.8 | 81.6 | 75.8 | 81.2 | 88.2 | 1.1 |
| 3.0 | 92.6 | 2.6 | 95.2 | 86.5 | 80.7 | 86.1 | 93.1 | 1.1 |
| 3.5 | 95.4 | 2.5 | 97.9 | 89.0 | 83.4 | 88.7 | 95.7 | 1.1 |
| 4.0 | 96.8 | 2.5 | 99.3 | 90.1 | 84.4 | 89.8 | 96.8 | 1.1 |
| 4.5 | 97.2 | 2.5 | 99.7 | 90.4 | 84.8 | 90.3 | 97.3 | 1.1 |
| 5.0 | 97.2 | 2.5 | 99.7 | 90.6 | 84.9 | 90.5 | 97.5 | 1.1 |
| 5.5 | 97.5 | 2.4 | 99.9 | 90.7 | 85.1 | 90.6 | 97.6 | 1.1 |
| 6.0 | 97.7 | 2.4 | 100.1 | 90.9 | 85.3 | 90.8 | 97.8 | 1.1 |
| 6.5 | 97.7 | 2.5 | 100.2 | 90.7 | 85.3 | 90.9 | 97.9 | 1.1 |
| 7.0 | 97.7 | 2.3 | 100.0 | 90.7 | 85.3 | 90.9 | 97.9 | 1.1 |
| 7.5 | 97.6 | 2.4 | 100.0 | 90.8 | 85.3 | 90.8 | 97.8 | 1.1 |
| 8.0 | 97.7 | 2.4 | 100.1 | 90.8 | 85.4 | 90.9 | 97.9 | 1.1 |
| 8.5 | 97.7 | 2.5 | 100.2 | 90.8 | 85.4 | 91.0 | 98.0 | 1.1 |
| 9.0 | 97.6 | 2.5 | 100.1 | 90.7 | 85.4 | 91.0 | 98.0 | 1.1 |
| 9.5 | 97.3 | 2.5 | 100.3 | 91.0 | 85.4 | 90.9 | 97.9 | 1.1 |
| 10.0 | 97.7 | 2.5 | 100.2 | 90.9 | 85.3 | 90.8 | 97.8 | 1.1 |
| 10.5 | 97.5 | 2.4 | 99.9 | 90.9 | 85.2 | 90.7 | 97.7 | 1.1 |
| 11.0 | 97.7 | 2.4 | 100.1 | 90.8 | 85.4 | 90.9 | 97.9 | 1.1 |
| 11.5 | 97.8 | 2.5 | 100.3 | 91.0 | 85.4 | 91.0 | 98.0 | 1.1 |
| 12.0 | 97.8 | 2.5 | 100.3 | 90.9 | 85.4 | 90.9 | 97.9 | 1.1 |
| 12.5 | 97.6 | 2.6 | 100.2 | 90.8 | 85.2 | 90.8 | 97.8 | 1.1 |
| 13.0 | 97.5 | 2.4 | 99.9 | 90.7 | 85.3 | 90.8 | 97.8 | 1.1 |
| 13.5 | 97.8 | 2.4 | 100.2 | 90.8 | 85.4 | 90.9 | 97.9 | 1.1 |
| 14.0 | 96.7 | 2.2 | 98.9 | 89.8 | 84.4 | 89.9 | 96.9 | 1.1 |
| 14.5 | 94.7 | 2.2 | 96.9 | 87.7 | 82.4 | 88.0 | 95.0 | 1.1 |
| 15.0 | 92.2 | 2.2 | 94.4 | 85.5 | 80.2 | 85.8 | 92.8 | 1.1 |
| 15.5 | 89.7 | 2.1 | 91.8 | 83.3 | 78.0 | 83.5 | 90.5 | 1.1 |
| 16.0 | 87.1 | 2.2 | 89.3 | 81.1 | 75.8 | 81.2 | 88.2 | 1.1 |

MAXIMUM VALUES IN BANDS. PNLC = 98.0

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 77.3 | 76.7 | 77.0 | 82.9 | 74.5 | 73.3 | 83.6 | 74.1 | 85.0 | 70.2 |
| 81.0 | 77.1 | 74.4 | 72.2 | 73.7 | 74.2 | 74.4 | 72.7 | 68.6 | 63.9 |
| 59.1 | 56.6 | 53.0 | 0.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 77.3 | 76.6 | 76.8 | 82.6 | 74.3 | 73.2 | 83.5 | 73.7 | 84.9 | 69.9 |
| 81.0 | 76.9 | 74.1 | 71.7 | 73.1 | 73.7 | 73.8 | 72.2 | 68.2 | 63.5 |
| 58.6 | 56.2 | 52.4 | 0.1 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 3.0 | 2.6 | | | | | | |
| PNL | 9.5 | 97.8 | 13.5 | 108.2 | 14.0 | 108.2 | 97.3 | 94.5 |
| PNLT | 9.5 | 100.3 | 13.5 | 110.6 | 14.0 | 110.6 | 99.8 | 97.0 |
| A-LEV | 3.0 | 85.4 | 14.0 | 95.8 | 14.5 | 95.8 | 85.1 | 82.2 |
| N-LEV | 8.5 | 98.0 | 14.0 | 108.4 | 14.5 | 108.4 | 97.7 | 94.8 |

EPNL =100.6

MAN ACOUSTICS, EVENT #8

| T | PNL | P.T. | PNLT | QA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 71.0 | 1.4 | 72.4 | 69.2 | 59.0 | 64.8 | 71.8 | 1.5 |
| 0.5 | 75.3 | 0.9 | 76.2 | 73.6 | 62.6 | 68.7 | 75.7 | 0.2 |
| 1.0 | 77.8 | 0.7 | 78.5 | 75.8 | 66.1 | 71.4 | 78.4 | 0.2 |
| 1.5 | 80.8 | 0.6 | 81.4 | 78.6 | 69.1 | 74.3 | 81.3 | 0.2 |
| 2.0 | 83.6 | 1.7 | 85.3 | 81.8 | 71.3 | 76.9 | 83.9 | 1.5 |
| 2.5 | 86.1 | 1.3 | 87.4 | 85.3 | 73.1 | 79.5 | 86.5 | 1.5 |
| 3.0 | 87.6 | 1.1 | 88.7 | 87.0 | 74.7 | 81.0 | 88.0 | 1.5 |
| 3.5 | 89.0 | 0.9 | 89.9 | 88.4 | 77.0 | 82.6 | 89.6 | 0.2 |
| 4.0 | 89.6 | 0.8 | 90.4 | 88.6 | 77.9 | 83.1 | 90.1 | 0.2 |
| 4.5 | 89.6 | 0.9 | 90.5 | 88.9 | 77.4 | 83.0 | 90.0 | 0.2 |
| 5.0 | 89.5 | 0.7 | 90.2 | 88.9 | 77.1 | 82.9 | 89.9 | 0.2 |
| 5.5 | 89.7 | 0.9 | 90.6 | 89.0 | 77.3 | 83.0 | 90.0 | 0.2 |
| 6.0 | 89.4 | 0.8 | 90.2 | 89.1 | 76.6 | 82.8 | 89.8 | 0.2 |
| 6.5 | 89.2 | 0.7 | 89.9 | 89.1 | 76.1 | 82.7 | 89.7 | 0.2 |
| 7.0 | 89.3 | 0.6 | 89.9 | 89.0 | 75.8 | 82.6 | 89.6 | 0.2 |
| 7.5 | 89.3 | 0.6 | 89.9 | 89.0 | 76.6 | 82.8 | 89.8 | 0.2 |
| 8.0 | 90.1 | 1.5 | 91.6 | 88.7 | 78.6 | 83.5 | 90.5 | 1.3 |
| 8.5 | 91.1 | 1.6 | 92.7 | 88.5 | 79.9 | 84.3 | 91.3 | 1.5 |
| 9.0 | 91.0 | 1.4 | 92.4 | 88.9 | 80.0 | 84.4 | 91.4 | 1.3 |
| 9.5 | 90.5 | 1.3 | 91.8 | 89.0 | 79.3 | 83.9 | 90.9 | 1.3 |
| 10.0 | 91.0 | 1.1 | 92.1 | 89.6 | 79.7 | 84.5 | 91.5 | 1.1 |
| 10.5 | 92.1 | 1.1 | 93.2 | 89.6 | 81.0 | 85.5 | 92.5 | 1.5 |
| 11.0 | 92.9 | 1.4 | 94.3 | 89.3 | 81.8 | 86.2 | 93.2 | 1.1 |
| 11.5 | 94.2 | 1.3 | 95.5 | 89.3 | 82.8 | 87.1 | 94.1 | 1.1 |
| 12.0 | 94.4 | 1.2 | 95.6 | 89.1 | 82.8 | 87.2 | 94.2 | 1.9 |
| 12.5 | 94.2 | 1.2 | 95.4 | 89.2 | 82.5 | 87.0 | 94.0 | 1.9 |
| 13.0 | 93.9 | 1.1 | 95.0 | 88.6 | 82.6 | 87.0 | 94.0 | 1.9 |
| 13.5 | 94.9 | 1.1 | 96.0 | 88.7 | 84.0 | 88.1 | 95.1 | 1.9 |
| 14.0 | 95.3 | 1.1 | 96.4 | 88.6 | 84.8 | 88.6 | 95.6 | 1.9 |
| 14.5 | 95.7 | 1.2 | 96.9 | 88.7 | 85.6 | 89.3 | 96.3 | 1.3 |
| 15.0 | 95.7 | 1.2 | 96.9 | 89.4 | 85.5 | 89.3 | 96.3 | 1.9 |
| 15.5 | 96.7 | 1.2 | 97.9 | 90.1 | 86.3 | 90.2 | 97.2 | 1.9 |
| 16.0 | 96.9 | 1.4 | 98.3 | 90.3 | 86.0 | 90.2 | 97.2 | 1.9 |
| 16.5 | 96.8 | 2.0 | 98.8 | 90.4 | 86.7 | 90.6 | 97.6 | 1.2 |
| 17.0 | 97.7 | 1.4 | 99.1 | 90.4 | 87.1 | 91.3 | 98.3 | 1.2 |
| 17.5 | 98.1 | 1.3 | 99.4 | 90.4 | 87.5 | 91.7 | 98.7 | 1.9 |
| 18.0 | 98.2 | 1.5 | 99.7 | 90.6 | 87.9 | 92.1 | 99.1 | 1.9 |
| 18.5 | 98.1 | 1.4 | 99.5 | 90.8 | 87.9 | 92.1 | 99.1 | 1.9 |
| 19.0 | 98.6 | 1.1 | 99.7 | 91.3 | 88.6 | 92.6 | 99.6 | 1.9 |
| 19.5 | 99.2 | 1.0 | 100.2 | 91.7 | 89.4 | 93.3 | 100.3 | 1.9 |
| 20.0 | 98.9 | 0.8 | 99.7 | 91.3 | 89.0 | 92.9 | 99.9 | 0.8 |
| 20.5 | 99.0 | 0.7 | 99.7 | 91.3 | 89.1 | 93.0 | 100.0 | 0.7 |
| 21.0 | 99.0 | 0.8 | 99.8 | 91.2 | 88.7 | 92.9 | 99.9 | 0.7 |
| 21.5 | 99.7 | 1.3 | 101.0 | 91.7 | 89.0 | 93.5 | 100.5 | 1.2 |
| 22.0 | 100.0 | 0.0 | 100.0 | 92.1 | 89.1 | 93.8 | 100.8 | 0.1 |
| 22.5 | 100.1 | 0.5 | 100.6 | 92.1 | 89.2 | 94.0 | 101.0 | 0.6 |
| 23.0 | 100.9 | 1.5 | 102.4 | 92.3 | 89.4 | 94.4 | 101.4 | 1.8 |
| 23.5 | 100.8 | 0.8 | 101.6 | 92.6 | 89.4 | 94.5 | 101.5 | 0.6 |
| 24.0 | 100.1 | 0.5 | 100.6 | 92.4 | 88.7 | 93.8 | 100.8 | 0.9 |
| 24.5 | 99.9 | 0.6 | 100.5 | 92.2 | 88.7 | 93.7 | 100.7 | 0.2 |
| 25.0 | 99.6 | 0.7 | 100.3 | 92.3 | 88.5 | 93.4 | 100.4 | 0.9 |
| 25.5 | 99.8 | 1.4 | 101.2 | 92.6 | 88.5 | 93.4 | 100.4 | 1.2 |
| 26.0 | 100.9 | 2.0 | 102.9 | 92.9 | 88.7 | 94.1 | 101.1 | 1.8 |
| 26.5 | 102.0 | 2.7 | 104.7 | 92.7 | 88.8 | 95.0 | 102.0 | 1.8 |
| 27.0 | 102.2 | 2.7 | 104.9 | 92.3 | 88.8 | 95.3 | 102.3 | 1.8 |
| 27.5 | 102.2 | 2.4 | 104.6 | 92.3 | 88.8 | 95.3 | 102.3 | 1.8 |
| 28.0 | 102.2 | 2.3 | 104.5 | 92.3 | 88.9 | 95.4 | 102.4 | 1.8 |
| 28.5 | 102.4 | 2.3 | 104.7 | 92.7 | 89.0 | 95.5 | 102.5 | 1.8 |
| 29.0 | 102.1 | 2.0 | 104.1 | 92.7 | 88.9 | 95.5 | 102.5 | 1.8 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 101.3 | 1.5 | 102.8 | 92.8 | 88.2 | 94.7 | 101.7 | 1.8 |
| 30.0 | 101.1 | 1.2 | 102.4 | 93.4 | 88.3 | 94.6 | 101.6 | 1.8 |
| 30.5 | 101.8 | 1.8 | 103.6 | 93.4 | 88.6 | 94.9 | 101.9 | 1.7 |
| 31.0 | 101.8 | 2.0 | 103.8 | 93.4 | 88.5 | 94.8 | 101.8 | 1.7 |
| 31.5 | 101.4 | 2.0 | 103.4 | 93.4 | 88.2 | 94.4 | 101.4 | 1.7 |
| 32.0 | 101.0 | 2.0 | 103.0 | 93.3 | 87.7 | 94.0 | 101.0 | 1.7 |
| 32.5 | 100.8 | 2.1 | 102.9 | 93.4 | 87.5 | 93.7 | 100.7 | 1.7 |
| 33.0 | 100.4 | 2.2 | 102.6 | 92.8 | 87.1 | 93.3 | 100.3 | 1.7 |
| 33.5 | 100.1 | 2.3 | 102.4 | 92.9 | 86.7 | 93.0 | 100.0 | 1.7 |
| 34.0 | 99.9 | 2.3 | 102.2 | 93.0 | 86.7 | 92.9 | 99.9 | 1.7 |
| 34.5 | 100.0 | 2.7 | 102.7 | 92.7 | 86.6 | 93.0 | 100.0 | 1.7 |
| 35.0 | 98.9 | 2.7 | 101.6 | 92.4 | 85.4 | 91.9 | 98.9 | 1.7 |
| 35.5 | 98.2 | 2.4 | 100.6 | 92.0 | 84.7 | 91.0 | 98.0 | 1.7 |
| 36.0 | 97.8 | 2.2 | 100.0 | 92.3 | 84.5 | 90.8 | 97.8 | 1.7 |
| 36.5 | 97.1 | 2.0 | 99.1 | 92.7 | 83.7 | 90.1 | 97.1 | 1.7 |
| 37.0 | 96.7 | 1.9 | 98.6 | 92.5 | 83.5 | 89.8 | 96.8 | 1.7 |
| 37.5 | 96.7 | 2.2 | 98.9 | 92.4 | 83.4 | 89.7 | 96.7 | 1.7 |
| 38.0 | 96.2 | 2.1 | 98.3 | 92.8 | 83.0 | 89.4 | 96.4 | 1.7 |
| 38.5 | 95.8 | 2.0 | 97.8 | 92.5 | 82.5 | 88.9 | 95.9 | 1.7 |
| 39.0 | 95.1 | 1.8 | 96.9 | 92.0 | 81.9 | 88.2 | 95.2 | 1.7 |
| 39.5 | 94.6 | 1.8 | 96.4 | 91.6 | 81.1 | 87.5 | 94.5 | 1.7 |
| 40.0 | 93.7 | 1.8 | 95.5 | 91.1 | 80.0 | 86.5 | 93.5 | 1.7 |
| 40.5 | 93.6 | 1.7 | 95.3 | 90.7 | 79.7 | 86.2 | 93.2 | 1.7 |
| 41.0 | 93.1 | 1.8 | 94.9 | 90.3 | 79.5 | 85.8 | 92.8 | 1.7 |
| 41.5 | 92.8 | 1.4 | 94.2 | 90.7 | 79.2 | 85.6 | 92.6 | 1.7 |
| 42.0 | 92.1 | 1.5 | 93.6 | 90.4 | 78.4 | 84.9 | 91.9 | 1.7 |
| 42.5 | 91.3 | 1.5 | 92.8 | 90.2 | 77.2 | 84.1 | 91.1 | 1.7 |
| 43.0 | 91.1 | 1.5 | 92.6 | 90.3 | 77.1 | 83.9 | 90.9 | 1.7 |
| 43.5 | 91.5 | 1.5 | 93.0 | 90.6 | 77.4 | 84.2 | 91.2 | 1.7 |
| 44.0 | 91.0 | 1.5 | 92.5 | 90.7 | 76.7 | 83.8 | 90.8 | 1.7 |
| 44.5 | 90.0 | 1.4 | 91.4 | 90.3 | 75.5 | 82.9 | 89.9 | 1.7 |
| 45.0 | 89.4 | 1.3 | 90.7 | 89.7 | 74.8 | 82.3 | 89.3 | 1.7 |
| 45.5 | 89.1 | 1.5 | 90.6 | 89.1 | 75.0 | 82.1 | 89.1 | 1.7 |
| 46.0 | 88.6 | 1.5 | 90.1 | 88.3 | 74.1 | 81.4 | 88.4 | 1.7 |
| 46.5 | 87.1 | 1.4 | 88.5 | 87.4 | 72.5 | 80.1 | 87.1 | 1.7 |
| 47.0 | 85.4 | 1.2 | 86.6 | 86.3 | 70.8 | 78.7 | 85.7 | 1.7 |
| 47.5 | 83.4 | 1.1 | 84.5 | 84.7 | 69.0 | 76.9 | 83.9 | 1.7 |
| 48.0 | 81.3 | 0.6 | 81.9 | 82.5 | 67.0 | 74.8 | 81.8 | 0.7 |
| 48.5 | 79.4 | 0.6 | 80.0 | 80.8 | 65.1 | 73.0 | 80.0 | 0.7 |
| 49.0 | 77.3 | 0.6 | 77.9 | 78.8 | 63.0 | 71.0 | 78.0 | 0.7 |

MAXIMUM VALUES IN BANDS, PNLC =104.4

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 86.2 | 86.2 | 82.0 | 81.3 | 85.3 | 87.4 | 85.3 | 83.2 | 84.5 | 81.1 |
| 81.5 | 82.4 | 83.7 | 82.3 | 80.7 | 80.3 | 82.5 | 82.0 | 69.9 | 62.6 |
| 56.5 | 44.7 | 42.4 | 43.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 74.2 | 72.0 | 70.5 | 75.2 | 81.0 | 85.1 | 81.1 | 80.5 | 84.2 | 77.2 |
| 78.7 | 79.8 | 77.4 | 77.0 | 77.5 | 77.2 | 78.0 | 82.0 | 69.6 | 61.3 |
| 53.4 | 44.1 | 42.2 | 43.0 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 26.5 | 2.7 | | | | | | |
| PNL | 28.5 | 102.4 | 31.5 | 114.0 | 46.5 | 114.2 | 105.6 | 104.3 |
| PNLT | 27.0 | 104.9 | 30.0 | 115.7 | 46.0 | 116.0 | 107.9 | 106.8 |
| A-LEV | 19.5 | 89.4 | 32.0 | 102.0 | 46.0 | 102.1 | 92.7 | 91.3 |
| N-LEV | 28.5 | 102.5 | 31.5 | 114.4 | 46.5 | 114.6 | 105.7 | 104.4 |

EPNL =105.7



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MAN ACOUSTICS, EVENT #9

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 52.1 | 0.8 | 52.9 | 49.5 | 44.8 | 52.3 | 59.3 | 0.2 |
| 0.5 | 52.0 | 0.8 | 52.8 | 49.5 | 44.8 | 52.3 | 59.3 | 0.2 |
| 1.0 | 52.0 | 1.0 | 53.0 | 49.7 | 44.9 | 52.4 | 59.4 | 0.2 |
| 1.5 | 53.0 | 1.0 | 54.0 | 51.1 | 45.2 | 52.7 | 59.7 | 0.2 |
| 2.0 | 53.7 | 1.7 | 55.4 | 54.4 | 45.4 | 53.1 | 60.1 | 0.2 |
| 2.5 | 61.0 | 1.8 | 62.8 | 58.8 | 51.0 | 56.3 | 63.3 | 0.2 |
| 3.0 | 65.6 | 1.6 | 67.2 | 63.9 | 56.3 | 60.9 | 67.9 | 0.2 |
| 3.5 | 70.7 | 1.7 | 72.4 | 68.5 | 60.5 | 65.3 | 72.3 | 0.2 |
| 4.0 | 71.4 | 1.6 | 73.0 | 69.7 | 61.2 | 66.0 | 73.0 | 0.2 |
| 4.5 | 72.7 | 1.5 | 74.2 | 70.2 | 62.7 | 67.0 | 74.0 | 0.2 |
| 5.0 | 73.9 | 1.6 | 75.5 | 71.7 | 63.9 | 68.2 | 75.2 | 0.2 |
| 5.5 | 75.3 | 1.5 | 76.8 | 72.7 | 65.4 | 69.5 | 76.5 | 0.2 |
| 6.0 | 76.1 | 1.4 | 77.5 | 73.2 | 66.5 | 70.3 | 77.3 | 0.2 |
| 6.5 | 77.0 | 1.5 | 78.5 | 74.3 | 67.4 | 71.3 | 78.3 | 0.2 |
| 7.0 | 80.7 | 1.3 | 82.0 | 77.1 | 71.0 | 74.8 | 81.8 | 0.2 |
| 7.5 | 84.9 | 1.2 | 86.1 | 80.4 | 74.4 | 78.5 | 85.5 | 0.2 |
| 8.0 | 88.6 | 0.8 | 89.4 | 84.1 | 77.9 | 82.2 | 89.2 | 0.2 |
| 8.5 | 90.1 | 0.0 | 90.1 | 85.8 | 80.2 | 84.1 | 91.1 | 0.1 |
| 9.0 | 90.5 | 0.0 | 90.5 | 85.9 | 80.3 | 84.2 | 91.2 | 0.1 |
| 9.5 | 91.0 | 0.7 | 91.7 | 86.2 | 80.5 | 84.5 | 91.5 | 0.2 |
| 10.0 | 91.1 | 1.0 | 92.1 | 86.3 | 80.4 | 84.4 | 91.4 | 0.2 |
| 10.5 | 91.3 | 1.0 | 92.3 | 86.5 | 80.5 | 84.7 | 91.7 | 0.2 |
| 11.0 | 91.5 | 0.9 | 92.4 | 86.5 | 80.7 | 84.9 | 91.9 | 0.2 |
| 11.5 | 91.7 | 0.8 | 92.5 | 87.0 | 81.1 | 85.3 | 92.3 | 0.2 |
| 12.0 | 91.6 | 1.0 | 92.6 | 87.1 | 80.9 | 85.1 | 92.1 | 0.2 |
| 12.5 | 91.5 | 1.1 | 92.6 | 86.4 | 81.0 | 85.0 | 92.0 | 0.2 |
| 13.0 | 91.6 | 1.2 | 92.8 | 86.3 | 81.1 | 85.2 | 92.2 | 0.2 |
| 13.5 | 91.1 | 1.1 | 92.2 | 85.9 | 80.3 | 84.6 | 91.6 | 0.2 |
| 14.0 | 90.4 | 1.2 | 91.6 | 85.7 | 79.4 | 83.8 | 90.8 | 0.2 |
| 14.5 | 91.7 | 1.1 | 92.8 | 86.2 | 81.1 | 85.2 | 92.2 | 1.8 |
| 15.0 | 92.6 | 1.0 | 93.6 | 86.8 | 82.4 | 86.3 | 93.3 | 1.8 |
| 15.5 | 92.7 | 0.6 | 93.3 | 86.9 | 82.6 | 86.5 | 93.5 | 0.2 |
| 16.0 | 92.5 | 0.5 | 93.0 | 86.8 | 82.0 | 86.1 | 93.1 | 0.2 |
| 16.5 | 92.4 | 1.2 | 93.6 | 86.7 | 81.9 | 85.9 | 92.9 | 1.3 |
| 17.0 | 92.0 | 1.0 | 93.0 | 86.7 | 81.1 | 85.4 | 92.4 | 0.2 |
| 17.5 | 92.3 | 0.8 | 93.1 | 86.7 | 81.2 | 85.6 | 92.6 | 0.2 |
| 18.0 | 93.7 | 0.7 | 94.4 | 87.1 | 83.2 | 87.3 | 94.3 | 0.2 |
| 18.5 | 93.9 | 0.9 | 94.8 | 87.4 | 83.5 | 87.6 | 94.6 | 0.2 |
| 19.0 | 93.8 | 1.0 | 94.8 | 87.1 | 83.1 | 87.4 | 94.4 | 0.2 |
| 19.5 | 94.5 | 1.2 | 95.7 | 87.1 | 83.9 | 88.3 | 95.3 | 1.2 |
| 20.0 | 94.8 | 1.4 | 96.2 | 86.9 | 83.9 | 88.6 | 95.6 | 1.2 |
| 20.5 | 94.8 | 1.1 | 95.9 | 87.0 | 83.6 | 88.4 | 95.4 | 1.2 |
| 21.0 | 95.0 | 0.5 | 95.5 | 87.0 | 83.8 | 88.4 | 95.4 | 0.2 |
| 21.5 | 96.1 | 0.8 | 96.9 | 87.9 | 85.1 | 89.6 | 96.6 | 0.8 |
| 22.0 | 96.2 | 1.1 | 97.3 | 88.6 | 85.4 | 90.0 | 97.0 | 1.1 |
| 22.5 | 96.4 | 1.1 | 97.5 | 88.5 | 85.9 | 90.3 | 97.3 | 1.1 |
| 23.0 | 96.0 | 1.4 | 97.4 | 88.4 | 85.3 | 89.7 | 96.7 | 1.1 |
| 23.5 | 97.2 | 1.2 | 98.4 | 89.9 | 86.6 | 91.1 | 98.1 | 1.1 |
| 24.0 | 98.1 | 0.7 | 98.8 | 90.2 | 87.4 | 91.9 | 98.9 | 0.2 |
| 24.5 | 98.5 | 0.6 | 99.1 | 90.3 | 87.8 | 92.3 | 99.3 | 0.2 |
| 25.0 | 98.1 | 0.7 | 98.8 | 90.4 | 87.5 | 92.0 | 99.0 | 0.8 |
| 25.5 | 98.3 | 0.8 | 99.1 | 90.8 | 87.7 | 92.2 | 99.2 | 0.7 |
| 26.0 | 98.0 | 0.9 | 98.9 | 90.3 | 87.0 | 91.8 | 98.8 | 0.7 |
| 26.5 | 98.1 | 0.9 | 99.0 | 90.0 | 87.3 | 92.0 | 99.0 | 0.6 |
| 27.0 | 98.2 | 1.1 | 99.3 | 90.3 | 87.3 | 91.9 | 98.9 | 0.6 |
| 27.5 | 98.0 | 1.3 | 99.3 | 90.5 | 87.1 | 91.8 | 98.8 | 0.6 |
| 28.0 | 98.1 | 1.2 | 99.3 | 90.4 | 87.2 | 91.9 | 98.9 | 0.6 |
| 28.5 | 97.9 | 0.7 | 98.6 | 90.3 | 87.0 | 91.7 | 98.7 | 0.2 |
| 29.0 | 98.1 | 1.2 | 99.3 | 90.4 | 87.2 | 91.9 | 98.9 | 0.6 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 98.0 | 1.2 | 99.2 | 90.3 | 87.2 | 91.7 | 98.7 | 2.0 |
| 30.0 | 98.0 | 1.5 | 99.5 | 90.2 | 87.3 | 91.8 | 98.8 | 2.0 |
| 30.5 | 98.3 | 1.4 | 99.7 | 90.4 | 87.8 | 92.1 | 99.1 | 2.0 |
| 31.0 | 98.1 | 1.6 | 99.7 | 90.3 | 87.4 | 91.9 | 98.9 | 2.0 |
| 31.5 | 98.7 | 1.3 | 100.0 | 91.0 | 88.3 | 92.6 | 99.6 | 2.0 |
| 32.0 | 98.5 | 1.3 | 99.8 | 90.9 | 88.0 | 92.3 | 99.3 | 2.0 |
| 32.5 | 98.6 | 1.3 | 99.9 | 91.1 | 88.1 | 92.4 | 99.4 | 2.0 |
| 33.0 | 98.3 | 1.3 | 99.6 | 90.9 | 87.9 | 92.2 | 99.2 | 2.0 |
| 33.5 | 97.8 | 1.7 | 99.5 | 90.3 | 87.3 | 91.7 | 98.7 | 2.0 |
| 34.0 | 98.8 | 1.8 | 100.6 | 90.5 | 87.8 | 92.4 | 99.4 | 2.0 |
| 34.5 | 99.9 | 1.7 | 101.6 | 90.4 | 87.9 | 93.4 | 100.4 | 2.0 |
| 35.0 | 99.4 | 1.7 | 101.1 | 90.6 | 87.9 | 93.0 | 100.0 | 2.0 |
| 35.5 | 99.3 | 1.4 | 100.7 | 90.7 | 87.6 | 92.9 | 99.9 | 2.0 |
| 36.0 | 99.7 | 1.3 | 101.0 | 91.0 | 88.3 | 93.4 | 100.4 | 2.0 |
| 36.5 | 100.2 | 1.3 | 101.5 | 91.4 | 88.8 | 93.9 | 100.9 | 2.0 |
| 37.0 | 99.9 | 1.3 | 101.2 | 91.6 | 88.7 | 93.7 | 100.7 | 2.0 |
| 37.5 | 99.4 | 1.2 | 100.6 | 91.3 | 88.3 | 93.2 | 100.2 | 2.0 |
| 38.0 | 98.7 | 0.5 | 99.2 | 90.6 | 87.7 | 92.6 | 99.6 | 0.6 |
| 38.5 | 99.2 | 1.0 | 100.2 | 90.4 | 87.4 | 92.8 | 99.8 | 1.9 |
| 39.0 | 99.3 | 1.0 | 100.3 | 90.9 | 87.7 | 92.9 | 99.9 | 1.9 |
| 39.5 | 99.9 | 0.7 | 100.6 | 91.0 | 87.8 | 93.2 | 100.2 | 0.6 |
| 40.0 | 99.6 | 0.7 | 100.3 | 91.2 | 88.1 | 93.2 | 100.2 | 0.6 |
| 40.5 | 100.5 | 1.3 | 101.8 | 91.2 | 88.4 | 94.1 | 101.1 | 1.9 |
| 41.0 | 100.6 | 1.5 | 102.1 | 92.0 | 88.7 | 94.2 | 101.2 | 1.9 |
| 41.5 | 100.8 | 1.3 | 102.1 | 92.2 | 89.2 | 94.5 | 101.5 | 1.9 |
| 42.0 | 100.3 | 1.2 | 101.5 | 92.1 | 88.5 | 93.8 | 100.8 | 1.9 |
| 42.5 | 100.4 | 1.4 | 101.8 | 91.9 | 88.3 | 93.7 | 100.7 | 1.9 |
| 43.0 | 100.1 | 1.4 | 101.5 | 92.3 | 88.3 | 93.4 | 100.4 | 1.9 |
| 43.5 | 99.7 | 1.1 | 100.8 | 92.2 | 88.2 | 93.1 | 100.1 | 1.9 |
| 44.0 | 99.5 | 0.9 | 100.4 | 92.7 | 88.7 | 93.2 | 100.2 | 0.9 |
| 44.5 | 98.9 | 1.0 | 99.9 | 92.6 | 88.0 | 92.5 | 99.5 | 1.9 |
| 45.0 | 98.9 | 1.1 | 100.0 | 92.8 | 87.6 | 92.2 | 99.2 | 1.1 |
| 45.5 | 99.2 | 1.1 | 100.3 | 93.3 | 87.9 | 92.4 | 99.4 | 0.9 |
| 46.0 | 99.3 | 1.0 | 100.3 | 93.7 | 88.0 | 92.5 | 99.5 | 0.9 |
| 46.5 | 98.4 | 1.0 | 99.4 | 93.5 | 86.8 | 91.7 | 98.7 | 0.9 |
| 47.0 | 98.0 | 0.9 | 98.9 | 93.5 | 86.6 | 91.4 | 98.4 | 0.4 |
| 47.5 | 97.5 | 1.1 | 98.6 | 92.8 | 85.8 | 90.7 | 97.7 | 1.1 |
| 48.0 | 96.7 | 0.8 | 97.5 | 92.2 | 84.8 | 89.8 | 96.8 | 0.9 |
| 48.5 | 97.2 | 1.0 | 98.2 | 92.6 | 85.6 | 90.4 | 97.4 | 1.1 |
| 49.0 | 97.4 | 0.7 | 98.1 | 93.3 | 85.8 | 90.8 | 97.8 | 0.9 |
| 49.5 | 97.1 | 0.0 | 97.1 | 93.0 | 85.9 | 90.6 | 97.6 | 0.1 |
| 50.0 | 97.5 | 0.6 | 98.1 | 93.4 | 85.4 | 90.5 | 97.5 | 0.7 |
| 50.5 | 97.1 | 0.5 | 97.6 | 93.5 | 84.7 | 90.2 | 97.2 | 0.2 |
| 51.0 | 97.6 | 1.7 | 99.3 | 93.7 | 85.4 | 90.6 | 97.6 | 1.8 |
| 51.5 | 97.6 | 1.5 | 99.1 | 94.1 | 84.5 | 90.3 | 97.3 | 1.8 |
| 52.0 | 97.4 | 1.4 | 98.8 | 94.7 | 83.7 | 90.3 | 97.3 | 1.8 |

MAXIMUM VALUES IN BANDS. PNLC =103.0

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 79.7 | 85.9 | 83.5 | 87.2 | 84.7 | 87.7 | 87.3 | 82.7 | 86.2 | 81.2 |
| 83.3 | 81.9 | 81.0 | 79.7 | 80.6 | 79.1 | 78.2 | 77.7 | 76.9 | 68.0 |
| 49.2 | 44.3 | 43.3 | 43.4 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 66.9 | 71.7 | 72.7 | 78.7 | 76.9 | 83.6 | 80.6 | 79.7 | 82.7 | 79.6 |
| 81.3 | 81.5 | 80.4 | 78.5 | 79.4 | 76.0 | 74.9 | 77.2 | 76.7 | 62.5 |
| 49.0 | 44.1 | 42.3 | 43.3 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P T | 2.5 | 1.8 | | | | | | |



BEST AVAILABLE COPY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PNL | 41.5 | 100.8 | 38.0 | 113.8 | 45.0 | 113.9 | 104.8 | 102.6 |
| PNLT | 41.0 | 102.1 | 38.0 | 115.0 | 45.0 | 115.1 | 106.1 | 103.9 |
| A-LEV | 41.5 | 89.2 | 44.0 | 102.7 | 45.5 | 102.8 | 93.9 | 91.0 |
| N-LEV | 41.5 | 101.5 | 38.0 | 114.4 | 45.5 | 114.5 | 105.5 | 103.3 |

EPNL =105.0

MAN ACOUSTICS, EVENT #10

| T | PNI | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 48.2 | 1.5 | 49.7 | 53.2 | 43.2 | 50.3 | 57.3 | 0.2 |
| 0.5 | 53.0 | 1.5 | 54.5 | 53.3 | 45.0 | 52.7 | 59.7 | 0.2 |
| 1.0 | 53.6 | 1.3 | 54.9 | 53.9 | 45.3 | 53.0 | 60.0 | 0.2 |
| 1.5 | 63.4 | 0.8 | 64.2 | 58.3 | 54.0 | 58.7 | 65.7 | 0.2 |
| 2.0 | 69.5 | 1.8 | 71.3 | 62.4 | 59.0 | 63.5 | 70.5 | 1.7 |
| 2.5 | 72.5 | 2.2 | 74.7 | 64.5 | 62.0 | 66.5 | 73.5 | 1.7 |
| 3.0 | 74.2 | 2.2 | 76.4 | 65.9 | 63.4 | 68.2 | 75.2 | 1.7 |
| 3.5 | 76.5 | 2.6 | 79.1 | 67.7 | 65.8 | 70.6 | 77.6 | 1.7 |
| 4.0 | 78.7 | 2.6 | 81.3 | 70.0 | 68.4 | 72.9 | 79.9 | 1.7 |
| 4.5 | 81.3 | 2.3 | 83.6 | 72.5 | 70.7 | 75.2 | 82.2 | 1.7 |
| 5.0 | 86.7 | 2.1 | 88.8 | 77.7 | 75.8 | 80.4 | 87.4 | 1.7 |
| 5.5 | 91.7 | 2.9 | 94.6 | 81.6 | 80.2 | 85.5 | 92.5 | 1.7 |
| 6.0 | 93.8 | 3.4 | 97.2 | 83.0 | 82.0 | 87.7 | 94.7 | 1.7 |
| 6.5 | 93.7 | 3.0 | 96.7 | 83.1 | 82.1 | 87.6 | 94.6 | 1.7 |
| 7.0 | 94.0 | 2.8 | 96.8 | 83.2 | 82.2 | 87.9 | 94.9 | 1.7 |
| 7.5 | 94.3 | 2.6 | 96.9 | 83.4 | 82.4 | 88.1 | 95.1 | 1.7 |
| 8.0 | 94.8 | 2.9 | 97.7 | 83.5 | 82.8 | 88.8 | 95.8 | 1.7 |
| 8.5 | 94.9 | 2.9 | 97.8 | 83.8 | 83.1 | 88.9 | 95.9 | 1.7 |
| 9.0 | 95.5 | 2.6 | 98.1 | 84.5 | 83.9 | 89.6 | 96.6 | 1.7 |
| 9.5 | 95.6 | 2.4 | 98.0 | 84.6 | 83.9 | 89.7 | 96.7 | 1.7 |
| 10.0 | 95.8 | 2.0 | 97.8 | 84.8 | 84.1 | 89.8 | 96.8 | 1.7 |
| 10.5 | 96.0 | 1.9 | 97.9 | 85.0 | 84.2 | 90.0 | 97.0 | 1.7 |
| 11.0 | 96.0 | 1.7 | 97.7 | 85.2 | 84.0 | 89.9 | 96.9 | 1.7 |
| 11.5 | 96.6 | 1.9 | 98.5 | 85.6 | 84.3 | 90.4 | 97.4 | 1.7 |
| 12.0 | 98.1 | 1.6 | 99.7 | 86.7 | 85.9 | 92.0 | 99.0 | 1.7 |
| 12.5 | 100.0 | 1.7 | 101.7 | 88.5 | 88.1 | 94.1 | 101.1 | 1.7 |
| 13.0 | 100.0 | 1.6 | 101.6 | 88.6 | 87.9 | 93.9 | 100.9 | 1.7 |
| 13.5 | 100.1 | 1.7 | 101.8 | 88.5 | 87.7 | 93.9 | 100.9 | 1.7 |
| 14.0 | 100.4 | 1.8 | 102.2 | 88.4 | 88.0 | 94.4 | 101.4 | 1.7 |
| 14.5 | 101.7 | 1.8 | 103.5 | 89.5 | 89.3 | 95.9 | 102.9 | 1.7 |
| 15.0 | 102.3 | 2.1 | 104.4 | 89.8 | 89.8 | 96.5 | 103.5 | 1.7 |
| 15.5 | 102.0 | 2.1 | 104.1 | 89.4 | 89.5 | 96.4 | 103.4 | 1.7 |
| 16.0 | 102.1 | 2.1 | 104.2 | 89.4 | 89.6 | 96.7 | 103.7 | 1.7 |
| 16.5 | 102.8 | 2.0 | 104.8 | 90.0 | 90.4 | 97.6 | 104.6 | 1.7 |
| 17.0 | 102.8 | 1.8 | 104.6 | 90.0 | 90.3 | 97.5 | 104.5 | 1.7 |
| 17.5 | 102.7 | 1.7 | 104.6 | 90.3 | 90.7 | 97.9 | 104.9 | 2.4 |
| 18.0 | 102.8 | 1.2 | 104.0 | 90.4 | 90.7 | 98.0 | 105.0 | 2.4 |
| 18.5 | 102.6 | 1.1 | 103.7 | 90.2 | 90.4 | 97.8 | 104.8 | 2.4 |
| 19.0 | 103.1 | 0.6 | 103.7 | 90.6 | 90.8 | 98.3 | 105.3 | 2.4 |
| 19.5 | 102.9 | 0.6 | 103.5 | 90.6 | 90.7 | 98.2 | 105.2 | 0.3 |
| 20.0 | 102.8 | 0.5 | 103.3 | 90.6 | 90.6 | 98.0 | 105.0 | 0.3 |
| 20.5 | 102.7 | 0.0 | 102.7 | 90.7 | 90.6 | 97.9 | 104.9 | 0.1 |
| 21.0 | 102.7 | 0.0 | 102.7 | 90.8 | 90.6 | 97.7 | 104.7 | 0.1 |
| 21.5 | 102.6 | 1.0 | 103.6 | 91.1 | 90.6 | 97.4 | 104.4 | 1.6 |
| 22.0 | 103.6 | 1.7 | 105.3 | 91.9 | 91.5 | 98.0 | 105.0 | 1.6 |
| 22.5 | 104.0 | 1.9 | 105.9 | 92.3 | 91.9 | 98.3 | 105.3 | 1.6 |
| 23.0 | 104.0 | 1.7 | 105.7 | 92.4 | 91.9 | 98.3 | 105.3 | 1.6 |
| 23.5 | 103.8 | 1.3 | 105.1 | 92.5 | 91.8 | 98.2 | 105.2 | 1.6 |
| 24.0 | 103.9 | 1.2 | 105.1 | 92.6 | 92.0 | 98.3 | 105.3 | 1.6 |
| 24.5 | 103.6 | 0.0 | 103.6 | 92.6 | 91.9 | 98.1 | 105.1 | 0.1 |
| 25.0 | 103.4 | 0.0 | 103.4 | 92.7 | 92.0 | 98.0 | 105.0 | 0.1 |
| 25.5 | 102.9 | 1.1 | 104.0 | 92.3 | 91.5 | 97.4 | 104.4 | 1.5 |
| 26.0 | 102.4 | 1.1 | 103.5 | 91.9 | 90.9 | 96.8 | 103.8 | 1.5 |
| 26.5 | 101.9 | 1.2 | 103.1 | 91.4 | 90.7 | 96.4 | 103.4 | 1.5 |
| 27.0 | 101.5 | 1.5 | 103.0 | 91.5 | 91.0 | 96.2 | 103.2 | 1.5 |
| 27.5 | 100.6 | 1.5 | 102.1 | 90.9 | 90.3 | 95.4 | 102.4 | 1.5 |
| 28.0 | 100.0 | 1.5 | 101.5 | 90.4 | 89.6 | 94.7 | 101.7 | 2.4 |
| 28.5 | 99.7 | 1.5 | 101.2 | 89.6 | 88.7 | 94.0 | 101.0 | 2.4 |
| 29.0 | 99.0 | 1.5 | 100.5 | 89.1 | 88.2 | 93.5 | 100.5 | 2.4 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 98.3 | 1.5 | 99.8 | 88.6 | 87.5 | 92.6 | 99.6 | 1.5 |
| 30.0 | 97.4 | 2.1 | 99.5 | 88.2 | 86.7 | 91.6 | 98.6 | 1.5 |
| 30.5 | 96.7 | 1.4 | 98.3 | 87.8 | 85.7 | 90.8 | 97.8 | 1.5 |
| 31.0 | 96.4 | 1.3 | 97.7 | 87.4 | 85.0 | 90.2 | 97.2 | 1.5 |
| 31.5 | 95.3 | 1.2 | 96.5 | 87.0 | 83.9 | 89.0 | 96.0 | 1.5 |
| 32.0 | 94.4 | 1.2 | 95.6 | 86.5 | 82.9 | 87.9 | 94.9 | 1.5 |
| 32.5 | 93.7 | 1.3 | 95.2 | 86.6 | 82.3 | 87.3 | 94.3 | 1.5 |
| 33.0 | 93.6 | 1.5 | 95.1 | 86.8 | 82.4 | 87.1 | 94.1 | 1.5 |
| 33.5 | 93.8 | 1.8 | 95.6 | 86.8 | 82.6 | 87.1 | 94.1 | 1.5 |
| 34.0 | 93.5 | 1.5 | 95.0 | 86.3 | 82.7 | 87.1 | 94.1 | 1.5 |
| 34.5 | 93.2 | 1.3 | 94.5 | 86.2 | 82.5 | 86.8 | 93.8 | 1.5 |
| 35.0 | 92.7 | 0.6 | 93.3 | 85.8 | 81.9 | 86.3 | 93.3 | 1.0 |
| 35.5 | 92.4 | 0.0 | 92.4 | 85.5 | 81.3 | 85.9 | 92.9 | 0.1 |
| 36.0 | 92.0 | 0.0 | 92.0 | 85.1 | 81.0 | 85.5 | 92.5 | 0.1 |
| 36.5 | 91.3 | 0.0 | 91.3 | 84.7 | 80.2 | 84.8 | 91.8 | 0.1 |
| 37.0 | 90.6 | 0.0 | 90.6 | 84.6 | 79.6 | 84.1 | 91.1 | 0.1 |
| 37.5 | 90.0 | 0.0 | 90.0 | 84.2 | 79.1 | 83.5 | 90.5 | 0.1 |
| 38.0 | 89.8 | 0.0 | 89.8 | 84.5 | 78.8 | 83.3 | 90.3 | 0.1 |
| 38.5 | 89.6 | 0.0 | 89.6 | 84.4 | 78.5 | 83.0 | 90.0 | 0.1 |
| 39.0 | 89.7 | 0.0 | 89.7 | 84.2 | 78.9 | 83.3 | 90.3 | 0.1 |
| 39.5 | 89.7 | 1.7 | 91.4 | 84.0 | 78.8 | 83.1 | 90.1 | 1.5 |
| 40.0 | 89.3 | 1.5 | 90.8 | 84.0 | 78.3 | 82.7 | 89.7 | 1.5 |
| 40.5 | 89.2 | 1.6 | 90.8 | 83.8 | 78.1 | 82.5 | 89.5 | 1.5 |
| 41.0 | 89.1 | 1.7 | 90.8 | 84.1 | 78.0 | 82.4 | 89.4 | 1.5 |
| 41.5 | 88.9 | 1.2 | 90.1 | 83.9 | 77.7 | 82.1 | 89.1 | 1.5 |
| 42.0 | 88.9 | 1.1 | 90.0 | 84.2 | 77.6 | 82.1 | 89.1 | 1.5 |
| 42.5 | 89.0 | 1.1 | 90.1 | 84.3 | 77.9 | 82.3 | 89.3 | 1.5 |
| 43.0 | 89.1 | 1.3 | 90.4 | 84.0 | 78.2 | 82.3 | 89.3 | 1.5 |
| 43.5 | 88.8 | 1.5 | 90.3 | 83.3 | 78.1 | 82.0 | 89.0 | 1.5 |
| 44.0 | 87.7 | 1.5 | 89.2 | 82.2 | 77.1 | 80.9 | 87.9 | 1.5 |
| 44.5 | 86.1 | 1.4 | 87.5 | 80.7 | 75.6 | 79.4 | 86.4 | 1.5 |
| 45.0 | 84.1 | 1.4 | 85.5 | 79.0 | 73.7 | 77.5 | 84.5 | 1.5 |
| 45.5 | 81.7 | 1.5 | 83.2 | 77.0 | 71.6 | 75.4 | 82.4 | 1.5 |
| 46.0 | 79.8 | 1.4 | 81.2 | 75.2 | 69.6 | 73.5 | 80.5 | 1.5 |

MAXIMUM VALUES IN BANDS, PNLC =106.0

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 78.5 | 77.1 | 78.3 | 78.1 | 75.4 | 78.5 | 81.6 | 83.1 | 80.1 | 79.7 |
| 78.5 | 78.7 | 78.1 | 81.1 | 86.3 | 87.1 | 86.0 | 81.1 | 80.1 | 79.5 |
| 73.3 | 66.3 | 57.1 | 46.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 69.0 | 68.0 | 67.6 | 69.6 | 72.7 | 78.2 | 79.4 | 79.9 | 79.1 | 76.6 |
| 77.9 | 76.4 | 77.1 | 78.6 | 82.2 | 87.1 | 80.8 | 80.7 | 79.7 | 74.4 |
| 71.2 | 64.0 | 54.1 | 45.4 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 6.0 | 3.4 | | | | | | |
| PNL | 22.5 | 104.0 | 25.5 | 115.2 | 41.0 | 115.4 | 106.3 | 105.4 |
| PNLT | 22.5 | 105.9 | 26.5 | 116.6 | 40.5 | 116.8 | 108.4 | 107.2 |
| A-LEV | 24.0 | 92.0 | 29.0 | 103.4 | 41.0 | 103.6 | 94.9 | 93.4 |
| N-LEV | 19.0 | 105.3 | 24.5 | 116.7 | 40.5 | 116.9 | 107.4 | 106.6 |

EPNL =106.6

MAN ACOUSTICS, EVENT #11

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 70.1 | 0.8 | 70.9 | 61.2 | 58.0 | 63.4 | 70.4 | 0.2 |
| 0.5 | 72.2 | 0.5 | 72.7 | 62.9 | 60.1 | 65.5 | 72.5 | 0.2 |
| 1.0 | 75.4 | 1.2 | 76.6 | 65.4 | 63.2 | 68.8 | 75.8 | 1.1 |
| 1.5 | 79.8 | 1.4 | 81.2 | 69.8 | 68.4 | 73.5 | 80.5 | 1.1 |
| 2.0 | 83.6 | 1.3 | 84.9 | 73.4 | 72.2 | 77.5 | 84.5 | 1.1 |
| 2.5 | 88.2 | 2.0 | 90.2 | 77.9 | 76.7 | 82.5 | 89.5 | 1.9 |
| 3.0 | 90.7 | 2.5 | 93.2 | 80.4 | 79.1 | 85.3 | 92.3 | 1.9 |
| 3.5 | 92.2 | 2.8 | 95.0 | 81.9 | 80.8 | 87.0 | 94.0 | 1.9 |
| 4.0 | 93.2 | 2.8 | 96.0 | 82.6 | 81.5 | 87.9 | 94.9 | 1.9 |
| 4.5 | 94.4 | 3.4 | 97.8 | 82.6 | 81.4 | 88.5 | 95.5 | 1.9 |
| 5.0 | 95.8 | 3.7 | 99.5 | 83.1 | 82.1 | 89.7 | 96.7 | 1.9 |
| 5.5 | 97.3 | 3.7 | 101.0 | 83.7 | 83.1 | 91.4 | 98.4 | 1.9 |
| 6.0 | 97.0 | 3.7 | 100.7 | 83.6 | 82.6 | 90.9 | 97.9 | 1.9 |
| 6.5 | 97.3 | 3.6 | 100.9 | 83.8 | 82.8 | 91.2 | 98.2 | 1.9 |
| 7.0 | 98.5 | 3.9 | 102.4 | 84.5 | 83.9 | 92.6 | 99.6 | 1.9 |
| 7.5 | 98.8 | 3.9 | 102.7 | 84.7 | 84.3 | 93.0 | 100.0 | 1.9 |
| 8.0 | 99.6 | 3.9 | 103.5 | 85.4 | 85.1 | 93.8 | 100.8 | 1.9 |
| 8.5 | 100.9 | 4.0 | 104.9 | 86.4 | 86.6 | 95.4 | 102.4 | 1.9 |
| 9.0 | 101.7 | 4.5 | 106.2 | 87.0 | 87.4 | 96.5 | 103.5 | 1.9 |
| 9.5 | 102.0 | 4.7 | 106.7 | 87.3 | 87.8 | 96.8 | 103.8 | 1.9 |
| 10.0 | 102.1 | 4.5 | 106.6 | 87.6 | 87.9 | 96.7 | 103.7 | 1.9 |
| 10.5 | 103.0 | 4.6 | 107.6 | 88.3 | 88.7 | 97.6 | 104.6 | 1.9 |
| 11.0 | 102.9 | 4.5 | 107.4 | 88.2 | 88.6 | 97.5 | 104.5 | 1.9 |
| 11.5 | 102.8 | 4.3 | 107.1 | 88.1 | 88.5 | 97.4 | 104.4 | 1.9 |
| 12.0 | 103.2 | 4.0 | 107.2 | 88.5 | 88.9 | 97.8 | 104.8 | 1.9 |
| 12.5 | 103.5 | 3.7 | 107.2 | 88.9 | 89.4 | 98.3 | 105.3 | 1.9 |
| 13.0 | 103.8 | 3.8 | 107.6 | 89.7 | 90.2 | 99.1 | 106.1 | 1.9 |
| 13.5 | 104.0 | 2.4 | 106.4 | 89.8 | 90.4 | 99.2 | 106.2 | 1.8 |
| 14.0 | 104.7 | 2.8 | 107.5 | 90.2 | 90.8 | 99.6 | 106.6 | 1.8 |
| 14.5 | 105.3 | 3.2 | 108.5 | 90.6 | 91.3 | 100.0 | 107.0 | 1.8 |
| 15.0 | 105.6 | 3.2 | 108.8 | 90.9 | 91.6 | 100.3 | 107.3 | 1.8 |
| 15.5 | 105.9 | 4.0 | 109.9 | 91.3 | 92.1 | 100.8 | 107.8 | 1.8 |
| 16.0 | 105.9 | 4.0 | 109.9 | 91.5 | 92.4 | 100.8 | 107.8 | 1.8 |
| 16.5 | 105.9 | 4.2 | 110.1 | 91.6 | 92.5 | 101.0 | 108.0 | 1.8 |
| 17.0 | 105.5 | 4.2 | 109.7 | 91.2 | 92.0 | 100.4 | 107.4 | 1.8 |
| 17.5 | 104.6 | 3.9 | 108.5 | 90.4 | 91.0 | 99.4 | 106.4 | 1.8 |
| 18.0 | 103.2 | 3.6 | 106.8 | 89.1 | 89.4 | 97.7 | 104.7 | 1.8 |
| 18.5 | 102.5 | 3.5 | 106.0 | 88.6 | 88.7 | 96.8 | 103.8 | 1.8 |
| 19.0 | 101.7 | 3.2 | 104.9 | 88.2 | 88.0 | 95.9 | 102.9 | 1.8 |
| 19.5 | 101.0 | 3.4 | 104.4 | 87.7 | 87.2 | 95.1 | 102.1 | 1.8 |
| 20.0 | 100.3 | 3.7 | 104.0 | 87.3 | 86.6 | 94.5 | 101.5 | 1.8 |
| 20.5 | 99.7 | 3.7 | 103.4 | 86.9 | 86.1 | 94.0 | 101.0 | 1.8 |
| 21.0 | 98.3 | 3.5 | 101.8 | 86.5 | 84.6 | 92.4 | 99.4 | 1.8 |
| 21.5 | 97.3 | 1.7 | 99.0 | 86.8 | 83.5 | 91.2 | 98.2 | 1.8 |
| 22.0 | 96.8 | 1.8 | 98.6 | 86.9 | 83.1 | 90.9 | 97.9 | 1.7 |
| 22.5 | 96.3 | 1.8 | 98.1 | 86.6 | 82.6 | 90.3 | 97.3 | 1.7 |
| 23.0 | 95.6 | 1.7 | 97.3 | 86.5 | 81.7 | 89.3 | 96.3 | 1.8 |
| 23.5 | 94.8 | 1.7 | 96.5 | 86.2 | 80.8 | 88.3 | 95.3 | 1.8 |
| 24.0 | 94.5 | 1.7 | 96.2 | 86.2 | 80.3 | 87.9 | 94.9 | 1.8 |
| 24.5 | 93.9 | 1.8 | 95.7 | 86.2 | 80.0 | 87.4 | 94.4 | 1.8 |
| 25.0 | 93.4 | 1.7 | 95.1 | 86.8 | 79.4 | 86.6 | 93.6 | 1.8 |
| 25.5 | 92.8 | 1.8 | 94.6 | 86.5 | 79.1 | 86.1 | 93.1 | 1.7 |
| 26.0 | 92.9 | 1.9 | 94.8 | 86.1 | 79.3 | 86.2 | 93.2 | 1.7 |
| 26.5 | 93.4 | 2.2 | 95.6 | 85.8 | 79.9 | 86.9 | 93.9 | 1.7 |
| 27.0 | 93.0 | 2.0 | 95.0 | 85.5 | 79.4 | 86.5 | 93.5 | 1.7 |
| 27.5 | 92.7 | 2.1 | 94.8 | 85.6 | 78.9 | 86.0 | 93.0 | 1.7 |
| 28.0 | 92.2 | 1.8 | 94.0 | 85.5 | 78.5 | 85.4 | 92.4 | 1.7 |
| 28.5 | 92.0 | 1.8 | 93.8 | 85.4 | 78.4 | 85.1 | 92.1 | 1.7 |
| 29.0 | 92.0 | 1.9 | 93.9 | 85.3 | 78.5 | 85.2 | 92.2 | 1.7 |

MAXIMUM VALUES IN BANDS. PNLC =107.4

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 77.8 | 80.8 | 81.1 | 80.1 | 73.6 | 74.1 | 75.0 | 75.2 | 71.9 | 72.8 |
| 73.4 | 71.7 | 72.5 | 73.0 | 76.1 | 78.6 | 84.5 | 89.3 | 85.3 | 76.2 |
| 77.6 | 68.5 | 63.0 | 50.2 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 63.7 | 63.4 | 63.0 | 66.3 | 66.1 | 73.0 | 73.5 | 71.4 | 70.0 | 72.0 |
| 69.0 | 71.1 | 70.3 | 72.1 | 75.1 | 74.7 | 84.5 | 89.1 | 77.0 | 75.7 |
| 77.2 | 67.7 | 61.9 | 49.8 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 9.5 | 4.7 | | | | | | |
| PNL | 15.5 | 105.9 | 18.0 | 115.1 | 27.0 | 115.3 | 106.7 | 105.4 |
| PNLT | 16.5 | 110.1 | 16.5 | 118.8 | 27.0 | 119.0 | 110.5 | 109.6 |
| A-LEV | 16.5 | 92.5 | 18.0 | 101.2 | 27.0 | 101.5 | 93.3 | 92.0 |
| N-LEV | 16.5 | 108.0 | 16.0 | 116.7 | 27.0 | 116.9 | 108.3 | 107.5 |

EPNL =108.8

MAN ACOUSTICS, EVENT #12

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 81.1 | 1.5 | 82.6 | 78.3 | 68.0 | 74.1 | 81.1 | 0.4 |
| 0.5 | 86.4 | 1.9 | 88.3 | 84.5 | 71.6 | 78.8 | 85.8 | 0.4 |
| 1.0 | 89.1 | 1.8 | 90.9 | 87.2 | 74.3 | 81.5 | 88.5 | 0.4 |
| 1.5 | 89.5 | 1.5 | 91.0 | 87.1 | 76.2 | 82.4 | 89.4 | 0.4 |
| 2.0 | 89.2 | 0.8 | 90.0 | 86.0 | 76.6 | 82.5 | 89.5 | 0.4 |
| 2.5 | 89.8 | 1.1 | 90.9 | 85.7 | 77.1 | 82.8 | 89.8 | 0.6 |
| 3.0 | 95.4 | 6.7 | 102.1 | 86.6 | 80.3 | 88.3 | 95.3 | 1.9 |
| 3.5 | 91.6 | 1.6 | 93.2 | 87.4 | 78.6 | 84.4 | 91.4 | 0.4 |
| 4.0 | 93.6 | 1.9 | 95.5 | 89.8 | 80.0 | 86.1 | 93.1 | 0.4 |
| 4.5 | 93.9 | 1.6 | 95.5 | 89.9 | 81.0 | 86.7 | 93.7 | 0.4 |
| 5.0 | 93.9 | 1.4 | 95.3 | 89.6 | 82.1 | 87.4 | 94.4 | 0.4 |
| 5.5 | 94.4 | 1.0 | 95.4 | 89.3 | 82.7 | 87.7 | 94.7 | 0.2 |
| 6.0 | 95.0 | 0.9 | 95.9 | 89.6 | 83.7 | 88.4 | 95.4 | 0.4 |
| 6.5 | 96.5 | 1.0 | 97.5 | 90.1 | 85.2 | 89.7 | 96.7 | 0.7 |
| 7.0 | 97.9 | 1.1 | 99.0 | 91.3 | 86.5 | 90.7 | 97.7 | 0.7 |
| 7.5 | 98.2 | 0.9 | 99.1 | 92.2 | 87.0 | 91.3 | 98.3 | 0.7 |
| 8.0 | 98.7 | 0.8 | 99.5 | 93.1 | 87.4 | 91.9 | 98.9 | 2.4 |
| 8.5 | 98.8 | 1.6 | 100.4 | 93.8 | 87.4 | 92.0 | 99.0 | 0.3 |
| 9.0 | 99.0 | 2.2 | 101.2 | 94.4 | 87.1 | 92.1 | 99.1 | 0.3 |
| 9.5 | 98.0 | 2.5 | 100.5 | 93.9 | 85.9 | 91.2 | 98.2 | 0.3 |
| 10.0 | 97.0 | 2.7 | 99.7 | 93.2 | 85.0 | 90.3 | 97.3 | 0.3 |
| 10.5 | 96.4 | 2.7 | 99.1 | 92.4 | 84.1 | 89.6 | 96.6 | 0.3 |
| 11.0 | 96.2 | 2.6 | 98.8 | 92.0 | 83.7 | 89.5 | 96.5 | 0.3 |
| 11.5 | 96.5 | 2.4 | 98.9 | 91.7 | 83.4 | 89.5 | 96.5 | 0.3 |
| 12.0 | 95.4 | 2.1 | 97.5 | 90.3 | 82.9 | 88.8 | 95.8 | 0.3 |
| 12.5 | 94.7 | 1.9 | 96.6 | 89.1 | 82.4 | 88.2 | 95.2 | 0.3 |
| 13.0 | 94.6 | 1.7 | 96.3 | 87.8 | 82.6 | 88.0 | 95.0 | 0.3 |
| 13.5 | 94.3 | 1.5 | 95.8 | 86.9 | 82.4 | 87.6 | 94.6 | 0.3 |
| 14.0 | 93.8 | 1.4 | 95.2 | 87.1 | 82.0 | 87.2 | 94.2 | 0.3 |
| 14.5 | 93.6 | 1.2 | 94.8 | 87.5 | 81.9 | 87.1 | 94.1 | 0.3 |
| 15.0 | 93.4 | 1.4 | 94.8 | 87.7 | 81.6 | 86.8 | 93.8 | 0.3 |
| 15.5 | 93.2 | 1.7 | 94.9 | 87.4 | 81.7 | 86.6 | 93.6 | 0.3 |
| 16.0 | 93.6 | 2.0 | 95.6 | 87.6 | 81.6 | 86.6 | 93.6 | 0.3 |
| 16.5 | 92.7 | 2.0 | 94.7 | 86.9 | 81.3 | 86.1 | 93.1 | 0.3 |
| 17.0 | 92.5 | 2.0 | 94.5 | 86.7 | 81.0 | 85.7 | 92.7 | 0.3 |
| 17.5 | 91.6 | 1.9 | 93.5 | 86.1 | 80.5 | 85.1 | 92.1 | 0.3 |
| 18.0 | 91.6 | 1.9 | 93.5 | 86.3 | 80.1 | 84.6 | 91.6 | 0.3 |
| 18.5 | 92.2 | 1.8 | 94.0 | 87.4 | 79.7 | 84.7 | 91.7 | 0.3 |
| 19.0 | 92.4 | 1.5 | 93.9 | 87.9 | 79.4 | 84.8 | 91.8 | 0.3 |
| 19.5 | 91.6 | 1.1 | 92.7 | 87.3 | 78.5 | 84.0 | 91.0 | 0.3 |
| 20.0 | 90.4 | 1.4 | 91.8 | 86.9 | 77.3 | 83.0 | 90.0 | 0.3 |
| 20.5 | 90.7 | 1.4 | 92.1 | 86.7 | 77.2 | 83.1 | 90.1 | 0.3 |
| 21.0 | 90.0 | 1.3 | 91.3 | 86.1 | 76.6 | 82.6 | 89.6 | 0.3 |

MAXIMUM VALUES IN BANDS, PNLC =101.5

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 68.5 | 79.9 | 89.7 | 87.6 | 85.9 | 87.5 | 85.2 | 85.0 | 85.1 | 84.3 |
| 82.2 | 81.0 | 79.4 | 77.0 | 75.4 | 74.0 | 72.5 | 69.8 | 75.7 | 61.9 |
| 56.4 | 49.7 | 43.5 | 43.1 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 64.3 | 70.5 | 77.1 | 82.0 | 73.8 | 78.7 | 70.0 | 68.4 | 72.2 | 72.6 |
| 68.4 | 67.6 | 68.8 | 68.4 | 68.9 | 65.5 | 65.0 | 60.9 | 75.7 | 50.3 |
| 42.4 | 40.9 | 41.7 | 42.9 | | | | | | |



| TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| P. T. | 3.0 | 6.7 | | | | | | |
| PNL | 9.0 | 99.0 | 20.5 | 107.9 | 21.0 | 107.9 | 100.4 | 97.5 |
| PNLT | 3.0 | 102.1 | 17.5 | 109.7 | 21.0 | 109.9 | 102.8 | 100.6 |
| A-LEV | 8.0 | 87.4 | 17.5 | 95.8 | 21.0 | 95.9 | 88.1 | 85.9 |
| N-LEV | 9.0 | 99.1 | 20.0 | 108.0 | 21.0 | 108.0 | 100.3 | 97.6 |

EPNL = 99.7

MAN ACOUSTICS, EVENT #13

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 74.7 | 2.3 | 77.0 | 71.2 | 62.7 | 68.1 | 75.1 | 0.4 |
| 0.5 | 75.8 | 2.4 | 78.2 | 72.7 | 63.1 | 68.9 | 75.9 | 0.4 |
| 1.0 | 77.3 | 2.4 | 79.7 | 74.1 | 64.4 | 70.2 | 77.2 | 0.4 |
| 1.5 | 82.2 | 2.4 | 84.6 | 78.1 | 70.6 | 75.5 | 82.5 | 0.4 |
| 2.0 | 88.0 | 2.8 | 90.8 | 84.9 | 74.5 | 80.4 | 87.4 | 0.4 |
| 2.5 | 89.6 | 2.9 | 92.5 | 86.2 | 76.6 | 82.1 | 89.1 | 0.4 |
| 3.0 | 90.3 | 2.6 | 92.9 | 86.2 | 77.7 | 83.3 | 90.3 | 0.4 |
| 3.5 | 90.8 | 2.6 | 93.4 | 86.3 | 78.8 | 84.0 | 91.0 | 0.4 |
| 4.0 | 91.6 | 2.8 | 94.4 | 87.6 | 78.9 | 84.6 | 91.6 | 0.4 |
| 4.5 | 92.6 | 3.0 | 95.6 | 88.3 | 79.7 | 85.7 | 92.7 | 0.4 |
| 5.0 | 93.4 | 3.1 | 96.5 | 88.5 | 81.2 | 86.9 | 93.9 | 0.4 |
| 5.5 | 93.2 | 2.8 | 96.0 | 87.8 | 81.2 | 86.7 | 93.7 | 0.4 |
| 6.0 | 93.7 | 2.7 | 96.4 | 88.8 | 81.4 | 87.1 | 94.1 | 0.4 |
| 6.5 | 94.5 | 2.2 | 96.7 | 89.2 | 82.0 | 87.5 | 94.5 | 2.4 |
| 7.0 | 94.8 | 2.3 | 97.1 | 89.8 | 82.2 | 88.0 | 95.0 | 2.4 |
| 7.5 | 95.7 | 2.2 | 97.9 | 90.4 | 82.8 | 88.8 | 95.8 | 2.4 |
| 8.0 | 96.0 | 2.4 | 98.4 | 90.3 | 83.0 | 89.2 | 96.2 | 2.4 |
| 8.5 | 96.7 | 2.6 | 99.5 | 91.3 | 83.5 | 89.8 | 96.8 | 2.4 |
| 9.0 | 97.2 | 2.5 | 99.7 | 91.9 | 83.7 | 90.0 | 97.0 | 2.4 |
| 9.5 | 98.3 | 2.5 | 100.8 | 92.4 | 84.4 | 90.7 | 97.7 | 2.4 |
| 10.0 | 99.1 | 2.4 | 101.5 | 93.7 | 85.1 | 91.5 | 98.5 | 2.4 |
| 10.5 | 98.6 | 2.4 | 101.0 | 94.2 | 84.9 | 91.5 | 98.5 | 0.6 |
| 11.0 | 98.5 | 2.7 | 101.2 | 93.8 | 84.6 | 91.3 | 98.3 | 2.4 |
| 11.5 | 98.7 | 2.7 | 101.4 | 93.9 | 84.9 | 91.5 | 98.5 | 2.4 |
| 12.0 | 98.4 | 2.5 | 100.9 | 94.1 | 84.2 | 91.0 | 98.0 | 2.4 |
| 12.5 | 97.6 | 2.5 | 100.1 | 94.1 | 83.4 | 90.4 | 97.4 | 2.4 |
| 13.0 | 97.8 | 2.1 | 99.9 | 94.6 | 83.1 | 90.3 | 97.3 | 2.4 |
| 13.5 | 97.4 | 1.9 | 99.3 | 94.1 | 82.7 | 89.9 | 96.9 | 0.6 |
| 14.0 | 96.7 | 1.9 | 98.6 | 93.3 | 82.3 | 89.2 | 96.2 | 0.5 |
| 14.5 | 95.9 | 1.8 | 97.7 | 92.0 | 82.4 | 88.6 | 95.6 | 0.5 |
| 15.0 | 94.9 | 1.8 | 96.7 | 90.5 | 81.9 | 87.8 | 94.8 | 2.1 |
| 15.5 | 93.8 | 1.6 | 95.4 | 90.1 | 81.0 | 86.9 | 93.9 | 0.2 |
| 16.0 | 93.5 | 1.6 | 95.1 | 89.9 | 80.5 | 86.5 | 93.5 | 0.2 |
| 16.5 | 92.8 | 1.5 | 94.3 | 89.5 | 79.8 | 85.8 | 92.8 | 0.2 |
| 17.0 | 92.1 | 1.5 | 93.6 | 88.7 | 79.3 | 85.2 | 92.2 | 0.2 |
| 17.5 | 91.6 | 1.5 | 93.1 | 87.4 | 79.5 | 84.8 | 91.8 | 2.0 |
| 18.0 | 91.3 | 1.5 | 92.8 | 87.0 | 79.0 | 84.4 | 91.4 | 2.0 |
| 18.5 | 90.7 | 1.7 | 92.4 | 87.1 | 78.5 | 84.0 | 91.0 | 2.0 |
| 19.0 | 90.2 | 1.7 | 91.9 | 87.0 | 78.1 | 83.6 | 90.6 | 0.2 |
| 19.5 | 90.0 | 1.6 | 91.6 | 86.9 | 77.8 | 83.2 | 90.2 | 0.2 |
| 20.0 | 89.7 | 1.4 | 91.1 | 86.8 | 77.3 | 82.8 | 89.8 | 0.2 |
| 20.5 | 89.5 | 1.4 | 90.9 | 86.6 | 76.7 | 82.2 | 89.2 | 0.2 |
| 21.0 | 89.2 | 1.6 | 90.8 | 86.9 | 76.3 | 82.0 | 89.0 | 0.2 |
| 21.5 | 88.5 | 1.7 | 90.2 | 86.6 | 76.0 | 81.7 | 88.7 | 0.2 |
| 22.0 | 88.5 | 1.6 | 90.1 | 86.8 | 75.8 | 81.5 | 88.5 | 0.2 |
| 22.5 | 88.3 | 1.7 | 90.0 | 86.9 | 75.1 | 81.0 | 88.0 | 0.2 |
| 23.0 | 87.8 | 1.7 | 89.5 | 86.3 | 74.9 | 80.8 | 87.8 | 0.2 |
| 23.5 | 87.3 | 1.4 | 88.7 | 85.3 | 74.7 | 80.4 | 87.4 | 0.2 |

MAXIMUM VALUES IN BANDS, PNLC =101.1

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 72.2 | 84.9 | 90.5 | 85.8 | 86.6 | 91.0 | 83.3 | 89.8 | 79.2 | 78.2 |
| 74.6 | 73.4 | 73.5 | 74.4 | 72.7 | 72.1 | 72.0 | 70.4 | 66.4 | 65.6 |
| 65.7 | 58.4 | 42.7 | 43.1 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 65.1 | 68.0 | 84.3 | 74.7 | 75.6 | 88.7 | 78.7 | 89.8 | 77.6 | 77.9 |
| 74.2 | 73.3 | 71.9 | 71.6 | 71.3 | 70.5 | 70.4 | 68.6 | 65.2 | 61.9 |
| 64.0 | 56.7 | 42.6 | 43.1 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 5.0 | 3.1 | | | | | | |
| PNL | 10.0 | 99.1 | 19.5 | 108.0 | 22.5 | 108.1 | 100.2 | 97.9 |
| PNLT | 10.0 | 101.5 | 18.0 | 110.3 | 22.5 | 110.4 | 102.3 | 100.3 |
| A-LEV | 10.0 | 85.1 | 20.5 | 94.6 | 22.5 | 94.7 | 86.5 | 83.9 |
| N-LEV | 10.0 | 98.5 | 20.0 | 107.9 | 22.5 | 108.0 | 99.7 | 97.3 |

EPNL =100.3

MAN ACOUSTICS, EVENT #14

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 72.0 | 0.0 | 72.0 | 69.1 | 61.1 | 66.3 | 73.3 | 0.1 |
| 0.5 | 74.0 | 0.0 | 74.0 | 70.2 | 63.1 | 67.8 | 74.8 | 0.1 |
| 1.0 | 76.1 | 0.0 | 76.1 | 71.8 | 65.8 | 70.0 | 77.0 | 0.1 |
| 1.5 | 78.2 | 0.0 | 78.2 | 73.9 | 68.0 | 72.0 | 79.0 | 0.1 |
| 2.0 | 82.0 | 0.9 | 82.9 | 77.5 | 72.2 | 75.9 | 82.9 | 0.4 |
| 2.5 | 84.7 | 1.2 | 85.9 | 80.3 | 74.9 | 78.5 | 85.5 | 0.4 |
| 3.0 | 87.0 | 0.9 | 87.9 | 81.9 | 76.3 | 80.2 | 87.2 | 0.4 |
| 3.5 | 87.8 | 0.0 | 87.8 | 83.0 | 77.8 | 81.2 | 88.2 | 0.1 |
| 4.0 | 88.7 | 0.0 | 88.7 | 83.8 | 78.8 | 82.1 | 89.1 | 0.1 |
| 4.5 | 88.5 | 0.0 | 88.5 | 84.2 | 78.6 | 81.9 | 88.9 | 0.1 |
| 5.0 | 88.1 | 0.0 | 88.1 | 84.5 | 77.8 | 81.4 | 88.4 | 0.1 |
| 5.5 | 87.3 | 0.0 | 87.3 | 84.9 | 76.7 | 80.7 | 87.7 | 0.1 |
| 6.0 | 87.3 | 1.2 | 88.5 | 85.3 | 76.1 | 80.5 | 87.5 | 1.1 |
| 6.5 | 87.4 | 1.2 | 88.6 | 85.9 | 76.1 | 80.8 | 87.8 | 1.1 |
| 7.0 | 87.1 | 0.6 | 87.7 | 86.5 | 75.6 | 80.8 | 87.8 | 0.2 |
| 7.5 | 87.0 | 0.8 | 87.8 | 87.1 | 75.2 | 80.9 | 87.9 | 0.2 |
| 8.0 | 87.0 | 0.8 | 87.8 | 87.5 | 74.6 | 80.7 | 87.7 | 0.4 |
| 8.5 | 87.2 | 0.9 | 88.1 | 87.9 | 74.0 | 80.7 | 87.7 | 0.4 |
| 9.0 | 87.3 | 0.9 | 88.2 | 88.4 | 73.6 | 80.8 | 87.8 | 0.4 |
| 9.5 | 87.2 | 0.8 | 88.0 | 88.7 | 73.4 | 80.7 | 87.7 | 0.4 |
| 10.0 | 87.7 | 0.7 | 88.4 | 89.0 | 74.1 | 81.2 | 88.2 | 0.4 |
| 10.5 | 88.1 | 1.0 | 89.1 | 89.0 | 75.4 | 81.8 | 88.8 | 1.4 |
| 11.0 | 88.3 | 1.1 | 89.4 | 89.1 | 76.0 | 82.2 | 89.2 | 1.4 |
| 11.5 | 89.0 | 0.7 | 89.7 | 89.2 | 76.5 | 82.7 | 89.7 | 0.4 |
| 12.0 | 89.3 | 0.6 | 89.9 | 89.2 | 76.7 | 82.8 | 89.8 | 0.4 |
| 12.5 | 89.8 | 0.8 | 90.6 | 89.2 | 77.4 | 83.2 | 90.2 | 0.8 |
| 13.0 | 90.5 | 1.0 | 91.5 | 89.5 | 78.5 | 84.0 | 91.0 | 0.8 |
| 13.5 | 91.2 | 1.2 | 92.4 | 89.4 | 79.0 | 84.3 | 91.3 | 1.3 |
| 14.0 | 91.0 | 1.3 | 92.3 | 89.7 | 78.7 | 84.2 | 91.2 | 1.3 |
| 14.5 | 90.8 | 1.1 | 91.9 | 89.9 | 78.5 | 84.2 | 91.2 | 1.3 |
| 15.0 | 91.1 | 0.9 | 92.0 | 89.9 | 78.4 | 84.2 | 91.2 | 0.4 |
| 15.5 | 91.7 | 1.1 | 92.8 | 89.6 | 78.9 | 84.5 | 91.5 | 0.8 |
| 16.0 | 91.7 | 0.9 | 92.6 | 89.2 | 78.8 | 84.4 | 91.4 | 0.4 |
| 16.5 | 91.7 | 1.0 | 92.7 | 89.2 | 78.6 | 84.3 | 91.3 | 0.8 |
| 17.0 | 92.7 | 0.9 | 93.6 | 89.3 | 79.6 | 85.2 | 92.2 | 0.8 |
| 17.5 | 94.2 | 0.8 | 95.0 | 89.6 | 81.1 | 86.5 | 93.5 | 0.4 |
| 18.0 | 94.8 | 1.3 | 96.1 | 90.0 | 81.9 | 87.4 | 94.4 | 1.1 |
| 18.5 | 95.3 | 1.3 | 96.6 | 90.4 | 82.7 | 88.1 | 95.1 | 1.1 |
| 19.0 | 95.6 | 1.0 | 96.6 | 90.8 | 83.1 | 88.5 | 95.5 | 0.7 |
| 19.5 | 96.2 | 1.2 | 97.4 | 91.4 | 83.5 | 89.0 | 96.0 | 0.7 |
| 20.0 | 96.9 | 1.2 | 98.1 | 92.2 | 84.1 | 89.8 | 96.8 | 0.7 |
| 20.5 | 97.6 | 0.7 | 98.3 | 92.8 | 84.7 | 90.3 | 97.3 | 0.7 |
| 21.0 | 98.0 | 0.8 | 98.8 | 93.4 | 85.1 | 90.9 | 97.9 | 0.7 |
| 21.5 | 98.1 | 0.6 | 98.7 | 93.9 | 85.4 | 91.2 | 98.2 | 2.4 |
| 22.0 | 98.1 | 0.6 | 98.7 | 94.4 | 85.7 | 91.5 | 98.5 | 0.9 |
| 22.5 | 98.2 | 0.6 | 98.8 | 94.9 | 85.6 | 91.7 | 98.7 | 2.4 |
| 23.0 | 98.5 | 0.9 | 99.4 | 95.1 | 85.5 | 91.7 | 98.7 | 0.4 |
| 23.5 | 98.5 | 1.3 | 99.8 | 95.2 | 85.2 | 91.5 | 98.5 | 0.4 |
| 24.0 | 98.1 | 1.4 | 99.5 | 95.1 | 84.5 | 91.1 | 98.1 | 0.4 |
| 24.5 | 97.9 | 1.2 | 99.1 | 95.0 | 83.8 | 90.7 | 97.7 | 0.4 |
| 25.0 | 97.5 | 1.0 | 98.5 | 94.6 | 83.4 | 90.3 | 97.3 | 0.4 |
| 25.5 | 97.0 | 0.7 | 97.7 | 93.8 | 83.0 | 89.7 | 96.7 | 0.8 |
| 26.0 | 96.5 | 0.7 | 97.2 | 92.7 | 82.7 | 89.1 | 96.1 | 2.4 |
| 26.5 | 95.6 | 0.8 | 96.4 | 91.1 | 82.4 | 88.4 | 95.4 | 2.4 |
| 27.0 | 94.7 | 0.8 | 95.5 | 89.9 | 82.0 | 87.6 | 94.6 | 2.4 |
| 27.5 | 93.8 | 1.0 | 94.8 | 89.0 | 81.4 | 86.9 | 93.9 | 1.5 |
| 28.0 | 93.6 | 1.1 | 94.7 | 88.3 | 81.3 | 86.5 | 93.5 | 1.5 |
| 28.5 | 93.2 | 1.3 | 94.5 | 87.6 | 81.1 | 86.1 | 93.1 | 1.5 |
| 29.0 | 93.0 | 1.3 | 94.3 | 87.0 | 80.6 | 85.8 | 92.8 | 1.5 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 92.2 | 1.3 | 93.5 | 86.8 | 79.9 | 85.1 | 92.1 | 1.5 |
| 30.0 | 91.5 | 1.2 | 92.7 | 86.7 | 79.0 | 84.5 | 91.5 | 1.5 |
| 30.5 | 91.1 | 1.0 | 92.1 | 86.4 | 78.9 | 84.2 | 91.2 | 1.5 |
| 31.0 | 90.4 | 1.3 | 91.7 | 86.1 | 78.4 | 83.5 | 90.5 | 1.5 |
| 31.5 | 90.1 | 1.1 | 91.2 | 86.5 | 78.1 | 83.3 | 90.3 | 1.1 |
| 32.0 | 89.9 | 1.0 | 90.9 | 86.6 | 77.9 | 83.1 | 90.1 | 1.5 |
| 32.5 | 89.4 | 1.4 | 90.8 | 86.6 | 77.4 | 82.7 | 89.7 | 1.5 |
| 33.0 | 89.0 | 1.6 | 90.6 | 86.4 | 77.0 | 82.3 | 89.3 | 1.5 |
| 33.5 | 88.7 | 1.2 | 90.1 | 86.8 | 76.8 | 82.2 | 89.2 | 1.5 |
| 34.0 | 89.0 | 0.8 | 89.8 | 86.8 | 76.7 | 82.2 | 89.2 | 0.3 |
| 34.5 | 88.7 | 0.9 | 89.8 | 86.6 | 76.3 | 81.9 | 88.9 | 0.3 |
| 35.0 | 88.7 | 1.4 | 90.1 | 86.6 | 76.2 | 81.7 | 88.7 | 1.5 |
| 35.5 | 88.6 | 1.5 | 90.1 | 86.6 | 76.1 | 81.6 | 88.6 | 1.5 |
| 36.0 | 88.4 | 1.5 | 89.9 | 86.6 | 75.9 | 81.4 | 88.4 | 1.5 |
| 36.5 | 88.1 | 1.3 | 89.4 | 86.1 | 75.5 | 81.2 | 88.2 | 1.5 |
| 37.0 | 87.8 | 1.3 | 89.1 | 85.5 | 75.5 | 81.1 | 88.1 | 0.6 |
| 37.5 | 87.2 | 1.4 | 88.6 | 84.9 | 74.9 | 80.6 | 87.6 | 0.6 |
| 38.0 | 87.4 | 1.6 | 89.0 | 85.3 | 74.7 | 80.7 | 87.7 | 0.6 |
| 38.5 | 87.6 | 1.5 | 89.1 | 85.4 | 75.0 | 80.9 | 87.9 | 0.6 |
| 39.0 | 87.3 | 1.4 | 88.7 | 85.3 | 75.2 | 80.9 | 87.9 | 0.6 |
| 39.5 | 87.3 | 1.3 | 88.6 | 85.4 | 75.2 | 80.8 | 87.8 | 0.6 |
| 40.0 | 87.2 | 1.3 | 88.5 | 84.8 | 75.9 | 80.8 | 87.8 | 0.6 |

MAXIMUM VALUES IN BANDS, PNLC =100.9

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 86.8 | 82.7 | 84.7 | 90.8 | 89.0 | 88.6 | 89.2 | 86.0 | 85.0 | 82.2 |
| 78.1 | 76.2 | 76.3 | 73.5 | 74.3 | 71.3 | 69.7 | 67.7 | 65.2 | 61.4 |
| 57.7 | 53.3 | 46.4 | 43.7 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 76.3 | 72.3 | 79.5 | 90.4 | 88.2 | 86.2 | 82.5 | 86.0 | 81.9 | 79.3 |
| 75.7 | 76.0 | 74.9 | 73.5 | 73.3 | 71.0 | 69.0 | 66.3 | 62.7 | 59.4 |
| 54.8 | 50.0 | 45.0 | 43.3 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 33.0 | 1.6 | | | | | | |
| PNL | 23.0 | 98.5 | 25.0 | 108.4 | 38.5 | 108.9 | 100.7 | 99.6 |
| PNLT | 23.5 | 99.8 | 22.5 | 109.3 | 38.5 | 109.8 | 101.6 | 100.9 |
| A-LEV | 22.0 | 85.7 | 26.0 | 95.6 | 39.5 | 96.1 | 88.1 | 86.9 |
| N-LEV | 22.5 | 98.7 | 25.0 | 108.4 | 39.0 | 108.9 | 100.9 | 99.8 |

I PNL = 99.3

MAN ACOUSTICS, EVENT #15

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 81.4 | 0.6 | 82.0 | 78.6 | 69.0 | 74.5 | 81.5 | 0.4 |
| 0.5 | 83.5 | 0.0 | 83.5 | 81.1 | 70.8 | 76.5 | 83.5 | 0.1 |
| 1.0 | 84.9 | 0.6 | 85.5 | 82.8 | 72.2 | 77.9 | 84.9 | 0.4 |
| 1.5 | 85.5 | 0.0 | 85.5 | 83.4 | 73.1 | 78.6 | 85.6 | 0.1 |
| 2.0 | 85.5 | 0.0 | 85.5 | 83.7 | 73.3 | 78.8 | 85.8 | 0.1 |
| 2.5 | 85.1 | 0.0 | 85.1 | 84.1 | 72.7 | 78.5 | 85.5 | 0.1 |
| 3.0 | 84.6 | 0.0 | 84.6 | 84.4 | 72.2 | 78.3 | 85.3 | 0.1 |
| 3.5 | 84.2 | 0.0 | 84.2 | 84.3 | 71.8 | 77.9 | 84.9 | 0.1 |
| 4.0 | 84.0 | 0.0 | 84.0 | 84.4 | 71.6 | 77.7 | 84.7 | 0.1 |
| 4.5 | 84.1 | 0.0 | 84.1 | 84.8 | 71.2 | 77.8 | 84.8 | 0.1 |
| 5.0 | 84.1 | 0.0 | 84.1 | 85.1 | 70.9 | 77.9 | 84.9 | 0.1 |
| 5.5 | 84.3 | 0.0 | 84.3 | 85.2 | 71.0 | 78.0 | 85.0 | 0.1 |
| 6.0 | 84.3 | 0.0 | 84.3 | 85.5 | 70.9 | 78.1 | 85.1 | 0.1 |
| 6.5 | 84.4 | 0.0 | 84.4 | 85.6 | 71.0 | 78.2 | 85.2 | 0.1 |
| 7.0 | 84.6 | 0.6 | 85.2 | 85.8 | 71.2 | 78.3 | 85.3 | 0.3 |
| 7.5 | 84.3 | 0.6 | 84.9 | 85.7 | 70.7 | 78.0 | 85.0 | 0.3 |
| 8.0 | 84.8 | 0.8 | 85.6 | 85.5 | 71.3 | 78.3 | 85.3 | 0.3 |
| 8.5 | 86.1 | 0.8 | 86.9 | 85.4 | 72.8 | 79.1 | 86.1 | 0.3 |
| 9.0 | 86.7 | 0.8 | 87.5 | 85.4 | 73.7 | 79.5 | 86.5 | 0.3 |
| 9.5 | 86.9 | 0.9 | 87.8 | 85.5 | 74.0 | 79.6 | 86.6 | 0.3 |
| 10.0 | 87.0 | 1.1 | 88.1 | 85.7 | 73.9 | 79.8 | 86.8 | 0.3 |
| 10.5 | 86.7 | 1.3 | 88.0 | 85.7 | 73.8 | 79.6 | 86.6 | 1.3 |
| 11.0 | 85.8 | 1.6 | 87.4 | 85.7 | 73.2 | 79.0 | 86.0 | 1.3 |
| 11.5 | 84.8 | 1.2 | 86.0 | 85.6 | 72.2 | 78.4 | 85.4 | 0.3 |
| 12.0 | 84.6 | 1.2 | 85.8 | 85.4 | 71.8 | 78.1 | 85.1 | 0.3 |
| 12.5 | 84.7 | 1.2 | 85.9 | 85.0 | 72.2 | 78.3 | 85.3 | 0.3 |
| 13.0 | 85.3 | 1.2 | 86.5 | 84.9 | 73.4 | 78.9 | 85.9 | 0.3 |
| 13.5 | 86.2 | 1.2 | 87.4 | 84.9 | 73.8 | 79.4 | 86.4 | 0.3 |
| 14.0 | 86.4 | 1.2 | 87.6 | 84.7 | 74.2 | 79.6 | 86.6 | 0.3 |
| 14.5 | 86.1 | 1.2 | 87.3 | 84.5 | 74.3 | 79.5 | 86.5 | 0.3 |
| 15.0 | 85.5 | 1.5 | 87.0 | 84.6 | 73.7 | 79.2 | 86.2 | 0.3 |
| 15.5 | 86.3 | 1.3 | 87.6 | 85.0 | 74.0 | 79.8 | 86.8 | 0.3 |
| 16.0 | 86.8 | 1.2 | 88.0 | 85.4 | 74.3 | 80.3 | 87.3 | 0.3 |
| 16.5 | 87.1 | 1.3 | 88.4 | 85.9 | 74.5 | 80.5 | 87.5 | 0.3 |
| 17.0 | 86.8 | 1.4 | 88.2 | 85.9 | 74.1 | 80.3 | 87.3 | 0.3 |
| 17.5 | 86.9 | 1.5 | 88.4 | 86.0 | 74.0 | 80.4 | 87.4 | 0.3 |
| 18.0 | 87.2 | 1.4 | 88.6 | 86.0 | 74.3 | 80.5 | 87.5 | 0.3 |
| 18.5 | 87.3 | 1.3 | 88.6 | 85.7 | 74.6 | 80.6 | 87.6 | 0.3 |
| 19.0 | 87.4 | 1.0 | 88.4 | 85.5 | 74.9 | 80.8 | 87.8 | 0.3 |
| 19.5 | 87.6 | 0.8 | 88.4 | 85.7 | 74.8 | 80.8 | 87.8 | 0.3 |
| 20.0 | 87.9 | 0.9 | 88.8 | 86.1 | 75.0 | 81.0 | 88.0 | 0.3 |
| 20.5 | 88.0 | 1.0 | 89.0 | 86.1 | 75.5 | 81.3 | 88.3 | 0.3 |
| 21.0 | 88.2 | 0.9 | 89.1 | 86.0 | 76.1 | 81.6 | 88.6 | 0.3 |
| 21.5 | 88.2 | 2.0 | 90.2 | 85.9 | 76.3 | 81.7 | 88.7 | 1.1 |
| 22.0 | 88.5 | 0.8 | 89.3 | 85.8 | 76.5 | 81.7 | 88.7 | 0.3 |
| 22.5 | 88.3 | 0.9 | 89.2 | 85.8 | 76.3 | 81.6 | 88.6 | 0.3 |
| 23.0 | 88.2 | 1.1 | 89.3 | 85.8 | 76.2 | 81.5 | 88.5 | 1.4 |
| 23.5 | 88.2 | 0.8 | 89.0 | 85.7 | 76.3 | 81.4 | 88.4 | 0.3 |
| 24.0 | 88.2 | 1.1 | 89.3 | 85.6 | 76.4 | 81.4 | 88.4 | 1.4 |
| 24.5 | 88.6 | 1.0 | 89.6 | 85.6 | 77.0 | 81.8 | 88.8 | 1.4 |
| 25.0 | 89.0 | 1.0 | 90.0 | 86.0 | 77.5 | 82.2 | 89.2 | 1.4 |
| 25.5 | 89.3 | 0.6 | 89.9 | 86.2 | 77.8 | 82.4 | 89.4 | 0.5 |
| 26.0 | 89.4 | 0.5 | 89.9 | 86.2 | 78.1 | 82.5 | 89.5 | 0.5 |
| 26.5 | 89.8 | 1.3 | 91.1 | 86.3 | 78.7 | 83.0 | 90.0 | 1.4 |
| 27.0 | 90.6 | 1.0 | 91.6 | 86.7 | 79.5 | 83.7 | 90.7 | 1.4 |
| 27.5 | 91.1 | 0.8 | 91.9 | 87.1 | 80.0 | 84.2 | 91.2 | 0.9 |
| 28.0 | 91.3 | 0.7 | 92.0 | 87.0 | 80.2 | 84.5 | 91.5 | 0.9 |
| 28.5 | 91.4 | 1.2 | 92.6 | 86.9 | 80.3 | 84.6 | 91.6 | 1.3 |
| 29.0 | 91.7 | 1.3 | 93.0 | 87.2 | 80.7 | 85.0 | 92.0 | 1.3 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 92.1 | 1.4 | 93.5 | 87.3 | 81.0 | 85.4 | 92.4 | 1.3 |
| 30.0 | 92.4 | 1.3 | 93.7 | 87.4 | 81.3 | 85.6 | 92.6 | 1.3 |
| 30.5 | 92.4 | 1.1 | 93.5 | 87.2 | 81.3 | 85.6 | 92.6 | 1.3 |
| 31.0 | 92.6 | 1.1 | 93.7 | 87.4 | 81.3 | 85.8 | 92.8 | 1.6 |
| 31.5 | 92.8 | 0.7 | 93.5 | 87.5 | 81.5 | 86.1 | 93.1 | 0.3 |
| 32.0 | 93.1 | 0.9 | 94.0 | 87.6 | 81.7 | 86.4 | 93.4 | 0.3 |
| 32.5 | 93.4 | 0.9 | 94.3 | 87.8 | 81.7 | 86.6 | 93.6 | 0.3 |
| 33.0 | 93.8 | 0.9 | 94.7 | 88.0 | 81.8 | 86.7 | 93.7 | 0.3 |
| 33.5 | 94.1 | 0.7 | 94.8 | 88.2 | 81.9 | 86.9 | 93.9 | 0.3 |
| 34.0 | 94.4 | 0.8 | 95.2 | 88.4 | 82.1 | 87.2 | 94.2 | 0.3 |
| 34.5 | 94.7 | 0.8 | 95.7 | 88.7 | 82.5 | 87.7 | 94.7 | 0.3 |
| 35.0 | 95.6 | 0.8 | 96.4 | 89.3 | 82.9 | 88.2 | 95.2 | 0.3 |
| 35.5 | 96.0 | 0.9 | 96.9 | 89.7 | 83.1 | 88.4 | 95.4 | 0.8 |
| 36.0 | 96.5 | 1.0 | 97.5 | 90.2 | 83.4 | 88.7 | 95.7 | 0.8 |
| 36.5 | 96.8 | 1.0 | 97.8 | 90.5 | 83.6 | 88.9 | 95.9 | 0.8 |
| 37.0 | 97.0 | 1.0 | 98.0 | 90.6 | 83.8 | 89.1 | 96.1 | 0.8 |
| 37.5 | 97.4 | 1.0 | 98.4 | 91.1 | 84.2 | 89.5 | 96.5 | 0.8 |
| 38.0 | 97.7 | 0.9 | 98.6 | 91.6 | 84.6 | 90.0 | 97.0 | 0.8 |
| 38.5 | 97.9 | 0.8 | 98.7 | 92.0 | 85.1 | 90.4 | 97.4 | 0.8 |
| 39.0 | 98.0 | 1.0 | 99.0 | 92.6 | 85.7 | 91.0 | 98.0 | 2.3 |
| 39.5 | 98.4 | 0.0 | 98.4 | 93.3 | 86.1 | 91.4 | 98.4 | 0.1 |
| 40.0 | 98.9 | 0.6 | 99.5 | 93.9 | 86.2 | 91.7 | 98.7 | 0.6 |
| 40.5 | 99.0 | 0.7 | 99.7 | 94.2 | 86.3 | 91.8 | 98.8 | 0.4 |
| 41.0 | 98.9 | 0.6 | 99.5 | 94.3 | 86.3 | 91.9 | 98.9 | 0.4 |
| 41.5 | 99.4 | 0.6 | 100.0 | 94.5 | 86.5 | 92.2 | 99.2 | 0.8 |
| 42.0 | 99.9 | 0.8 | 100.7 | 94.6 | 86.7 | 92.3 | 99.3 | 0.8 |
| 42.5 | 100.1 | 0.7 | 100.8 | 94.7 | 86.9 | 92.5 | 99.5 | 0.8 |
| 43.0 | 100.3 | 1.0 | 101.3 | 94.8 | 87.0 | 92.6 | 99.6 | 0.8 |
| 43.5 | 100.6 | 1.1 | 101.7 | 95.0 | 86.9 | 92.7 | 99.7 | 0.8 |
| 44.0 | 100.6 | 1.2 | 101.8 | 95.0 | 86.7 | 92.7 | 99.7 | 0.8 |
| 44.5 | 100.2 | 1.1 | 101.3 | 94.7 | 86.6 | 92.7 | 99.7 | 0.8 |
| 45.0 | 99.6 | 0.7 | 100.3 | 94.3 | 86.4 | 92.5 | 99.5 | 0.8 |
| 45.5 | 99.4 | 0.6 | 100.0 | 93.7 | 86.2 | 92.2 | 99.2 | 0.6 |
| 46.0 | 99.0 | 1.1 | 100.1 | 92.8 | 85.6 | 91.8 | 98.8 | 1.9 |
| 46.5 | 98.3 | 0.5 | 98.8 | 92.2 | 85.1 | 91.2 | 98.2 | 0.6 |
| 47.0 | 98.0 | 1.3 | 99.3 | 91.4 | 84.6 | 90.7 | 97.7 | 1.9 |
| 47.5 | 97.3 | 1.2 | 98.5 | 90.9 | 83.9 | 90.2 | 97.2 | 1.9 |
| 48.0 | 96.8 | 1.0 | 97.8 | 90.6 | 83.7 | 89.8 | 96.8 | 1.9 |
| 48.5 | 96.5 | 1.0 | 97.5 | 90.3 | 83.3 | 89.3 | 96.3 | 1.9 |
| 49.0 | 96.3 | 0.6 | 96.9 | 90.0 | 83.0 | 88.9 | 95.9 | 0.3 |
| 49.5 | 95.9 | 1.1 | 97.0 | 89.5 | 82.8 | 88.6 | 95.6 | 1.9 |
| 50.0 | 95.2 | 1.1 | 96.3 | 88.8 | 82.4 | 88.2 | 95.2 | 1.9 |
| 50.5 | 94.7 | 1.3 | 96.0 | 88.0 | 81.8 | 87.7 | 94.7 | 1.9 |
| 51.0 | 94.0 | 1.4 | 95.4 | 87.0 | 81.1 | 87.0 | 94.0 | 1.9 |
| 51.5 | 92.9 | 1.0 | 93.9 | 86.4 | 80.3 | 86.0 | 93.0 | 2.4 |
| 52.0 | 92.3 | 1.1 | 93.4 | 86.1 | 79.6 | 85.4 | 92.4 | 2.4 |

MAXIMUM VALUES IN BANDS, PNLC =101.8

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 83.2 | 79.2 | 82.7 | 87.3 | 88.8 | 88.5 | 85.4 | 88.3 | 84.6 | 83.9 |
| 79.9 | 77.5 | 77.2 | 76.0 | 76.0 | 75.1 | 71.3 | 70.8 | 72.3 | 67.2 |
| 64.5 | 62.7 | 58.8 | 53.7 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72.5 | 72.1 | 82.4 | 87.1 | 88.5 | 86.2 | 80.7 | 88.0 | 80.6 | 82.0 |
| 78.8 | 77.0 | 76.1 | 74.7 | 74.6 | 74.5 | 71.0 | 69.7 | 69.0 | 66.5 |
| 64.2 | 62.4 | 58.8 | 53.7 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M | A-100 |
|---|---|---|---|---|---|---|---|---|---|
| P.T. | 21.5 | 2.0 | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PNL | 43.5 | 100.6 | 25.0 | 111.0 | 52.0 | 111.4 | 102.8 | 103.0 |
| PNLT | 44.0 | 101.8 | 25.0 | 111.9 | 52.0 | 112.3 | 104.0 | 104.2 |
| A-LEV | 43.0 | 87.0 | 27.5 | 98.2 | 52.0 | 98.6 | 89.6 | 89.4 |
| N-LEV | 43.5 | 99.7 | 26.0 | 110.7 | 52.0 | 111.1 | 102.1 | 102.1 |

EPNL =101.9

MAN ACOUSTICS, EVENT #16

| T | PNL | P.T. | PNLT | DA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 82.5 | 1.2 | 83.7 | 81.6 | 68.8 | 75.8 | 82.8 | 0.3 |
| 0.5 | 83.5 | 1.2 | 84.7 | 81.8 | 70.3 | 76.6 | 83.6 | 0.3 |
| 1.0 | 84.7 | 2.1 | 86.8 | 81.7 | 71.0 | 77.3 | 84.3 | 1.6 |
| 1.5 | 84.7 | 1.9 | 86.6 | 81.6 | 70.9 | 77.4 | 84.4 | 1.6 |
| 2.0 | 84.6 | 1.7 | 86.3 | 81.6 | 70.7 | 77.4 | 84.4 | 1.6 |
| 2.5 | 84.9 | 1.5 | 86.4 | 82.0 | 71.1 | 77.7 | 84.7 | 1.6 |
| 3.0 | 85.1 | 1.2 | 86.3 | 82.8 | 71.2 | 78.1 | 85.1 | 0.3 |
| 3.5 | 85.0 | 1.3 | 86.3 | 82.6 | 71.3 | 78.2 | 85.2 | 0.3 |
| 4.0 | 84.9 | 1.4 | 86.3 | 82.5 | 71.3 | 78.2 | 85.2 | 0.3 |
| 4.5 | 85.8 | 1.3 | 87.1 | 82.4 | 72.4 | 78.9 | 85.9 | 0.3 |
| 5.0 | 85.5 | 1.3 | 86.8 | 82.6 | 72.0 | 78.7 | 85.7 | 0.3 |
| 5.5 | 84.7 | 1.5 | 86.2 | 83.0 | 70.9 | 78.2 | 85.2 | 0.3 |
| 6.0 | 84.3 | 1.5 | 85.8 | 83.3 | 70.4 | 77.9 | 84.9 | 0.3 |
| 6.5 | 84.5 | 1.4 | 85.9 | 83.7 | 70.4 | 77.9 | 84.9 | 0.3 |
| 7.0 | 85.0 | 1.5 | 86.5 | 84.1 | 70.8 | 78.2 | 85.2 | 1.6 |
| 7.5 | 85.5 | 1.8 | 87.3 | 84.2 | 71.4 | 78.6 | 85.6 | 1.6 |
| 8.0 | 86.0 | 1.9 | 87.9 | 83.5 | 72.1 | 79.0 | 86.0 | 1.6 |
| 8.5 | 86.4 | 1.6 | 88.0 | 83.3 | 72.9 | 79.7 | 86.7 | 1.6 |
| 9.0 | 87.0 | 1.5 | 88.5 | 83.4 | 73.7 | 80.5 | 87.5 | 1.6 |
| 9.5 | 87.4 | 1.3 | 88.7 | 83.1 | 74.4 | 81.2 | 88.2 | 1.6 |
| 10.0 | 87.8 | 1.2 | 89.0 | 83.2 | 75.0 | 81.9 | 88.9 | 0.3 |
| 10.5 | 88.0 | 1.1 | 89.1 | 83.4 | 75.1 | 82.1 | 89.1 | 0.3 |
| 11.0 | 88.0 | 1.1 | 89.1 | 84.8 | 75.0 | 81.7 | 88.7 | 1.6 |
| 11.5 | 88.2 | 1.1 | 89.3 | 85.5 | 74.8 | 81.7 | 88.7 | 1.6 |
| 12.0 | 88.7 | 1.3 | 90.0 | 85.4 | 75.2 | 82.1 | 89.1 | 1.6 |
| 12.5 | 88.7 | 1.2 | 89.9 | 85.9 | 75.0 | 82.2 | 89.2 | 1.6 |
| 13.0 | 88.5 | 1.1 | 89.6 | 86.7 | 74.4 | 81.9 | 88.9 | 0.3 |
| 13.5 | 88.5 | 1.0 | 89.5 | 87.1 | 74.4 | 81.8 | 88.8 | 0.3 |
| 14.0 | 89.3 | 1.0 | 90.3 | 87.2 | 75.1 | 82.5 | 89.5 | 0.3 |
| 14.5 | 90.4 | 1.3 | 91.7 | 86.9 | 76.1 | 83.6 | 90.6 | 2.3 |
| 15.0 | 91.2 | 1.6 | 92.8 | 86.6 | 77.1 | 84.5 | 91.5 | 1.6 |
| 15.5 | 91.9 | 1.5 | 93.4 | 87.0 | 77.5 | 85.1 | 92.1 | 2.3 |
| 16.0 | 92.3 | 1.8 | 94.1 | 87.4 | 78.0 | 85.6 | 92.6 | 1.6 |
| 16.5 | 92.7 | 1.5 | 94.2 | 87.7 | 78.3 | 86.0 | 93.0 | 1.6 |
| 17.0 | 93.5 | 1.5 | 95.0 | 88.8 | 79.0 | 86.7 | 93.7 | 2.3 |
| 17.5 | 94.5 | 1.3 | 95.8 | 89.5 | 79.6 | 87.4 | 94.4 | 1.6 |
| 18.0 | 95.4 | 1.4 | 96.8 | 88.9 | 80.4 | 88.2 | 95.2 | 1.6 |
| 18.5 | 96.4 | 1.0 | 97.4 | 89.3 | 81.3 | 89.1 | 96.1 | 1.6 |
| 19.0 | 97.6 | 1.1 | 98.7 | 91.3 | 82.6 | 90.3 | 97.3 | 1.6 |
| 19.5 | 99.4 | 0.6 | 100.0 | 92.5 | 84.3 | 91.9 | 98.9 | 0.4 |
| 20.0 | 100.3 | 0.0 | 100.3 | 91.6 | 86.4 | 92.9 | 99.9 | 0.1 |
| 20.5 | 100.0 | 1.2 | 101.2 | 90.5 | 86.3 | 92.5 | 99.5 | 1.5 |
| 21.0 | 99.2 | 1.3 | 100.5 | 89.2 | 85.4 | 91.7 | 98.7 | 1.5 |
| 21.5 | 98.1 | 1.3 | 99.4 | 87.9 | 84.7 | 90.8 | 97.8 | 1.5 |
| 22.0 | 96.9 | 1.7 | 98.6 | 86.8 | 83.7 | 89.8 | 96.8 | 1.5 |
| 22.5 | 95.6 | 1.7 | 97.3 | 85.9 | 82.6 | 88.6 | 95.6 | 1.5 |
| 23.0 | 94.2 | 1.6 | 95.8 | 85.1 | 81.5 | 87.3 | 94.3 | 1.5 |
| 23.5 | 93.0 | 1.8 | 94.8 | 84.7 | 80.8 | 86.3 | 93.3 | 1.5 |
| 24.0 | 91.8 | 1.7 | 93.5 | 84.2 | 80.0 | 85.3 | 92.3 | 1.5 |
| 24.5 | 90.9 | 1.8 | 92.7 | 83.8 | 79.6 | 84.5 | 91.5 | 1.5 |
| 25.0 | 90.5 | 1.9 | 92.4 | 83.0 | 79.2 | 83.9 | 90.9 | 1.5 |
| 25.5 | 90.0 | 1.8 | 91.8 | 82.4 | 78.8 | 83.2 | 90.2 | 1.5 |
| 26.0 | 89.4 | 1.6 | 91.0 | 82.3 | 78.2 | 82.7 | 89.7 | 1.5 |
| 26.5 | 88.7 | 1.4 | 90.1 | 82.1 | 77.4 | 81.9 | 88.9 | 1.5 |
| 27.0 | 87.8 | 1.3 | 89.1 | 81.9 | 76.5 | 80.9 | 87.9 | 1.5 |
| 27.5 | 87.0 | 1.2 | 88.2 | 81.5 | 75.6 | 80.1 | 87.1 | 1.5 |
| 28.0 | 86.3 | 1.1 | 87.4 | 81.3 | 74.8 | 79.6 | 86.6 | 1.5 |
| 28.5 | 85.6 | 1.1 | 86.7 | 81.0 | 73.9 | 78.9 | 85.9 | 1.5 |
| 29.0 | 85.3 | 0.7 | 86.0 | 80.8 | 73.5 | 78.6 | 85.6 | 0.4 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 84.9 | 1.0 | 85.9 | 80.8 | 73.3 | 78.4 | 85.4 | 0.4 |
| 30.0 | 84.8 | 1.2 | 86.0 | 80.7 | 73.0 | 78.1 | 85.1 | 0.4 |

MAXIMUM VALUES IN BANDS, PNLC =101.1

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 86.3 | 78.7 | 82.0 | 86.2 | 85.0 | 84.0 | 78.2 | 80.0 | 77.4 | 76.1 |
| 74.7 | 75.7 | 75.4 | 75.3 | 79.1 | 77.1 | 74.5 | 74.0 | 74.1 | 71.6 |
| 70.1 | 70.5 | 70.4 | 64.5 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77.5 | 75.5 | 78.1 | 81.6 | 81.3 | 81.1 | 78.2 | 77.2 | 76.2 | 75.5 |
| 74.7 | 75.7 | 75.3 | 74.7 | 79.1 | 76.5 | 73.9 | 73.8 | 74.1 | 70.7 |
| 68.8 | 69.3 | 66.7 | 63.0 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 1.0 | 2.1 | | | | | | |
| PNL | 20.0 | 100.3 | 11.5 | 106.4 | 30.0 | 107.2 | 99.1 | 100.3 |
| PNLT | 20.5 | 101.2 | 12.0 | 107.7 | 30.0 | 108.4 | 100.2 | 101.2 |
| A-LEV | 20.0 | 86.4 | 13.0 | 92.9 | 30.0 | 93.6 | 85.8 | 86.4 |
| N-LEV | 20.0 | 99.9 | 12.0 | 106.3 | 30.0 | 107.1 | 98.9 | 99.9 |

EPNL = 97.7

MAN ACOUSTICS, EVENT #17

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 86.1 | 0.6 | 86.7 | 86.7 | 71.3 | 79.5 | 86.5 | 0.4 |
| 0.5 | 87.0 | 0.0 | 87.0 | 87.7 | 72.2 | 80.7 | 87.7 | 0.1 |
| 1.0 | 88.0 | 0.0 | 88.0 | 88.4 | 73.1 | 81.6 | 88.6 | 0.1 |
| 1.5 | 88.8 | 0.0 | 88.8 | 88.9 | 74.0 | 82.5 | 89.5 | 0.1 |
| 2.0 | 89.4 | 0.0 | 89.4 | 89.4 | 74.7 | 83.0 | 90.0 | 0.1 |
| 2.5 | 89.7 | 0.0 | 89.7 | 89.6 | 75.3 | 83.3 | 90.3 | 0.1 |
| 3.0 | 90.2 | 0.0 | 90.2 | 89.7 | 75.9 | 83.5 | 90.5 | 0.1 |
| 3.5 | 90.7 | 0.0 | 90.7 | 90.0 | 76.4 | 83.9 | 90.9 | 0.1 |
| 4.0 | 91.1 | 0.0 | 91.1 | 90.2 | 76.8 | 84.2 | 91.2 | 0.1 |
| 4.5 | 91.6 | 0.5 | 92.1 | 90.4 | 77.2 | 84.5 | 91.5 | 0.6 |
| 5.0 | 91.4 | 0.0 | 91.4 | 90.4 | 77.1 | 84.5 | 91.5 | 0.1 |
| 5.5 | 91.5 | 0.0 | 91.5 | 90.6 | 77.2 | 84.7 | 91.7 | 0.1 |
| 6.0 | 91.6 | 0.0 | 91.6 | 91.1 | 77.3 | 85.0 | 92.0 | 0.1 |
| 6.5 | 92.3 | 0.0 | 92.3 | 91.3 | 77.8 | 85.3 | 92.3 | 0.1 |
| 7.0 | 92.8 | 0.0 | 92.8 | 91.5 | 78.4 | 85.6 | 92.6 | 0.1 |
| 7.5 | 92.6 | 0.0 | 92.6 | 91.2 | 78.2 | 85.4 | 92.4 | 0.1 |
| 8.0 | 92.4 | 0.0 | 92.4 | 91.1 | 77.8 | 85.1 | 92.1 | 0.1 |
| 8.5 | 92.2 | 0.0 | 92.2 | 91.3 | 77.2 | 85.0 | 92.0 | 0.1 |
| 9.0 | 91.9 | 0.0 | 91.9 | 91.1 | 76.8 | 84.8 | 91.8 | 0.1 |
| 9.5 | 91.9 | 0.0 | 91.9 | 91.1 | 76.5 | 84.7 | 91.7 | 0.1 |
| 10.0 | 91.7 | 0.0 | 91.7 | 90.7 | 76.7 | 84.5 | 91.5 | 0.1 |
| 10.5 | 91.6 | 0.0 | 91.6 | 90.6 | 76.8 | 84.5 | 91.5 | 0.1 |
| 11.0 | 91.6 | 0.0 | 91.6 | 90.5 | 76.8 | 84.4 | 91.4 | 0.1 |
| 11.5 | 91.8 | 0.0 | 91.8 | 90.5 | 77.0 | 84.6 | 91.6 | 0.1 |
| 12.0 | 91.9 | 0.0 | 91.9 | 90.6 | 77.0 | 84.7 | 91.7 | 0.1 |
| 12.5 | 91.9 | 0.0 | 91.9 | 90.5 | 77.0 | 84.6 | 91.6 | 0.1 |
| 13.0 | 91.8 | 0.0 | 91.8 | 90.5 | 77.0 | 84.6 | 91.6 | 0.1 |
| 13.5 | 91.9 | 0.0 | 91.9 | 90.6 | 77.1 | 84.7 | 91.7 | 0.1 |
| 14.0 | 92.0 | 0.0 | 92.0 | 90.6 | 77.2 | 84.7 | 91.7 | 0.1 |
| 14.5 | 92.0 | 0.0 | 92.0 | 90.6 | 77.3 | 84.8 | 91.8 | 0.1 |
| 15.0 | 92.0 | 0.0 | 92.0 | 90.7 | 77.5 | 84.9 | 91.9 | 0.1 |
| 15.5 | 92.2 | 0.0 | 92.2 | 90.8 | 77.7 | 85.1 | 92.1 | 0.1 |
| 16.0 | 92.7 | 0.0 | 92.7 | 91.2 | 77.9 | 85.5 | 92.5 | 0.1 |
| 16.5 | 93.1 | 0.0 | 93.1 | 91.5 | 78.3 | 85.7 | 92.7 | 0.1 |
| 17.0 | 93.4 | 0.0 | 93.4 | 91.7 | 78.6 | 86.0 | 93.0 | 0.1 |
| 17.5 | 93.4 | 0.0 | 93.4 | 91.6 | 78.7 | 86.1 | 93.1 | 0.1 |
| 18.0 | 93.4 | 0.0 | 93.4 | 91.8 | 79.0 | 86.2 | 93.2 | 0.1 |
| 18.5 | 93.5 | 0.0 | 93.5 | 91.9 | 79.0 | 86.3 | 93.3 | 0.1 |
| 19.0 | 93.7 | 0.0 | 93.7 | 92.2 | 78.9 | 86.4 | 93.4 | 0.1 |
| 19.5 | 94.1 | 0.0 | 94.1 | 92.6 | 79.1 | 86.8 | 93.8 | 0.1 |
| 20.0 | 94.1 | 0.0 | 94.1 | 92.8 | 78.9 | 86.8 | 93.8 | 0.1 |
| 20.5 | 94.4 | 0.0 | 94.4 | 93.0 | 79.0 | 87.0 | 94.0 | 0.1 |
| 21.0 | 94.5 | 0.0 | 94.5 | 93.2 | 79.0 | 87.0 | 94.0 | 0.1 |
| 21.5 | 94.3 | 0.0 | 94.3 | 93.1 | 78.8 | 86.8 | 93.8 | 0.1 |
| 22.0 | 94.2 | 0.0 | 94.2 | 93.5 | 78.6 | 86.9 | 93.9 | 0.1 |
| 22.5 | 94.1 | 0.0 | 94.1 | 93.7 | 78.2 | 86.9 | 93.9 | 0.1 |
| 23.0 | 93.9 | 0.0 | 93.9 | 93.7 | 78.2 | 86.7 | 93.7 | 0.1 |
| 23.5 | 93.8 | 0.0 | 93.8 | 93.8 | 78.1 | 86.7 | 93.7 | 0.1 |
| 24.0 | 93.8 | 0.0 | 93.8 | 94.0 | 77.9 | 86.7 | 93.7 | 0.1 |
| 24.5 | 93.7 | 0.0 | 93.7 | 94.0 | 77.7 | 86.7 | 93.7 | 0.1 |
| 25.0 | 93.8 | 0.0 | 93.8 | 93.9 | 78.4 | 86.8 | 93.8 | 0.1 |
| 25.5 | 93.7 | 0.0 | 93.7 | 93.7 | 78.4 | 86.6 | 93.6 | 0.1 |
| 26.0 | 93.6 | 0.7 | 94.3 | 93.2 | 78.7 | 86.6 | 93.6 | 2.4 |
| 26.5 | 93.5 | 0.7 | 94.2 | 92.6 | 78.5 | 86.2 | 93.2 | 2.4 |
| 27.0 | 93.6 | 0.5 | 94.1 | 91.7 | 78.1 | 85.8 | 92.8 | 0.7 |
| 27.5 | 93.8 | 0.7 | 94.5 | 90.8 | 78.2 | 85.7 | 92.7 | 0.7 |
| 28.0 | 94.3 | 0.9 | 95.2 | 90.0 | 79.1 | 86.1 | 93.1 | 0.7 |
| 28.5 | 94.8 | 1.0 | 95.8 | 89.2 | 80.2 | 86.8 | 93.8 | 0.7 |
| 29.0 | 94.4 | 0.8 | 95.2 | 88.1 | 80.9 | 87.1 | 94.1 | 0.7 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 94.4 | 0.6 | 95.0 | 86.9 | 81.0 | 87.3 | 94.3 | 0.7 |
| 30.0 | 94.4 | 0.0 | 94.4 | 85.6 | 81.1 | 87.3 | 94.3 | 0.1 |
| 30.5 | 93.8 | 0.0 | 93.8 | 84.5 | 80.6 | 86.8 | 93.8 | 0.1 |
| 31.0 | 93.5 | 0.0 | 93.5 | 83.7 | 80.3 | 86.5 | 93.5 | 0.1 |
| 31.5 | 93.0 | 0.0 | 93.0 | 83.1 | 79.7 | 86.0 | 93.0 | 0.1 |
| 32.0 | 92.7 | 0.0 | 92.7 | 82.5 | 79.8 | 85.9 | 92.9 | 0.1 |
| 32.5 | 92.1 | 0.0 | 92.1 | 82.2 | 79.2 | 85.2 | 92.2 | 0.1 |
| 33.0 | 91.7 | 0.0 | 91.7 | 82.1 | 79.2 | 85.0 | 92.0 | 0.1 |
| 33.5 | 91.8 | 0.0 | 91.8 | 81.9 | 79.3 | 85.2 | 92.2 | 0.1 |
| 34.0 | 91.4 | 0.0 | 91.4 | 81.5 | 78.7 | 84.7 | 91.7 | 0.1 |
| 34.5 | 91.0 | 0.0 | 91.0 | 81.5 | 78.4 | 84.3 | 91.3 | 0.1 |
| 35.0 | 90.6 | 0.0 | 90.6 | 81.2 | 78.0 | 83.9 | 90.9 | 0.1 |
| 35.5 | 90.0 | 0.6 | 90.6 | 81.3 | 77.4 | 83.2 | 90.2 | 0.8 |
| 36.0 | 89.5 | 0.6 | 90.1 | 81.3 | 77.3 | 82.7 | 89.7 | 0.8 |
| 36.5 | 89.0 | 0.9 | 89.9 | 81.0 | 76.7 | 82.1 | 89.1 | 0.8 |
| 37.0 | 88.4 | 1.0 | 89.4 | 80.7 | 76.3 | 81.5 | 88.5 | 0.4 |
| 37.5 | 88.0 | 0.9 | 88.9 | 80.4 | 75.9 | 81.1 | 88.1 | 0.4 |
| 38.0 | 86.9 | 1.3 | 88.2 | 80.8 | 74.6 | 80.0 | 87.0 | 0.4 |
| 38.5 | 86.4 | 1.0 | 87.4 | 81.0 | 73.6 | 79.3 | 86.3 | 0.4 |
| 39.0 | 86.6 | 1.0 | 87.6 | 80.7 | 74.1 | 79.6 | 86.6 | 0.4 |
| 39.5 | 86.3 | 0.7 | 87.0 | 79.9 | 74.0 | 79.4 | 86.4 | 0.4 |
| 40.0 | 85.9 | 0.7 | 86.6 | 79.7 | 73.9 | 79.1 | 86.1 | 0.4 |
| 40.5 | 85.7 | 0.8 | 86.5 | 79.1 | 73.2 | 78.8 | 85.8 | 0.4 |
| 41.0 | 84.5 | 1.0 | 85.5 | 80.2 | 71.8 | 77.7 | 84.7 | 0.4 |
| 41.5 | 83.6 | 1.2 | 84.8 | 79.7 | 70.9 | 76.9 | 83.9 | 0.4 |
| 42.0 | 83.2 | 0.7 | 83.9 | 79.1 | 70.8 | 76.4 | 83.4 | 0.4 |
| 42.5 | 82.6 | 0.6 | 83.2 | 78.1 | 70.6 | 75.7 | 82.7 | 0.4 |
| 43.0 | 81.1 | 0.0 | 81.1 | 77.1 | 68.9 | 74.2 | 81.2 | 0.1 |
| 43.5 | 79.2 | 0.0 | 79.2 | 75.8 | 66.8 | 72.4 | 79.4 | 0.1 |
| 44.0 | 77.1 | 0.0 | 77.1 | 74.2 | 64.9 | 70.5 | 77.5 | 0.1 |

MAXIMUM VALUES IN BANDS, PNLC = 98.1

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 86.8 | 86.9 | 88.5 | 88.0 | 85.5 | 82.9 | 82.7 | 79.8 | 77.8 | 74.0 |
| 72.2 | 72.5 | 71.8 | 72.1 | 71.1 | 69.8 | 69.5 | 69.1 | 67.6 | 67.6 |
| 63.8 | 61.4 | 56.4 | 48.5 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 81.4 | 78.2 | 78.0 | 77.0 | 79.8 | 79.3 | 82.6 | 74.1 | 74.7 | 73.2 |
| 71.2 | 69.7 | 69.8 | 69.7 | 67.6 | 66.0 | 66.7 | 66.5 | 64.7 | 64.9 |
| 62.7 | 59.2 | 52.6 | 45.7 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 38.0 | 1.3 | | | | | | |
| PNL | 28.5 | 94.8 | 41.0 | 108.4 | 44.0 | 108.4 | 99.2 | 96.5 |
| PNLT | 28.5 | 95.8 | 41.0 | 108.6 | 44.0 | 108.6 | 100.2 | 97.5 |
| A-LEV | 30.0 | 81.1 | 41.5 | 94.0 | 44.0 | 94.1 | 85.5 | 82.8 |
| N-LEV | 29.5 | 94.3 | 41.5 | 108.3 | 44.0 | 108.3 | 98.7 | 96.0 |

EPNL = 98.6

MAN ACOUSTICS, EVENT #18

| T | PNI | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 68.2 | 1.4 | 69.6 | 70.1 | 57.2 | 63.6 | 70.6 | 0.4 |
| 0.5 | 70.4 | 1.5 | 71.9 | 71.3 | 60.2 | 65.6 | 72.6 | 0.4 |
| 1.0 | 72.7 | 2.2 | 74.9 | 72.3 | 63.7 | 67.5 | 74.5 | 1.2 |
| 1.5 | 75.3 | 1.7 | 77.0 | 74.1 | 66.7 | 70.1 | 77.1 | 0.4 |
| 2.0 | 80.5 | 1.9 | 82.4 | 78.8 | 71.8 | 75.2 | 82.2 | 0.4 |
| 2.5 | 85.6 | 2.0 | 87.6 | 83.0 | 76.4 | 79.7 | 86.7 | 0.4 |
| 3.0 | 87.6 | 2.0 | 89.6 | 85.3 | 78.0 | 81.6 | 88.6 | 0.4 |
| 3.5 | 88.9 | 2.2 | 91.1 | 86.5 | 78.3 | 82.4 | 89.4 | 0.4 |
| 4.0 | 89.6 | 2.2 | 91.8 | 87.5 | 78.9 | 83.1 | 90.1 | 0.4 |
| 4.5 | 89.8 | 2.0 | 91.8 | 87.8 | 78.7 | 83.1 | 90.1 | 0.4 |
| 5.0 | 89.7 | 1.8 | 91.5 | 87.8 | 78.6 | 82.9 | 89.9 | 0.4 |
| 5.5 | 89.8 | 1.7 | 91.5 | 87.9 | 78.9 | 83.1 | 90.1 | 0.4 |
| 6.0 | 89.7 | 1.9 | 91.6 | 87.9 | 79.0 | 83.3 | 90.3 | 1.1 |
| 6.5 | 89.7 | 1.6 | 91.3 | 87.9 | 79.0 | 83.3 | 90.3 | 0.7 |
| 7.0 | 89.4 | 2.1 | 91.5 | 87.7 | 78.4 | 82.9 | 89.9 | 1.1 |
| 7.5 | 89.7 | 2.5 | 92.2 | 87.3 | 78.6 | 82.8 | 89.8 | 1.2 |
| 8.0 | 89.3 | 2.4 | 91.7 | 87.3 | 78.1 | 82.5 | 89.5 | 1.2 |
| 8.5 | 89.0 | 2.1 | 91.1 | 87.1 | 77.5 | 82.2 | 89.2 | 1.2 |
| 9.0 | 88.5 | 1.7 | 90.2 | 86.9 | 76.3 | 81.5 | 88.5 | 1.2 |
| 9.5 | 88.0 | 1.4 | 89.4 | 86.6 | 75.4 | 81.0 | 88.0 | 0.7 |
| 10.0 | 87.7 | 1.5 | 89.2 | 86.2 | 75.3 | 80.7 | 87.7 | 0.7 |
| 10.5 | 87.8 | 1.5 | 89.3 | 86.1 | 75.1 | 80.5 | 87.5 | 0.7 |
| 11.0 | 88.2 | 1.5 | 89.7 | 86.1 | 75.9 | 80.9 | 87.9 | 0.4 |
| 11.5 | 87.9 | 1.5 | 89.4 | 85.7 | 76.3 | 80.7 | 87.7 | 0.4 |
| 12.0 | 87.8 | 1.4 | 89.2 | 85.5 | 76.7 | 81.0 | 88.0 | 0.4 |
| 12.5 | 87.7 | 1.6 | 89.3 | 85.7 | 76.5 | 81.1 | 88.1 | 0.7 |
| 13.0 | 88.2 | 1.4 | 89.6 | 85.6 | 76.9 | 81.4 | 88.4 | 0.7 |
| 13.5 | 89.1 | 1.3 | 90.4 | 85.8 | 78.1 | 82.4 | 89.4 | 0.4 |
| 14.0 | 90.0 | 1.3 | 91.3 | 86.1 | 79.9 | 83.6 | 90.6 | 0.4 |
| 14.5 | 90.2 | 1.4 | 91.6 | 86.4 | 80.2 | 83.8 | 90.8 | 0.4 |
| 15.0 | 90.4 | 1.9 | 92.3 | 86.7 | 80.4 | 84.1 | 91.1 | 0.7 |
| 15.5 | 90.9 | 2.1 | 93.0 | 87.6 | 80.8 | 84.8 | 91.8 | 0.7 |
| 16.0 | 90.7 | 2.1 | 92.8 | 87.8 | 80.4 | 84.6 | 91.6 | 0.7 |
| 16.5 | 90.2 | 2.0 | 92.2 | 88.3 | 79.1 | 84.0 | 91.0 | 0.7 |
| 17.0 | 91.2 | 2.0 | 93.2 | 88.8 | 80.0 | 84.8 | 91.8 | 0.7 |
| 17.5 | 92.5 | 2.2 | 94.7 | 89.2 | 81.7 | 86.0 | 93.0 | 0.7 |
| 18.0 | 93.6 | 1.9 | 95.5 | 89.7 | 82.8 | 86.9 | 93.9 | 0.7 |
| 18.5 | 94.6 | 1.9 | 96.5 | 90.3 | 84.6 | 88.4 | 95.4 | 0.4 |
| 19.0 | 94.7 | 1.8 | 96.5 | 90.3 | 85.0 | 88.7 | 95.7 | 0.4 |
| 19.5 | 94.3 | 1.7 | 96.0 | 89.8 | 84.7 | 88.2 | 95.2 | 0.4 |
| 20.0 | 94.1 | 1.5 | 95.6 | 89.5 | 84.3 | 87.9 | 94.9 | 0.4 |
| 20.5 | 95.3 | 1.6 | 96.9 | 90.2 | 85.3 | 89.0 | 96.0 | 0.4 |
| 21.0 | 95.7 | 1.7 | 97.4 | 90.4 | 85.6 | 89.4 | 96.4 | 0.4 |
| 21.5 | 95.3 | 1.7 | 97.0 | 90.3 | 85.3 | 89.0 | 96.0 | 0.4 |
| 22.0 | 95.6 | 1.7 | 97.3 | 90.6 | 85.6 | 89.4 | 96.4 | 0.4 |
| 22.5 | 95.7 | 1.6 | 97.3 | 90.7 | 85.4 | 89.3 | 96.3 | 0.4 |
| 23.0 | 96.4 | 1.7 | 98.1 | 91.2 | 86.1 | 90.0 | 97.0 | 0.4 |
| 23.5 | 96.5 | 1.6 | 98.1 | 91.2 | 86.1 | 90.0 | 97.0 | 0.4 |
| 24.0 | 96.7 | 1.5 | 98.2 | 91.4 | 86.5 | 90.2 | 97.2 | 0.4 |
| 24.5 | 97.0 | 1.6 | 98.6 | 91.5 | 86.7 | 90.5 | 97.5 | 0.4 |
| 25.0 | 97.0 | 1.7 | 98.7 | 91.4 | 86.9 | 90.4 | 97.4 | 0.4 |
| 25.5 | 98.0 | 1.7 | 99.7 | 92.1 | 87.7 | 91.4 | 98.4 | 0.4 |
| 26.0 | 98.0 | 1.7 | 99.7 | 92.2 | 87.9 | 91.6 | 98.6 | 0.4 |
| 26.5 | 98.2 | 1.8 | 100.0 | 92.6 | 88.1 | 91.9 | 98.9 | 0.4 |
| 27.0 | 98.5 | 2.0 | 100.5 | 92.9 | 87.8 | 91.8 | 98.8 | 0.4 |
| 27.5 | 98.7 | 1.9 | 100.6 | 93.0 | 87.8 | 91.8 | 98.8 | 0.4 |
| 28.0 | 98.5 | 1.9 | 100.4 | 93.1 | 87.7 | 91.9 | 98.9 | 0.4 |
| 28.5 | 98.7 | 2.2 | 100.9 | 93.1 | 88.1 | 92.2 | 99.2 | 0.7 |
| 29.0 | 99.1 | 2.2 | 101.3 | 93.3 | 88.5 | 92.6 | 99.6 | 0.7 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 99.7 | 2.1 | 101.8 | 93.4 | 88.7 | 93.0 | 100.0 | 0.7 |
| 30.0 | 100.2 | 2.1 | 102.3 | 93.5 | 89.3 | 93.4 | 100.4 | 0.7 |
| 30.5 | 100.2 | 2.3 | 102.5 | 93.6 | 89.8 | 93.7 | 100.7 | 0.7 |
| 31.0 | 99.8 | 1.7 | 101.5 | 93.5 | 89.8 | 93.6 | 100.6 | 0.7 |
| 31.5 | 100.0 | 1.4 | 101.4 | 93.6 | 89.8 | 93.9 | 100.9 | 0.7 |
| 32.0 | 100.2 | 1.2 | 101.4 | 93.4 | 90.0 | 94.0 | 101.0 | 0.7 |
| 32.5 | 100.0 | 1.5 | 101.5 | 93.1 | 89.6 | 93.8 | 100.8 | 0.4 |
| 33.0 | 99.8 | 1.7 | 101.5 | 92.9 | 89.1 | 93.6 | 100.6 | 0.3 |
| 33.5 | 99.8 | 1.0 | 100.8 | 92.5 | 88.5 | 93.4 | 100.4 | 0.3 |
| 34.0 | 100.0 | 1.2 | 101.2 | 92.5 | 88.4 | 93.5 | 100.5 | 0.8 |
| 34.5 | 99.3 | 1.1 | 100.4 | 91.5 | 87.9 | 92.8 | 99.8 | 0.8 |
| 35.0 | 98.5 | 1.0 | 99.5 | 90.7 | 87.6 | 92.2 | 99.2 | 0.3 |
| 35.5 | 98.1 | 0.9 | 99.0 | 90.1 | 87.6 | 92.0 | 99.0 | 0.3 |
| 36.0 | 97.9 | 1.0 | 98.9 | 89.9 | 87.6 | 91.8 | 98.8 | 0.6 |
| 36.5 | 97.5 | 1.1 | 98.6 | 89.5 | 87.0 | 91.4 | 98.4 | 0.6 |
| 37.0 | 97.4 | 1.4 | 98.8 | 89.5 | 87.1 | 91.3 | 98.3 | 0.6 |
| 37.5 | 96.8 | 1.4 | 98.2 | 89.2 | 86.5 | 90.7 | 97.7 | 0.6 |
| 38.0 | 96.8 | 1.3 | 98.1 | 89.1 | 86.5 | 90.7 | 97.7 | 0.6 |
| 38.5 | 96.3 | 1.1 | 97.4 | 89.0 | 86.2 | 90.3 | 97.3 | 0.6 |
| 39.0 | 96.0 | 1.1 | 97.1 | 89.0 | 86.1 | 90.2 | 97.2 | 0.6 |
| 39.5 | 95.7 | 1.1 | 96.8 | 88.6 | 85.6 | 89.3 | 96.8 | 0.8 |
| 40.0 | 95.4 | 1.2 | 96.6 | 88.4 | 84.9 | 89.1 | 96.1 | 0.3 |
| 40.5 | 95.6 | 1.1 | 96.7 | 88.6 | 84.7 | 89.0 | 96.0 | 0.3 |
| 41.0 | 95.5 | 1.3 | 96.8 | 88.6 | 84.2 | 88.6 | 95.6 | 0.3 |
| 41.5 | 95.0 | 1.2 | 96.2 | 88.5 | 83.4 | 88.0 | 95.0 | 0.3 |
| 42.0 | 94.3 | 1.1 | 95.4 | 87.9 | 83.1 | 87.6 | 94.6 | 0.3 |
| 42.5 | 94.0 | 1.2 | 95.2 | 87.5 | 82.8 | 87.3 | 94.3 | 0.3 |
| 43.0 | 93.3 | 1.2 | 94.5 | 87.1 | 82.0 | 86.5 | 93.5 | 1.2 |
| 43.5 | 92.9 | 1.2 | 94.1 | 86.8 | 81.6 | 86.1 | 93.1 | 1.2 |
| 44.0 | 92.5 | 1.8 | 94.3 | 86.5 | 81.9 | 86.0 | 93.0 | 1.2 |
| 44.5 | 92.6 | 1.6 | 94.2 | 86.6 | 82.2 | 86.2 | 93.2 | 1.2 |
| 45.0 | 92.7 | 1.4 | 94.1 | 86.4 | 82.5 | 86.6 | 93.6 | 1.2 |
| 45.5 | 92.7 | 1.2 | 93.9 | 86.4 | 81.7 | 86.0 | 93.0 | 1.2 |
| 46.0 | 92.0 | 1.1 | 93.1 | 85.9 | 80.6 | 85.1 | 92.1 | 0.3 |
| 46.5 | 91.0 | 1.2 | 92.2 | 85.1 | 79.8 | 84.3 | 91.3 | 0.3 |
| 47.0 | 90.4 | 1.3 | 91.7 | 84.8 | 79.4 | 83.7 | 90.7 | 0.3 |
| 47.5 | 90.8 | 1.3 | 92.1 | 85.2 | 80.1 | 84.2 | 91.2 | 0.3 |
| 48.0 | 91.1 | 1.5 | 92.6 | 85.2 | 80.9 | 84.7 | 91.7 | 1.3 |
| 48.5 | 90.6 | 1.6 | 92.2 | 84.6 | 80.6 | 84.3 | 91.3 | 1.3 |
| 49.0 | 89.6 | 1.3 | 90.9 | 83.9 | 79.4 | 83.2 | 90.2 | 1.3 |
| 49.5 | 88.4 | 1.3 | 89.7 | 82.9 | 77.9 | 81.9 | 88.9 | 0.3 |
| 50.0 | 87.1 | 1.4 | 88.5 | 82.0 | 76.1 | 80.3 | 87.3 | 0.3 |
| 50.5 | 85.3 | 1.3 | 86.6 | 80.5 | 74.3 | 78.6 | 85.6 | 0.3 |
| 51.0 | 83.3 | 1.2 | 84.5 | 78.6 | 72.3 | 76.7 | 83.7 | 0.3 |
| 51.5 | 80.8 | 1.1 | 81.9 | 76.7 | 70.2 | 74.6 | 81.6 | 0.3 |
| 52.0 | 78.9 | 1.2 | 80.1 | 74.9 | 68.5 | 72.8 | 79.8 | 0.3 |

MAXIMUM VALUES IN BANDS, PNLC =103.2

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 79.9 | 79.9 | 79.2 | 84.6 | 74.4 | 83.2 | 87.6 | 87.0 | 88.1 | 88.3 |
| 85.9 | 85.7 | 83.1 | 81.3 | 79.1 | 78.3 | 77.0 | 74.0 | 71.0 | 67.7 |
| 62.0 | 55.6 | 47.7 | 45.8 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72.0 | 73.8 | 68.2 | 72.7 | 67.6 | 74.9 | 87.0 | 76.4 | 80.4 | 87.7 |
| 84.0 | 85.7 | 81.6 | 78.6 | 76.8 | 74.5 | 72.7 | 69.9 | 66.7 | 63.0 |
| 57.1 | 49.3 | 44.7 | 44.3 | | | | | | |

| | TIME | MAX | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M | A-107 |
|---|---|---|---|---|---|---|---|---|---|
| P.T. | 7.5 | 2.5 | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PNL | 30.0 | 100.2 | 32.5 | 112.0 | 50.5 | 112.3 | 103.6 | 102.5 |
| PNLT | 30.5 | 102.5 | 30.0 | 113.4 | 49.5 | 113.9 | 105.5 | 104.7 |
| A-LEV | 32.0 | 90.0 | 29.5 | 101.3 | 50.5 | 101.7 | 92.9 | 92.3 |
| N-LEV | 32.0 | 101.0 | 30.5 | 112.5 | 50.5 | 112.9 | 104.1 | 103.3 |

EPNL =103.4

MAN ACOUSTICS, EVENT #19

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 76.5 | 2.3 | 78.8 | 75.6 | 65.0 | 71.1 | 78.1 | 0.7 |
| 0.5 | 82.1 | 2.4 | 84.5 | 79.8 | 69.1 | 75.2 | 82.2 | 0.7 |
| 1.0 | 83.9 | 2.4 | 86.3 | 81.6 | 70.7 | 77.0 | 84.0 | 0.7 |
| 1.5 | 84.5 | 2.3 | 86.8 | 81.9 | 71.4 | 77.4 | 84.4 | 0.7 |
| 2.0 | 84.6 | 2.2 | 86.8 | 81.8 | 71.8 | 77.5 | 84.5 | 0.7 |
| 2.5 | 84.5 | 2.2 | 86.7 | 81.8 | 72.1 | 77.4 | 84.4 | 0.7 |
| 3.0 | 84.6 | 2.3 | 86.9 | 81.9 | 72.2 | 77.5 | 84.5 | 0.7 |
| 3.5 | 84.8 | 2.5 | 87.3 | 82.2 | 72.0 | 77.6 | 84.6 | 0.7 |
| 4.0 | 84.8 | 2.4 | 87.2 | 82.4 | 71.7 | 77.5 | 84.5 | 0.7 |
| 4.5 | 84.7 | 2.4 | 87.1 | 82.3 | 71.6 | 77.4 | 84.4 | 0.7 |
| 5.0 | 84.6 | 2.3 | 86.9 | 82.2 | 71.3 | 77.2 | 84.2 | 0.7 |
| 5.5 | 85.1 | 2.4 | 87.5 | 82.6 | 71.4 | 77.6 | 84.6 | 0.7 |
| 6.0 | 85.1 | 2.4 | 87.5 | 82.7 | 71.2 | 77.6 | 84.6 | 0.7 |
| 6.5 | 85.3 | 2.4 | 87.7 | 83.1 | 71.4 | 77.9 | 84.9 | 0.7 |
| 7.0 | 85.3 | 2.4 | 87.7 | 83.4 | 71.5 | 78.1 | 85.1 | 0.7 |
| 7.5 | 85.4 | 2.3 | 87.7 | 83.6 | 71.4 | 78.1 | 85.1 | 0.7 |
| 8.0 | 85.5 | 2.3 | 87.8 | 83.5 | 71.9 | 78.2 | 85.2 | 0.7 |
| 8.5 | 86.0 | 2.4 | 88.4 | 83.6 | 73.2 | 78.7 | 85.7 | 0.7 |
| 9.0 | 86.0 | 2.3 | 88.3 | 83.6 | 73.5 | 78.9 | 85.9 | 0.7 |
| 9.5 | 86.1 | 2.2 | 88.3 | 83.9 | 73.8 | 79.3 | 86.3 | 0.7 |
| 10.0 | 86.1 | 2.3 | 88.4 | 84.3 | 73.3 | 79.3 | 86.3 | 0.7 |
| 10.5 | 86.0 | 2.3 | 88.3 | 84.5 | 72.7 | 79.3 | 86.3 | 0.7 |
| 11.0 | 86.2 | 2.3 | 88.5 | 84.7 | 72.6 | 79.4 | 86.4 | 0.7 |
| 11.5 | 86.3 | 2.3 | 88.6 | 85.0 | 72.8 | 79.7 | 86.7 | 0.7 |
| 12.0 | 86.6 | 2.3 | 88.9 | 85.2 | 73.1 | 79.8 | 86.8 | 0.7 |
| 12.5 | 86.7 | 2.4 | 89.1 | 85.3 | 73.4 | 80.0 | 87.0 | 0.7 |
| 13.0 | 87.1 | 2.4 | 89.5 | 85.4 | 74.2 | 80.5 | 87.5 | 0.7 |
| 13.5 | 87.6 | 2.5 | 90.3 | 85.6 | 75.0 | 81.0 | 88.0 | 0.4 |
| 14.0 | 88.1 | 2.6 | 90.7 | 85.5 | 75.7 | 81.3 | 88.3 | 0.4 |
| 14.5 | 88.3 | 2.7 | 91.0 | 85.5 | 76.5 | 81.6 | 88.6 | 0.4 |
| 15.0 | 88.3 | 2.6 | 90.9 | 85.4 | 77.2 | 81.9 | 88.9 | 0.4 |
| 15.5 | 88.4 | 2.6 | 91.0 | 85.3 | 77.6 | 82.1 | 89.1 | 1.1 |
| 16.0 | 88.6 | 2.5 | 91.1 | 85.3 | 77.6 | 82.1 | 89.1 | 0.4 |
| 16.5 | 88.7 | 2.6 | 91.3 | 85.4 | 77.0 | 81.9 | 88.9 | 0.4 |
| 17.0 | 88.3 | 2.5 | 90.8 | 85.4 | 76.2 | 81.4 | 88.4 | 0.4 |
| 17.5 | 87.9 | 2.3 | 90.2 | 85.7 | 75.8 | 81.2 | 88.2 | 1.1 |
| 18.0 | 87.9 | 2.5 | 90.4 | 85.9 | 75.2 | 80.9 | 87.9 | 1.2 |
| 18.5 | 87.7 | 2.2 | 89.9 | 85.8 | 74.4 | 80.5 | 87.5 | 1.2 |
| 19.0 | 87.8 | 2.0 | 89.8 | 86.0 | 74.0 | 80.4 | 87.4 | 0.4 |
| 19.5 | 87.9 | 2.0 | 89.9 | 86.1 | 74.0 | 80.4 | 87.4 | 0.4 |
| 20.0 | 88.0 | 1.9 | 89.9 | 86.1 | 74.4 | 80.5 | 87.5 | 0.4 |
| 20.5 | 88.2 | 1.9 | 90.1 | 86.1 | 75.5 | 81.0 | 88.0 | 0.4 |
| 21.0 | 88.0 | 2.0 | 90.0 | 85.8 | 76.0 | 81.0 | 88.0 | 0.7 |
| 21.5 | 87.8 | 1.9 | 89.7 | 85.3 | 76.7 | 81.1 | 88.1 | 0.4 |
| 22.0 | 88.2 | 1.9 | 90.1 | 85.5 | 77.7 | 81.8 | 88.8 | 0.7 |
| 22.5 | 92.3 | 6.4 | 98.7 | 86.1 | 81.2 | 85.7 | 92.7 | 1.6 |
| 23.0 | 89.6 | 2.1 | 91.7 | 86.1 | 79.5 | 83.3 | 90.3 | 0.7 |
| 23.5 | 90.5 | 2.2 | 92.7 | 86.8 | 80.2 | 84.2 | 91.2 | 0.7 |
| 24.0 | 91.4 | 2.4 | 93.8 | 87.1 | 80.8 | 84.7 | 91.7 | 0.4 |
| 24.5 | 91.6 | 2.4 | 94.0 | 87.1 | 81.0 | 84.9 | 91.9 | 0.4 |
| 25.0 | 91.7 | 2.4 | 94.1 | 87.1 | 81.2 | 85.1 | 92.1 | 0.4 |
| 25.5 | 91.7 | 2.2 | 93.9 | 87.2 | 81.1 | 85.1 | 92.1 | 0.4 |
| 26.0 | 92.1 | 2.1 | 94.2 | 87.5 | 81.6 | 85.5 | 92.5 | 0.7 |
| 26.5 | 92.9 | 2.0 | 94.9 | 87.9 | 82.4 | 86.1 | 93.1 | 0.4 |
| 27.0 | 93.4 | 1.9 | 95.3 | 88.1 | 82.8 | 86.5 | 93.5 | 0.4 |
| 27.5 | 93.5 | 1.9 | 95.4 | 88.3 | 82.9 | 86.7 | 93.7 | 0.4 |
| 28.0 | 93.6 | 2.0 | 95.6 | 88.6 | 83.0 | 86.9 | 93.9 | 0.4 |
| 28.5 | 93.8 | 2.0 | 95.8 | 88.6 | 82.9 | 87.0 | 94.0 | 0.4 |
| 29.0 | 94.0 | 2.1 | 96.1 | 88.6 | 83.1 | 87.1 | 94.1 | 0.4 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 94.4 | 2.1 | 96.5 | 88.8 | 83.5 | 87.5 | 94.5 | 0.4 |
| 30.0 | 94.8 | 2.1 | 96.9 | 89.2 | 83.9 | 87.9 | 94.9 | 0.4 |
| 30.5 | 95.4 | 2.1 | 97.5 | 89.7 | 84.5 | 88.6 | 95.6 | 0.4 |
| 31.0 | 96.1 | 1.9 | 98.0 | 89.9 | 84.7 | 89.0 | 96.0 | 0.4 |
| 31.5 | 96.6 | 1.9 | 98.5 | 90.2 | 85.3 | 89.6 | 96.6 | 0.4 |
| 32.0 | 97.0 | 1.9 | 98.9 | 90.9 | 85.7 | 90.0 | 97.0 | 0.4 |
| 32.5 | 97.0 | 2.0 | 99.0 | 91.0 | 85.6 | 90.1 | 97.1 | 0.4 |
| 33.0 | 96.9 | 2.1 | 99.0 | 91.1 | 85.4 | 90.0 | 97.0 | 0.4 |
| 33.5 | 96.7 | 2.2 | 98.9 | 91.3 | 85.1 | 89.9 | 96.9 | 0.4 |
| 34.0 | 96.9 | 2.1 | 99.0 | 91.2 | 85.1 | 90.1 | 97.1 | 0.4 |
| 34.5 | 96.9 | 2.2 | 99.1 | 91.2 | 85.2 | 90.2 | 97.2 | 0.4 |
| 35.0 | 97.3 | 2.1 | 99.4 | 91.4 | 85.3 | 90.6 | 97.6 | 0.4 |
| 35.5 | 97.9 | 1.7 | 99.6 | 91.8 | 85.8 | 91.0 | 98.0 | 0.4 |
| 36.0 | 98.4 | 1.5 | 99.9 | 92.0 | 86.1 | 91.4 | 98.4 | 0.4 |
| 36.5 | 98.7 | 1.0 | 99.7 | 92.1 | 86.6 | 91.8 | 98.8 | 0.4 |
| 37.0 | 99.3 | 1.2 | 100.5 | 92.1 | 86.9 | 92.2 | 99.2 | 0.7 |
| 37.5 | 100.0 | 1.4 | 101.4 | 92.7 | 87.5 | 93.1 | 100.1 | 0.7 |
| 38.0 | 100.2 | 1.3 | 101.5 | 92.9 | 87.7 | 93.3 | 100.3 | 0.7 |
| 38.5 | 100.5 | 0.0 | 100.5 | 93.6 | 87.9 | 93.6 | 100.6 | 0.1 |
| 39.0 | 101.1 | 0.8 | 101.9 | 94.0 | 88.0 | 93.7 | 100.7 | 0.3 |
| 39.5 | 100.7 | 1.0 | 101.7 | 93.6 | 87.8 | 93.4 | 100.4 | 0.3 |
| 40.0 | 100.3 | 1.0 | 101.3 | 93.2 | 87.9 | 93.3 | 100.3 | 0.3 |
| 40.5 | 99.9 | 0.7 | 100.6 | 92.6 | 87.7 | 93.1 | 100.1 | 0.3 |
| 41.0 | 99.5 | 0.9 | 100.4 | 91.7 | 87.3 | 92.7 | 99.7 | 0.6 |
| 41.5 | 99.0 | 1.0 | 100.0 | 90.8 | 86.9 | 92.2 | 99.2 | 0.6 |
| 42.0 | 98.3 | 1.1 | 99.4 | 89.9 | 86.2 | 91.5 | 98.5 | 0.6 |
| 42.5 | 98.0 | 1.0 | 99.0 | 89.3 | 85.7 | 91.2 | 98.2 | 0.3 |
| 43.0 | 97.7 | 1.3 | 99.0 | 89.4 | 85.8 | 91.1 | 98.1 | 0.3 |
| 43.5 | 97.2 | 1.7 | 98.9 | 89.3 | 85.7 | 90.7 | 97.7 | 1.2 |
| 44.0 | 97.1 | 1.6 | 98.7 | 89.2 | 85.6 | 90.2 | 97.2 | 0.3 |
| 44.5 | 96.6 | 1.7 | 98.3 | 88.8 | 85.5 | 89.7 | 96.7 | 0.3 |
| 45.0 | 95.7 | 1.7 | 97.4 | 88.3 | 85.0 | 89.1 | 96.1 | 0.3 |
| 45.5 | 95.3 | 1.8 | 97.1 | 88.0 | 84.9 | 88.9 | 95.9 | 0.3 |
| 46.0 | 95.0 | 2.0 | 97.0 | 87.5 | 84.3 | 88.4 | 95.4 | 0.3 |
| 46.5 | 94.2 | 2.0 | 96.2 | 87.0 | 83.5 | 87.8 | 94.8 | 0.3 |
| 47.0 | 93.3 | 2.0 | 95.3 | 86.2 | 82.5 | 87.0 | 94.0 | 0.3 |
| 47.5 | 92.6 | 2.0 | 94.6 | 85.8 | 81.5 | 86.1 | 93.1 | 0.3 |
| 48.0 | 92.1 | 1.9 | 94.0 | 85.7 | 80.9 | 85.6 | 92.6 | 0.3 |
| 48.5 | 92.0 | 2.0 | 94.0 | 85.8 | 80.7 | 85.2 | 92.2 | 0.3 |
| 49.0 | 91.8 | 2.1 | 93.9 | 85.7 | 80.4 | 84.9 | 91.9 | 0.3 |
| 49.5 | 91.1 | 2.2 | 93.3 | 85.8 | 79.5 | 84.5 | 91.5 | 0.3 |
| 50.0 | 90.8 | 2.0 | 92.8 | 85.7 | 79.1 | 84.2 | 91.2 | 0.3 |
| 50.5 | 90.8 | 2.1 | 92.9 | 85.8 | 79.0 | 84.1 | 91.1 | 0.3 |
| 51.0 | 90.7 | 2.0 | 92.7 | 85.9 | 78.7 | 83.9 | 90.9 | 0.3 |
| 51.5 | 90.7 | 2.0 | 92.7 | 86.0 | 78.2 | 83.6 | 90.6 | 0.3 |
| 52.0 | 90.7 | 1.9 | 92.6 | 85.8 | 77.8 | 83.3 | 90.3 | 0.3 |
| 52.5 | 90.4 | 1.8 | 92.2 | 85.3 | 77.7 | 83.1 | 90.1 | 0.3 |

MAXIMUM VALUES IN BANDS, PNLC =102.5

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 77.1 | 77.0 | 81.2 | 84.0 | 83.6 | 86.4 | 87.6 | 87.7 | 84.0 | 86.4 |
| 83.2 | 82.3 | 80.3 | 77.6 | 77.2 | 77.0 | 74.9 | 72.7 | 72.3 | 70.9 |
| 68.2 | 65.1 | 60.5 | 55.6 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 75.7 | 67.2 | 78.5 | 80.0 | 81.1 | 86.4 | 85.5 | 87.7 | 80.8 | 82.2 |
| 82.4 | 79.2 | 78.4 | 76.0 | 74.9 | 75.1 | 74.5 | 72.0 | 71.7 | 70.7 |
| 67.8 | 64.8 | 59.5 | 53.7 | | | | | | |

| TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M | A-110 |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| P.T. | 22.5 | 6.4 | | | | | | |
| PNL | 39.0 | 101.1 | 26.0 | 111.0 | 52.5 | 111.5 | 103.5 | 103.5 |
| PNLT | 39.0 | 101.9 | 29.5 | 112.7 | 52.5 | 113.1 | 104.8 | 104.3 |
| A-LEV | 39.0 | 88.0 | 30.0 | 99.4 | 52.5 | 99.7 | 91.0 | 90.4 |
| N-LEV | 39.0 | 100.7 | 28.5 | 111.3 | 52.5 | 111.6 | 103.5 | 103.1 |

EPNL =102.7

MAN ACOUSTICS, EVENT #20

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 75.7 | 2.4 | 78.1 | 77.1 | 64.1 | 70.5 | 77.5 | 0.2 |
| 0.5 | 79.8 | 2.4 | 82.2 | 80.6 | 66.6 | 73.7 | 80.7 | 0.2 |
| 1.0 | 82.5 | 2.4 | 84.9 | 83.5 | 68.0 | 75.9 | 82.9 | 0.2 |
| 1.5 | 83.8 | 2.4 | 86.2 | 84.7 | 69.0 | 77.0 | 84.0 | 0.2 |
| 2.0 | 84.7 | 2.5 | 87.2 | 85.6 | 70.0 | 77.7 | 84.7 | 0.2 |
| 2.5 | 85.2 | 2.4 | 87.6 | 85.9 | 70.9 | 78.2 | 85.2 | 0.2 |
| 3.0 | 85.3 | 2.1 | 87.4 | 85.9 | 71.4 | 78.5 | 85.5 | 0.2 |
| 3.5 | 85.5 | 1.8 | 87.3 | 86.1 | 71.3 | 78.7 | 85.7 | 0.2 |
| 4.0 | 85.8 | 1.7 | 87.5 | 86.3 | 71.3 | 78.9 | 85.9 | 0.2 |
| 4.5 | 86.1 | 1.9 | 88.0 | 86.5 | 71.3 | 79.1 | 86.1 | 0.2 |
| 5.0 | 86.5 | 1.8 | 88.3 | 86.7 | 71.6 | 79.5 | 86.5 | 0.2 |
| 5.5 | 86.9 | 1.5 | 88.4 | 86.8 | 72.3 | 79.9 | 86.9 | 0.2 |
| 6.0 | 87.0 | 1.7 | 88.7 | 86.8 | 73.2 | 80.3 | 87.3 | 1.3 |
| 6.5 | 87.3 | 1.6 | 88.9 | 87.0 | 73.7 | 80.7 | 87.7 | 1.3 |
| 7.0 | 87.8 | 1.4 | 89.2 | 87.3 | 74.1 | 81.1 | 88.1 | 0.2 |
| 7.5 | 88.2 | 1.4 | 89.6 | 87.6 | 74.4 | 81.5 | 88.5 | 0.2 |
| 8.0 | 88.2 | 1.4 | 89.6 | 88.0 | 74.2 | 81.6 | 88.6 | 0.2 |
| 8.5 | 88.1 | 1.2 | 89.3 | 88.4 | 73.7 | 81.6 | 88.6 | 0.2 |
| 9.0 | 88.0 | 1.2 | 89.2 | 88.5 | 73.2 | 81.3 | 88.3 | 0.2 |
| 9.5 | 87.9 | 1.2 | 89.1 | 88.4 | 73.2 | 81.1 | 88.1 | 0.2 |
| 10.0 | 87.8 | 1.4 | 89.2 | 88.1 | 73.1 | 80.8 | 87.8 | 0.2 |
| 10.5 | 88.0 | 1.6 | 89.6 | 88.0 | 73.2 | 80.9 | 87.9 | 0.2 |
| 11.0 | 88.3 | 1.8 | 90.1 | 88.1 | 73.7 | 81.2 | 88.2 | 0.2 |
| 11.5 | 88.7 | 1.4 | 90.1 | 88.3 | 74.6 | 81.6 | 88.6 | 0.2 |
| 12.0 | 89.1 | 1.2 | 90.3 | 88.5 | 75.2 | 82.1 | 89.1 | 0.2 |
| 12.5 | 89.3 | 1.3 | 90.6 | 88.6 | 75.6 | 82.4 | 89.4 | 1.3 |
| 13.0 | 89.2 | 1.5 | 90.7 | 88.5 | 75.8 | 82.4 | 89.4 | 1.3 |
| 13.5 | 88.8 | 1.1 | 89.9 | 88.6 | 74.7 | 82.0 | 89.0 | 0.2 |
| 14.0 | 88.9 | 1.2 | 90.1 | 88.7 | 74.2 | 81.8 | 88.8 | 0.2 |
| 14.5 | 89.2 | 1.0 | 90.2 | 88.5 | 75.1 | 82.3 | 89.3 | 1.5 |
| 15.0 | 89.2 | 1.2 | 90.4 | 88.7 | 75.1 | 82.4 | 89.4 | 1.5 |
| 15.5 | 89.4 | 1.2 | 90.6 | 88.9 | 75.1 | 82.5 | 89.5 | 1.5 |
| 16.0 | 89.5 | 0.0 | 89.5 | 89.0 | 75.2 | 82.6 | 89.6 | 0.1 |
| 16.5 | 89.8 | 0.0 | 89.8 | 88.8 | 75.9 | 82.8 | 89.8 | 0.1 |
| 17.0 | 90.6 | 0.0 | 90.6 | 88.6 | 77.4 | 83.7 | 90.7 | 0.1 |
| 17.5 | 92.3 | 0.6 | 92.9 | 88.6 | 79.7 | 85.2 | 92.2 | 0.6 |
| 18.0 | 93.6 | 1.0 | 94.6 | 88.6 | 81.3 | 86.4 | 93.4 | 1.1 |
| 18.5 | 94.4 | 1.1 | 95.5 | 89.2 | 81.9 | 86.9 | 93.9 | 1.1 |
| 19.0 | 96.3 | 0.9 | 97.2 | 89.9 | 83.8 | 88.7 | 95.7 | 0.6 |
| 19.5 | 97.1 | 1.1 | 98.2 | 90.2 | 84.3 | 89.5 | 96.5 | 2.4 |
| 20.0 | 97.7 | 1.2 | 98.9 | 90.5 | 84.8 | 90.4 | 97.4 | 2.4 |
| 20.5 | 97.9 | 1.0 | 98.9 | 91.0 | 85.1 | 90.9 | 97.9 | 2.4 |
| 21.0 | 98.0 | 0.9 | 98.9 | 91.6 | 85.5 | 91.3 | 98.3 | 2.4 |
| 21.5 | 98.8 | 0.8 | 99.6 | 92.4 | 86.0 | 92.0 | 99.0 | 0.7 |
| 22.0 | 99.7 | 0.9 | 100.6 | 93.4 | 86.6 | 92.6 | 99.6 | 0.7 |
| 22.5 | 100.0 | 1.0 | 101.0 | 94.0 | 86.8 | 93.0 | 100.0 | 1.3 |
| 23.0 | 100.3 | 1.0 | 101.3 | 94.4 | 87.1 | 93.3 | 100.3 | 1.3 |
| 23.5 | 100.5 | 0.0 | 100.5 | 94.6 | 87.1 | 93.2 | 100.2 | 0.1 |
| 24.0 | 100.3 | 0.0 | 100.3 | 94.8 | 86.7 | 93.0 | 100.0 | 0.1 |
| 24.5 | 100.0 | 0.0 | 100.0 | 95.1 | 86.1 | 92.8 | 99.8 | 0.1 |
| 25.0 | 99.7 | 0.0 | 99.7 | 94.9 | 85.4 | 92.4 | 99.4 | 0.1 |
| 25.5 | 99.0 | 0.5 | 99.5 | 94.2 | 84.4 | 91.6 | 98.6 | 0.4 |
| 26.0 | 98.4 | 0.6 | 99.0 | 93.7 | 83.7 | 91.1 | 98.1 | 0.4 |
| 26.5 | 97.9 | 0.0 | 97.9 | 93.1 | 83.2 | 90.5 | 97.5 | 0.1 |
| 27.0 | 97.2 | 0.0 | 97.2 | 92.1 | 82.6 | 89.9 | 96.9 | 0.1 |
| 27.5 | 96.3 | 0.0 | 96.3 | 91.2 | 81.9 | 89.1 | 96.1 | 0.1 |
| 28.0 | 96.0 | 0.0 | 96.0 | 90.4 | 81.5 | 88.6 | 95.6 | 0.1 |
| 28.5 | 95.4 | 0.0 | 95.4 | 89.6 | 81.0 | 88.0 | 95.0 | 0.1 |
| 29.0 | 94.9 | 0.5 | 95.4 | 89.1 | 80.5 | 87.5 | 94.5 | 2.4 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 94.3 | 0.6 | 94.9 | 88.4 | 80.2 | 87.0 | 94.0 | 2.4 |
| 30.0 | 93.6 | 0.7 | 94.3 | 87.9 | 79.4 | 86.3 | 93.3 | 2.4 |
| 30.5 | 93.2 | 1.0 | 94.2 | 87.8 | 79.1 | 85.9 | 92.9 | 2.4 |
| 31.0 | 92.7 | 1.0 | 93.7 | 87.0 | 78.7 | 85.5 | 92.5 | 2.4 |
| 31.5 | 91.9 | 1.0 | 92.9 | 86.7 | 77.8 | 84.7 | 91.7 | 2.4 |
| 32.0 | 91.3 | 0.9 | 92.2 | 86.5 | 77.4 | 84.1 | 91.1 | 2.4 |
| 32.5 | 91.1 | 1.2 | 92.3 | 86.1 | 77.6 | 84.1 | 91.1 | 1.3 |
| 33.0 | 90.7 | 1.3 | 92.0 | 86.0 | 77.5 | 83.6 | 90.6 | 1.3 |
| 33.5 | 90.2 | 0.6 | 90.8 | 86.0 | 77.1 | 83.3 | 90.3 | 2.4 |
| 34.0 | 89.5 | 0.8 | 90.3 | 85.8 | 76.5 | 82.6 | 89.6 | 0.4 |
| 34.5 | 88.7 | 0.0 | 88.7 | 85.3 | 75.5 | 81.8 | 88.8 | 0.1 |
| 35.0 | 88.4 | 0.0 | 88.4 | 85.6 | 75.1 | 81.6 | 88.6 | 0.1 |
| 35.5 | 88.4 | 0.0 | 88.4 | 85.2 | 75.3 | 81.6 | 88.6 | 0.1 |
| 36.0 | 88.3 | 0.5 | 88.8 | 84.9 | 75.3 | 81.4 | 88.4 | 0.3 |
| 36.5 | 87.8 | 0.5 | 88.3 | 84.7 | 75.1 | 81.0 | 88.0 | 0.3 |
| 37.0 | 87.1 | 0.0 | 87.1 | 84.2 | 74.9 | 80.5 | 87.5 | 0.1 |
| 37.5 | 87.2 | 0.6 | 87.8 | 83.9 | 75.0 | 80.5 | 87.5 | 0.3 |
| 38.0 | 87.2 | 0.5 | 87.7 | 83.5 | 75.3 | 80.5 | 87.5 | 0.3 |
| 38.5 | 87.2 | 0.0 | 87.2 | 83.0 | 75.4 | 80.4 | 87.4 | 0.1 |
| 39.0 | 87.6 | 0.0 | 87.6 | 82.8 | 75.7 | 80.6 | 87.6 | 0.1 |
| 39.5 | 87.5 | 0.0 | 87.5 | 82.4 | 75.9 | 80.6 | 87.6 | 0.1 |
| 40.0 | 87.2 | 0.5 | 87.7 | 82.0 | 75.8 | 80.4 | 87.4 | 0.3 |
| 40.5 | 86.6 | 0.6 | 87.2 | 82.0 | 75.0 | 79.7 | 86.7 | 0.3 |
| 41.0 | 86.1 | 0.0 | 86.1 | 82.1 | 73.9 | 79.1 | 86.1 | 0.1 |
| 41.5 | 85.6 | 0.0 | 85.6 | 82.0 | 72.9 | 78.5 | 85.5 | 0.1 |
| 42.0 | 85.7 | 0.6 | 86.3 | 82.5 | 72.4 | 78.5 | 85.5 | 0.3 |
| 42.5 | 85.7 | 0.8 | 86.5 | 82.7 | 72.3 | 78.5 | 85.5 | 0.3 |
| 43.0 | 85.9 | 0.8 | 86.7 | 82.9 | 72.5 | 78.7 | 85.7 | 0.3 |
| 43.5 | 86.3 | 0.7 | 87.0 | 82.8 | 72.9 | 78.9 | 85.9 | 0.3 |
| 44.0 | 86.4 | 0.7 | 87.1 | 83.2 | 73.0 | 79.1 | 86.1 | 0.3 |

MAXIMUM VALUES IN BANDS, PNLC =101.7

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 83.6 | 85.4 | 81.2 | 84.8 | 88.2 | 89.7 | 88.7 | 87.0 | 85.3 | 83.6 |
| 79.7 | 77.2 | 77.6 | 73.2 | 73.3 | 72.1 | 71.5 | 71.5 | 71.1 | 70.1 |
| 67.3 | 63.5 | 56.7 | 47.1 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77.9 | 77.7 | 74.7 | 72.1 | 80.9 | 87.3 | 88.3 | 86.7 | 84.4 | 83.2 |
| 78.0 | 75.7 | 77.6 | 73.0 | 73.0 | 71.5 | 71.3 | 71.5 | 71.1 | 70.1 |
| 67.3 | 63.0 | 54.9 | 45.9 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 2.0 | 2.5 | | | | | | |
| PNL | 23.5 | 100.5 | 17.0 | 109.3 | 43.5 | 110.0 | 101.0 | 102.1 |
| PNLT | 23.0 | 101.3 | 16.5 | 109.9 | 44.0 | 110.7 | 101.7 | 103.0 |
| A-LEV | 23.0 | 87.1 | 17.0 | 95.8 | 43.5 | 96.5 | 87.6 | 88.7 |
| N-LEV | 23.0 | 100.3 | 17.0 | 109.1 | 44.0 | 109.9 | 100.8 | 102.0 |

EPNL = 99.9

MAN ACOUSTICS, EVENT #21

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 63.5 | 0.6 | 64.1 | 66.1 | 52.0 | 59.4 | 66.4 | 0.7 |
| 0.5 | 66.2 | 0.8 | 67.0 | 68.7 | 55.0 | 62.0 | 69.0 | 0.2 |
| 1.0 | 70.3 | 1.1 | 71.4 | 70.6 | 58.8 | 65.1 | 72.1 | 1.3 |
| 1.5 | 74.3 | 0.5 | 74.8 | 73.2 | 62.7 | 68.5 | 75.5 | 0.2 |
| 2.0 | 77.2 | 0.6 | 77.9 | 74.6 | 65.3 | 70.8 | 77.8 | 0.3 |
| 2.5 | 79.6 | 0.0 | 79.6 | 76.1 | 67.3 | 72.7 | 79.7 | 0.1 |
| 3.0 | 80.5 | 0.0 | 80.5 | 76.9 | 68.4 | 73.7 | 80.7 | 0.1 |
| 3.5 | 81.7 | 0.0 | 81.7 | 78.0 | 70.1 | 75.0 | 82.0 | 0.1 |
| 4.0 | 83.9 | 1.5 | 85.4 | 80.0 | 72.5 | 77.1 | 84.1 | 0.4 |
| 4.5 | 85.5 | 1.7 | 87.2 | 82.1 | 74.2 | 78.9 | 85.9 | 0.4 |
| 5.0 | 87.6 | 1.7 | 89.3 | 84.2 | 76.4 | 81.0 | 88.0 | 0.4 |
| 5.5 | 90.3 | 1.7 | 92.0 | 87.1 | 79.0 | 83.6 | 90.6 | 0.4 |
| 6.0 | 92.9 | 1.7 | 94.6 | 89.5 | 81.8 | 86.2 | 93.2 | 0.4 |
| 6.5 | 94.8 | 1.6 | 96.4 | 90.7 | 84.0 | 88.1 | 95.1 | 0.4 |
| 7.0 | 96.0 | 1.5 | 97.5 | 91.7 | 85.1 | 89.1 | 96.1 | 0.4 |
| 7.5 | 96.9 | 1.5 | 98.4 | 92.0 | 86.1 | 89.7 | 96.7 | 0.4 |
| 8.0 | 97.5 | 1.4 | 98.9 | 92.1 | 87.3 | 90.6 | 97.6 | 0.4 |
| 8.5 | 97.4 | 1.1 | 98.5 | 91.8 | 87.1 | 90.6 | 97.6 | 0.4 |
| 9.0 | 97.4 | 1.0 | 98.4 | 92.3 | 86.9 | 90.6 | 97.6 | 0.4 |
| 9.5 | 98.3 | 0.9 | 99.2 | 92.6 | 87.7 | 91.5 | 98.5 | 0.4 |
| 10.0 | 99.0 | 0.8 | 99.8 | 92.9 | 88.5 | 92.3 | 99.3 | 0.4 |
| 10.5 | 99.6 | 1.1 | 100.7 | 93.6 | 88.6 | 92.6 | 99.6 | 1.3 |
| 11.0 | 100.2 | 1.1 | 101.3 | 94.4 | 88.4 | 92.7 | 99.7 | 0.8 |
| 11.5 | 100.0 | 1.0 | 101.0 | 94.7 | 88.4 | 92.6 | 99.6 | 0.8 |
| 12.0 | 99.8 | 0.8 | 100.6 | 94.6 | 88.6 | 92.6 | 99.6 | 0.8 |
| 12.5 | 99.8 | 0.7 | 100.5 | 94.8 | 88.4 | 92.7 | 99.7 | 0.8 |
| 13.0 | 99.9 | 0.6 | 100.5 | 94.5 | 88.4 | 92.6 | 99.6 | 0.2 |
| 13.5 | 99.7 | 1.3 | 101.0 | 94.3 | 87.9 | 92.2 | 99.2 | 1.1 |
| 14.0 | 99.6 | 1.1 | 100.7 | 94.4 | 87.5 | 92.1 | 99.1 | 1.1 |
| 14.5 | 99.2 | 1.0 | 100.2 | 94.0 | 87.3 | 92.0 | 99.0 | 0.3 |
| 15.0 | 98.7 | 1.1 | 99.8 | 93.7 | 87.1 | 91.8 | 98.8 | 0.3 |
| 15.5 | 98.6 | 1.2 | 99.8 | 93.5 | 87.0 | 91.7 | 98.7 | 0.3 |
| 16.0 | 98.7 | 0.9 | 99.6 | 93.7 | 86.9 | 91.7 | 98.7 | 0.3 |
| 16.5 | 99.6 | 0.7 | 100.3 | 94.1 | 87.7 | 92.4 | 99.4 | 0.3 |
| 17.0 | 100.3 | 0.0 | 100.3 | 94.2 | 88.4 | 93.1 | 100.1 | 0.1 |
| 17.5 | 100.3 | 0.6 | 100.9 | 94.1 | 88.2 | 93.0 | 100.0 | 0.8 |
| 18.0 | 99.9 | 0.6 | 100.5 | 93.7 | 87.8 | 92.7 | 99.7 | 0.4 |
| 18.5 | 99.2 | 0.8 | 100.0 | 93.1 | 87.3 | 92.3 | 99.3 | 0.4 |
| 19.0 | 98.4 | 0.8 | 99.2 | 92.7 | 86.3 | 91.6 | 98.6 | 0.4 |
| 19.5 | 98.2 | 0.8 | 99.0 | 92.9 | 86.0 | 91.3 | 98.3 | 0.4 |
| 20.0 | 97.7 | 0.5 | 98.2 | 93.7 | 84.9 | 90.6 | 97.6 | 2.4 |
| 20.5 | 98.9 | 0.9 | 99.8 | 93.5 | 86.0 | 91.9 | 98.9 | 2.4 |
| 21.0 | 99.7 | 0.9 | 100.6 | 93.0 | 86.9 | 92.7 | 99.7 | 2.4 |
| 21.5 | 99.5 | 0.9 | 100.4 | 92.4 | 86.6 | 92.5 | 99.5 | 2.4 |
| 22.0 | 99.3 | 1.0 | 100.3 | 91.8 | 86.8 | 92.4 | 99.4 | 2.4 |
| 22.5 | 99.2 | 1.0 | 100.2 | 91.4 | 86.9 | 92.4 | 99.4 | 2.4 |
| 23.0 | 98.8 | 1.0 | 99.8 | 91.3 | 86.6 | 92.0 | 99.0 | 2.4 |
| 23.5 | 98.9 | 1.0 | 99.9 | 91.6 | 86.7 | 92.1 | 99.1 | 2.4 |
| 24.0 | 99.9 | 1.0 | 100.9 | 91.7 | 88.0 | 93.4 | 100.4 | 2.4 |
| 24.5 | 100.0 | 1.1 | 101.1 | 91.4 | 87.8 | 93.4 | 100.4 | 2.4 |
| 25.0 | 99.9 | 1.1 | 101.0 | 91.1 | 87.5 | 93.3 | 100.3 | 2.4 |
| 25.5 | 99.4 | 1.1 | 100.5 | 90.9 | 86.7 | 92.8 | 99.8 | 2.4 |
| 26.0 | 99.5 | 1.1 | 100.6 | 91.2 | 86.6 | 92.8 | 99.8 | 2.4 |
| 26.5 | 99.5 | 1.1 | 100.6 | 91.5 | 86.8 | 92.8 | 99.8 | 2.4 |
| 27.0 | 99.7 | 1.2 | 100.9 | 91.2 | 87.0 | 93.1 | 100.1 | 2.4 |
| 27.5 | 100.3 | 1.1 | 101.4 | 91.4 | 87.6 | 93.7 | 100.7 | 2.4 |
| 28.0 | 99.9 | 1.1 | 101.0 | 91.3 | 87.1 | 93.3 | 100.3 | 2.4 |
| 28.5 | 100.4 | 1.1 | 101.5 | 91.7 | 87.9 | 93.9 | 100.9 | 1.1 |
| 29.0 | 100.6 | 1.2 | 101.8 | 91.5 | 88.1 | 94.1 | 101.1 | 1.1 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 100.8 | 1.3 | 102.1 | 91.4 | 88.4 | 94.3 | 101.3 | 2.4 |
| 30.0 | 100.6 | 1.2 | 101.8 | 91.6 | 88.2 | 94.1 | 101.1 | 2.4 |
| 30.5 | 100.8 | 1.2 | 102.0 | 91.9 | 88.6 | 94.5 | 101.5 | 2.4 |
| 31.0 | 101.1 | 1.1 | 102.2 | 92.0 | 89.0 | 94.8 | 101.8 | 1.3 |
| 31.5 | 100.8 | 1.3 | 102.1 | 91.9 | 88.5 | 94.3 | 101.3 | 1.3 |
| 32.0 | 100.1 | 1.5 | 101.6 | 91.7 | 87.5 | 93.4 | 100.4 | 1.3 |
| 32.5 | 100.1 | 1.5 | 101.6 | 91.7 | 87.7 | 93.5 | 100.5 | 1.3 |
| 33.0 | 100.6 | 1.4 | 102.0 | 92.0 | 88.3 | 94.0 | 101.0 | 1.3 |
| 33.5 | 100.9 | 1.6 | 102.5 | 92.4 | 88.6 | 94.3 | 101.3 | 1.3 |
| 34.0 | 100.6 | 1.5 | 102.1 | 92.1 | 88.2 | 94.1 | 101.1 | 1.3 |
| 34.5 | 101.0 | 1.7 | 102.7 | 92.4 | 88.8 | 94.7 | 101.7 | 1.3 |
| 35.0 | 101.1 | 1.7 | 102.8 | 92.5 | 88.8 | 94.7 | 101.7 | 1.3 |
| 35.5 | 100.8 | 1.7 | 102.5 | 92.2 | 88.2 | 94.1 | 101.1 | 1.3 |
| 36.0 | 101.4 | 1.8 | 103.2 | 92.0 | 88.6 | 94.8 | 101.8 | 1.3 |
| 36.5 | 100.8 | 1.8 | 102.6 | 91.5 | 88.0 | 94.1 | 101.1 | 1.3 |
| 37.0 | 100.3 | 1.7 | 102.0 | 91.4 | 87.5 | 93.7 | 100.7 | 1.3 |
| 37.5 | 100.5 | 1.8 | 102.3 | 91.6 | 87.6 | 93.7 | 100.7 | 1.3 |
| 38.0 | 100.5 | 1.9 | 102.4 | 91.8 | 87.6 | 93.8 | 100.8 | 1.3 |
| 38.5 | 100.8 | 1.9 | 102.7 | 92.0 | 88.0 | 94.2 | 101.2 | 1.3 |
| 39.0 | 101.0 | 1.8 | 102.8 | 92.2 | 88.0 | 94.4 | 101.4 | 1.3 |
| 39.5 | 101.5 | 1.8 | 103.3 | 92.2 | 88.4 | 94.9 | 101.9 | 1.3 |
| 40.0 | 101.7 | 1.7 | 103.4 | 92.2 | 88.6 | 95.1 | 102.1 | 1.3 |
| 40.5 | 101.8 | 1.8 | 103.6 | 92.2 | 88.8 | 95.2 | 102.2 | 1.3 |
| 41.0 | 102.1 | 1.5 | 103.6 | 92.2 | 89.1 | 95.6 | 102.6 | 1.3 |
| 41.5 | 101.9 | 1.8 | 103.7 | 92.2 | 89.0 | 95.3 | 102.3 | 1.3 |
| 42.0 | 101.9 | 1.8 | 103.7 | 92.3 | 89.1 | 95.4 | 102.4 | 1.3 |
| 42.5 | 102.2 | 1.9 | 104.1 | 92.1 | 89.1 | 95.7 | 102.7 | 1.3 |
| 43.0 | 102.3 | 1.8 | 104.1 | 92.0 | 89.4 | 95.9 | 102.9 | 1.3 |
| 43.5 | 102.7 | 1.5 | 104.2 | 92.2 | 89.7 | 96.3 | 103.3 | 1.3 |
| 44.0 | 103.1 | 1.2 | 104.3 | 92.5 | 90.0 | 96.6 | 103.6 | 1.3 |
| 44.5 | 103.0 | 0.0 | 103.0 | 92.2 | 89.8 | 96.6 | 103.6 | 0.1 |
| 45.0 | 102.9 | 0.9 | 103.8 | 92.3 | 89.8 | 96.6 | 103.6 | 0.9 |
| 45.5 | 103.0 | 0.7 | 103.7 | 92.4 | 89.7 | 96.6 | 103.6 | 0.2 |
| 46.0 | 102.7 | 0.5 | 103.2 | 92.4 | 89.2 | 96.1 | 103.1 | 0.2 |
| 46.5 | 102.7 | 1.3 | 104.0 | 92.2 | 89.0 | 96.1 | 103.1 | 1.2 |
| 47.0 | 102.6 | 1.3 | 103.9 | 91.8 | 88.8 | 96.0 | 103.0 | 1.2 |
| 47.5 | 102.6 | 1.1 | 103.7 | 91.7 | 88.8 | 96.2 | 103.2 | 1.2 |
| 48.0 | 102.7 | 1.3 | 104.0 | 92.0 | 89.2 | 96.4 | 103.4 | 1.2 |
| 48.5 | 103.1 | 1.1 | 104.2 | 92.4 | 89.7 | 96.7 | 103.7 | 1.2 |
| 49.0 | 103.3 | 1.0 | 104.3 | 92.7 | 89.8 | 96.8 | 103.8 | 0.7 |
| 49.5 | 103.3 | 1.0 | 104.3 | 93.1 | 89.8 | 96.8 | 103.8 | 0.7 |
| 50.0 | 103.5 | 0.9 | 104.4 | 93.2 | 89.8 | 96.8 | 103.8 | 0.8 |
| 50.5 | 103.5 | 0.7 | 104.2 | 93.0 | 89.7 | 96.8 | 103.8 | 0.8 |
| 51.0 | 103.4 | 0.8 | 104.2 | 92.9 | 89.7 | 96.8 | 103.8 | 0.8 |
| 51.5 | 103.1 | 0.5 | 103.6 | 92.6 | 89.4 | 96.6 | 103.6 | 0.3 |
| 52.0 | 103.0 | 0.0 | 103.0 | 92.4 | 89.3 | 96.4 | 103.4 | 0.1 |

MAXIMUM VALUES IN BANDS, PNLC =105.7

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 87.0 | 87.7 | 89.3 | 86.2 | 84.3 | 83.7 | 83.1 | 88.0 | 84.6 | 85.6 |
| 84.8 | 82.6 | 83.6 | 82.8 | 79.9 | 79.6 | 79.4 | 79.4 | 78.7 | 77.5 |
| 75.5 | 72.0 | 65.0 | 53.4 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77.8 | 80.6 | 82.3 | 79.9 | 75.4 | 73.8 | 81.3 | 85.8 | 83.8 | 78.1 |
| 77.2 | 79.7 | 77.7 | 77.8 | 78.7 | 79.6 | 79.1 | 79.0 | 78.4 | 77.2 |
| 75.2 | 71.7 | 64.7 | 53.0 | | | | | | |

| | TIME | MAX | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 38.0 | 1.9 | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PNL | 50.0 | 103.5 | 46.0 | 117.4 | 48.5 | 117.4 | 108.4 | 105.6 |
| PNLT | 50.0 | 104.4 | 46.5 | 118.6 | 48.5 | 118.6 | 109.3 | 106.5 |
| A-LEV | 44.0 | 90.0 | 46.5 | 104.8 | 49.0 | 104.8 | 94.9 | 92.1 |
| N-LEV | 49.0 | 103.8 | 46.0 | 117.7 | 48.5 | 117.7 | 108.7 | 105.9 |

EPNL =108.6

MAN ACOUSTICS, EVENT #22

| T | PNL | P. T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 80.3 | 1.9 | 82.2 | 77.4 | 68.4 | 73.7 | 80.7 | 0.7 |
| 0.5 | 85.2 | 1.7 | 86.9 | 82.0 | 72.6 | 78.2 | 85.2 | 0.7 |
| 1.0 | 89.4 | 1.1 | 90.5 | 86.2 | 76.8 | 82.4 | 89.4 | 0.7 |
| 1.5 | 91.2 | 1.2 | 92.4 | 88.2 | 79.1 | 84.5 | 91.5 | 0.7 |
| 2.0 | 91.8 | 1.3 | 93.1 | 89.0 | 79.6 | 85.1 | 92.1 | 0.7 |
| 2.5 | 91.7 | 1.2 | 92.9 | 89.2 | 79.8 | 85.2 | 92.2 | 0.7 |
| 3.0 | 91.6 | 1.1 | 92.7 | 89.0 | 79.6 | 85.0 | 92.0 | 0.7 |
| 3.5 | 91.6 | 1.1 | 92.7 | 88.9 | 79.0 | 84.7 | 91.7 | 0.7 |
| 4.0 | 91.6 | 1.1 | 92.7 | 89.0 | 78.8 | 84.6 | 91.6 | 0.7 |
| 4.5 | 91.8 | 1.1 | 92.9 | 89.1 | 79.6 | 85.0 | 92.0 | 0.4 |
| 5.0 | 92.1 | 1.2 | 93.3 | 89.0 | 80.3 | 85.3 | 92.3 | 0.4 |
| 5.5 | 92.5 | 1.3 | 93.8 | 89.3 | 80.6 | 85.6 | 92.6 | 0.4 |
| 6.0 | 93.0 | 1.4 | 94.4 | 89.7 | 81.0 | 86.1 | 93.1 | 0.4 |
| 6.5 | 93.5 | 1.5 | 95.0 | 90.4 | 81.8 | 86.7 | 93.7 | 0.4 |
| 7.0 | 93.9 | 1.6 | 95.5 | 90.8 | 81.9 | 87.1 | 94.1 | 0.4 |
| 7.5 | 94.1 | 1.6 | 95.7 | 91.1 | 81.7 | 87.2 | 94.2 | 0.4 |
| 8.0 | 94.2 | 1.6 | 95.8 | 91.3 | 82.2 | 87.5 | 94.5 | 0.4 |
| 8.5 | 94.3 | 1.5 | 95.8 | 91.4 | 82.4 | 87.6 | 94.6 | 0.4 |
| 9.0 | 94.2 | 1.5 | 95.7 | 91.3 | 81.6 | 87.2 | 94.2 | 0.4 |
| 9.5 | 94.1 | 1.5 | 95.6 | 91.2 | 81.5 | 87.0 | 94.0 | 0.4 |
| 10.0 | 94.2 | 1.3 | 95.5 | 91.0 | 81.9 | 87.3 | 94.3 | 0.4 |
| 10.5 | 94.2 | 1.5 | 95.7 | 90.8 | 82.3 | 87.5 | 94.5 | 0.4 |
| 11.0 | 94.2 | 1.6 | 95.8 | 90.3 | 82.5 | 87.6 | 94.6 | 0.4 |
| 11.5 | 94.5 | 1.6 | 96.1 | 90.5 | 82.6 | 87.8 | 94.8 | 0.4 |
| 12.0 | 94.7 | 1.6 | 96.3 | 91.1 | 82.4 | 87.9 | 94.9 | 0.4 |
| 12.5 | 95.0 | 1.6 | 96.6 | 91.0 | 82.6 | 88.1 | 95.1 | 0.4 |
| 13.0 | 95.4 | 1.7 | 97.1 | 91.2 | 83.2 | 88.4 | 95.4 | 0.4 |
| 13.5 | 95.9 | 1.8 | 97.7 | 91.5 | 83.5 | 88.7 | 95.7 | 0.4 |
| 14.0 | 96.4 | 1.7 | 98.1 | 91.7 | 83.8 | 89.0 | 96.0 | 0.4 |
| 14.5 | 96.7 | 1.9 | 98.6 | 91.5 | 84.2 | 89.3 | 96.3 | 0.7 |
| 15.0 | 96.8 | 2.0 | 98.8 | 91.3 | 84.1 | 89.4 | 96.4 | 0.7 |
| 15.5 | 96.7 | 2.1 | 98.8 | 91.1 | 84.2 | 89.5 | 96.5 | 0.7 |
| 16.0 | 96.8 | 2.2 | 99.0 | 91.0 | 84.5 | 89.9 | 96.9 | 0.7 |
| 16.5 | 97.1 | 2.2 | 99.3 | 90.9 | 85.0 | 90.3 | 97.3 | 0.7 |
| 17.0 | 97.3 | 2.2 | 99.5 | 90.8 | 85.2 | 90.6 | 97.6 | 0.7 |
| 17.5 | 97.5 | 2.2 | 99.7 | 90.8 | 85.5 | 91.0 | 98.0 | 0.7 |
| 18.0 | 98.3 | 2.2 | 100.5 | 91.1 | 86.5 | 91.9 | 98.9 | 0.7 |
| 18.5 | 99.0 | 2.0 | 101.0 | 91.4 | 87.1 | 92.7 | 99.7 | 0.4 |
| 19.0 | 99.6 | 2.2 | 101.8 | 91.8 | 87.5 | 93.3 | 100.3 | 0.7 |
| 19.5 | 100.3 | 2.2 | 102.5 | 91.9 | 88.0 | 94.0 | 101.0 | 0.7 |
| 20.0 | 101.0 | 2.2 | 103.2 | 91.8 | 88.6 | 94.7 | 101.7 | 0.7 |
| 20.5 | 101.5 | 2.0 | 103.5 | 91.5 | 89.1 | 95.3 | 102.3 | 0.7 |
| 21.0 | 101.7 | 1.8 | 103.5 | 91.3 | 89.2 | 95.4 | 102.4 | 0.7 |
| 21.5 | 102.0 | 1.8 | 103.8 | 91.7 | 89.7 | 95.6 | 102.6 | 0.4 |
| 22.0 | 102.3 | 2.0 | 104.3 | 92.1 | 90.0 | 95.9 | 102.9 | 0.4 |
| 22.5 | 102.4 | 2.3 | 104.7 | 92.5 | 90.2 | 96.0 | 103.0 | 0.4 |
| 23.0 | 102.2 | 2.4 | 104.6 | 93.0 | 89.7 | 95.6 | 102.6 | 0.4 |
| 23.5 | 102.5 | 2.5 | 105.0 | 93.3 | 89.6 | 95.8 | 102.8 | 0.4 |
| 24.0 | 102.7 | 2.5 | 105.2 | 93.2 | 89.6 | 96.1 | 103.1 | 0.3 |
| 24.5 | 102.8 | 2.6 | 105.4 | 93.4 | 89.6 | 96.1 | 103.1 | 0.3 |
| 25.0 | 102.8 | 2.5 | 105.3 | 93.1 | 89.5 | 96.1 | 103.1 | 0.3 |
| 25.5 | 103.1 | 2.4 | 105.5 | 93.0 | 89.9 | 96.5 | 103.5 | 0.4 |
| 26.0 | 103.2 | 2.3 | 105.5 | 93.0 | 90.2 | 96.7 | 103.7 | 0.4 |
| 26.5 | 103.2 | 2.3 | 105.5 | 93.2 | 90.3 | 96.7 | 103.7 | 0.3 |
| 27.0 | 103.4 | 2.0 | 105.4 | 93.0 | 90.7 | 97.0 | 104.0 | 0.4 |
| 27.5 | 103.3 | 2.0 | 105.3 | 92.7 | 90.6 | 97.1 | 104.1 | 0.4 |
| 28.0 | 103.4 | 1.7 | 105.1 | 92.5 | 90.5 | 97.1 | 104.1 | 0.4 |
| 28.5 | 103.3 | 1.8 | 105.1 | 92.5 | 90.5 | 97.0 | 104.0 | 0.7 |
| 29.0 | 103.1 | 1.8 | 104.9 | 92.5 | 90.4 | 96.8 | 103.8 | 0.7 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 29.5 | 102.9 | 2.0 | 104.9 | 92.4 | 90.2 | 96.6 | 103.6 | | 0.7 |
| 30.0 | 102.8 | 2.1 | 104.9 | 92.5 | 90.2 | 96.5 | 103.5 | | 0.7 |
| 30.5 | 103.0 | 2.1 | 105.1 | 92.6 | 90.3 | 96.7 | 103.7 | | 0.7 |
| 31.0 | 102.8 | 2.2 | 105.0 | 92.6 | 90.2 | 96.6 | 103.6 | | 0.7 |
| 31.5 | 102.9 | 2.2 | 105.1 | 92.5 | 90.3 | 96.7 | 103.7 | | 0.7 |
| 32.0 | 102.7 | 2.2 | 104.9 | 92.5 | 90.3 | 96.5 | 103.5 | | 0.7 |
| 32.5 | 103.0 | 2.0 | 105.0 | 92.3 | 90.4 | 96.8 | 103.8 | | 0.7 |
| 33.0 | 102.9 | 2.0 | 104.9 | 92.2 | 90.4 | 96.8 | 103.8 | | 0.7 |
| 33.5 | 103.2 | 2.0 | 105.2 | 92.3 | 90.8 | 97.2 | 104.2 | | 0.7 |
| 34.0 | 103.2 | 1.9 | 105.1 | 92.4 | 90.7 | 97.1 | 104.1 | | 0.7 |
| 34.5 | 103.0 | 1.9 | 104.9 | 92.4 | 90.6 | 97.1 | 104.1 | | 0.7 |
| 35.0 | 103.1 | 1.8 | 104.9 | 92.5 | 90.8 | 97.2 | 104.2 | | 0.7 |
| 35.5 | 102.6 | 1.7 | 104.3 | 92.5 | 90.4 | 96.5 | 103.5 | | 0.7 |
| 36.0 | 102.6 | 1.7 | 104.3 | 92.2 | 90.3 | 96.4 | 103.4 | | 0.7 |
| 36.5 | 102.6 | 1.7 | 104.3 | 92.0 | 90.4 | 96.5 | 103.5 | | 0.7 |
| 37.0 | 102.7 | 1.7 | 104.4 | 92.0 | 90.5 | 96.8 | 103.8 | | 0.7 |
| 37.5 | 102.9 | 1.7 | 104.6 | 91.9 | 90.6 | 96.9 | 103.9 | | 0.7 |
| 38.0 | 103.0 | 1.8 | 104.8 | 91.8 | 90.6 | 97.1 | 104.1 | | 0.7 |
| 38.5 | 103.1 | 1.7 | 104.8 | 91.7 | 90.7 | 97.3 | 104.3 | | 0.7 |
| 39.0 | 102.9 | 1.7 | 104.6 | 91.6 | 90.5 | 97.2 | 104.2 | | 0.7 |
| 39.5 | 102.8 | 1.8 | 104.6 | 92.0 | 90.6 | 97.1 | 104.1 | | 0.7 |
| 40.0 | 102.9 | 2.0 | 104.9 | 92.3 | 90.5 | 97.1 | 104.1 | | 0.7 |
| 40.5 | 102.6 | 2.1 | 104.7 | 92.3 | 90.1 | 96.8 | 103.8 | | 0.7 |
| 41.0 | 102.7 | 2.1 | 104.8 | 92.4 | 90.1 | 96.9 | 103.9 | | 0.7 |
| 41.5 | 102.3 | 2.2 | 104.5 | 92.5 | 89.9 | 96.4 | 103.4 | | 0.7 |
| 42.0 | 102.0 | 2.1 | 104.1 | 92.6 | 89.8 | 96.0 | 103.0 | | 0.7 |
| 42.5 | 102.1 | 2.1 | 104.2 | 92.4 | 90.1 | 96.1 | 103.1 | | 0.7 |
| 43.0 | 102.2 | 2.1 | 104.3 | 92.6 | 90.3 | 96.2 | 103.2 | | 0.7 |
| 43.5 | 102.2 | 2.3 | 104.5 | 92.9 | 90.3 | 96.2 | 103.2 | | 0.7 |
| 44.0 | 101.9 | 2.4 | 104.3 | 93.0 | 90.1 | 96.0 | 103.0 | | 0.7 |
| 44.5 | 101.5 | 2.3 | 103.8 | 92.4 | 89.5 | 95.5 | 102.5 | | 0.7 |
| 45.0 | 101.2 | 2.4 | 103.6 | 92.2 | 89.2 | 95.1 | 102.1 | | 0.7 |
| 45.5 | 101.4 | 2.4 | 103.8 | 92.3 | 89.4 | 95.2 | 102.2 | | 0.7 |
| 46.0 | 101.7 | 2.3 | 104.0 | 92.2 | 89.8 | 95.5 | 102.5 | | 0.7 |
| 46.5 | 102.1 | 2.3 | 104.4 | 92.5 | 90.3 | 96.1 | 103.1 | | 0.7 |
| 47.0 | 102.5 | 2.3 | 104.8 | 92.6 | 90.4 | 96.4 | 103.4 | | 0.7 |
| 47.5 | 102.2 | 2.5 | 104.7 | 92.7 | 90.5 | 96.1 | 103.1 | | 0.7 |
| 48.0 | 102.3 | 2.3 | 104.6 | 92.7 | 90.5 | 96.2 | 103.2 | | 0.7 |
| 48.5 | 102.4 | 2.3 | 104.7 | 92.6 | 90.4 | 96.1 | 103.1 | | 0.7 |
| 49.0 | 102.2 | 2.3 | 104.5 | 92.5 | 90.2 | 95.9 | 102.9 | | 0.7 |
| 49.5 | 102.4 | 2.4 | 104.8 | 92.4 | 90.1 | 96.1 | 103.1 | | 0.7 |
| 50.0 | 102.5 | 2.4 | 104.9 | 92.2 | 89.9 | 96.3 | 103.3 | | 0.7 |
| 50.5 | 102.8 | 2.3 | 105.1 | 92.2 | 90.1 | 96.6 | 103.6 | | 0.7 |
| 51.0 | 103.1 | 2.2 | 105.3 | 92.4 | 90.3 | 96.9 | 103.9 | | 0.7 |
| 51.5 | 103.5 | 2.1 | 105.6 | 92.8 | 90.6 | 97.3 | 104.3 | | 0.7 |
| 52.0 | 103.5 | 2.0 | 105.5 | 93.0 | 90.6 | 97.2 | 104.2 | | 0.4 |
| 52.5 | 103.7 | 2.2 | 105.9 | 93.0 | 90.8 | 97.5 | 104.5 | | 0.4 |

MAXIMUM VALUES IN BANDS, PNLC =105.4

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 81.0 | 75.7 | 82.7 | 88.6 | 83.7 | 81.9 | 89.0 | 80.5 | 84.5 | 83.1 |
| 80.6 | 80.7 | 81.3 | 82.2 | 82.6 | 82.0 | 81.6 | 80.9 | 79.0 | 77.4 |
| 73.6 | 69.8 | 63.9 | 54.5 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 68.2 | 68.3 | 80.1 | 81.4 | 68.4 | 81.5 | 86.2 | 79.5 | 73.3 | 78.1 |
| 77.0 | 80.1 | 80.1 | 79.9 | 80.9 | 81.6 | 81.6 | 80.9 | 78.7 | 76.0 |
| 71.5 | 66.9 | 59.7 | 50.2 | | | | | | |

| TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| P.T. | 24.5 | 2.6 | | | | | | |
| PNL | 52.5 | 103.7 | 46.5 | 118.2 | 53.0 | 118.3 | 108.6 | 106.2 |
| PNLT | 52.5 | 105.9 | 42.0 | 120.3 | 53.0 | 120.4 | 110.4 | 108.4 |
| A-LEV | 33.5 | 90.8 | 47.0 | 105.7 | 52.5 | 105.8 | 95.8 | 93.2 |
| N-LEV | 52.5 | 104.5 | 42.5 | 119.0 | 53.0 | 119.1 | 109.0 | 107.0 |

EPNL =110.3

MAN ACOUSTICS, EVENT #23

| T | PNL | P. T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 84.7 | 0.5 | 85.2 | 84.6 | 69.2 | 78.0 | 85.0 | 0.4 |
| 0.5 | 86.0 | 0.6 | 86.6 | 85.4 | 70.7 | 79.1 | 86.1 | 0.4 |
| 1.0 | 86.7 | 0.5 | 87.2 | 86.0 | 71.7 | 79.8 | 86.8 | 0.4 |
| 1.5 | 87.4 | 0.0 | 87.4 | 86.1 | 72.8 | 80.5 | 87.5 | 0.1 |
| 2.0 | 87.2 | 0.0 | 87.2 | 86.8 | 72.4 | 80.4 | 87.4 | 0.1 |
| 2.5 | 87.2 | 0.0 | 87.2 | 86.8 | 72.1 | 80.3 | 87.3 | 0.1 |
| 3.0 | 87.1 | 0.0 | 87.1 | 86.9 | 72.0 | 80.3 | 87.3 | 0.1 |
| 3.5 | 87.4 | 0.0 | 87.4 | 87.5 | 71.4 | 80.4 | 87.4 | 0.1 |
| 4.0 | 87.3 | 0.0 | 87.3 | 87.7 | 71.0 | 80.4 | 87.4 | 0.1 |
| 4.5 | 87.3 | 0.6 | 87.9 | 87.9 | 71.0 | 80.5 | 87.5 | 2.4 |
| 5.0 | 87.2 | 0.6 | 87.8 | 87.7 | 70.9 | 80.4 | 87.4 | 2.4 |
| 5.5 | 87.4 | 0.7 | 88.1 | 88.0 | 71.2 | 80.7 | 87.7 | 0.8 |
| 6.0 | 87.4 | 0.8 | 88.2 | 88.3 | 71.4 | 80.9 | 87.9 | 0.8 |
| 6.5 | 87.4 | 0.7 | 88.1 | 88.3 | 71.5 | 81.0 | 88.0 | 0.8 |
| 7.0 | 87.5 | 0.8 | 88.3 | 89.0 | 71.6 | 81.3 | 88.3 | 0.8 |
| 7.5 | 87.8 | 0.7 | 88.5 | 89.0 | 72.0 | 81.5 | 88.5 | 0.8 |
| 8.0 | 88.1 | 0.7 | 88.8 | 89.3 | 72.3 | 81.8 | 88.8 | 0.8 |
| 8.5 | 88.7 | 0.7 | 89.6 | 89.9 | 72.9 | 82.4 | 89.4 | 0.8 |
| 9.0 | 89.3 | 0.7 | 90.0 | 89.9 | 73.3 | 82.7 | 89.7 | 0.8 |
| 9.5 | 89.9 | 0.7 | 90.6 | 90.2 | 73.9 | 83.1 | 90.1 | 0.8 |
| 10.0 | 90.6 | 0.8 | 91.4 | 90.1 | 75.1 | 83.7 | 90.7 | 0.8 |
| 10.5 | 91.2 | 0.7 | 91.9 | 90.1 | 76.3 | 84.5 | 91.5 | 0.8 |
| 11.0 | 91.6 | 0.7 | 92.3 | 90.3 | 76.9 | 84.8 | 91.8 | 0.8 |
| 11.5 | 91.9 | 0.7 | 92.6 | 90.6 | 77.0 | 85.0 | 92.0 | 0.8 |
| 12.0 | 92.1 | 0.7 | 92.8 | 91.4 | 76.5 | 85.1 | 92.1 | 0.8 |
| 12.5 | 92.1 | 0.5 | 92.6 | 91.8 | 76.1 | 85.0 | 92.0 | 0.8 |
| 13.0 | 92.1 | 0.0 | 92.1 | 92.3 | 75.8 | 85.1 | 92.1 | 0.1 |
| 13.5 | 92.6 | 0.0 | 92.6 | 92.7 | 76.4 | 85.5 | 92.5 | 0.1 |
| 14.0 | 93.2 | 0.0 | 93.2 | 92.7 | 77.5 | 85.8 | 92.8 | 0.1 |
| 14.5 | 93.7 | 0.0 | 93.7 | 92.9 | 78.3 | 86.1 | 93.1 | 0.1 |
| 15.0 | 93.9 | 0.5 | 94.4 | 93.1 | 78.5 | 86.4 | 93.4 | 0.8 |
| 15.5 | 94.1 | 0.5 | 94.6 | 93.3 | 78.3 | 86.5 | 93.5 | 0.8 |
| 16.0 | 94.6 | 0.0 | 94.6 | 93.5 | 79.0 | 87.0 | 94.0 | 0.1 |
| 16.5 | 94.8 | 0.0 | 94.8 | 93.4 | 79.8 | 87.4 | 94.4 | 0.1 |
| 17.0 | 95.7 | 0.0 | 95.7 | 93.0 | 81.5 | 88.3 | 95.3 | 0.1 |
| 17.5 | 95.9 | 0.0 | 95.9 | 92.8 | 82.4 | 88.4 | 95.4 | 0.1 |
| 18.0 | 96.2 | 0.0 | 96.2 | 91.9 | 83.1 | 88.7 | 95.7 | 0.1 |
| 18.5 | 96.6 | 0.0 | 96.6 | 90.5 | 83.9 | 89.1 | 96.1 | 0.1 |
| 19.0 | 97.3 | 0.5 | 97.8 | 89.5 | 84.7 | 89.8 | 96.8 | 0.8 |
| 19.5 | 97.4 | 0.0 | 97.4 | 89.5 | 84.8 | 90.2 | 97.2 | 0.1 |
| 20.0 | 97.5 | 0.7 | 98.2 | 89.1 | 84.7 | 90.3 | 97.3 | 1.0 |
| 20.5 | 97.0 | 0.6 | 97.6 | 88.3 | 84.4 | 89.9 | 96.9 | 0.7 |
| 21.0 | 96.4 | 0.7 | 97.1 | 87.4 | 83.6 | 89.3 | 96.3 | 0.4 |
| 21.5 | 95.2 | 1.1 | 96.3 | 86.5 | 82.6 | 88.2 | 95.2 | 0.4 |
| 22.0 | 94.0 | 1.5 | 95.5 | 85.6 | 81.4 | 87.0 | 94.0 | 0.4 |
| 22.5 | 92.7 | 1.6 | 94.5 | 84.7 | 80.0 | 85.8 | 92.8 | 0.4 |
| 23.0 | 91.6 | 1.6 | 93.2 | 84.3 | 78.4 | 84.5 | 91.5 | 0.4 |
| 23.5 | 90.8 | 1.5 | 92.3 | 83.4 | 77.5 | 83.7 | 90.7 | 0.4 |
| 24.0 | 89.6 | 1.6 | 91.2 | 83.0 | 76.2 | 82.6 | 89.6 | 0.4 |
| 24.5 | 88.6 | 1.5 | 90.1 | 82.4 | 75.2 | 81.5 | 88.5 | 0.4 |
| 25.0 | 87.7 | 1.3 | 89.0 | 82.2 | 74.1 | 80.6 | 87.6 | 0.4 |
| 25.5 | 86.7 | 1.5 | 88.2 | 82.6 | 73.0 | 79.7 | 86.7 | 0.4 |
| 26.0 | 85.6 | 1.5 | 87.1 | 82.3 | 71.8 | 78.7 | 85.7 | 0.4 |
| 26.5 | 84.6 | 1.5 | 86.1 | 81.9 | 70.8 | 77.8 | 84.8 | 0.4 |
| 27.0 | 84.3 | 1.6 | 85.9 | 81.8 | 70.2 | 77.4 | 84.4 | 0.4 |

MAXIMUM VALUES IN BANDS, PNLC = 99.2 A-120

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 87.0 | 88.0 | 85.9 | 85.8 | 84.0 | 79.7 | 77.7 | 77.5 | 73.1 | 77.0 |
| 76.2 | 75.6 | 76.6 | 77.0 | 76.2 | 73.5 | 72.5 | 70.4 | 69.9 | 68.2 |
| 68.8 | 67.0 | 67.6 | 65.1 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 83.4 | 77.5 | 74.6 | 72.4 | 71.7 | 74.1 | 77.4 | 76.9 | 70.3 | 77.0 |
| 75.5 | 76.1 | 75.5 | 76.4 | 75.7 | 73.0 | 72.0 | 70.4 | 69.9 | 68.2 |
| 68.8 | 69.0 | 67.5 | 65.1 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 22.5 | 1.6 | | | | | | |
| PNL | 20.0 | 97.5 | 18.5 | 106.4 | 27.0 | 106.8 | 98.4 | 97.0 |
| PNLT | 20.0 | 98.2 | 19.0 | 106.9 | 27.0 | 107.3 | 99.2 | 97.7 |
| A-LEV | 19.5 | 84.8 | 15.5 | 92.5 | 27.0 | 92.9 | 84.9 | 84.3 |
| N-LEV | 20.0 | 97.3 | 22.5 | 106.4 | 27.0 | 106.6 | 99.1 | 96.8 |

EPNL = 96.9

MAN ACOUSTICS, EVENT #24

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 75.1 | 1.7 | 76.8 | 73.8 | 63.8 | 69.5 | 76.5 | 0.4 |
| 0.5 | 79.4 | 1.5 | 80.9 | 77.4 | 67.5 | 73.1 | 80.1 | 0.4 |
| 1.0 | 85.3 | 1.7 | 87.0 | 82.3 | 72.6 | 78.2 | 85.2 | 0.4 |
| 1.5 | 87.6 | 1.9 | 89.5 | 84.5 | 74.6 | 80.1 | 87.1 | 0.4 |
| 2.0 | 88.7 | 1.9 | 90.6 | 85.6 | 75.8 | 81.1 | 88.1 | 0.4 |
| 2.5 | 89.2 | 2.0 | 91.2 | 86.3 | 76.1 | 81.6 | 88.6 | 0.4 |
| 3.0 | 89.9 | 2.0 | 91.9 | 86.9 | 76.5 | 82.2 | 89.2 | 0.4 |
| 3.5 | 90.3 | 2.0 | 92.3 | 87.3 | 76.8 | 82.7 | 89.7 | 0.4 |
| 4.0 | 90.7 | 2.0 | 92.7 | 87.9 | 76.9 | 83.1 | 90.1 | 0.4 |
| 4.5 | 91.1 | 2.1 | 93.2 | 88.5 | 77.5 | 83.6 | 90.6 | 0.4 |
| 5.0 | 91.3 | 2.0 | 93.3 | 88.5 | 78.6 | 84.1 | 91.1 | 0.4 |
| 5.5 | 91.6 | 2.0 | 93.6 | 88.3 | 79.0 | 84.4 | 91.4 | 0.4 |
| 6.0 | 91.9 | 2.0 | 93.9 | 88.6 | 79.6 | 84.8 | 71.8 | 0.4 |
| 6.5 | 92.0 | 2.0 | 94.0 | 89.0 | 80.3 | 85.2 | 92.2 | 0.4 |
| 7.0 | 92.3 | 2.0 | 94.3 | 89.4 | 81.0 | 85.8 | 92.8 | 0.4 |
| 7.5 | 92.4 | 2.0 | 94.4 | 89.5 | 80.8 | 85.7 | 92.7 | 0.4 |
| 8.0 | 92.5 | 2.0 | 94.5 | 89.4 | 80.3 | 85.4 | 92.4 | 0.4 |
| 8.5 | 92.6 | 1.9 | 94.5 | 89.4 | 80.3 | 85.4 | 92.4 | 0.4 |
| 9.0 | 92.4 | 1.9 | 94.3 | 89.4 | 79.9 | 85.1 | 92.1 | 0.4 |
| 9.5 | 92.5 | 1.8 | 94.3 | 89.5 | 79.3 | 85.0 | 92.0 | 0.4 |
| 10.0 | 93.0 | 1.7 | 94.7 | 89.7 | 80.3 | 85.8 | 92.8 | 0.4 |
| 10.5 | 93.4 | 1.7 | 95.1 | 89.6 | 81.5 | 86.6 | 93.6 | 0.4 |
| 11.0 | 94.1 | 1.7 | 95.8 | 89.9 | 82.6 | 87.3 | 94.3 | 0.4 |
| 11.5 | 94.3 | 1.7 | 96.0 | 90.0 | 82.7 | 87.5 | 94.5 | 0.4 |
| 12.0 | 94.1 | 1.7 | 95.8 | 89.8 | 82.5 | 87.4 | 94.4 | 0.4 |
| 12.5 | 94.0 | 1.7 | 95.7 | 89.9 | 82.2 | 87.2 | 94.2 | 0.4 |
| 13.0 | 93.6 | 1.7 | 95.3 | 90.0 | 81.9 | 86.9 | 93.9 | 0.4 |
| 13.5 | 93.6 | 1.8 | 95.4 | 90.3 | 81.9 | 86.9 | 93.9 | 0.4 |
| 14.0 | 93.7 | 1.7 | 95.4 | 90.3 | 82.0 | 87.0 | 94.0 | 0.4 |
| 14.5 | 93.5 | 1.7 | 95.2 | 90.1 | 81.6 | 86.8 | 93.8 | 0.4 |
| 15.0 | 93.5 | 1.8 | 95.3 | 89.9 | 81.1 | 86.5 | 93.5 | 0.4 |
| 15.5 | 93.5 | 1.8 | 95.3 | 90.2 | 80.8 | 86.4 | 93.4 | 0.4 |
| 16.0 | 93.8 | 1.8 | 95.6 | 90.5 | 80.6 | 86.5 | 93.5 | 0.4 |
| 16.5 | 94.2 | 2.0 | 96.2 | 90.8 | 81.0 | 86.9 | 93.9 | 0.4 |
| 17.0 | 94.4 | 2.0 | 96.4 | 91.0 | 80.9 | 87.0 | 94.0 | 0.4 |
| 17.5 | 94.6 | 2.0 | 96.6 | 91.2 | 81.1 | 87.2 | 94.2 | 0.4 |
| 18.0 | 95.1 | 2.1 | 97.2 | 91.2 | 82.1 | 87.9 | 94.9 | 0.4 |
| 18.5 | 95.8 | 2.0 | 97.8 | 90.9 | 83.6 | 88.9 | 95.9 | 0.4 |
| 19.0 | 96.0 | 2.1 | 98.1 | 90.8 | 83.9 | 89.2 | 96.2 | 0.4 |
| 19.5 | 96.3 | 2.1 | 98.4 | 90.9 | 84.3 | 89.6 | 96.6 | 0.4 |
| 20.0 | 96.4 | 2.0 | 98.4 | 90.9 | 84.5 | 89.8 | 96.8 | 0.4 |
| 20.5 | 96.8 | 2.0 | 98.8 | 91.1 | 84.7 | 90.0 | 97.0 | 0.4 |
| 21.0 | 97.2 | 2.0 | 99.2 | 91.4 | 84.7 | 90.0 | 97.0 | 0.4 |
| 21.5 | 97.7 | 2.0 | 99.7 | 91.3 | 84.8 | 90.4 | 97.4 | 0.4 |
| 22.0 | 97.8 | 1.9 | 99.7 | 90.9 | 85.5 | 90.9 | 97.9 | 0.4 |
| 22.5 | 98.0 | 1.9 | 99.9 | 90.9 | 85.7 | 91.1 | 98.1 | 0.7 |
| 23.0 | 98.2 | 1.9 | 100.1 | 90.8 | 86.0 | 91.5 | 98.5 | 0.7 |
| 23.5 | 98.7 | 1.9 | 100.6 | 91.1 | 86.8 | 92.0 | 99.0 | 0.7 |
| 24.0 | 99.0 | 1.9 | 100.9 | 91.2 | 87.4 | 92.7 | 99.7 | 0.7 |
| 24.5 | 99.5 | 1.8 | 101.3 | 91.2 | 87.4 | 93.0 | 100.0 | 0.7 |
| 25.0 | 100.2 | 1.9 | 102.1 | 91.6 | 87.8 | 93.5 | 100.5 | 0.4 |
| 25.5 | 100.7 | 2.3 | 103.0 | 92.1 | 87.8 | 93.8 | 100.8 | 0.4 |
| 26.0 | 101.2 | 2.6 | 103.8 | 92.8 | 88.1 | 94.2 | 101.2 | 0.4 |
| 26.5 | 101.4 | 2.8 | 104.2 | 93.4 | 88.1 | 94.4 | 101.4 | 0.4 |
| 27.0 | 101.6 | 3.0 | 104.6 | 94.2 | 88.3 | 94.8 | 101.8 | 0.4 |
| 27.5 | 101.7 | 3.1 | 104.8 | 94.7 | 88.3 | 94.9 | 101.9 | 0.4 |
| 28.0 | 101.8 | 3.1 | 104.9 | 95.4 | 88.3 | 95.0 | 102.0 | 0.3 |
| 28.5 | 101.9 | 3.2 | 105.1 | 95.2 | 88.3 | 95.2 | 102.2 | 0.3 |
| 29.0 | 101.7 | 3.3 | 105.0 | 95.1 | 88.0 | 94.8 | 101.8 | 0.3 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 101.4 | 3.3 | 104.7 | 94.7 | 87.8 | 94.6 | 101.6 | 0.3 |
| 30.0 | 101.8 | 3.2 | 105.0 | 93.9 | 88.4 | 95.0 | 102.0 | 0.3 |
| 30.5 | 102.1 | 2.9 | 105.0 | 93.2 | 88.7 | 95.3 | 102.3 | 0.3 |
| 31.0 | 102.2 | 1.6 | 103.8 | 92.7 | 89.0 | 95.5 | 102.5 | 0.3 |
| 31.5 | 102.2 | 1.4 | 103.6 | 92.3 | 89.2 | 95.8 | 102.8 | 0.3 |
| 32.0 | 102.2 | 1.3 | 103.5 | 92.3 | 89.5 | 95.8 | 102.8 | 0.6 |
| 32.5 | 102.0 | 1.5 | 103.5 | 92.3 | 89.7 | 95.8 | 102.8 | 0.6 |
| 33.0 | 101.6 | 1.7 | 103.3 | 92.3 | 89.4 | 95.3 | 102.3 | 0.6 |
| 33.5 | 101.4 | 1.8 | 103.2 | 92.5 | 89.3 | 95.1 | 102.1 | 0.6 |
| 34.0 | 100.8 | 1.8 | 102.6 | 92.3 | 88.9 | 94.6 | 101.6 | 0.6 |
| 34.5 | 100.6 | 1.8 | 102.4 | 91.7 | 88.7 | 94.5 | 101.5 | 0.6 |
| 35.0 | 100.0 | 1.9 | 101.9 | 91.7 | 88.4 | 93.9 | 100.9 | 0.6 |
| 35.5 | 99.7 | 1.8 | 101.5 | 91.6 | 88.2 | 93.6 | 100.6 | 0.3 |
| 36.0 | 99.3 | 2.0 | 101.3 | 92.0 | 87.9 | 93.1 | 100.1 | 0.3 |
| 36.5 | 99.5 | 2.1 | 101.6 | 91.5 | 87.9 | 93.4 | 100.4 | 0.3 |
| 37.0 | 99.1 | 2.2 | 101.3 | 91.5 | 87.7 | 93.1 | 100.1 | 0.3 |
| 37.5 | 99.1 | 2.2 | 101.3 | 91.6 | 87.7 | 93.1 | 100.1 | 0.3 |
| 38.0 | 98.9 | 2.3 | 101.2 | 91.9 | 87.7 | 92.9 | 99.9 | 0.3 |
| 38.5 | 98.6 | 2.4 | 101.0 | 91.7 | 87.4 | 92.6 | 99.6 | 0.3 |
| 39.0 | 98.2 | 2.4 | 100.6 | 91.3 | 87.2 | 92.4 | 99.4 | 0.3 |
| 39.5 | 97.9 | 2.4 | 100.3 | 91.6 | 86.9 | 92.0 | 99.0 | 0.3 |
| 40.0 | 97.7 | 2.5 | 100.2 | 91.7 | 86.6 | 91.8 | 98.8 | 0.3 |
| 40.5 | 97.5 | 2.5 | 100.0 | 91.9 | 86.6 | 91.5 | 98.5 | 0.3 |
| 41.0 | 97.5 | 2.4 | 99.9 | 91.8 | 86.6 | 91.3 | 98.3 | 0.3 |
| 41.5 | 97.7 | 2.3 | 100.0 | 91.4 | 87.0 | 91.6 | 98.6 | 0.3 |
| 42.0 | 97.8 | 2.3 | 100.1 | 91.2 | 87.0 | 91.5 | 98.5 | 0.3 |
| 42.5 | 97.6 | 2.3 | 99.9 | 91.2 | 86.8 | 91.2 | 98.2 | 0.3 |
| 43.0 | 97.6 | 2.3 | 99.9 | 91.3 | 86.6 | 91.2 | 98.2 | 0.3 |
| 43.5 | 97.3 | 2.3 | 99.6 | 91.6 | 86.3 | 90.8 | 97.8 | 0.3 |
| 44.0 | 96.7 | 2.3 | 99.0 | 91.9 | 85.8 | 90.3 | 97.3 | 0.3 |
| 44.5 | 96.4 | 2.4 | 98.8 | 91.9 | 85.3 | 90.0 | 97.0 | 0.3 |
| 45.0 | 96.0 | 2.4 | 98.4 | 91.6 | 84.8 | 89.7 | 96.7 | 0.3 |
| 45.5 | 95.7 | 2.3 | 98.0 | 91.3 | 84.5 | 89.3 | 96.3 | 0.3 |
| 46.0 | 95.7 | 2.3 | 98.0 | 91.1 | 84.2 | 89.2 | 96.2 | 0.3 |
| 46.5 | 95.4 | 2.3 | 97.7 | 90.5 | 83.8 | 89.0 | 96.0 | 0.3 |
| 47.0 | 95.4 | 2.3 | 97.7 | 90.1 | 83.6 | 89.0 | 96.0 | 0.3 |
| 47.5 | 95.5 | 2.3 | 97.8 | 89.9 | 83.8 | 88.9 | 95.9 | 0.3 |
| 48.0 | 95.5 | 2.3 | 97.8 | 89.6 | 83.7 | 88.9 | 95.9 | 0.3 |
| 48.5 | 95.6 | 2.3 | 97.9 | 89.5 | 83.8 | 89.0 | 96.0 | 0.3 |
| 49.0 | 95.7 | 2.4 | 98.1 | 89.5 | 84.4 | 89.3 | 96.3 | 0.3 |
| 49.5 | 96.4 | 2.3 | 98.7 | 89.0 | 85.4 | 90.3 | 97.3 | 0.3 |
| 50.0 | 96.3 | 2.3 | 98.6 | 88.8 | 85.3 | 90.1 | 97.1 | 0.3 |
| 50.5 | 95.8 | 2.2 | 98.0 | 88.8 | 85.0 | 89.5 | 96.5 | 0.3 |
| 51.0 | 95.5 | 2.0 | 97.5 | 88.6 | 84.3 | 89.1 | 96.1 | 0.3 |
| 51.5 | 95.0 | 2.0 | 97.0 | 88.6 | 83.8 | 88.6 | 95.6 | 0.3 |
| 52.0 | 94.2 | 1.9 | 96.1 | 88.2 | 83.3 | 87.9 | 94.9 | 0.3 |
| 52.5 | 93.8 | 1.9 | 95.7 | 88.1 | 83.3 | 87.5 | 94.5 | 0.3 |

MAXIMUM VALUES IN BANDS, PNLC =104.3

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 81.2 | 70.9 | 69.3 | 92.4 | 80.3 | 87.0 | 87.6 | 85.7 | 83.2 | 80.8 |
| 79.5 | 79.0 | 80.1 | 80.6 | 81.3 | 80.7 | 80.7 | 79.0 | 76.5 | 74.0 |
| 69.6 | 66.9 | 62.5 | 53.1 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 68.9 | 65.0 | 68.6 | 91.9 | 78.3 | 72.7 | 75.8 | 83.6 | 78.7 | 80.0 |
| 75.4 | 75.0 | 78.0 | 78.7 | 78.4 | 77.3 | 78.0 | 77.7 | 76.4 | 73.0 |
| 69.3 | 66.9 | 61.7 | 51.7 | | | | | | |



| TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| P.T. | 29.0 | 3.3 | | | | | | |
| PNL | 31.0 | 102.2 | 46.0 | 114.8 | 52.0 | 114.9 | 107.1 | 104.6 |
| PNLT | 28.5 | 105.1 | 42.0 | 117.0 | 52.0 | 117.2 | 109.6 | 107.5 |
| A-LEV | 32.5 | 89.7 | 43.0 | 102.6 | 52.0 | 102.7 | 94.3 | 92.1 |
| N-LEV | 31.5 | 102.8 | 42.5 | 115.2 | 52.0 | 115.4 | 107.3 | 105.2 |

EPNL =107.0

# APPENDIX B

## FAA/TSC Data Set

## COMPARISON OF TSC AND BBN HELICOPTER ANALYSES

| Run | EPNL TSC dB | EPNL BBN dB | PNLTM TSC dB | PNLTM BBN dB | Max rms TSC dB | A-level BBN dB | T.C. BBN dB | T for A max BBN s | TSC Time OH s | TSC ΔT for A max to OH s |
|---|---|---|---|---|---|---|---|---|---|---|
| CH47C | | | | | | | | | | |
| 12 | 107.6 | 106.4 | 108.6 | 108.5 | 95.8 | 95.1 | 0.6 | 49.5 | 17.5 | 0 |
| 18 | 106.9 | 105.7 | 105.0 | 105.2 | 91.5 | 90.1 | 1.0 | 38.5 | 41.5 | -3.5 |
| 20 | 107.5 | 107.0 | 108.2 | 108.1 | 95.1 | 94.9 | 0.6 | 28.0 | 18.5 | 0.5 |
| 23 | - | 100.8 | 99.7 | 99.8 | 84.2 | 83.7 | 0.7 | 37.0 | 34.5 | 2.5 |
| 24 | 106.5 | 106.0 | 106.1 | 105.6 | 91.1 | 90.8 | 1.3 | 17.0 | 20 | -12.5 |
| 27 | 108.7 | 108.1 | 110.6 | 109.9 | 95.2 | 94.2 | 1.6 | 11.5 | 13 | -9.5 |
| 28 | 109.0 | 108.6 | 111.4 | 110.2 | 97.6 | 95.2 | 0.8 | 8.5 | 12.5 | -7.5 |
| 29 | 111.3 | 110.9 | 113.5 | 113.3 | 99.3 | 97.9 | 1.2 | 14.5 | 12.5 | -6.5 |
| 35 | 108.1 | 106.4 | 107.6 | 106.9 | 94.4 | 93.2 | 0.9 | 33.0 | 14 | 1.0 |
| Bell 206L | | | | | | | | | | |
| 46 | 89.0 | 87.8 | 87.9 | 87.7 | 76.4 | 74.4 | 1.1 | 23.0 | - | 0 |
| 71 | - | 86.2 | 89.1 | 88.0 | 75.4 | 73.5 | 1.7 | 13.0 | 29.0 | 0 |

## COMPARISON - TSC AND BBN HELICOPTER ANALYSES

| Run | EPNL TSC dB | EPNL BBN dB | PNLTM TSC dB | PNLTM BBN dB | Max rms TSC dB | A-level BBN dB | T.C BBN dB | T for A max BBN s | TSC Time OH s | TSC ΔT for A max to OH s |
|---|---|---|---|---|---|---|---|---|---|---|
| Bell 212 | | | | | | | | | | |
| 24 | 99.3 | | 98.0 | | 84.2 | | | | 31.5 | -3.5 |
| 27 | 100.6 | 99.2 | 99.3 | 98.2 | 85.2 | 83.3 | 1.2 | 28.0 | 26.5 | -3.0 |
| 31 | 96.0 | 94.3 | 92.7 | 92.0 | 78.8 | 78.0 | 0.7 | 22.5 | 47 | -3.0 |
| 32 | 96.7 | 94.2 | 97.2 | 96.1 | 83.7 | 82.0 | 0.7 | 8.5 | 19.5 | -2.0 |
| 36 | 98.3 | 96.3 | 99.9 | 97.5 | 86.0 | 83.5 | 0.6 | 16.0 | 21 | -2.5 |
| 37 | 99.3 | | 100.2 | | 85.5 | | | | 16.5 | -1.5 |
| 43 | 98.4 | 96.4 | 96.9 | 96.0 | 82.9 | 81.0 | 1.2 | 19.0 | 51 | -8.5 |
| S-61 | | | | | | | | | | |
| 16 | 91.7 | 91.8 | 92.7 | 94.1 | 80.4 | 80.0 | 1.7 | 19.5 | 20.0 | 1.5 |
| 18 | 92.4 | 91.6 | 91.3 | 92.8 | 80.2 | 79.7 | 1.7 | 16.5 | 19.5 | 0 |
| 20 | 95.1 | 95.2 | 97.0 | 96.5 | 84.6 | 83.1 | 0.7 | 11.0 | 10.5 | 2.5 |
| 34 | 91.4 | 92.2 | 94.9 | 96.0 | 83.5 | 83.1 | 1.7 | 6.0 | 6.5 | 0 |

## COMPARISON - TSC AND BBN HELICOPTER ANALYSES

| Run | EPNL TSC dB | EPNL BBN dB | PNLTM TSC dB | PNLTM BBN dB | Max rms TSC dB | A-level BBN dB | T.C. BBN dB | T for A max BBN s | TSC Time OH s | TSC ΔT for A max to OH s |
|---|---|---|---|---|---|---|---|---|---|---|
| S-64 | | | | | | | | | | |
| 50 | 96.8 | 96.3 | 97.9 | 98.3 | 84.2 | 83.1 | 1.5 | 14.0 | 9.0 | 0 |
| 51 | 99.4 | 99.1 | 102.3 | 101.5 | 87.0 | 85.3 | 1.9 | 17.0 | 9.5 | -0.5 |
| 67 | 96.7 | 96.9 | 99.2 | 100.6 | 86.8 | 86.5 | 2.2 | 4.5 | 5.5 | 1.0 |
| 74 | 100.0 | 100.3 | 101.3 | 101.4 | 86.0 | 85.4 | 2.0 | 10.0 | 13.5 | -1.5 |
| 78 | 98.1 | 98.8 | 102.9 | 103.4 | 88.2 | 87.4 | 2.5 | 3.5 | 6.0 | -1.0 |
| Hughes 300C | | | | | | | | | | |
| 34 | - | 82.4 | 82.9 | 82.9 | 70.1 | 68.5 | 1.8 | 20.0 | 11 | 0.5 |
| 44 | 82.2 | 81.1 | 82.9 | 82.0 | 71.1 | 69.4 | 1.0 | 14.0 | 15.5 | 2.0 |
| Hughes 500C | | | | | | | | | | |
| 58 | 87.3 | 87.6 | 87.8 | 89.0 | 76.0 | 75.5 | 1.6 | 14.0 | 15.5 | 0 |
| 65 | 89.1 | 89.6 | 89.8 | 90.2 | 78.3 | 77.7 | 1.6 | 14.5 | 11.5 | 2.0 |
| 109 | 88.9 | 89.3 | 90.8 | 92.0 | 79.5 | 78.9 | 1.8 | 14.0 | 14.0 | 0.5 |
| 110 | 88.4 | 88.7 | 90.3 | 91.3 | 78.5 | 78.0 | 1.5 | 19.0 | 15.5 | 0.5 |
| Bell 47G | | | | | | | | | | |
| 19 | 91.0 | 90.5 | 91.6 | 91.5 | 78.5 | 77.0 | 1.2 | 17.0 | 6.0 | -1.0 |
| 29 | 91.6 | 92.5 | 91.9 | 94.2 | 78.5 | 77.9 | 3.3 | 11.0 | 6.5 | 0.5 |
| 30 | 89.2 | 89.1 | 90.7 | 91.8 | 75.9 | 75.4 | 3.3 | 8.5 | 7.0 | 3.0 |
| 41 | 88.5 | 88.5 | 90.8 | 90.0 | 78.5 | 76.1 | 1.3 | 8.5 | 11.5 | 0 |

TSC CH-47C #12: 6 DEG APRCH, 60 KT, 400 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -19.1 | .00 | -20.5 | -19.6 | 2.83 | -0.2 |
| 1.0 | -19.6 | .00 | -16.7 | -19.4 | 2.68 | -0.4 |
| 1.5 | -18.5 | .00 | -20.3 | -18.7 | 2.58 | -0.5 |
| 2.0 | -18.9 | .00 | -13.4 | -18.9 | 2.65 | -0.4 |
| 2.5 | -18.9 | .00 | -21.8 | -18.3 | 2.59 | -0.5 |
| 3.0 | -18.7 | .00 | -17.3 | -18.7 | 2.95 | 0.0 |
| 3.5 | -18.3 | .00 | -14.7 | -17.7 | 2.80 | -0.2 |
| 4.0 | -18.1 | .07 | -11.4 | -17.3 | 3.00 | 0.0 |
| 4.5 | -18.3 | .00 | -16.3 | -17.2 | 3.25 | 0.3 |
| 5.0 | -17.7 | .18 | -7.4 | -16.9 | 4.24 | 1.4 |
| 5.5 | -17.5 | .06 | -12.0 | -16.2 | 3.58 | 0.7 |
| 6.0 | -17.7 | .00 | -14.4 | -16.4 | 3.29 | 0.3 |
| 6.5 | -17.4 | .11 | -9.4 | -16.5 | 4.19 | 1.4 |
| 7.0 | -16.5 | .16 | -7.9 | -15.4 | 4.25 | 1.4 |
| 7.5 | -15.7 | .25 | -5.9 | -14.7 | 3.78 | 0.9 |
| 8.0 | -16.2 | .25 | -6.0 | -14.5 | 3.98 | 1.1 |
| 8.5 | -15.9 | .27 | -5.6 | -14.2 | 4.36 | 1.6 |
| 9.0 | -15.9 | .24 | -6.1 | -14.0 | 4.66 | 1.9 |
| 9.5 | -16.1 | .21 | -6.7 | -13.8 | 3.92 | 1.1 |
| 10.0 | -16.6 | .15 | -8.0 | -14.3 | 4.36 | 1.6 |
| 10.5 | -16.4 | .17 | -7.6 | -13.7 | 4.62 | 1.9 |
| 11.0 | -17.2 | .08 | -10.7 | -15.4 | 5.62 | 3.0 |
| 11.5 | -18.1 | .00 | -14.4 | -16.2 | 5.32 | 2.7 |
| 12.0 | -18.3 | .00 | -14.6 | -16.9 | 4.85 | 2.1 |
| 12.5 | -18.5 | .00 | -14.4 | -17.6 | 3.73 | 0.8 |
| 13.0 | -18.4 | .00 | -12.7 | -17.8 | 5.38 | 2.7 |
| 13.5 | -18.3 | .11 | -9.3 | -16.9 | 4.90 | 2.2 |
| 14.0 | -17.9 | .00 | -13.4 | -16.6 | 4.19 | 1.4 |
| 14.5 | -17.0 | .24 | -6.1 | -17.0 | 4.23 | 1.4 |
| 15.0 | -17.9 | .11 | -9.5 | -17.0 | 5.30 | 2.6 |
| 15.5 | -18.2 | .00 | -14.6 | -17.0 | 4.28 | 1.5 |
| 16.0 | -18.3 | .00 | -17.4 | -16.7 | 3.15 | 0.2 |
| 16.5 | -18.2 | .00 | -14.8 | -9.9 | 4.54 | 1.8 |
| 17.0 | -18.1 | .00 | -14.8 | -15.9 | 5.11 | 2.4 |
| 17.5 | -18.4 | .00 | -14.4 | -15.6 | 3.23 | 0.3 |
| 18.0 | -18.7 | .00 | -16.1 | -15.8 | 2.80 | -0.2 |
| 18.5 | -18.5 | .00 | -18.8 | -15.9 | 2.86 | 0.0 |
| 19.0 | -18.1 | .00 | -14.7 | -15.7 | 2.88 | 0.0 |
| 19.5 | -18.3 | .00 | -15.0 | -15.7 | 2.99 | 0.0 |
| 20.0 | -17.2 | .17 | -7.6 | -15.7 | 3.13 | 0.2 |
| 20.5 | -16.0 | .62 | -2.0 | -15.9 | 2.93 | 0.0 |
| 21.0 | -15.7 | 1.30 | 1.2 | -15.2 | 2.92 | 0.0 |
| 21.5 | -16.6 | .56 | -2.5 | -15.8 | 2.64 | -0.4 |
| 22.0 | -16.6 | .27 | -5.5 | -15.2 | 2.91 | 0.0 |
| 22.5 | -16.9 | .26 | -5.7 | -14.4 | 2.81 | -0.2 |
| 23.0 | -17.7 | .00 | -15.8 | -14.2 | 2.83 | -0.2 |
| 23.5 | -17.7 | .09 | -10.3 | -13.6 | 3.03 | 0.0 |
| 24.0 | -17.8 | .12 | -9.2 | -14.4 | 3.59 | 0.7 |
| 24.5 | -17.5 | .07 | -11.2 | -14.8 | 4.50 | 1.7 |
| 25.0 | -17.8 | .00 | -15.6 | -14.8 | 4.33 | 1.5 |

TSC CH-47C #12: 6 DEG APRCH, 60 KT, 400 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -18.8 | .00 | -18.3 | -15.0 | 3.43 | 0.5 |
| 26.0 | -18.1 | .00 | -14.6 | -14.8 | 3.80 | 0.9 |
| 26.5 | -18.1 | .00 | -18.6 | -14.6 | 3.18 | 0.2 |
| 27.0 | -18.0 | .00 | -14.7 | -14.9 | 3.64 | 0.7 |
| 27.5 | -17.6 | .00 | -16.1 | -14.2 | 3.33 | 0.4 |
| 28.0 | -17.4 | .00 | -13.7 | -14.1 | 3.58 | 0.7 |
| 28.5 | -16.8 | .12 | -9.1 | -14.6 | 4.38 | 1.6 |
| 29.0 | -17.0 | .11 | -9.5 | -14.6 | 3.81 | 0.9 |
| 29.5 | -16.4 | .07 | -11.3 | -14.0 | 4.31 | 1.5 |
| 30.0 | -16.6 | .09 | -10.4 | -13.1 | 3.95 | 1.1 |
| 30.5 | -15.4 | .15 | -8.2 | -13.1 | 4.06 | 1.2 |
| 31.0 | -15.0 | .42 | -3.7 | -12.3 | 4.25 | 1.4 |
| 31.5 | -15.9 | .34 | -4.6 | -11.7 | 3.66 | 0.8 |
| 32.0 | -15.4 | .24 | -6.1 | -12.0 | 3.74 | 0.9 |
| 32.5 | -15.8 | .26 | -5.7 | -11.7 | 3.85 | 1.0 |
| 33.0 | -15.8 | .17 | -7.5 | -6.6 | 4.14 | 1.3 |
| 33.5 | -15.5 | .20 | -6.8 | -11.3 | 3.17 | 0.2 |
| 34.0 | -14.1 | .29 | -5.3 | -10.8 | 3.24 | 0.3 |
| 34.5 | -12.2 | 1.22 | 0.9 | -10.3 | 3.93 | 1.1 |
| 35.0 | -12.0 | .64 | -1.9 | -9.8 | 4.14 | 1.3 |
| 35.5 | -10.9 | 1.34 | 1.3 | -8.5 | 3.22 | 0.3 |
| 36.0 | -11.2 | .83 | -0.8 | -8.9 | 3.09 | 0.1 |
| 36.5 | -12.6 | .94 | -0.2 | -9.8 | 3.30 | 0.3 |
| 37.0 | -11.8 | 1.56 | 1.9 | -10.2 | 4.28 | 1.5 |
| 37.5 | -11.2 | 1.08 | 0.4 | -9.1 | 5.49 | 2.9 |
| 38.0 | -10.7 | .71 | -1.4 | -8.9 | 4.01 | 1.2 |
| 38.5 | -10.7 | 1.06 | 0.3 | -9.2 | 3.89 | 1.0 |
| 39.0 | -10.5 | 1.17 | 0.7 | -9.0 | 3.30 | 0.4 |
| 39.5 | -8.1 | 1.34 | 1.3 | -7.7 | 3.42 | 0.5 |
| 40.0 | -7.2 | 6.96 | 8.4 | -6.3 | 3.32 | 0.4 |
| 40.5 | -6.2 | 3.93 | 6.0 | -5.7 | 3.48 | 0.6 |
| 41.0 | -7.7 | 2.06 | 3.1 | -6.4 | 3.23 | 0.3 |
| 41.5 | -8.6 | .84 | -0.7 | -7.2 | 3.16 | 0.2 |
| 42.0 | -9.2 | .53 | -2.7 | -7.1 | 2.75 | -0.3 |
| 42.5 | -7.9 | .72 | -1.4 | -6.8 | 3.13 | 0.1 |
| 43.0 | -6.6 | 1.50 | 1.8 | -5.4 | 2.80 | -0.2 |
| 43.5 | -6.0 | 1.38 | 1.4 | -3.5 | 3.06 | 0.1 |
| 44.0 | -4.0 | 1.24 | 1.0 | -3.1 | 4.01 | 1.2 |
| 44.5 | -3.9 | 1.09 | 0.4 | -2.8 | 3.50 | 0.6 |
| 45.0 | -4.2 | .78 | -1.1 | -3.2 | 3.70 | 0.8 |
| 45.5 | -4.3 | .86 | -0.6 | -3.8 | 3.58 | 0.7 |
| 46.0 | -4.4 | .56 | -2.5 | -3.5 | 3.70 | 0.8 |
| 46.5 | -4.6 | .31 | -5.1 | -3.6 | 3.23 | 0.3 |
| 47.0 | -3.7 | .52 | -2.8 | -2.6 | 4.55 | 1.8 |
| 47.5 | -2.3 | 2.46 | 3.9 | -2.2 | 6.98 | 4.6 |
| 48.0 | -0.7 | 2.14 | 3.3 | -1.3 | 6.99 | 4.6 |
| 48.5 | -0.9 | 3.17 | 5.0 | -0.6 | 6.97 | 4.5 |
| 49.0 | 0.0 | 2.07 | 3.2 | 0.0 | 6.28 | 3.8 |
| 49.5 | -0.7 | 1.79 | 2.5 | 0.0 | 5.86 | 3.3 |
| 50.0 | -2.7 | 3.12 | 5.0 | -0.2 | 6.08 | 3.5 |

TSC CH-47C #12: 6 DEG APRCH, 60 KT, 400 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 50.5 | -4.2 | 2.47 | 3.9 | -1.3 | 5.40 | 2.7 |
| 51.0 | -4.7 | .77 | -1.1 | -2.5 | 3.51 | 0.6 |
| 51.5 | -5.7 | .23 | -6.4 | -2.7 | 3.00 | 0.0 |
| 52.0 | -6.5 | .23 | -6.2 | -4.1 | 2.87 | 0.0 |
| 52.5 | -7.0 | .00 | -13.1 | -5.4 | 2.81 | -0.2 |
| 53.0 | -8.9 | .08 | -10.7 | -6.8 | 2.99 | 0.0 |
| 53.5 | -10.1 | .09 | -10.1 | -7.8 | 3.33 | 0.4 |
| 54.0 | -11.8 | .19 | -7.1 | -8.8 | 3.50 | 0.6 |
| 54.5 | -11.8 | .11 | -9.5 | -9.3 | 3.21 | 0.2 |
| 55.0 | -11.8 | .10 | -9.7 | -8.3 | 3.54 | 0.6 |
| 55.5 | -12.0 | .14 | -8.4 | -10.4 | 2.91 | 0.0 |
| 56.0 | -13.6 | .07 | -11.3 | -10.7 | 2.84 | -0.2 |
| 56.5 | -14.5 | .10 | -9.9 | -12.3 | 3.08 | 0.1 |
| 57.0 | -15.3 | .00 | -15.9 | -12.9 | 3.02 | 0.0 |
| 57.5 | -15.9 | .00 | -16.2 | -13.0 | 2.97 | 0.0 |
| 58.0 | -17.3 | .00 | -20.2 | -15.0 | 2.61 | -0.4 |
| 58.5 | -12.9 | .06 | -11.9 | -14.8 | 2.99 | 0.0 |
| 59.0 | -11.4 | .00 | -19.4 | -14.0 | 2.66 | -0.4 |

TSC CH-47C #18: FLYOVER, 60 KT, 500 FT

| TIME | BRITISH 0.5 SEC RMS (RE: MAX) | BRITISH IMPULSE COEF | BRITISH IMPULSE COEF (DB) | FRENCH 0.5 SEC RMS (RE: MAX) | FRENCH IMPULSE COEF | FRENCH IMPULSE CORR (DB) |
|---|---|---|---|---|---|---|
| 0.5 | -14.9 | .00 | -14.5 | -15.2 | 2.84 | -0.2 |
| 1.0 | -14.1 | .22 | -6.4 | -14.6 | 2.96 | 0.0 |
| 1.5 | -14.5 | .09 | -10.3 | -14.8 | 3.02 | 0.0 |
| 2.0 | -13.8 | .17 | -7.5 | -14.6 | 2.91 | 0.0 |
| 2.5 | -14.4 | .00 | -14.6 | -14.2 | 2.80 | -0.2 |
| 3.0 | -14.2 | .07 | -11.0 | -13.8 | 2.71 | -0.3 |
| 3.5 | -13.0 | .24 | -6.1 | -13.2 | 2.93 | 0.0 |
| 4.0 | -11.6 | 2.27 | 3.6 | -11.0 | 6.77 | 4.3 |
| 4.5 | -11.4 | 1.81 | 2.6 | -10.7 | 6.39 | 3.9 |
| 5.0 | -10.1 | 2.59 | 4.1 | -8.7 | 7.54 | 5.2 |
| 5.5 | -9.6 | 3.42 | 5.4 | -8.0 | 9.46 | 7.4 |
| 6.0 | -7.9 | 8.04 | 9.1 | -7.5 | 14.64 | 13.3 |
| 6.5 | -7.0 | 11.87 | 10.7 | -7.7 | 15.55 | 14.3 |
| 7.0 | -6.6 | 8.53 | 9.3 | -6.8 | 6.88 | 4.4 |
| 7.5 | -5.7 | 7.47 | 8.7 | -6.7 | 6.99 | 4.6 |
| 8.0 | -5.6 | 7.35 | 8.7 | -7.0 | 7.49 | 5.1 |
| 8.5 | -6.6 | 8.62 | 9.4 | -6.0 | 9.40 | 7.3 |
| 9.0 | -7.3 | 3.41 | 5.3 | -5.0 | 9.20 | 7.1 |
| 9.5 | -8.5 | 2.84 | 4.5 | -5.6 | 6.39 | 3.9 |
| 10.0 | -8.9 | 2.19 | 3.4 | -5.3 | 6.33 | 3.8 |
| 10.5 | -11.0 | 1.00 | 0.0 | -6.1 | 5.14 | 2.5 |
| 11.0 | -11.2 | .64 | -1.9 | -6.9 | 4.42 | 1.6 |
| 11.5 | -11.7 | .98 | 0.0 | -7.8 | 5.46 | 2.8 |
| 12.0 | -11.2 | .97 | 0.0 | -8.5 | 6.45 | 3.9 |
| 12.5 | -10.3 | 2.17 | 3.4 | -8.5 | 7.16 | 4.8 |
| 13.0 | -10.5 | 2.30 | 3.6 | -8.4 | 6.51 | 4.0 |
| 13.5 | -11.4 | 1.66 | 2.2 | -8.9 | 6.83 | 4.4 |
| 14.0 | -11.2 | 1.21 | 0.8 | -8.4 | 5.45 | 2.8 |
| 14.5 | -11.9 | .72 | -1.4 | -8.9 | 4.81 | 2.1 |
| 15.0 | -12.5 | .54 | -2.6 | -8.0 | 3.74 | 0.8 |
| 15.5 | -11.6 | .72 | -1.4 | -7.7 | 4.79 | 2.1 |
| 16.0 | -11.2 | .46 | -3.3 | -6.8 | 5.04 | 2.3 |
| 16.5 | -11.4 | .61 | -2.1 | -6.9 | 5.06 | 2.4 |
| 17.0 | -10.8 | 1.39 | 1.4 | -7.2 | 5.41 | 2.8 |
| 17.5 | -7.3 | 5.88 | 7.7 | -5.8 | 6.49 | 4.0 |
| 18.0 | -8.1 | 4.91 | 6.9 | -5.7 | 6.61 | 4.1 |
| 18.5 | -6.4 | 9.51 | 9.8 | -5.4 | 7.67 | 5.3 |
| 19.0 | -7.6 | 5.71 | 7.6 | -6.7 | 7.14 | 4.7 |
| 19.5 | -11.2 | .87 | -0.6 | -8.0 | 4.12 | 1.3 |
| 20.0 | -11.8 | .77 | -1.1 | -8.1 | 3.85 | 1.0 |
| 20.5 | -10.9 | 1.77 | 2.5 | -7.3 | 3.91 | 1.1 |
| 21.0 | -5.7 | 19.29 | 12.9 | -5.4 | 9.65 | 7.6 |
| 21.5 | -3.8 | 13.66 | 11.4 | -4.1 | 11.67 | 9.9 |
| 22.0 | -7.7 | 5.30 | 7.2 | -4.7 | 7.56 | 5.2 |
| 22.5 | -7.3 | 10.13 | 10.1 | -5.9 | 8.29 | 6.1 |
| 23.0 | -11.8 | 1.44 | 1.6 | -9.0 | 4.43 | 1.6 |
| 23.5 | -11.1 | 1.20 | 0.8 | -8.5 | 3.55 | 0.6 |
| 24.0 | -9.4 | 2.78 | 4.5 | -6.8 | 7.00 | 4.6 |
| 24.5 | -8.5 | 6.53 | 8.2 | -5.6 | 7.64 | 5.3 |
| 25.0 | -7.7 | 5.83 | 7.7 | -4.5 | 7.12 | 4.7 |

TSC CH-47C #18: FLYOVER, 60 KT, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -8.3 | 2.24 | 3.5 | -5.5 | 6.58 | 4.1 |
| 26.0 | -10.1 | 1.34 | 1.3 | -7.9 | 5.98 | 3.4 |
| 26.5 | -10.9 | .59 | -2.2 | -7.9 | 4.08 | 1.2 |
| 27.0 | -6.4 | 4.77 | 6.8 | -5.0 | 6.04 | 3.5 |
| 27.5 | -6.0 | 7.90 | 9.0 | -4.3 | 6.36 | 3.8 |
| 28.0 | -6.0 | 4.17 | 6.2 | -3.3 | 5.08 | 2.4 |
| 28.5 | -5.5 | 4.08 | 6.1 | -3.0 | 5.94 | 3.4 |
| 29.0 | -5.5 | 5.98 | 7.8 | -3.4 | 6.21 | 3.7 |
| 29.5 | -7.0 | 4.57 | 6.6 | -3.6 | 5.52 | 2.9 |
| 30.0 | -7.2 | 2.77 | 4.4 | -4.6 | 5.21 | 2.5 |
| 30.5 | -6.2 | 3.94 | 6.0 | -3.8 | 5.18 | 2.5 |
| 31.0 | -5.7 | 3.92 | 5.9 | -3.4 | 4.78 | 2.0 |
| 31.5 | -4.7 | 4.88 | 6.9 | -3.8 | 5.33 | 2.7 |
| 32.0 | -7.1 | 3.45 | 5.4 | -5.0 | 3.76 | 0.9 |
| 32.5 | -7.7 | 2.19 | 3.4 | -4.8 | 3.30 | 0.3 |
| 33.0 | -9.1 | 1.32 | 1.2 | -6.0 | 3.40 | 0.5 |
| 33.5 | -4.6 | 5.41 | 7.3 | -2.6 | 3.83 | 1.0 |
| 34.0 | -3.4 | 6.16 | 7.9 | -2.6 | 4.44 | 1.6 |
| 34.5 | -6.7 | 4.38 | 6.4 | -3.5 | 3.06 | 0.1 |
| 35.0 | -6.5 | 2.37 | 3.8 | -3.2 | 3.16 | 0.2 |
| 35.5 | -5.4 | 2.41 | 3.8 | -2.9 | 3.03 | 0.0 |
| 36.0 | -2.3 | 4.27 | 6.3 | -1.4 | 3.93 | 1.1 |
| 36.5 | -2.8 | 2.06 | 3.1 | -1.3 | 5.39 | 2.7 |
| 37.0 | -1.6 | 1.27 | 1.1 | 0.0 | 6.84 | 4.4 |
| 37.5 | 0.0 | 2.08 | 3.2 | -0.2 | 7.06 | 4.6 |
| 38.0 | -1.7 | 2.43 | 3.9 | -0.2 | 6.07 | 3.5 |
| 38.5 | -2.0 | 1.02 | 0.1 | -0.8 | 5.99 | 3.4 |
| 39.0 | -2.3 | 2.12 | 3.3 | -1.6 | 5.08 | 2.4 |
| 39.5 | -2.1 | 2.76 | 4.4 | -3.3 | 4.76 | 2.0 |
| 40.0 | -3.7 | 2.61 | 4.2 | -3.2 | 4.38 | 1.6 |
| 40.5 | -4.2 | 1.72 | 2.4 | -3.1 | 3.95 | 1.1 |
| 41.0 | -2.1 | 1.26 | 1.0 | -1.8 | 3.89 | 1.0 |
| 41.5 | -1.5 | .71 | -1.4 | -0.5 | 4.23 | 1.4 |
| 42.0 | -3.0 | .48 | -3.1 | -0.5 | 6.01 | 3.4 |
| 42.5 | -3.4 | .31 | -5.0 | -1.0 | 5.01 | 2.3 |
| 43.0 | -4.6 | .30 | -5.2 | -2.1 | 3.35 | 0.4 |
| 43.5 | -5.3 | .09 | -10.4 | -2.2 | 3.17 | 0.2 |
| 44.0 | -5.1 | .00 | -16.8 | -2.2 | 3.03 | 0.0 |
| 44.5 | -5.2 | .00 | -17.9 | -2.6 | 3.10 | 0.1 |
| 45.0 | -4.7 | .00 | -14.3 | -2.5 | 3.16 | 0.2 |
| 45.5 | -5.3 | .09 | -10.3 | -3.1 | 3.42 | 0.5 |
| 46.0 | -6.0 | .00 | -17.1 | -4.1 | 2.67 | -0.4 |
| 46.5 | -7.2 | .00 | -15.9 | -5.6 | 2.58 | -0.5 |
| 47.0 | -7.3 | .00 | -18.9 | -6.7 | 2.45 | -0.6 |
| 47.5 | -7.6 | .00 | -16.4 | -7.7 | 2.54 | -0.5 |
| 48.0 | -8.4 | .00 | -16.6 | -8.0 | 2.55 | -0.5 |
| 48.5 | -9.0 | .00 | -18.1 | -8.4 | 2.47 | -0.6 |
| 49.0 | -9.5 | .00 | -16.5 | -9.3 | 2.52 | -0.5 |
| 49.5 | -9.8 | .00 | -17.3 | -9.6 | 2.59 | -0.5 |

TSC CH-47C #20: 9 DEG APRCH, 60 KT, 400 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -15.4 | .12 | -9.2 | -15.2 | 2.68 | -0.4 |
| 1.0 | -14.5 | .24 | -6.1 | -14.7 | 3.47 | 0.5 |
| 1.5 | -15.8 | .11 | -9.3 | -15.9 | 3.08 | 0.1 |
| 2.0 | -16.7 | .00 | -15.1 | -15.7 | 3.07 | 0.1 |
| 2.5 | -16.7 | .00 | -12.6 | -14.6 | 2.89 | 0.0 |
| 3.0 | -17.3 | .00 | -20.4 | -16.1 | 2.79 | -0.2 |
| 3.5 | -16.7 | .00 | -18.4 | -15.5 | 2.54 | -0.5 |
| 4.0 | -16.8 | .00 | -13.3 | -15.2 | 2.64 | -0.4 |
| 4.5 | -16.8 | .00 | -19.6 | -15.1 | 3.30 | 0.3 |
| 5.0 | -15.4 | .00 | -17.0 | -15.0 | 2.63 | -0.4 |
| 5.5 | -15.2 | .00 | -17.3 | -15.0 | 2.86 | -0.2 |
| 6.0 | -15.4 | .00 | -15.8 | -15.3 | 2.80 | -0.2 |
| 6.5 | -16.4 | .00 | -15.2 | -15.3 | 2.57 | -0.5 |
| 7.0 | -15.9 | .09 | -10.2 | -15.7 | 2.68 | -0.4 |
| 7.5 | -15.6 | .14 | -8.4 | -14.9 | 2.71 | -0.3 |
| 8.0 | -15.1 | .30 | -5.1 | -14.6 | 2.92 | 0.0 |
| 8.5 | -14.4 | .22 | -6.6 | -13.8 | 2.70 | -0.3 |
| 9.0 | -14.4 | .12 | -9.0 | -13.3 | 2.85 | -0.2 |
| 9.5 | -15.0 | .11 | -9.5 | -13.0 | 2.56 | -0.5 |
| 10.0 | -14.3 | .20 | -6.9 | -13.1 | 2.40 | -0.7 |
| 10.5 | -14.3 | .23 | -6.3 | -12.6 | 2.52 | -0.5 |
| 11.0 | -13.9 | .26 | -5.7 | -12.3 | 2.71 | -0.3 |
| 11.5 | -13.1 | .52 | -2.8 | -12.2 | 3.15 | 0.2 |
| 12.0 | -12.8 | .62 | -2.0 | -11.4 | 2.55 | -0.5 |
| 12.5 | -11.4 | 1.34 | 1.3 | -10.9 | 2.86 | -0.2 |
| 13.0 | -11.7 | .64 | -1.9 | -10.2 | 2.78 | -0.2 |
| 13.5 | -10.9 | 1.01 | 0.1 | -10.1 | 3.23 | 0.3 |
| 14.0 | -10.9 | .89 | -0.5 | -11.0 | 3.58 | 0.7 |
| 14.5 | -9.0 | 1.75 | 2.4 | -10.5 | 3.79 | 0.9 |
| 15.0 | -8.3 | .85 | -0.7 | -9.8 | 3.97 | 1.1 |
| 15.5 | -10.1 | .72 | -1.4 | -10.1 | 3.67 | 0.8 |
| 16.0 | -11.1 | .62 | -2.1 | -10.6 | 3.37 | 0.4 |
| 16.5 | -8.3 | .98 | 0.0 | -8.6 | 3.80 | 0.9 |
| 17.0 | -7.7 | .81 | -0.9 | -7.9 | 3.77 | 0.9 |
| 17.5 | -8.4 | 1.49 | 1.7 | -8.3 | 3.83 | 1.0 |
| 18.0 | -9.1 | .72 | -1.4 | -8.5 | 3.38 | 0.4 |
| 18.5 | -9.0 | 1.21 | 0.8 | -8.2 | 3.65 | 0.7 |
| 19.0 | -8.6 | .91 | -0.4 | -7.5 | 3.46 | 0.5 |
| 19.5 | -7.8 | .82 | -0.8 | -7.2 | 3.73 | 0.8 |
| 20.0 | -8.0 | .63 | -2.0 | -6.5 | 3.41 | 0.5 |
| 20.5 | -6.9 | 1.10 | 0.4 | -6.2 | 4.21 | 1.4 |
| 21.0 | -6.2 | .91 | -0.4 | -5.9 | 4.78 | 2.0 |
| 21.5 | -6.6 | .95 | -0.2 | -5.3 | 4.50 | 1.7 |
| 22.0 | -5.8 | .97 | 0.0 | -4.7 | 4.48 | 1.7 |
| 22.5 | -5.5 | .85 | -0.7 | -4.9 | 5.00 | 2.3 |
| 23.0 | -4.9 | .88 | -0.6 | -4.2 | 4.91 | 2.2 |
| 23.5 | -4.5 | .95 | -0.2 | -4.2 | 5.72 | 3.1 |
| 24.0 | -3.4 | 1.41 | 1.5 | -3.5 | 5.60 | 3.0 |
| 24.5 | -3.4 | 1.52 | 1.8 | -2.9 | 5.94 | 3.4 |
| 25.0 | -1.6 | 1.25 | 1.0 | -2.2 | 6.87 | 4.4 |

TSC CH-47C #20: 9 DEG APRCH, 60 KT, 400 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -1.2 | 2.10 | 3.2 | -1.9 | 7.58 | 5.2 |
| 26.0 | -0.7 | 1.62 | 2.1 | -2.0 | 7.52 | 5.2 |
| 26.5 | -0.3 | 1.97 | 3.0 | -0.9 | 6.92 | 4.5 |
| 27.0 | 0.0 | 1.93 | 2.9 | -0.8 | 7.35 | 5.0 |
| 27.5 | 0.0 | 4.25 | 6.3 | -0.2 | 5.91 | 3.3 |
| 28.0 | -1.0 | 5.39 | 7.3 | 0.0 | 5.65 | 3.0 |
| 28.5 | -3.0 | .82 | -0.9 | -1.0 | 5.10 | 2.4 |
| 29.0 | -3.8 | .56 | -2.5 | -1.5 | 4.12 | 1.3 |
| 29.5 | -4.1 | .15 | -8.2 | -1.9 | 3.47 | 0.5 |
| 30.0 | -4.7 | .13 | -8.6 | -3.3 | 2.89 | 0.0 |
| 30.5 | -5.0 | .15 | -8.2 | -3.2 | 2.47 | -0.6 |
| 31.0 | -6.2 | .10 | -9.7 | -4.5 | 2.31 | -0.8 |
| 31.5 | -7.0 | .08 | -10.7 | -5.9 | 2.84 | -0.2 |
| 32.0 | -8.5 | .00 | -15.7 | -7.6 | 2.65 | -0.4 |
| 32.5 | -9.2 | .00 | -14.6 | -9.4 | 3.03 | 0.0 |
| 33.0 | -9.9 | .00 | -13.9 | -10.4 | 3.35 | 0.4 |
| 33.5 | -10.6 | .00 | -14.7 | -10.7 | 3.31 | 0.4 |
| 34.0 | -10.8 | .00 | -13.8 | -11.2 | 3.27 | 0.3 |
| 34.5 | -11.1 | .00 | -14.3 | -11.6 | 3.04 | 0.1 |
| 35.0 | -11.8 | .00 | -16.3 | -12.4 | 2.77 | -0.3 |
| 35.5 | -13.1 | .00 | -17.5 | -13.1 | 2.99 | 0.0 |
| 36.0 | -14.1 | .00 | -19.2 | -14.0 | 2.91 | 0.0 |
| 36.5 | -14.7 | .00 | -21.4 | -14.6 | 2.71 | -0.3 |
| 37.0 | -15.0 | .00 | -15.4 | -15.6 | 2.87 | 0.0 |
| 37.5 | -15.6 | .00 | -21.2 | -16.2 | 2.80 | -0.2 |
| 38.0 | -15.9 | .00 | -16.8 | -16.7 | 2.94 | 0.0 |
| 38.5 | -16.5 | .00 | -20.6 | -16.9 | 2.60 | -0.5 |

TSC CH-47C #23: FLYOVER, 100 KT, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -9.0 | .00 | -20.5 | -13.4 | 2.56 | -0.5 |
| 1.0 | -8.8 | .00 | -18.6 | -12.9 | 2.80 | -0.2 |
| 1.5 | -9.8 | .00 | -22.7 | -13.5 | 2.82 | -0.2 |
| 2.0 | -9.2 | .00 | -19.7 | -13.1 | 2.57 | -0.5 |
| 2.5 | -9.5 | .00 | -18.4 | -12.9 | 2.69 | -0.3 |
| 3.0 | -9.1 | .00 | -22.0 | -12.5 | 2.85 | -0.2 |
| 3.5 | -9.2 | .00 | -16.5 | -13.1 | 3.21 | 0.2 |
| 4.0 | -9.3 | .00 | -23.0 | -13.3 | 3.08 | 0.1 |
| 4.5 | -9.2 | .00 | -21.6 | -12.0 | 2.97 | 0.0 |
| 5.0 | -9.7 | .00 | -23.9 | -10.1 | 2.83 | -0.2 |
| 5.5 | -9.6 | .00 | -19.3 | -13.2 | 2.93 | 0.0 |
| 6.0 | -9.6 | .00 | -18.9 | -13.3 | 2.72 | -0.3 |
| 6.5 | -9.3 | .00 | -20.6 | -12.8 | 2.73 | -0.3 |
| 7.0 | -9.6 | .00 | -21.3 | -13.3 | 2.61 | -0.4 |
| 7.5 | -9.3 | .00 | -16.8 | -9.9 | 6.23 | 3.7 |
| 8.0 | -9.3 | .00 | -20.1 | -7.5 | 4.77 | 2.0 |
| 8.5 | -9.1 | .00 | -17.0 | -12.4 | 2.65 | -0.4 |
| 9.0 | -8.9 | .00 | -19.0 | -12.2 | 2.77 | -0.3 |
| 9.5 | -9.4 | .00 | -18.9 | -12.0 | 2.67 | -0.4 |
| 10.0 | -9.4 | .00 | -20.3 | -11.4 | 3.11 | 0.1 |
| 10.5 | -8.9 | .00 | -21.6 | -11.0 | 2.93 | 0.0 |
| 11.0 | -9.1 | .00 | -15.3 | -10.6 | 2.80 | -0.2 |
| 11.5 | -8.8 | .00 | -19.4 | -9.3 | 2.53 | -0.5 |
| 12.0 | -8.4 | .00 | -14.4 | -9.4 | 3.23 | 0.3 |
| 12.5 | -8.6 | .00 | -19.4 | -8.9 | 2.51 | -0.6 |
| 13.0 | -7.8 | .00 | -14.7 | -8.2 | 2.78 | -0.2 |
| 13.5 | -8.7 | .00 | -18.8 | -8.1 | 2.27 | -0.8 |
| 14.0 | -8.2 | .00 | -13.6 | -6.9 | 2.54 | -0.5 |
| 14.5 | -8.3 | .00 | -14.6 | -7.1 | 2.53 | -0.5 |
| 15.0 | -7.6 | .00 | -13.5 | -6.4 | 2.41 | -0.7 |
| 15.5 | -7.6 | .00 | -13.1 | -5.3 | 2.53 | -0.5 |
| 16.0 | -6.8 | .00 | -13.7 | -4.3 | 3.09 | 0.1 |
| 16.5 | -6.5 | .09 | -10.3 | -3.6 | 2.83 | -0.2 |
| 17.0 | -6.3 | .10 | -9.6 | -3.9 | 3.16 | 0.2 |
| 17.5 | -6.9 | .11 | -9.4 | -3.8 | 2.82 | -0.2 |
| 18.0 | -6.6 | .00 | -12.8 | -4.0 | 2.83 | -0.2 |
| 18.5 | -6.5 | .08 | -10.9 | -3.9 | 2.96 | 0.0 |
| 19.0 | -6.0 | .19 | -7.1 | 0.0 | 3.74 | 0.9 |
| 19.5 | -5.6 | .00 | -17.1 | -4.3 | 2.57 | -0.5 |
| 20.0 | -5.4 | .00 | -17.5 | -4.4 | 2.89 | 0.0 |
| 20.5 | -6.3 | .00 | -14.9 | -4.6 | 2.69 | -0.3 |
| 21.0 | -6.5 | .06 | -11.6 | -4.3 | 2.80 | -0.2 |
| 21.5 | -6.4 | .15 | -8.0 | -3.7 | 2.97 | 0.0 |
| 22.0 | -5.9 | .17 | -7.5 | -2.8 | 2.61 | -0.4 |
| 22.5 | -4.9 | .56 | -2.5 | -2.6 | 3.04 | 0.0 |
| 23.0 | -5.4 | .07 | -11.3 | -3.4 | 2.70 | -0.3 |
| 23.5 | -6.0 | .22 | -6.4 | -3.3 | 2.93 | 0.0 |
| 24.0 | -6.7 | .10 | -9.7 | -3.3 | 2.41 | -0.7 |
| 24.5 | -6.8 | .12 | -9.0 | -3.0 | 2.56 | -0.5 |
| 25.0 | -5.5 | .07 | -11.3 | -2.0 | 2.43 | -0.6 |

TSC CH-47C #23: FLYOVER, 100 KT, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -5.7 | .20 | -6.8 | -1.3 | 2.52 | -0.5 |
| 26.0 | -5.5 | .07 | -11.1 | -1.4 | 2.51 | -0.6 |
| 26.5 | -5.2 | .15 | -8.1 | -0.3 | 2.26 | -0.8 |
| 27.0 | -4.5 | .12 | -9.2 | -0.3 | 2.17 | -0.9 |
| 27.5 | -4.0 | .22 | -6.4 | -1.0 | 2.05 | -1.1 |
| 28.0 | -3.3 | .12 | -9.0 | -0.8 | 2.01 | -1.1 |
| 28.5 | -3.2 | .14 | -8.5 | -1.1 | 1.95 | -1.2 |
| 29.0 | -3.5 | .00 | -18.8 | -1.7 | 2.02 | -1.1 |
| 29.5 | -2.8 | .00 | -15.0 | -1.4 | 2.14 | -1.0 |
| 30.0 | -4.7 | .10 | -9.8 | -2.0 | 2.19 | -0.9 |
| 30.5 | -4.9 | .13 | -8.6 | -2.8 | 2.40 | -0.7 |
| 31.0 | -3.1 | .28 | -5.5 | -2.0 | 3.46 | 0.5 |
| 31.5 | -3.6 | .25 | -5.9 | -0.3 | 3.61 | 0.7 |
| 32.0 | -3.3 | .24 | -6.1 | -3.2 | 3.88 | 1.0 |
| 32.5 | -3.1 | .08 | -10.7 | -3.4 | 2.92 | 0.0 |
| 33.0 | -2.7 | .12 | -9.2 | -3.7 | 3.37 | 0.4 |
| 33.5 | -2.8 | .00 | -15.2 | -3.1 | 4.71 | 2.0 |
| 34.0 | -1.9 | .11 | -9.4 | -2.2 | 5.49 | 2.8 |
| 34.5 | -1.3 | .54 | -2.6 | -1.2 | 7.66 | 5.3 |
| 35.0 | -1.6 | .22 | -6.6 | -1.9 | 5.66 | 3.0 |
| 35.5 | -1.1 | .32 | -4.8 | -1.3 | 5.03 | 2.3 |
| 36.0 | 0.0 | .16 | -7.7 | -0.7 | 3.81 | 0.9 |
| 36.5 | 0.0 | .06 | -11.9 | -1.4 | 3.09 | 0.1 |
| 37.0 | -0.7 | .00 | -14.2 | -2.7 | 2.59 | -0.5 |
| 37.5 | -2.3 | .00 | -14.4 | -5.2 | 2.84 | -0.2 |
| 38.0 | -2.7 | .00 | -21.0 | -6.8 | 2.99 | 0.0 |
| 38.5 | -2.5 | .00 | -16.4 | -6.5 | 3.02 | 0.0 |
| 39.0 | -2.8 | .00 | -14.0 | -6.1 | 3.39 | 0.4 |
| 39.5 | -3.8 | .00 | -16.5 | -7.2 | 2.87 | 0.0 |
| 40.0 | -4.7 | .00 | -17.6 | -8.4 | 3.08 | 0.1 |
| 40.5 | -5.4 | .00 | -20.7 | -9.1 | 2.88 | 0.0 |
| 41.0 | -6.3 | .00 | -16.2 | -9.6 | 2.88 | 0.0 |
| 41.5 | -7.1 | .00 | -20.2 | -10.5 | 2.50 | -0.6 |
| 42.0 | -7.2 | .00 | -22.3 | -11.5 | 2.95 | 0.0 |
| 42.5 | -7.4 | .00 | -15.0 | -12.3 | 2.89 | 0.0 |
| 43.0 | -5.7 | .00 | -13.0 | -11.5 | 2.94 | 0.0 |
| 43.5 | -4.4 | .40 | -4.0 | -10.8 | 3.06 | 0.1 |
| 44.0 | -6.9 | .00 | -16.1 | -12.5 | 2.68 | -0.4 |
| 44.5 | -6.4 | .00 | -12.9 | -12.4 | 2.96 | 0.0 |
| 45.0 | -6.3 | .10 | -9.6 | -12.5 | 3.31 | 0.4 |
| 45.5 | -8.7 | .00 | -17.8 | -3.4 | 4.29 | 1.5 |
| 46.0 | -9.6 | .00 | -17.4 | -13.1 | 3.14 | 0.2 |
| 46.5 | -9.6 | .00 | -21.1 | -14.4 | 2.97 | 0.0 |

TSC CH-47C #24. FLYOVER, 141 KT, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -13.9 | .00 | -16.4 | -20.3 | 2.93 | 0.0 |
| 1.0 | -13.2 | .06 | -11.8 | -19.8 | 2.90 | 0.0 |
| 1.5 | -13.3 | .00 | -12.2 | -19.7 | 3.12 | 0.1 |
| 2.0 | -14.3 | .00 | -17.8 | -20.1 | 2.68 | -0.4 |
| 2.5 | -16.1 | .00 | -18.7 | -20.9 | 2.62 | -0.4 |
| 3.0 | -12.6 | .23 | -6.4 | -19.2 | 2.89 | 0.0 |
| 3.5 | -15.1 | .00 | -18.8 | -20.1 | 2.67 | -0.4 |
| 4.0 | -15.0 | .00 | -16.4 | -20.2 | 2.64 | -0.4 |
| 4.5 | -15.5 | .00 | -15.9 | -20.5 | 2.94 | 0.0 |
| 5.0 | -15.4 | .00 | -18.5 | -19.8 | 2.92 | 0.0 |
| 5.5 | -15.7 | .00 | -18.3 | -20.0 | 2.94 | 0.0 |
| 6.0 | -15.5 | .00 | -22.1 | -20.1 | 2.84 | -0.2 |
| 6.5 | -15.6 | .00 | -21.5 | -19.7 | 2.95 | 0.0 |
| 7.0 | -15.5 | .00 | -16.1 | -20.2 | 2.70 | -0.3 |
| 7.5 | -15.6 | .00 | -18.0 | -19.9 | 2.56 | -0.5 |
| 8.0 | -14.9 | .00 | -16.5 | -18.6 | 2.76 | -0.3 |
| 8.5 | -14.9 | .00 | -20.4 | -18.9 | 2.78 | -0.2 |
| 9.0 | -14.6 | .00 | -22.6 | -18.5 | 2.85 | -0.2 |
| 9.5 | -14.3 | .00 | -15.8 | -17.2 | 2.81 | -0.2 |
| 10.0 | -14.2 | .00 | -18.0 | -17.0 | 2.73 | -0.3 |
| 10.5 | -14.5 | .00 | -14.7 | -16.4 | 3.30 | 0.3 |
| 11.0 | -14.1 | .00 | -12.3 | -14.9 | 3.06 | 0.1 |
| 11.5 | -13.4 | .00 | -15.4 | -14.0 | 3.08 | 0.1 |
| 12.0 | -12.2 | .10 | -9.8 | -12.7 | 3.02 | 0.0 |
| 12.5 | -10.8 | .40 | -3.9 | -10.6 | 2.92 | 0.0 |
| 13.0 | -8.0 | 1.73 | 2.4 | -8.4 | 3.48 | 0.6 |
| 13.5 | -5.1 | 2.41 | 3.8 | -6.1 | 4.06 | 1.2 |
| 14.0 | -4.1 | 2.71 | 4.3 | -4.4 | 4.37 | 1.6 |
| 14.5 | -3.2 | 1.96 | 2.9 | -3.4 | 4.06 | 1.2 |
| 15.0 | -2.0 | 2.73 | 4.4 | -2.2 | 4.72 | 2.0 |
| 15.5 | -1.3 | 3.77 | 5.8 | -1.4 | 5.16 | 2.5 |
| 16.0 | -0.5 | 3.50 | 5.4 | -1.3 | 5.96 | 3.4 |
| 16.5 | 0.0 | 3.38 | 5.3 | -0.7 | 5.79 | 3.2 |
| 17.0 | -0.8 | 3.93 | 5.9 | -1.1 | 5.75 | 3.1 |
| 17.5 | -1.6 | 2.99 | 4.8 | -1.6 | 5.49 | 2.9 |
| 18.0 | -3.7 | 3.37 | 5.3 | -3.0 | 5.04 | 2.3 |
| 18.5 | -4.7 | 2.67 | 4.3 | -4.2 | 5.56 | 2.9 |
| 19.0 | -5.5 | 2.13 | 3.3 | -4.3 | 4.42 | 1.6 |
| 19.5 | -6.7 | 1.31 | 1.2 | -5.6 | 4.47 | 1.7 |
| 20.0 | -7.6 | .77 | -1.1 | -6.0 | 3.40 | 0.5 |
| 20.5 | -7.1 | 1.44 | 1.6 | -5.4 | 3.76 | 0.9 |
| 21.0 | -5.6 | 1.91 | 2.8 | -4.4 | 3.94 | 1.1 |
| 21.5 | -4.4 | 1.71 | 2.4 | -2.8 | 4.00 | 1.2 |
| 22.0 | -4.2 | 1.78 | 2.5 | -2.1 | 3.95 | 1.1 |
| 22.5 | -4.2 | 1.87 | 2.7 | -2.1 | 3.75 | 0.9 |
| 23.0 | -4.3 | 1.87 | 2.7 | -1.1 | 3.35 | 0.4 |
| 23.5 | -3.6 | 2.01 | 3.1 | -0.2 | 3.23 | 0.3 |
| 24.0 | -3.9 | .80 | -0.9 | 0.0 | 3.00 | 0.0 |
| 24.5 | -4.5 | .31 | -5.0 | -1.0 | 2.51 | -0.6 |
| 25.0 | -6.1 | .17 | -7.6 | -2.5 | 2.14 | -1.0 |

TSC CH-47C #24: FLYOVER, 141 KT, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -6.8 | .22 | -6.5 | -2.9 | 1.90 | -1.2 |
| 26.0 | -7.3 | .80 | -0.9 | -2.4 | 1.90 | -1.2 |
| 26.5 | -7.5 | .32 | -4.9 | -3.2 | 2.37 | -0.7 |
| 27.0 | -5.9 | .75 | -1.2 | -3.5 | 3.01 | 0.0 |
| 27.5 | -4.3 | .82 | -0.8 | -3.6 | 3.78 | 0.9 |
| 28.0 | -3.0 | 1.62 | 2.1 | -5.2 | 5.67 | 3.1 |
| 28.5 | -4.4 | 1.10 | 0.4 | -5.6 | 6.73 | 4.3 |
| 29.0 | -4.2 | .97 | 0.0 | -4.0 | 6.90 | 4.5 |
| 29.5 | -3.5 | 1.35 | 1.3 | -4.4 | 7.96 | 5.7 |
| 30.0 | -4.9 | .53 | -2.7 | -6.4 | 5.52 | 2.9 |
| 30.5 | -5.6 | .00 | -14.5 | -7.5 | 4.07 | 1.2 |
| 31.0 | -5.0 | .06 | -11.6 | -7.4 | 3.38 | 0.4 |
| 31.5 | -5.7 | .06 | -11.9 | -9.9 | 2.88 | 0.0 |
| 32.0 | -7.7 | .00 | -12.1 | -11.8 | 2.56 | -0.5 |
| 32.5 | -9.1 | .00 | -13.6 | -13.4 | 2.53 | -0.5 |
| 33.0 | -8.5 | .00 | -12.9 | -14.0 | 2.77 | -0.3 |
| 33.5 | -8.7 | .07 | -11.0 | -14.8 | 2.92 | 0.0 |
| 34.0 | -10.6 | .00 | -15.2 | -16.2 | 2.79 | -0.2 |
| 34.5 | -10.4 | .00 | -15.3 | -16.8 | 3.12 | 0.1 |
| 35.0 | -11.8 | .00 | -14.1 | -18.1 | 2.99 | 0.0 |
| 35.5 | -12.5 | .00 | -20.8 | -18.8 | 3.02 | 0.0 |

TSC CH-47C #27: FLYOVER, 141 KT, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -19.1 | .00 | -22.0 | -23.0 | 2.63 | -0.4 |
| 1.0 | -18.9 | .00 | -19.9 | -22.0 | 2.44 | -0.6 |
| 1.5 | -19.1 | .00 | -19.2 | -22.3 | 2.71 | -0.3 |
| 2.0 | -19.0 | .00 | -21.9 | -22.6 | 2.90 | 0.0 |
| 2.5 | -18.8 | .00 | -21.4 | -22.5 | 2.84 | -0.2 |
| 3.0 | -19.0 | .00 | -21.0 | -22.5 | 3.03 | 0.0 |
| 3.5 | -18.4 | .00 | -16.5 | -21.8 | 2.55 | -0.5 |
| 4.0 | -18.6 | .00 | -20.1 | -21.6 | 2.93 | 0.0 |
| 4.5 | -18.4 | .00 | -19.4 | -21.7 | 3.07 | 0.1 |
| 5.0 | -17.9 | .00 | -16.2 | -21.3 | 2.89 | 0.0 |
| 5.5 | -17.3 | .00 | -21.2 | -20.4 | 2.83 | -0.2 |
| 6.0 | -16.2 | .00 | -14.5 | -19.2 | 3.00 | 0.0 |
| 6.5 | -14.9 | .20 | -6.8 | -16.5 | 3.10 | 0.1 |
| 7.0 | -14.4 | .20 | -6.9 | -14.2 | 3.02 | 0.0 |
| 7.5 | -15.3 | .10 | -9.9 | -14.4 | 2.68 | -0.4 |
| 8.0 | -14.7 | .17 | -7.5 | -13.8 | 2.21 | -0.9 |
| 8.5 | -14.9 | .09 | -10.2 | -12.4 | 2.43 | -0.6 |
| 9.0 | -13.5 | 1.63 | 2.1 | -11.2 | 2.53 | -0.5 |
| 9.5 | -10.7 | 3.52 | 5.5 | -8.6 | 3.67 | 0.8 |
| 10.0 | -3.9 | 18.97 | 12.8 | -3.7 | 9.07 | 6.9 |
| 10.5 | 0.0 | 5.24 | 7.2 | -0.8 | 8.39 | 6.2 |
| 11.0 | 0.0 | 6.54 | 8.2 | -0.6 | 9.15 | 7.0 |
| 11.5 | -2.4 | 2.03 | 3.1 | -1.3 | 6.76 | 4.3 |
| 12.0 | -2.9 | 6.14 | 7.9 | -2.0 | 6.56 | 4.1 |
| 12.5 | -4.7 | 2.71 | 4.3 | -2.3 | 5.32 | 2.7 |
| 13.0 | -1.9 | 4.26 | 6.3 | -0.3 | 5.55 | 2.9 |
| 13.5 | -2.3 | 6.88 | 8.4 | 0.0 | 4.58 | 1.8 |
| 14.0 | -2.8 | 3.89 | 5.9 | 0.0 | 4.09 | 1.3 |
| 14.5 | -2.5 | 5.89 | 7.7 | 0.0 | 3.99 | 1.1 |
| 15.0 | -3.1 | 5.71 | 7.6 | -0.8 | 3.28 | 0.3 |
| 15.5 | -6.7 | .84 | -0.8 | -1.7 | 2.58 | -0.5 |
| 16.0 | -6.7 | .70 | -1.5 | -2.0 | 2.50 | -0.6 |
| 16.5 | -6.1 | .92 | -0.3 | -3.2 | 2.32 | -0.8 |
| 17.0 | -7.4 | .77 | -1.1 | -3.6 | 2.08 | -1.0 |
| 17.5 | -8.2 | .76 | -1.2 | -4.8 | 1.89 | -1.3 |
| 18.0 | -7.0 | 1.06 | 0.3 | -4.5 | 2.43 | -0.6 |
| 18.5 | -7.7 | .35 | -4.5 | -4.3 | 2.83 | -0.2 |
| 19.0 | -7.9 | .49 | -3.1 | -5.4 | 3.81 | 0.9 |
| 19.5 | -7.8 | .77 | -1.1 | -7.9 | 5.09 | 2.4 |
| 20.0 | -6.2 | 3.54 | 5.5 | -5.6 | 9.62 | 7.6 |
| 20.5 | -6.7 | 1.00 | 0.0 | -5.3 | 8.32 | 6.1 |
| 21.0 | -8.1 | .59 | -2.3 | -6.9 | 6.93 | 4.5 |
| 21.5 | -9.1 | .19 | -7.1 | -8.1 | 4.71 | 2.0 |
| 22.0 | -8.4 | .30 | -5.2 | -7.3 | 4.60 | 1.8 |
| 22.5 | -10.3 | .07 | -11.3 | -10.1 | 3.25 | 0.3 |
| 23.0 | -11.6 | .00 | -14.3 | -12.2 | 2.46 | -0.6 |
| 23.5 | -13.2 | .00 | -19.5 | -14.0 | 2.39 | -0.7 |
| 24.0 | -13.7 | .00 | -17.2 | -16.1 | 2.81 | -0.2 |
| 24.5 | -14.4 | .00 | -19.5 | -17.7 | 2.65 | -0.4 |
| 25.0 | -15.1 | .00 | -17.9 | -18.8 | 2.59 | -0.5 |

TSC CH-47C #27: FLYOVER, 141 KT, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -16.6 | .00 | -16.2 | -19.8 | 2.56 | -0.5 |
| 26.0 | -15.8 | .00 | -18.4 | -19.3 | 3.43 | 0.5 |

TSC CH-47C #28: FLYOVER, 150 KT, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -19.4 | .00 | -16.6 | -23.0 | 3.14 | 0.2 |
| 1.0 | -19.4 | .00 | -24.6 | -22.6 | 2.89 | 0.0 |
| 1.5 | -19.3 | .00 | -20.5 | -22.2 | 3.00 | 0.0 |
| 2.0 | -19.3 | .00 | -16.5 | -22.5 | 3.19 | 0.2 |
| 2.5 | -19.8 | .00 | -21.7 | -22.2 | 2.80 | -0.2 |
| 3.0 | -18.7 | .00 | -19.3 | -19.7 | 2.62 | -0.4 |
| 3.5 | -18.0 | .00 | -16.1 | -17.9 | 2.93 | 0.0 |
| 4.0 | -16.9 | .00 | -12.4 | -15.6 | 3.42 | 0.5 |
| 4.5 | -15.5 | .41 | -3.9 | -12.6 | 3.21 | 0.2 |
| 5.0 | -12.9 | .70 | -1.5 | -10.5 | 3.28 | 0.3 |
| 5.5 | -10.5 | 2.77 | 4.4 | -8.0 | 3.34 | 0.4 |
| 6.0 | -7.7 | 9.00 | 9.5 | -5.8 | 4.20 | 1.4 |
| 6.5 | -6.1 | 6.81 | 8.3 | -3.8 | 4.29 | 1.5 |
| 7.0 | -3.8 | 6.46 | 8.1 | -2.0 | 4.89 | 2.2 |
| 7.5 | -0.7 | 8.69 | 9.4 | -0.6 | 8.32 | 6.1 |
| 8.0 | 0.0 | 7.88 | 9.0 | 0.0 | 8.62 | 6.4 |
| 8.5 | -0.8 | 2.54 | 4.1 | -1.0 | 5.79 | 3.2 |
| 9.0 | -2.6 | 3.38 | 5.3 | -1.7 | 4.68 | 1.9 |
| 9.5 | -4.9 | 2.56 | 4.1 | -3.5 | 4.36 | 1.6 |
| 10.0 | -5.3 | 4.33 | 6.4 | -3.6 | 4.07 | 1.2 |
| 10.5 | -6.2 | 3.45 | 5.4 | -3.5 | 3.46 | 0.5 |
| 11.0 | -4.8 | 2.28 | 3.6 | -2.8 | 3.44 | 0.5 |
| 11.5 | -4.5 | 2.95 | 4.7 | -2.4 | 3.12 | 0.1 |
| 12.0 | -4.9 | 1.44 | 1.6 | -2.1 | 2.96 | 0.0 |
| 12.5 | -4.6 | 1.50 | 1.8 | -2.0 | 2.71 | -0.3 |
| 13.0 | -6.2 | .88 | -0.5 | -2.3 | 2.33 | -0.8 |
| 13.5 | -7.2 | 1.33 | 1.3 | -3.5 | 2.09 | -1.0 |
| 14.0 | -8.5 | 1.97 | 3.0 | -4.7 | 1.90 | -1.3 |
| 14.5 | -7.3 | 1.74 | 2.4 | -5.4 | 2.17 | -0.9 |
| 15.0 | -5.9 | 1.16 | 0.7 | -4.7 | 3.56 | 0.6 |
| 15.5 | -6.8 | .52 | -2.8 | -6.0 | 4.18 | 1.4 |
| 16.0 | -6.6 | .68 | -1.6 | -8.0 | 7.51 | 5.2 |
| 16.5 | -8.8 | .10 | -9.9 | -8.2 | 6.59 | 4.1 |
| 17.0 | -8.0 | .06 | -11.7 | -8.5 | 4.17 | 1.3 |
| 17.5 | -7.8 | .00 | -13.5 | -8.5 | 4.17 | 1.3 |
| 18.0 | -8.3 | .07 | -11.2 | -10.0 | 4.22 | 1.4 |
| 18.5 | -10.8 | .00 | -19.0 | -12.6 | 2.95 | 0.0 |
| 19.0 | -11.9 | .00 | -16.0 | -14.5 | 2.45 | -0.6 |
| 19.5 | -13.4 | .00 | -18.5 | -15.6 | 2.40 | -0.7 |
| 20.0 | -14.8 | .00 | -17.0 | -17.4 | 2.45 | -0.6 |
| 20.5 | -16.0 | .00 | -17.5 | -19.3 | 2.46 | -0.6 |
| 21.0 | -15.9 | .00 | -16.3 | -19.2 | 2.46 | -0.6 |
| 21.5 | -14.1 | 1.19 | 0.8 | -19.1 | 3.95 | 1.1 |
| 22.0 | -16.4 | .07 | -11.1 | -20.8 | 2.91 | 0.0 |
| 22.5 | -18.1 | .00 | -22.2 | -21.9 | 3.15 | 0.2 |
| 23.0 | -15.6 | 1.63 | 2.1 | -21.6 | 3.24 | 0.3 |
| 23.5 | -16.4 | .25 | -6.0 | -22.8 | 3.11 | 0.1 |
| 24.0 | -18.7 | .00 | -19.1 | -23.8 | 2.74 | -0.3 |

TSC CH-47C #29: FLYOVER , 150 KT, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -21.6 | .00 | -22.0 | -25.3 | 3.07 | 0.1 |
| 1.0 | -21.7 | .00 | -22.0 | -25.5 | 2.70 | -0.3 |
| 1.5 | -21.3 | .00 | -19.0 | -24.6 | 3.08 | 0.1 |
| 2.0 | -21.3 | .00 | -18.8 | -24.1 | 2.84 | -0.2 |
| 2.5 | -21.2 | .00 | -18.4 | -24.1 | 2.91 | 0.0 |
| 3.0 | -20.7 | .00 | -18.8 | -23.9 | 2.64 | -0.4 |
| 3.5 | -20.9 | .00 | -20.4 | -24.5 | 3.01 | 0.0 |
| 4.0 | -20.5 | .00 | -15.0 | -24.6 | 2.93 | 0.0 |
| 4.5 | -20.6 | .00 | -17.6 | -24.2 | 3.27 | 0.3 |
| 5.0 | -20.4 | .00 | -19.6 | -23.7 | 2.94 | 0.0 |
| 5.5 | -20.2 | .00 | -19.9 | -23.6 | 2.67 | -0.4 |
| 6.0 | -20.4 | .00 | -19.8 | -24.1 | 3.11 | 0.1 |
| 6.5 | -20.1 | .00 | -21.8 | -23.0 | 2.77 | -0.3 |
| 7.0 | -19.6 | .00 | -13.3 | -21.8 | 3.08 | 0.1 |
| 7.5 | -18.5 | .00 | -12.5 | -19.8 | 3.17 | 0.2 |
| 8.0 | -16.4 | .22 | -6.5 | -17.5 | 3.03 | 0.0 |
| 8.5 | -15.6 | .69 | -1.6 | -16.3 | 2.69 | -0.3 |
| 9.0 | -14.5 | .62 | -2.1 | -14.0 | 2.49 | -0.6 |
| 9.5 | -12.9 | .81 | -0.9 | -11.8 | 2.47 | -0.6 |
| 10.0 | -10.5 | .89 | -0.5 | -9.5 | 2.46 | -0.6 |
| 10.5 | -9.6 | 1.65 | 2.2 | -6.9 | 3.36 | 0.4 |
| 11.0 | -7.4 | 1.55 | 1.9 | -4.4 | 4.09 | 1.3 |
| 11.5 | -7.1 | 1.31 | 1.2 | -3.0 | 3.61 | 0.7 |
| 12.0 | -3.7 | 3.14 | 5.0 | -2.3 | 5.22 | 2.5 |
| 12.5 | -1.1 | 4.98 | 7.0 | -1.1 | 7.85 | 5.5 |
| 13.0 | -1.1 | 5.17 | 7.1 | -1.0 | 7.74 | 5.4 |
| 13.5 | -0.5 | 3.78 | 5.8 | -0.5 | 7.75 | 5.4 |
| 14.0 | 0.0 | 2.63 | 4.2 | 0.0 | 7.11 | 4.7 |
| 14.5 | -1.4 | 2.90 | 4.6 | -0.3 | 5.64 | 3.0 |
| 15.0 | -2.0 | 2.55 | 4.1 | -0.8 | 4.83 | 2.1 |
| 15.5 | -1.6 | 6.84 | 8.4 | -1.0 | 4.21 | 1.4 |
| 16.0 | -3.2 | 1.69 | 2.3 | -1.1 | 3.38 | 0.4 |
| 16.5 | -3.9 | 2.86 | 4.6 | -1.7 | 2.94 | 0.0 |
| 17.0 | -5.3 | 3.12 | 4.9 | -2.5 | 2.64 | -0.4 |
| 17.5 | -7.5 | .99 | 0.0 | -3.5 | 2.20 | -0.9 |
| 18.0 | -8.4 | 1.19 | 0.8 | -4.5 | 2.26 | -0.8 |
| 18.5 | -10.5 | .52 | -2.8 | -5.4 | 2.06 | -1.1 |
| 19.0 | -10.5 | .43 | -3.6 | -5.4 | 2.07 | -1.1 |
| 19.5 | -8.3 | .66 | -1.8 | -4.5 | 3.21 | 0.2 |
| 20.0 | -7.3 | .64 | -1.9 | -6.3 | 4.02 | 1.2 |
| 20.5 | -8.0 | .83 | -0.8 | -9.0 | 6.76 | 4.3 |
| 21.0 | -8.0 | .34 | -4.6 | -7.0 | 7.26 | 4.9 |
| 21.5 | -8.2 | .08 | -10.5 | -8.1 | 5.40 | 2.7 |
| 22.0 | -9.4 | .21 | -6.6 | -8.9 | 4.69 | 1.9 |
| 22.5 | -9.5 | .11 | -9.4 | -9.9 | 4.43 | 1.6 |
| 23.0 | -9.6 | 1.12 | 0.5 | -10.3 | 4.25 | 1.4 |
| 23.5 | -13.3 | .00 | -16.8 | -15.0 | 2.62 | -0.4 |
| 24.0 | -14.6 | .00 | -13.1 | -16.6 | 2.44 | -0.6 |
| 24.5 | -15.6 | .00 | -16.6 | -18.7 | 2.47 | -0.6 |
| 25.0 | -17.4 | .00 | -19.8 | -20.6 | 2.53 | -0.5 |

TSC CH-47C #29: FLYOVER , 150 KT, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -18.1 | .00 | -20.5 | -21.4 | 2.62 | -0.4 |
| 26.0 | -18.4 | .07 | -11.3 | -21.5 | 2.68 | -0.4 |
| 26.5 | -17.6 | 1.05 | 0.2 | -21.6 | 3.56 | 0.7 |
| 27.0 | -16.9 | 4.53 | 6.6 | -19.3 | 4.24 | 1.4 |
| 27.5 | -18.4 | .59 | -2.2 | -22.2 | 3.90 | 1.0 |
| 28.0 | -18.8 | .62 | -2.0 | -22.9 | 3.11 | 0.1 |
| 28.5 | -20.5 | .00 | -17.8 | -23.4 | 2.71 | -0.3 |
| 29.0 | -18.8 | .38 | -4.2 | -23.2 | 2.81 | -0.2 |

TSC CH-47C #35: 3 DEG APRCH, 60 KT, 400 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -11.3 | .63 | -1.9 | -10.4 | 6.51 | 4.0 |
| 1.0 | -11.5 | .65 | -1.8 | -10.1 | 6.07 | 3.5 |
| 1.5 | -12.2 | .54 | -2.6 | -10.4 | 6.00 | 3.4 |
| 2.0 | -12.1 | .69 | -1.6 | -10.4 | 6.30 | 3.8 |
| 2.5 | -12.7 | .60 | -2.2 | -11.1 | 6.05 | 3.5 |
| 3.0 | -12.7 | .54 | -2.6 | -11.4 | 4.52 | 1.7 |
| 3.5 | -13.2 | .14 | -8.4 | -12.9 | 3.85 | 1.0 |
| 4.0 | -14.1 | .18 | -7.4 | -13.6 | 3.46 | 0.5 |
| 4.5 | -14.5 | .11 | -9.4 | -12.9 | 3.55 | 0.6 |
| 5.0 | -14.8 | .09 | -10.2 | -13.0 | 4.90 | 2.2 |
| 5.5 | -15.0 | .00 | -12.1 | -14.0 | 4.72 | 2.0 |
| 6.0 | -15.8 | .00 | -16.5 | -13.9 | 4.41 | 1.6 |
| 6.5 | -16.2 | .00 | -14.9 | -13.4 | 3.49 | 0.6 |
| 7.0 | -16.1 | .00 | -16.2 | -14.7 | 3.30 | 0.3 |
| 7.5 | -16.1 | .00 | -16.9 | -14.1 | 3.43 | 0.5 |
| 8.0 | -16.1 | .00 | -13.0 | -13.9 | 2.96 | 0.0 |
| 8.5 | -15.7 | .00 | -15.6 | -14.4 | 3.26 | 0.3 |
| 9.0 | -14.8 | .00 | -14.5 | -15.1 | 3.23 | 0.3 |
| 9.5 | -13.1 | 2.30 | 3.6 | -13.3 | 2.69 | -0.3 |
| 10.0 | -14.1 | .00 | -16.2 | -12.5 | 3.27 | 0.3 |
| 10.5 | -13.4 | .13 | -8.9 | -13.9 | 3.69 | 0.8 |
| 11.0 | -13.7 | .11 | -9.5 | -14.5 | 4.28 | 1.5 |
| 11.5 | -14.0 | .12 | -9.0 | -14.1 | 4.36 | 1.6 |
| 12.0 | -13.6 | .23 | -6.2 | -14.4 | 4.13 | 1.3 |
| 12.5 | -13.5 | .21 | -6.6 | -14.0 | 5.17 | 2.5 |
| 13.0 | -13.0 | .62 | -2.0 | -13.0 | 6.02 | 3.5 |
| 13.5 | -13.0 | .72 | -1.4 | -13.2 | 5.36 | 2.7 |
| 14.0 | -11.9 | 1.76 | 2.5 | -12.2 | 6.07 | 3.5 |
| 14.5 | -12.8 | .39 | -4.0 | -12.3 | 4.58 | 1.8 |
| 15.0 | -11.4 | .19 | -7.1 | -11.1 | 3.58 | 0.7 |
| 15.5 | -11.9 | .06 | -11.7 | -12.4 | 2.99 | 0.0 |
| 16.0 | -12.3 | .00 | -13.0 | -13.0 | 3.13 | 0.2 |
| 16.5 | -11.3 | .11 | -9.4 | -11.5 | 3.99 | 1.1 |
| 17.0 | -10.8 | .15 | -8.2 | -11.4 | 4.07 | 1.2 |
| 17.5 | -10.3 | .23 | -6.3 | -8.8 | 3.78 | 0.9 |
| 18.0 | -11.2 | .11 | -9.4 | -11.3 | 4.44 | 1.7 |
| 18.5 | -11.2 | .18 | -7.4 | -11.2 | 3.58 | 0.7 |
| 19.0 | -11.0 | .38 | -4.2 | -10.2 | 4.50 | 1.7 |
| 19.5 | -10.4 | .67 | -1.7 | -10.0 | 5.38 | 2.7 |
| 20.0 | -9.7 | .55 | -2.5 | -10.3 | 5.74 | 3.1 |
| 20.5 | -8.2 | 2.69 | 4.3 | -9.7 | 4.64 | 1.9 |
| 21.0 | -7.2 | 4.04 | 6.1 | -9.0 | 4.18 | 1.4 |
| 21.5 | -10.3 | .32 | -4.9 | -11.2 | 3.13 | 0.2 |
| 22.0 | -9.4 | .26 | -5.8 | -10.7 | 3.24 | 0.3 |
| 22.5 | -8.8 | .77 | -1.1 | -10.3 | 3.17 | 0.2 |
| 23.0 | -8.0 | .61 | -2.1 | -10.1 | 3.34 | 0.4 |
| 23.5 | -5.8 | 1.42 | 1.5 | -7.7 | 4.57 | 1.8 |
| 24.0 | -6.3 | 1.00 | 0.0 | -6.6 | 5.07 | 2.4 |
| 24.5 | -7.7 | .24 | -6.1 | -6.8 | 3.75 | 0.9 |
| 25.0 | -6.9 | .64 | -1.9 | -7.0 | 3.45 | 0.5 |

TSC CH-47C #35: 3 DEG APRCH, 60 KT, 400 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -6.2 | .37 | -4.2 | -7.1 | 3.57 | 0.7 |
| 26.0 | -5.7 | .66 | -1.8 | -6.3 | 3.43 | 0.5 |
| 26.5 | -4.8 | .73 | -1.4 | -5.1 | 3.02 | 0.0 |
| 27.0 | -4.5 | 2.13 | 3.3 | -5.1 | 3.49 | 0.6 |
| 27.5 | -5.0 | .36 | -4.3 | -5.3 | 3.56 | 0.6 |
| 28.0 | -3.5 | 1.23 | 0.9 | -5.0 | 4.12 | 1.3 |
| 28.5 | -2.5 | 3.59 | 5.6 | -3.3 | 4.21 | 1.4 |
| 29.0 | -1.7 | .67 | -1.7 | -2.9 | 3.90 | 1.0 |
| 29.5 | -1.5 | .47 | -3.2 | -2.4 | 4.07 | 1.2 |
| 30.0 | 0.0 | .73 | -1.3 | -1.7 | 3.69 | 0.8 |
| 30.5 | -1.8 | .23 | -6.3 | -2.1 | 3.20 | 0.2 |
| 31.0 | -1.0 | .58 | -2.3 | -2.5 | 3.51 | 0.6 |
| 31.5 | -0.9 | 1.21 | 0.8 | -2.2 | 3.72 | 0.8 |
| 32.0 | -1.2 | .46 | -3.3 | -2.4 | 4.48 | 1.7 |
| 32.5 | -0.5 | 3.56 | 5.5 | -0.5 | 7.02 | 4.6 |
| 33.0 | -0.5 | 5.98 | 7.8 | 0.0 | 7.13 | 4.7 |
| 33.5 | -0.6 | 2.16 | 3.4 | -0.5 | 7.87 | 5.6 |
| 34.0 | -4.2 | .77 | -1.1 | -3.1 | 6.30 | 3.8 |
| 34.5 | -4.8 | .17 | -7.6 | -3.0 | 5.29 | 2.6 |
| 35.0 | -1.7 | 3.00 | 4.8 | -1.0 | 6.45 | 3.9 |
| 35.5 | -2.1 | 1.64 | 2.1 | -1.8 | 4.84 | 2.1 |
| 36.0 | -2.5 | 1.57 | 2.0 | -2.4 | 5.11 | 2.4 |
| 36.5 | -5.7 | .71 | -1.4 | -4.8 | 3.08 | 0.1 |
| 37.0 | -6.8 | .00 | -14.8 | -6.3 | 3.09 | 0.1 |
| 37.5 | -6.4 | .28 | -5.5 | -7.5 | 3.55 | 0.6 |
| 38.0 | -7.1 | .19 | -7.2 | -8.7 | 3.34 | 0.4 |
| 38.5 | -8.1 | .00 | -15.5 | -9.0 | 2.79 | -0.2 |
| 39.0 | -8.1 | .18 | -7.4 | -4.0 | 4.14 | 1.3 |
| 39.5 | -9.3 | .11 | -9.3 | -10.0 | 3.24 | 0.3 |
| 40.0 | -11.0 | .00 | -12.3 | -11.7 | 3.04 | 0.1 |
| 40.5 | -11.7 | .00 | -18.9 | -12.5 | 3.45 | 0.5 |
| 41.0 | -11.8 | .00 | -15.3 | -13.2 | 2.96 | 0.0 |
| 41.5 | -12.3 | .00 | -18.5 | -13.4 | 3.10 | 0.1 |
| 42.0 | -13.0 | .00 | -18.1 | -14.0 | 2.85 | -0.2 |
| 42.5 | -14.1 | .00 | -18.6 | -14.4 | 2.94 | 0.0 |
| 43.0 | -14.3 | .00 | -17.1 | -15.1 | 3.11 | 0.1 |
| 43.5 | -14.9 | .00 | -16.3 | -15.0 | 2.82 | -0.2 |
| 44.0 | -15.4 | .00 | -17.0 | -16.2 | 2.89 | 0.0 |

TSC BELL 212 #24: 6 DEG APRCH, 55 KT 380 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -14.4 | 10.33 | 10.1 | -10.2 | 2.85 | -0.2 |
| 1.0 | -13.9 | 9.72 | 9.9 | -10.2 | 2.81 | -0.2 |
| 1.5 | -14.8 | 8.77 | 9.4 | -10.1 | 3.01 | 0.0 |
| 2.0 | -16.1 | 3.54 | 5.5 | -10.1 | 2.72 | -0.3 |
| 2.5 | -16.9 | 3.34 | 5.2 | -10.3 | 2.76 | -0.3 |
| 3.0 | -17.7 | 1.64 | 2.2 | -10.4 | 3.32 | 0.4 |
| 3.5 | -18.5 | 2.76 | 4.4 | -10.2 | 2.97 | 0.0 |
| 4.0 | -17.8 | 2.58 | 4.1 | -10.4 | 2.70 | -0.3 |
| 4.5 | -17.6 | 2.96 | 4.7 | -10.8 | 3.09 | 0.1 |
| 5.0 | -18.7 | 1.99 | 3.0 | -11.1 | 2.73 | -0.3 |
| 5.5 | -18.2 | 3.61 | 5.6 | -11.2 | 2.63 | -0.4 |
| 6.0 | -17.2 | 4.17 | 6.2 | -10.9 | 2.92 | 0.0 |
| 6.5 | -17.0 | 5.27 | 7.2 | -11.1 | 3.40 | 0.5 |
| 7.0 | -16.4 | 6.87 | 8.4 | -10.8 | 3.06 | 0.1 |
| 7.5 | -15.8 | 5.47 | 7.4 | -10.4 | 3.33 | 0.4 |
| 8.0 | -15.9 | 3.41 | 5.3 | -10.6 | 3.17 | 0.2 |
| 8.5 | -16.7 | 3.37 | 5.3 | -11.0 | 3.68 | 0.8 |
| 9.0 | -15.2 | 5.23 | 7.2 | -10.2 | 3.65 | 0.8 |
| 9.5 | -14.1 | 7.76 | 8.9 | -10.1 | 3.97 | 1.1 |
| 10.0 | -14.1 | 14.94 | 11.7 | -10.5 | 4.31 | 1.5 |
| 10.5 | -16.3 | 14.04 | 11.5 | -11.2 | 4.05 | 1.2 |
| 11.0 | -15.2 | 7.47 | 8.7 | -10.5 | 3.71 | 0.8 |
| 11.5 | -14.0 | 9.49 | 9.8 | -10.3 | 3.22 | 0.3 |
| 12.0 | -13.6 | 6.87 | 8.4 | -10.1 | 3.58 | 0.7 |
| 12.5 | -12.9 | 17.00 | 12.3 | -9.7 | 3.54 | 0.6 |
| 13.0 | -13.3 | 6.58 | 8.2 | -9.4 | 3.83 | 1.0 |
| 13.5 | -13.0 | 5.84 | 7.7 | -9.2 | 3.49 | 0.6 |
| 14.0 | -13.1 | 1.99 | 3.0 | -9.2 | 3.51 | 0.6 |
| 14.5 | -12.2 | 1.03 | 0.2 | -9.3 | 3.64 | 0.7 |
| 15.0 | -11.7 | 7.42 | 8.7 | -9.3 | 3.64 | 0.7 |
| 15.5 | -11.0 | 9.23 | 9.7 | -9.4 | 3.44 | 0.5 |
| 16.0 | -10.9 | 5.47 | 7.4 | -8.8 | 4.03 | 1.2 |
| 16.5 | -10.2 | 5.65 | 7.5 | -8.1 | 3.86 | 1.0 |
| 17.0 | -11.3 | 3.49 | 5.4 | -8.3 | 3.72 | 0.8 |
| 17.5 | -12.2 | 4.34 | 6.4 | -8.0 | 3.35 | 0.4 |
| 18.0 | -10.6 | 10.12 | 10.1 | -7.5 | 3.20 | 0.2 |
| 18.5 | -10.7 | 5.10 | 7.1 | -7.6 | 3.44 | 0.5 |
| 19.0 | -11.3 | 8.14 | 9.1 | -7.8 | 3.14 | 0.2 |
| 19.5 | -12.1 | 9.64 | 9.8 | -7.9 | 3.05 | 0.1 |
| 20.0 | -11.4 | 8.04 | 9.1 | -7.5 | 3.14 | 0.2 |
| 20.5 | -10.6 | 11.88 | 10.8 | -7.6 | 3.13 | 0.1 |
| 21.0 | -9.4 | 17.16 | 12.3 | -7.2 | 3.20 | 0.2 |
| 21.5 | -9.5 | 34.75 | 15.4 | -7.5 | 3.27 | 0.3 |
| 22.0 | -8.1 | 20.03 | 13.0 | -7.4 | 3.39 | 0.5 |
| 22.5 | -6.2 | 46.95 | 16.7 | -7.0 | 3.57 | 0.7 |
| 23.0 | -6.8 | 29.00 | 14.6 | -6.5 | 3.41 | 0.5 |
| 23.5 | -10.3 | 7.90 | 9.0 | -6.8 | 3.24 | 0.3 |
| 24.0 | -10.2 | 15.30 | 11.8 | -6.5 | 3.26 | 0.3 |
| 24.5 | -7.7 | 21.38 | 13.3 | -6.0 | 3.06 | 0.1 |
| 25.0 | -5.9 | 28.99 | 14.6 | -5.9 | 3.79 | 0.9 |

TSC BELL 212 #24: 6 DEG APRCH, 55 KT 380 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -4.7 | 29.86 | 14.8 | -6.0 | 4.12 | 1.3 |
| 26.0 | -5.5 | 43.90 | 16.4 | -6.3 | 3.58 | 0.7 |
| 26.5 | -7.8 | 17.56 | 12.4 | -6.7 | 3.02 | 0.0 |
| 27.0 | -9.8 | 18.45 | 12.7 | -7.6 | 2.77 | -0.3 |
| 27.5 | -10.5 | 24.51 | 13.9 | -7.2 | 2.84 | -0.2 |
| 28.0 | -13.2 | 8.59 | 9.3 | -8.2 | 2.80 | -0.2 |
| 28.5 | -12.7 | 5.70 | 7.6 | -7.5 | 2.50 | -0.6 |
| 29.0 | -11.3 | 6.32 | 8.0 | -6.8 | 2.76 | -0.3 |
| 29.5 | -10.9 | 5.88 | 7.7 | -6.3 | 2.80 | -0.2 |
| 30.0 | -7.1 | 51.69 | 17.1 | -5.2 | 2.83 | -0.2 |
| 30.5 | -4.8 | 26.74 | 14.3 | -4.6 | 2.79 | -0.2 |
| 31.0 | -6.1 | 11.68 | 10.7 | -4.7 | 3.09 | 0.1 |
| 31.5 | -8.9 | 5.13 | 7.1 | -4.5 | 2.81 | -0.2 |
| 32.0 | -7.3 | 18.17 | 12.6 | -4.7 | 2.74 | -0.3 |
| 32.5 | -4.4 | 15.38 | 11.9 | -4.0 | 2.95 | 0.0 |
| 33.0 | -5.9 | 6.84 | 8.4 | -3.9 | 2.80 | -0.2 |
| 33.5 | -6.0 | 8.33 | 9.2 | -4.2 | 2.78 | -0.2 |
| 34.0 | -5.9 | 9.14 | 9.6 | -4.4 | 2.80 | -0.2 |
| 34.5 | -5.5 | 13.20 | 11.2 | -4.1 | 3.01 | 0.0 |
| 35.0 | -3.6 | 12.73 | 11.1 | -4.4 | 2.94 | 0.0 |
| 35.5 | -5.6 | 6.78 | 8.3 | -4.2 | 2.96 | 0.0 |
| 36.0 | -3.8 | 28.61 | 14.6 | -3.6 | 3.61 | 0.7 |
| 36.5 | -3.2 | 7.99 | 9.0 | -3.1 | 3.09 | 0.1 |
| 37.0 | -3.7 | 5.89 | 7.7 | -3.3 | 2.70 | -0.3 |
| 37.5 | -2.0 | 11.51 | 10.6 | -2.9 | 3.43 | 0.5 |
| 38.0 | -3.3 | 5.94 | 7.7 | -2.4 | 3.25 | 0.3 |
| 38.5 | -2.8 | 8.22 | 9.2 | -2.2 | 3.06 | 0.1 |
| 39.0 | -1.8 | 13.45 | 11.3 | -2.0 | 3.41 | 0.5 |
| 39.5 | -1.7 | 5.27 | 7.2 | -1.9 | 3.95 | 1.1 |
| 40.0 | -0.4 | 6.53 | 8.2 | -0.9 | 5.02 | 2.3 |
| 40.5 | -1.0 | 5.47 | 7.4 | -1.0 | 4.34 | 1.5 |
| 41.0 | -3.2 | 1.97 | 3.0 | -2.0 | 3.49 | 0.6 |
| 41.5 | -2.1 | 6.07 | 7.8 | -1.9 | 3.57 | 0.7 |
| 42.0 | 0.0 | 6.85 | 8.4 | -1.1 | 6.09 | 3.5 |
| 42.5 | -2.0 | 2.82 | 4.5 | -0.7 | 4.10 | 1.3 |
| 43.0 | -0.3 | 2.10 | 3.2 | 0.0 | 5.90 | 3.3 |
| 43.5 | -2.3 | .65 | -1.8 | -1.0 | 3.89 | 1.0 |
| 44.0 | -3.1 | .38 | -4.1 | -1.3 | 3.37 | 0.4 |
| 44.5 | -3.7 | .15 | -8.0 | -0.8 | 3.23 | 0.3 |
| 45.0 | -4.2 | .00 | -13.3 | -1.1 | 2.74 | -0.3 |
| 45.5 | -3.5 | .17 | -7.6 | -0.6 | 3.52 | 0.6 |
| 46.0 | -3.5 | .11 | -9.5 | -0.9 | 3.01 | 0.0 |
| 46.5 | -3.4 | .75 | -1.2 | -0.9 | 3.05 | 0.1 |
| 47.0 | -3.8 | 2.38 | 3.8 | -1.8 | 3.45 | 0.5 |
| 47.5 | -3.2 | .42 | -3.7 | -1.7 | 3.28 | 0.3 |
| 48.0 | -4.5 | 3.04 | 4.8 | -2.2 | 3.20 | 0.2 |
| 48.5 | -5.8 | 2.49 | 4.0 | -4.0 | 3.40 | 0.5 |
| 49.0 | -5.1 | 2.15 | 3.3 | -3.3 | 3.55 | 0.6 |
| 49.5 | -5.2 | 4.00 | 6.0 | -3.6 | 3.31 | 0.4 |
| 50.0 | -5.6 | 3.05 | 4.8 | -4.3 | 3.60 | 0.7 |

TSC BELL 212 #24: 6 DEG APRCH, 55 KT 380 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 50.5 | -6.6 | 3.68 | 5.7 | -5.1 | 3.29 | 0.3 |
| 51.0 | -7.2 | .91 | -0.4 | -6.4 | 2.88 | 0.0 |
| 51.5 | -7.0 | 3.11 | 4.9 | -5.8 | 3.03 | 0.0 |
| 52.0 | -6.1 | 2.20 | 3.4 | -6.8 | 3.69 | 0.8 |
| 52.5 | -7.7 | 5.47 | 7.4 | -7.2 | 3.01 | 0.0 |
| 53.0 | -8.3 | 2.53 | 4.0 | -7.4 | 2.30 | -0.8 |
| 53.5 | -7.8 | 3.75 | 5.7 | -7.9 | 2.53 | -0.5 |
| 54.0 | -11.1 | 4.08 | 6.1 | -8.2 | 2.55 | -0.5 |
| 54.5 | -11.4 | .41 | -3.8 | -9.6 | 2.43 | -0.6 |
| 55.0 | -12.9 | 1.39 | 1.4 | -10.0 | 2.60 | -0.4 |
| 55.5 | -14.1 | .85 | -0.7 | -11.1 | 2.52 | -0.5 |
| 56.0 | -13.4 | .61 | -2.1 | -10.6 | 2.38 | -0.7 |
| 56.5 | -10.2 | .26 | -5.8 | -11.4 | 2.88 | 0.0 |
| 57.0 | -12.7 | .33 | -4.7 | -12.6 | 2.53 | -0.5 |
| 57.5 | -13.0 | .52 | -2.8 | -12.3 | 2.80 | -0.2 |
| 58.0 | -12.4 | 11.03 | 10.4 | -11.4 | 2.81 | -0.2 |
| 58.5 | -14.5 | 12.24 | 10.9 | -11.7 | 2.76 | -0.3 |
| 59.0 | -16.2 | 1.69 | 2.3 | -12.6 | 2.78 | -0.2 |
| 59.5 | -14.7 | 11.99 | 10.8 | -13.1 | 3.64 | 0.7 |
| 60.0 | -14.6 | .59 | -2.2 | -14.7 | 2.77 | -0.3 |
| 60.5 | -15.7 | .31 | -5.0 | -13.7 | 3.21 | 0.2 |

TSC BELL 212 #27: 9 DEG APRCH, 58 KT, 420 FT

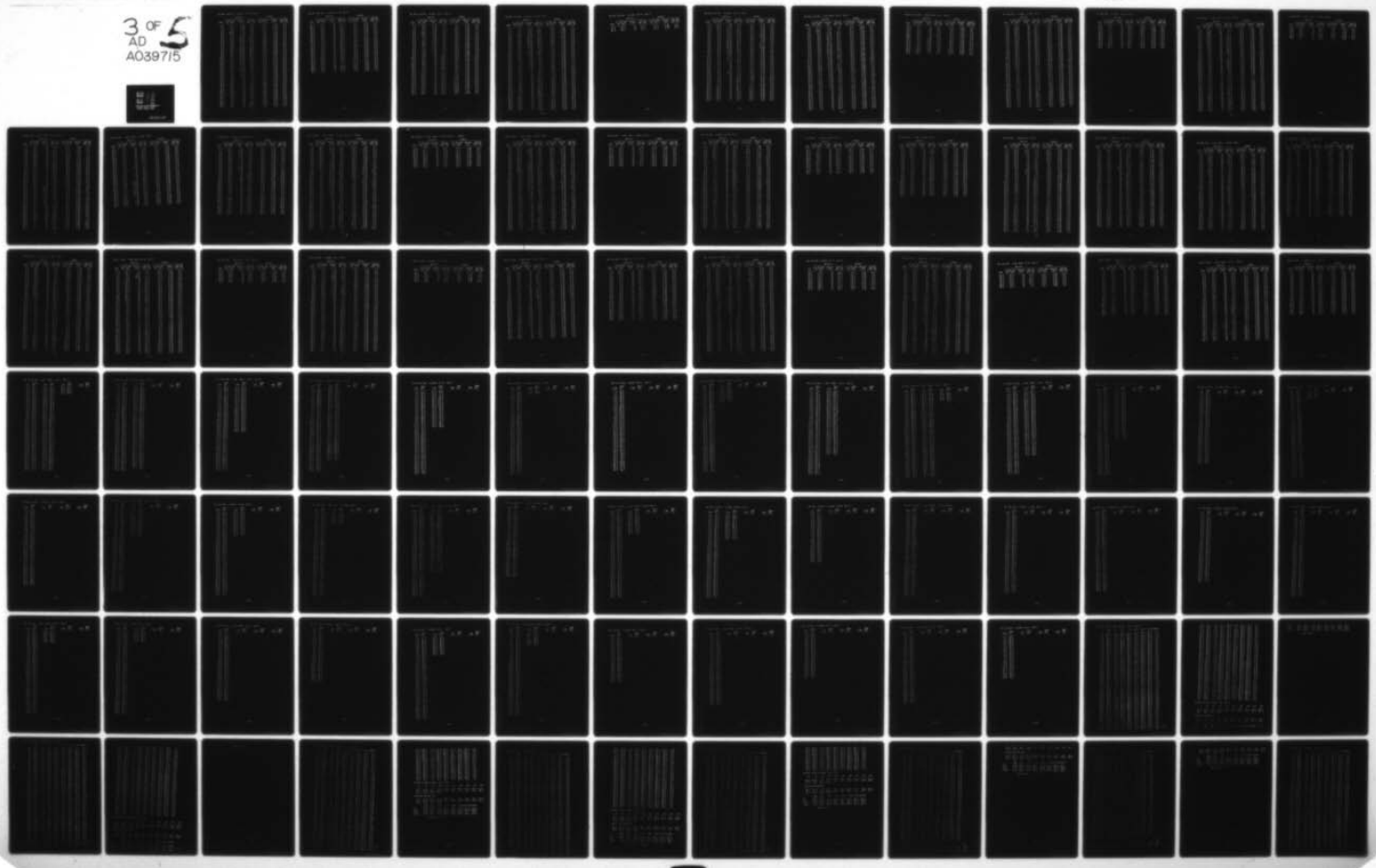
| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -10.8 | 15.98 | 12.0 | -10.5 | 3.65 | 0.7 |
| 1.0 | -14.2 | 12.67 | 11.0 | -10.8 | 3.10 | 0.1 |
| 1.5 | -16.4 | 3.56 | 5.5 | -10.9 | 2.88 | 0.0 |
| 2.0 | -18.0 | .84 | -0.7 | -10.7 | 2.99 | 0.0 |
| 2.5 | -18.1 | 1.07 | 0.3 | -10.1 | 3.17 | 0.2 |
| 3.0 | -17.2 | 1.60 | 2.1 | -10.2 | 3.01 | 0.0 |
| 3.5 | -15.4 | 6.15 | 7.9 | -10.1 | 2.75 | -0.3 |
| 4.0 | -14.5 | 7.76 | 8.9 | -10.0 | 2.85 | -0.2 |
| 4.5 | -13.0 | 10.94 | 10.4 | -10.0 | 2.89 | 0.0 |
| 5.0 | -10.1 | 16.84 | 12.3 | -9.1 | 2.96 | 0.0 |
| 5.5 | -10.4 | 21.00 | 13.2 | -9.3 | 2.91 | 0.0 |
| 6.0 | -11.1 | 12.46 | 11.0 | -9.3 | 2.86 | 0.0 |
| 6.5 | -9.7 | 19.72 | 12.9 | -8.4 | 2.92 | 0.0 |
| 7.0 | -7.9 | 18.35 | 12.6 | -8.3 | 3.90 | 1.0 |
| 7.5 | -8.7 | 22.85 | 13.6 | -8.4 | 3.20 | 0.2 |
| 8.0 | -9.2 | 20.69 | 13.2 | -8.3 | 2.95 | 0.0 |
| 8.5 | -10.0 | 18.71 | 12.7 | -8.3 | 2.81 | -0.2 |
| 9.0 | -10.2 | 17.11 | 12.3 | -7.9 | 2.98 | 0.0 |
| 9.5 | -11.8 | 20.34 | 13.1 | -8.2 | 2.89 | 0.0 |
| 10.0 | -11.1 | 15.19 | 11.8 | -7.9 | 2.72 | -0.3 |
| 10.5 | -9.5 | 13.61 | 11.3 | -7.6 | 2.78 | -0.2 |
| 11.0 | -8.5 | 13.00 | 11.1 | -7.2 | 2.94 | 0.0 |
| 11.5 | -8.6 | 16.46 | 12.2 | -7.6 | 3.10 | 0.1 |
| 12.0 | -7.4 | 22.00 | 13.4 | -7.5 | 3.84 | 1.0 |
| 12.5 | -6.9 | 20.11 | 13.0 | -6.9 | 3.23 | 0.3 |
| 13.0 | -6.5 | 19.50 | 12.9 | -6.9 | 3.38 | 0.4 |
| 13.5 | -6.5 | 21.01 | 13.2 | -6.4 | 3.45 | 0.5 |
| 14.0 | -7.5 | 24.67 | 13.9 | -6.6 | 3.84 | 1.0 |
| 14.5 | -6.9 | 23.55 | 13.7 | -6.2 | 3.31 | 0.4 |
| 15.0 | -5.9 | 16.35 | 12.1 | -5.3 | 3.69 | 0.8 |
| 15.5 | -7.5 | 19.09 | 12.8 | -6.0 | 3.46 | 0.5 |
| 16.0 | -6.5 | 22.21 | 13.5 | -5.7 | 3.65 | 0.7 |
| 16.5 | -3.8 | 20.09 | 13.0 | -4.6 | 4.37 | 1.6 |
| 17.0 | -2.4 | 23.50 | 13.7 | -3.8 | 5.49 | 2.9 |
| 17.5 | -3.1 | 30.96 | 14.9 | -4.1 | 5.54 | 2.9 |
| 18.0 | -4.4 | 22.85 | 13.6 | -4.9 | 4.88 | 2.2 |
| 18.5 | -4.5 | 21.70 | 13.4 | -4.6 | 4.68 | 1.9 |
| 19.0 | -3.6 | 26.97 | 14.3 | -4.2 | 5.52 | 2.9 |
| 19.5 | -3.3 | 22.67 | 13.6 | -3.5 | 5.27 | 2.6 |
| 20.0 | -2.9 | 19.79 | 13.0 | -3.9 | 5.16 | 2.5 |
| 20.5 | -2.7 | 16.06 | 12.1 | -3.2 | 4.93 | 2.2 |
| 21.0 | -3.6 | 26.30 | 14.2 | -3.4 | 4.73 | 2.0 |
| 21.5 | -3.4 | 15.77 | 12.0 | -3.9 | 5.53 | 2.9 |
| 22.0 | -1.5 | 9.24 | 9.7 | -2.5 | 5.96 | 3.4 |
| 22.5 | -1.8 | 14.91 | 11.7 | -2.8 | 6.02 | 3.5 |
| 23.0 | -3.4 | 13.63 | 11.3 | -2.8 | 5.37 | 2.7 |
| 23.5 | -1.8 | 12.28 | 10.9 | -2.4 | 5.24 | 2.6 |
| 24.0 | -2.7 | 14.65 | 11.7 | -2.5 | 4.91 | 2.2 |
| 24.5 | -1.9 | 19.69 | 12.9 | -1.7 | 5.94 | 3.4 |
| 25.0 | -0.5 | 6.91 | 8.4 | -1.2 | 4.92 | 2.2 |

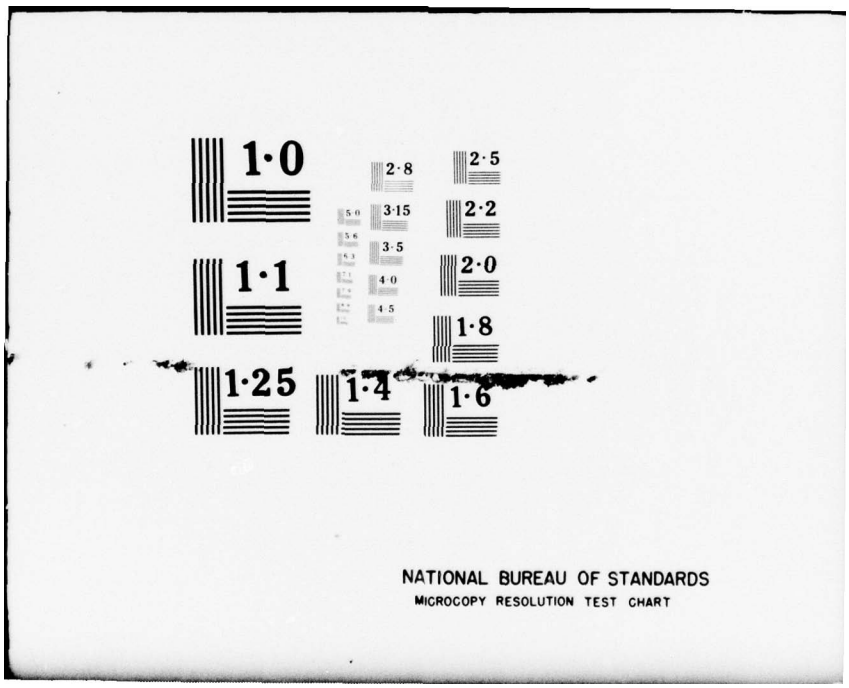
TSC BELL 212 #27: 9 DEG APRCH, 58 KT, 420 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | 0.0 | 6.39 | 8.1 | -0.7 | 6.00 | 3.4 |
| 26.0 | -0.7 | 10.54 | 10.2 | -0.9 | 6.32 | 3.8 |
| 26.5 | -1.9 | 5.99 | 7.8 | -1.6 | 4.93 | 2.2 |
| 27.0 | -0.4 | 7.68 | 8.9 | -0.4 | 6.43 | 3.9 |
| 27.5 | -0.7 | 4.57 | 6.6 | 0.0 | 7.19 | 4.8 |
| 28.0 | -0.8 | 8.11 | 9.1 | -0.4 | 6.09 | 3.5 |
| 28.5 | -1.3 | 4.71 | 6.7 | 0.0 | 6.40 | 3.9 |
| 29.0 | -3.3 | 1.47 | 1.7 | -0.6 | 5.31 | 2.6 |
| 29.5 | -4.4 | .74 | -1.3 | -1.2 | 3.15 | 0.2 |
| 30.0 | -4.4 | .22 | -6.5 | -0.9 | 3.27 | 0.3 |
| 30.5 | -4.2 | .06 | -11.7 | -1.2 | 3.10 | 0.1 |
| 31.0 | -3.6 | .12 | -8.9 | -0.3 | 3.80 | 0.9 |
| 31.5 | -4.3 | .00 | -13.4 | -0.7 | 2.60 | -0.4 |
| 32.0 | -4.3 | .06 | -11.9 | -0.5 | 2.76 | -0.3 |
| 32.5 | -4.6 | .14 | -8.2 | -0.5 | 2.96 | 0.0 |
| 33.0 | -4.6 | .23 | -6.3 | -1.4 | 2.80 | -0.2 |
| 33.5 | -4.4 | .58 | -2.3 | -0.9 | 3.35 | 0.4 |
| 34.0 | -3.2 | 4.79 | 6.8 | -0.9 | 4.95 | 2.2 |
| 34.5 | -4.2 | 3.99 | 6.0 | -1.7 | 4.47 | 1.7 |
| 35.0 | -4.1 | 4.16 | 6.2 | -2.7 | 4.74 | 2.0 |
| 35.5 | -4.8 | 5.11 | 7.1 | -3.3 | 4.27 | 1.5 |
| 36.0 | -4.6 | 6.50 | 8.1 | -4.0 | 4.05 | 1.2 |
| 36.5 | -5.1 | 13.23 | 11.2 | -4.7 | 5.35 | 2.7 |
| 37.0 | -5.0 | 12.59 | 11.0 | -4.5 | 4.98 | 2.3 |
| 37.5 | -5.1 | 15.96 | 12.0 | -4.9 | 4.66 | 1.9 |
| 38.0 | -6.4 | 14.57 | 11.6 | -6.0 | 3.93 | 1.1 |
| 38.5 | -8.2 | 5.47 | 7.4 | -7.1 | 2.88 | 0.0 |
| 39.0 | -8.4 | 7.34 | 8.7 | -7.1 | 2.86 | -0.2 |
| 39.5 | -9.8 | 2.60 | 4.2 | -7.9 | 2.61 | -0.4 |
| 40.0 | -9.6 | 1.49 | 1.7 | -8.5 | 2.84 | -0.2 |
| 40.5 | -12.4 | .60 | -2.2 | -10.0 | 2.45 | -0.6 |
| 41.0 | -11.2 | 1.94 | 2.9 | -10.1 | 2.80 | -0.2 |
| 41.5 | -6.3 | 1.66 | 2.2 | -9.2 | 3.73 | 0.8 |
| 42.0 | -12.3 | 8.61 | 9.4 | -10.8 | 3.09 | 0.1 |
| 42.5 | -14.4 | 2.56 | 4.1 | -11.8 | 3.12 | 0.1 |
| 43.0 | -15.8 | 1.95 | 2.9 | -12.3 | 2.48 | -0.6 |
| 43.5 | -15.1 | 4.35 | 6.4 | -13.1 | 2.57 | -0.5 |
| 44.0 | -14.8 | 1.00 | 0.0 | -12.9 | 2.99 | 0.0 |
| 44.5 | -16.1 | .40 | -4.0 | -13.2 | 3.09 | 0.1 |

AD-A039 715 BOLT BERANEK AND NEWMAN INC CANOGA PARK CALIF F/G 1/3
PHYSICAL ANALYSIS OF THE IMPULSIVE ASPECTS OF HELICOPTER NOISE.(U)
APR 77 W J GALLOWAY WI-77-3683-1
UNCLASSIFIED BBN-3425 FAA-EQ-77-8 NL

3 OF 5
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NATIONAL BUREAU OF STANDARDS
MICROCOPY RESOLUTION TEST CHART

TSC BELL 212 #31: FLYOVER, 61 KT, 500 FT

| TIME | BRITISH 0.5 SEC RMS (RE: MAX) | BRITISH IMPULSE COEF | BRITISH IMPULSE COEF (DB) | FRENCH 0.5 SEC RMS (RE: MAX) | FRENCH IMPULSE COEF | FRENCH IMPULSE CORR (DB) |
|---|---|---|---|---|---|---|
| 0.5 | -9.0 | 6.64 | 8.2 | -4.7 | 3.43 | 0.5 |
| 1.0 | -8.3 | 9.83 | 9.9 | -4.6 | 3.55 | 0.6 |
| 1.5 | -8.4 | 12.08 | 10.8 | -5.1 | 3.85 | 1.0 |
| 2.0 | -9.0 | 7.33 | 8.7 | -5.3 | 3.91 | 1.0 |
| 2.5 | -10.5 | 6.92 | 8.4 | -4.8 | 3.76 | 0.9 |
| 3.0 | -10.1 | 4.33 | 6.4 | -4.6 | 3.49 | 0.6 |
| 3.5 | -9.4 | 3.30 | 5.2 | -4.2 | 3.40 | 0.5 |
| 4.0 | -7.8 | 12.98 | 11.1 | -4.8 | 3.26 | 0.3 |
| 4.5 | -5.4 | 10.18 | 10.1 | -4.2 | 3.33 | 0.4 |
| 5.0 | -3.3 | 25.16 | 14.0 | -4.0 | 3.64 | 0.7 |
| 5.5 | -4.6 | 13.28 | 11.2 | -3.5 | 3.57 | 0.7 |
| 6.0 | -5.2 | 14.13 | 11.5 | -3.4 | 3.20 | 0.2 |
| 6.5 | -5.5 | 13.02 | 11.1 | -3.5 | 2.96 | 0.0 |
| 7.0 | -3.9 | 25.17 | 14.0 | -3.1 | 3.21 | 0.3 |
| 7.5 | -2.1 | 22.08 | 13.4 | -2.7 | 3.06 | 0.1 |
| 8.0 | -0.9 | 24.97 | 14.0 | -2.3 | 3.10 | 0.1 |
| 8.5 | -3.1 | 35.25 | 15.5 | -1.8 | 2.92 | 0.0 |
| 9.0 | -0.9 | 20.37 | 13.1 | -1.5 | 3.03 | 0.0 |
| 9.5 | -1.2 | 31.59 | 15.0 | -1.2 | 2.94 | 0.0 |
| 10.0 | -0.5 | 33.85 | 15.3 | -1.5 | 3.07 | 0.1 |
| 10.5 | -1.0 | 23.69 | 13.7 | -1.6 | 2.79 | -0.2 |
| 11.0 | -1.3 | 29.71 | 14.7 | -1.3 | 2.66 | -0.4 |
| 11.5 | -2.3 | 23.82 | 13.8 | -1.6 | 2.69 | -0.3 |
| 12.0 | -4.1 | 11.29 | 10.5 | -1.6 | 2.62 | -0.4 |
| 12.5 | -5.6 | 5.17 | 7.1 | -2.2 | 2.61 | -0.4 |
| 13.0 | -4.2 | 7.54 | 8.8 | -1.8 | 2.52 | -0.5 |
| 13.5 | -1.8 | 21.38 | 13.3 | -1.1 | 2.68 | -0.4 |
| 14.0 | -1.1 | 13.18 | 11.2 | -0.9 | 2.80 | -0.2 |
| 14.5 | -1.7 | 5.46 | 7.4 | -0.8 | 2.60 | -0.5 |
| 15.0 | -0.3 | 5.71 | 7.6 | -0.6 | 2.55 | -0.5 |
| 15.5 | -1.8 | 4.62 | 6.7 | -1.2 | 2.59 | -0.5 |
| 16.0 | -0.5 | 4.11 | 6.1 | -1.1 | 2.78 | -0.2 |
| 16.5 | -1.5 | 1.54 | 1.9 | -0.9 | 2.62 | -0.4 |
| 17.0 | -2.6 | 1.90 | 2.8 | -1.2 | 2.66 | -0.4 |
| 17.5 | -1.8 | .67 | -1.7 | -1.6 | 2.71 | -0.3 |
| 18.0 | -0.6 | .71 | -1.5 | -0.8 | 2.72 | -0.3 |
| 18.5 | -0.7 | .75 | -1.2 | -0.8 | 2.66 | -0.4 |
| 19.0 | -0.6 | .38 | -4.1 | -0.8 | 2.66 | -0.4 |
| 19.5 | -0.9 | .33 | -4.8 | -0.7 | 2.38 | -0.7 |
| 20.0 | -0.7 | .22 | -6.4 | -1.2 | 2.61 | -0.4 |
| 20.5 | -0.8 | .12 | -8.9 | -0.8 | 2.53 | -0.5 |
| 21.0 | -0.4 | .23 | -6.3 | -0.7 | 2.39 | -0.7 |
| 21.5 | -0.5 | .13 | -8.6 | -0.2 | 2.36 | -0.7 |
| 22.0 | 0.0 | .13 | -8.6 | 0.0 | 2.31 | -0.8 |
| 22.5 | -1.0 | .73 | -1.4 | -0.2 | 2.29 | -0.8 |
| 23.0 | -2.3 | .18 | -7.4 | -0.7 | 2.14 | -1.0 |
| 23.5 | -2.6 | .30 | -5.2 | -0.8 | 2.14 | -1.0 |
| 24.0 | -3.9 | .20 | -6.8 | -1.0 | 2.16 | -1.0 |
| 24.5 | -4.0 | .06 | -11.9 | -1.9 | 2.14 | -1.0 |
| 25.0 | -4.2 | .00 | -12.9 | -2.5 | 2.13 | -1.0 |

TSC BELL 212 #31: FLYOVER, 61 KT, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -5.0 | .00 | -14.5 | -3.2 | 2.52 | -0.5 |
| 26.0 | -3.7 | .07 | -11.1 | -4.1 | 2.64 | -0.4 |
| 26.5 | -4.8 | .00 | -16.8 | -4.4 | 2.41 | -0.7 |
| 27.0 | -4.4 | .00 | -13.1 | -4.7 | 2.65 | -0.4 |
| 27.5 | -4.2 | .00 | -14.9 | -4.3 | 3.02 | 0.0 |
| 28.0 | -3.9 | .00 | -12.2 | -4.4 | 2.99 | 0.0 |
| 28.5 | -4.6 | .00 | -13.6 | -4.6 | 2.55 | -0.5 |
| 29.0 | -4.4 | .00 | -15.9 | -6.2 | 3.17 | 0.2 |
| 29.5 | -6.8 | .00 | -17.2 | -6.7 | 3.10 | 0.1 |
| 30.0 | -5.6 | .00 | -17.4 | -7.5 | 2.87 | 0.0 |
| 30.5 | -4.7 | .00 | -15.9 | -6.8 | 2.82 | -0.2 |
| 31.0 | -6.5 | .00 | -13.1 | -7.5 | 3.01 | 0.0 |
| 31.5 | -6.3 | .00 | -13.6 | -7.1 | 2.74 | -0.3 |
| 32.0 | -6.1 | .00 | -22.6 | -8.8 | 2.94 | 0.0 |
| 32.5 | -6.9 | .00 | -15.4 | -8.5 | 3.29 | 0.3 |
| 33.0 | -8.7 | .00 | -19.0 | -9.7 | 2.76 | -0.3 |
| 33.5 | -9.1 | .00 | -19.8 | -9.4 | 2.87 | 0.0 |
| 34.0 | -9.3 | .00 | -16.6 | -8.9 | 3.18 | 0.2 |
| 34.5 | -9.0 | .00 | -19.1 | -9.8 | 2.80 | -0.2 |
| 35.0 | -11.7 | .00 | -17.6 | -9.8 | 2.51 | -0.6 |
| 35.5 | -10.9 | .00 | -15.8 | -10.3 | 3.07 | 0.1 |
| 36.0 | -10.4 | .00 | -13.7 | -10.5 | 3.01 | 0.0 |
| 36.5 | -10.6 | .00 | -12.7 | -11.4 | 3.14 | 0.2 |
| 37.0 | -8.9 | .19 | -7.1 | -11.2 | 3.07 | 0.1 |
| 37.5 | -10.5 | .78 | -1.1 | -12.6 | 2.80 | -0.2 |
| 38.0 | -16.0 | .00 | -14.8 | -13.2 | 3.02 | 0.0 |
| 38.5 | -16.3 | .00 | -19.3 | -13.3 | 2.84 | -0.2 |
| 39.0 | -15.9 | .00 | -15.5 | -12.4 | 2.69 | -0.3 |
| 39.5 | -12.4 | .00 | -13.9 | -11.4 | 2.87 | 0.0 |

TSC BELL 212 #32: FLYOVER, 96 KT, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -10.1 | 9.62 | 9.8 | -1.7 | 5.86 | 3.3 |
| 1.0 | -9.4 | 8.72 | 9.4 | -0.9 | 5.83 | 3.2 |
| 1.5 | -8.9 | 7.98 | 9.0 | -0.5 | 4.93 | 2.2 |
| 2.0 | -9.9 | 5.99 | 7.8 | -0.6 | 4.36 | 1.6 |
| 2.5 | -10.6 | 4.20 | 6.2 | -0.7 | 3.95 | 1.1 |
| 3.0 | -10.3 | 4.21 | 6.2 | -0.8 | 3.79 | 0.9 |
| 3.5 | -9.6 | 2.18 | 3.4 | -1.0 | 3.45 | 0.5 |
| 4.0 | -7.3 | 1.69 | 2.3 | -0.5 | 3.20 | 0.2 |
| 4.5 | -4.5 | 1.89 | 2.8 | 0.0 | 3.13 | 0.2 |
| 5.0 | -4.1 | 1.43 | 1.6 | -0.3 | 2.98 | 0.0 |
| 5.5 | -4.5 | 2.75 | 4.4 | -0.7 | 3.03 | 0 0 |
| 6.0 | -3.0 | 1.41 | 1.5 | -0.5 | 3.02 | 0.0 |
| 6.5 | -3.2 | 1.29 | 1.1 | -0.9 | 2.88 | 0.0 |
| 7.0 | -3.7 | 1.11 | 0.5 | -1.2 | 2.90 | 0.0 |
| 7.5 | -1.7 | 1.32 | 1.2 | -0.8 | 3.27 | 0.3 |
| 8.0 | 0.0 | 1.55 | 1.9 | -0.5 | 3.73 | 0.8 |
| 8.5 | -1.8 | 1.01 | 0.1 | -1.7 | 3.39 | 0.5 |
| 9.0 | -2.1 | 1.03 | 0.1 | -2.3 | 3.83 | 1.0 |
| 9.5 | -2.8 | .81 | -0.9 | -2.3 | 3.24 | 0.3 |
| 10.0 | -5.2 | .09 | -10.3 | -3.0 | 2.73 | -0.3 |
| 10.5 | -6.0 | .10 | -9.9 | -2.8 | 2.74 | -0.3 |
| 11.0 | -7.0 | .00 | -13.0 | -2.8 | 2.48 | -0.6 |
| 11.5 | -8.2 | .00 | -18.4 | -3.9 | 2.37 | -0.7 |
| 12.0 | -9.0 | .00 | -17.8 | -4.4 | 2.51 | -0.6 |
| 12.5 | -9.7 | .00 | -15.0 | -5.5 | 2.43 | -0.6 |
| 13.0 | -9.8 | .00 | -18.2 | -6.4 | 2.71 | -0.3 |
| 13.5 | -9.5 | .00 | -18.7 | -6.9 | 2.84 | -0.2 |
| 14.0 | -9.0 | .00 | -17.1 | -7.9 | 2.74 | -0.3 |
| 14.5 | -10.0 | .00 | -19.1 | -9.0 | 2.63 | -0.4 |
| 15.0 | -10.0 | .00 | -18.2 | -9.1 | 2.51 | -0.5 |
| 15.5 | -11.2 | .00 | -18.6 | -9.5 | 2.64 | -0.4 |
| 16.0 | -11.2 | .00 | -18.5 | -10.4 | 2.53 | -0.5 |
| 16.5 | -11.8 | .00 | -16.6 | -11.0 | 2.60 | -0.5 |
| 17.0 | -14.1 | .00 | -17.9 | -11.3 | 2.79 | -0.2 |
| 17.5 | -15.9 | .00 | -16.4 | -11.5 | 2.56 | -0.5 |
| 18.0 | -16.0 | .00 | -21.9 | -11.8 | 2.56 | -0.5 |
| 18.5 | -14.3 | .00 | -21.3 | -13.0 | 2.60 | -0.4 |
| 19.0 | -13.4 | .00 | -18.4 | -13.2 | 2.92 | 0.0 |
| 19.5 | -16.7 | .00 | -12.7 | -13.8 | 2.51 | -0.6 |
| 20.0 | -19.5 | .00 | -22.8 | -15.8 | 2.97 | 0.0 |
| 20.5 | -18.2 | .00 | -15.4 | -15.3 | 2.49 | -0.6 |
| 21.0 | -17.1 | .00 | -18.9 | -15.1 | 2.93 | 0.0 |

TSC BELL 212 #36: FLYOVER, 105 KT, 450 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -9.2 | 9.19 | 9.6 | -3.1 | 9.21 | 7.1 |
| 1.0 | -7.8 | 19.57 | 12.9 | -2.3 | 9.92 | 7.9 |
| 1.5 | -5.9 | 17.03 | 12.3 | -1.4 | 9.88 | 7.9 |
| 2.0 | -6.4 | 17.81 | 12.5 | -2.4 | 11.33 | 9.5 |
| 2.5 | -8.0 | 13.60 | 11.3 | -3.4 | 9.54 | 7.5 |
| 3.0 | -10.1 | 13.20 | 11.2 | -4.0 | 7.72 | 5.4 |
| 3.5 | -9.5 | 12.12 | 10.8 | -3.6 | 6.83 | 4.4 |
| 4.0 | -9.5 | 20.75 | 13.2 | -3.6 | 7.75 | 5.4 |
| 4.5 | -8.5 | 25.97 | 14.1 | -3.3 | 9.46 | 7.4 |
| 5.0 | -9.3 | 25.25 | 14.0 | -2.6 | 7.19 | 4.8 |
| 5.5 | -9.7 | 15.55 | 11.9 | -2.9 | 6.22 | 3.7 |
| 6.0 | -9.4 | 12.15 | 10.8 | -2.7 | 7.47 | 5.1 |
| 6.5 | -8.2 | 8.50 | 9.3 | -1.8 | 8.55 | 6.3 |
| 7.0 | -7.4 | 9.64 | 9.8 | -1.1 | 7.44 | 5.1 |
| 7.5 | -7.7 | 13.78 | 11.4 | -1.4 | 7.36 | 5.0 |
| 8.0 | -8.5 | 17.31 | 12.4 | -1.6 | 6.53 | 4.0 |
| 8.5 | -8.7 | 11.06 | 10.4 | -1.8 | 5.95 | 3.4 |
| 9.0 | -7.7 | 7.00 | 8.5 | -1.2 | 5.26 | 2.6 |
| 9.5 | -8.3 | 7.12 | 8.5 | -1.0 | 5.60 | 3.0 |
| 10.0 | -8.6 | 6.70 | 8.3 | -1.2 | 5.68 | 3.1 |
| 10.5 | -7.5 | 9.48 | 9.8 | -0.7 | 4.84 | 2.1 |
| 11.0 | -7.8 | 1.46 | 1.6 | -0.8 | 4.00 | 1.1 |
| 11.5 | -7.7 | 3.02 | 4.8 | -1.0 | 3.86 | 1.0 |
| 12.0 | -6.5 | 1.56 | 1.9 | -0.7 | 3.63 | 0.7 |
| 12.5 | -6.2 | 1.15 | 0.6 | -0.6 | 3.44 | 0.5 |
| 13.0 | -6.6 | .17 | -7.5 | -0.8 | 3.03 | 0.0 |
| 13.5 | -5.6 | .15 | -8.1 | -1.1 | 2.78 | -0.2 |
| 14.0 | -3.5 | .11 | -9.5 | -1.0 | 2.82 | -0.2 |
| 14.5 | -2.7 | .11 | -9.2 | -0.8 | 2.93 | 0.0 |
| 15.0 | 0.0 | .26 | -5.8 | 0.0 | 3.22 | 0.3 |
| 15.5 | -1.4 | .07 | -11.1 | -1.1 | 3.14 | 0.2 |
| 16.0 | -1.9 | .06 | -11.9 | -2.3 | 2.93 | 0.0 |
| 16.5 | -3.3 | .00 | -14.2 | -4.0 | 3.23 | 0.3 |
| 17.0 | -4.2 | .06 | -11.9 | -4.3 | 2.89 | 0.0 |
| 17.5 | -5.6 | .00 | -17.2 | -5.1 | 2.50 | -0.6 |
| 18.0 | -6.7 | .00 | -18.6 | -5.8 | 2.73 | -0.3 |
| 18.5 | -8.2 | .00 | -21.0 | -7.5 | 2.67 | -0.4 |
| 19.0 | -8.5 | .00 | -20.3 | -8.9 | 2.91 | 0.0 |
| 19.5 | -8.9 | .00 | -24.5 | -9.6 | 3.14 | 0.2 |
| 20.0 | -8.5 | .00 | -15.2 | -10.0 | 2.93 | 0.0 |
| 20.5 | -9.7 | .00 | -17.4 | -9.2 | 2.47 | -0.6 |
| 21.0 | -11.2 | .00 | -18.9 | -9.7 | 2.66 | -0.4 |
| 21.5 | -10.3 | .00 | -19.9 | -9.9 | 2.42 | -0.7 |
| 22.0 | -10.2 | .21 | -6.6 | -11.1 | 2.61 | -0.4 |
| 22.5 | -13.3 | .00 | -13.5 | -11.5 | 2.53 | -0.5 |
| 23.0 | -14.3 | .13 | -8.7 | -13.8 | 2.97 | 0.0 |
| 23.5 | -15.5 | .00 | -12.5 | -15.9 | 2.82 | -0.2 |
| 24.0 | -12.9 | .00 | -14.8 | -15.4 | 3.15 | 0.2 |
| 24.5 | -12.6 | .00 | -15.4 | -14.5 | 2.79 | -0.2 |
| 25.0 | -14.3 | .13 | -8.6 | -16.0 | 2.84 | -0.2 |

TSC BELL 212 #36: FLYOVER, 105 KT, 450 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -18.4 | .00 | -12.3 | -17.8 | 2.81 | -0.2 |
| 26.0 | -18.9 | .00 | -16.9 | -17.3 | 2.84 | -0.2 |
| 26.5 | -18.1 | .00 | -15.6 | -17.8 | 2.72 | -0.3 |

TSC BELL 212 #37: FLYOVER, 115 KT, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -14.6 | 6.98 | 8.4 | -8.2 | 4.96 | 2.2 |
| 1.0 | -11.6 | 14.00 | 11.5 | -6.1 | 6.21 | 3.7 |
| 1.5 | -8.8 | 12.77 | 11.1 | -4.5 | 7.67 | 5.3 |
| 2.0 | -8.3 | 20.39 | 13.1 | -4.1 | 8.72 | 6.5 |
| 2.5 | -6.5 | 16.64 | 12.2 | -2.3 | 7.56 | 5.2 |
| 3.0 | -5.0 | 26.60 | 14.2 | -1.6 | 8.93 | 6.8 |
| 3.5 | -3.9 | 22.29 | 13.5 | -0.4 | 10.23 | 8.3 |
| 4.0 | -2.4 | 14.46 | 11.6 | -0.4 | 10.48 | 8.6 |
| 4.5 | -5.3 | 14.41 | 11.6 | -0.8 | 9.02 | 6.9 |
| 5.0 | -5.2 | 13.51 | 11.3 | -0.9 | 7.68 | 5.4 |
| 5.5 | -5.8 | 20.59 | 13.1 | -1.8 | 9.54 | 7.5 |
| 6.0 | -5.1 | 21.90 | 13.4 | -1.4 | 11.11 | 9.3 |
| 6.5 | -4.0 | 15.62 | 11.9 | -1.4 | 11.46 | 9.7 |
| 7.0 | -4.5 | 23.36 | 13.7 | -1.1 | 10.97 | 9.1 |
| 7.5 | -4.0 | 14.31 | 11.6 | -0.2 | 8.84 | 6.7 |
| 8.0 | -5.4 | 13.72 | 11.4 | -0.4 | 7.50 | 5.1 |
| 8.5 | -5.4 | 11.73 | 10.7 | 0.0 | 6.00 | 3.4 |
| 9.0 | -4.5 | 8.88 | 9.5 | 0.0 | 4.73 | 2.0 |
| 9.5 | -5.6 | 7.74 | 8.9 | -0.5 | 4.50 | 1.7 |
| 10.0 | -6.0 | 5.91 | 7.7 | -0.3 | 3.77 | 0.9 |
| 10.5 | -4.7 | 15.91 | 12.0 | -0.6 | 3.46 | 0.5 |
| 11.0 | -3.7 | 7.65 | 8.8 | -0.9 | 3.14 | 0.2 |
| 11.5 | -1.5 | 11.30 | 10.5 | -0.5 | 2.97 | 0.0 |
| 12.0 | -3.6 | .46 | -3.3 | -1.0 | 2.88 | 0.0 |
| 12.5 | -1.4 | 1.80 | 2.6 | -0.9 | 2.93 | 0.0 |
| 13.0 | -2.1 | .72 | -1.4 | -1.2 | 3.09 | 0.1 |
| 13.5 | -1.7 | .54 | -2.7 | -1.6 | 3.35 | 0.4 |
| 14.0 | -0.9 | .26 | -5.7 | -1.0 | 3.45 | 0.5 |
| 14.5 | -0.4 | 2.66 | 4.3 | -0.8 | 4.43 | 1.6 |
| 15.0 | 0.0 | 2.24 | 3.5 | -1.7 | 5.72 | 3.1 |
| 15.5 | -2.3 | .34 | -4.6 | -3.6 | 3.71 | 0.8 |
| 16.0 | -5.2 | .00 | -16.6 | -5.0 | 2.59 | -0.5 |
| 16.5 | -6.8 | .00 | -14.5 | -5.8 | 2.60 | -0.5 |
| 17.0 | -7.8 | .00 | -15.9 | -7.6 | 2.63 | -0.4 |
| 17.5 | -9.0 | .00 | -20.6 | -7.9 | 2.64 | -0.4 |
| 18.0 | -9.0 | .00 | -17.1 | -7.4 | 2.61 | -0.4 |
| 18.5 | -9.9 | .06 | -11.9 | -9.1 | 2.98 | 0.0 |
| 19.0 | -10.3 | .00 | -16.9 | -9.9 | 2.60 | -0.5 |
| 19.5 | -10.2 | .00 | -14.1 | -10.3 | 2.94 | 0.0 |
| 20.0 | -11.3 | .00 | -15.1 | -11.7 | 2.83 | -0.2 |
| 20.5 | -13.0 | .12 | -8.9 | -12.4 | 2.70 | -0.3 |
| 21.0 | -13.2 | .00 | -14.4 | -12.7 | 2.58 | -0.5 |
| 21.5 | -14.4 | .15 | -8.2 | -13.6 | 2.59 | -0.5 |
| 22.0 | -15.9 | .43 | -3.6 | -13.5 | 2.92 | 0.0 |
| 22.5 | -15.6 | .08 | -10.5 | -15.2 | 2.60 | -0.4 |
| 23.0 | -17.3 | .00 | -17.1 | -15.5 | 2.54 | -0.5 |

TSC BELL 212 #43: 9 DEG APRCH, 60 KT, 410 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -11.5 | 4.91 | 6.9 | -6.0 | 3.76 | 0.9 |
| 1.0 | -11.3 | 5.44 | 7.4 | -6.2 | 3.60 | 0.7 |
| 1.5 | -12.0 | 4.11 | 6.1 | -6.5 | 3.54 | 0.6 |
| 2.0 | -11.5 | 10.42 | 10.2 | -6.3 | 3.36 | 0.4 |
| 2.5 | -9.6 | 12.23 | 10.9 | -5.8 | 3.55 | 0.6 |
| 3.0 | -8.0 | 16.14 | 12.1 | -5.5 | 3.94 | 1.1 |
| 3.5 | -6.9 | 21.90 | 13.4 | -5.4 | 3.73 | 0.8 |
| 4.0 | -6.8 | 32.13 | 15.1 | -5.5 | 3.54 | 0.6 |
| 4.5 | -6.8 | 14.17 | 11.5 | -5.0 | 3.39 | 0.5 |
| 5.0 | -6.2 | 15.51 | 11.9 | -4.8 | 3.51 | 0.6 |
| 5.5 | -7.2 | 31.16 | 14.9 | -5.2 | 3.27 | 0.3 |
| 6.0 | -8.0 | 29.44 | 14.7 | -5.1 | 3.07 | 0.1 |
| 6.5 | -8.3 | 11.39 | 10.6 | -5.0 | 3.10 | 0.1 |
| 7.0 | -6.8 | 16.43 | 12.2 | -4.7 | 3.42 | 0.5 |
| 7.5 | -4.4 | 27.96 | 14.5 | -4.0 | 3.52 | 0.6 |
| 8.0 | -4.6 | 14.56 | 11.6 | -3.9 | 3.11 | 0.1 |
| 8.5 | -5.2 | 13.68 | 11.4 | -3.6 | 2.96 | 0.0 |
| 9.0 | -6.0 | 17.57 | 12.4 | -3.5 | 2.90 | 0.0 |
| 9.5 | -6.5 | 11.89 | 10.8 | -4.4 | 2.91 | 0.0 |
| 10.0 | -5.7 | 12.97 | 11.1 | -4.2 | 2.76 | -0.3 |
| 10.5 | -5.7 | 5.45 | 7.4 | -3.3 | 2.68 | -0.4 |
| 11.0 | -4.3 | 5.23 | 7.2 | -2.7 | 2.85 | -0.2 |
| 11.5 | -3.3 | 15.55 | 11.9 | -2.9 | 3.31 | 0.4 |
| 12.0 | -3.4 | 14.72 | 11.7 | -2.9 | 3.07 | 0.1 |
| 12.5 | -3.3 | 13.51 | 11.3 | -2.2 | 2.88 | 0.0 |
| 13.0 | -0.8 | 9.97 | 10.0 | -1.8 | 3.39 | 0.5 |
| 13.5 | -2.6 | 6.95 | 8.4 | -2.2 | 3.06 | 0.1 |
| 14.0 | -1.5 | 6.79 | 8.3 | -1.8 | 3.24 | 0.3 |
| 14.5 | -2.1 | 4.84 | 6.9 | -1.9 | 3.02 | 0.0 |
| 15.0 | -1.5 | 5.22 | 7.2 | -1.7 | 3.69 | 0.8 |
| 15.5 | -3.1 | 9.85 | 9.9 | -2.6 | 3.41 | 0.5 |
| 16.0 | -1.4 | 11.89 | 10.8 | -1.5 | 3.10 | 0.1 |
| 16.5 | -0.3 | 7.48 | 8.7 | -1.0 | 3.78 | 0.9 |
| 17.0 | -0.6 | 3.85 | 5.9 | -0.4 | 3.49 | 0.6 |
| 17.5 | -3.0 | 1.63 | 2.1 | -1.1 | 2.98 | 0.0 |
| 18.0 | -1.3 | 3.05 | 4.9 | -1.0 | 3.59 | 0.7 |
| 18.5 | 0.0 | 3.00 | 4.8 | 0.0 | 3.85 | 1.0 |
| 19.0 | -1.3 | .92 | -0.3 | -0.5 | 3.17 | 0.2 |
| 19.5 | -2.9 | .37 | -4.2 | -1.3 | 2.42 | -0.7 |
| 20.0 | -2.9 | .43 | -3.6 | -1.3 | 2.40 | -0.7 |
| 20.5 | -3.7 | .23 | -6.3 | -0.9 | 2.15 | -1.0 |
| 21.0 | -4.2 | .10 | -9.9 | -1.2 | 2.05 | -1.1 |
| 21.5 | -3.7 | .00 | -13.4 | -0.4 | 2.13 | -1.0 |
| 22.0 | -3.3 | .00 | -13.3 | 0.0 | 2.15 | -1.0 |
| 22.5 | -4.3 | .00 | -14.0 | -0.2 | 2.17 | -0.9 |
| 23.0 | -5.2 | .00 | -15.4 | -0.6 | 2.14 | -1.0 |
| 23.5 | -4.7 | .00 | -15.4 | -1.4 | 2.12 | -1.0 |
| 24.0 | -5.8 | .00 | -16.9 | -2.1 | 2.26 | -0.8 |
| 24.5 | -5.6 | .00 | -15.9 | -2.0 | 2.49 | -0.6 |
| 25.0 | -7.0 | .00 | -18.5 | -3.2 | 2.61 | -0.4 |

TSC BELL 212 #43: 9 DEG APRCH, 60 KT, 410 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -6.1 | .19 | -7.2 | -3.6 | 2.81 | -0.2 |
| 26.0 | -5.1 | .43 | -3.6 | -3.4 | 3.06 | 0.1 |
| 26.5 | -6.1 | .81 | -0.9 | -3.9 | 3.33 | 0.4 |
| 27.0 | -5.3 | 1.05 | 0.2 | -4.0 | 3.51 | 0.6 |
| 27.5 | -6.0 | .66 | -1.8 | -5.2 | 3.43 | 0.5 |
| 28.0 | -8.4 | .06 | -11.7 | -6.3 | 3.00 | 0.0 |
| 28.5 | -8.1 | .60 | -2.2 | -6.6 | 3.37 | 0.4 |
| 29.0 | -8.5 | 3.72 | 5.7 | -6.7 | 3.16 | 0.2 |
| 29.5 | -7.7 | 2.72 | 4.4 | -6.8 | 3.09 | 0.1 |
| 30.0 | -9.3 | 2.66 | 4.3 | -8.1 | 2.98 | 0.0 |
| 30.5 | -8.9 | 9.69 | 9.9 | -8.2 | 3.34 | 0.4 |
| 31.0 | -8.6 | 1.68 | 2.3 | -8.6 | 3.32 | 0.4 |
| 31.5 | -9.7 | 5.52 | 7.4 | -9.1 | 3.06 | 0.1 |
| 32.0 | -13.1 | 3.01 | 4.8 | -10.6 | 2.65 | -0.4 |
| 32.5 | -13.8 | 5.65 | 7.5 | -10.4 | 3.06 | 0.1 |
| 33.0 | -14.3 | 1.13 | 0.6 | -11.4 | 2.99 | 0.0 |
| 33.5 | -13.2 | .73 | -1.3 | -11.9 | 2.81 | -0.2 |

TSC 300C #34: FLYOVER, 75 MPH, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -1.5 | .00 | -12.3 | 0.0 | 3.95 | 1.1 |
| 1.0 | -13.6 | .48 | -3.1 | -11.9 | 4.32 | 1.5 |
| 1.5 | -14.0 | .00 | -24.7 | -11.2 | 4.08 | 1.2 |
| 2.0 | -14.2 | .00 | -15.1 | -8.1 | 3.24 | 0.3 |
| 2.5 | -11.0 | .00 | -18.7 | -9.0 | 3.06 | 0.1 |
| 3.0 | -13.1 | .00 | -21.7 | -10.0 | 3.57 | 0.7 |
| 3.5 | -12.4 | .00 | -22.0 | -14.1 | 3.20 | 0.2 |
| 4.0 | -11.8 | .00 | -18.4 | -10.3 | 2.70 | -0.3 |
| 4.5 | -10.5 | .00 | -16.2 | -11.7 | 3.10 | 0.1 |
| 5.0 | -11.1 | .00 | -20.2 | -10.6 | 2.99 | 0.0 |
| 5.5 | -13.0 | .00 | -22.6 | -14.7 | 2.55 | -0.5 |
| 6.0 | -13.0 | .00 | -15.1 | -14.7 | 2.80 | -0.2 |
| 6.5 | -15.4 | .00 | -19.7 | -14.7 | 2.95 | 0.0 |
| 7.0 | -15.5 | .00 | -24.7 | -12.8 | 3.22 | 0.3 |
| 7.5 | -16.1 | .00 | -25.4 | -15.3 | 2.65 | -0.4 |
| 8.0 | -14.3 | .00 | -19.4 | -14.8 | 3.11 | 0.1 |
| 8.5 | -12.2 | .00 | -18.5 | -14.6 | 2.76 | -0.3 |
| 9.0 | -11.7 | .00 | -19.5 | -13.6 | 2.95 | 0.0 |
| 9.5 | -10.1 | .00 | -13.2 | -13.0 | 2.97 | 0.0 |
| 10.0 | -11.0 | .00 | -19.0 | -8.7 | 3.02 | 0.0 |
| 10.5 | -11.8 | .00 | -21.9 | -13.2 | 3.23 | 0.3 |
| 11.0 | -11.0 | .00 | -24.2 | -12.8 | 2.26 | -0.8 |
| 11.5 | -11.7 | .00 | -22.2 | -14.4 | 2.81 | -0.2 |
| 12.0 | -13.3 | .00 | -21.8 | -17.3 | 3.12 | 0.1 |
| 12.5 | -10.1 | .00 | -23.9 | -16.5 | 2.68 | -0.4 |
| 13.0 | -8.1 | .00 | -19.3 | -15.3 | 2.50 | -0.6 |
| 13.5 | -8.5 | .00 | -21.1 | -14.8 | 2.72 | -0.3 |
| 14.0 | -7.4 | .00 | -16.0 | -15.1 | 2.91 | 0.0 |
| 14.5 | -7.3 | .00 | -22.7 | -14.7 | 2.78 | -0.3 |
| 15.0 | -7.6 | .00 | -23.3 | -14.1 | 2.74 | -0.3 |
| 15.5 | -5.4 | .00 | -19.4 | -12.4 | 2.91 | 0.0 |
| 16.0 | -3.1 | .00 | -22.5 | -11.6 | 2.94 | 0.0 |
| 16.5 | -4.3 | .00 | -22.5 | -12.1 | 2.73 | -0.3 |
| 17.0 | -4.3 | .00 | -19.3 | -11.2 | 2.72 | -0.3 |
| 17.5 | -5.0 | .00 | -19.5 | -11.6 | 2.72 | -0.3 |
| 18.0 | -0.7 | .00 | -13.6 | -8.8 | 2.65 | -0.4 |
| 18.5 | -2.2 | .00 | -13.8 | -8.7 | 2.69 | -0.3 |
| 19.0 | -2.3 | .00 | -21.6 | -9.2 | 2.70 | -0.3 |
| 19.5 | -2.4 | .00 | -16.4 | -8.8 | 2.69 | -0.3 |
| 20.0 | 0.0 | .00 | -20.8 | -7.8 | 2.84 | -0.2 |
| 20.5 | -1.8 | .00 | -14.7 | -8.8 | 2.79 | -0.2 |
| 21.0 | -3.2 | .00 | -22.7 | -10.0 | 2.85 | -0.2 |
| 21.5 | -1.5 | .00 | -18.0 | -10.8 | 2.75 | -0.3 |
| 22.0 | -3.5 | .00 | -24.0 | -10.6 | 2.75 | -0.3 |
| 22.5 | -4.2 | .00 | -21.3 | -12.3 | 2.78 | -0.2 |
| 23.0 | -3.9 | .00 | -16.1 | -12.5 | 2.80 | -0.2 |
| 23.5 | -5.1 | .00 | -14.5 | -13.1 | 3.14 | 0.2 |
| 24.0 | -2.4 | .00 | -12.2 | -10.0 | 2.73 | -0.3 |
| 24.5 | -2.5 | .00 | -13.0 | -12.6 | 3.08 | 0.1 |
| 25.0 | -5.2 | .00 | -20.0 | -12.4 | 3.08 | 0.1 |

TSC 3000 #34: FLYOVER, 75 MPH, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -4.4 | .00 | -20.6 | -13.4 | 2.77 | -0.3 |
| 26.0 | -3.6 | .00 | -18.1 | -13.8 | 2.90 | 0.0 |
| 26.5 | -5.2 | .00 | -17.4 | -14.7 | 2.80 | -0.2 |
| 27.0 | -7.1 | .00 | -16.4 | -13.8 | 2.83 | -0.2 |
| 27.5 | -7.6 | .00 | -16.4 | -14.1 | 2.99 | 0.0 |
| 28.0 | -7.7 | .00 | -14.5 | -14.7 | 2.71 | -0.3 |
| 28.5 | -7.6 | .00 | -16.5 | -16.0 | 2.72 | -0.3 |
| 29.0 | -3.9 | .48 | -3.2 | -15.7 | 2.99 | 0.0 |
| 29.5 | -9.3 | .00 | -21.4 | -17.0 | 2.68 | -0.4 |
| 30.0 | -6.8 | .00 | -12.5 | -16.4 | 2.63 | -0.4 |
| 30.5 | -11.2 | .00 | -22.5 | -16.0 | 2.46 | -0.6 |
| 31.0 | -10.8 | .00 | -22.1 | -16.5 | 2.78 | -0.2 |
| 31.5 | -12.7 | .00 | -21.1 | -16.8 | 2.52 | -0.5 |
| 32.0 | -10.9 | .00 | -22.2 | -16.4 | 2.79 | -0.2 |

TSC 300C #44: 6 DEG. APRCH., 60 MPH, 400 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -11.1 | 1.73 | 2.4 | -6.0 | 3.42 | 0.5 |
| 1.0 | -11.4 | .53 | -2.7 | -6.0 | 2.82 | -0.2 |
| 1.5 | -10.8 | 1.85 | 2.7 | -4.9 | 2.72 | -0.3 |
| 2.0 | -13.5 | .12 | -9.1 | -4.8 | 3.05 | 0.1 |
| 2.5 | -14.5 | .18 | -7.3 | -6.8 | 2.72 | -0.3 |
| 3.0 | -13.6 | .00 | -18.4 | -8.0 | 3.21 | 0.2 |
| 3.5 | -11.9 | .00 | -24.8 | -8.7 | 2.89 | 0.0 |
| 4.0 | -13.3 | .00 | -23.3 | -8.6 | 3.03 | 0.0 |
| 4.5 | -13.5 | .00 | -17.9 | -10.2 | 2.66 | -0.4 |
| 5.0 | -11.9 | .06 | -12.0 | -8.7 | 3.22 | 0.3 |
| 5.5 | -8.0 | .00 | -12.4 | -6.0 | 3.40 | 0.5 |
| 6.0 | -9.1 | .06 | -11.6 | -6.7 | 3.38 | 0.4 |
| 6.5 | -9.8 | .00 | -20.0 | -7.9 | 2.92 | 0.0 |
| 7.0 | -10.7 | .00 | -23.5 | -4.9 | 4.18 | 1.4 |
| 7.5 | -8.6 | .00 | -13.0 | -4.2 | 2.84 | -0.2 |
| 8.0 | -7.6 | .00 | -14.0 | -7.0 | 2.63 | -0.4 |
| 8.5 | -2.1 | 1.87 | 2.7 | -3.4 | 6.19 | 3.7 |
| 9.0 | -3.6 | 1.42 | 1.5 | -5.8 | 3.46 | 0.5 |
| 9.5 | -4.7 | .00 | -22.6 | -6.5 | 2.84 | -0.2 |
| 10.0 | -4.6 | .00 | -26.3 | -5.4 | 2.51 | -0.6 |
| 10.5 | -7.1 | .00 | -26.4 | -6.6 | 2.85 | -0.2 |
| 11.0 | -5.8 | .00 | -22.8 | -6.3 | 2.80 | -0.2 |
| 11.5 | -5.6 | .00 | -23.2 | -6.3 | 2.61 | -0.4 |
| 12.0 | -5.7 | .00 | -19.4 | -6.5 | 2.89 | 0.0 |
| 12.5 | -3.8 | .00 | -22.1 | -2.9 | 2.86 | -0.2 |
| 13.0 | -2.7 | .00 | -19.6 | -2.4 | 2.80 | -0.2 |
| 13.5 | 0.0 | 1.68 | 2.3 | 0.0 | 4.72 | 2.0 |
| 14.0 | -1.6 | .12 | -8.9 | -1.6 | 2.98 | 0.0 |
| 14.5 | -2.9 | .12 | -9.2 | -3.0 | 2.96 | 0.0 |
| 15.0 | -5.0 | .07 | -11.4 | -4.4 | 2.41 | -0.7 |
| 15.5 | -5.3 | .00 | -15.4 | -4.5 | 2.37 | -0.7 |
| 16.0 | -4.9 | .31 | -5.0 | -4.5 | 2.79 | -0.2 |
| 16.5 | -5.8 | .06 | -11.6 | -5.3 | 2.61 | -0.4 |
| 17.0 | -4.2 | .22 | -6.4 | -5.1 | 3.33 | 0.4 |
| 17.5 | -8.1 | 1.84 | 2.7 | -7.2 | 3.54 | 0.6 |
| 18.0 | -9.3 | .00 | -12.4 | -7.8 | 2.60 | -0.5 |
| 18.5 | -10.7 | .00 | -15.6 | -6.9 | 2.56 | -0.5 |
| 19.0 | -9.9 | .00 | -16.4 | -6.4 | 3.14 | 0.2 |
| 19.5 | -9.2 | .00 | -21.1 | -4.9 | 3.13 | 0.2 |
| 20.0 | -10.5 | .00 | -20.5 | -6.5 | 2.86 | -0.2 |
| 20.5 | -12.6 | .00 | -22.6 | -6.0 | 3.00 | 0.0 |
| 21.0 | -13.4 | 1.46 | 1.7 | -8.0 | 2.41 | -0.7 |
| 21.5 | -16.1 | .00 | -24.2 | -9.5 | 2.76 | -0.3 |
| 22.0 | -13.0 | .00 | -16.3 | -4.2 | 3.06 | 0.1 |
| 22.5 | -15.1 | .00 | -14.4 | -9.0 | 2.61 | -0.4 |
| 23.0 | -16.1 | .00 | -19.8 | -7.2 | 2.51 | -0.6 |
| 23.5 | -13.9 | .00 | -23.1 | -5.3 | 2.81 | -0.2 |
| 24.0 | -15.1 | .00 | -19.1 | -9.6 | 2.65 | -0.4 |
| 24.5 | -14.3 | .00 | -15.5 | -8.3 | 2.69 | -0.3 |
| 25.0 | -12.9 | .00 | -23.3 | -13.4 | 2.88 | 0.0 |

TSC 300C #44. 6 DEG. APRCH., 60 MPH, 400 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -15.9 | .00 | -20.7 | -10.2 | 2.42 | -0.7 |
| 26.0 | -16.6 | .00 | -23.0 | -9.5 | 3.14 | 0.2 |
| 26.5 | -15.2 | .07 | -11.4 | -11.7 | 3.00 | 0.0 |
| 27.0 | -13.8 | .24 | -6.1 | -11.4 | 3.12 | 0.1 |
| 27.5 | -16.0 | .09 | -10.4 | -12.1 | 3.03 | 0.0 |
| 28.0 | -17.7 | .00 | -23.0 | -12.0 | 2.80 | -0.2 |
| 28.5 | -16.5 | .00 | -22.5 | -11.3 | 2.84 | -0.2 |

TSC 206L #46: 6 DEG. APRCH, 70 MPH, 400 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -18.9 | .00 | -20.8 | -11.1 | 3.80 | 0.9 |
| 1.0 | -16.9 | 1.53 | 1.9 | -12.5 | 3.18 | 0.2 |
| 1.5 | -18.8 | .00 | -13.4 | -11.9 | 2.54 | -0.5 |
| 2.0 | -19.0 | .00 | -16.7 | -11.5 | 2.67 | -0.4 |
| 2.5 | -20.6 | .00 | -19.9 | -11.0 | 4.23 | 1.4 |
| 3.0 | -20.2 | .00 | -21.3 | -11.3 | 3.05 | 0.1 |
| 3.5 | -19.6 | .07 | -11.2 | -10.8 | 2.93 | 0.0 |
| 4.0 | -14.3 | .00 | -17.0 | -9.4 | 2.71 | -0.3 |
| 4.5 | -16.4 | .00 | -16.3 | -10.1 | 2.85 | -0.2 |
| 5.0 | -19.9 | .00 | -23.2 | -8.3 | 3.02 | 0.0 |
| 5.5 | -18.5 | .00 | -17.3 | -10.4 | 3.23 | 0.3 |
| 6.0 | -15.5 | .00 | -22.9 | -9.7 | 2.93 | 0.0 |
| 6.5 | -17.7 | .00 | -15.4 | -9.9 | 2.88 | 0.0 |
| 7.0 | -19.2 | .00 | -18.8 | -9.8 | 2.63 | -0.4 |
| 7.5 | -18.5 | .00 | -19.9 | -8.5 | 2.68 | -0.4 |
| 8.0 | -17.5 | .00 | -19.4 | -8.1 | 2.79 | -0.2 |
| 8.5 | -15.2 | .00 | -16.3 | -2.7 | 3.23 | 0.3 |
| 9.0 | -12.6 | .00 | -15.3 | -4.5 | 2.83 | -0.2 |
| 9.5 | -13.5 | .00 | -15.2 | -3.7 | 4.17 | 1.3 |
| 10.0 | -13.1 | .16 | -8.0 | -5.1 | 2.61 | -0.4 |
| 10.5 | -12.6 | .70 | -1.5 | -4.9 | 3.62 | 0.7 |
| 11.0 | -13.4 | .11 | -9.5 | -3.8 | 2.79 | -0.2 |
| 11.5 | -13.5 | .15 | -8.0 | -4.8 | 2.88 | 0.0 |
| 12.0 | -12.1 | .12 | -8.9 | -5.3 | 4.22 | 1.4 |
| 12.5 | -7.5 | 14.82 | 11.7 | -4.5 | 3.72 | 0.8 |
| 13.0 | -4.9 | 19.71 | 12.9 | -1.6 | 4.94 | 2.2 |
| 13.5 | -1.0 | 24.51 | 13.9 | -1.6 | 11.48 | 9.7 |
| 14.0 | -4.8 | 7.42 | 8.7 | -2.6 | 5.89 | 3.3 |
| 14.5 | -0.9 | 21.76 | 13.4 | -0.5 | 9.37 | 7.3 |
| 15.0 | -2.0 | 16.36 | 12.1 | -0.6 | 4.49 | 1.7 |
| 15.5 | -0.8 | 24.14 | 13.8 | -0.8 | 6.19 | 3.7 |
| 16.0 | -2.3 | 7.44 | 8.7 | -1.4 | 3.65 | 0.8 |
| 16.5 | 0.0 | 30.70 | 14.9 | -0.7 | 14.88 | 13.6 |
| 17.0 | -5.5 | 3.76 | 5.8 | -2.1 | 3.53 | 0.6 |
| 17.5 | -6.6 | 4.92 | 6.9 | -3.4 | 2.86 | 0.0 |
| 18.0 | -7.5 | 1.35 | 1.3 | -2.7 | 3.18 | 0.2 |
| 18.5 | -8.5 | .00 | -16.9 | -4.3 | 2.82 | -0.2 |
| 19.0 | -7.0 | .26 | -5.8 | -3.0 | 2.74 | -0.3 |
| 19.5 | -4.4 | .12 | -9.2 | -1.9 | 2.82 | -0.2 |
| 20.0 | -4.8 | .10 | -9.6 | -2.7 | 2.81 | -0.2 |
| 20.5 | -4.7 | .08 | -10.9 | -2.4 | 2.89 | 0.0 |
| 21.0 | -2.0 | .00 | -13.2 | -1.6 | 2.93 | 0.0 |
| 21.5 | -2.4 | .00 | -15.2 | -1.1 | 2.91 | 0.0 |
| 22.0 | -1.4 | 7.32 | 8.6 | -1.0 | 3.85 | 1.0 |
| 22.5 | 0.0 | .61 | -2.1 | 0.0 | 4.12 | 1.3 |
| 23.0 | -1.2 | .00 | -12.5 | 0.0 | 2.62 | -0.4 |
| 23.5 | -2.2 | .10 | -9.7 | -1.0 | 2.86 | -0.2 |
| 24.0 | -1.8 | .17 | -7.5 | -1.3 | 2.80 | -0.2 |
| 24.5 | -2.5 | .14 | -8.3 | -2.0 | 2.91 | 0.0 |
| 25.0 | -2.5 | .12 | -8.9 | -1.9 | 2.85 | -0.2 |

TSC 206L #46: 6 DEG. APRCH, 70 MPH, 400 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -2.9 | .06 | -11.8 | -2.1 | 2.63 | -0.4 |
| 26.0 | -4.5 | .45 | -3.4 | -3.3 | 2.62 | -0.4 |
| 26.5 | -4.6 | .19 | -7.2 | -2.3 | 3.21 | 0.2 |
| 27.0 | -4.8 | .09 | -10.0 | -1.2 | 2.77 | -0.3 |
| 27.5 | -5.1 | .00 | -12.3 | -1.8 | 2.98 | 0.0 |
| 28.0 | -4.9 | .06 | -11.7 | -1.9 | 2.92 | 0.0 |
| 28.5 | -5.7 | .00 | -15.6 | -3.1 | 3.06 | 0.1 |
| 29.0 | -6.9 | .07 | -11.3 | -4.0 | 2.79 | -0.2 |
| 29.5 | -7.3 | .00 | -13.4 | -4.4 | 2.83 | -0.2 |
| 30.0 | -5.0 | .55 | -2.6 | -3.0 | 3.08 | 0.1 |
| 30.5 | -5.1 | 1.45 | 1.6 | -3.3 | 3.67 | 0.8 |
| 31.0 | -5.9 | 4.31 | 6.3 | -4.4 | 4.07 | 1.2 |
| 31.5 | -6.4 | .30 | -5.1 | -5.2 | 3.54 | 0.6 |
| 32.0 | -7.4 | .17 | -7.5 | -6.4 | 3.05 | 0.1 |
| 32.5 | -7.2 | .08 | -10.8 | -6.6 | 3.06 | 0.1 |
| 33.0 | -6.3 | .36 | -4.4 | -4.7 | 3.81 | 0.9 |
| 33.5 | -7.1 | 3.36 | 5.3 | -6.2 | 4.05 | 1.2 |
| 34.0 | -8.0 | .43 | -3.6 | -7.7 | 3.36 | 0.4 |
| 34.5 | -9.1 | .14 | -8.5 | -8.2 | 2.85 | -0.2 |
| 35.0 | -9.7 | .21 | -6.6 | -8.4 | 4.26 | 1.4 |
| 35.5 | -6.7 | 12.19 | 10.9 | -7.1 | 5.82 | 3.2 |
| 36.0 | -8.3 | 20.38 | 13.1 | -8.2 | 5.96 | 3.4 |
| 36.5 | -9.8 | 17.11 | 12.3 | -8.8 | 5.84 | 3.3 |
| 37.0 | -7.7 | 9.88 | 10.0 | -8.0 | 5.75 | 3.1 |
| 37.5 | -8.5 | 14.05 | 11.5 | -9.5 | 7.33 | 5.0 |
| 38.0 | -8.9 | 21.71 | 13.4 | -9.4 | 8.36 | 6.1 |
| 38.5 | -9.0 | 13.42 | 11.3 | -9.5 | 6.33 | 3.8 |
| 39.0 | -7.4 | 12.02 | 10.8 | -8.8 | 8.17 | 5.9 |
| 39.5 | -11.4 | 17.92 | 12.5 | -10.8 | 3.76 | 0.9 |
| 40.0 | -15.5 | 1.69 | 2.3 | -11.3 | 3.33 | 0.4 |
| 40.5 | -15.6 | .31 | -5.0 | -12.9 | 3.30 | 0.3 |
| 41.0 | -12.5 | .18 | -7.4 | -13.0 | 3.53 | 0.6 |
| 41.5 | -14.8 | 6.84 | 8.4 | -13.9 | 3.12 | 0.1 |
| 42.0 | -19.2 | .22 | -6.4 | -13.0 | 3.04 | 0.0 |
| 42.5 | -19.8 | .00 | -13.3 | -13.9 | 2.71 | -0.3 |

TSC 206L #71, FLYOVER, 130 MPH, 560 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -13.5 | .98 | 0.0 | -5.5 | 4.24 | 1.4 |
| 1.0 | -10.7 | 2.60 | 4.1 | -2.7 | 5.85 | 3.3 |
| 1.5 | -6.7 | 4.34 | 6.4 | -1.4 | 7.14 | 4.7 |
| 2.0 | -3.9 | 1.07 | 0.3 | 0.0 | 6.15 | 3.6 |
| 2.5 | -6.2 | 1.31 | 1.2 | -0.3 | 6.23 | 3.7 |
| 3.0 | -7.5 | 5.89 | 7.7 | -2.1 | 3.86 | 1.0 |
| 3.5 | -4.0 | .25 | -5.9 | -0.4 | 4.75 | 2.0 |
| 4.0 | -8.4 | 1.72 | 2.4 | -1.4 | 4.53 | 1.8 |
| 4.5 | -8.4 | .70 | -1.5 | -2.3 | 3.54 | 0.6 |
| 5.0 | -7.6 | .06 | -11.6 | -2.4 | 3.63 | 0.7 |
| 5.5 | -7.2 | .70 | -1.5 | -1.6 | 3.32 | 0.4 |
| 6.0 | -3.5 | 8.59 | 9.3 | -2.5 | 3.93 | 1.1 |
| 6.5 | -4.0 | 5.09 | 7.1 | -2.4 | 3.29 | 0.3 |
| 7.0 | -3.4 | 1.29 | 1.1 | -0.9 | 2.98 | 0.0 |
| 7.5 | -3.7 | .10 | -9.6 | -0.2 | 3.38 | 0.4 |
| 8.0 | -0.4 | .29 | -5.2 | 0.0 | 3.38 | 0.4 |
| 8.5 | -3.0 | .00 | -12.7 | -1.4 | 3.03 | 0.0 |
| 9.0 | -2.1 | .00 | -13.0 | -2.0 | 2.81 | -0.2 |
| 9.5 | -2.2 | .20 | -6.9 | -2.6 | 2.97 | 0.0 |
| 10.0 | -4.8 | 5.55 | 7.4 | -3.9 | 3.01 | 0.0 |
| 10.5 | -0.5 | .78 | -1.0 | -2.3 | 3.66 | 0.8 |
| 11.0 | -2.7 | .14 | -8.5 | -2.4 | 2.58 | -0.5 |
| 11.5 | -2.4 | .17 | -7.6 | -3.2 | 2.99 | 0.0 |
| 12.0 | 0.0 | .00 | -20.2 | -1.2 | 2.76 | -0.3 |
| 12.5 | -1.5 | .00 | -19.0 | -1.8 | 2.89 | 0.0 |
| 13.0 | -1.0 | .06 | -11.8 | -1.3 | 3.11 | 0.1 |
| 13.5 | -3.8 | .10 | -9.8 | -2.5 | 2.99 | 0.0 |
| 14.0 | -5.9 | .68 | -1.7 | -4.9 | 3.29 | 0.3 |
| 14.5 | -7.4 | .00 | -13.0 | -7.9 | 3.06 | 0.1 |
| 15.0 | -7.6 | .00 | -17.3 | -8.4 | 3.35 | 0.4 |
| 15.5 | -8.8 | .00 | -16.0 | -9.5 | 3.23 | 0.3 |
| 16.0 | -10.2 | .00 | -20.0 | -9.8 | 2.60 | -0.5 |
| 16.5 | -8.0 | .00 | -12.6 | -9.2 | 3.18 | 0.2 |
| 17.0 | -9.7 | .00 | -14.6 | -10.7 | 2.77 | -0.3 |
| 17.5 | -9.6 | .00 | -14.7 | -8.8 | 2.79 | -0.2 |
| 18.0 | -8.2 | .00 | -14.4 | -8.2 | 2.77 | -0.3 |
| 18.5 | -9.4 | .10 | -9.9 | -9.2 | 2.82 | -0.2 |
| 19.0 | -10.2 | .00 | -16.1 | -11.3 | 2.90 | 0.0 |
| 19.5 | -11.0 | .08 | -10.7 | -10.7 | 2.97 | 0.0 |
| 20.0 | -11.2 | .07 | -11.2 | -12.6 | 2.86 | -0.2 |

TSC 47G #19: 6 DEG. APRCH., 60 MPH, 400 FT. (RERUN)

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -14.3 | 9.79 | 9.9 | -16.4 | 7.99 | 5.7 |
| 1.0 | -13.1 | 27.63 | 14.4 | -14.9 | 8.84 | 6.7 |
| 1.5 | -13.3 | 15.62 | 11.9 | -15.4 | 10.43 | 8.5 |
| 2.0 | -15.3 | 13.70 | 11.4 | -16.3 | 4.55 | 1.8 |
| 2.5 | -17.4 | 8.11 | 9.1 | -16.8 | 3.22 | 0.3 |
| 3.0 | -17.3 | 4.48 | 6.5 | -17.3 | 4.01 | 1.2 |
| 3.5 | -19.1 | .45 | -3.5 | -17.3 | 2.82 | -0.2 |
| 4.0 | -14.9 | 5.96 | 7.8 | -15.6 | 4.28 | 1.5 |
| 4.5 | -14.8 | 3.87 | 5.9 | -15.7 | 3.92 | 1.1 |
| 5.0 | -14.0 | 11.36 | 10.6 | -15.1 | 5.95 | 3.4 |
| 5.5 | -13.0 | 12.72 | 11.0 | -14.8 | 9.38 | 7.3 |
| 6.0 | -12.1 | 16.58 | 12.2 | -13.6 | 6.89 | 4.5 |
| 6.5 | -11.6 | 15.76 | 12.0 | -13.3 | 8.06 | 5.8 |
| 7.0 | -10.9 | 5.48 | 7.4 | -12.4 | 8.65 | 6.5 |
| 7.5 | -9.8 | 12.66 | 11.0 | -12.0 | 12.82 | 11.2 |
| 8.0 | -7.5 | 27.10 | 14.3 | -10.7 | 13.15 | 11.6 |
| 8.5 | -7.0 | 23.89 | 13.8 | -10.0 | 11.33 | 9.5 |
| 9.0 | -8.2 | 11.43 | 10.6 | -10.1 | 9.86 | 7.9 |
| 9.5 | -8.3 | 4.93 | 6.9 | -10.4 | 7.71 | 5.4 |
| 10.0 | -6.9 | 26.67 | 14.3 | -9.0 | 9.40 | 7.3 |
| 10.5 | -4.3 | 19.85 | 13.0 | -6.8 | 11.33 | 9.5 |
| 11.0 | -5.0 | 14.94 | 11.7 | -7.1 | 10.61 | 8.7 |
| 11.5 | -4.3 | 10.65 | 10.3 | -6.2 | 9.97 | 8.0 |
| 12.0 | -4.0 | 12.09 | 10.8 | -6.1 | 8.81 | 6.7 |
| 12.5 | -3.8 | 11.65 | 10.7 | -5.5 | 10.49 | 8.6 |
| 13.0 | -4.3 | 11.37 | 10.6 | -5.5 | 9.39 | 7.3 |
| 13.5 | -3.0 | 10.56 | 10.2 | -4.4 | 9.63 | 7.6 |
| 14.0 | -1.6 | 6.96 | 8.4 | -3.1 | 8.61 | 6.4 |
| 14.5 | -0.9 | 6.47 | 8.1 | -2.2 | 6.57 | 4.1 |
| 15.0 | -1.5 | 1.91 | 2.8 | -1.4 | 4.91 | 2.2 |
| 15.5 | -0.9 | 1.74 | 2.4 | -1.0 | 4.30 | 1.5 |
| 16.0 | -0.4 | 1.10 | 0.4 | -0.6 | 4.79 | 2.0 |
| 16.5 | 0.0 | .53 | -2.8 | -0.4 | 5.00 | 2.3 |
| 17.0 | -0.4 | 1.02 | 0.1 | -0.2 | 4.62 | 1.9 |
| 17.5 | -1.0 | .58 | -2.3 | -0.3 | 3.94 | 1.1 |
| 18.0 | -1.1 | .07 | -11.5 | 0.0 | 3.65 | 0.8 |
| 18.5 | -2.9 | .00 | -17.2 | -1.5 | 3.70 | 0.8 |
| 19.0 | -2.3 | .08 | -10.6 | -0.7 | 3.67 | 0.8 |
| 19.5 | -1.5 | .12 | -9.0 | -0.6 | 3.86 | 1.0 |
| 20.0 | -2.2 | .57 | -2.4 | -1.6 | 3.90 | 1.0 |
| 20.5 | -3.1 | .48 | -3.2 | -2.4 | 3.74 | 0.9 |
| 21.0 | -3.1 | .83 | -0.8 | -3.5 | 4.59 | 1.8 |
| 21.5 | -4.0 | .52 | -2.8 | -4.8 | 5.06 | 2.4 |
| 22.0 | -5.2 | .14 | -8.5 | -7.2 | 4.61 | 1.8 |
| 22.5 | -7.3 | .00 | -15.3 | -9.1 | 4.38 | 1.6 |
| 23.0 | -9.3 | .06 | -11.9 | -10.7 | 3.82 | 0.9 |
| 23.5 | -8.9 | .19 | -7.0 | -10.8 | 4.99 | 2.3 |
| 24.0 | -9.1 | .06 | -11.6 | -11.5 | 3.88 | 1.0 |
| 24.5 | -6.0 | 9.52 | 9.8 | -7.9 | 12.78 | 11.2 |
| 25.0 | -6.8 | 8.23 | 9.2 | -9.8 | 12.39 | 10.7 |

TSC 47G #19: 6 DEG. APRCH., 60 MPH, 400 FT. (RERUN)

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -9.8 | .37 | -4.3 | -11.7 | 4.02 | 1.2 |
| 26.0 | -11.1 | .00 | -17.5 | -11.7 | 2.83 | -0.2 |
| 26.5 | -11.9 | .10 | -9.8 | -11.7 | 3.12 | 0.1 |
| 27.0 | -12.3 | .12 | -9.0 | -11.9 | 3.18 | 0.2 |
| 27.5 | -12.1 | .20 | -6.9 | -12.5 | 3.40 | 0.5 |
| 28.0 | -12.8 | .30 | -5.2 | -12.6 | 3.50 | 0.6 |
| 28.5 | -13.9 | .12 | -8.9 | -12.9 | 3.26 | 0.3 |
| 29.0 | -14.4 | .27 | -5.7 | -13.4 | 2.91 | 0.0 |
| 29.5 | -14.5 | .58 | -2.3 | -13.8 | 3.34 | 0.4 |
| 30.0 | -14.5 | .33 | -4.8 | -14.1 | 2.98 | 0.0 |
| 30.5 | -15.8 | .34 | -4.6 | -14.4 | 2.70 | -0.3 |
| 31.0 | -16.8 | .11 | -9.4 | -14.5 | 2.61 | -0.4 |

TSC 470 #19: 6 DEG. APRCH., 60MPH, 400 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -15.0 | 7.05 | 8.5 | -16.2 | 7.91 | 5.6 |
| 1.0 | -12.6 | 21.64 | 13.4 | -15.0 | 9.04 | 6.9 |
| 1.5 | -12.7 | 28.67 | 14.6 | -15.5 | 10.64 | 8.7 |
| 2.0 | -15.5 | 4.35 | 6.4 | -16.3 | 4.56 | 1.8 |
| 2.5 | -17.4 | 4.14 | 6.2 | -16.7 | 3.21 | 0.2 |
| 3.0 | -17.2 | 7.68 | 8.9 | -17.3 | 4.04 | 1.2 |
| 3.5 | -19.0 | .83 | -0.8 | -17.2 | 2.78 | -0.2 |
| 4.0 | -14.8 | 2.65 | 4.2 | -15.6 | 4.26 | 1.4 |
| 4.5 | -14.7 | 1.65 | 2.2 | -15.7 | 3.93 | 1.1 |
| 5.0 | -14.1 | 8.18 | 9.1 | -15.1 | 5.99 | 3.4 |
| 5.5 | -12.9 | 11.43 | 10.6 | -14.7 | 9.21 | 7.1 |
| 6.0 | -12.1 | 15.26 | 11.8 | -13.6 | 6.89 | 4.5 |
| 6.5 | -11.5 | 16.39 | 12.1 | -13.3 | 7.99 | 5.7 |
| 7.0 | -10.6 | 11.82 | 10.7 | -12.5 | 8.75 | 6.6 |
| 7.5 | -10.0 | 11.22 | 10.5 | -12.0 | 12.84 | 11.3 |
| 8.0 | -7.3 | 7.16 | 8.6 | -10.7 | 13.14 | 11.6 |
| 8.5 | -7.1 | 15.50 | 11.9 | -10.0 | 11.34 | 9.5 |
| 9.0 | -7.6 | 18.29 | 12.6 | -10.0 | 9.68 | 7.6 |
| 9.5 | -8.3 | 17.19 | 12.4 | -10.4 | 7.74 | 5.4 |
| 10.0 | -6.9 | 7.95 | 9.0 | -9.0 | 9.45 | 7.4 |
| 10.5 | -4.2 | 11.08 | 10.4 | -6.8 | 11.34 | 9.5 |
| 11.0 | -4.9 | 20.11 | 13.0 | -7.1 | 10.58 | 8.7 |
| 11.5 | -3.8 | 11.86 | 10.7 | -6.0 | 9.77 | 7.7 |
| 12.0 | -4.3 | 12.78 | 11.1 | -6.2 | 8.88 | 6.7 |
| 12.5 | -3.7 | 8.18 | 9.1 | -5.5 | 10.34 | 8.4 |
| 13.0 | -4.0 | 12.71 | 11.0 | -5.5 | 9.52 | 7.5 |
| 13.5 | -2.9 | 11.59 | 10.6 | -4.4 | 9.48 | 7.4 |
| 14.0 | -1.5 | 7.58 | 8.8 | -3.1 | 8.66 | 6.5 |
| 14.5 | -0.8 | 4.22 | 6.3 | -2.2 | 6.57 | 4.1 |
| 15.0 | -1.0 | 2.33 | 3.7 | -1.3 | 4.92 | 2.2 |
| 15.5 | -1.0 | 1.05 | 0.2 | -0.9 | 4.35 | 1.5 |
| 16.0 | -0.4 | 1.19 | 0.8 | -0.6 | 4.74 | 2.0 |
| 16.5 | 0.0 | .57 | -2.4 | -0.4 | 5.03 | 2.3 |
| 17.0 | 0.0 | 1.02 | 0.1 | -0.2 | 4.56 | 1.8 |
| 17.5 | -1.1 | .22 | -6.6 | -0.3 | 3.94 | 1.1 |
| 18.0 | -1.1 | .13 | -8.8 | 0.0 | 3.68 | 0.8 |
| 18.5 | -2.8 | .00 | -16.8 | -1.5 | 3.71 | 0.8 |
| 19.0 | -2.1 | .00 | -13.0 | -0.7 | 3.64 | 0.7 |
| 19.5 | -1.2 | .12 | -9.1 | -0.6 | 3.85 | 1.0 |
| 20.0 | -2.2 | 1.84 | 2.7 | -1.7 | 3.94 | 1.1 |
| 20.5 | -3.0 | .75 | -1.2 | -2.4 | 3.70 | 0.8 |
| 21.0 | -2.9 | 1.53 | 1.9 | -3.5 | 4.68 | 1.9 |
| 21.5 | -3.7 | .47 | -3.3 | -4.8 | 5.03 | 2.3 |
| 22.0 | -5.3 | .09 | -10.2 | -7.2 | 4.66 | 1.9 |
| 22.5 | -7.2 | .00 | -15.4 | -9.1 | 4.33 | 1.5 |
| 23.0 | -9.3 | .07 | -11.2 | -10.8 | 3.84 | 1.0 |
| 23.5 | -8.8 | .19 | -7.1 | -10.8 | 4.94 | 2.2 |
| 24.0 | -9.0 | .07 | -11.3 | -11.0 | 5.35 | 2.7 |
| 24.5 | -5.3 | 6.98 | 8.4 | -8.1 | 13.56 | 12.1 |
| 25.0 | -7.3 | 10.71 | 10.3 | -9.8 | 12.32 | 10.7 |

TSC 47G #19: 6 DEG. APRCH., 60MPH, 400 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -9.6 | .41 | -3.8 | -11.6 | 4.03 | 1.2 |
| 26.0 | -11.1 | .00 | -16.9 | -11.8 | 2.83 | -0.2 |
| 26.5 | -11.8 | .09 | -10.3 | -11.7 | 3.11 | 0.1 |
| 27.0 | -12.2 | .10 | -9.6 | -11.9 | 3.17 | 0.2 |
| 27.5 | -11.9 | .19 | -7.0 | -12.3 | 3.43 | 0.5 |
| 28.0 | -12.7 | .16 | -7.9 | -12.7 | 3.46 | 0.5 |
| 28.5 | -14.0 | .15 | -8.2 | -12.8 | 3.19 | 0.2 |
| 29.0 | -14.4 | .26 | -5.8 | -13.5 | 2.98 | 0.0 |
| 29.5 | -14.4 | .62 | -2.0 | -13.7 | 3.33 | 0.4 |
| 30.0 | -14.4 | .50 | -2.9 | -14.2 | 3.02 | 0.0 |
| 30.5 | -15.8 | .39 | -4.1 | -14.4 | 2.65 | -0.4 |
| 31.0 | -16.6 | .15 | -8.1 | -14.6 | 2.64 | -0.4 |

TSC 470 #29: FLYOVER, 68 MPH, 500 FT.

| TIME | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -14.8 | .00 | -18.6 | -11.2 | 2.82 | -0.2 |
| 1.0 | -13.9 | .00 | -16.0 | -9.8 | 2.68 | -0.4 |
| 1.5 | -13.9 | .00 | -19.5 | -9.6 | 2.78 | -0.2 |
| 2.0 | -13.9 | .00 | -18.5 | -10.4 | 2.91 | 0.0 |
| 2.5 | -12.3 | .00 | -20.7 | -10.4 | 2.87 | 0.0 |
| 3.0 | -11.9 | .00 | -18.5 | -9.7 | 2.98 | 0.0 |
| 3.5 | -10.8 | .00 | -20.7 | -8.2 | 2.84 | -0.2 |
| 4.0 | -10.7 | .00 | -18.3 | -7.4 | 2.75 | -0.3 |
| 4.5 | -9.0 | .00 | -20.4 | -6.6 | 2.57 | -0.5 |
| 5.0 | -7.9 | .00 | -21.0 | -5.4 | 2.73 | -0.3 |
| 5.5 | -6.9 | .00 | -17.7 | -5.0 | 3.11 | 0.1 |
| 6.0 | -3.9 | .00 | -22.9 | -2.9 | 2.79 | -0.2 |
| 6.5 | -3.4 | .00 | -27.6 | -2.9 | 3.05 | 0.1 |
| 7.0 | -2.0 | .00 | -21.5 | -2.1 | 2.88 | 0.0 |
| 7.5 | -1.5 | .00 | -20.1 | -1.7 | 3.25 | 0.3 |
| 8.0 | -2.2 | .00 | -24.2 | -1.9 | 3.09 | 0.1 |
| 8.5 | -2.1 | .00 | -24.1 | -1.4 | 2.96 | 0.0 |
| 9.0 | -2.0 | .00 | -24.2 | -1.3 | 2.94 | 0.0 |
| 9.5 | -1.2 | .00 | -23.6 | -0.7 | 3.17 | 0.2 |
| 10.0 | -1.2 | .00 | -22.0 | -0.3 | 3.07 | 0.1 |
| 10.5 | -0.4 | .00 | -16.7 | 0.0 | 2.82 | -0.2 |
| 11.0 | 0.0 | .00 | -23.0 | 0.0 | 2.80 | -0.2 |
| 11.5 | -1.2 | .00 | -23.2 | -1.2 | 2.81 | -0.2 |
| 12.0 | -2.6 | .00 | -20.9 | -2.2 | 2.68 | -0.4 |
| 12.5 | -1.0 | .00 | -15.7 | -2.4 | 2.88 | 0.0 |
| 13.0 | -0.8 | .00 | -21.3 | -2.4 | 2.89 | 0.0 |
| 13.5 | -0.8 | .00 | -19.2 | -2.8 | 3.14 | 0.2 |
| 14.0 | -2.4 | .00 | -16.2 | -3.9 | 3.26 | 0.3 |
| 14.5 | -2.0 | .00 | -13.3 | -4.1 | 3.21 | 0.3 |
| 15.0 | -2.4 | .00 | -17.2 | -4.4 | 3.26 | 0.3 |
| 15.5 | -5.0 | .00 | -23.5 | -5.8 | 2.78 | -0.2 |
| 16.0 | -3.6 | .00 | -19.2 | -5.1 | 3.01 | 0.0 |
| 16.5 | -3.0 | .00 | -17.7 | -5.1 | 2.97 | 0.0 |
| 17.0 | -4.4 | .00 | -15.1 | -6.3 | 3.11 | 0.1 |
| 17.5 | -4.2 | .00 | -14.7 | -6.6 | 3.10 | 0.1 |
| 18.0 | -5.0 | .00 | -17.3 | -7.4 | 2.96 | 0.0 |
| 18.5 | -6.4 | .00 | -17.3 | -8.5 | 2.87 | 0.0 |
| 19.0 | -8.2 | .00 | -19.7 | -9.6 | 2.89 | 0.0 |
| 19.5 | -9.1 | .00 | -19.5 | -9.9 | 2.53 | -0.5 |
| 20.0 | -6.4 | .00 | -20.9 | -8.0 | 3.03 | 0.0 |
| 20.5 | -6.3 | .00 | -18.1 | -7.3 | 2.73 | -0.3 |
| 21.0 | -6.5 | .00 | -18.1 | -7.7 | 2.68 | -0.4 |
| 21.5 | -3.5 | .06 | -12.0 | -6.3 | 2.98 | 0.0 |
| 22.0 | -3.3 | .00 | -17.9 | -6.6 | 3.14 | 0.2 |
| 22.5 | -5.2 | .00 | -17.9 | -7.9 | 2.93 | 0.0 |
| 23.0 | -3.6 | .00 | -14.2 | -7.2 | 3.05 | 0.1 |
| 23.5 | -6.3 | .00 | -15.9 | -9.2 | 2.84 | -0.2 |
| 24.0 | -8.4 | .00 | -17.3 | -10.3 | 2.82 | -0.2 |
| 24.5 | -9.0 | .00 | -18.1 | -11.0 | 2.73 | -0.3 |
| 25.0 | -10.0 | .00 | -17.1 | -11.5 | 2.69 | -0.4 |

TSC 47G #29: FLYOVER, 68 MPH, 500 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -9.0 | .00 | -17.2 | -10.6 | 2.81 | -0.2 |
| 26.0 | -7.8 | .00 | -12.2 | -10.4 | 3.10 | 0.1 |
| 26.5 | -10.5 | .00 | -15.8 | -11.3 | 2.83 | -0.2 |
| 27.0 | -11.0 | .00 | -17.6 | -11.6 | 2.91 | 0.0 |
| 27.5 | -10.3 | .00 | -13.7 | -11.6 | 2.95 | 0.0 |
| 28.0 | -8.3 | .00 | -15.1 | -10.9 | 2.84 | -0.2 |
| 28.5 | -8.6 | .00 | -14.8 | -11.0 | 3.25 | 0.3 |
| 29.0 | -11.1 | .07 | -11.5 | -12.6 | 2.79 | -0.2 |
| 29.5 | -12.1 | .00 | -16.5 | -13.5 | 3.20 | 0.2 |
| 30.0 | -12.6 | .00 | -17.7 | -13.1 | 2.77 | -0.3 |
| 30.5 | -12.4 | .00 | -17.6 | -13.2 | 3.21 | 0.3 |
| 31.0 | -12.2 | .00 | -15.2 | -13.9 | 3.08 | 0.1 |
| 31.5 | -13.8 | .27 | -5.7 | -15.0 | 3.01 | 0.0 |
| 32.0 | -15.1 | .00 | -18.5 | -16.3 | 2.84 | -0.2 |
| 32.5 | -14.4 | .00 | -14.5 | -16.2 | 2.97 | 0.0 |

TSC 47G #30 FLYOVER, 75 MPH, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -16.9 | .11 | -9.2 | -11.8 | 3.15 | 0.2 |
| 1.0 | -15.4 | .00 | -14.3 | -11.8 | 3.01 | 0.0 |
| 1.5 | -14.2 | .00 | -14.6 | -10.5 | 2.71 | -0.3 |
| 2.0 | -13.4 | .11 | -9.3 | -9.3 | 2.91 | 0.0 |
| 2.5 | -12.0 | .16 | -7.7 | -8.6 | 3.19 | 0.2 |
| 3.0 | -11.2 | .00 | -17.7 | -8.1 | 2.60 | -0.5 |
| 3.5 | -9.1 | .06 | -11.8 | -7.7 | 2.87 | 0.0 |
| 4.0 | -6.7 | .00 | -19.1 | -6.0 | 2.67 | -0.4 |
| 4.5 | -5.7 | .00 | -21.5 | -4.5 | 2.60 | -0.5 |
| 5.0 | -4.3 | .00 | -20.2 | -2.8 | 2.47 | -0.6 |
| 5.5 | -3.5 | .00 | -25.0 | -1.8 | 2.54 | -0.5 |
| 6.0 | -1.8 | .00 | -19.6 | -0.4 | 2.74 | -0.3 |
| 6.5 | -1.0 | .00 | -27.3 | 0.0 | 2.70 | -0.3 |
| 7.0 | -0.9 | .00 | -24.6 | -0.6 | 2.79 | -0.2 |
| 7.5 | 0.0 | .00 | -25.8 | 0.0 | 2.83 | -0.2 |
| 8.0 | -0.5 | .00 | -22.6 | -0.8 | 2.86 | -0.2 |
| 8.5 | 0.0 | .00 | -21.6 | 0.0 | 2.76 | -0.3 |
| 9.0 | -1.3 | .00 | -25.8 | -0.8 | 2.73 | -0.3 |
| 9.5 | -0.7 | .00 | -24.0 | -1.6 | 2.63 | -0.4 |
| 10.0 | -0.7 | .00 | -24.3 | -2.1 | 2.52 | -0.5 |
| 10.5 | -1.4 | .00 | -17.6 | -3.3 | 2.45 | -0.6 |
| 11.0 | -4.0 | .00 | -20.0 | -4.6 | 2.53 | -0.5 |
| 11.5 | -2.6 | .00 | -17.9 | -5.4 | 2.79 | -0.2 |
| 12.0 | -5.0 | .00 | -18.8 | -7.2 | 2.99 | 0.0 |
| 12.5 | -6.6 | .00 | -13.8 | -9.0 | 3.15 | 0.2 |
| 13.0 | -6.6 | .00 | -20.2 | -8.9 | 2.98 | 0.0 |
| 13.5 | -5.4 | .00 | -23.6 | -8.7 | 2.88 | 0.0 |
| 14.0 | -6.8 | .00 | -18.0 | -8.6 | 2.91 | 0.0 |
| 14.5 | -5.6 | .00 | -13.8 | -8.7 | 3.04 | 0.1 |

TSC 47G #41: 9 DEG APRCH., 400 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -14.5 | 2.07 | 3.2 | -11.7 | 3.14 | 0.2 |
| 1.0 | -12.0 | 14.02 | 11.5 | -10.6 | 4.42 | 1.6 |
| 1.5 | -11.0 | 3.52 | 5.5 | -10.4 | 5.00 | 2.3 |
| 2.0 | -12.1 | 4.75 | 6.8 | -10.6 | 4.16 | 1.3 |
| 2.5 | -14.3 | .64 | -1.9 | -11.2 | 3.07 | 0.1 |
| 3.0 | -13.6 | 1.79 | 2.5 | -11.2 | 2.92 | 0.0 |
| 3.5 | -13.1 | .53 | -2.7 | -11.0 | 2.96 | 0.0 |
| 4.0 | -12.0 | .39 | -4.0 | -10.1 | 2.73 | -0.3 |
| 4.5 | -11.0 | .21 | -6.7 | -9.7 | 2.58 | -0.5 |
| 5.0 | -10.0 | 1.24 | 0.9 | -9.2 | 2.75 | -0.3 |
| 5.5 | -10.6 | .08 | -10.8 | -8.7 | 2.74 | -0.3 |
| 6.0 | -8.6 | .23 | -6.3 | -7.2 | 2.93 | 0.0 |
| 6.5 | -5.2 | 2.30 | 3.6 | -4.8 | 4.36 | 1.6 |
| 7.0 | -2.3 | 7.89 | 9.0 | -2.4 | 6.10 | 3.5 |
| 7.5 | 0.0 | 6.00 | 7.8 | -0.5 | 7.55 | 5.2 |
| 8.0 | -0.5 | 1.05 | 0.2 | -0.3 | 6.00 | 3.4 |
| 8.5 | 0.0 | .72 | -1.4 | 0.0 | 5.23 | 2.6 |
| 9.0 | -2.6 | .44 | -3.6 | -2.2 | 3.42 | 0.5 |
| 9.5 | -4.0 | .00 | -12.4 | -3.2 | 2.76 | -0.3 |
| 10.0 | -4.3 | .00 | -16.1 | -3.7 | 2.72 | -0.3 |
| 10.5 | -4.4 | .00 | -22.2 | -4.0 | 2.64 | -0.4 |
| 11.0 | -4.0 | .00 | -19.4 | -3.5 | 2.85 | -0.2 |
| 11.5 | -3.9 | .00 | -22.9 | -3.4 | 2.98 | 0.0 |
| 12.0 | -4.6 | .00 | -20.8 | -3.7 | 2.51 | -0.6 |
| 12.5 | -4.6 | .00 | -21.9 | -4.1 | 2.65 | -0.4 |
| 13.0 | -5.2 | .00 | -19.3 | -4.7 | 2.51 | -0.6 |
| 13.5 | -5.4 | .00 | -22.4 | -5.0 | 2.60 | -0.5 |
| 14.0 | -6.5 | .00 | -22.0 | -5.7 | 2.51 | -0.5 |
| 14.5 | -7.1 | .00 | -20.6 | -6.4 | 2.83 | -0.2 |
| 15.0 | -7.6 | .00 | -19.1 | -7.7 | 2.82 | -0.2 |
| 15.5 | -6.2 | .00 | -19.0 | -7.9 | 3.41 | 0.5 |
| 16.0 | -7.6 | .00 | -21.7 | -9.4 | 2.83 | -0.2 |
| 16.5 | -7.9 | .00 | -15.8 | -9.5 | 3.50 | 0.6 |
| 17.0 | -9.1 | .00 | -20.2 | -10.8 | 2.99 | 0.0 |
| 17.5 | -8.6 | .00 | -23.6 | -11.3 | 3.22 | 0.3 |
| 18.0 | -8.3 | .00 | -22.0 | -11.2 | 3.43 | 0.5 |
| 18.5 | -9.9 | .00 | -19.4 | -12.0 | 3.51 | 0.6 |
| 19.0 | -11.5 | .00 | -13.9 | -12.7 | 3.15 | 0.2 |
| 19.5 | -11.9 | .00 | -13.3 | -12.7 | 3.40 | 0.5 |
| 20.0 | -12.3 | .00 | -16.7 | -13.2 | 3.15 | 0.2 |
| 20.5 | -11.9 | .00 | -15.4 | -12.3 | 2.89 | 0.0 |
| 21.0 | -11.3 | .00 | -17.1 | -13.0 | 3.28 | 0.3 |
| 21.5 | -12.7 | .00 | -20.4 | -13.2 | 2.95 | 0.0 |
| 22.0 | -13.8 | .00 | -18.8 | -13.2 | 2.57 | -0.5 |
| 22.5 | -16.2 | .00 | -13.5 | -15.1 | 2.91 | 0.0 |
| 23.0 | -17.6 | .00 | -17.9 | -14.6 | 2.73 | -0.3 |
| 23.5 | -15.5 | .00 | -21.5 | -15.1 | 2.64 | -0.4 |
| 24.0 | -15.5 | .00 | -19.8 | -15.8 | 2.72 | -0.3 |
| 24.5 | -16.0 | .00 | -18.7 | -15.6 | 2.94 | 0.0 |
| 25.0 | -16.4 | .00 | -19.0 | -15.3 | 2.88 | 0.0 |

TSC 500C #58: FLYOVER, 70 MPH, 500 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -10.0 | .00 | -16.3 | -8.9 | 2.91 | 0.0 |
| 1.0 | -8.2 | .29 | -5.4 | -8.2 | 2.99 | 0.0 |
| 1.5 | -6.7 | .00 | -12.2 | -7.8 | 3.19 | 0.2 |
| 2.0 | -6.1 | .00 | -16.4 | -7.4 | 3.09 | 0.1 |
| 2.5 | -7.8 | .00 | -22.9 | -7.6 | 2.88 | 0.0 |
| 3.0 | -8.5 | .00 | -23.1 | -7.7 | 2.81 | -0.2 |
| 3.5 | -8.2 | .09 | -10.3 | -7.1 | 3.02 | 0.0 |
| 4.0 | -7.2 | .00 | -12.7 | -6.6 | 2.88 | 0.0 |
| 4.5 | -9.3 | .00 | -14.4 | -6.9 | 2.75 | -0.3 |
| 5.0 | -9.3 | .00 | -19.5 | -6.8 | 2.60 | -0.5 |
| 5.5 | -8.4 | .00 | -12.5 | -6.0 | 2.89 | 0.0 |
| 6.0 | -1.9 | 15.59 | 11.9 | -4.2 | 9.59 | 7.5 |
| 6.5 | 0.0 | 3.63 | 5.6 | -2.6 | 6.12 | 3.6 |
| 7.0 | -8.1 | .00 | -19.6 | -5.1 | 2.92 | 0.0 |
| 7.5 | -5.7 | .00 | -21.8 | -4.3 | 2.86 | 0.0 |
| 8.0 | -7.1 | .00 | -20.0 | -4.7 | 2.81 | -0.2 |
| 8.5 | -7.0 | .00 | -20.3 | -4.5 | 2.72 | -0.3 |
| 9.0 | -7.5 | .00 | -17.7 | -5.0 | 2.66 | -0.4 |
| 9.5 | -7.4 | .00 | -21.2 | -4.0 | 2.71 | -0.3 |
| 10.0 | -5.2 | .00 | -20.3 | -2.6 | 2.72 | -0.3 |
| 10.5 | -4.4 | .00 | -15.6 | -2.2 | 2.61 | -0.4 |
| 11.0 | -3.5 | .00 | -23.1 | -1.5 | 2.66 | -0.4 |
| 11.5 | -2.7 | .00 | -22.2 | -1.3 | 2.75 | -0.3 |
| 12.0 | -2.8 | .00 | -20.5 | -1.0 | 2.63 | -0.4 |
| 12.5 | -0.9 | .00 | -20.6 | -0.6 | 2.72 | -0.3 |
| 13.0 | -0.9 | .00 | -21.5 | -0.2 | 2.87 | 0.0 |
| 13.5 | -0.5 | .00 | -20.5 | 0.0 | 2.83 | -0.2 |
| 14.0 | -0.2 | .00 | -19.0 | 0.0 | 2.82 | -0.2 |
| 14.5 | -1.6 | .00 | -22.0 | -1.3 | 2.75 | -0.3 |
| 15.0 | -2.8 | .00 | -18.3 | -2.1 | 3.03 | 0.0 |
| 15.5 | -3.5 | .00 | -19.7 | -2.4 | 2.86 | -0.2 |
| 16.0 | -3.4 | .00 | -18.5 | -2.8 | 3.07 | 0.1 |
| 16.5 | -4.5 | .07 | -11.4 | -4.1 | 2.86 | -0.2 |
| 17.0 | -4.7 | .00 | -15.8 | -4.5 | 2.84 | -0.2 |
| 17.5 | -7.9 | .00 | -21.8 | -5.8 | 3.08 | 0.1 |
| 18.0 | -9.1 | .00 | -17.1 | -7.1 | 2.77 | -0.3 |
| 18.5 | -11.2 | .00 | -14.8 | -8.7 | 2.69 | -0.4 |
| 19.0 | -13.2 | .00 | -17.3 | -10.3 | 3.01 | 0.0 |
| 19.5 | -12.9 | .00 | -17.6 | -11.0 | 2.72 | -0.3 |
| 20.0 | -12.3 | .15 | -8.0 | -10.2 | 2.85 | -0.2 |
| 20.5 | -11.6 | .00 | -13.3 | -10.3 | 2.70 | -0.3 |
| 21.0 | -13.3 | .06 | -11.9 | -10.8 | 2.73 | -0.3 |
| 21.5 | -14.6 | .07 | -11.4 | -11.0 | 2.80 | -0.2 |
| 22.0 | -15.4 | .00 | -15.3 | -11.4 | 2.88 | 0.0 |
| 22.5 | -16.0 | .00 | -17.3 | -12.5 | 2.89 | 0.0 |
| 23.0 | -16.1 | .00 | -15.6 | -12.3 | 3.10 | 0.1 |
| 23.5 | -16.4 | .00 | -14.6 | -12.4 | 2.77 | -0.3 |

TSC 500C #65: 6 DEG. APRCH., 69 MPH, 400 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -11.7 | .06 | -12.0 | -8.8 | 2.82 | -0.2 |
| 1.0 | -11.6 | .09 | -10.0 | -10.3 | 2.99 | 0.0 |
| 1.5 | -13.0 | .12 | -8.9 | -10.6 | 2.76 | -0.3 |
| 2.0 | -14.4 | .00 | -17.6 | -10.4 | 3.14 | 0.2 |
| 2.5 | -13.0 | .00 | -15.0 | -9.2 | 2.81 | -0.2 |
| 3.0 | -10.1 | .00 | -13.0 | -8.1 | 2.82 | -0.2 |
| 3.5 | -7.2 | .13 | -8.6 | -6.9 | 3.00 | 0.0 |
| 4.0 | -6.9 | .29 | -5.3 | -7.1 | 3.11 | 0.1 |
| 4.5 | -7.7 | .50 | -3.0 | -8.0 | 3.21 | 0.2 |
| 5.0 | -10.7 | .29 | -5.3 | -9.3 | 3.48 | 0.6 |
| 5.5 | -12.3 | .11 | -9.6 | -8.5 | 3.13 | 0.2 |
| 6.0 | -11.1 | .17 | -7.7 | -8.6 | 3.22 | 0.3 |
| 6.5 | -8.8 | .30 | -5.1 | -7.2 | 3.08 | 0.1 |
| 7.0 | -5.3 | .09 | -10.0 | -4.6 | 3.34 | 0.4 |
| 7.5 | -5.7 | .00 | -18.4 | -3.9 | 2.68 | -0.4 |
| 8.0 | -7.0 | .00 | -19.9 | -4.7 | 2.81 | -0.2 |
| 8.5 | -6.9 | .00 | -14.9 | -5.0 | 3.10 | 0.1 |
| 9.0 | -4.8 | .00 | -12.9 | -3.7 | 2.96 | 0.0 |
| 9.5 | -5.1 | .12 | -9.0 | -3.4 | 2.97 | 0.0 |
| 10.0 | -6.5 | .00 | -21.1 | -3.0 | 2.47 | -0.6 |
| 10.5 | -5.5 | .00 | -20.9 | -2.1 | 2.73 | -0.3 |
| 11.0 | -4.9 | .00 | -20.5 | -1.4 | 2.63 | -0.4 |
| 11.5 | -1.3 | .06 | -11.7 | -0.4 | 3.10 | 0.1 |
| 12.0 | -0.3 | .09 | -10.2 | 0.0 | 2.73 | -0.3 |
| 12.5 | -4.5 | .00 | -16.5 | -1.5 | 2.65 | -0.4 |
| 13.0 | -3.1 | .00 | -16.7 | -1.2 | 2.86 | -0.2 |
| 13.5 | -0.9 | .00 | -15.0 | -1.0 | 3.05 | 0.1 |
| 14.0 | -1.3 | .00 | -21.6 | -1.4 | 2.84 | -0.2 |
| 14.5 | -0.8 | .00 | -19.2 | -1.3 | 2.97 | 0.0 |
| 15.0 | -2.6 | .00 | -19.5 | -2.0 | 3.06 | 0.1 |
| 15.5 | -4.3 | .00 | -16.6 | -4.1 | 2.96 | 0.0 |
| 16.0 | -3.9 | .18 | -7.3 | -3.3 | 3.68 | 0.8 |
| 16.5 | -1.8 | .64 | -1.9 | -1.6 | 4.36 | 1.6 |
| 17.0 | 0.0 | .57 | -2.4 | -1.0 | 4.61 | 1.8 |
| 17.5 | -2.2 | 1.33 | 1.2 | -3.0 | 4.46 | 1.7 |
| 18.0 | -6.6 | .29 | -5.2 | -6.2 | 3.34 | 0.4 |
| 18.5 | -8.2 | .28 | -5.4 | -6.2 | 3.25 | 0.3 |
| 19.0 | -9.2 | .37 | -4.3 | -6.2 | 3.11 | 0.1 |
| 19.5 | -10.5 | .42 | -3.7 | -6.2 | 2.96 | 0.0 |
| 20.0 | -9.9 | .59 | -2.3 | -7.2 | 2.86 | 0.0 |
| 20.5 | -11.6 | .53 | -2.8 | -9.4 | 3.57 | 0.7 |
| 21.0 | -14.6 | .30 | -5.2 | -9.8 | 3.61 | 0.7 |
| 21.5 | -14.3 | .07 | -11.5 | -8.5 | 3.18 | 0.2 |
| 22.0 | -16.0 | .07 | -11.1 | -10.5 | 3.39 | 0.4 |
| 22.5 | -17.2 | .07 | -11.1 | -10.5 | 2.77 | -0.3 |
| 23.0 | -17.1 | .00 | -13.6 | -11.4 | 3.32 | 0.4 |

TSC 500C #109: FLYOVER 150 MPH, 500 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -12.5 | .00 | -14.6 | -11.6 | 3.11 | 0.1 |
| 1.0 | -14.7 | .00 | -24.3 | -12.5 | 3.08 | 0.1 |
| 1.5 | -8.3 | .12 | -9.1 | -10.7 | 3.86 | 1.0 |
| 2.0 | -9.3 | .00 | -22.3 | -10.1 | 3.68 | 0.8 |
| 2.5 | -11.0 | .00 | -21.4 | -10.2 | 3.23 | 0.3 |
| 3.0 | -11.8 | .00 | -17.3 | -11.4 | 3.42 | 0.5 |
| 3.5 | -9.1 | .00 | -20.3 | -10.4 | 3.23 | 0.3 |
| 4.0 | -9.6 | .00 | -22.2 | -8.7 | 2.92 | 0.0 |
| 4.5 | -9.0 | .00 | -21.8 | -7.8 | 2.88 | 0.0 |
| 5.0 | -10.3 | .00 | -21.6 | -7.7 | 2.76 | -0.3 |
| 5.5 | -9.3 | .00 | -22.2 | -7.3 | 2.77 | -0.3 |
| 6.0 | -9.3 | .00 | -21.2 | -6.4 | 2.76 | -0.3 |
| 6.5 | -9.9 | .00 | -21.3 | -6.1 | 2.52 | -0.5 |
| 7.0 | -8.6 | .00 | -22.7 | -5.7 | 2.67 | -0.4 |
| 7.5 | -7.4 | .00 | -24.3 | -5.2 | 2.62 | -0.4 |
| 8.0 | -6.6 | .00 | -24.6 | -4.5 | 2.50 | -0.6 |
| 8.5 | -6.0 | .00 | -26.1 | -4.3 | 2.62 | -0.4 |
| 9.0 | -5.1 | .00 | -28.0 | -3.6 | 2.52 | -0.5 |
| 9.5 | -5.3 | .00 | -26.9 | -2.9 | 2.49 | -0.6 |
| 10.0 | -2.8 | .00 | -15.2 | -1.6 | 2.83 | -0.2 |
| 10.5 | -1.1 | .00 | -27.1 | -0.4 | 2.77 | -0.3 |
| 11.0 | 0.3 | .00 | -23.5 | 0.0 | 2.75 | -0.3 |
| 11.5 | 0.0 | .00 | -24.3 | 0.0 | 2.80 | -0.2 |
| 12.0 | -0.3 | .00 | -26.1 | -0.3 | 2.66 | -0.4 |
| 12.5 | -1.4 | .00 | -23.1 | -1.2 | 2.84 | -0.2 |
| 13.0 | -0.5 | .00 | -25.2 | -0.4 | 2.69 | -0.4 |
| 13.5 | 0.0 | .00 | -22.6 | -0.3 | 2.61 | -0.4 |
| 14.0 | -0.2 | .00 | -20.8 | -0.3 | 2.73 | -0.3 |
| 14.5 | -2.2 | .00 | -20.7 | -2.1 | 3.13 | 0.2 |
| 15.0 | -2.3 | .00 | -12.3 | -3.3 | 2.89 | 0.0 |
| 15.5 | -4.7 | .16 | -7.8 | -6.2 | 3.07 | 0.1 |
| 16.0 | -7.3 | .00 | -14.8 | -8.9 | 2.99 | 0.0 |
| 16.5 | -8.8 | .00 | -18.4 | -10.1 | 2.95 | 0.0 |
| 17.0 | -10.1 | .14 | -8.5 | -11.3 | 3.61 | 0.7 |
| 17.5 | -12.1 | .08 | -10.9 | -12.5 | 3.34 | 0.4 |
| 18.0 | -12.4 | .06 | -11.7 | -12.4 | 2.99 | 0.0 |
| 18.5 | -13.0 | .00 | -17.3 | -13.2 | 2.87 | 0.0 |
| 19.0 | -15.8 | .18 | -7.3 | -15.3 | 3.30 | 0.3 |
| 19.5 | -18.3 | .00 | -16.2 | -15.5 | 3.32 | 0.4 |
| 20.0 | -17.2 | .00 | -16.5 | -16.3 | 2.89 | 0.0 |

TSC 500C #110: FLYOVER, 130 MPH, 500FT.

| TIME | BRITISH 0.5 SEC RMS (RE: MAX) | BRITISH IMPULSE COEF | BRITISH IMPULSE COEF (DB) | FRENCH 0.5 SEC RMS (RE: MAX) | FRENCH IMPULSE COEF | FRENCH IMPULSE CORR (DB) |
|---|---|---|---|---|---|---|
| 0.5 | -20.7 | .00 | -20.3 | -18.5 | 2.95 | 0.0 |
| 1.0 | -17.8 | .00 | -19.7 | -15.8 | 3.09 | 0.1 |
| 1.5 | -18.5 | .00 | -24.8 | -16.6 | 3.23 | 0.3 |
| 2.0 | -18.1 | .00 | -18.2 | -16.8 | 3.10 | 0.1 |
| 2.5 | -13.0 | .21 | -6.7 | -14.5 | 3.47 | 0.5 |
| 3.0 | -11.8 | .14 | -8.3 | -13.9 | 3.72 | 0.8 |
| 3.5 | -14.6 | .00 | -18.1 | -13.5 | 3.40 | 0.5 |
| 4.0 | -10.2 | .00 | -19.7 | -11.8 | 3.57 | 0.7 |
| 4.5 | -9.9 | .00 | -23.4 | -11.3 | 3.39 | 0.5 |
| 5.0 | -10.9 | .00 | -24.9 | -11.3 | 3.24 | 0.3 |
| 5.5 | -10.7 | .00 | -27.7 | -10.3 | 3.22 | 0.3 |
| 6.0 | -12.8 | .00 | -21.9 | -10.8 | 2.75 | -0.3 |
| 6.5 | -14.5 | .00 | -30.1 | -10.9 | 2.86 | -0.2 |
| 7.0 | -13.1 | .00 | -22.2 | -9.9 | 2.85 | -0.2 |
| 7.5 | -13.6 | .00 | -24.2 | -9.5 | 2.66 | -0.4 |
| 8.0 | -14.3 | .00 | -24.4 | -9.1 | 2.72 | -0.3 |
| 8.5 | -14.3 | .00 | -21.1 | -9.2 | 2.75 | -0.3 |
| 9.0 | -10.5 | .00 | -18.6 | -7.7 | 2.83 | -0.2 |
| 9.5 | -8.9 | .00 | -25.0 | -7.3 | 2.95 | 0.0 |
| 10.0 | -8.6 | .00 | -27.6 | -6.9 | 2.90 | 0.0 |
| 10.5 | -7.7 | .00 | -18.6 | -6.9 | 2.89 | 0.0 |
| 11.0 | -6.8 | .00 | -25.7 | -6.1 | 2.66 | -0.4 |
| 11.5 | -7.2 | .00 | -24.4 | -5.8 | 2.67 | -0.4 |
| 12.0 | -7.1 | .00 | -22.9 | -5.3 | 2.68 | -0.4 |
| 12.5 | -5.5 | .00 | -20.8 | -4.5 | 2.65 | -0.4 |
| 13.0 | -4.5 | .00 | -23.9 | -3.9 | 2.69 | -0.4 |
| 13.5 | -4.5 | .00 | -20.9 | -3.9 | 2.72 | -0.3 |
| 14.0 | -4.6 | .00 | -25.3 | -4.1 | 2.76 | -0.3 |
| 14.5 | -4.7 | .00 | -25.8 | -3.8 | 2.74 | -0.3 |
| 15.0 | -2.9 | .00 | -23.0 | -2.5 | 2.83 | -0.2 |
| 15.5 | -2.9 | .00 | -27.4 | -2.7 | 2.66 | -0.4 |
| 16.0 | -2.4 | .00 | -20.9 | -2.5 | 2.73 | -0.3 |
| 16.5 | -2.3 | .00 | -24.3 | -1.9 | 2.63 | -0.4 |
| 17.0 | -2.0 | .00 | -22.8 | -1.8 | 2.58 | -0.5 |
| 17.5 | -1.1 | .00 | -21.1 | -1.1 | 2.73 | -0.3 |
| 18.0 | -1.4 | .00 | -22.7 | 0.0 | 2.71 | -0.3 |
| 18.5 | 0.0 | .00 | -19.7 | 0.0 | 2.92 | 0.0 |
| 19.0 | -1.0 | .00 | -15.7 | -0.9 | 2.95 | 0.0 |
| 19.5 | -2.9 | .00 | -17.9 | -3.4 | 2.75 | -0.3 |
| 20.0 | -3.8 | .00 | -16.3 | -5.0 | 2.93 | 0.0 |
| 20.5 | -6.9 | .00 | -16.1 | -8.2 | 3.17 | 0.2 |
| 21.0 | -9.0 | .00 | -15.4 | -9.8 | 2.89 | 0.0 |
| 21.5 | -9.5 | .08 | -10.5 | -11.4 | 2.91 | 0.0 |
| 22.0 | -11.0 | .00 | -14.2 | -11.7 | 2.76 | -0.3 |
| 22.5 | -12.3 | .00 | -14.9 | -12.3 | 3.12 | 0.1 |
| 23.0 | -14.4 | .00 | -14.0 | -14.2 | 2.74 | -0.3 |
| 23.5 | -14.3 | .00 | -19.7 | -14.3 | 2.77 | -0.3 |
| 24.0 | -14.4 | .00 | -14.5 | -14.2 | 3.04 | 0.1 |
| 24.5 | -16.8 | .00 | -15.7 | -14.1 | 2.98 | 0.0 |
| 25.0 | -18.3 | .00 | -17.6 | -16.2 | 2.74 | -0.3 |

TSC S-61 #16: 9 DEG APRCH, 60 KT, 400 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -13.5 | .12 | -8.9 | -12.9 | 2.49 | -0.6 |
| 1.0 | -11.1 | 1.11 | 0.5 | -13.6 | 3.04 | 0.0 |
| 1.5 | -8.9 | 1.35 | 1.3 | -12.5 | 3.58 | 0.7 |
| 2.0 | -3.6 | 25.69 | 14.1 | -9.8 | 6.47 | 4.0 |
| 2.5 | -6.8 | 15.54 | 11.9 | -11.8 | 4.78 | 2.0 |
| 3.0 | -13.4 | .48 | -3.2 | -11.0 | 2.25 | -0.8 |
| 3.5 | -13.6 | .14 | -8.3 | -11.1 | 2.71 | -0.3 |
| 4.0 | -12.4 | .00 | -12.2 | -9.7 | 2.40 | -0.7 |
| 4.5 | -11.6 | .00 | -12.3 | -9.1 | 2.46 | -0.6 |
| 5.0 | -12.6 | .07 | -11.5 | -9.1 | 2.22 | -0.9 |
| 5.5 | -12.5 | .11 | -9.6 | -10.8 | 2.62 | -0.4 |
| 6.0 | -12.5 | .00 | -16.2 | -9.6 | 2.33 | -0.8 |
| 6.5 | -13.2 | .00 | -16.9 | -8.2 | 2.13 | -1.0 |
| 7.0 | -11.7 | .07 | -11.1 | -9.8 | 2.98 | 0.0 |
| 7.5 | -11.7 | .00 | -17.0 | -7.2 | 2.13 | -1.0 |
| 8.0 | -10.5 | .00 | -18.0 | -8.7 | 2.42 | -0.7 |
| 8.5 | -10.9 | .00 | -15.6 | -8.5 | 2.36 | -0.7 |
| 9.0 | -10.4 | .00 | -12.8 | -6.7 | 2.25 | -0.9 |
| 9.5 | -8.9 | .00 | -12.3 | -6.2 | 2.05 | -1.1 |
| 10.0 | -7.4 | .11 | -9.3 | -6.8 | 2.21 | -0.9 |
| 10.5 | -6.2 | .11 | -9.4 | -6.3 | 2.42 | -0.7 |
| 11.0 | -7.4 | .29 | -5.3 | -6.1 | 2.18 | -0.9 |
| 11.5 | -7.9 | .00 | -13.6 | -5.4 | 2.06 | -1.1 |
| 12.0 | -7.4 | .00 | -15.2 | -5.3 | 1.97 | -1.2 |
| 12.5 | -6.9 | .00 | -14.9 | -4.8 | 2.07 | -1.1 |
| 13.0 | -8.0 | .00 | -20.4 | -4.5 | 1.93 | -1.2 |
| 13.5 | -8.4 | .00 | -15.4 | -3.6 | 2.01 | -1.1 |
| 14.0 | -7.5 | .00 | -17.2 | -2.0 | 1.89 | -1.3 |
| 14.5 | -6.4 | .00 | -14.5 | -1.9 | 1.86 | -1.3 |
| 15.0 | -5.1 | .00 | -16.4 | -1.1 | 1.77 | -1.4 |
| 15.5 | -4.2 | .00 | -21.3 | 0.0 | 1.77 | -1.4 |
| 16.0 | -4.0 | .00 | -12.9 | 0.0 | 1.81 | -1.4 |
| 16.5 | -2.8 | .00 | -15.8 | 0.0 | 1.95 | -1.2 |
| 17.0 | -1.3 | .09 | -10.0 | -1.8 | 2.31 | -0.8 |
| 17.5 | -0.2 | .14 | -8.5 | -3.4 | 2.20 | -0.9 |
| 18.0 | 0.0 | .08 | -10.9 | -4.5 | 2.80 | -0.2 |
| 18.5 | -0.5 | .00 | -12.7 | -6.1 | 2.95 | 0.0 |
| 19.0 | -0.5 | .00 | -14.9 | -5.2 | 2.93 | 0.0 |
| 19.5 | 0.0 | .00 | -18.3 | -4.3 | 2.54 | -0.5 |
| 20.0 | -0.5 | .00 | -14.5 | -4.3 | 2.49 | -0.6 |
| 20.5 | 0.0 | .46 | -3.3 | -3.7 | 3.81 | 0.9 |
| 21.0 | -2.8 | .00 | -12.8 | -6.2 | 2.67 | -0.4 |
| 21.5 | -4.6 | .00 | -16.7 | -8.2 | 2.67 | -0.4 |
| 22.0 | -6.7 | .00 | -17.2 | -10.0 | 2.31 | -0.8 |
| 22.5 | -7.2 | .00 | -15.1 | -10.9 | 2.49 | -0.6 |
| 23.0 | -8.9 | .00 | -14.6 | -13.0 | 3.14 | 0.2 |
| 23.5 | -11.1 | .00 | -19.1 | -13.7 | 2.70 | -0.3 |
| 24.0 | -9.9 | .00 | -21.7 | -13.8 | 3.03 | 0.0 |
| 24.5 | -10.4 | .00 | -24.0 | -14.2 | 2.75 | -0.3 |
| 25.0 | -10.8 | .00 | -19.0 | -15.1 | 2.49 | -0.6 |

TSC S-61 #16: 9 DEG APRCH, 60 KT, 400 FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -12.4 | .00 | -19.8 | -15.8 | 2.74 | -0.3 |
| 26.0 | -13.6 | .00 | -20.9 | -14.9 | 2.81 | -0.2 |
| 26.5 | -13.6 | .00 | -19.6 | -16.1 | 2.57 | -0.5 |
| 27.0 | -15.2 | .00 | -20.5 | -14.6 | 2.59 | -0.5 |
| 27.5 | -13.1 | .00 | -19.0 | -16.6 | 3.10 | 0.1 |
| 28.0 | -11.7 | .00 | -12.3 | -16.5 | 3.02 | 0.0 |
| 28.5 | -16.0 | .00 | -18.6 | -17.1 | 2.76 | -0.3 |

TSC S-61 #18: FLYOVER, 60 KT, 500FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -8.4 | 4.76 | 6.8 | -10.3 | 3.62 | 0.7 |
| 1.0 | -3.4 | 8.44 | 9.3 | -8.3 | 5.85 | 3.3 |
| 1.5 | -1.5 | 2.18 | 3.4 | -6.2 | 5.99 | 3.4 |
| 2.0 | -2.2 | 8.50 | 9.3 | -8.2 | 7.66 | 5.3 |
| 2.5 | -2.9 | 12.92 | 11.1 | -8.5 | 9.72 | 7.7 |
| 3.0 | -2.7 | 12.29 | 10.9 | -7.9 | 8.29 | 6.1 |
| 3.5 | -5.5 | 9.38 | 9.7 | -8.5 | 5.40 | 2.8 |
| 4.0 | -6.8 | 7.85 | 9.0 | -9.6 | 3.74 | 0.9 |
| 4.5 | -6.7 | 5.23 | 7.2 | -8.5 | 3.51 | 0.6 |
| 5.0 | -10.0 | .64 | -1.9 | -10.5 | 2.83 | -0.2 |
| 5.5 | -9.7 | 2.12 | 3.3 | -8.8 | 2.88 | 0.0 |
| 6.0 | -11.7 | 1.05 | 0.2 | -8.7 | 2.46 | -0.6 |
| 6.5 | -9.9 | .98 | 0.0 | -8.5 | 2.87 | 0.0 |
| 7.0 | -4.0 | 17.47 | 12.4 | -7.5 | 5.74 | 3.1 |
| 7.5 | -4.6 | 7.62 | 8.8 | -9.1 | 4.78 | 2.0 |
| 8.0 | -4.8 | 4.35 | 6.4 | -7.6 | 2.97 | 0.0 |
| 8.5 | -5.6 | 1.71 | 2.3 | -5.2 | 3.20 | 0.2 |
| 9.0 | -5.7 | 1.29 | 1.1 | -4.7 | 3.45 | 0.5 |
| 9.5 | -4.3 | .42 | -3.7 | -6.8 | 2.99 | 0.0 |
| 10.0 | -4.9 | .49 | -3.1 | -5.5 | 3.26 | 0.3 |
| 10.5 | -2.8 | 1.73 | 2.4 | -6.4 | 4.14 | 1.3 |
| 11.0 | -4.3 | .59 | -2.2 | -6.2 | 2.83 | -0.2 |
| 11.5 | -3.5 | .78 | -1.0 | -5.1 | 2.98 | 0.0 |
| 12.0 | -1.9 | .84 | -0.7 | -4.9 | 3.28 | 0.3 |
| 12.5 | -2.2 | .13 | -8.8 | -4.3 | 2.79 | -0.2 |
| 13.0 | -1.1 | .36 | -4.4 | -4.7 | 2.57 | -0.5 |
| 13.5 | -0.5 | .06 | -11.8 | -2.9 | 2.49 | -0.6 |
| 14.0 | -0.9 | .00 | -12.6 | -2.6 | 2.50 | -0.6 |
| 14.5 | 0.0 | .00 | -14.2 | -2.6 | 2.55 | -0.5 |
| 15.0 | 0.0 | .09 | -10.4 | -2.2 | 2.57 | -0.5 |
| 15.5 | -0.4 | .00 | -15.2 | -2.1 | 2.58 | -0.5 |
| 16.0 | -0.2 | .00 | -16.8 | -1.5 | 2.46 | -0.6 |
| 16.5 | -0.3 | .00 | -16.0 | -0.4 | 2.29 | -0.8 |
| 17.0 | -1.9 | .00 | -13.5 | -0.5 | 2.26 | -0.8 |
| 17.5 | -2.4 | .00 | -17.1 | 0.0 | 2.15 | -1.0 |
| 18.0 | -2.2 | .00 | -12.5 | 0.0 | 2.24 | -0.9 |
| 18.5 | -3.0 | .00 | -20.2 | -0.2 | 2.22 | -0.9 |
| 19.0 | -3.4 | .00 | -19.1 | -1.3 | 2.03 | -1.1 |
| 19.5 | -3.2 | .00 | -19.4 | -2.0 | 2.28 | -0.8 |
| 20.0 | -3.3 | .00 | -17.6 | -3.4 | 2.40 | -0.7 |
| 20.5 | -4.9 | .00 | -21.1 | -3.4 | 2.29 | -0.8 |
| 21.0 | -6.0 | .00 | -18.0 | -4.5 | 2.29 | -0.8 |
| 21.5 | -5.4 | .00 | -19.0 | -6.1 | 2.53 | -0.5 |
| 22.0 | -6.3 | .00 | -21.1 | -6.9 | 2.45 | -0.6 |
| 22.5 | -6.5 | .00 | -23.1 | -6.1 | 2.35 | -0.7 |
| 23.0 | -6.8 | .00 | -20.1 | -8.5 | 2.47 | -0.6 |
| 23.5 | -9.9 | .00 | -15.3 | -9.5 | 2.32 | -0.8 |
| 24.0 | -10.8 | .00 | -21.2 | -10.1 | 2.41 | -0.7 |
| 24.5 | -12.2 | .00 | -15.8 | -9.3 | 2.26 | -0.8 |
| 25.0 | -14.4 | .00 | -17.2 | -9.7 | 2.13 | -1.0 |

TSC S-61 #18: FLYOVER, 60 KT, 500FT

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -14.2 | .00 | -15.6 | -10.9 | 2.14 | -1.0 |
| 26.0 | -13.2 | .00 | -14.5 | -11.8 | 2.52 | -0.5 |
| 26.5 | -13.2 | .12 | -9.2 | -11.4 | 2.61 | -0.4 |
| 27.0 | -14.7 | .00 | -16.4 | -12.4 | 3.08 | 0.1 |
| 27.5 | -16.3 | .00 | -22.9 | -14.6 | 2.50 | -0.6 |
| 28.0 | -16.3 | .00 | -19.9 | -14.2 | 2.59 | -0.5 |

TSC S-61 #20: 6 DEG APRCH, 60 KT, 400 FT

| TIME | BRITISH 0.5 SEC RMS (RE: MAX) | BRITISH IMPULSE COEF | BRITISH IMPULSE COEF (DB) | FRENCH 0.5 SEC RMS (RE: MAX) | FRENCH IMPULSE COEF | FRENCH IMPULSE CORR (DB) |
|---|---|---|---|---|---|---|
| 0.5 | -9.4 | .13 | -8.6 | -6.7 | 2.41 | -0.7 |
| 1.0 | -8.8 | .51 | -2.9 | -6.8 | 2.67 | -0.4 |
| 1.5 | -8.1 | .22 | -6.4 | -5.6 | 2.46 | -0.6 |
| 2.0 | -8.6 | .00 | -12.1 | -4.2 | 2.23 | -0.9 |
| 2.5 | -9.9 | .06 | -12.0 | -4.4 | 2.23 | -0.9 |
| 3.0 | -9.0 | .06 | -11.7 | -4.7 | 2.35 | -0.7 |
| 3.5 | -9.7 | .00 | -14.7 | -3.6 | 2.16 | -1.0 |
| 4.0 | -9.4 | .06 | -11.8 | -4.3 | 2.14 | -1.0 |
| 4.5 | -7.9 | .14 | -8.5 | -4.1 | 2.14 | -1.0 |
| 5.0 | -4.4 | 3.77 | 5.8 | -3.3 | 2.34 | -0.7 |
| 5.5 | -5.0 | 1.45 | 1.6 | -3.5 | 2.49 | -0.6 |
| 6.0 | -5.0 | .08 | -10.7 | -3.3 | 2.21 | -0.9 |
| 6.5 | -3.1 | .00 | -13.1 | -2.8 | 2.25 | -0.9 |
| 7.0 | -3.3 | .00 | -14.3 | -3.4 | 2.43 | -0.7 |
| 7.5 | -3.1 | .00 | -17.4 | -3.3 | 2.88 | 0.0 |
| 8.0 | -2.9 | .00 | -18.5 | -3.6 | 2.82 | -0.2 |
| 8.5 | -2.4 | .00 | -18.2 | -3.9 | 3.33 | 0.4 |
| 9.0 | -1.7 | .19 | -7.0 | -1.7 | 3.67 | 0.8 |
| 9.5 | -1.4 | .33 | -4.7 | -1.2 | 4.19 | 1.4 |
| 10.0 | -0.5 | 1.05 | 0.2 | 0.0 | 4.38 | 1.6 |
| 10.5 | -1.3 | .58 | -2.3 | -0.8 | 4.28 | 1.5 |
| 11.0 | 0.0 | 2.60 | 4.2 | -0.3 | 5.66 | 3.0 |
| 11.5 | -2.4 | 2.76 | 4.4 | -2.3 | 5.84 | 3.3 |
| 12.0 | -2.2 | 4.86 | 6.9 | -2.6 | 6.26 | 3.7 |
| 12.5 | -5.2 | .95 | -0.2 | -5.0 | 4.25 | 1.4 |
| 13.0 | -6.1 | 2.33 | 3.7 | -6.5 | 4.86 | 2.1 |
| 13.5 | -6.5 | 4.58 | 6.6 | -7.2 | 5.25 | 2.6 |
| 14.0 | -8.0 | 3.08 | 4.9 | -8.9 | 4.14 | 1.3 |
| 14.5 | -9.3 | 4.38 | 6.4 | -10.4 | 5.88 | 3.3 |
| 15.0 | -10.5 | 2.49 | 4.0 | -11.3 | 4.30 | 1.5 |
| 15.5 | -8.8 | 4.54 | 6.6 | -11.3 | 5.95 | 3.4 |
| 16.0 | -10.6 | 2.32 | 3.7 | -12.6 | 4.36 | 1.6 |
| 16.5 | -12.9 | 2.75 | 4.4 | -13.9 | 3.79 | 0.9 |
| 17.0 | -14.4 | 1.75 | 2.4 | -14.4 | 3.21 | 0.3 |
| 17.5 | -14.9 | .47 | -3.3 | -14.4 | 3.60 | 0.7 |
| 18.0 | -15.2 | .20 | -6.9 | -15.1 | 3.42 | 0.5 |
| 18.5 | -16.2 | .10 | -9.6 | -16.3 | 3.81 | 0.9 |
| 19.0 | -17.2 | .00 | -12.5 | -16.2 | 3.96 | 1.1 |
| 19.5 | -16.7 | .45 | -3.5 | -15.4 | 3.20 | 0.2 |
| 20.0 | -18.0 | .45 | -3.4 | -16.9 | 4.14 | 1.3 |
| 20.5 | -18.2 | .47 | -3.2 | -16.9 | 4.31 | 1.5 |

TSC S-61 #34: FLYOVER, 115 KT, 500 FT

| TIME | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -11.7 | .00 | -13.4 | -6.5 | 2.46 | -0.6 |
| 1.0 | -10.6 | .00 | -13.5 | -5.5 | 2.58 | -0.5 |
| 1.5 | -11.2 | .00 | -14.9 | -6.0 | 2.55 | -0.5 |
| 2.0 | -11.5 | .00 | -24.5 | -6.9 | 2.45 | -0.6 |
| 2.5 | -7.9 | .34 | -4.6 | -5.3 | 2.51 | -0.5 |
| 3.0 | -6.4 | .06 | -11.9 | -4.7 | 2.89 | 0.0 |
| 3.5 | -8.2 | .00 | -14.5 | -5.1 | 2.79 | -0.2 |
| 4.0 | -5.3 | .08 | -10.7 | -5.6 | 3.28 | 0.3 |
| 4.5 | -3.8 | .00 | -12.2 | -4.0 | 2.97 | 0.0 |
| 5.0 | -2.7 | .07 | -11.2 | -1.9 | 2.94 | 0.0 |
| 5.5 | -1.5 | .00 | -14.6 | -0.7 | 2.75 | -0.3 |
| 6.0 | 0.0 | .00 | -14.0 | 0.0 | 3.09 | 0.1 |
| 6.5 | -2.1 | .00 | -16.2 | -0.9 | 2.83 | -0.2 |
| 7.0 | -2.7 | .00 | -15.8 | -0.6 | 2.86 | -0.2 |
| 7.5 | -2.9 | .00 | -18.8 | -0.6 | 2.61 | -0.4 |
| 8.0 | -4.4 | .12 | -9.1 | -2.4 | 2.91 | 0.0 |
| 8.5 | -4.9 | .00 | -23.6 | -2.7 | 3.18 | 0.2 |
| 9.0 | -6.2 | .00 | -13.2 | -4.4 | 3.14 | 0.2 |
| 9.5 | -8.4 | .00 | -17.8 | -6.5 | 2.89 | 0.0 |
| 10.0 | -10.8 | .00 | -16.3 | -6.5 | 2.81 | -0.2 |
| 10.5 | -11.0 | .00 | -18.9 | -6.0 | 2.85 | -0.2 |
| 11.0 | -10.6 | .00 | -18.7 | -8.3 | 2.66 | -0.4 |
| 11.5 | -12.5 | .00 | -18.9 | -10.8 | 2.72 | -0.3 |
| 12.0 | -12.1 | .00 | -20.2 | -10.5 | 3.07 | 0.1 |
| 12.5 | -11.2 | .00 | -18.2 | -8.5 | 2.78 | -0.2 |
| 13.0 | -11.7 | .00 | -21.5 | -9.3 | 3.02 | 0.0 |
| 13.5 | -14.6 | .07 | -11.4 | -9.3 | 2.70 | -0.3 |
| 14.0 | -18.4 | .30 | -5.1 | -5.4 | 3.61 | 0.7 |
| 14.5 | -20.3 | .00 | -24.7 | -5.3 | 2.33 | -0.8 |
| 15.0 | -19.5 | .00 | -21.3 | -9.0 | 2.92 | 0.0 |

TSC S-64 #50: FLYOVER, 60 KT., 500 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -16.6 | .13 | -8.9 | -10.6 | 2.80 | -0.2 |
| 1.0 | -15.6 | .31 | -5.0 | -11.4 | 2.09 | -1.0 |
| 1.5 | -15.9 | .43 | -3.7 | -10.5 | 2.56 | -0.5 |
| 2.0 | -15.8 | .47 | -3.3 | -10.2 | 2.59 | -0.5 |
| 2.5 | -15.5 | .27 | -5.6 | -10.8 | 2.61 | -0.4 |
| 3.0 | -15.7 | .29 | -5.3 | -9.9 | 2.92 | 0.0 |
| 3.5 | -16.0 | .30 | -5.2 | -10.7 | 2.14 | -1.0 |
| 4.0 | -16.3 | .10 | -9.6 | -10.6 | 2.86 | -0.2 |
| 4.5 | -16.0 | .16 | -7.7 | -10.2 | 2.23 | -0.9 |
| 5.0 | -16.1 | .17 | -7.7 | -9.8 | 2.62 | -0.4 |
| 5.5 | -13.9 | .77 | -1.1 | -8.9 | 2.56 | -0.5 |
| 6.0 | -11.7 | 1.10 | 0.4 | -8.8 | 2.17 | -0.9 |
| 6.5 | -13.4 | 1.95 | 2.9 | -7.3 | 2.37 | -0.7 |
| 7.0 | -13.8 | 1.36 | 1.4 | -8.7 | 2.36 | -0.7 |
| 7.5 | -12.5 | 1.27 | 1.0 | -7.8 | 2.15 | -1.0 |
| 8.0 | -13.6 | .63 | -2.0 | -7.4 | 2.61 | -0.4 |
| 8.5 | -12.9 | .35 | -4.5 | -7.4 | 2.38 | -0.7 |
| 9.0 | -11.7 | 1.39 | 1.4 | -7.1 | 2.11 | -1.0 |
| 9.5 | -9.3 | 2.59 | 4.1 | -6.8 | 2.35 | -0.7 |
| 10.0 | -8.5 | 2.41 | 3.8 | -5.5 | 2.22 | -0.9 |
| 10.5 | -7.8 | 5.29 | 7.2 | -5.5 | 2.17 | -0.9 |
| 11.0 | -7.0 | 2.07 | 3.2 | -4.4 | 2.60 | -0.4 |
| 11.5 | -4.5 | 2.08 | 3.2 | -3.3 | 2.54 | -0.5 |
| 12.0 | -2.6 | 2.18 | 3.4 | -2.3 | 2.58 | -0.5 |
| 12.5 | 0.0 | 2.54 | 4.1 | 0.0 | 3.40 | 0.5 |
| 13.0 | -1.1 | 2.31 | 3.6 | -0.9 | 2.61 | -0.4 |
| 13.5 | -1.2 | 3.64 | 5.6 | -1.2 | 3.76 | 0.9 |
| 14.0 | -0.2 | .89 | -0.5 | 0.0 | 2.82 | -0.2 |
| 14.5 | -2.7 | .14 | -8.5 | -2.4 | 2.74 | -0.3 |
| 15.0 | -3.4 | .14 | -8.5 | -3.7 | 2.63 | -0.4 |
| 15.5 | -3.0 | .00 | -12.1 | -3.5 | 2.59 | -0.5 |
| 16.0 | -1.2 | .00 | -15.5 | -2.0 | 2.76 | -0.3 |
| 16.5 | -0.9 | .00 | -14.7 | -2.0 | 2.58 | -0.5 |
| 17.0 | -2.0 | .00 | -14.0 | -3.1 | 2.62 | -0.4 |
| 17.5 | -2.2 | .00 | -14.6 | -4.1 | 2.83 | -0.2 |
| 18.0 | -2.6 | .00 | -19.6 | -3.9 | 2.75 | -0.3 |
| 18.5 | -3.8 | .00 | -18.8 | -3.1 | 2.50 | -0.6 |
| 19.0 | -4.2 | .00 | -20.4 | -2.3 | 2.30 | -0.8 |
| 19.5 | -5.1 | .00 | -16.8 | -3.7 | 2.16 | -0.9 |
| 20.0 | -6.6 | .00 | -18.9 | -4.1 | 2.14 | -1.0 |
| 20.5 | -7.5 | .00 | -21.6 | -4.9 | 2.28 | -0.8 |
| 21.0 | -7.9 | .00 | -21.3 | -6.0 | 2.47 | -0.6 |
| 21.5 | -7.1 | .00 | -18.0 | -6.4 | 2.34 | -0.7 |
| 22.0 | -7.5 | .00 | -20.7 | -5.7 | 2.49 | -0.6 |
| 22.5 | -7.6 | .00 | -17.7 | -7.9 | 2.53 | -0.5 |
| 23.0 | -7.1 | .00 | -19.3 | -7.5 | 2.57 | -0.5 |
| 23.5 | -8.1 | .00 | -17.4 | -8.7 | 2.99 | 0.0 |
| 24.0 | -8.1 | .00 | -18.5 | -8.5 | 2.64 | -0.4 |
| 24.5 | -8.2 | .00 | -19.7 | -9.6 | 2.75 | -0.3 |
| 25.0 | -8.2 | .00 | -21.5 | -9.6 | 2.62 | -0.4 |

TSC S-64 #50: FLYOVER, 60 KT., 500 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -9.4 | .00 | -19.2 | -10.5 | 2.64 | -0.4 |
| 26.0 | -11.0 | .00 | -22.8 | -11.1 | 2.93 | 0.0 |
| 26.5 | -11.6 | .00 | -21.2 | -11.5 | 2.63 | -0.4 |
| 27.0 | -12.3 | .00 | -18.4 | -12.4 | 2.86 | 0.0 |
| 27.5 | -12.9 | .00 | -17.0 | -12.7 | 3.17 | 0.2 |
| 28.0 | -14.1 | .00 | -13.1 | -15.1 | 2.51 | -0.6 |
| 28.5 | -16.9 | .00 | -17.1 | -14.3 | 2.55 | -0.5 |
| 29.0 | -18.3 | .00 | -19.6 | -16.4 | 2.67 | -0.4 |
| 29.5 | -18.8 | .00 | -20.3 | -14.6 | 2.41 | -0.7 |
| 30.0 | -20.2 | .00 | -21.7 | -16.0 | 2.46 | -0.6 |
| 30.5 | -19.7 | .00 | -26.0 | -15.7 | 2.62 | -0.4 |

TSC S-64 #51: 6 DEG APRCH. 60 KT, 400 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -19.4 | .08 | -10.6 | -14.0 | 2.70 | -0.3 |
| 1.0 | -19.4 | .00 | -14.1 | -13.8 | 2.81 | -0.2 |
| 1.5 | -19.2 | .00 | -14.1 | -13.9 | 2.82 | -0.2 |
| 2.0 | -18.7 | .00 | -16.7 | -13.9 | 2.97 | 0.0 |
| 2.5 | -18.4 | .00 | -13.6 | -12.7 | 2.50 | -0.6 |
| 3.0 | -18.0 | .00 | -12.4 | -11.7 | 2.76 | -0.3 |
| 3.5 | -17.1 | .07 | -11.1 | -13.0 | 2.62 | -0.4 |
| 4.0 | -16.4 | .16 | -7.9 | -9.8 | 2.51 | -0.6 |
| 4.5 | -16.9 | .15 | -8.1 | -11.6 | 3.30 | 0.4 |
| 5.0 | -17.7 | .20 | -6.8 | -11.5 | 3.11 | 0.1 |
| 5.5 | -18.2 | .19 | -7.2 | -12.2 | 2.70 | -0.3 |
| 6.0 | -18.4 | .09 | -10.0 | -12.8 | 2.38 | -0.7 |
| 6.5 | -18.2 | .22 | -6.4 | -11.7 | 2.64 | -0.4 |
| 7.0 | -15.9 | .90 | -0.4 | -10.2 | 2.59 | -0.5 |
| 7.5 | -15.4 | 1.03 | 0.1 | -10.2 | 2.43 | -0.6 |
| 8.0 | -13.9 | 1.17 | 0.7 | -9.9 | 2.18 | -0.9 |
| 8.5 | -13.0 | 1.23 | 0.9 | -8.9 | 2.68 | -0.4 |
| 9.0 | -11.8 | 1.14 | 0.6 | -8.9 | 2.58 | -0.5 |
| 9.5 | -10.4 | 1.44 | 1.6 | -7.9 | 2.41 | -0.7 |
| 10.0 | -9.1 | 1.10 | 0.4 | -7.6 | 2.69 | -0.4 |
| 10.5 | -7.9 | 2.12 | 3.3 | -7.4 | 2.45 | -0.6 |
| 11.0 | -6.4 | 3.33 | 5.2 | -5.7 | 2.64 | -0.4 |
| 11.5 | -5.7 | 2.93 | 4.7 | -5.5 | 2.49 | -0.6 |
| 12.0 | -5.8 | 6.24 | 8.0 | -4.8 | 2.33 | -0.8 |
| 12.5 | -7.2 | 4.38 | 6.4 | -4.7 | 2.30 | -0.8 |
| 13.0 | -6.6 | 2.21 | 3.5 | -4.0 | 2.36 | -0.7 |
| 13.5 | -4.3 | 1.65 | 2.2 | -3.1 | 2.16 | -1.0 |
| 14.0 | -2.2 | 2.78 | 4.4 | -1.9 | 2.48 | -0.6 |
| 14.5 | -1.5 | 1.68 | 2.3 | -1.2 | 2.76 | -0.3 |
| 15.0 | -0.8 | 2.54 | 4.0 | -0.3 | 2.80 | -0.2 |
| 15.5 | -0.7 | 1.41 | 1.5 | -1.0 | 3.08 | 0.1 |
| 16.0 | 0.0 | .73 | -1.4 | 0.0 | 2.78 | -0.2 |
| 16.5 | -0.7 | .50 | -3.0 | -0.7 | 2.80 | -0.2 |
| 17.0 | -1.0 | .28 | -5.4 | -0.7 | 2.94 | 0.0 |
| 17.5 | -0.8 | .22 | -6.5 | -1.3 | 2.92 | 0.0 |
| 18.0 | -1.5 | .14 | -8.4 | -0.9 | 2.74 | -0.3 |
| 18.5 | -1.9 | .00 | -14.4 | -0.7 | 2.64 | -0.4 |
| 19.0 | -3.1 | .00 | -12.8 | -0.7 | 2.40 | -0.7 |
| 19.5 | -3.4 | .08 | -10.8 | -0.8 | 2.31 | -0.8 |
| 20.0 | -5.1 | .25 | -5.9 | -0.7 | 2.17 | -0.9 |
| 20.5 | -6.3 | .20 | -6.9 | -2.7 | 2.09 | -1.0 |
| 21.0 | -6.4 | .39 | -4.1 | -4.0 | 2.22 | -0.9 |
| 21.5 | -6.6 | .53 | -2.7 | -4.4 | 2.56 | -0.5 |
| 22.0 | -5.7 | 1.87 | 2.7 | -4.8 | 2.45 | -0.6 |
| 22.5 | -5.9 | 1.53 | 1.9 | -6.0 | 2.42 | -0.7 |
| 23.0 | -7.1 | .64 | -1.9 | -7.3 | 2.47 | -0.6 |
| 23.5 | -9.3 | .50 | -3.0 | -8.9 | 2.51 | -0.6 |
| 24.0 | -9.1 | .27 | -5.6 | -8.6 | 2.54 | -0.5 |
| 24.5 | -9.7 | .31 | -5.1 | -10.2 | 2.90 | 0.0 |
| 25.0 | -13.2 | .32 | -4.9 | -10.1 | 2.40 | -0.7 |

TSC S-64 #51: 6 DEG APRCH. 60 KT, 400 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 25.5 | -14.9 | .06 | -11.8 | -12.0 | 2.32 | -0.8 |
| 26.0 | -14.9 | .18 | -7.4 | -12.1 | 2.56 | -0.5 |
| 26.5 | -15.0 | .00 | -15.0 | -13.8 | 2.72 | -0.3 |
| 27.0 | -14.5 | .00 | -18.7 | -12.9 | 2.96 | 0.0 |
| 27.5 | -16.0 | .00 | -22.8 | -13.4 | 2.52 | -0.5 |
| 28.0 | -16.0 | .00 | -13.1 | -13.7 | 3.02 | 0.0 |
| 28.5 | -15.5 | .16 | -7.9 | -13.4 | 2.80 | -0.2 |
| 29.0 | -15.4 | .70 | -1.5 | -14.1 | 2.88 | 0.0 |

TSC S-64 #67: FLYOVER 95 KT., 500 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -8.6 | .00 | -18.7 | -2.8 | 1.92 | -1.2 |
| 1.0 | -8.7 | .00 | -16.8 | -1.2 | 1.92 | -1.2 |
| 1.5 | -6.1 | .00 | -13.2 | -0.5 | 2.03 | -1.1 |
| 2.0 | -3.3 | .00 | -18.2 | 0.0 | 2.01 | -1.1 |
| 2.5 | -2.9 | .00 | -16.5 | -0.6 | 2.18 | -0.9 |
| 3.0 | -1.1 | .00 | -16.5 | -1.4 | 2.48 | -0.6 |
| 3.5 | -0.8 | .00 | -16.4 | -2.6 | 2.53 | -0.5 |
| 4.0 | 0.0 | .00 | -18.4 | -4.0 | 2.66 | -0.4 |
| 4.5 | -0.5 | .00 | -21.4 | -4.8 | 2.85 | -0.2 |
| 5.0 | -1.3 | .00 | -15.9 | -5.5 | 2.99 | 0.0 |
| 5.5 | -3.1 | .00 | -13.0 | -6.1 | 2.75 | -0.3 |
| 6.0 | -4.4 | .00 | -14.9 | -8.3 | 2.66 | -0.4 |
| 6.5 | -5.5 | .00 | -18.9 | -9.8 | 2.86 | 0.0 |
| 7.0 | -7.3 | .00 | -15.7 | -10.6 | 2.70 | -0.3 |
| 7.5 | -7.4 | .00 | -19.7 | -10.8 | 2.91 | 0.0 |
| 8.0 | -6.6 | .00 | -20.8 | -10.9 | 2.89 | 0.0 |
| 8.5 | -6.9 | .00 | -17.0 | -12.3 | 2.71 | -0.3 |
| 9.0 | -8.9 | .00 | -17.1 | -11.7 | 2.66 | -0.4 |
| 9.5 | -9.9 | .00 | -20.3 | -12.7 | 3.19 | 0.2 |
| 10.0 | -9.9 | .00 | -20.3 | -12.0 | 3.00 | 0.0 |
| 10.5 | -10.5 | .00 | -19.3 | -13.4 | 3.05 | 0.1 |
| 11.0 | -11.6 | .00 | -22.1 | -13.9 | 2.71 | -0.3 |
| 11.5 | -13.4 | .00 | -19.9 | -14.4 | 2.89 | 0.0 |
| 12.0 | -14.0 | .00 | -22.9 | -14.6 | 2.66 | -0.4 |
| 12.5 | -14.5 | .00 | -25.2 | -14.7 | 3.11 | 0.1 |
| 13.0 | -13.8 | .00 | -20.1 | -14.5 | 2.67 | -0.4 |
| 13.5 | -13.6 | .00 | -17.0 | -14.1 | 2.87 | 0.0 |

TSC S-64 #74: 6 DEG. APRCH., 60 KT., 400 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -4.9 | .46 | -3.4 | -7.5 | 2.81 | -0.2 |
| 1.0 | -4.9 | .21 | -6.6 | -6.7 | 2.14 | -1.0 |
| 1.5 | -7.0 | .09 | -10.3 | -6.1 | 2.70 | -0.3 |
| 2.0 | -8.3 | .62 | -2.0 | -5.8 | 1.82 | -1.3 |
| 2.5 | -9.0 | .24 | -6.0 | -5.5 | 2.30 | -0.8 |
| 3.0 | -8.6 | .41 | -3.8 | -5.3 | 2.05 | -1.1 |
| 3.5 | -7.0 | .24 | -6.2 | -5.4 | 2.52 | -0.5 |
| 4.0 | -6.3 | .84 | -0.7 | -4.8 | 2.19 | -0.9 |
| 4.5 | -6.6 | .34 | -4.7 | -4.7 | 2.52 | -0.5 |
| 5.0 | -5.9 | .29 | -5.3 | -4.0 | 2.28 | -0.8 |
| 5.5 | -5.2 | .62 | -2.0 | -3.8 | 2.15 | -1.0 |
| 6.0 | -4.0 | .56 | -2.5 | -3.0 | 2.45 | -0.6 |
| 6.5 | -2.2 | .79 | -1.0 | -2.5 | 2.55 | -0.5 |
| 7.0 | -1.2 | 1.09 | 0.4 | -1.9 | 2.26 | -0.8 |
| 7.5 | 0.0 | .78 | -1.1 | -0.9 | 2.12 | -1.0 |
| 8.0 | -0.9 | .27 | -5.5 | -1.0 | 2.00 | -1.1 |
| 8.5 | -1.2 | .34 | -4.6 | -0.6 | 1.92 | -1.2 |
| 9.0 | -0.5 | .29 | -5.3 | 0.0 | 2.01 | -1.1 |
| 9.5 | 0.0 | .29 | -5.4 | 0.0 | 2.43 | -0.6 |
| 10.0 | -0.5 | .14 | -8.3 | -1.1 | 2.64 | -0.4 |
| 10.5 | -1.3 | .06 | -12.0 | -1.8 | 3.14 | 0.2 |
| 11.0 | -1.4 | .00 | -12.8 | -3.4 | 3.29 | 0.3 |
| 11.5 | -1.8 | .00 | -18.1 | -3.6 | 3.01 | 0.0 |
| 12.0 | -2.5 | .00 | -14.1 | -4.1 | 2.82 | -0.2 |
| 12.5 | -1.7 | .00 | -15.6 | -4.2 | 2.73 | -0.3 |
| 13.0 | -1.2 | .17 | -7.6 | -3.9 | 2.98 | 0.0 |
| 13.5 | -1.5 | .10 | -9.7 | -4.4 | 3.04 | 0.0 |
| 14.0 | -2.1 | .10 | -9.6 | -5.3 | 3.00 | 0.0 |
| 14.5 | -4.0 | .00 | -13.7 | -6.0 | 2.55 | -0.5 |
| 15.0 | -5.5 | .00 | -16.0 | -7.1 | 2.40 | -0.7 |
| 15.5 | -6.1 | .39 | -4.0 | -7.7 | 2.69 | -0.3 |
| 16.0 | -5.8 | 3.48 | 5.4 | -7.7 | 3.08 | 0.1 |
| 16.5 | -6.4 | 3.48 | 5.4 | -8.5 | 2.81 | -0.2 |
| 17.0 | -7.7 | .30 | -5.1 | -10.1 | 2.29 | -0.8 |
| 17.5 | -10.0 | .21 | -6.6 | -10.8 | 2.77 | -0.3 |
| 18.0 | -12.6 | .00 | -15.9 | -12.0 | 2.34 | -0.7 |
| 18.5 | -12.6 | .00 | -18.1 | -12.0 | 2.87 | 0.0 |
| 19.0 | -11.7 | .06 | -12.0 | -12.3 | 2.67 | -0.4 |
| 19.5 | -10.6 | .56 | -2.5 | -12.7 | 2.96 | 0.0 |
| 20.0 | -10.8 | .00 | -13.9 | -13.5 | 3.03 | 0.0 |
| 20.5 | -12.0 | .08 | -10.8 | -13.9 | 2.91 | 0.0 |

TSC S-64 #78: FLYOVER, 95 KT., 500 FT.

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -6.4 | .22 | -6.5 | -3.9 | 2.41 | -0.7 |
| 1.0 | -0.6 | .43 | -3.6 | -2.5 | 2.23 | -0.9 |
| 1.5 | -1.8 | .09 | -10.4 | -2.2 | 2.47 | -0.6 |
| 2.0 | -1.4 | .00 | -13.8 | -2.0 | 2.18 | -0.9 |
| 2.5 | -0.3 | .08 | -10.7 | -1.2 | 2.39 | -0.7 |
| 3.0 | 0.0 | .00 | -16.1 | -0.5 | 2.32 | -0.8 |
| 3.5 | -0.5 | .00 | -17.7 | 0.0 | 2.46 | -0.6 |
| 4.0 | -1.6 | .00 | -17.5 | -1.0 | 2.28 | -0.8 |
| 4.5 | -2.2 | .00 | -17.7 | -3.3 | 2.45 | -0.6 |
| 5.0 | -3.0 | .00 | -17.7 | -6.1 | 2.57 | -0.5 |
| 5.5 | -3.7 | .00 | -21.8 | -8.7 | 2.93 | 0.0 |
| 6.0 | -5.1 | .00 | -17.1 | -12.9 | 2.90 | 0.0 |
| 6.5 | -6.6 | .00 | -18.3 | -12.8 | 3.06 | 0.1 |
| 7.0 | -7.2 | .00 | -19.9 | -12.5 | 2.81 | -0.2 |
| 7.5 | -8.3 | .00 | -22.9 | -13.4 | 2.70 | -0.3 |
| 8.0 | -9.0 | .00 | -18.9 | -13.5 | 2.99 | 0.0 |
| 8.5 | -9.3 | .00 | -20.2 | -13.6 | 2.74 | -0.3 |
| 9.0 | -10.4 | .00 | -12.4 | -14.7 | 3.00 | 0.0 |
| 9.5 | -12.4 | .00 | -18.8 | -14.9 | 2.97 | 0.0 |
| 10.0 | -11.0 | .00 | -17.1 | -14.4 | 3.01 | 0.0 |
| 10.5 | -10.9 | .00 | -17.0 | -15.0 | 2.75 | -0.3 |
| 11.0 | -11.9 | .13 | -8.5 | -16.2 | 2.69 | -0.4 |
| 11.5 | -14.6 | .00 | -19.1 | -17.0 | 2.80 | -0.2 |
| 12.0 | -13.7 | .00 | -13.0 | -16.9 | 3.30 | 0.3 |
| 12.5 | -18.0 | .00 | -16.4 | -19.4 | 2.71 | -0.3 |
| 13.0 | -20.0 | .00 | -20.5 | -19.3 | 3.20 | 0.2 |

TSC CH-47C #12: 6 DEG. APRCH., 60 KT., 400 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 89.3 | 25.5 | 98.3 | 50.5 | 106.8 | | |
| 1.0 | 84.1 | 26.0 | 88.3 | 51.0 | 107.7 | | |
| 1.5 | 87.6 | 26.5 | 88.8 | 51.5 | 107.3 | | |
| 2.0 | 89.3 | 27.0 | 91.4 | 52.0 | 105.6 | | |
| 2.5 | 97.6 | 27.5 | 89.3 | | | | |
| 3.0 | 91.5 | 28.0 | 90.2 | | | | |
| 3.5 | 90.7 | 28.5 | 93.4 | | | | |
| 4.0 | 90.2 | 29.0 | 93.7 | | | | |
| 4.5 | 92.0 | 29.5 | 94.3 | | | | |
| 5.0 | 92.2 | 30.0 | 93.0 | | | | |
| 5.5 | 90.9 | 30.5 | 98.0 | | | | |
| 6.0 | 92.0 | 31.0 | 96.6 | | | | |
| 6.5 | 93.3 | 31.5 | 96.3 | | | | |
| 7.0 | 98.8 | 32.0 | 97.3 | | | | |
| 7.5 | 97.6 | 32.5 | 98.3 | | | | |
| 8.0 | 98.0 | 33.0 | 98.1 | | | | |
| 8.5 | 97.6 | 33.5 | 98.1 | | | | |
| 9.0 | 97.5 | 34.0 | 98.3 | | | | |
| 9.5 | 92.2 | 34.5 | 97.8 | | | | |
| 10.0 | 97.5 | 35.0 | 102.2 | | | | |
| 10.5 | 97.5 | 35.5 | 100.9 | | | | |
| 11.0 | 91.8 | 36.0 | 102.3 | | | | |
| 11.5 | 90.2 | 36.5 | 102.7 | | | | |
| 12.0 | 90.6 | 37.0 | 101.5 | | | | |
| 12.5 | 88.0 | 37.5 | 101.5 | | | | |
| 13.0 | 88.3 | 38.0 | 103.8 | | | | |
| 13.5 | 91.8 | 38.5 | 104.3 | | | | |
| 14.0 | 91.2 | 39.0 | 103.8 | | | | |
| 14.5 | 98.3 | 39.5 | 103.3 | | | | |
| 15.0 | 98.8 | 40.0 | 106.0 | | | | |
| 15.5 | 90.2 | 40.5 | 112.3 | | | | |
| 16.0 | 90.9 | 41.0 | 110.9 | | | | |
| 16.5 | 89.3 | 41.5 | 105.4 | | | | |
| 17.0 | 91.5 | 42.0 | 101.8 | | | | |
| 17.5 | 92.1 | 42.5 | 103.4 | | | | |
| 18.0 | 88.3 | 43.0 | 106.0 | | | | |
| 18.5 | 88.9 | 43.5 | 108.6 | | | | |
| 19.0 | 90.2 | 44.0 | 107.1 | | | | |
| 19.5 | 90.9 | 44.5 | 108.7 | | | | |
| 20.0 | 96.5 | 45.0 | 107.6 | | | | |
| 20.5 | 100.6 | 45.5 | 110.8 | | | | |
| 21.0 | 99.4 | 46.0 | 110.3 | | | | |
| 21.5 | 96.2 | 46.5 | 105.4 | | | | |
| 22.0 | 98.0 | 47.0 | 106.8 | | | | |
| 22.5 | 98.3 | 47.5 | 109.5 | | | | |
| 23.0 | 90.2 | 48.0 | 108.9 | | | | |
| 23.5 | 90.2 | 48.5 | 111.1 | | | | |
| 24.0 | 92.0 | 49.0 | 110.5 | | | | |
| 24.5 | 91.2 | 49.5 | 109.7 | | | | |
| 25.0 | 90.9 | 50.0 | 110.3 | | | | |

TSC CH-47C #18: FLYOVER, 60 KT., 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 88.0 | 25.5 | 102.0 | | | | |
| 1.0 | 98.8 | 26.0 | 100.2 | | | | |
| 1.5 | 97.5 | 26.5 | 97.1 | | | | |
| 2.0 | 93.5 | 27.0 | 103.0 | | | | |
| 2.5 | 93.4 | 27.5 | 103.8 | | | | |
| 3.0 | 97.3 | 28.0 | 104.7 | | | | |
| 3.5 | 94.5 | 28.5 | 103.1 | | | | |
| 4.0 | 99.6 | 29.0 | 105.6 | | | | |
| 4.5 | 101.4 | 29.5 | 102.6 | | | | |
| 5.0 | 103.0 | 30.0 | 102.0 | | | | |
| 5.5 | 101.8 | 30.5 | 103.9 | | | | |
| 6.0 | 104.8 | 31.0 | 102.4 | | | | |
| 6.5 | 106.1 | 31.5 | 103.8 | | | | |
| 7.0 | 103.2 | 32.0 | 104.3 | | | | |
| 7.5 | 104.1 | 32.5 | 101.2 | | | | |
| 8.0 | 104.1 | 33.0 | 99.2 | | | | |
| 8.5 | 104.4 | 33.5 | 105.6 | | | | |
| 9.0 | 102.4 | 34.0 | 108.7 | | | | |
| 9.5 | 99.5 | 34.5 | 101.4 | | | | |
| 10.0 | 98.1 | 35.0 | 102.7 | | | | |
| 10.5 | 99.3 | 35.5 | 104.8 | | | | |
| 11.0 | 97.0 | 36.0 | 107.3 | | | | |
| 11.5 | 94.8 | 36.5 | 107.0 | | | | |
| 12.0 | 99.3 | 37.0 | 108.6 | | | | |
| 12.5 | 101.2 | 37.5 | 109.9 | | | | |
| 13.0 | 99.3 | 38.0 | 108.5 | | | | |
| 13.5 | 96.5 | 38.5 | 106.1 | | | | |
| 14.0 | 94.6 | 39.0 | 110.3 | | | | |
| 14.5 | 94.5 | 39.5 | 113.3 | | | | |
| 15.0 | 95.2 | 40.0 | 105.4 | | | | |
| 15.5 | 100.0 | 40.5 | 106.9 | | | | |
| 16.0 | 96.3 | 41.0 | 112.3 | | | | |
| 16.5 | 99.8 | 41.5 | 110.0 | | | | |
| 17.0 | 102.0 | 42.0 | 105.2 | | | | |
| 17.5 | 105.8 | 42.5 | 103.3 | | | | |
| 18.0 | 104.3 | 43.0 | 104.3 | | | | |
| 18.5 | 106.1 | 43.5 | 101.8 | | | | |
| 19.0 | 104.3 | 44.0 | 101.4 | | | | |
| 19.5 | 100.2 | 44.5 | 101.5 | | | | |
| 20.0 | 98.8 | 45.0 | 100.8 | | | | |
| 20.5 | 98.8 | 45.5 | 100.9 | | | | |
| 21.0 | 108.2 | 46.0 | 98.4 | | | | |
| 21.5 | 110.3 | 46.5 | 99.3 | | | | |
| 22.0 | 103.3 | 47.0 | 100.2 | | | | |
| 22.5 | 104.0 | 47.5 | 98.0 | | | | |
| 23.0 | 99.3 | 48.0 | 99.3 | | | | |
| 23.5 | 97.5 | 48.5 | 98.3 | | | | |
| 24.0 | 102.7 | 49.0 | 92.7 | | | | |
| 24.5 | 101.9 | 49.5 | 92.7 | | | | |
| 25.0 | 103.8 | | | | | | |

TSC CH-47C #20: 9 DEG. APRCH., 60 KT., 400 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 98.3 | 25.5 | 109.4 | | | | |
| 1.0 | 98.3 | 26.0 | 108.9 | | | | |
| 1.5 | 93.0 | 26.5 | 109.5 | | | | |
| 2.0 | 91.1 | 27.0 | 110.4 | | | | |
| 2.5 | 91.2 | 27.5 | 110.3 | | | | |
| 3.0 | 90.9 | 28.0 | 110.4 | | | | |
| 3.5 | 86.6 | 28.5 | 108.0 | | | | |
| 4.0 | 89.4 | 29.0 | 104.5 | | | | |
| 4.5 | 92.2 | 29.5 | 104.3 | | | | |
| 5.0 | 91.8 | 30.0 | 103.5 | | | | |
| 5.5 | 90.0 | 30.5 | 105.1 | | | | |
| 6.0 | 92.0 | 31.0 | 102.1 | | | | |
| 6.5 | 98.0 | 31.5 | 103.4 | | | | |
| 7.0 | 93.3 | 32.0 | 101.8 | | | | |
| 7.5 | 97.6 | 32.5 | 98.3 | | | | |
| 8.0 | 99.3 | 33.0 | 98.0 | | | | |
| 8.5 | 98.8 | 33.5 | 97.6 | | | | |
| 9.0 | 98.8 | 34.0 | 96.9 | | | | |
| 9.5 | 95.0 | 34.5 | 96.8 | | | | |
| 10.0 | 96.6 | 35.0 | 99.3 | | | | |
| 10.5 | 98.3 | 35.5 | 98.1 | | | | |
| 11.0 | 97.6 | 36.0 | 92.7 | | | | |
| 11.5 | 96.3 | 36.5 | 97.3 | | | | |
| 12.0 | 98.0 | 37.0 | 91.8 | | | | |
| 12.5 | 100.2 | 37.5 | 90.6 | | | | |
| 13.0 | 98.3 | 38.0 | 88.8 | | | | |
| 13.5 | 99.3 | 38.5 | 87.5 | | | | |
| 14.0 | 101.2 | | | | | | |
| 14.5 | 102.1 | | | | | | |
| 15.0 | 102.3 | | | | | | |
| 15.5 | 101.2 | | | | | | |
| 16.0 | 99.7 | | | | | | |
| 16.5 | 102.7 | | | | | | |
| 17.0 | 103.4 | | | | | | |
| 17.5 | 100.6 | | | | | | |
| 18.0 | 101.2 | | | | | | |
| 18.5 | 102.1 | | | | | | |
| 19.0 | 100.6 | | | | | | |
| 19.5 | 102.7 | | | | | | |
| 20.0 | 103.3 | | | | | | |
| 20.5 | 103.0 | | | | | | |
| 21.0 | 103.3 | | | | | | |
| 21.5 | 103.5 | | | | | | |
| 22.0 | 102.3 | | | | | | |
| 22.5 | 104.3 | | | | | | |
| 23.0 | 106.3 | | | | | | |
| 23.5 | 105.5 | | | | | | |
| 24.0 | 107.8 | | | | | | |
| 24.5 | 107.6 | | | | | | |
| 25.0 | 107.6 | | | | | | |

TSC CH-47C #23: FLYOVER, 100 KT., 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 88.0 | 25.5 | 92.2 | | | | |
| 1.0 | 83.5 | 26.0 | 92.7 | | | | |
| 1.5 | 83.8 | 26.5 | 94.4 | | | | |
| 2.0 | 84.5 | 27.0 | 93.1 | | | | |
| 2.5 | 90.2 | 27.5 | 96.0 | | | | |
| 3.0 | 88.8 | 28.0 | 94.4 | | | | |
| 3.5 | 86.0 | 28.5 | 94.7 | | | | |
| 4.0 | 85.8 | 29.0 | 93.3 | | | | |
| 4.5 | 86.2 | 29.5 | 94.8 | | | | |
| 5.0 | 89.8 | 30.0 | 94.5 | | | | |
| 5.5 | 88.8 | 30.5 | 94.8 | | | | |
| 6.0 | 86.6 | 31.0 | 97.8 | | | | |
| 6.5 | 89.3 | 31.5 | 95.3 | | | | |
| 7.0 | 86.5 | 32.0 | 95.0 | | | | |
| 7.5 | 88.3 | 32.5 | 95.6 | | | | |
| 8.0 | 88.1 | 33.0 | 95.4 | | | | |
| 8.5 | 84.5 | 33.5 | 95.2 | | | | |
| 9.0 | 88.3 | 34.0 | 96.3 | | | | |
| 9.5 | 84.3 | 34.5 | 99.4 | | | | |
| 10.0 | 85.9 | 35.0 | 96.9 | | | | |
| 10.5 | 88.3 | 35.5 | 96.7 | | | | |
| 11.0 | 86.3 | 36.0 | 99.0 | | | | |
| 11.5 | 88.3 | 36.5 | 98.5 | | | | |
| 12.0 | 90.6 | 37.0 | 96.3 | | | | |
| 12.5 | 88.8 | 37.5 | 95.2 | | | | |
| 13.0 | 89.7 | 38.0 | 93.0 | | | | |
| 13.5 | 88.5 | 38.5 | 93.6 | | | | |
| 14.0 | 89.1 | 39.0 | 93.3 | | | | |
| 14.5 | 91.5 | 39.5 | 93.0 | | | | |
| 15.0 | 90.9 | 40.0 | 92.4 | | | | |
| 15.5 | 91.8 | 40.5 | 91.2 | | | | |
| 16.0 | 92.0 | 41.0 | 89.7 | | | | |
| 16.5 | 91.8 | 41.5 | 88.3 | | | | |
| 17.0 | 92.1 | 42.0 | 88.1 | | | | |
| 17.5 | 91.0 | 42.5 | 89.4 | | | | |
| 18.0 | 92.1 | 43.0 | 90.6 | | | | |
| 18.5 | 92.7 | 43.5 | 90.2 | | | | |
| 19.0 | 90.2 | 44.0 | 87.3 | | | | |
| 19.5 | 91.5 | 44.5 | 90.0 | | | | |
| 20.0 | 90.2 | 45.0 | 91.0 | | | | |
| 20.5 | 89.3 | 45.5 | 89.3 | | | | |
| 21.0 | 92.0 | 46.0 | 83.8 | | | | |
| 21.5 | 90.9 | 46.5 | 85.0 | | | | |
| 22.0 | 92.1 | | | | | | |
| 22.5 | 95.8 | | | | | | |
| 23.0 | 92.4 | | | | | | |
| 23.5 | 90.7 | | | | | | |
| 24.0 | 92.0 | | | | | | |
| 24.5 | 90.9 | | | | | | |
| 25.0 | 93.3 | | | | | | |

TSC CH-47C #24: FLYOVER, 141 KT., 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 87.5 | 25.5 | 98.2 | | | | |
| 1.0 | 84.3 | 26.0 | 99.0 | | | | |
| 1.5 | 83.7 | 26.5 | 97.6 | | | | |
| 2.0 | 84.3 | 27.0 | 99.5 | | | | |
| 2.5 | 84.5 | 27.5 | 100.5 | | | | |
| 3.0 | 88.0 | 28.0 | 102.5 | | | | |
| 3.5 | 83.7 | 28.5 | 101.1 | | | | |
| 4.0 | 84.3 | 29.0 | 100.8 | | | | |
| 4.5 | 85.2 | 29.5 | 101.8 | | | | |
| 5.0 | 88.3 | 30.0 | 101.0 | | | | |
| 5.5 | 85.1 | 30.5 | 98.4 | | | | |
| 6.0 | 85.1 | 31.0 | 99.5 | | | | |
| 6.5 | 89.4 | 31.5 | 97.0 | | | | |
| 7.0 | 85.9 | 32.0 | 95.5 | | | | |
| 7.5 | 90.6 | 32.5 | 93.7 | | | | |
| 8.0 | 88.2 | 33.0 | 92.4 | | | | |
| 8.5 | 88.4 | 33.5 | 91.5 | | | | |
| 9.0 | 89.4 | 34.0 | 91.4 | | | | |
| 9.5 | 88.7 | 34.5 | 89.3 | | | | |
| 10.0 | 91.0 | 35.0 | 89.7 | | | | |
| 10.5 | 89.7 | 35.5 | 88.8 | | | | |
| 11.0 | 91.4 | 36.0 | 88.8 | | | | |
| 11.5 | 90.7 | | | | | | |
| 12.0 | 93.3 | | | | | | |
| 12.5 | 96.1 | | | | | | |
| 13.0 | 99.4 | | | | | | |
| 13.5 | 103.9 | | | | | | |
| 14.0 | 103.7 | | | | | | |
| 14.5 | 105.3 | | | | | | |
| 15.0 | 105.4 | | | | | | |
| 15.5 | 106.6 | | | | | | |
| 16.0 | 107.1 | | | | | | |
| 16.5 | 107.2 | | | | | | |
| 17.0 | 107.4 | | | | | | |
| 17.5 | 106.7 | | | | | | |
| 18.0 | 104.2 | | | | | | |
| 18.5 | 102.5 | | | | | | |
| 19.0 | 101.6 | | | | | | |
| 19.5 | 102.3 | | | | | | |
| 20.0 | 100.0 | | | | | | |
| 20.5 | 99.2 | | | | | | |
| 21.0 | 100.2 | | | | | | |
| 21.5 | 101.0 | | | | | | |
| 22.0 | 101.9 | | | | | | |
| 22.5 | 101.2 | | | | | | |
| 23.0 | 101.3 | | | | | | |
| 23.5 | 101.6 | | | | | | |
| 24.0 | 100.7 | | | | | | |
| 24.5 | 99.8 | | | | | | |
| 25.0 | 99.5 | | | | | | |

TSC CH-47C #27: FLYOVER, 141 KT., 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 84.0 | 25.5 | 92.3 | | | | |
| 1.0 | 84.8 | 26.0 | 97.5 | | | | |
| 1.5 | 83.8 | | | | | | |
| 2.0 | 88.3 | | | | | | |
| 2.5 | 85.3 | | | | | | |
| 3.0 | 90.1 | | | | | | |
| 3.5 | 89.4 | | | | | | |
| 4.0 | 86.8 | | | | | | |
| 4.5 | 88.3 | | | | | | |
| 5.0 | 91.2 | | | | | | |
| 5.5 | 90.2 | | | | | | |
| 6.0 | 97.5 | | | | | | |
| 6.5 | 99.3 | | | | | | |
| 7.0 | 99.4 | | | | | | |
| 7.5 | 98.3 | | | | | | |
| 8.0 | 98.3 | | | | | | |
| 8.5 | 99.3 | | | | | | |
| 9.0 | 102.4 | | | | | | |
| 9.5 | 106.6 | | | | | | |
| 10.0 | 115.1 | | | | | | |
| 10.5 | 114.3 | | | | | | |
| 11.0 | 114.3 | | | | | | |
| 11.5 | 111.0 | | | | | | |
| 12.0 | 115.1 | | | | | | |
| 12.5 | 107.3 | | | | | | |
| 13.0 | 115.0 | | | | | | |
| 13.5 | 115.4 | | | | | | |
| 14.0 | 114.6 | | | | | | |
| 14.5 | 112.5 | | | | | | |
| 15.0 | 112.9 | | | | | | |
| 15.5 | 104.8 | | | | | | |
| 16.0 | 102.8 | | | | | | |
| 16.5 | 106.9 | | | | | | |
| 17.0 | 103.7 | | | | | | |
| 17.5 | 103.1 | | | | | | |
| 18.0 | 104.5 | | | | | | |
| 18.5 | 106.3 | | | | | | |
| 19.0 | 102.0 | | | | | | |
| 19.5 | 102.7 | | | | | | |
| 20.0 | 104.1 | | | | | | |
| 20.5 | 102.8 | | | | | | |
| 21.0 | 103.8 | | | | | | |
| 21.5 | 101.8 | | | | | | |
| 22.0 | 102.1 | | | | | | |
| 22.5 | 99.3 | | | | | | |
| 23.0 | 95.9 | | | | | | |
| 23.5 | 93.6 | | | | | | |
| 24.0 | 97.5 | | | | | | |
| 24.5 | 92.7 | | | | | | |
| 25.0 | 97.5 | | | | | | |

TSC CH-47C #28: FLYOVER 150 KT., 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 89.3 | | | | | | |
| 1.0 | 88.3 | | | | | | |
| 1.5 | 86.9 | | | | | | |
| 2.0 | 87.6 | | | | | | |
| 2.5 | 88.2 | | | | | | |
| 3.0 | 89.7 | | | | | | |
| 3.5 | 91.8 | | | | | | |
| 4.0 | 93.7 | | | | | | |
| 4.5 | 94.8 | | | | | | |
| 5.0 | 100.2 | | | | | | |
| 5.5 | 104.4 | | | | | | |
| 6.0 | 107.3 | | | | | | |
| 6.5 | 107.0 | | | | | | |
| 7.0 | 110.0 | | | | | | |
| 7.5 | 114.5 | | | | | | |
| 8.0 | 114.9 | | | | | | |
| 8.5 | 111.8 | | | | | | |
| 9.0 | 111.3 | | | | | | |
| 9.5 | 111.9 | | | | | | |
| 10.0 | 112.8 | | | | | | |
| 10.5 | 110.3 | | | | | | |
| 11.0 | 110.6 | | | | | | |
| 11.5 | 113.5 | | | | | | |
| 12.0 | 108.7 | | | | | | |
| 12.5 | 107.0 | | | | | | |
| 13.0 | 103.5 | | | | | | |
| 13.5 | 104.4 | | | | | | |
| 14.0 | 104.1 | | | | | | |
| 14.5 | 106.1 | | | | | | |
| 15.0 | 104.8 | | | | | | |
| 15.5 | 103.7 | | | | | | |
| 16.0 | 103.7 | | | | | | |
| 16.5 | 102.1 | | | | | | |
| 17.0 | 103.7 | | | | | | |
| 17.5 | 101.1 | | | | | | |
| 18.0 | 102.4 | | | | | | |
| 18.5 | 97.4 | | | | | | |
| 19.0 | 96.3 | | | | | | |
| 19.5 | 98.0 | | | | | | |
| 20.0 | 95.8 | | | | | | |
| 20.5 | 92.1 | | | | | | |
| 21.0 | 93.7 | | | | | | |
| 21.5 | 102.0 | | | | | | |
| 22.0 | 98.8 | | | | | | |
| 22.5 | 88.8 | | | | | | |
| 23.0 | 101.5 | | | | | | |
| 23.5 | 101.3 | | | | | | |
| 24.0 | 88.7 | | | | | | |

TSC CH-47C #29: FLYOVER, 150 KT., 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 90.2 | 25.5 | 94.0 | | | | |
| 1.0 | 90.2 | 26.0 | 94.8 | | | | |
| 1.5 | 90.2 | 26.5 | 98.3 | | | | |
| 2.0 | 87.6 | 27.0 | 102.7 | | | | |
| 2.5 | 89.3 | 27.5 | 98.3 | | | | |
| 3.0 | 87.6 | 28.0 | 101.5 | | | | |
| 3.5 | 89.7 | 28.5 | 99.3 | | | | |
| 4.0 | 88.7 | 29.0 | 97.3 | | | | |
| 4.5 | 89.3 | | | | | | |
| 5.0 | 88.4 | | | | | | |
| 5.5 | 88.3 | | | | | | |
| 6.0 | 89.3 | | | | | | |
| 6.5 | 91.8 | | | | | | |
| 7.0 | 91.0 | | | | | | |
| 7.5 | 98.0 | | | | | | |
| 8.0 | 98.4 | | | | | | |
| 8.5 | 101.5 | | | | | | |
| 9.0 | 99.3 | | | | | | |
| 9.5 | 102.7 | | | | | | |
| 10.0 | 106.9 | | | | | | |
| 10.5 | 109.3 | | | | | | |
| 11.0 | 107.6 | | | | | | |
| 11.5 | 109.2 | | | | | | |
| 12.0 | 114.6 | | | | | | |
| 12.5 | 117.5 | | | | | | |
| 13.0 | 115.4 | | | | | | |
| 13.5 | 116.7 | | | | | | |
| 14.0 | 117.6 | | | | | | |
| 14.5 | 116.9 | | | | | | |
| 15.0 | 115.2 | | | | | | |
| 15.5 | 119.7 | | | | | | |
| 16.0 | 114.8 | | | | | | |
| 16.5 | 116.9 | | | | | | |
| 17.0 | 111.0 | | | | | | |
| 17.5 | 106.8 | | | | | | |
| 18.0 | 105.8 | | | | | | |
| 18.5 | 103.7 | | | | | | |
| 19.0 | 103.0 | | | | | | |
| 19.5 | 105.4 | | | | | | |
| 20.0 | 106.6 | | | | | | |
| 20.5 | 106.3 | | | | | | |
| 21.0 | 103.5 | | | | | | |
| 21.5 | 105.5 | | | | | | |
| 22.0 | 103.7 | | | | | | |
| 22.5 | 101.8 | | | | | | |
| 23.0 | 105.5 | | | | | | |
| 23.5 | 97.7 | | | | | | |
| 24.0 | 99.4 | | | | | | |
| 24.5 | 98.3 | | | | | | |
| 25.0 | 99.4 | | | | | | |

TSC CH-47C #35: 3 DEG. APRDH., 60 KT., 400 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 97.4 | 25.5 | 104.1 | | | | |
| 1.0 | 97.1 | 26.0 | 105.9 | | | | |
| 1.5 | 95.0 | 26.5 | 104.6 | | | | |
| 2.0 | 95.6 | 27.0 | 107.4 | | | | |
| 2.5 | 94.3 | 27.5 | 107.1 | | | | |
| 3.0 | 94.3 | 28.0 | 113.7 | | | | |
| 3.5 | 97.6 | 28.5 | 116.2 | | | | |
| 4.0 | 97.3 | 29.0 | 112.7 | | | | |
| 4.5 | 91.8 | 29.5 | 114.0 | | | | |
| 5.0 | 90.2 | 30.0 | 116.3 | | | | |
| 5.5 | 97.5 | 30.5 | 106.9 | | | | |
| 6.0 | 89.8 | 31.0 | 109.5 | | | | |
| 6.5 | 90.2 | 31.5 | 114.8 | | | | |
| 7.0 | 90.6 | 32.0 | 112.3 | | | | |
| 7.5 | 89.4 | 32.5 | 108.1 | | | | |
| 8.0 | 91.6 | 33.0 | 109.7 | | | | |
| 8.5 | 97.5 | 33.5 | 107.7 | | | | |
| 9.0 | 90.0 | 34.0 | 104.8 | | | | |
| 9.5 | 89.3 | 34.5 | 102.7 | | | | |
| 10.0 | 92.2 | 35.0 | 108.1 | | | | |
| 10.5 | 92.7 | 35.5 | 107.7 | | | | |
| 11.0 | 98.3 | 36.0 | 109.2 | | | | |
| 11.5 | 90.3 | 36.5 | 106.6 | | | | |
| 12.0 | 97.6 | 37.0 | 101.8 | | | | |
| 12.5 | 90.3 | 37.5 | 104.3 | | | | |
| 13.0 | 94.8 | 38.0 | 101.5 | | | | |
| 13.5 | 99.3 | 38.5 | 100.9 | | | | |
| 14.0 | 101.2 | 39.0 | 101.2 | | | | |
| 14.5 | 98.1 | 39.5 | 100.6 | | | | |
| 15.0 | 93.3 | 40.0 | 99.3 | | | | |
| 15.5 | 96.5 | 40.5 | 90.2 | | | | |
| 16.0 | 98.3 | 41.0 | 98.0 | | | | |
| 16.5 | 95.9 | 41.5 | 93.0 | | | | |
| 17.0 | 100.3 | 42.0 | 98.0 | | | | |
| 17.5 | 99.8 | 42.5 | 88.3 | | | | |
| 18.0 | 100.6 | 43.0 | 90.6 | | | | |
| 18.5 | 100.0 | 43.5 | 88.8 | | | | |
| 19.0 | 100.6 | 44.0 | 88.0 | | | | |
| 19.5 | 102.0 | | | | | | |
| 20.0 | 100.2 | | | | | | |
| 20.5 | 106.4 | | | | | | |
| 21.0 | 107.7 | | | | | | |
| 21.5 | 98.6 | | | | | | |
| 22.0 | 101.4 | | | | | | |
| 22.5 | 104.8 | | | | | | |
| 23.0 | 103.8 | | | | | | |
| 23.5 | 106.3 | | | | | | |
| 24.0 | 103.7 | | | | | | |
| 24.5 | 102.0 | | | | | | |
| 25.0 | 104.5 | | | | | | |

TSC BELL 212 #24: 6 DEG. APRCH., 55 KT., 380 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 89.1 | 25.5 | 96.8 | 50.5 | 92.2 | | |
| 1.0 | 89.4 | 26.0 | 97.3 | 51.0 | 94.3 | | |
| 1.5 | 86.4 | 26.5 | 95.6 | 51.5 | 94.7 | | |
| 2.0 | 89.5 | 27.0 | 92.8 | 52.0 | 92.1 | | |
| 2.5 | 84.3 | 27.5 | 93.6 | 52.5 | 93.8 | | |
| 3.0 | 82.0 | 28.0 | 91.8 | | | | |
| 3.5 | 82.3 | 28.5 | 90.6 | | | | |
| 4.0 | 82.2 | 29.0 | 92.2 | | | | |
| 4.5 | 83.1 | 29.5 | 92.5 | | | | |
| 5.0 | 80.7 | 30.0 | 97.4 | | | | |
| 5.5 | 83.0 | 30.5 | 99.7 | | | | |
| 6.0 | 88.3 | 31.0 | 97.3 | | | | |
| 6.5 | 83.8 | 31.5 | 93.0 | | | | |
| 7.0 | 88.8 | 32.0 | 95.6 | | | | |
| 7.5 | 85.4 | 32.5 | 97.1 | | | | |
| 8.0 | 88.8 | 33.0 | 99.4 | | | | |
| 8.5 | 82.5 | 33.5 | 96.6 | | | | |
| 9.0 | 86.5 | 34.0 | 96.0 | | | | |
| 9.5 | 90.9 | 34.5 | 100.5 | | | | |
| 10.0 | 92.1 | 35.0 | 100.8 | | | | |
| 10.5 | 90.3 | 35.5 | 97.6 | | | | |
| 11.0 | 89.8 | 36.0 | 99.7 | | | | |
| 11.5 | 88.2 | 36.5 | 101.2 | | | | |
| 12.0 | 88.1 | 37.0 | 100.4 | | | | |
| 12.5 | 90.9 | 37.5 | 105.0 | | | | |
| 13.0 | 90.6 | 38.0 | 97.4 | | | | |
| 13.5 | 88.8 | 38.5 | 100.0 | | | | |
| 14.0 | 86.3 | 39.0 | 103.1 | | | | |
| 14.5 | 88.8 | 39.5 | 101.3 | | | | |
| 15.0 | 89.8 | 40.0 | 97.0 | | | | |
| 15.5 | 89.8 | 40.5 | 97.0 | | | | |
| 16.0 | 92.3 | 41.0 | 94.8 | | | | |
| 16.5 | 94.3 | 41.5 | 98.3 | | | | |
| 17.0 | 92.0 | 42.0 | 99.5 | | | | |
| 17.5 | 90.2 | 42.5 | 96.9 | | | | |
| 18.0 | 90.2 | 43.0 | 99.5 | | | | |
| 18.5 | 91.8 | 43.5 | 97.3 | | | | |
| 19.0 | 91.5 | 44.0 | 96.9 | | | | |
| 19.5 | 90.6 | 44.5 | 94.3 | | | | |
| 20.0 | 92.1 | 45.0 | 94.8 | | | | |
| 20.5 | 92.7 | 45.5 | 93.8 | | | | |
| 21.0 | 94.3 | 46.0 | 95.2 | | | | |
| 21.5 | 94.1 | 46.5 | 93.8 | | | | |
| 22.0 | 94.5 | 47.0 | 98.7 | | | | |
| 22.5 | 98.1 | 47.5 | 94.4 | | | | |
| 23.0 | 96.8 | 48.0 | 94.8 | | | | |
| 23.5 | 92.5 | 48.5 | 91.9 | | | | |
| 24.0 | 94.1 | 49.0 | 94.5 | | | | |
| 24.5 | 95.6 | 49.5 | 93.7 | | | | |
| 25.0 | 97.0 | 50.0 | 93.0 | | | | |

TSC BELL 212 #27: 9 DEG. APRCH., 58 KT., 420 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 91.2 | 25.5 | 99.7 | | | | |
| 1.0 | 88.7 | 26.0 | 101.7 | | | | |
| 1.5 | 84.8 | 26.5 | 98.1 | | | | |
| 2.0 | 79.4 | 27.0 | 98.9 | | | | |
| 2.5 | 83.1 | 27.5 | 99.1 | | | | |
| 3.0 | 83.8 | 28.0 | 99.0 | | | | |
| 3.5 | 88.4 | 28.5 | 97.6 | | | | |
| 4.0 | 88.7 | 29.0 | 95.9 | | | | |
| 4.5 | 90.2 | 29.5 | 95.6 | | | | |
| 5.0 | 91.5 | 30.0 | 96.3 | | | | |
| 5.5 | 93.8 | 30.5 | 94.1 | | | | |
| 6.0 | 91.8 | 31.0 | 96.0 | | | | |
| 6.5 | 94.3 | 31.5 | 93.8 | | | | |
| 7.0 | 95.2 | 32.0 | 95.2 | | | | |
| 7.5 | 95.2 | 32.5 | 95.0 | | | | |
| 8.0 | 94.4 | 33.0 | 95.2 | | | | |
| 8.5 | 93.7 | 33.5 | 92.7 | | | | |
| 9.0 | 92.2 | 34.0 | 97.5 | | | | |
| 9.5 | 92.4 | 34.5 | 96.8 | | | | |
| 10.0 | 92.7 | 35.0 | 96.6 | | | | |
| 10.5 | 95.6 | 35.5 | 96.5 | | | | |
| 11.0 | 94.1 | 36.0 | 97.3 | | | | |
| 11.5 | 94.4 | 36.5 | 97.3 | | | | |
| 12.0 | 96.9 | 37.0 | 97.0 | | | | |
| 12.5 | 96.8 | 37.5 | 96.3 | | | | |
| 13.0 | 97.6 | 38.0 | 95.3 | | | | |
| 13.5 | 96.1 | 38.5 | 92.7 | | | | |
| 14.0 | 96.2 | 39.0 | 93.8 | | | | |
| 14.5 | 95.8 | 39.5 | 94.1 | | | | |
| 15.0 | 95.2 | 40.0 | 92.1 | | | | |
| 15.5 | 94.1 | 40.5 | 87.6 | | | | |
| 16.0 | 96.0 | 41.0 | 91.8 | | | | |
| 16.5 | 99.2 | 41.5 | 95.5 | | | | |
| 17.0 | 98.6 | 42.0 | 92.5 | | | | |
| 17.5 | 99.2 | 42.5 | 88.1 | | | | |
| 18.0 | 97.0 | 43.0 | 88.3 | | | | |
| 18.5 | 97.6 | 43.5 | 89.5 | | | | |
| 19.0 | 96.9 | 44.0 | 91.5 | | | | |
| 19.5 | 98.0 | 44.5 | 88.0 | | | | |
| 20.0 | 98.9 | | | | | | |
| 20.5 | 97.7 | | | | | | |
| 21.0 | 97.7 | | | | | | |
| 21.5 | 96.8 | | | | | | |
| 22.0 | 98.0 | | | | | | |
| 22.5 | 98.2 | | | | | | |
| 23.0 | 97.9 | | | | | | |
| 23.5 | 99.0 | | | | | | |
| 24.0 | 99.7 | | | | | | |
| 24.5 | 100.4 | | | | | | |
| 25.0 | 100.2 | | | | | | |

TSC BELL 212 #31: FLYOVER, 61 KT., 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 87.6 | 25.5 | 85.8 | | | | |
| 1.0 | 89.1 | 26.0 | 88.1 | | | | |
| 1.5 | 98.4 | 26.5 | 86.8 | | | | |
| 2.0 | 84.8 | 27.0 | 88.0 | | | | |
| 2.5 | 85.0 | 27.5 | 88.0 | | | | |
| 3.0 | 82.5 | 28.0 | 88.3 | | | | |
| 3.5 | 86.0 | 28.5 | 86.3 | | | | |
| 4.0 | 87.4 | 29.0 | 88.2 | | | | |
| 4.5 | 91.1 | 29.5 | 88.1 | | | | |
| 5.0 | 93.9 | 30.0 | 84.3 | | | | |
| 5.5 | 91.3 | 30.5 | 86.1 | | | | |
| 6.0 | 90.5 | 31.0 | 84.4 | | | | |
| 6.5 | 91.1 | 31.5 | 84.3 | | | | |
| 7.0 | 92.6 | 32.0 | 83.3 | | | | |
| 7.5 | 94.9 | 32.5 | 83.5 | | | | |
| 8.0 | 97.4 | 33.0 | 83.7 | | | | |
| 8.5 | 94.1 | 33.5 | 82.0 | | | | |
| 9.0 | 97.5 | 34.0 | 81.5 | | | | |
| 9.5 | 96.9 | 34.5 | 84.1 | | | | |
| 10.0 | 98.1 | 35.0 | 82.7 | | | | |
| 10.5 | 96.3 | 35.5 | 80.8 | | | | |
| 11.0 | 96.6 | 36.0 | 82.1 | | | | |
| 11.5 | 94.3 | 36.5 | 83.0 | | | | |
| 12.0 | 91.1 | 37.0 | 81.2 | | | | |
| 12.5 | 90.6 | 37.5 | 85.3 | | | | |
| 13.0 | 91.7 | 38.0 | 78.3 | | | | |
| 13.5 | 94.7 | 38.5 | 72.3 | | | | |
| 14.0 | 93.9 | 39.0 | 75.0 | | | | |
| 14.5 | 93.0 | 39.5 | 77.3 | | | | |
| 15.0 | 94.9 | | | | | | |
| 15.5 | 92.5 | | | | | | |
| 16.0 | 94.4 | | | | | | |
| 16.5 | 94.2 | | | | | | |
| 17.0 | 94.2 | | | | | | |
| 17.5 | 91.9 | | | | | | |
| 18.0 | 92.3 | | | | | | |
| 18.5 | 92.1 | | | | | | |
| 19.0 | 92.6 | | | | | | |
| 19.5 | 94.9 | | | | | | |
| 20.0 | 93.4 | | | | | | |
| 20.5 | 91.1 | | | | | | |
| 21.0 | 92.9 | | | | | | |
| 21.5 | 91.3 | | | | | | |
| 22.0 | 93.5 | | | | | | |
| 22.5 | 93.7 | | | | | | |
| 23.0 | 90.6 | | | | | | |
| 23.5 | 90.9 | | | | | | |
| 24.0 | 90.8 | | | | | | |
| 24.5 | 88.3 | | | | | | |
| 25.0 | 88.9 | | | | | | |

TSC BELL 212 #32: FLYOVER , 96 KT., 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 89.5 | | | | | | |
| 1.0 | 90.3 | | | | | | |
| 1.5 | 89.9 | | | | | | |
| 2.0 | 89.5 | | | | | | |
| 2.5 | 88.7 | | | | | | |
| 3.0 | 91.0 | | | | | | |
| 3.5 | 91.4 | | | | | | |
| 4.0 | 92.7 | | | | | | |
| 4.5 | 96.5 | | | | | | |
| 5.0 | 99.6 | | | | | | |
| 5.5 | 100.1 | | | | | | |
| 6.0 | 101.2 | | | | | | |
| 6.5 | 99.9 | | | | | | |
| 7.0 | 97.1 | | | | | | |
| 7.5 | 98.1 | | | | | | |
| 8.0 | 98.9 | | | | | | |
| 8.5 | 98.6 | | | | | | |
| 9.0 | 97.4 | | | | | | |
| 9.5 | 95.5 | | | | | | |
| 10.0 | 92.7 | | | | | | |
| 10.5 | 93.1 | | | | | | |
| 11.0 | 91.1 | | | | | | |
| 11.5 | 88.9 | | | | | | |
| 12.0 | 87.0 | | | | | | |
| 12.5 | 88.7 | | | | | | |
| 13.0 | 87.3 | | | | | | |
| 13.5 | 87.4 | | | | | | |
| 14.0 | 87.6 | | | | | | |
| 14.5 | 87.6 | | | | | | |
| 15.0 | 86.5 | | | | | | |
| 15.5 | 86.1 | | | | | | |
| 16.0 | 86.0 | | | | | | |
| 16.5 | 86.0 | | | | | | |
| 17.0 | 82.7 | | | | | | |
| 17.5 | 80.2 | | | | | | |
| 18.0 | 79.5 | | | | | | |
| 18.5 | 81.8 | | | | | | |
| 19.0 | 83.7 | | | | | | |
| 19.5 | 78.7 | | | | | | |
| 20.0 | 79.3 | | | | | | |
| 20.5 | 82.1 | | | | | | |
| 21.0 | 79.5 | | | | | | |

TSC BELL 212 #36: FLYOVER, 105 KT., 450 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 92.3 | 25.5 | 81.8 | | | | |
| 1.0 | 93.9 | 26.0 | 81.4 | | | | |
| 1.5 | 94.9 | 26.5 | 82.0 | | | | |
| 2.0 | 95.1 | | | | | | |
| 2.5 | 94.0 | | | | | | |
| 3.0 | 91.3 | | | | | | |
| 3.5 | 91.6 | | | | | | |
| 4.0 | 91.7 | | | | | | |
| 4.5 | 92.8 | | | | | | |
| 5.0 | 92.3 | | | | | | |
| 5.5 | 90.9 | | | | | | |
| 6.0 | 91.8 | | | | | | |
| 6.5 | 93.8 | | | | | | |
| 7.0 | 93.5 | | | | | | |
| 7.5 | 94.0 | | | | | | |
| 8.0 | 92.8 | | | | | | |
| 8.5 | 93.4 | | | | | | |
| 9.0 | 93.2 | | | | | | |
| 9.5 | 92.1 | | | | | | |
| 10.0 | 92.8 | | | | | | |
| 10.5 | 94.0 | | | | | | |
| 11.0 | 94.6 | | | | | | |
| 11.5 | 99.4 | | | | | | |
| 12.0 | 98.9 | | | | | | |
| 12.5 | 98.2 | | | | | | |
| 13.0 | 92.6 | | | | | | |
| 13.5 | 94.5 | | | | | | |
| 14.0 | 94.7 | | | | | | |
| 14.5 | 98.5 | | | | | | |
| 15.0 | 101.6 | | | | | | |
| 15.5 | 96.6 | | | | | | |
| 16.0 | 98.3 | | | | | | |
| 16.5 | 96.2 | | | | | | |
| 17.0 | 95.9 | | | | | | |
| 17.5 | 94.1 | | | | | | |
| 18.0 | 91.7 | | | | | | |
| 18.5 | 90.7 | | | | | | |
| 19.0 | 88.7 | | | | | | |
| 19.5 | 90.6 | | | | | | |
| 20.0 | 89.5 | | | | | | |
| 20.5 | 89.6 | | | | | | |
| 21.0 | 89.6 | | | | | | |
| 21.5 | 89.4 | | | | | | |
| 22.0 | 93.7 | | | | | | |
| 22.5 | 89.4 | | | | | | |
| 23.0 | 92.7 | | | | | | |
| 23.5 | 83.3 | | | | | | |
| 24.0 | 87.3 | | | | | | |
| 24.5 | 89.6 | | | | | | |
| 25.0 | 90.2 | | | | | | |

TSC BELL 212 #37: FLYOVER , 115 KT., 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 85.9 | | | | | | |
| 1.0 | 93.0 | | | | | | |
| 1.5 | 94.5 | | | | | | |
| 2.0 | 95.6 | | | | | | |
| 2.5 | 96.3 | | | | | | |
| 3.0 | 100.3 | | | | | | |
| 3.5 | 101.3 | | | | | | |
| 4.0 | 101.5 | | | | | | |
| 4.5 | 96.9 | | | | | | |
| 5.0 | 96.7 | | | | | | |
| 5.5 | 96.8 | | | | | | |
| 6.0 | 97.0 | | | | | | |
| 6.5 | 97.3 | | | | | | |
| 7.0 | 97.3 | | | | | | |
| 7.5 | 99.4 | | | | | | |
| 8.0 | 95.8 | | | | | | |
| 8.5 | 98.0 | | | | | | |
| 9.0 | 98.4 | | | | | | |
| 9.5 | 98.5 | | | | | | |
| 10.0 | 98.7 | | | | | | |
| 10.5 | 103.8 | | | | | | |
| 11.0 | 103.5 | | | | | | |
| 11.5 | 106.7 | | | | | | |
| 12.0 | 99.8 | | | | | | |
| 12.5 | 103.3 | | | | | | |
| 13.0 | 99.2 | | | | | | |
| 13.5 | 98.9 | | | | | | |
| 14.0 | 99.4 | | | | | | |
| 14.5 | 100.0 | | | | | | |
| 15.0 | 100.3 | | | | | | |
| 15.5 | 99.5 | | | | | | |
| 16.0 | 93.0 | | | | | | |
| 16.5 | 93.6 | | | | | | |
| 17.0 | 89.7 | | | | | | |
| 17.5 | 89.8 | | | | | | |
| 18.0 | 91.5 | | | | | | |
| 18.5 | 88.1 | | | | | | |
| 19.0 | 88.4 | | | | | | |
| 19.5 | 90.2 | | | | | | |
| 20.0 | 85.9 | | | | | | |
| 20.5 | 85.2 | | | | | | |
| 21.0 | 87.3 | | | | | | |
| 21.5 | 89.3 | | | | | | |
| 22.0 | 87.6 | | | | | | |
| 22.5 | 85.0 | | | | | | |
| 23.0 | 81.3 | | | | | | |

TSC BELL 212 #43. 3 DEG. APRCH., 60 KT., 410 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 89.5 | 25.5 | 91.9 | | | | |
| 1.0 | 89.5 | 26.0 | 90.8 | | | | |
| 1.5 | 86.0 | 26.5 | 92.1 | | | | |
| 2.0 | 91.0 | 27.0 | 91.5 | | | | |
| 2.5 | 92.0 | 27.5 | 91.0 | | | | |
| 3.0 | 95.2 | 28.0 | 89.3 | | | | |
| 3.5 | 94.3 | 28.5 | 91.8 | | | | |
| 4.0 | 95.0 | 29.0 | 89.7 | | | | |
| 4.5 | 95.8 | 29.5 | 92.1 | | | | |
| 5.0 | 96.6 | 30.0 | 88.3 | | | | |
| 5.5 | 93.1 | 30.5 | 91.5 | | | | |
| 6.0 | 95.1 | 31.0 | 93.0 | | | | |
| 6.5 | 95.1 | 31.5 | 89.5 | | | | |
| 7.0 | 97.1 | 32.0 | 88.4 | | | | |
| 7.5 | 100.3 | 32.5 | 88.1 | | | | |
| 8.0 | 96.6 | 33.0 | 88.1 | | | | |
| 8.5 | 98.3 | 33.5 | 82.1 | | | | |
| 9.0 | 95.6 | | | | | | |
| 9.5 | 93.6 | | | | | | |
| 10.0 | 96.7 | | | | | | |
| 10.5 | 94.7 | | | | | | |
| 11.0 | 94.3 | | | | | | |
| 11.5 | 101.3 | | | | | | |
| 12.0 | 102.3 | | | | | | |
| 12.5 | 97.3 | | | | | | |
| 13.0 | 102.0 | | | | | | |
| 13.5 | 97.6 | | | | | | |
| 14.0 | 101.3 | | | | | | |
| 14.5 | 98.1 | | | | | | |
| 15.0 | 100.0 | | | | | | |
| 15.5 | 99.4 | | | | | | |
| 16.0 | 104.3 | | | | | | |
| 16.5 | 103.5 | | | | | | |
| 17.0 | 102.3 | | | | | | |
| 17.5 | 99.9 | | | | | | |
| 18.0 | 101.3 | | | | | | |
| 18.5 | 97.0 | | | | | | |
| 19.0 | 98.9 | | | | | | |
| 19.5 | 96.6 | | | | | | |
| 20.0 | 96.3 | | | | | | |
| 20.5 | 92.7 | | | | | | |
| 21.0 | 93.6 | | | | | | |
| 21.5 | 94.5 | | | | | | |
| 22.0 | 94.3 | | | | | | |
| 22.5 | 93.0 | | | | | | |
| 23.0 | 91.5 | | | | | | |
| 23.5 | 92.4 | | | | | | |
| 24.0 | 91.8 | | | | | | |
| 24.5 | 89.5 | | | | | | |
| 25.0 | 89.3 | | | | | | |

TSC 300C #34: FLYOVER, 75 MPH, 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 81.8 | 25.5 | 78.2 | | | | |
| 1.0 | 69.5 | 26.0 | 78.0 | | | | |
| 1.5 | 67.7 | 26.5 | 76.9 | | | | |
| 2.0 | 67.3 | 27.0 | 76.0 | | | | |
| 2.5 | 69.4 | 27.5 | 74.9 | | | | |
| 3.0 | 66.5 | 28.0 | 74.9 | | | | |
| 3.5 | 69.0 | 28.5 | 73.7 | | | | |
| 4.0 | 69.7 | 29.0 | 82.0 | | | | |
| 4.5 | 71.8 | 29.5 | 72.5 | | | | |
| 5.0 | 70.3 | 30.0 | 75.1 | | | | |
| 5.5 | 67.2 | 30.5 | 69.4 | | | | |
| 6.0 | 62.0 | 31.0 | 70.3 | | | | |
| 6.5 | 66.2 | 31.5 | 68.8 | | | | |
| 7.0 | 63.8 | 32.0 | 70.1 | | | | |
| 7.5 | 65.2 | | | | | | |
| 8.0 | 67.3 | | | | | | |
| 8.5 | 70.5 | | | | | | |
| 9.0 | 68.8 | | | | | | |
| 9.5 | 72.6 | | | | | | |
| 10.0 | 70.8 | | | | | | |
| 10.5 | 70.2 | | | | | | |
| 11.0 | 71.1 | | | | | | |
| 11.5 | 68.8 | | | | | | |
| 12.0 | 68.5 | | | | | | |
| 12.5 | 71.1 | | | | | | |
| 13.0 | 75.7 | | | | | | |
| 13.5 | 74.1 | | | | | | |
| 14.0 | 74.7 | | | | | | |
| 14.5 | 73.7 | | | | | | |
| 15.0 | 73.5 | | | | | | |
| 15.5 | 75.8 | | | | | | |
| 16.0 | 77.5 | | | | | | |
| 16.5 | 78.5 | | | | | | |
| 17.0 | 77.6 | | | | | | |
| 17.5 | 78.2 | | | | | | |
| 18.0 | 80.6 | | | | | | |
| 18.5 | 81.4 | | | | | | |
| 19.0 | 80.9 | | | | | | |
| 19.5 | 79.7 | | | | | | |
| 20.0 | 81.1 | | | | | | |
| 20.5 | 81.0 | | | | | | |
| 21.0 | 77.6 | | | | | | |
| 21.5 | 81.2 | | | | | | |
| 22.0 | 79.0 | | | | | | |
| 22.5 | 77.4 | | | | | | |
| 23.0 | 78.8 | | | | | | |
| 23.5 | 77.9 | | | | | | |
| 24.0 | 81.8 | | | | | | |
| 24.5 | 79.2 | | | | | | |
| 25.0 | 76.6 | | | | | | |

TSC 300C #44. 6 DEG. APRCH., 60 MPH, 400 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 77.8 | 25.5 | 68.5 | | | | |
| 1.0 | 75.9 | 26.0 | 65.8 | | | | |
| 1.5 | 77.2 | 26.5 | 70.0 | | | | |
| 2.0 | 72.5 | 27.0 | 72.2 | | | | |
| 2.5 | 72.3 | 27.5 | 68.9 | | | | |
| 3.0 | 71.1 | 28.0 | 64.3 | | | | |
| 3.5 | 70.0 | 28.5 | 66.6 | | | | |
| 4.0 | 68.6 | | | | | | |
| 4.5 | 70.6 | | | | | | |
| 5.0 | 72.6 | | | | | | |
| 5.5 | 77.0 | | | | | | |
| 6.0 | 75.4 | | | | | | |
| 6.5 | 71.6 | | | | | | |
| 7.0 | 72.8 | | | | | | |
| 7.5 | 76.0 | | | | | | |
| 8.0 | 76.7 | | | | | | |
| 8.5 | 87.2 | | | | | | |
| 9.0 | 82.8 | | | | | | |
| 9.5 | 78.0 | | | | | | |
| 10.0 | 79.1 | | | | | | |
| 10.5 | 75.3 | | | | | | |
| 11.0 | 77.9 | | | | | | |
| 11.5 | 77.0 | | | | | | |
| 12.0 | 78.0 | | | | | | |
| 12.5 | 77.9 | | | | | | |
| 13.0 | 79.8 | | | | | | |
| 13.5 | 88.6 | | | | | | |
| 14.0 | 84.6 | | | | | | |
| 14.5 | 84.7 | | | | | | |
| 15.0 | 79.7 | | | | | | |
| 15.5 | 79.7 | | | | | | |
| 16.0 | 81.6 | | | | | | |
| 16.5 | 78.3 | | | | | | |
| 17.0 | 80.2 | | | | | | |
| 17.5 | 76.1 | | | | | | |
| 18.0 | 75.3 | | | | | | |
| 18.5 | 74.1 | | | | | | |
| 19.0 | 74.0 | | | | | | |
| 19.5 | 72.8 | | | | | | |
| 20.0 | 71.8 | | | | | | |
| 20.5 | 69.7 | | | | | | |
| 21.0 | 75.3 | | | | | | |
| 21.5 | 65.7 | | | | | | |
| 22.0 | 69.6 | | | | | | |
| 22.5 | 68.8 | | | | | | |
| 23.0 | 66.5 | | | | | | |
| 23.5 | 69.6 | | | | | | |
| 24.0 | 68.3 | | | | | | |
| 24.5 | 69.6 | | | | | | |
| 25.0 | 70.2 | | | | | | |

TSC BELL 206L #46: 6 DEG APRCH , 70 MPH, 400 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 68.0 | 25.5 | 84.4 | | | | |
| 1.0 | 75.5 | 26.0 | 86.3 | | | | |
| 1.5 | 69.1 | 26.5 | 84.8 | | | | |
| 2.0 | 69.0 | 27.0 | 84.2 | | | | |
| 2.5 | 65.7 | 27.5 | 83.7 | | | | |
| 3.0 | 66.8 | 28.0 | 82.8 | | | | |
| 3.5 | 69.7 | 28.5 | 81.5 | | | | |
| 4.0 | 73.2 | 29.0 | 80.6 | | | | |
| 4.5 | 71.3 | 29.5 | 80.2 | | | | |
| 5.0 | 66.5 | 30.0 | 85.5 | | | | |
| 5.5 | 69.1 | 30.5 | 85.4 | | | | |
| 6.0 | 70.6 | 31.0 | 85.8 | | | | |
| 6.5 | 68.4 | 31.5 | 85.1 | | | | |
| 7.0 | 69.0 | 32.0 | 82.3 | | | | |
| 7.5 | 67.6 | 32.5 | 78.3 | | | | |
| 8.0 | 68.7 | 33.0 | 84.2 | | | | |
| 8.5 | 73.5 | 33.5 | 82.2 | | | | |
| 9.0 | 75.2 | 34.0 | 80.9 | | | | |
| 9.5 | 73.4 | 34.5 | 78.9 | | | | |
| 10.0 | 76.8 | 35.0 | 84.1 | | | | |
| 10.5 | 76.2 | 35.5 | 85.1 | | | | |
| 11.0 | 74.7 | 36.0 | 85.2 | | | | |
| 11.5 | 74.5 | 36.5 | 86.4 | | | | |
| 12.0 | 75.5 | 37.0 | 86.0 | | | | |
| 12.5 | 86.4 | 37.5 | 84.2 | | | | |
| 13.0 | 88.6 | 38.0 | 85.5 | | | | |
| 13.5 | 93.5 | 38.5 | 85.4 | | | | |
| 14.0 | 89.5 | 39.0 | 86.0 | | | | |
| 14.5 | 92.0 | 39.5 | 81.0 | | | | |
| 15.0 | 89.4 | 40.0 | 75.5 | | | | |
| 15.5 | 96.3 | 40.5 | 72.7 | | | | |
| 16.0 | 90.7 | 41.0 | 78.7 | | | | |
| 16.5 | 96.5 | 41.5 | 78.5 | | | | |
| 17.0 | 86.1 | 42.0 | 69.5 | | | | |
| 17.5 | 85.5 | 42.5 | 68.6 | | | | |
| 18.0 | 81.6 | | | | | | |
| 18.5 | 80.3 | | | | | | |
| 19.0 | 82.7 | | | | | | |
| 19.5 | 85.4 | | | | | | |
| 20.0 | 85.1 | | | | | | |
| 20.5 | 84.8 | | | | | | |
| 21.0 | 85.9 | | | | | | |
| 21.5 | 85.5 | | | | | | |
| 22.0 | 91.3 | | | | | | |
| 22.5 | 90.8 | | | | | | |
| 23.0 | 87.9 | | | | | | |
| 23.5 | 85.1 | | | | | | |
| 24.0 | 87.6 | | | | | | |
| 24.5 | 86.6 | | | | | | |
| 25.0 | 87.1 | | | | | | |

TSC BELL 206L #71: FLYOVER, 130 MPH, 560 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 74.3 | | | | | | |
| 1.0 | 78.3 | | | | | | |
| 1.5 | 83.3 | | | | | | |
| 2.0 | 83.7 | | | | | | |
| 2.5 | 82.4 | | | | | | |
| 3.0 | 84.1 | | | | | | |
| 3.5 | 82.9 | | | | | | |
| 4.0 | 79.4 | | | | | | |
| 4.5 | 81.5 | | | | | | |
| 5.0 | 79.3 | | | | | | |
| 5.5 | 81.8 | | | | | | |
| 6.0 | 88.9 | | | | | | |
| 6.5 | 86.2 | | | | | | |
| 7.0 | 86.3 | | | | | | |
| 7.5 | 81.3 | | | | | | |
| 8.0 | 87.9 | | | | | | |
| 8.5 | 83.7 | | | | | | |
| 9.0 | 86.6 | | | | | | |
| 9.5 | 86.0 | | | | | | |
| 10.0 | 86.4 | | | | | | |
| 10.5 | 87.3 | | | | | | |
| 11.0 | 85.2 | | | | | | |
| 11.5 | 84.5 | | | | | | |
| 12.0 | 86.0 | | | | | | |
| 12.5 | 84.7 | | | | | | |
| 13.0 | 86.6 | | | | | | |
| 13.5 | 84.4 | | | | | | |
| 14.0 | 85.2 | | | | | | |
| 14.5 | 80.6 | | | | | | |
| 15.0 | 78.5 | | | | | | |
| 15.5 | 77.6 | | | | | | |
| 16.0 | 77.7 | | | | | | |
| 16.5 | 90.9 | | | | | | |
| 17.0 | 78.1 | | | | | | |
| 17.5 | 77.8 | | | | | | |
| 18.0 | 78.8 | | | | | | |
| 18.5 | 79.6 | | | | | | |
| 19.0 | 75.8 | | | | | | |
| 19.5 | 78.0 | | | | | | |
| 20.0 | 82.1 | | | | | | |

TSC BELL 47G #19: 6 DEG APRCH., 60 MPH, 400 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 83.0 | 25.5 | 82.6 | | | | |
| 1.0 | 82.5 | 26.0 | 79.2 | | | | |
| 1.5 | 83.3 | 26.5 | 80.1 | | | | |
| 2.0 | 80.3 | 27.0 | 78.5 | | | | |
| 2.5 | 78.4 | 27.5 | 80.3 | | | | |
| 3.0 | 77.7 | 28.0 | 80.4 | | | | |
| 3.5 | 71.3 | 28.5 | 78.1 | | | | |
| 4.0 | 81.8 | 29.0 | 79.0 | | | | |
| 4.5 | 78.1 | 29.5 | 79.2 | | | | |
| 5.0 | 82.2 | 30.0 | 77.5 | | | | |
| 5.5 | 82.2 | 30.5 | 77.7 | | | | |
| 6.0 | 84.0 | 31.0 | 75.0 | | | | |
| 6.5 | 83.5 | | | | | | |
| 7.0 | 84.1 | | | | | | |
| 7.5 | 88.7 | | | | | | |
| 8.0 | 87.4 | | | | | | |
| 8.5 | 87.4 | | | | | | |
| 9.0 | 85.9 | | | | | | |
| 9.5 | 86.1 | | | | | | |
| 10.0 | 88.4 | | | | | | |
| 10.5 | 90.6 | | | | | | |
| 11.0 | 89.3 | | | | | | |
| 11.5 | 91.8 | | | | | | |
| 12.0 | 90.2 | | | | | | |
| 12.5 | 92.5 | | | | | | |
| 13.0 | 90.3 | | | | | | |
| 13.5 | 91.8 | | | | | | |
| 14.0 | 93.6 | | | | | | |
| 14.5 | 93.7 | | | | | | |
| 15.0 | 93.1 | | | | | | |
| 15.5 | 93.6 | | | | | | |
| 16.0 | 93.8 | | | | | | |
| 16.5 | 94.9 | | | | | | |
| 17.0 | 96.6 | | | | | | |
| 17.5 | 92.9 | | | | | | |
| 18.0 | 89.6 | | | | | | |
| 18.5 | 86.8 | | | | | | |
| 19.0 | 90.3 | | | | | | |
| 19.5 | 91.8 | | | | | | |
| 20.0 | 92.0 | | | | | | |
| 20.5 | 90.5 | | | | | | |
| 21.0 | 89.6 | | | | | | |
| 21.5 | 89.7 | | | | | | |
| 22.0 | 86.1 | | | | | | |
| 22.5 | 84.2 | | | | | | |
| 23.0 | 81.2 | | | | | | |
| 23.5 | 82.9 | | | | | | |
| 24.0 | 83.7 | | | | | | |
| 24.5 | 88.8 | | | | | | |
| 25.0 | 86.6 | | | | | | |

TSC BELL 47G #29: FLYOVER, 68 MPH, 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 74.3 | 25.5 | 82.3 | | | | |
| 1.0 | 76.5 | 26.0 | 83.8 | | | | |
| 1.5 | 76.6 | 26.5 | 80.3 | | | | |
| 2.0 | 76.2 | 27.0 | 78.7 | | | | |
| 2.5 | 79.2 | 27.5 | 81.7 | | | | |
| 3.0 | 78.8 | 28.0 | 83.3 | | | | |
| 3.5 | 81.8 | 28.5 | 82.3 | | | | |
| 4.0 | 78.5 | 29.0 | 80.2 | | | | |
| 4.5 | 81.8 | 29.5 | 77.8 | | | | |
| 5.0 | 84.7 | 30.0 | 78.1 | | | | |
| 5.5 | 84.5 | 30.5 | 79.0 | | | | |
| 6.0 | 86.1 | 31.0 | 79.5 | | | | |
| 6.5 | 85.7 | 31.5 | 76.0 | | | | |
| 7.0 | 87.7 | 32.0 | 76.8 | | | | |
| 7.5 | 89.4 | 32.5 | 75.5 | | | | |
| 8.0 | 88.6 | | | | | | |
| 8.5 | 90.1 | | | | | | |
| 9.0 | 88.5 | | | | | | |
| 9.5 | 89.1 | | | | | | |
| 10.0 | 88.6 | | | | | | |
| 10.5 | 91.2 | | | | | | |
| 11.0 | 91.3 | | | | | | |
| 11.5 | 90.2 | | | | | | |
| 12.0 | 88.9 | | | | | | |
| 12.5 | 89.8 | | | | | | |
| 13.0 | 90.9 | | | | | | |
| 13.5 | 90.7 | | | | | | |
| 14.0 | 90.1 | | | | | | |
| 14.5 | 90.6 | | | | | | |
| 15.0 | 89.4 | | | | | | |
| 15.5 | 83.3 | | | | | | |
| 16.0 | 86.5 | | | | | | |
| 16.5 | 87.9 | | | | | | |
| 17.0 | 89.8 | | | | | | |
| 17.5 | 90.1 | | | | | | |
| 18.0 | 87.6 | | | | | | |
| 18.5 | 84.9 | | | | | | |
| 19.0 | 81.6 | | | | | | |
| 19.5 | 81.7 | | | | | | |
| 20.0 | 84.8 | | | | | | |
| 20.5 | 83.8 | | | | | | |
| 21.0 | 83.7 | | | | | | |
| 21.5 | 90.2 | | | | | | |
| 22.0 | 86.4 | | | | | | |
| 22.5 | 85.9 | | | | | | |
| 23.0 | 89.2 | | | | | | |
| 23.5 | 84.6 | | | | | | |
| 24.0 | 80.4 | | | | | | |
| 24.5 | 81.9 | | | | | | |
| 25.0 | 79.7 | | | | | | |

TSC BELL 47G #30: FLYOVER, 75 MPH, 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 71.5 | | | | | | |
| 1.0 | 71.5 | | | | | | |
| 1.5 | 72.7 | | | | | | |
| 2.0 | 75.2 | | | | | | |
| 2.5 | 78.2 | | | | | | |
| 3.0 | 77.1 | | | | | | |
| 3.5 | 79.4 | | | | | | |
| 4.0 | 80.5 | | | | | | |
| 4.5 | 81.6 | | | | | | |
| 5.0 | 82.7 | | | | | | |
| 5.5 | 83.1 | | | | | | |
| 6.0 | 85.8 | | | | | | |
| 6.5 | 86.0 | | | | | | |
| 7.0 | 86.3 | | | | | | |
| 7.5 | 87.1 | | | | | | |
| 8.0 | 85.9 | | | | | | |
| 8.5 | 87.2 | | | | | | |
| 9.0 | 86.1 | | | | | | |
| 9.5 | 87.0 | | | | | | |
| 10.0 | 86.7 | | | | | | |
| 10.5 | 86.6 | | | | | | |
| 11.0 | 84.2 | | | | | | |
| 11.5 | 85.2 | | | | | | |
| 12.0 | 84.1 | | | | | | |
| 12.5 | 79.9 | | | | | | |
| 13.0 | 79.6 | | | | | | |
| 13.5 | 81.9 | | | | | | |
| 14.0 | 79.3 | | | | | | |
| 14.5 | 84.1 | | | | | | |

TSC BELL 47G #41: 9 DEG. APRCH., 60 MPH, 400 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 77.4 | | | | | | |
| 1.0 | 83.3 | | | | | | |
| 1.5 | 82.2 | | | | | | |
| 2.0 | 80.4 | | | | | | |
| 2.5 | 76.4 | | | | | | |
| 3.0 | 79.6 | | | | | | |
| 3.5 | 79.2 | | | | | | |
| 4.0 | 78.7 | | | | | | |
| 4.5 | 80.9 | | | | | | |
| 5.0 | 81.1 | | | | | | |
| 5.5 | 80.7 | | | | | | |
| 6.0 | 81.1 | | | | | | |
| 6.5 | 86.2 | | | | | | |
| 7.0 | 93.7 | | | | | | |
| 7.5 | 97.4 | | | | | | |
| 8.0 | 91.1 | | | | | | |
| 8.5 | 90.3 | | | | | | |
| 9.0 | 87.4 | | | | | | |
| 9.5 | 86.7 | | | | | | |
| 10.0 | 85.8 | | | | | | |
| 10.5 | 85.4 | | | | | | |
| 11.0 | 87.5 | | | | | | |
| 11.5 | 85.7 | | | | | | |
| 12.0 | 84.7 | | | | | | |
| 12.5 | 87.4 | | | | | | |
| 13.0 | 83.8 | | | | | | |
| 13.5 | 84.8 | | | | | | |
| 14.0 | 82.5 | | | | | | |
| 14.5 | 82.0 | | | | | | |
| 15.0 | 81.9 | | | | | | |
| 15.5 | 82.4 | | | | | | |
| 16.0 | 81.8 | | | | | | |
| 16.5 | 82.0 | | | | | | |
| 17.0 | 79.7 | | | | | | |
| 17.5 | 79.6 | | | | | | |
| 18.0 | 80.5 | | | | | | |
| 18.5 | 80.2 | | | | | | |
| 19.0 | 77.3 | | | | | | |
| 19.5 | 78.0 | | | | | | |
| 20.0 | 75.7 | | | | | | |
| 20.5 | 78.6 | | | | | | |
| 21.0 | 77.8 | | | | | | |
| 21.5 | 75.8 | | | | | | |
| 22.0 | 76.0 | | | | | | |
| 22.5 | 74.4 | | | | | | |
| 23.0 | 72.5 | | | | | | |
| 23.5 | 73.9 | | | | | | |
| 24.0 | 73.6 | | | | | | |
| 24.5 | 72.7 | | | | | | |
| 25.0 | 72.0 | | | | | | |

TSC 500C #58: FLYOVER , 70 MPH, 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 80.6 | | | | | | |
| 1.0 | 82.9 | | | | | | |
| 1.5 | 82.3 | | | | | | |
| 2.0 | 83.4 | | | | | | |
| 2.5 | 81.1 | | | | | | |
| 3.0 | 80.6 | | | | | | |
| 3.5 | 84.2 | | | | | | |
| 4.0 | 83.5 | | | | | | |
| 4.5 | 81.3 | | | | | | |
| 5.0 | 80.4 | | | | | | |
| 5.5 | 84.6 | | | | | | |
| 6.0 | 94.5 | | | | | | |
| 6.5 | 92.4 | | | | | | |
| 7.0 | 81.1 | | | | | | |
| 7.5 | 82.4 | | | | | | |
| 8.0 | 80.5 | | | | | | |
| 8.5 | 84.4 | | | | | | |
| 9.0 | 81.1 | | | | | | |
| 9.5 | 81.5 | | | | | | |
| 10.0 | 85.6 | | | | | | |
| 10.5 | 84.8 | | | | | | |
| 11.0 | 84.0 | | | | | | |
| 11.5 | 86.1 | | | | | | |
| 12.0 | 86.1 | | | | | | |
| 12.5 | 87.6 | | | | | | |
| 13.0 | 87.6 | | | | | | |
| 13.5 | 86.8 | | | | | | |
| 14.0 | 87.2 | | | | | | |
| 14.5 | 85.2 | | | | | | |
| 15.0 | 85.8 | | | | | | |
| 15.5 | 84.4 | | | | | | |
| 16.0 | 85.6 | | | | | | |
| 16.5 | 84.3 | | | | | | |
| 17.0 | 83.6 | | | | | | |
| 17.5 | 81.5 | | | | | | |
| 18.0 | 81.2 | | | | | | |
| 18.5 | 78.9 | | | | | | |
| 19.0 | 77.6 | | | | | | |
| 19.5 | 75.0 | | | | | | |
| 20.0 | 78.3 | | | | | | |
| 20.5 | 77.9 | | | | | | |
| 21.0 | 78.5 | | | | | | |
| 21.5 | 75.0 | | | | | | |
| 22.0 | 73.8 | | | | | | |
| 22.5 | 78.9 | | | | | | |
| 23.0 | 78.6 | | | | | | |
| 23.5 | 71.2 | | | | | | |

TSC 500C #65: 6 DEG APRCH., 69 MPH, 400 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 81.0 | | | | | | |
| 1.0 | 80.6 | | | | | | |
| 1.5 | 79.3 | | | | | | |
| 2.0 | 75.8 | | | | | | |
| 2.5 | 80.4 | | | | | | |
| 3.0 | 81.9 | | | | | | |
| 3.5 | 83.5 | | | | | | |
| 4.0 | 86.9 | | | | | | |
| 4.5 | 86.5 | | | | | | |
| 5.0 | 83.4 | | | | | | |
| 5.5 | 81.7 | | | | | | |
| 6.0 | 82.5 | | | | | | |
| 6.5 | 86.5 | | | | | | |
| 7.0 | 87.7 | | | | | | |
| 7.5 | 86.1 | | | | | | |
| 8.0 | 83.4 | | | | | | |
| 8.5 | 85.4 | | | | | | |
| 9.0 | 88.0 | | | | | | |
| 9.5 | 87.3 | | | | | | |
| 10.0 | 84.4 | | | | | | |
| 10.5 | 87.2 | | | | | | |
| 11.0 | 86.8 | | | | | | |
| 11.5 | 91.6 | | | | | | |
| 12.0 | 91.6 | | | | | | |
| 12.5 | 88.1 | | | | | | |
| 13.0 | 87.9 | | | | | | |
| 13.5 | 89.9 | | | | | | |
| 14.0 | 89.3 | | | | | | |
| 14.5 | 90.1 | | | | | | |
| 15.0 | 88.0 | | | | | | |
| 15.5 | 86.0 | | | | | | |
| 16.0 | 88.5 | | | | | | |
| 16.5 | 92.7 | | | | | | |
| 17.0 | 95.4 | | | | | | |
| 17.5 | 93.4 | | | | | | |
| 18.0 | 87.3 | | | | | | |
| 18.5 | 85.4 | | | | | | |
| 19.0 | 85.7 | | | | | | |
| 19.5 | 83.6 | | | | | | |
| 20.0 | 84.8 | | | | | | |
| 20.5 | 83.5 | | | | | | |
| 21.0 | 79.5 | | | | | | |
| 21.5 | 80.7 | | | | | | |
| 22.0 | 80.3 | | | | | | |
| 22.5 | 78.5 | | | | | | |
| 23.0 | 79.7 | | | | | | |

TSC 500C #109: FLYOVER, 150 MPH, 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 81.0 | | | | | | |
| 1.0 | 78.3 | | | | | | |
| 1.5 | 85.2 | | | | | | |
| 2.0 | 82.7 | | | | | | |
| 2.5 | 80.1 | | | | | | |
| 3.0 | 81.9 | | | | | | |
| 3.5 | 83.8 | | | | | | |
| 4.0 | 81.1 | | | | | | |
| 4.5 | 82.9 | | | | | | |
| 5.0 | 85.4 | | | | | | |
| 5.5 | 81.3 | | | | | | |
| 6.0 | 81.1 | | | | | | |
| 6.5 | 79.9 | | | | | | |
| 7.0 | 80.9 | | | | | | |
| 7.5 | 83.1 | | | | | | |
| 8.0 | 82.1 | | | | | | |
| 8.5 | 83.2 | | | | | | |
| 9.0 | 83.5 | | | | | | |
| 9.5 | 83.5 | | | | | | |
| 10.0 | 87.5 | | | | | | |
| 10.5 | 88.2 | | | | | | |
| 11.0 | 89.9 | | | | | | |
| 11.5 | 89.7 | | | | | | |
| 12.0 | 89.6 | | | | | | |
| 12.5 | 89.4 | | | | | | |
| 13.0 | 90.6 | | | | | | |
| 13.5 | 92.1 | | | | | | |
| 14.0 | 91.4 | | | | | | |
| 14.5 | 90.0 | | | | | | |
| 15.0 | 90.5 | | | | | | |
| 15.5 | 87.0 | | | | | | |
| 16.0 | 85.7 | | | | | | |
| 16.5 | 81.6 | | | | | | |
| 17.0 | 82.5 | | | | | | |
| 17.5 | 80.3 | | | | | | |
| 18.0 | 80.0 | | | | | | |
| 18.5 | 80.5 | | | | | | |
| 19.0 | 77.1 | | | | | | |
| 19.5 | 77.4 | | | | | | |
| 20.0 | 73.0 | | | | | | |

TSC 500 C #110: FLYOVER, 130 MPH, 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 79.2 | | | | | | |
| 1.0 | 74.0 | | | | | | |
| 1.5 | 77.1 | | | | | | |
| 2.0 | 77.1 | | | | | | |
| 2.5 | 80.6 | | | | | | |
| 3.0 | 81.1 | | | | | | |
| 3.5 | 76.7 | | | | | | |
| 4.0 | 81.2 | | | | | | |
| 4.5 | 81.9 | | | | | | |
| 5.0 | 82.0 | | | | | | |
| 5.5 | 79.2 | | | | | | |
| 6.0 | 78.9 | | | | | | |
| 6.5 | 78.8 | | | | | | |
| 7.0 | 78.5 | | | | | | |
| 7.5 | 78.1 | | | | | | |
| 8.0 | 76.6 | | | | | | |
| 8.5 | 77.1 | | | | | | |
| 9.0 | 81.2 | | | | | | |
| 9.5 | 82.5 | | | | | | |
| 10.0 | 82.1 | | | | | | |
| 10.5 | 83.6 | | | | | | |
| 11.0 | 82.4 | | | | | | |
| 11.5 | 82.1 | | | | | | |
| 12.0 | 83.5 | | | | | | |
| 12.5 | 83.7 | | | | | | |
| 13.0 | 84.5 | | | | | | |
| 13.5 | 85.8 | | | | | | |
| 14.0 | 84.5 | | | | | | |
| 14.5 | 83.8 | | | | | | |
| 15.0 | 87.0 | | | | | | |
| 15.5 | 87.5 | | | | | | |
| 16.0 | 87.3 | | | | | | |
| 16.5 | 87.6 | | | | | | |
| 17.0 | 87.9 | | | | | | |
| 17.5 | 90.2 | | | | | | |
| 18.0 | 89.4 | | | | | | |
| 18.5 | 91.6 | | | | | | |
| 19.0 | 90.8 | | | | | | |
| 19.5 | 87.6 | | | | | | |
| 20.0 | 86.2 | | | | | | |
| 20.5 | 85.2 | | | | | | |
| 21.0 | 83.5 | | | | | | |
| 21.5 | 82.1 | | | | | | |
| 22.0 | 81.2 | | | | | | |
| 22.5 | 79.5 | | | | | | |
| 23.0 | 77.8 | | | | | | |
| 23.5 | 78.5 | | | | | | |
| 24.0 | 75.6 | | | | | | |
| 24.5 | 78.0 | | | | | | |
| 25.0 | 73.5 | | | | | | |

TSC S-61 #16: 9 DEG. APRCH., 60 KT., 400 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 80.5 | 25.5 | 81.5 | | | | |
| 1.0 | 87.1 | 26.0 | 82.0 | | | | |
| 1.5 | 88.3 | 26.5 | 80.9 | | | | |
| 2.0 | 92.3 | 27.0 | 78.0 | | | | |
| 2.5 | 89.2 | 27.5 | 81.5 | | | | |
| 3.0 | 83.6 | 28.0 | 82.0 | | | | |
| 3.5 | 82.2 | 28.5 | 78.8 | | | | |
| 4.0 | 83.5 | | | | | | |
| 4.5 | 84.8 | | | | | | |
| 5.0 | 80.6 | | | | | | |
| 5.5 | 83.3 | | | | | | |
| 6.0 | 80.9 | | | | | | |
| 6.5 | 82.1 | | | | | | |
| 7.0 | 84.1 | | | | | | |
| 7.5 | 81.3 | | | | | | |
| 8.0 | 82.7 | | | | | | |
| 8.5 | 83.4 | | | | | | |
| 9.0 | 82.8 | | | | | | |
| 9.5 | 85.3 | | | | | | |
| 10.0 | 86.1 | | | | | | |
| 10.5 | 90.5 | | | | | | |
| 11.0 | 87.3 | | | | | | |
| 11.5 | 85.9 | | | | | | |
| 12.0 | 85.9 | | | | | | |
| 12.5 | 85.8 | | | | | | |
| 13.0 | 84.4 | | | | | | |
| 13.5 | 87.3 | | | | | | |
| 14.0 | 86.8 | | | | | | |
| 14.5 | 87.6 | | | | | | |
| 15.0 | 88.7 | | | | | | |
| 15.5 | 88.5 | | | | | | |
| 16.0 | 89.9 | | | | | | |
| 16.5 | 91.0 | | | | | | |
| 17.0 | 93.0 | | | | | | |
| 17.5 | 96.0 | | | | | | |
| 18.0 | 92.7 | | | | | | |
| 18.5 | 92.6 | | | | | | |
| 19.0 | 92.4 | | | | | | |
| 19.5 | 93.1 | | | | | | |
| 20.0 | 92.6 | | | | | | |
| 20.5 | 95.4 | | | | | | |
| 21.0 | 91.9 | | | | | | |
| 21.5 | 88.7 | | | | | | |
| 22.0 | 87.1 | | | | | | |
| 22.5 | 86.3 | | | | | | |
| 23.0 | 86.3 | | | | | | |
| 23.5 | 82.7 | | | | | | |
| 24.0 | 83.3 | | | | | | |
| 24.5 | 81.8 | | | | | | |
| 25.0 | 83.0 | | | | | | |

TSC S-61 #18: FLYOVER 60 KT., 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 89.2 | 25.5 | 80.8 | | | | |
| 1.0 | 92.4 | 26.0 | 82.1 | | | | |
| 1.5 | 95.0 | 26.5 | 83.7 | | | | |
| 2.0 | 94.6 | 27.0 | 82.1 | | | | |
| 2.5 | 93.9 | 27.5 | 81.1 | | | | |
| 3.0 | 93.0 | 28.0 | 80.9 | | | | |
| 3.5 | 90.3 | | | | | | |
| 4.0 | 89.9 | | | | | | |
| 4.5 | 90.9 | | | | | | |
| 5.0 | 86.8 | | | | | | |
| 5.5 | 88.7 | | | | | | |
| 6.0 | 86.3 | | | | | | |
| 6.5 | 89.1 | | | | | | |
| 7.0 | 96.0 | | | | | | |
| 7.5 | 92.3 | | | | | | |
| 8.0 | 92.6 | | | | | | |
| 8.5 | 91.7 | | | | | | |
| 9.0 | 91.8 | | | | | | |
| 9.5 | 91.1 | | | | | | |
| 10.0 | 90.6 | | | | | | |
| 10.5 | 94.7 | | | | | | |
| 11.0 | 92.3 | | | | | | |
| 11.5 | 94.0 | | | | | | |
| 12.0 | 95.8 | | | | | | |
| 12.5 | 94.3 | | | | | | |
| 13.0 | 95.6 | | | | | | |
| 13.5 | 92.9 | | | | | | |
| 14.0 | 92.3 | | | | | | |
| 14.5 | 94.6 | | | | | | |
| 15.0 | 93.7 | | | | | | |
| 15.5 | 92.4 | | | | | | |
| 16.0 | 92.6 | | | | | | |
| 16.5 | 95.4 | | | | | | |
| 17.0 | 91.8 | | | | | | |
| 17.5 | 92.0 | | | | | | |
| 18.0 | 91.4 | | | | | | |
| 18.5 | 89.8 | | | | | | |
| 19.0 | 89.8 | | | | | | |
| 19.5 | 92.8 | | | | | | |
| 20.0 | 91.9 | | | | | | |
| 20.5 | 88.3 | | | | | | |
| 21.0 | 87.7 | | | | | | |
| 21.5 | 88.6 | | | | | | |
| 22.0 | 86.6 | | | | | | |
| 22.5 | 86.3 | | | | | | |
| 23.0 | 87.3 | | | | | | |
| 23.5 | 85.7 | | | | | | |
| 24.0 | 84.2 | | | | | | |
| 24.5 | 82.5 | | | | | | |
| 25.0 | 81.4 | | | | | | |

TSC S-61 #20: 6 DEG. APRCH., 60 KT., 400 FT;

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 89.2 | | | | | | |
| 1.0 | 91.8 | | | | | | |
| 1.5 | 90.6 | | | | | | |
| 2.0 | 88.3 | | | | | | |
| 2.5 | 89.1 | | | | | | |
| 3.0 | 89.1 | | | | | | |
| 3.5 | 89.8 | | | | | | |
| 4.0 | 88.3 | | | | | | |
| 4.5 | 90.4 | | | | | | |
| 5.0 | 97.8 | | | | | | |
| 5.5 | 96.3 | | | | | | |
| 6.0 | 93.2 | | | | | | |
| 6.5 | 94.1 | | | | | | |
| 7.0 | 94.0 | | | | | | |
| 7.5 | 94.1 | | | | | | |
| 8.0 | 93.7 | | | | | | |
| 8.5 | 94.8 | | | | | | |
| 9.0 | 96.3 | | | | | | |
| 9.5 | 96.8 | | | | | | |
| 10.0 | 96.3 | | | | | | |
| 10.5 | 95.3 | | | | | | |
| 11.0 | 99.8 | | | | | | |
| 11.5 | 97.2 | | | | | | |
| 12.0 | 97.5 | | | | | | |
| 12.5 | 93.8 | | | | | | |
| 13.0 | 94.0 | | | | | | |
| 13.5 | 94.3 | | | | | | |
| 14.0 | 91.6 | | | | | | |
| 14.5 | 91.6 | | | | | | |
| 15.0 | 90.6 | | | | | | |
| 15.5 | 92.8 | | | | | | |
| 16.0 | 91.6 | | | | | | |
| 16.5 | 87.7 | | | | | | |
| 17.0 | 87.0 | | | | | | |
| 17.5 | 84.5 | | | | | | |
| 18.0 | 84.7 | | | | | | |
| 18.5 | 84.8 | | | | | | |
| 19.0 | 82.8 | | | | | | |
| 19.5 | 86.1 | | | | | | |
| 20.0 | 83.8 | | | | | | |
| 20.5 | 83.4 | | | | | | |

TSC S-61 #34: FLYOVER , 115 KT., 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 87.3 | | | | | | |
| 1.0 | 89.0 | | | | | | |
| 1.5 | 88.0 | | | | | | |
| 2.0 | 86.3 | | | | | | |
| 2.5 | 90.9 | | | | | | |
| 3.0 | 91.2 | | | | | | |
| 3.5 | 89.3 | | | | | | |
| 4.0 | 92.3 | | | | | | |
| 4.5 | 94.0 | | | | | | |
| 5.0 | 95.7 | | | | | | |
| 5.5 | 95.6 | | | | | | |
| 6.0 | 98.3 | | | | | | |
| 6.5 | 96.4 | | | | | | |
| 7.0 | 94.3 | | | | | | |
| 7.5 | 94.8 | | | | | | |
| 8.0 | 94.3 | | | | | | |
| 8.5 | 91.6 | | | | | | |
| 9.0 | 92.5 | | | | | | |
| 9.5 | 89.7 | | | | | | |
| 10.0 | 87.3 | | | | | | |
| 10.5 | 86.3 | | | | | | |
| 11.0 | 86.8 | | | | | | |
| 11.5 | 85.8 | | | | | | |
| 12.0 | 86.0 | | | | | | |
| 12.5 | 87.0 | | | | | | |
| 13.0 | 87.2 | | | | | | |
| 13.5 | 84.6 | | | | | | |
| 14.0 | 80.7 | | | | | | |
| 14.5 | 80.4 | | | | | | |
| 15.0 | 81.1 | | | | | | |

TSC S-64 #50: FLYOVER, 60 KT. , 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 83.5 | 25.5 | 89.6 | | | | |
| 1.0 | 87.4 | 26.0 | 87.4 | | | | |
| 1.5 | 84.6 | 26.5 | 86.5 | | | | |
| 2.0 | 86.8 | 27.0 | 84.2 | | | | |
| 2.5 | 87.7 | 27.5 | 88.3 | | | | |
| 3.0 | 87.1 | 28.0 | 88.2 | | | | |
| 3.5 | 84.6 | 28.5 | 82.7 | | | | |
| 4.0 | 81.5 | 29.0 | 80.3 | | | | |
| 4.5 | 87.7 | 29.5 | 87.3 | | | | |
| 5.0 | 86.8 | 30.0 | 80.4 | | | | |
| 5.5 | 86.7 | 30.5 | 78.8 | | | | |
| 6.0 | 89.0 | | | | | | |
| 6.5 | 87.4 | | | | | | |
| 7.0 | 87.7 | | | | | | |
| 7.5 | 88.7 | | | | | | |
| 8.0 | 86.8 | | | | | | |
| 8.5 | 86.7 | | | | | | |
| 9.0 | 88.9 | | | | | | |
| 9.5 | 94.0 | | | | | | |
| 10.0 | 93.7 | | | | | | |
| 10.5 | 94.5 | | | | | | |
| 11.0 | 96.1 | | | | | | |
| 11.5 | 96.4 | | | | | | |
| 12.0 | 98.6 | | | | | | |
| 12.5 | 99.8 | | | | | | |
| 13.0 | 98.8 | | | | | | |
| 13.5 | 99.4 | | | | | | |
| 14.0 | 98.0 | | | | | | |
| 14.5 | 96.5 | | | | | | |
| 15.0 | 95.2 | | | | | | |
| 15.5 | 95.0 | | | | | | |
| 16.0 | 97.4 | | | | | | |
| 16.5 | 96.8 | | | | | | |
| 17.0 | 94.6 | | | | | | |
| 17.5 | 94.5 | | | | | | |
| 18.0 | 94.9 | | | | | | |
| 18.5 | 93.5 | | | | | | |
| 19.0 | 93.5 | | | | | | |
| 19.5 | 91.8 | | | | | | |
| 20.0 | 91.2 | | | | | | |
| 20.5 | 89.5 | | | | | | |
| 21.0 | 88.8 | | | | | | |
| 21.5 | 91.2 | | | | | | |
| 22.0 | 90.5 | | | | | | |
| 22.5 | 88.8 | | | | | | |
| 23.0 | 89.0 | | | | | | |
| 23.5 | 88.8 | | | | | | |
| 24.0 | 89.3 | | | | | | |
| 24.5 | 90.3 | | | | | | |
| 25.0 | 90.8 | | | | | | |

TSC S-64 #51: 6 DEG. APRCH., 60 KT., 400 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 87.4 | 25.5 | 87.8 | | | | |
| 1.0 | 88.0 | 26.0 | 90.1 | | | | |
| 1.5 | 80.9 | 26.5 | 89.1 | | | | |
| 2.0 | 81.0 | 27.0 | 88.2 | | | | |
| 2.5 | 81.5 | 27.5 | 88.0 | | | | |
| 3.0 | 82.2 | 28.0 | 88.1 | | | | |
| 3.5 | 82.5 | 28.5 | 86.6 | | | | |
| 4.0 | 88.0 | 29.0 | 89.6 | | | | |
| 4.5 | 87.8 | | | | | | |
| 5.0 | 84.2 | | | | | | |
| 5.5 | 81.8 | | | | | | |
| 6.0 | 82.4 | | | | | | |
| 6.5 | 86.8 | | | | | | |
| 7.0 | 88.2 | | | | | | |
| 7.5 | 87.7 | | | | | | |
| 8.0 | 87.2 | | | | | | |
| 8.5 | 89.9 | | | | | | |
| 9.0 | 90.7 | | | | | | |
| 9.5 | 92.7 | | | | | | |
| 10.0 | 91.5 | | | | | | |
| 10.5 | 94.2 | | | | | | |
| 11.0 | 95.4 | | | | | | |
| 11.5 | 95.5 | | | | | | |
| 12.0 | 96.2 | | | | | | |
| 12.5 | 94.2 | | | | | | |
| 13.0 | 97.4 | | | | | | |
| 13.5 | 96.0 | | | | | | |
| 14.0 | 99.0 | | | | | | |
| 14.5 | 99.2 | | | | | | |
| 15.0 | 98.4 | | | | | | |
| 15.5 | 98.4 | | | | | | |
| 16.0 | 98.8 | | | | | | |
| 16.5 | 99.4 | | | | | | |
| 17.0 | 99.4 | | | | | | |
| 17.5 | 98.3 | | | | | | |
| 18.0 | 99.0 | | | | | | |
| 18.5 | 96.6 | | | | | | |
| 19.0 | 96.5 | | | | | | |
| 19.5 | 96.4 | | | | | | |
| 20.0 | 95.4 | | | | | | |
| 20.5 | 94.7 | | | | | | |
| 21.0 | 94.5 | | | | | | |
| 21.5 | 94.4 | | | | | | |
| 22.0 | 94.6 | | | | | | |
| 22.5 | 93.9 | | | | | | |
| 23.0 | 93.3 | | | | | | |
| 23.5 | 92.9 | | | | | | |
| 24.0 | 94.4 | | | | | | |
| 24.5 | 91.2 | | | | | | |
| 25.0 | 90.8 | | | | | | |

TSC S-64 #67: FLYOVER, 95 KT., 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 90.6 | | | | | | |
| 1.0 | 91.1 | | | | | | |
| 1.5 | 95.3 | | | | | | |
| 2.0 | 95.1 | | | | | | |
| 2.5 | 96.9 | | | | | | |
| 3.0 | 99.3 | | | | | | |
| 3.5 | 99.2 | | | | | | |
| 4.0 | 101.2 | | | | | | |
| 4.5 | 100.3 | | | | | | |
| 5.0 | 99.6 | | | | | | |
| 5.5 | 96.5 | | | | | | |
| 6.0 | 96.1 | | | | | | |
| 6.5 | 94.0 | | | | | | |
| 7.0 | 92.8 | | | | | | |
| 7.5 | 94.2 | | | | | | |
| 8.0 | 93.6 | | | | | | |
| 8.5 | 93.5 | | | | | | |
| 9.0 | 91.5 | | | | | | |
| 9.5 | 89.2 | | | | | | |
| 10.0 | 89.2 | | | | | | |
| 10.5 | 88.7 | | | | | | |
| 11.0 | 87.4 | | | | | | |
| 11.5 | 85.9 | | | | | | |
| 12.0 | 88.2 | | | | | | |
| 12.5 | 88.5 | | | | | | |
| 13.0 | 85.5 | | | | | | |
| 13.5 | 87.1 | | | | | | |

TSC S-64 #74: 6 DEG. APRCH., 60 KT., 400 FT;

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 97.1 | | | | | | |
| 1.0 | 95.1 | | | | | | |
| 1.5 | 92.5 | | | | | | |
| 2.0 | 93.6 | | | | | | |
| 2.5 | 91.4 | | | | | | |
| 3.0 | 90.5 | | | | | | |
| 3.5 | 93.5 | | | | | | |
| 4.0 | 95.4 | | | | | | |
| 4.5 | 91.8 | | | | | | |
| 5.0 | 91.8 | | | | | | |
| 5.5 | 94.2 | | | | | | |
| 6.0 | 97.4 | | | | | | |
| 6.5 | 96.6 | | | | | | |
| 7.0 | 98.4 | | | | | | |
| 7.5 | 97.4 | | | | | | |
| 8.0 | 100.1 | | | | | | |
| 8.5 | 97.9 | | | | | | |
| 9.0 | 98.3 | | | | | | |
| 9.5 | 99.1 | | | | | | |
| 10.0 | 97.9 | | | | | | |
| 10.5 | 96.8 | | | | | | |
| 11.0 | 96.5 | | | | | | |
| 11.5 | 95.6 | | | | | | |
| 12.0 | 97.1 | | | | | | |
| 12.5 | 96.0 | | | | | | |
| 13.0 | 99.0 | | | | | | |
| 13.5 | 97.5 | | | | | | |
| 14.0 | 99.6 | | | | | | |
| 14.5 | 94.5 | | | | | | |
| 15.0 | 92.9 | | | | | | |
| 15.5 | 94.2 | | | | | | |
| 16.0 | 95.4 | | | | | | |
| 16.5 | 94.6 | | | | | | |
| 17.0 | 92.1 | | | | | | |
| 17.5 | 90.9 | | | | | | |
| 18.0 | 84.8 | | | | | | |
| 18.5 | 86.0 | | | | | | |
| 19.0 | 90.8 | | | | | | |
| 19.5 | 91.9 | | | | | | |
| 20.0 | 89.3 | | | | | | |
| 20.5 | 90.9 | | | | | | |

TSC S-64 #67: FLYOVER, 95 KT., 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 90.6 | | | | | | |
| 1.0 | 91.1 | | | | | | |
| 1.5 | 95.3 | | | | | | |
| 2.0 | 95.1 | | | | | | |
| 2.5 | 96.9 | | | | | | |
| 3.0 | 99.3 | | | | | | |
| 3.5 | 99.2 | | | | | | |
| 4.0 | 101.2 | | | | | | |
| 4.5 | 100.3 | | | | | | |
| 5.0 | 99.6 | | | | | | |
| 5.5 | 96.5 | | | | | | |
| 6.0 | 96.1 | | | | | | |
| 6.5 | 94.0 | | | | | | |
| 7.0 | 92.8 | | | | | | |
| 7.5 | 94.2 | | | | | | |
| 8.0 | 93.6 | | | | | | |
| 8.5 | 93.5 | | | | | | |
| 9.0 | 91.5 | | | | | | |
| 9.5 | 89.2 | | | | | | |
| 10.0 | 89.2 | | | | | | |
| 10.5 | 88.7 | | | | | | |
| 11.0 | 87.4 | | | | | | |
| 11.5 | 85.9 | | | | | | |
| 12.0 | 88.2 | | | | | | |
| 12.5 | 88.5 | | | | | | |
| 13.0 | 85.5 | | | | | | |
| 13.5 | 87.1 | | | | | | |

TSC S-64 #74: 6 DEG. APRCH., 60 KT., 400 FT;

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 97.1 | | | | | | |
| 1.0 | 95.1 | | | | | | |
| 1.5 | 92.5 | | | | | | |
| 2.0 | 93.6 | | | | | | |
| 2.5 | 91.4 | | | | | | |
| 3.0 | 90.5 | | | | | | |
| 3.5 | 93.5 | | | | | | |
| 4.0 | 95.4 | | | | | | |
| 4.5 | 91.8 | | | | | | |
| 5.0 | 91.8 | | | | | | |
| 5.5 | 94.2 | | | | | | |
| 6.0 | 97.4 | | | | | | |
| 6.5 | 96.6 | | | | | | |
| 7.0 | 98.4 | | | | | | |
| 7.5 | 97.4 | | | | | | |
| 8.0 | 100.1 | | | | | | |
| 8.5 | 97.9 | | | | | | |
| 9.0 | 98.3 | | | | | | |
| 9.5 | 99.1 | | | | | | |
| 10.0 | 97.9 | | | | | | |
| 10.5 | 96.8 | | | | | | |
| 11.0 | 96.5 | | | | | | |
| 11.5 | 95.6 | | | | | | |
| 12.0 | 97.1 | | | | | | |
| 12.5 | 96.0 | | | | | | |
| 13.0 | 99.0 | | | | | | |
| 13.5 | 97.5 | | | | | | |
| 14.0 | 99.6 | | | | | | |
| 14.5 | 94.5 | | | | | | |
| 15.0 | 92.9 | | | | | | |
| 15.5 | 94.2 | | | | | | |
| 16.0 | 95.4 | | | | | | |
| 16.5 | 94.6 | | | | | | |
| 17.0 | 92.1 | | | | | | |
| 17.5 | 90.9 | | | | | | |
| 18.0 | 84.8 | | | | | | |
| 18.5 | 86.0 | | | | | | |
| 19.0 | 90.8 | | | | | | |
| 19.5 | 91.9 | | | | | | |
| 20.0 | 89.3 | | | | | | |
| 20.5 | 90.9 | | | | | | |

TSC S-64 #78: FLYOVER, 95 KT., 500 FT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 95.3 | | | | | | |
| 1.0 | 103.7 | | | | | | |
| 1.5 | 98.8 | | | | | | |
| 2.0 | 100.2 | | | | | | |
| 2.5 | 100.9 | | | | | | |
| 3.0 | 99.6 | | | | | | |
| 3.5 | 98.9 | | | | | | |
| 4.0 | 99.1 | | | | | | |
| 4.5 | 97.6 | | | | | | |
| 5.0 | 97.8 | | | | | | |
| 5.5 | 96.7 | | | | | | |
| 6.0 | 97.2 | | | | | | |
| 6.5 | 95.7 | | | | | | |
| 7.0 | 93.5 | | | | | | |
| 7.5 | 93.1 | | | | | | |
| 8.0 | 91.8 | | | | | | |
| 8.5 | 91.7 | | | | | | |
| 9.0 | 90.2 | | | | | | |
| 9.5 | 91.0 | | | | | | |
| 10.0 | 90.2 | | | | | | |
| 10.5 | 90.8 | | | | | | |
| 11.0 | 91.5 | | | | | | |
| 11.5 | 89.5 | | | | | | |
| 12.0 | 89.7 | | | | | | |
| 12.5 | 83.0 | | | | | | |
| 13.0 | 81.6 | | | | | | |

TSC CH-47C #12: 6 DEG. APRCH., 60 KT. 400 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 87.3 | 0.0 | 87.3 | 81.5 | 72.4 | 80.0 | 87.0 | 0.1 |
| 0.5 | 87.4 | 0.0 | 87.4 | 81.8 | 72.5 | 80.1 | 87.1 | 0.1 |
| 1.0 | 87.5 | 0.0 | 87.5 | 82.1 | 72.5 | 80.2 | 87.2 | 0.1 |
| 1.5 | 87.7 | 0.0 | 87.7 | 82.5 | 72.7 | 80.3 | 87.3 | 0.1 |
| 2.0 | 87.8 | 0.0 | 87.8 | 82.8 | 72.7 | 80.4 | 87.4 | 0.1 |
| 2.5 | 88.0 | 0.0 | 88.0 | 83.3 | 73.0 | 80.6 | 87.6 | 0.1 |
| 3.0 | 88.2 | 0.0 | 88.2 | 83.7 | 73.2 | 80.8 | 87.8 | 0.1 |
| 3.5 | 88.4 | 0.0 | 88.4 | 84.2 | 73.4 | 81.0 | 88.0 | 0.1 |
| 4.0 | 88.8 | 0.0 | 88.8 | 84.9 | 73.9 | 81.4 | 88.4 | 0.1 |
| 4.5 | 89.2 | 0.0 | 89.2 | 85.8 | 74.3 | 81.9 | 88.9 | 0.1 |
| 5.0 | 89.7 | 0.0 | 89.7 | 86.2 | 74.8 | 82.2 | 89.2 | 0.1 |
| 5.5 | 90.0 | 0.0 | 90.0 | 86.7 | 75.0 | 82.5 | 89.5 | 0.1 |
| 6.0 | 90.4 | 0.0 | 90.4 | 86.7 | 75.4 | 82.7 | 89.7 | 0.1 |
| 6.5 | 90.6 | 0.0 | 90.6 | 87.0 | 75.6 | 83.0 | 90.0 | 0.1 |
| 7.0 | 91.3 | 0.0 | 91.3 | 87.6 | 76.4 | 83.6 | 90.6 | 0.1 |
| 7.5 | 92.2 | 0.5 | 92.7 | 88.5 | 77.2 | 84.3 | 91.3 | 0.7 |
| 8.0 | 92.8 | 0.6 | 93.4 | 89.0 | 77.8 | 84.8 | 91.8 | 0.7 |
| 8.5 | 93.1 | 0.5 | 93.6 | 89.5 | 78.0 | 85.1 | 92.1 | 0.7 |
| 9.0 | 93.4 | 0.6 | 94.0 | 90.1 | 78.2 | 85.4 | 92.4 | 0.7 |
| 9.5 | 93.1 | 0.5 | 93.6 | 90.0 | 78.0 | 85.3 | 92.3 | 0.7 |
| 10.0 | 93.1 | 0.5 | 93.6 | 90.3 | 77.7 | 85.3 | 92.3 | 0.7 |
| 10.5 | 93.0 | 0.6 | 93.6 | 90.4 | 77.4 | 85.1 | 92.1 | 0.7 |
| 11.0 | 92.7 | 0.7 | 93.4 | 89.7 | 77.0 | 84.7 | 91.7 | 0.7 |
| 11.5 | 99.1 | 3.3 | 102.4 | 93.8 | 86.0 | 91.6 | 98.6 | 0.9 |
| 12.0 | 91.8 | 0.7 | 92.5 | 88.4 | 75.9 | 83.7 | 90.7 | 0.7 |
| 12.5 | 91.2 | 0.7 | 91.9 | 87.1 | 75.3 | 83.0 | 90.0 | 0.7 |
| 13.0 | 90.8 | 0.7 | 91.5 | 86.5 | 74.9 | 82.7 | 89.7 | 0.7 |
| 13.5 | 90.6 | 0.8 | 91.4 | 86.4 | 74.7 | 82.5 | 89.5 | 0.7 |
| 14.0 | 90.7 | 0.8 | 91.5 | 86.9 | 74.9 | 82.6 | 89.6 | 0.7 |
| 14.5 | 90.7 | 0.7 | 91.4 | 87.0 | 75.4 | 82.7 | 89.7 | 0.7 |
| 15.0 | 90.7 | 0.7 | 91.4 | 86.8 | 75.7 | 82.7 | 89.7 | 0.7 |
| 15.5 | 90.5 | 1.9 | 92.4 | 86.7 | 75.5 | 82.6 | 89.6 | 1.3 |
| 16.0 | 89.8 | 1.7 | 91.5 | 86.5 | 74.9 | 82.2 | 89.2 | 1.3 |
| 16.5 | 89.9 | 1.8 | 91.7 | 86.7 | 74.8 | 82.2 | 89.2 | 1.3 |
| 17.0 | 90.0 | 0.0 | 90.0 | 86.7 | 74.7 | 82.1 | 89.1 | 0.1 |
| 17.5 | 90.3 | 0.0 | 90.3 | 87.3 | 74.9 | 82.4 | 89.4 | 0.1 |
| 18.0 | 90.0 | 0.6 | 90.6 | 87.6 | 74.6 | 82.4 | 89.4 | 0.7 |
| 18.5 | 89.9 | 0.7 | 90.6 | 87.9 | 74.6 | 82.4 | 89.4 | 0.7 |
| 19.0 | 89.9 | 0.7 | 90.6 | 88.0 | 74.6 | 82.5 | 89.5 | 0.7 |
| 19.5 | 90.0 | 0.6 | 90.6 | 87.9 | 74.8 | 82.5 | 89.5 | 0.7 |
| 20.0 | 90.1 | 0.6 | 90.7 | 87.8 | 75.1 | 82.5 | 89.5 | 0.7 |
| 20.5 | 90.5 | 0.6 | 91.1 | 87.6 | 76.3 | 83.0 | 90.0 | 0.3 |
| 21.0 | 91.1 | 0.6 | 91.7 | 87.9 | 77.6 | 83.5 | 90.5 | 0.3 |
| 21.5 | 91.3 | 0.6 | 91.9 | 88.0 | 77.8 | 83.7 | 90.7 | 0.3 |
| 22.0 | 91.5 | 0.5 | 92.0 | 88.4 | 77.7 | 83.7 | 90.7 | 1.0 |
| 22.5 | 91.7 | 0.5 | 92.2 | 89.2 | 77.7 | 84.0 | 91.0 | 1.0 |
| 23.0 | 91.9 | 0.7 | 92.6 | 89.7 | 77.3 | 84.1 | 91.1 | 0.7 |
| 23.5 | 92.1 | 0.9 | 93.0 | 90.2 | 76.7 | 84.1 | 91.1 | 0.7 |
| 24.0 | 92.3 | 1.0 | 93.3 | 90.3 | 76.4 | 84.2 | 91.2 | 0.7 |
| 24.5 | 92.2 | 0.9 | 93.1 | 90.1 | 76.1 | 84.1 | 91.1 | 0.7 |
| 25.0 | 91.7 | 0.6 | 92.3 | 89.6 | 75.8 | 83.9 | 90.9 | 0.7 |
| 25.5 | 91.5 | 0.0 | 91.5 | 89.5 | 75.4 | 83.7 | 90.7 | 0.1 |
| 26.0 | 91.0 | 0.0 | 91.0 | 89.0 | 74.9 | 83.3 | 90.3 | 0.1 |
| 26.5 | 91.0 | 0.0 | 91.0 | 89.2 | 74.7 | 83.3 | 90.3 | 0.1 |
| 27.0 | 91.0 | 0.0 | 91.0 | 89.5 | 74.6 | 83.3 | 90.3 | 0.1 |
| 27.5 | 91.0 | 0.0 | 91.0 | 89.5 | 74.7 | 83.3 | 90.3 | 0.1 |
| 28.0 | 91.4 | 0.0 | 91.4 | 89.7 | 75.1 | 83.6 | 90.6 | 0.1 |
| 28.5 | 91.7 | 0.0 | 91.7 | 89.9 | 75.8 | 83.9 | 90.9 | 0.1 |
| 29.0 | 92.2 | 0.0 | 92.2 | 89.8 | 76.6 | 84.3 | 91.3 | 0.1 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 92.1 | 0.0 | 92.1 | 89.2 | 76.9 | 84.2 | 91.2 | 0.1 |
| 30.0 | 92.7 | 0.0 | 92.7 | 89.8 | 77.2 | 84.6 | 91.6 | 0.1 |
| 30.5 | 93.3 | 0.0 | 93.3 | 90.4 | 77.6 | 85.0 | 92.0 | 0.1 |
| 31.0 | 93.7 | 0.0 | 93.7 | 90.7 | 78.3 | 85.4 | 92.4 | 0.1 |
| 31.5 | 94.1 | 0.0 | 94.1 | 91.5 | 78.8 | 85.9 | 92.9 | 0.1 |
| 32.0 | 94.2 | 0.0 | 94.2 | 92.0 | 78.7 | 86.2 | 93.2 | 0.1 |
| 32.5 | 94.3 | 0.0 | 94.3 | 92.3 | 78.9 | 86.4 | 93.4 | 0.1 |
| 33.0 | 94.3 | 0.0 | 94.3 | 92.4 | 78.8 | 86.4 | 93.4 | 0.1 |
| 33.5 | 94.4 | 0.5 | 94.9 | 92.6 | 78.9 | 86.5 | 93.5 | 0.3 |
| 34.0 | 94.9 | 0.0 | 94.9 | 93.1 | 79.1 | 86.9 | 93.9 | 0.1 |
| 34.5 | 95.5 | 0.0 | 95.5 | 93.6 | 80.2 | 87.5 | 94.5 | 0.1 |
| 35.0 | 96.4 | 0.9 | 97.3 | 94.0 | 81.9 | 88.4 | 95.4 | 0.9 |
| 35.5 | 97.3 | 1.0 | 98.3 | 94.9 | 82.7 | 89.2 | 96.2 | 0.9 |
| 36.0 | 98.2 | 0.9 | 99.1 | 95.6 | 83.8 | 89.9 | 96.9 | 0.9 |
| 36.5 | 98.7 | 1.0 | 99.7 | 95.9 | 84.2 | 90.3 | 97.3 | 1.0 |
| 37.0 | 98.2 | 0.9 | 99.1 | 95.4 | 83.8 | 89.9 | 96.9 | 1.0 |
| 37.5 | 98.3 | 0.0 | 98.3 | 94.9 | 84.0 | 89.9 | 96.9 | 0.1 |
| 38.0 | 98.5 | 1.1 | 99.6 | 95.2 | 84.2 | 90.3 | 97.3 | 1.3 |
| 38.5 | 99.0 | 1.1 | 100.1 | 95.5 | 84.7 | 90.7 | 97.7 | 1.3 |
| 39.0 | 99.0 | 1.2 | 100.2 | 95.6 | 84.9 | 90.9 | 97.9 | 1.3 |
| 39.5 | 99.4 | 0.9 | 100.3 | 95.6 | 85.4 | 91.2 | 98.2 | 0.8 |
| 40.0 | 100.3 | 0.0 | 100.3 | 96.6 | 86.4 | 92.1 | 99.1 | 0.1 |
| 40.5 | 101.3 | 0.0 | 101.3 | 97.5 | 87.4 | 93.2 | 100.2 | 0.1 |
| 41.0 | 101.8 | 1.2 | 103.0 | 97.9 | 88.2 | 93.8 | 100.8 | 1.2 |
| 41.5 | 101.6 | 1.2 | 102.8 | 97.4 | 88.0 | 93.5 | 100.5 | 1.2 |
| 42.0 | 101.3 | 1.0 | 102.3 | 97.2 | 87.6 | 93.2 | 100.2 | 1.2 |
| 42.5 | 101.1 | 0.8 | 101.9 | 97.0 | 87.2 | 92.9 | 99.9 | 0.4 |
| 43.0 | 101.6 | 1.1 | 102.7 | 97.1 | 87.5 | 93.4 | 100.4 | 0.4 |
| 43.5 | 102.2 | 1.0 | 103.2 | 97.6 | 88.3 | 94.1 | 101.1 | 0.4 |
| 44.0 | 102.7 | 0.8 | 103.5 | 98.0 | 88.9 | 94.6 | 101.6 | 0.2 |
| 44.5 | 103.6 | 0.6 | 104.2 | 98.3 | 90.2 | 95.5 | 102.5 | 0.8 |
| 45.0 | 104.0 | 0.6 | 104.6 | 98.6 | 91.0 | 96.2 | 103.2 | 0.7 |
| 45.5 | 104.6 | 0.6 | 105.2 | 99.3 | 91.3 | 96.7 | 103.7 | 1.0 |
| 46.0 | 104.8 | 0.5 | 105.3 | 99.6 | 91.6 | 97.0 | 104.0 | 1.0 |
| 46.5 | 105.0 | 0.0 | 105.0 | 100.0 | 91.7 | 97.2 | 104.2 | 0.1 |
| 47.0 | 104.9 | 0.5 | 105.4 | 100.5 | 91.7 | 97.5 | 104.5 | 0.6 |
| 47.5 | 105.5 | 0.7 | 106.2 | 101.6 | 92.1 | 98.2 | 105.2 | 0.4 |
| 48.0 | 106.1 | 0.5 | 106.6 | 102.4 | 93.0 | 99.0 | 106.0 | 0.4 |
| 48.5 | 106.8 | 0.6 | 107.4 | 103.3 | 93.8 | 99.9 | 106.9 | 0.9 |
| 49.0 | 107.4 | 0.6 | 108.0 | 104.2 | 94.5 | 100.6 | 107.6 | 0.5 |
| 49.5 | 107.9 | 0.6 | 108.5 | 104.8 | 95.1 | 101.3 | 108.3 | 0.5 |
| 50.0 | 107.7 | 0.0 | 107.7 | 104.8 | 95.0 | 101.3 | 108.3 | 0.1 |
| 50.5 | 107.4 | 0.0 | 107.4 | 104.6 | 94.5 | 101.0 | 108.0 | 0.1 |
| 51.0 | 106.7 | 0.0 | 106.7 | 103.9 | 93.6 | 100.1 | 107.1 | 0.1 |
| 51.5 | 106.0 | 0.6 | 106.6 | 102.8 | 92.7 | 99.1 | 106.1 | 0.4 |
| 52.0 | 105.4 | 0.9 | 106.3 | 101.9 | 91.8 | 98.2 | 105.2 | 0.2 |

MAXIMUM VALUES IN BANDS, PNLC =108.6

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 91.9 | 90.7 | 89.0 | 96.3 | 99.6 | 97.6 | 94.4 | 95.6 | 95.2 | 92.4 |
| 87.3 | 84.8 | 82.9 | 81.9 | 78.0 | 75.3 | 72.7 | 70.9 | 68.1 | 66.4 |
| 65.3 | 64.9 | 64.8 | 65.3 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 84.4 | 80.5 | 88.7 | 94.7 | 99.6 | 97.5 | 93.1 | 94.8 | 95.2 | 92.3 |
| 87.2 | 84.5 | 82.3 | 79.6 | 76.6 | 74.5 | 70.9 | 69.4 | 67.2 | 65.6 |
| 64.5 | 64.4 | 64.5 | 65.3 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T | 11.5 | 3.3 | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PNL | 49.5 | 107.9 | 16.5 | 116.0 | 50.0 | 116.6 | 108.3 | 110.1 |
| PNLT | 49.5 | 108.5 | 14.5 | 116.4 | 48.5 | 117.1 | 108.4 | 110.6 |
| A-LEV | 49.5 | 95.1 | 13.0 | 102.6 | 24.0 | 102.9 | 94.5 | 94.1 |
| N-LEV | 49.5 | 108.3 | 12.5 | 115.6 | 48.5 | 116.3 | 107.5 | 110.4 |

EPNL =106.4

TSC CH-47C #18: FLYOVER, 60 KT. 500 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 87.7 | 0.0 | 87.7 | 80.4 | 73.4 | 80.3 | 87.3 | 0.1 |
| 0.5 | 87.6 | 0.0 | 87.6 | 80.5 | 73.2 | 80.2 | 87.2 | 0.1 |
| 1.0 | 88.2 | 0.0 | 88.2 | 81.7 | 74.0 | 80.8 | 87.8 | 0.1 |
| 1.5 | 88.6 | 0.0 | 88.6 | 82.3 | 74.5 | 81.1 | 88.1 | 0.1 |
| 2.0 | 88.8 | 0.0 | 88.8 | 82.4 | 74.9 | 81.3 | 88.3 | 0.1 |
| 2.5 | 88.5 | 0.0 | 88.5 | 82.3 | 74.6 | 81.0 | 88.0 | 0.1 |
| 3.0 | 88.3 | 0.0 | 88.3 | 82.7 | 74.1 | 80.8 | 87.8 | 0.1 |
| 3.5 | 89.0 | 0.0 | 89.0 | 83.7 | 75.0 | 81.3 | 88.3 | 0.1 |
| 4.0 | 90.2 | 0.0 | 90.2 | 85.3 | 76.3 | 82.4 | 89.4 | 0.1 |
| 4.5 | 92.0 | 0.0 | 92.0 | 87.3 | 77.5 | 83.8 | 90.8 | 0.1 |
| 5.0 | 93.7 | 0.0 | 93.7 | 89.3 | 79.1 | 85.4 | 92.4 | 0.1 |
| 5.5 | 94.5 | 0.0 | 94.5 | 90.5 | 79.8 | 86.4 | 93.4 | 0.1 |
| 6.0 | 95.7 | 0.0 | 95.7 | 91.6 | 81.2 | 87.7 | 94.7 | 0.1 |
| 6.5 | 96.4 | 0.0 | 96.4 | 92.2 | 82.6 | 88.6 | 95.6 | 0.1 |
| 7.0 | 96.8 | 0.0 | 96.8 | 92.4 | 83.5 | 89.2 | 96.2 | 0.1 |
| 7.5 | 96.9 | 0.0 | 96.9 | 92.9 | 84.1 | 89.6 | 96.6 | 0.1 |
| 8.0 | 97.5 | 0.0 | 97.5 | 93.1 | 84.8 | 90.0 | 97.0 | 0.1 |
| 8.5 | 98.0 | 0.0 | 98.0 | 93.8 | 85.4 | 90.5 | 97.5 | 0.1 |
| 9.0 | 98.1 | 0.0 | 98.1 | 94.7 | 85.0 | 90.7 | 97.7 | 0.1 |
| 9.5 | 97.8 | 0.0 | 97.8 | 94.9 | 84.3 | 90.5 | 97.5 | 0.1 |
| 10.0 | 97.6 | 0.0 | 97.6 | 94.9 | 83.5 | 90.1 | 97.1 | 0.1 |
| 10.5 | 97.0 | 0.0 | 97.0 | 94.8 | 82.3 | 89.4 | 96.4 | 0.1 |
| 11.0 | 96.3 | 0.0 | 96.3 | 94.3 | 81.2 | 88.5 | 95.5 | 0.1 |
| 11.5 | 95.7 | 0.0 | 95.7 | 93.5 | 80.5 | 87.8 | 94.8 | 0.1 |
| 12.0 | 95.2 | 0.0 | 95.2 | 92.7 | 79.9 | 87.2 | 94.2 | 0.1 |
| 12.5 | 94.7 | 0.0 | 94.7 | 92.1 | 79.8 | 87.0 | 94.0 | 0.1 |
| 13.0 | 94.7 | 0.0 | 94.7 | 91.9 | 80.1 | 87.0 | 94.0 | 0.1 |
| 13.5 | 94.4 | 0.0 | 94.4 | 91.7 | 79.8 | 86.7 | 93.7 | 0.1 |
| 14.0 | 94.2 | 0.6 | 94.8 | 91.7 | 79.5 | 86.6 | 93.6 | 1.0 |
| 14.5 | 94.2 | 0.7 | 94.9 | 91.4 | 79.2 | 86.3 | 93.3 | 1.0 |
| 15.0 | 93.9 | 0.5 | 94.4 | 91.5 | 78.6 | 85.9 | 92.9 | 1.0 |
| 15.5 | 94.1 | 0.0 | 94.1 | 91.8 | 78.6 | 86.0 | 93.0 | 0.1 |
| 16.0 | 94.6 | 0.0 | 94.6 | 92.3 | 78.8 | 86.4 | 93.4 | 0.1 |
| 16.5 | 95.1 | 0.0 | 95.1 | 92.9 | 78.8 | 86.8 | 93.8 | 0.1 |
| 17.0 | 95.2 | 0.0 | 95.2 | 92.9 | 78.9 | 86.8 | 93.8 | 0.1 |
| 17.5 | 96.0 | 0.0 | 96.0 | 93.1 | 80.6 | 87.7 | 94.7 | 0.1 |
| 18.0 | 96.9 | 0.0 | 96.9 | 93.9 | 81.8 | 88.7 | 95.7 | 0.1 |
| 18.5 | 97.5 | 0.0 | 97.5 | 94.5 | 83.1 | 89.4 | 96.4 | 0.1 |
| 19.0 | 97.4 | 0.0 | 97.4 | 94.1 | 83.4 | 89.2 | 96.2 | 0.1 |
| 19.5 | 96.4 | 0.0 | 96.4 | 93.0 | 82.6 | 88.3 | 95.3 | 0.1 |
| 20.0 | 95.5 | 0.0 | 95.5 | 92.1 | 81.4 | 87.3 | 94.3 | 0.1 |
| 20.5 | 95.0 | 0.5 | 95.5 | 91.8 | 80.4 | 86.7 | 93.7 | 0.9 |
| 21.0 | 96.0 | 0.5 | 96.5 | 93.0 | 81.6 | 87.7 | 94.7 | 0.9 |
| 21.5 | 98.0 | 0.0 | 98.0 | 94.5 | 84.5 | 90.1 | 97.1 | 0.1 |
| 22.0 | 98.2 | 0.0 | 98.2 | 95.3 | 84.5 | 90.4 | 97.4 | 0.1 |
| 22.5 | 98.0 | 0.0 | 98.0 | 95.2 | 84.4 | 90.2 | 97.2 | 0.1 |
| 23.0 | 97.0 | 1.2 | 98.2 | 94.1 | 83.3 | 89.1 | 96.1 | 1.2 |
| 23.5 | 95.6 | 1.3 | 96.9 | 92.5 | 82.1 | 87.7 | 94.7 | 1.2 |
| 24.0 | 95.3 | 0.0 | 95.3 | 92.3 | 81.6 | 87.4 | 94.4 | 0.1 |
| 24.5 | 96.3 | 0.0 | 96.3 | 93.3 | 82.0 | 88.3 | 95.3 | 0.1 |
| 25.0 | 97.3 | 0.0 | 97.3 | 94.6 | 82.7 | 89.4 | 96.4 | 0.1 |
| 25.5 | 97.5 | 0.0 | 97.5 | 94.8 | 82.9 | 89.5 | 96.5 | 0.1 |
| 26.0 | 97.0 | 1.0 | 98.0 | 94.1 | 82.4 | 89.0 | 96.0 | 1.5 |
| 26.5 | 96.2 | 1.2 | 97.4 | 93.0 | 81.7 | 88.3 | 95.3 | 1.5 |
| 27.0 | 96.6 | 0.0 | 96.6 | 93.2 | 82.2 | 88.5 | 95.5 | 0.1 |
| 27.5 | 97.7 | 1.2 | 98.9 | 94.4 | 83.5 | 89.6 | 96.6 | 1.2 |
| 28.0 | 98.7 | 1.2 | 99.9 | 95.6 | 84.8 | 90.7 | 97.7 | 1.2 |
| 28.5 | 99.4 | 0.0 | 99.4 | 96.5 | 84.9 | 91.3 | 98.3 | 0.1 |
| 29.0 | 99.9 | 0.5 | 100.4 | 96.9 | 85.5 | 91.8 | 98.8 | 1.0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 99.9 | 1.0 | 100.9 | 96.9 | 85.6 | 91.8 | 98.8 | 1.4 |
| 30.0 | 99.4 | 0.6 | 100.0 | 96.6 | 84.9 | 91.3 | 98.3 | 1.0 |
| 30.5 | 99.3 | 0.7 | 100.0 | 96.3 | 85.1 | 91.3 | 98.3 | 1.0 |
| 31.0 | 99.7 | 0.8 | 100.5 | 96.5 | 85.3 | 91.5 | 98.5 | 1.0 |
| 31.5 | 99.8 | 0.7 | 100.5 | 96.7 | 85.7 | 91.8 | 98.8 | 1.0 |
| 32.0 | 99.7 | 0.8 | 100.5 | 96.2 | 86.0 | 91.7 | 98.7 | 0.8 |
| 32.5 | 98.9 | 0.7 | 99.6 | 95.4 | 85.1 | 91.0 | 98.0 | 0.4 |
| 33.0 | 98.2 | 0.7 | 98.9 | 94.7 | 84.4 | 90.3 | 97.3 | 0.4 |
| 33.5 | 98.4 | 0.7 | 99.1 | 95.1 | 84.6 | 90.6 | 97.6 | 0.4 |
| 34.0 | 100.3 | 1.1 | 101.4 | 96.5 | 86.3 | 92.1 | 99.1 | 0.8 |
| 34.5 | 100.4 | 1.1 | 101.5 | 96.4 | 86.2 | 92.0 | 99.0 | 0.8 |
| 35.0 | 100.0 | 1.1 | 101.1 | 95.8 | 85.6 | 91.5 | 98.5 | 0.8 |
| 35.5 | 100.0 | 0.8 | 100.8 | 95.7 | 85.5 | 91.5 | 98.5 | 0.2 |
| 36.0 | 100.6 | 0.8 | 101.4 | 96.0 | 86.4 | 92.3 | 99.3 | 0.2 |
| 36.5 | 101.6 | 0.7 | 102.3 | 96.8 | 87.9 | 93.5 | 100.5 | 0.7 |
| 37.0 | 102.6 | 0.9 | 103.5 | 97.5 | 88.5 | 94.3 | 101.3 | 0.7 |
| 37.5 | 103.5 | 1.0 | 104.5 | 98.1 | 89.6 | 95.2 | 102.2 | 0.7 |
| 38.0 | 104.0 | 1.2 | 105.2 | 98.6 | 90.0 | 95.8 | 102.8 | 0.7 |
| 38.5 | 103.9 | 1.3 | 105.2 | 98.8 | 90.1 | 95.8 | 102.8 | 0.7 |
| 39.0 | 103.6 | 0.9 | 104.5 | 98.9 | 89.8 | 95.6 | 102.6 | 1.0 |
| 39.5 | 103.8 | 1.0 | 104.8 | 98.6 | 90.1 | 95.9 | 102.9 | 0.6 |
| 40.0 | 103.1 | 0.7 | 103.8 | 98.1 | 89.5 | 95.3 | 102.3 | 0.6 |
| 40.5 | 102.6 | 0.7 | 103.3 | 97.8 | 88.7 | 94.8 | 101.8 | 0.6 |
| 41.0 | 102.4 | 0.7 | 103.1 | 97.5 | 88.9 | 94.7 | 101.7 | 0.6 |
| 41.5 | 103.2 | 0.9 | 104.1 | 98.6 | 89.5 | 95.5 | 102.5 | 0.6 |
| 42.0 | 103.3 | 1.0 | 104.3 | 98.9 | 89.3 | 95.5 | 102.5 | 0.6 |
| 42.5 | 103.1 | 0.7 | 103.8 | 99.1 | 89.2 | 95.5 | 102.5 | 0.6 |
| 43.0 | 102.3 | 0.0 | 102.3 | 98.3 | 88.7 | 94.8 | 101.8 | 0.1 |
| 43.5 | 101.1 | 0.0 | 101.1 | 96.9 | 87.5 | 93.6 | 100.6 | 0.1 |
| 44.0 | 100.5 | 0.0 | 100.5 | 96.0 | 87.0 | 93.0 | 100.0 | 0.1 |
| 44.5 | 99.8 | 0.0 | 99.8 | 94.9 | 86.6 | 92.3 | 99.3 | 0.1 |
| 45.0 | 99.5 | 0.0 | 99.5 | 94.2 | 86.3 | 92.0 | 99.0 | 0.1 |
| 45.5 | 99.1 | 0.5 | 99.6 | 93.8 | 86.1 | 91.6 | 98.6 | 0.9 |
| 46.0 | 98.3 | 1.0 | 99.3 | 92.8 | 85.2 | 90.8 | 97.8 | 1.6 |
| 46.5 | 97.3 | 1.1 | 98.4 | 91.5 | 84.4 | 89.8 | 96.8 | 1.6 |
| 47.0 | 96.5 | 1.3 | 97.8 | 90.5 | 83.5 | 88.9 | 95.9 | 1.6 |
| 47.5 | 95.7 | 1.2 | 96.9 | 90.0 | 82.5 | 87.9 | 94.9 | 1.6 |
| 48.0 | 95.3 | 1.4 | 96.7 | 90.0 | 81.8 | 87.3 | 94.3 | 1.6 |
| 48.5 | 94.4 | 1.4 | 95.8 | 90.0 | 80.7 | 86.5 | 93.5 | 1.6 |
| 49.0 | 93.4 | 1.3 | 94.7 | 90.1 | 79.7 | 85.7 | 92.7 | 1.6 |
| 49.5 | 92.8 | 1.2 | 94.0 | 90.0 | 78.8 | 85.0 | 92.0 | 1.6 |
| 50.0 | 92.4 | 1.5 | 93.9 | 89.6 | 78.6 | 84.8 | 91.8 | 1.6 |

MAXIMUM VALUES IN BANDS, PNLC =105.5

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 92.3 | 90.7 | 90.0 | 91.3 | 92.1 | 94.1 | 92.4 | 89.0 | 89.0 | 87.8 |
| 83.0 | 81.8 | 79.8 | 79.0 | 78.5 | 76.8 | 75.1 | 73.7 | 70.8 | 68.6 |
| 66.4 | 64.6 | 64.5 | 65.3 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 90.5 | 87.3 | 89.9 | 81.9 | 81.2 | 88.5 | 92.4 | 87.6 | 84.5 | 86.9 |
| 81.0 | 81.4 | 78.7 | 78.5 | 78.5 | 76.8 | 74.4 | 72.8 | 70.0 | 67.3 |
| 65.1 | 63.8 | 64.1 | 64.9 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T | 50.0 | 1.5 | | | | | | |
| PNL | 38.0 | 104.0 | 34.0 | 115.0 | 50.0 | 115.6 | 107.6 | 106.2 |
| PNLT | 38.0 | 105.2 | 32.0 | 115.7 | 50.0 | 116.3 | 108.5 | 107.4 |
| A-LEV | 38.5 | 90.1 | 32.0 | 101.1 | 50.0 | 101.7 | 93.4 | 92.3 |
| N-LEV | 39.5 | 102.9 | 34.0 | 114.1 | 50.0 | 114.7 | 106.5 | 105.1 |

TSC CH-47C #20: 9 DEG APRCH , 60 KT. , 400 FT.

| T | PNL | P.T | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 91.6 | 1.2 | 92.8 | 88.4 | 77.1 | 83.9 | 90.9 | 0.7 |
| 0.5 | 91.9 | 1.0 | 92.9 | 88.5 | 77.3 | 83.9 | 90.9 | 0.7 |
| 1.0 | 92.3 | 1.0 | 93.3 | 88.5 | 77.9 | 84.2 | 91.2 | 0.7 |
| 1.5 | 91.9 | 0.8 | 92.7 | 87.9 | 77.7 | 83.9 | 90.9 | 0.7 |
| 2.0 | 91.0 | 0.8 | 91.8 | 87.4 | 76.8 | 83.3 | 90.3 | 0.7 |
| 2.5 | 90.4 | 0.8 | 91.2 | 87.3 | 76.1 | 82.9 | 89.9 | 0.7 |
| 3.0 | 89.6 | 1.0 | 90.6 | 87.1 | 75.1 | 82.3 | 89.3 | 1.1 |
| 3.5 | 89.2 | 1.1 | 90.3 | 86.8 | 74.3 | 81.9 | 88.9 | 1.1 |
| 4.0 | 89.1 | 0.0 | 89.1 | 86.9 | 74.1 | 81.8 | 88.8 | 0.1 |
| 4.5 | 89.0 | 0.0 | 89.0 | 86.7 | 74.0 | 81.7 | 88.7 | 0.1 |
| 5.0 | 89.1 | 0.0 | 89.1 | 86.3 | 74.3 | 81.7 | 88.7 | 0.1 |
| 5.5 | 89.1 | 0.6 | 89.7 | 86.2 | 74.7 | 81.8 | 88.8 | 0.7 |
| 6.0 | 89.1 | 0.5 | 89.6 | 85.7 | 74.6 | 81.7 | 88.7 | 1.0 |
| 6.5 | 89.1 | 0.6 | 89.7 | 85.8 | 74.6 | 81.7 | 88.7 | 1.0 |
| 7.0 | 89.3 | 1.1 | 90.4 | 85.9 | 75.1 | 82.0 | 89.0 | 1.4 |
| 7.5 | 89.8 | 1.4 | 91.2 | 86.1 | 75.9 | 82.3 | 89.3 | 1.4 |
| 8.0 | 91.1 | 1.4 | 92.5 | 86.9 | 76.9 | 83.1 | 90.1 | 1.4 |
| 8.5 | 92.2 | 1.4 | 93.6 | 87.9 | 78.0 | 84.0 | 91.0 | 1.4 |
| 9.0 | 92.6 | 1.4 | 94.0 | 88.8 | 78.2 | 84.4 | 91.4 | 1.4 |
| 9.5 | 92.9 | 1.0 | 93.9 | 89.5 | 78.3 | 84.6 | 91.6 | 1.0 |
| 10.0 | 93.4 | 1.1 | 94.5 | 89.8 | 78.7 | 85.0 | 92.0 | 1.0 |
| 10.5 | 93.8 | 1.2 | 95.0 | 90.2 | 79.0 | 85.3 | 92.3 | 1.0 |
| 11.0 | 94.2 | 1.1 | 95.3 | 90.5 | 79.6 | 85.7 | 92.7 | 1.0 |
| 11.5 | 94.6 | 1.1 | 95.7 | 90.6 | 80.0 | 86.1 | 93.1 | 1.1 |
| 12.0 | 95.0 | 0.7 | 95.7 | 91.0 | 80.5 | 86.5 | 93.5 | 0.6 |
| 12.5 | 95.9 | 0.8 | 96.7 | 91.6 | 81.6 | 87.4 | 94.4 | 0.6 |
| 13.0 | 96.3 | 1.3 | 97.6 | 92.4 | 82.0 | 87.9 | 94.9 | 1.3 |
| 13.5 | 96.6 | 1.5 | 98.1 | 92.8 | 82.5 | 88.3 | 95.3 | 1.3 |
| 14.0 | 96.9 | 1.5 | 98.4 | 92.8 | 82.9 | 88.6 | 95.6 | 1.3 |
| 14.5 | 97.2 | 1.5 | 98.7 | 92.6 | 83.6 | 89.0 | 96.0 | 1.3 |
| 15.0 | 98.0 | 0.8 | 98.8 | 93.1 | 84.8 | 89.9 | 96.9 | 0.8 |
| 15.5 | 98.0 | 0.9 | 98.9 | 93.3 | 84.8 | 90.1 | 97.1 | 0.8 |
| 16.0 | 97.6 | 0.8 | 98.4 | 93.3 | 84.6 | 90.0 | 97.0 | 0.8 |
| 16.5 | 98.1 | 0.7 | 98.8 | 94.0 | 85.0 | 90.5 | 97.5 | 0.8 |
| 17.0 | 98.8 | 0.8 | 99.6 | 94.9 | 85.9 | 91.4 | 98.4 | 0.8 |
| 17.5 | 99.4 | 1.0 | 100.4 | 95.3 | 86.4 | 92.0 | 99.0 | 1.2 |
| 18.0 | 99.5 | 0.5 | 100.0 | 95.3 | 86.2 | 91.9 | 98.9 | 0.8 |
| 18.5 | 99.3 | 0.0 | 99.3 | 95.1 | 85.8 | 91.6 | 98.6 | 0.1 |
| 19.0 | 99.6 | 0.5 | 100.1 | 95.3 | 85.8 | 91.6 | 98.6 | 0.8 |
| 19.5 | 100.1 | 0.6 | 100.7 | 95.8 | 86.3 | 92.0 | 99.0 | 0.8 |
| 20.0 | 100.3 | 0.6 | 100.9 | 96.0 | 86.5 | 92.2 | 99.2 | 0.8 |
| 20.5 | 100.6 | 0.6 | 101.2 | 96.1 | 86.9 | 92.5 | 99.5 | 0.6 |
| 21.0 | 101.3 | 0.7 | 102.0 | 96.5 | 87.5 | 93.2 | 100.2 | 0.6 |
| 21.5 | 101.6 | 0.8 | 102.4 | 96.7 | 87.8 | 93.6 | 100.6 | 0.6 |
| 22.0 | 102.0 | 0.6 | 102.6 | 97.1 | 88.2 | 94.1 | 101.1 | 0.6 |
| 22.5 | 102.1 | 0.6 | 102.7 | 97.2 | 88.5 | 94.4 | 101.4 | 0.8 |
| 23.0 | 102.3 | 0.7 | 103.0 | 97.6 | 89.0 | 95.0 | 102.0 | 1.0 |
| 23.5 | 102.8 | 0.7 | 103.5 | 98.1 | 89.6 | 95.6 | 102.6 | 1.0 |
| 24.0 | 103.5 | 0.0 | 103.5 | 98.8 | 90.4 | 96.3 | 103.3 | 0.1 |
| 24.5 | 104.3 | 0.5 | 104.8 | 99.7 | 91.0 | 96.9 | 103.9 | 0.5 |
| 25.0 | 105.2 | 0.6 | 105.8 | 100.9 | 91.9 | 97.9 | 104.9 | 0.7 |
| 25.5 | 106.0 | 0.7 | 106.7 | 102.2 | 93.1 | 99.1 | 106.1 | 0.9 |
| 26.0 | 106.1 | 0.7 | 106.8 | 102.5 | 93.5 | 99.4 | 106.4 | 0.9 |
| 26.5 | 106.7 | 0.6 | 107.3 | 103.2 | 94.0 | 100.0 | 107.0 | 0.9 |
| 27.0 | 107.2 | 0.6 | 107.8 | 103.7 | 94.4 | 100.4 | 107.4 | 0.5 |
| 27.5 | 107.5 | 0.6 | 108.1 | 104.2 | 94.7 | 100.8 | 107.8 | 0.5 |
| 28.0 | 107.7 | 0.0 | 107.7 | 104.9 | 94.9 | 101.2 | 108.2 | 0.1 |
| 28.5 | 107.2 | 0.0 | 107.2 | 104.7 | 94.1 | 100.7 | 107.7 | 0.1 |
| 29.0 | 106.3 | 0.0 | 106.3 | 103.8 | 93.0 | 99.8 | 106.8 | 0.1 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 105.9 | 0.9 | 106.8 | 102.9 | 92.0 | 98.9 | 105.9 | 0.4 |
| 30.0 | 105.4 | 0.7 | 106.1 | 101.9 | 91.2 | 98.0 | 105.0 | 0.4 |
| 30.5 | 104.7 | 1.1 | 105.8 | 100.8 | 90.7 | 97.2 | 104.2 | 1.6 |
| 31.0 | 104.1 | 1.1 | 105.2 | 100.0 | 90.1 | 96.4 | 103.4 | 1.6 |
| 31.5 | 103.2 | 1.1 | 104.3 | 99.0 | 89.4 | 95.6 | 102.6 | 1.6 |
| 32.0 | 102.1 | 0.0 | 102.1 | 97.8 | 88.1 | 94.3 | 101.3 | 0.1 |
| 32.5 | 100.8 | 0.0 | 100.8 | 96.4 | 87.0 | 93.0 | 100.0 | 0.1 |
| 33.0 | 99.7 | 0.0 | 99.7 | 95.3 | 85.9 | 91.8 | 98.8 | 0.1 |
| 33.5 | 99.0 | 0.0 | 99.0 | 94.6 | 85.1 | 91.0 | 98.0 | 0.1 |
| 34.0 | 98.2 | 0.0 | 98.2 | 94.2 | 84.1 | 90.0 | 97.0 | 0.1 |
| 34.5 | 97.6 | 0.0 | 97.6 | 93.9 | 83.5 | 89.4 | 96.4 | 0.1 |
| 35.0 | 96.9 | 1.0 | 97.9 | 93.3 | 82.8 | 88.7 | 95.7 | 1.6 |
| 35.5 | 96.1 | 1.3 | 97.4 | 92.7 | 82.1 | 88.0 | 95.0 | 1.6 |
| 36.0 | 95.0 | 1.5 | 96.5 | 91.8 | 80.9 | 87.0 | 94.0 | 1.6 |
| 36.5 | 94.1 | 1.5 | 95.6 | 91.0 | 79.8 | 86.1 | 93.1 | 1.6 |
| 37.0 | 93.0 | 1.3 | 94.3 | 89.9 | 78.5 | 85.0 | 92.0 | 1.6 |
| 37.5 | 92.0 | 1.3 | 93.3 | 88.8 | 77.6 | 84.2 | 91.2 | 1.6 |
| 38.0 | 90.9 | 1.4 | 92.3 | 87.7 | 76.7 | 83.4 | 90.4 | 1.6 |
| 38.5 | 90.2 | 1.4 | 91.6 | 86.9 | 75.9 | 82.8 | 89.8 | 1.6 |

MAXIMUM VALUES IN BANDS, PNLC =108.5

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 90.2 | 87.6 | 91.0 | 97.3 | 99.5 | 97.7 | 95.9 | 95.3 | 94.9 | 91.0 |
| 87.7 | 85.4 | 83.3 | 80.4 | 77.0 | 75.8 | 71.2 | 69.6 | 69.2 | 68.1 |
| 66.7 | 66.0 | 65.4 | 65.5 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 77.1 | 81.4 | 89.1 | 93.4 | 98.9 | 97.1 | 93.1 | 94.5 | 94.9 | 90.5 |
| 87.7 | 85.2 | 82.2 | 79.8 | 76.9 | 73.6 | 70.8 | 68.9 | 67.0 | 65.7 |
| 64.5 | 64.2 | 64.5 | 65.2 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 13.5 | 1.5 | | | | | | |
| PNL | 28.0 | 107.7 | 18.5 | 116.3 | 38.5 | 116.8 | 108.6 | 108.8 |
| PNLT | 27.5 | 108.1 | 21.0 | 117.0 | 38.5 | 117.4 | 109.6 | 109.2 |
| A-LEV | 28.0 | 94.9 | 18.0 | 103.0 | 32.0 | 103.4 | 95.7 | 95.2 |
| N-LEV | 28.0 | 108.2 | 17.0 | 116.1 | 38.5 | 116.6 | 108.7 | 109.3 |

EPNL =107.0

TSC CH-47C #23: FLYOVER, 100 KT., 500 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 86.8 | 0.5 | 87.3 | 79.5 | 71.9 | 79.7 | 86.7 | 0.2 |
| 0.5 | 86.7 | 0.5 | 87.2 | 79.1 | 71.8 | 79.6 | 86.6 | 0.2 |
| 1.0 | 86.6 | 0.6 | 87.2 | 79.0 | 71.7 | 79.5 | 86.5 | 0.2 |
| 1.5 | 86.5 | 0.6 | 87.1 | 79.1 | 71.7 | 79.5 | 86.5 | 0.2 |
| 2.0 | 86.6 | 0.6 | 87.2 | 79.1 | 71.8 | 79.5 | 86.5 | 0.2 |
| 2.5 | 86.9 | 0.6 | 87.5 | 80.1 | 71.9 | 79.7 | 86.7 | 0.2 |
| 3.0 | 87.3 | 0.6 | 87.9 | 80.8 | 72.2 | 80.0 | 87.0 | 0.2 |
| 3.5 | 87.5 | 0.6 | 88.1 | 81.2 | 72.4 | 80.2 | 87.2 | 0.2 |
| 4.0 | 87.4 | 0.6 | 88.0 | 81.1 | 72.4 | 80.2 | 87.2 | 0.2 |
| 4.5 | 87.4 | 0.6 | 88.0 | 80.9 | 72.4 | 80.1 | 87.1 | 0.2 |
| 5.0 | 87.3 | 0.6 | 87.9 | 80.8 | 72.4 | 80.1 | 87.1 | 0.2 |
| 5.5 | 87.3 | 0.6 | 87.9 | 80.7 | 72.3 | 80.0 | 87.0 | 0.2 |
| 6.0 | 87.2 | 0.6 | 87.8 | 80.8 | 72.2 | 79.9 | 86.9 | 0.2 |
| 6.5 | 87.4 | 0.6 | 88.0 | 81.3 | 72.4 | 80.1 | 87.1 | 0.2 |
| 7.0 | 87.3 | 0.6 | 87.9 | 81.5 | 72.2 | 80.1 | 87.1 | 0.2 |
| 7.5 | 87.2 | 0.6 | 87.8 | 81.8 | 72.0 | 80.0 | 87.0 | 0.2 |
| 8.0 | 87.3 | 0.5 | 87.8 | 82.3 | 72.0 | 80.1 | 87.1 | 0.2 |
| 8.5 | 87.4 | 0.5 | 87.9 | 83.0 | 72.0 | 80.2 | 87.2 | 0.2 |
| 9.0 | 87.4 | 0.6 | 88.0 | 83.1 | 72.0 | 80.2 | 87.2 | 0.2 |
| 9.5 | 87.6 | 0.6 | 88.2 | 83.6 | 72.1 | 80.4 | 87.4 | 0.2 |
| 10.0 | 87.7 | 0.6 | 88.3 | 84.1 | 72.2 | 80.5 | 87.5 | 0.2 |
| 10.5 | 88.0 | 0.6 | 88.6 | 84.9 | 72.3 | 80.8 | 87.8 | 0.2 |
| 11.0 | 88.3 | 0.6 | 88.9 | 85.7 | 72.6 | 81.2 | 88.2 | 0.2 |
| 11.5 | 88.8 | 0.6 | 89.4 | 86.6 | 73.0 | 81.7 | 88.7 | 0.2 |
| 12.0 | 89.5 | 0.6 | 90.1 | 87.3 | 73.4 | 82.2 | 89.2 | 0.2 |
| 12.5 | 90.3 | 0.6 | 90.9 | 88.3 | 73.8 | 82.7 | 89.7 | 0.2 |
| 13.0 | 90.7 | 0.6 | 91.3 | 88.8 | 74.2 | 83.1 | 90.1 | 0.2 |
| 13.5 | 91.0 | 0.6 | 91.6 | 89.3 | 74.3 | 83.4 | 90.4 | 0.2 |
| 14.0 | 91.3 | 0.6 | 91.9 | 90.0 | 74.6 | 83.8 | 90.8 | 0.2 |
| 14.5 | 91.5 | 0.6 | 92.1 | 90.4 | 74.7 | 84.0 | 91.0 | 0.2 |
| 15.0 | 91.7 | 0.6 | 92.3 | 91.0 | 74.8 | 84.3 | 91.3 | 0.2 |
| 15.5 | 92.1 | 0.6 | 92.7 | 91.7 | 75.1 | 84.8 | 91.8 | 0.2 |
| 16.0 | 93.1 | 0.6 | 93.7 | 92.6 | 75.9 | 85.6 | 92.6 | 0.5 |
| 16.5 | 94.1 | 0.6 | 94.7 | 93.6 | 77.0 | 86.6 | 93.6 | 0.5 |
| 17.0 | 94.6 | 0.6 | 95.2 | 94.2 | 77.5 | 87.1 | 94.1 | 0.5 |
| 17.5 | 94.5 | 0.6 | 95.1 | 94.3 | 77.4 | 87.1 | 94.1 | 0.5 |
| 18.0 | 94.4 | 0.5 | 94.9 | 94.2 | 77.3 | 87.1 | 94.1 | 0.5 |
| 18.5 | 94.2 | 0.0 | 94.2 | 94.1 | 77.3 | 87.0 | 94.0 | 0.1 |
| 19.0 | 93.9 | 0.5 | 94.4 | 94.0 | 77.1 | 86.8 | 93.8 | 0.2 |
| 19.5 | 93.6 | 0.6 | 94.2 | 93.6 | 76.8 | 86.4 | 93.4 | 0.2 |
| 20.0 | 93.6 | 0.7 | 94.3 | 93.6 | 76.8 | 86.4 | 93.4 | 0.2 |
| 20.5 | 93.6 | 0.7 | 94.3 | 93.5 | 76.9 | 86.5 | 93.5 | 0.2 |
| 21.0 | 93.7 | 0.7 | 94.4 | 93.2 | 76.7 | 86.4 | 93.4 | 0.2 |
| 21.5 | 94.0 | 0.6 | 94.6 | 93.4 | 76.9 | 86.6 | 93.6 | 0.2 |
| 22.0 | 94.6 | 0.0 | 94.6 | 94.1 | 77.6 | 87.3 | 94.3 | 0.1 |
| 22.5 | 94.9 | 0.0 | 94.9 | 94.7 | 78.0 | 87.7 | 94.7 | 0.1 |
| 23.0 | 95.1 | 0.5 | 95.6 | 94.7 | 78.2 | 87.7 | 94.7 | 0.2 |
| 23.5 | 94.9 | 0.6 | 95.5 | 94.8 | 78.0 | 87.6 | 94.6 | 0.2 |
| 24.0 | 95.0 | 0.6 | 95.6 | 95.1 | 78.1 | 87.8 | 94.8 | 0.2 |
| 24.5 | 94.7 | 0.6 | 95.3 | 94.9 | 77.6 | 87.4 | 94.4 | 0.2 |
| 25.0 | 94.8 | 0.5 | 95.3 | 95.3 | 77.6 | 87.7 | 94.7 | 0.2 |
| 25.5 | 95.4 | 0.0 | 95.4 | 96.0 | 78.2 | 88.3 | 95.3 | 0.1 |
| 26.0 | 95.6 | 0.6 | 96.2 | 96.4 | 78.5 | 88.6 | 95.6 | 0.2 |
| 26.5 | 96.0 | 0.6 | 96.6 | 96.9 | 78.7 | 88.9 | 95.9 | 0.2 |
| 27.0 | 96.4 | 0.7 | 97.1 | 97.4 | 78.9 | 89.3 | 96.3 | 0.2 |
| 27.5 | 96.7 | 0.7 | 97.4 | 97.3 | 79.6 | 89.3 | 96.3 | 0.2 |
| 28.0 | 96.8 | 0.8 | 97.6 | 97.0 | 80.0 | 89.2 | 96.2 | 0.2 |
| 28.5 | 96.6 | 0.8 | 97.4 | 96.6 | 79.9 | 88.9 | 95.9 | 0.2 |
| 29.0 | 96.4 | 0.9 | 97.3 | 96.2 | 79.7 | 88.5 | 95.5 | 0.2 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 96.1 | 0.9 | 97.0 | 95.7 | 79.7 | 88.2 | 95.2 | 0.2 |
| 30.0 | 95.8 | 0.9 | 96.7 | 94.9 | 79.8 | 87.9 | 94.9 | 0.2 |
| 30.5 | 95.3 | 0.7 | 96.0 | 93.9 | 79.7 | 87.4 | 94.4 | 0.2 |
| 31.0 | 95.4 | 0.0 | 95.4 | 93.0 | 80.2 | 87.5 | 94.5 | 0.1 |
| 31.5 | 96.2 | 0.6 | 96.8 | 92.7 | 80.9 | 88.0 | 95.0 | 0.7 |
| 32.0 | 96.7 | 0.9 | 97.6 | 92.3 | 80.9 | 88.2 | 95.2 | 0.7 |
| 32.5 | 97.1 | 1.2 | 98.3 | 93.0 | 81.3 | 88.8 | 95.8 | 0.7 |
| 33.0 | 97.4 | 1.0 | 98.4 | 93.5 | 81.6 | 89.4 | 96.4 | 0.2 |
| 33.5 | 97.2 | 0.9 | 98.1 | 93.0 | 81.3 | 89.1 | 96.1 | 0.2 |
| 34.0 | 97.5 | 0.0 | 97.5 | 93.8 | 81.5 | 89.5 | 96.5 | 0.1 |
| 34.5 | 98.1 | 0.0 | 98.1 | 94.6 | 82.0 | 90.1 | 97.1 | 0.1 |
| 35.0 | 98.6 | 0.0 | 98.6 | 95.2 | 82.4 | 90.5 | 97.5 | 0.1 |
| 35.5 | 98.2 | 0.0 | 98.2 | 94.8 | 82.3 | 90.2 | 97.2 | 0.1 |
| 36.0 | 98.8 | 0.0 | 98.8 | 95.3 | 83.0 | 90.8 | 97.8 | 0.1 |
| 36.5 | 99.1 | 0.7 | 99.8 | 95.3 | 83.6 | 91.0 | 98.0 | 0.5 |
| 37.0 | 98.8 | 0.8 | 99.6 | 94.8 | 83.7 | 90.7 | 97.7 | 0.5 |
| 37.5 | 98.1 | 0.7 | 98.8 | 93.8 | 83.4 | 90.1 | 97.1 | 0.2 |
| 38.0 | 96.8 | 0.7 | 97.5 | 92.2 | 82.5 | 88.9 | 95.9 | 0.2 |
| 38.5 | 95.4 | 0.6 | 96.0 | 90.7 | 81.3 | 87.6 | 94.6 | 0.5 |
| 39.0 | 94.9 | 0.0 | 94.9 | 90.2 | 80.5 | 86.9 | 93.9 | 0.1 |
| 39.5 | 94.5 | 0.0 | 94.5 | 89.8 | 80.1 | 86.4 | 93.4 | 0.1 |
| 40.0 | 93.6 | 0.0 | 93.6 | 88.9 | 79.3 | 85.6 | 92.6 | 0.1 |
| 40.5 | 92.6 | 0.0 | 92.6 | 87.8 | 78.5 | 84.8 | 91.8 | 0.1 |
| 41.0 | 91.6 | 0.6 | 92.2 | 86.6 | 77.7 | 84.0 | 91.0 | 0.3 |
| 41.5 | 90.8 | 0.6 | 91.4 | 85.5 | 76.9 | 83.3 | 90.3 | 0.3 |
| 42.0 | 89.9 | 0.7 | 90.6 | 84.1 | 76.1 | 82.5 | 89.5 | 0.3 |
| 42.5 | 89.3 | 0.7 | 90.0 | 82.8 | 75.7 | 82.0 | 89.0 | 0.3 |
| 43.0 | 88.8 | 0.6 | 89.4 | 81.7 | 75.2 | 81.6 | 88.6 | 0.3 |
| 43.5 | 88.4 | 0.5 | 88.9 | 81.0 | 74.7 | 81.2 | 88.2 | 0.3 |
| 44.0 | 88.2 | 0.0 | 88.2 | 80.4 | 74.3 | 80.9 | 87.9 | 0.1 |
| 44.5 | 88.2 | 0.0 | 88.2 | 80.2 | 74.5 | 81.0 | 88.0 | 0.1 |
| 45.0 | 88.5 | 1.1 | 89.6 | 80.2 | 75.3 | 81.5 | 88.5 | 1.5 |
| 45.5 | 88.3 | 0.0 | 88.3 | 79.8 | 75.1 | 81.3 | 88.3 | 0.1 |
| 46.0 | 87.8 | 0.0 | 87.8 | 79.2 | 74.2 | 80.7 | 87.7 | 0.1 |
| 46.5 | 87.4 | 0.0 | 87.4 | 78.7 | 73.3 | 80.2 | 87.2 | 0.1 |
| 47.0 | 87.1 | 0.0 | 87.1 | 78.4 | 73.0 | 80.0 | 87.0 | 0.1 |

MAXIMUM VALUES IN BANDS, PNLC =100.6

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 89.3 | 93.5 | 89.5 | 88.9 | 90.1 | 88.4 | 85.3 | 81.7 | 78.4 | 78.8 |
| 74.4 | 73.4 | 74.2 | 72.5 | 71.5 | 72.1 | 68.8 | 67.3 | 66.6 | 66.0 |
| 64.9 | 64.4 | 64.4 | 65.1 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 86.3 | 82.7 | 80.1 | 86.6 | 90.1 | 88.4 | 83.0 | 77.9 | 77.6 | 73.5 |
| 73.0 | 72.8 | 73.4 | 71.4 | 70.5 | 71.1 | 67.8 | 66.8 | 66.6 | 66.0 |
| 64.8 | 64.2 | 64.4 | 65.1 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 32.5 | 1.2 | | | | | | |
| PNL | 36.5 | 99.1 | 31.5 | 110.3 | 47.0 | 110.6 | 102.3 | 101.0 |
| PNLT | 36.5 | 99.8 | 31.5 | 110.8 | 47.0 | 111.2 | 103.0 | 101.7 |
| A-LEV | 37.0 | 83.7 | 34.5 | 94.4 | 47.0 | 94.8 | 87.3 | 85.6 |
| N-LEV | 36.5 | 98.0 | 33.5 | 109.7 | 47.0 | 110.0 | 101.5 | 99.9 |

EPNL =100.8

TSC CH-47C #24: FLYOVER, 141 KT., 500 FT.

| T | PNL | P T | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 86.7 | 0.5 | 87.2 | 79.1 | 71.9 | 79.6 | 86.6 | 0.3 |
| 0.5 | 86.7 | 0.6 | 87.3 | 79.1 | 71.9 | 79.6 | 86.6 | 0.3 |
| 1.0 | 86.8 | 0.6 | 87.4 | 79.1 | 72.1 | 79.7 | 86.7 | 0.3 |
| 1.5 | 87.0 | 0.6 | 87.6 | 79.3 | 72.2 | 79.8 | 86.8 | 0.3 |
| 2.0 | 87.1 | 0.5 | 87.6 | 79.7 | 72.2 | 79.9 | 86.9 | 0.3 |
| 2.5 | 87.0 | 0.0 | 87.0 | 79.5 | 72.2 | 79.8 | 86.8 | 0.1 |
| 3.0 | 87.1 | 0.0 | 87.1 | 79.6 | 72.2 | 79.9 | 86.9 | 0.1 |
| 3.5 | 87.3 | 0.0 | 87.3 | 80.1 | 72.4 | 80.1 | 87.1 | 0.1 |
| 4.0 | 87.4 | 0.7 | 88.1 | 80.6 | 72.5 | 80.1 | 87.1 | 0.4 |
| 4.5 | 87.5 | 0.8 | 88.3 | 81.1 | 72.6 | 80.2 | 87.2 | 0.4 |
| 5.0 | 87.7 | 0.9 | 88.6 | 81.5 | 72.7 | 80.4 | 87.4 | 0.4 |
| 5.5 | 87.9 | 0.9 | 88.8 | 82.2 | 72.8 | 80.6 | 87.6 | 0.4 |
| 6.0 | 88.1 | 1.0 | 89.1 | 82.6 | 73.0 | 80.8 | 87.8 | 0.4 |
| 6.5 | 88.3 | 1.0 | 89.3 | 83.1 | 73.2 | 81.0 | 88.0 | 0.4 |
| 7.0 | 88.3 | 1.0 | 89.3 | 83.2 | 73.3 | 81.1 | 88.1 | 0.4 |
| 7.5 | 88.4 | 1.0 | 89.4 | 83.3 | 73.5 | 81.2 | 88.2 | 0.4 |
| 8.0 | 88.6 | 0.7 | 89.3 | 83.8 | 73.7 | 81.4 | 88.4 | 0.4 |
| 8.5 | 88.7 | 0.6 | 89.5 | 84.3 | 74.0 | 81.7 | 88.7 | 0.6 |
| 9.0 | 89.1 | 0.5 | 89.6 | 84.6 | 74.3 | 81.9 | 88.9 | 0.6 |
| 9.5 | 89.5 | 0.6 | 90.1 | 85.2 | 74.7 | 82.2 | 89.2 | 0.3 |
| 10.0 | 89.9 | 0.6 | 90.5 | 85.9 | 74.9 | 82.5 | 89.5 | 0.3 |
| 10.5 | 90.1 | 0.6 | 90.7 | 86.3 | 75.0 | 82.6 | 89.6 | 0.3 |
| 11.0 | 90.7 | 0.0 | 90.7 | 87.6 | 75.5 | 83.3 | 90.3 | 0.1 |
| 11.5 | 91.7 | 0.0 | 91.7 | 89.1 | 76.1 | 84.1 | 91.1 | 0.1 |
| 12.0 | 92.6 | 0.0 | 92.6 | 90.2 | 76.9 | 84.9 | 91.9 | 0.1 |
| 12.5 | 93.9 | 0.0 | 93.9 | 91.9 | 78.2 | 86.2 | 93.2 | 0.1 |
| 13.0 | 95.7 | 0.0 | 95.7 | 94.1 | 80.1 | 88.2 | 95.2 | 0.1 |
| 13.5 | 98.0 | 0.0 | 98.0 | 96.5 | 83.0 | 90.7 | 97.7 | 0.1 |
| 14.0 | 100.2 | 0.0 | 100.2 | 99.0 | 85.3 | 93.1 | 100.1 | 0.1 |
| 14.5 | 101.6 | 0.0 | 101.6 | 100.7 | 86.8 | 94.7 | 101.7 | 0.1 |
| 15.0 | 102.6 | 0.0 | 102.6 | 102.0 | 87.9 | 96.0 | 103.0 | 0.1 |
| 15.5 | 103.5 | 0.0 | 103.5 | 103.0 | 88.8 | 97.0 | 104.0 | 0.1 |
| 16.0 | 104.4 | 0.0 | 104.4 | 103.8 | 89.9 | 98.0 | 105.0 | 0.1 |
| 16.5 | 104.8 | 0.0 | 104.8 | 104.2 | 90.5 | 98.5 | 105.5 | 0.1 |
| 17.0 | 104.9 | 0.0 | 104.9 | 104.5 | 90.8 | 98.8 | 105.8 | 0.1 |
| 17.5 | 104.8 | 0.0 | 104.8 | 104.4 | 90.5 | 98.7 | 105.7 | 0.1 |
| 18.0 | 104.3 | 0.0 | 104.3 | 103.9 | 89.8 | 98.1 | 105.1 | 0.1 |
| 18.5 | 103.5 | 0.0 | 103.5 | 103.1 | 88.7 | 97.2 | 104.2 | 0.1 |
| 19.0 | 102.8 | 0.5 | 103.3 | 102.3 | 87.7 | 96.3 | 103.3 | 0.4 |
| 19.5 | 102.0 | 0.6 | 102.6 | 101.5 | 86.7 | 95.4 | 102.4 | 0.2 |
| 20.0 | 101.2 | 0.8 | 102.0 | 100.9 | 85.8 | 94.6 | 101.6 | 0.2 |
| 20.5 | 100.5 | 1.1 | 101.6 | 100.4 | 85.0 | 93.9 | 100.9 | 0.2 |
| 21.0 | 100.6 | 1.3 | 101.9 | 100.6 | 85.1 | 94.1 | 101.1 | 0.2 |
| 21.5 | 101.1 | 1.4 | 102.5 | 101.6 | 86.0 | 95.1 | 102.1 | 0.2 |
| 22.0 | 101.8 | 1.5 | 103.3 | 102.7 | 86.9 | 96.2 | 103.2 | 0.2 |
| 22.5 | 102.2 | 1.5 | 103.7 | 103.3 | 87.2 | 96.7 | 103.7 | 0.2 |
| 23.0 | 102.4 | 1.5 | 103.9 | 103.8 | 87.3 | 96.9 | 103.9 | 0.2 |
| 23.5 | 103.2 | 1.4 | 104.6 | 104.6 | 87.5 | 97.5 | 104.5 | 0.2 |
| 24.0 | 103.7 | 1.4 | 105.1 | 105.3 | 87.7 | 98.0 | 105.0 | 0.2 |
| 24.5 | 104.3 | 1.3 | 105.6 | 105.6 | 87.8 | 98.1 | 105.1 | 0.2 |
| 25.0 | 103.6 | 1.3 | 104.9 | 104.9 | 86.8 | 97.2 | 104.2 | 0.2 |
| 25.5 | 102.8 | 1.2 | 104.0 | 103.9 | 86.0 | 96.1 | 103.1 | 0.2 |
| 26.0 | 101.9 | 1.0 | 102.9 | 103.1 | 85.0 | 95.0 | 102.0 | 0.2 |
| 26.5 | 101.5 | 0.8 | 102.3 | 102.1 | 84.5 | 94.0 | 101.0 | 0.2 |
| 27.0 | 100.9 | 0.0 | 100.9 | 100.9 | 84.7 | 93.3 | 100.3 | 0.1 |
| 27.5 | 100.9 | 0.0 | 100.9 | 99.7 | 85.2 | 93.1 | 100.1 | 0.1 |
| 28.0 | 102.1 | 0.6 | 102.7 | 99.1 | 86.4 | 93.9 | 100.9 | 1.0 |
| 28.5 | 102.6 | 0.0 | 102.6 | 99.3 | 87.1 | 94.7 | 101.7 | 0.1 |
| 29.0 | 102.5 | 0.0 | 102.5 | 99.4 | 86.8 | 94.6 | 101.6 | 0.1 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 102.9 | 0.0 | 102.9 | 99.8 | 87.2 | 95.1 | 102.1 | 0.1 |
| 30.0 | 103.0 | 0.0 | 103.0 | 100.0 | 87.3 | 95.2 | 102.2 | 0.1 |
| 30.5 | 102.1 | 0.0 | 102.1 | 98.8 | 86.5 | 94.1 | 101.1 | 0.1 |
| 31.0 | 101.3 | 0.7 | 102.0 | 97.5 | 85.9 | 93.1 | 100.1 | 0.9 |
| 31.5 | 100.4 | 0.7 | 101.1 | 96.4 | 85.5 | 92.2 | 99.2 | 0.5 |
| 32.0 | 98.9 | 0.7 | 99.6 | 94.5 | 84.3 | 90.8 | 97.8 | 0.5 |
| 32.5 | 97.3 | 0.7 | 98.0 | 92.8 | 83.0 | 89.4 | 96.4 | 0.5 |
| 33.0 | 95.8 | 0.6 | 96.4 | 91.0 | 81.7 | 87.9 | 94.9 | 0.5 |
| 33.5 | 94.5 | 0.0 | 94.5 | 89.5 | 80.6 | 86.8 | 93.8 | 0.1 |
| 34.0 | 93.4 | 0.0 | 93.4 | 88.1 | 80.0 | 85.9 | 92.9 | 0.1 |
| 34.5 | 92.2 | 0.0 | 92.2 | 86.6 | 78.6 | 84.6 | 91.6 | 0.1 |
| 35.0 | 90.9 | 0.0 | 90.9 | 85.0 | 77.3 | 83.4 | 90.4 | 0.1 |
| 35.5 | 90.2 | 0.0 | 90.2 | 83.9 | 76.7 | 82.7 | 89.7 | 0.1 |
| 36.0 | 89.6 | 0.0 | 89.6 | 82.6 | 76.1 | 82.2 | 89.2 | 0.1 |

MAXIMUM VALUES IN BANDS, PNLC =107.1

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 94.2 | 101.0 | 97.4 | 99.7 | 97.4 | 95.4 | 94.6 | 91.5 | 87.8 | 86.4 |
| 80.5 | 75.6 | 75.9 | 74.3 | 72.7 | 72.3 | 70.6 | 70.1 | 69.4 | 68.5 |
| 67.3 | 65.8 | 65.0 | 65.4 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 88.6 | 101.0 | 97.4 | 99.7 | 97.4 | 92.4 | 89.8 | 79.7 | 78.6 | 80.6 |
| 76.1 | 71.0 | 67.2 | 66.2 | 63.4 | 62.4 | 63.7 | 61.1 | 60.3 | 60.1 |
| 60.9 | 62.2 | 63.8 | 64.9 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 22.0 | 1.5 | | | | | | |
| PNL | 17.0 | 104.9 | 21.0 | 115.4 | 36.0 | 115.6 | 106.4 | 105.7 |
| PNLT | 24.5 | 105.6 | 21.0 | 116.0 | 36.0 | 116.1 | 107.1 | 106.4 |
| A-LEV | 17.0 | 90.8 | 20.5 | 100.2 | 36.0 | 100.4 | 92.2 | 91.6 |
| N-LEV | 17.0 | 105.8 | 20.0 | 115.7 | 36.0 | 115.9 | 107.0 | 106.6 |

EPNL =106.0

TSC CH-47C #27: FLYOVER, 141 KT., 500 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 86.4 | 0.0 | 86.4 | 78.2 | 71.7 | 79.4 | 86.4 | 0.1 |
| 0.5 | 86.7 | 0.0 | 86.7 | 78.9 | 71.9 | 79.6 | 86.6 | 0.1 |
| 1.0 | 87.1 | 0.0 | 87.1 | 79.8 | 72.1 | 79.9 | 86.9 | 0.1 |
| 1.5 | 87.4 | 0.5 | 87.9 | 80.7 | 72.3 | 80.1 | 87.1 | 0.4 |
| 2.0 | 87.5 | 0.5 | 88.0 | 80.8 | 72.6 | 80.2 | 87.2 | 0.4 |
| 2.5 | 87.7 | 0.0 | 87.7 | 80.6 | 72.9 | 80.3 | 87.3 | 0.1 |
| 3.0 | 88.0 | 0.0 | 88.0 | 81.2 | 73.3 | 80.5 | 87.5 | 0.1 |
| 3.5 | 88.2 | 0.0 | 88.2 | 82.0 | 73.4 | 80.7 | 87.7 | 0.1 |
| 4.0 | 88.4 | 0.0 | 88.4 | 82.3 | 73.7 | 80.8 | 87.8 | 0.1 |
| 4.5 | 88.6 | 0.0 | 88.6 | 82.5 | 73.9 | 81.0 | 88.0 | 0.1 |
| 5.0 | 88.9 | 0.7 | 89.6 | 83.6 | 74.3 | 81.3 | 88.3 | 0.5 |
| 5.5 | 89.6 | 1.1 | 90.7 | 84.6 | 74.7 | 81.8 | 88.8 | 0.5 |
| 6.0 | 90.9 | 1.1 | 92.0 | 86.0 | 75.9 | 82.8 | 89.8 | 0.5 |
| 6.5 | 92.1 | 1.0 | 93.1 | 87.4 | 77.5 | 84.0 | 91.0 | 0.2 |
| 7.0 | 94.1 | 1.3 | 95.4 | 89.9 | 79.1 | 85.8 | 92.8 | 0.2 |
| 7.5 | 94.8 | 1.3 | 96.1 | 91.1 | 79.6 | 86.4 | 93.4 | 0.2 |
| 8.0 | 95.1 | 1.4 | 96.5 | 91.8 | 80.0 | 86.8 | 93.8 | 0.2 |
| 8.5 | 95.1 | 1.7 | 96.8 | 93.1 | 79.6 | 86.9 | 93.9 | 0.2 |
| 9.0 | 96.2 | 1.5 | 97.7 | 94.9 | 79.9 | 87.9 | 94.9 | 0.2 |
| 9.5 | 97.9 | 1.4 | 99.3 | 96.9 | 82.0 | 90.0 | 97.0 | 0.2 |
| 10.0 | 101.6 | 1.1 | 102.7 | 100.5 | 86.1 | 94.2 | 101.2 | 0.2 |
| 10.5 | 105.6 | 0.9 | 106.5 | 104.4 | 91.6 | 99.0 | 106.0 | 0.2 |
| 11.0 | 107.4 | 0.7 | 108.1 | 106.3 | 94.1 | 101.2 | 108.2 | 0.2 |
| 11.5 | 107.6 | 0.6 | 108.2 | 106.8 | 94.2 | 101.5 | 108.5 | 0.2 |
| 12.0 | 107.6 | 0.7 | 108.3 | 106.6 | 93.9 | 101.3 | 108.3 | 0.2 |
| 12.5 | 107.0 | 0.8 | 107.8 | 106.1 | 93.0 | 100.6 | 107.6 | 0.2 |
| 13.0 | 107.4 | 1.0 | 108.4 | 106.8 | 93.1 | 101.1 | 108.1 | 0.2 |
| 13.5 | 108.0 | 1.2 | 109.2 | 107.4 | 93.5 | 101.6 | 108.6 | 0.2 |
| 14.0 | 108.2 | 1.5 | 109.7 | 107.9 | 93.3 | 101.7 | 108.7 | 0.2 |
| 14.5 | 108.3 | 1.6 | 109.9 | 108.0 | 93.3 | 101.7 | 108.7 | 0.2 |
| 15.0 | 108.2 | 1.5 | 109.7 | 107.7 | 93.3 | 101.4 | 108.4 | 0.2 |
| 15.5 | 107.4 | 1.5 | 108.9 | 107.2 | 92.2 | 100.6 | 107.6 | 0.2 |
| 16.0 | 106.6 | 1.6 | 108.2 | 106.7 | 91.1 | 99.8 | 106.8 | 0.2 |
| 16.5 | 105.9 | 1.6 | 107.5 | 105.9 | 90.4 | 98.9 | 105.9 | 0.2 |
| 17.0 | 105.1 | 1.7 | 106.8 | 105.1 | 89.6 | 98.1 | 105.1 | 0.2 |
| 17.5 | 104.2 | 1.6 | 105.8 | 104.0 | 88.8 | 97.0 | 104.0 | 0.2 |
| 18.0 | 103.6 | 1.1 | 104.7 | 102.9 | 88.7 | 96.3 | 103.3 | 0.2 |
| 18.5 | 103.6 | 0.7 | 104.3 | 101.9 | 88.5 | 95.7 | 102.7 | 0.8 |
| 19.0 | 103.1 | 0.0 | 103.1 | 101.0 | 88.0 | 95.2 | 102.2 | 0.1 |
| 19.5 | 103.2 | 0.0 | 103.2 | 100.0 | 87.9 | 95.1 | 102.1 | 0.1 |
| 20.0 | 103.3 | 0.0 | 103.3 | 99.9 | 88.0 | 95.4 | 102.4 | 0.1 |
| 20.5 | 104.2 | 0.0 | 104.2 | 100.9 | 88.7 | 96.4 | 103.4 | 0.1 |
| 21.0 | 104.2 | 0.0 | 104.2 | 101.1 | 88.7 | 96.5 | 103.5 | 0.1 |
| 21.5 | 103.4 | 0.0 | 103.4 | 100.3 | 87.7 | 95.6 | 102.6 | 0.1 |
| 22.0 | 103.2 | 0.0 | 103.2 | 100.0 | 87.7 | 95.3 | 102.3 | 0.1 |
| 22.5 | 102.3 | 0.0 | 102.3 | 98.9 | 87.1 | 94.3 | 101.3 | 0.1 |
| 23.0 | 100.8 | 0.0 | 100.8 | 97.1 | 85.9 | 92.8 | 99.8 | 0.1 |
| 23.5 | 99.2 | 0.0 | 99.2 | 95.1 | 84.6 | 91.2 | 98.2 | 0.1 |
| 24.0 | 97.5 | 0.0 | 97.5 | 93.1 | 83.0 | 89.5 | 96.5 | 0.1 |
| 24.5 | 96.1 | 0.6 | 96.7 | 91.2 | 82.0 | 88.2 | 95.2 | 0.5 |
| 25.0 | 94.3 | 0.6 | 94.9 | 89.3 | 80.3 | 86.6 | 93.6 | 0.5 |
| 25.5 | 93.0 | 0.0 | 93.0 | 87.7 | 79.4 | 85.5 | 92.5 | 0.1 |
| 26.0 | 91.8 | 0.0 | 91.8 | 85.9 | 78.1 | 84.3 | 91.3 | 0.1 |

MAXIMUM VALUES IN BANDS, PNLC =109.8



| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 95.9 | 101.0 | 97.3 | 102.2 | 100.3 | 99.0 | 97.1 | 95.2 | 91.9 | 91.3 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 86.6 | 84.7 | 82.5 | 78.3 | 75.5 | 73.4 | 72.4 | 72.0 | 70.5 | 69.0 |
| 67.5 | 65.6 | 65.0 | 65.4 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 86.9 | 101.7 | 97.0 | 102.2 | 100.3 | 98.9 | 96.5 | 90.7 | 85.4 | 84.0 |
| 83.7 | 83.8 | 82.5 | 77.3 | 75.5 | 72.2 | 70.3 | 66.5 | 63.9 | 62.2 |
| 61.9 | 62.8 | 64.0 | 65.4 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 8.5 | 1.7 | | | | | | |
| PNL | 14.5 | 108.3 | 14.5 | 117.1 | 22.5 | 117.3 | 108.2 | 107.1 |
| PNLT | 14.5 | 109.9 | 14.0 | 118.1 | 21.0 | 118.3 | 109.6 | 108.4 |
| A-LEV | 11.5 | 94.2 | 14.5 | 102.5 | 21.5 | 102.6 | 94.1 | 92.8 |
| N-LEV | 14.0 | 108.7 | 14.0 | 117.3 | 21.0 | 117.4 | 108.4 | 107.2 |

EPNL =108.1

TSC CH-47C #28: FLYOVER, 150 KT., 500 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 87.7 | 0.0 | 87.7 | 80.3 | 73.1 | 80.3 | 87.3 | 0.1 |
| 0.5 | 88.4 | 0.6 | 89.0 | 82.2 | 73.7 | 81.0 | 88.0 | 0.6 |
| 1.0 | 88.7 | 0.8 | 89.5 | 83.2 | 74.1 | 81.3 | 88.3 | 0.6 |
| 1.5 | 88.9 | 0.6 | 89.5 | 83.4 | 74.4 | 81.5 | 88.5 | 0.6 |
| 2.0 | 89.2 | 0.7 | 89.9 | 84.1 | 74.7 | 81.7 | 88.7 | 0.6 |
| 2.5 | 89.1 | 0.6 | 89.7 | 84.6 | 74.5 | 81.6 | 88.6 | 0.6 |
| 3.0 | 89.5 | 0.0 | 89.5 | 86.0 | 74.7 | 82.0 | 89.0 | 0.1 |
| 3.5 | 90.5 | 0.0 | 90.5 | 88.1 | 75.4 | 83.1 | 90.1 | 0.1 |
| 4.0 | 93.0 | 0.0 | 93.0 | 90.9 | 76.9 | 85.0 | 92.0 | 0.1 |
| 4.5 | 95.1 | 0.0 | 95.1 | 93.7 | 78.3 | 87.2 | 94.2 | 0.1 |
| 5.0 | 97.6 | 0.0 | 97.6 | 96.7 | 81.1 | 90.0 | 97.0 | 0.1 |
| 5.5 | 99.6 | 0.6 | 100.2 | 99.3 | 83.3 | 92.5 | 99.5 | 0.2 |
| 6.0 | 101.7 | 0.7 | 102.4 | 101.6 | 85.8 | 94.8 | 101.8 | 0.2 |
| 6.5 | 104.0 | 0.9 | 104.9 | 103.9 | 88.3 | 97.2 | 104.2 | 0.2 |
| 7.0 | 105.8 | 1.0 | 106.8 | 105.9 | 90.3 | 99.3 | 106.3 | 0.2 |
| 7.5 | 107.7 | 1.0 | 108.7 | 107.5 | 92.8 | 101.2 | 108.2 | 0.2 |
| 8.0 | 109.2 | 0.9 | 110.1 | 108.7 | 94.8 | 102.8 | 109.8 | 0.2 |
| 8.5 | 109.4 | 0.8 | 110.2 | 108.8 | 95.2 | 103.1 | 110.1 | 0.2 |
| 9.0 | 109.1 | 0.6 | 109.7 | 108.6 | 95.0 | 102.9 | 109.9 | 0.2 |
| 9.5 | 108.3 | 0.0 | 108.3 | 107.6 | 93.8 | 101.8 | 108.8 | 0.1 |
| 10.0 | 107.7 | 0.0 | 107.7 | 107.0 | 93.0 | 100.9 | 107.9 | 0.1 |
| 10.5 | 107.1 | 0.6 | 107.7 | 106.4 | 92.1 | 100.2 | 107.2 | 0.2 |
| 11.0 | 107.0 | 1.0 | 108.0 | 106.6 | 91.8 | 100.1 | 107.1 | 0.2 |
| 11.5 | 107.3 | 1.2 | 108.5 | 106.8 | 92.0 | 100.3 | 107.3 | 0.2 |
| 12.0 | 107.3 | 1.4 | 108.7 | 107.1 | 92.2 | 100.6 | 107.6 | 0.2 |
| 12.5 | 107.4 | 1.6 | 109.0 | 107.3 | 92.1 | 100.6 | 107.6 | 0.2 |
| 13.0 | 107.3 | 1.7 | 109.0 | 107.3 | 91.7 | 100.4 | 107.4 | 0.2 |
| 13.5 | 106.7 | 1.7 | 108.4 | 106.8 | 91.0 | 99.8 | 106.8 | 0.2 |
| 14.0 | 105.9 | 1.6 | 107.5 | 106.0 | 90.2 | 98.8 | 105.8 | 0.2 |
| 14.5 | 105.1 | 1.5 | 106.6 | 104.5 | 89.8 | 97.7 | 104.7 | 0.2 |
| 15.0 | 104.8 | 0.9 | 105.7 | 103.2 | 90.0 | 97.2 | 104.2 | 0.2 |
| 15.5 | 105.0 | 0.7 | 105.7 | 102.3 | 90.1 | 97.1 | 104.1 | 0.2 |
| 16.0 | 104.8 | 0.7 | 105.5 | 101.3 | 89.8 | 96.8 | 103.8 | 0.2 |
| 16.5 | 104.5 | 0.0 | 104.5 | 101.0 | 89.5 | 96.8 | 103.8 | 0.1 |
| 17.0 | 104.2 | 0.0 | 104.2 | 100.5 | 89.0 | 96.3 | 103.3 | 0.1 |
| 17.5 | 104.1 | 0.0 | 104.1 | 100.3 | 89.0 | 96.1 | 103.1 | 0.1 |
| 18.0 | 103.4 | 0.0 | 103.4 | 99.4 | 88.9 | 95.5 | 102.5 | 0.1 |
| 18.5 | 102.2 | 0.0 | 102.2 | 97.9 | 88.1 | 94.4 | 101.4 | 0.1 |
| 19.0 | 100.6 | 0.0 | 100.6 | 96.0 | 86.7 | 92.8 | 99.8 | 0.1 |
| 19.5 | 99.0 | 0.0 | 99.0 | 94.3 | 85.2 | 91.3 | 98.3 | 0.1 |
| 20.0 | 97.4 | 0.0 | 97.4 | 92.5 | 83.7 | 89.7 | 96.7 | 0.1 |
| 20.5 | 95.7 | 0.0 | 95.7 | 90.8 | 82.0 | 88.0 | 95.0 | 0.1 |
| 21.0 | 94.5 | 0.0 | 94.5 | 89.4 | 80.6 | 86.7 | 93.7 | 0.1 |
| 21.5 | 94.2 | 0.0 | 94.2 | 88.7 | 80.1 | 86.2 | 93.2 | 0.1 |
| 22.0 | 93.6 | 0.0 | 93.6 | 87.7 | 79.7 | 85.6 | 92.6 | 0.1 |
| 22.5 | 92.0 | 0.0 | 92.0 | 86.2 | 78.1 | 84.2 | 91.2 | 0.1 |
| 23.0 | 91.3 | 0.0 | 91.3 | 85.5 | 77.7 | 83.7 | 90.7 | 0.1 |
| 23.5 | 91.6 | 0.0 | 91.6 | 85.2 | 78.4 | 83.9 | 90.9 | 0.1 |
| 24.0 | 90.6 | 0.0 | 90.6 | 84.0 | 77.3 | 83.0 | 90.0 | 0.1 |

MAXIMUM VALUES IN BANDS, PNLC =110.5

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 94.9 | 102.8 | 79.5 | 102.8 | 101.1 | 99.9 | 97.6 | 96.1 | 92.7 | 91.1 |
| 86.7 | 84.1 | 81.9 | 78.3 | 76.0 | 74.4 | 73.8 | 73.5 | 72.8 | 70.9 |
| 69.7 | 67.9 | 66.0 | 65.4 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 92.0 | 100.7 | 99.3 | 102.8 | 100.9 | 99.8 | 97.2 | 96.0 | 92.7 | 90.6 |
| 85.6 | 82.3 | 78.8 | 76.5 | 75.2 | 72.2 | 68.5 | 65.9 | 62.9 | 61.6 |
| 61.5 | 62.5 | 63.9 | 65.1 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 13.0 | 1.7 | | | | | | |
| PNL | 8.5 | 109.4 | 14.5 | 117.7 | 21.5 | 117.9 | 109.3 | 108.0 |
| PNLT | 8.5 | 110.2 | 14.0 | 118.6 | 21.0 | 118.7 | 109.9 | 108.7 |
| A-LEV | 8.5 | 95.2 | 14.0 | 102.8 | 21.0 | 103.0 | 94.9 | 93.7 |
| N-LEV | 8.5 | 110.1 | 13.5 | 117.8 | 20.5 | 118.0 | 109.6 | 108.4 |

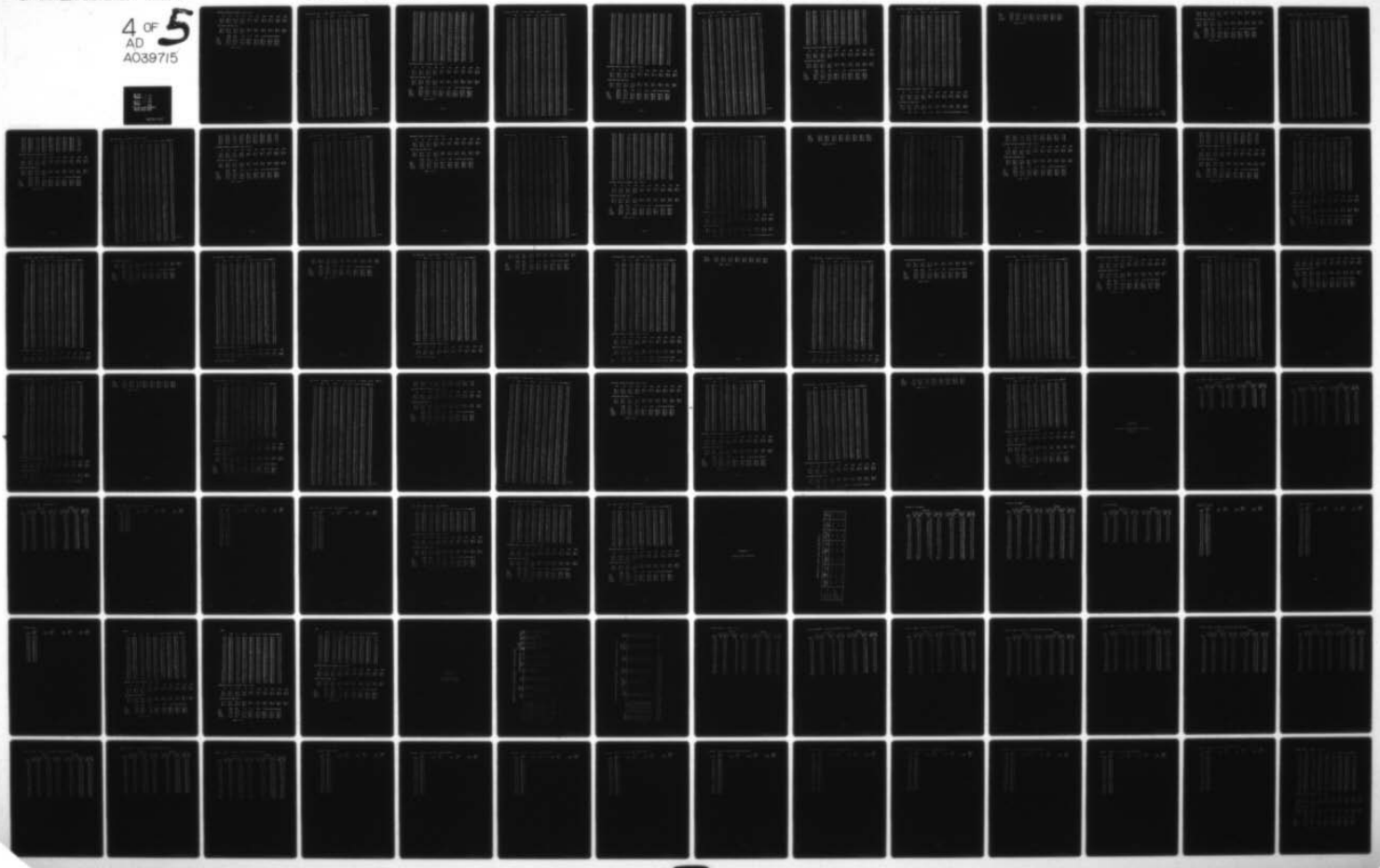
EPNL =108.6

TSC CH-47C #29: FLYOVER, 150 KT., 500 FT.

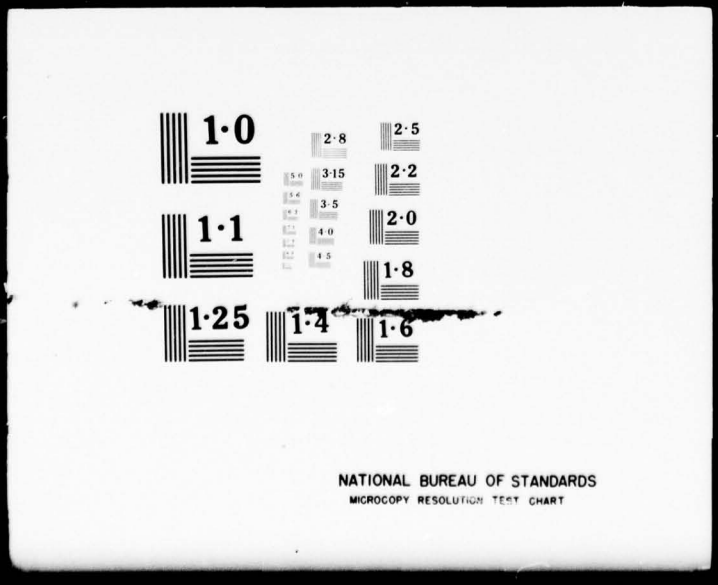
| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 87.2 | 0.0 | 87.2 | 79.8 | 72.5 | 80.0 | 87.0 | 0.1 |
| 0.5 | 87.5 | 0.0 | 87.5 | 80.6 | 72.7 | 80.3 | 87.3 | 0.1 |
| 1.0 | 87.7 | 0.5 | 88.2 | 81.1 | 73.0 | 80.5 | 87.5 | 0.7 |
| 1.5 | 88.1 | 0.6 | 88.7 | 81.8 | 73.4 | 80.8 | 87.8 | 0.4 |
| 2.0 | 88.4 | 0.6 | 89.0 | 82.7 | 73.7 | 81.2 | 88.2 | 0.4 |
| 2.5 | 88.6 | 0.6 | 89.2 | 83.3 | 73.8 | 81.3 | 88.3 | 0.4 |
| 3.0 | 88.8 | 1.0 | 89.8 | 83.8 | 74.0 | 81.5 | 88.5 | 0.3 |
| 3.5 | 88.8 | 0.6 | 89.4 | 83.6 | 74.2 | 81.6 | 88.6 | 0.3 |
| 4.0 | 89.0 | 0.0 | 89.0 | 83.5 | 74.6 | 81.7 | 88.7 | 0.1 |
| 4.5 | 89.1 | 0.0 | 89.1 | 83.5 | 74.7 | 81.7 | 88.7 | 0.1 |
| 5.0 | 89.3 | 0.5 | 89.8 | 84.1 | 75.0 | 82.0 | 89.0 | 0.4 |
| 5.5 | 89.7 | 0.0 | 89.7 | 84.3 | 75.2 | 82.1 | 89.1 | 0.1 |
| 6.0 | 89.9 | 0.5 | 90.4 | 84.4 | 75.4 | 82.2 | 89.2 | 0.5 |
| 6.5 | 90.2 | 0.0 | 90.2 | 84.9 | 75.9 | 82.6 | 89.6 | 0.1 |
| 7.0 | 90.5 | 0.0 | 90.5 | 85.7 | 76.4 | 83.1 | 90.1 | 0.1 |
| 7.5 | 92.2 | 0.0 | 92.2 | 87.6 | 77.6 | 84.3 | 91.3 | 0.1 |
| 8.0 | 94.2 | 0.7 | 94.9 | 90.0 | 79.6 | 86.0 | 93.0 | 0.7 |
| 8.5 | 95.5 | 0.6 | 96.1 | 91.9 | 81.2 | 87.4 | 94.4 | 0.7 |
| 9.0 | 96.9 | 0.6 | 97.5 | 93.9 | 82.3 | 88.7 | 95.7 | 1.0 |
| 9.5 | 98.3 | 0.6 | 98.9 | 96.3 | 83.8 | 90.4 | 97.4 | 0.2 |
| 10.0 | 100.1 | 0.9 | 101.0 | 98.6 | 86.0 | 92.6 | 99.6 | 0.2 |
| 10.5 | 102.0 | 0.9 | 102.9 | 101.1 | 87.2 | 94.4 | 101.4 | 0.2 |
| 11.0 | 104.7 | 0.9 | 105.6 | 103.8 | 89.1 | 97.1 | 104.1 | 0.2 |
| 11.5 | 106.1 | 0.9 | 107.0 | 105.7 | 90.1 | 98.9 | 105.9 | 0.2 |
| 12.0 | 107.8 | 0.9 | 108.7 | 107.2 | 92.1 | 100.6 | 107.6 | 0.2 |
| 12.5 | 109.5 | 1.1 | 110.6 | 108.2 | 94.7 | 102.2 | 109.2 | 0.2 |
| 13.0 | 110.4 | 1.3 | 111.7 | 108.9 | 96.1 | 103.3 | 110.3 | 0.2 |
| 13.5 | 111.1 | 1.3 | 112.4 | 109.4 | 96.9 | 104.1 | 111.1 | 0.2 |
| 14.0 | 111.8 | 1.3 | 113.1 | 110.2 | 97.7 | 104.9 | 111.9 | 0.2 |
| 14.5 | 112.1 | 1.2 | 113.3 | 110.4 | 97.9 | 105.2 | 112.2 | 0.2 |
| 15.0 | 111.8 | 1.2 | 113.0 | 110.3 | 97.4 | 104.9 | 111.9 | 0.2 |
| 15.5 | 111.6 | 1.2 | 112.8 | 110.0 | 97.1 | 104.5 | 111.5 | 0.2 |
| 16.0 | 111.3 | 1.0 | 112.3 | 109.9 | 96.6 | 104.1 | 111.1 | 0.2 |
| 16.5 | 110.9 | 1.0 | 111.9 | 109.6 | 96.1 | 103.7 | 110.7 | 0.2 |
| 17.0 | 110.2 | 1.1 | 111.3 | 109.2 | 95.4 | 103.1 | 110.1 | 0.2 |
| 17.5 | 109.2 | 1.4 | 110.6 | 108.5 | 94.1 | 102.0 | 109.0 | 0.2 |
| 18.0 | 108.1 | 1.5 | 109.6 | 107.6 | 92.9 | 100.9 | 107.9 | 0.2 |
| 18.5 | 107.0 | 1.2 | 108.2 | 106.6 | 91.4 | 99.6 | 106.6 | 0.2 |
| 19.0 | 105.8 | 0.6 | 106.4 | 105.4 | 90.2 | 98.3 | 105.3 | 0.2 |
| 19.5 | 105.1 | 0.0 | 105.1 | 104.5 | 89.7 | 97.6 | 104.6 | 0.1 |
| 20.0 | 105.5 | 0.5 | 106.0 | 103.5 | 90.5 | 97.7 | 104.7 | 1.0 |
| 20.5 | 105.9 | 0.0 | 105.9 | 102.6 | 90.7 | 97.8 | 104.8 | 0.1 |
| 21.0 | 105.8 | 0.0 | 105.8 | 102.2 | 90.8 | 97.9 | 104.9 | 0.1 |
| 21.5 | 105.8 | 0.0 | 105.8 | 102.3 | 90.7 | 97.9 | 104.9 | 0.1 |
| 22.0 | 105.2 | 0.0 | 105.2 | 101.7 | 90.2 | 97.4 | 104.4 | 0.1 |
| 22.5 | 104.8 | 0.0 | 104.8 | 101.1 | 90.1 | 96.9 | 103.9 | 0.1 |
| 23.0 | 104.2 | 0.0 | 104.2 | 100.3 | 89.7 | 96.3 | 103.3 | 0.1 |
| 23.5 | 102.7 | 0.0 | 102.7 | 98.5 | 88.5 | 94.9 | 101.9 | 0.1 |
| 24.0 | 100.9 | 0.0 | 100.9 | 96.5 | 86.7 | 93.0 | 100.0 | 0.1 |
| 24.5 | 99.2 | 0.0 | 99.2 | 94.5 | 85.1 | 91.3 | 98.3 | 0.1 |
| 25.0 | 97.3 | 0.0 | 97.3 | 92.6 | 83.3 | 89.5 | 96.5 | 0.1 |
| 25.5 | 95.7 | 0.0 | 95.7 | 90.8 | 81.8 | 87.9 | 94.9 | 0.1 |
| 26.0 | 94.2 | 0.0 | 94.2 | 89.2 | 80.3 | 86.5 | 93.5 | 0.1 |
| 26.5 | 93.7 | 0.0 | 93.7 | 88.2 | 79.8 | 85.8 | 92.8 | 0.1 |
| 27.0 | 93.7 | 0.0 | 93.7 | 87.8 | 79.9 | 85.6 | 92.6 | 0.1 |
| 27.5 | 93.0 | 0.0 | 93.0 | 86.9 | 79.1 | 85.0 | 92.0 | 0.1 |
| 28.0 | 92.4 | 0.0 | 92.4 | 86.2 | 78.6 | 84.4 | 91.4 | 0.1 |
| 28.5 | 91.4 | 0.0 | 91.4 | 85.3 | 77.5 | 83.5 | 90.5 | 0.1 |
| 29.0 | 90.7 | 0.0 | 90.7 | 84.4 | 77.2 | 83.0 | 90.0 | 0.1 |

AD-A039 715 BOLT BERANEK AND NEWMAN INC CANOGA PARK CALIF F/G 1/3
PHYSICAL ANALYSIS OF THE IMPULSIVE ASPECTS OF HELICOPTER NOISE.(U)
APR 77 W J GALLOWAY WI-77-3683-1
UNCLASSIFIED BBN-3425 FAA-EQ-77-8 NL

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LAYOVER, 75 MPH, 500 FT

MAXIMUM VALUES IN BANDS, PNLC =112.7

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 99.2 | 103.2 | 100.5 | 104.7 | 102.6 | 102.2 | 99.5 | 97.2 | 93.8 | 93.2 |
| 90.2 | 88.9 | 87.2 | 84.3 | 82.6 | 80.5 | 78.8 | 75.0 | 73.8 | 71.9 |
| 70.1 | 67.7 | 65.9 | 65.6 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 90.6 | 102.1 | 99.2 | 104.7 | 102.6 | 102.2 | 99.5 | 97.2 | 93.5 | 93.2 |
| 89.3 | 87.3 | 85.2 | 84.3 | 82.0 | 80.0 | 78.8 | 74.7 | 70.9 | 68.2 |
| 64.9 | 64.0 | 64.5 | 65.1 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 18.0 | 1.5 | | | | | | |
| PNL | 14.5 | 112.1 | 13.5 | 119.9 | 21.5 | 120.1 | 111.6 | 110.7 |
| PNLT | 14.5 | 113.3 | 13.0 | 120.9 | 20.0 | 121.1 | 112.7 | 111.5 |
| A-LEV | 14.5 | 97.9 | 13.5 | 105.2 | 21.0 | 105.4 | 97.4 | 96.4 |
| N-LEV | 14.5 | 112.2 | 13.0 | 119.7 | 20.0 | 119.9 | 111.6 | 110.4 |

EPNL =110.9

TSC CH-47C #35: 3 DEG. APRCH., 60 KT., 400 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 96.6 | 0.0 | 96.6 | 93.8 | 82.1 | 89.1 | 96.1 | 0.1 |
| 0.5 | 96.4 | 0.0 | 96.4 | 93.7 | 82.0 | 89.0 | 96.0 | 0.1 |
| 1.0 | 96.3 | 0.0 | 96.3 | 93.7 | 81.7 | 88.9 | 95.9 | 0.1 |
| 1.5 | 96.1 | 0.0 | 96.1 | 93.4 | 81.3 | 88.5 | 95.5 | 0.1 |
| 2.0 | 96.1 | 0.0 | 96.1 | 93.5 | 81.1 | 88.4 | 95.4 | 0.1 |
| 2.5 | 95.9 | 0.0 | 95.9 | 93.3 | 80.7 | 88.2 | 95.2 | 0.1 |
| 3.0 | 95.4 | 0.0 | 95.4 | 92.8 | 80.2 | 87.7 | 94.7 | 0.1 |
| 3.5 | 94.9 | 0.0 | 94.9 | 91.9 | 79.8 | 87.1 | 94.1 | 0.1 |
| 4.0 | 94.3 | 0.0 | 94.3 | 91.0 | 79.4 | 86.5 | 93.5 | 0.1 |
| 4.5 | 93.6 | 0.0 | 93.6 | 90.5 | 78.5 | 85.7 | 92.7 | 0.1 |
| 5.0 | 93.1 | 0.0 | 93.1 | 90.4 | 77.7 | 85.3 | 92.3 | 0.1 |
| 5.5 | 92.4 | 0.0 | 92.4 | 89.8 | 77.1 | 84.7 | 91.7 | 0.1 |
| 6.0 | 91.9 | 0.0 | 91.9 | 89.3 | 76.4 | 84.1 | 91.1 | 0.1 |
| 6.5 | 91.5 | 0.0 | 91.5 | 89.3 | 75.4 | 83.6 | 90.6 | 0.1 |
| 7.0 | 91.2 | 0.0 | 91.2 | 88.9 | 75.1 | 83.3 | 90.3 | 0.1 |
| 7.5 | 90.8 | 0.0 | 90.8 | 88.4 | 75.0 | 83.0 | 90.0 | 0.1 |
| 8.0 | 90.8 | 0.0 | 90.8 | 88.4 | 75.0 | 83.0 | 90.0 | 0.1 |
| 8.5 | 90.9 | 0.0 | 90.9 | 88.6 | 75.0 | 83.0 | 90.0 | 0.1 |
| 9.0 | 90.7 | 0.0 | 90.7 | 87.8 | 75.3 | 82.9 | 89.9 | 0.1 |
| 9.5 | 90.9 | 0.6 | 91.5 | 88.1 | 75.3 | 83.1 | 90.1 | 0.7 |
| 10.0 | 91.5 | 0.9 | 92.4 | 89.0 | 75.5 | 83.5 | 90.5 | 0.7 |
| 10.5 | 92.1 | 1.1 | 93.2 | 89.6 | 76.3 | 84.1 | 91.1 | 0.7 |
| 11.0 | 92.1 | 1.2 | 93.3 | 88.6 | 76.5 | 83.8 | 90.8 | 0.7 |
| 11.5 | 91.7 | 1.2 | 92.9 | 88.1 | 76.2 | 83.6 | 90.6 | 0.7 |
| 12.0 | 91.9 | 0.6 | 92.5 | 88.1 | 76.3 | 83.8 | 90.8 | 0.3 |
| 12.5 | 91.9 | 0.5 | 92.4 | 87.8 | 76.3 | 83.7 | 90.7 | 0.3 |
| 13.0 | 92.0 | 0.0 | 92.0 | 88.0 | 76.5 | 83.9 | 90.9 | 0.1 |
| 13.5 | 92.8 | 0.0 | 92.8 | 89.0 | 77.5 | 84.8 | 91.8 | 0.1 |
| 14.0 | 93.5 | 0.5 | 94.0 | 89.7 | 78.4 | 85.4 | 92.4 | 0.6 |
| 14.5 | 93.9 | 0.5 | 94.4 | 90.4 | 78.6 | 85.7 | 92.7 | 0.6 |
| 15.0 | 93.8 | 0.0 | 93.8 | 91.0 | 78.4 | 85.8 | 92.8 | 0.1 |
| 15.5 | 93.6 | 0.0 | 93.6 | 90.8 | 78.4 | 85.5 | 92.5 | 0.1 |
| 16.0 | 93.7 | 0.7 | 94.4 | 90.4 | 78.5 | 85.4 | 92.4 | 0.7 |
| 16.5 | 93.6 | 0.7 | 94.3 | 90.2 | 78.6 | 85.4 | 92.4 | 0.7 |
| 17.0 | 94.2 | 1.0 | 95.2 | 91.0 | 79.5 | 86.1 | 93.1 | 1.5 |
| 17.5 | 95.2 | 0.7 | 95.9 | 92.4 | 80.3 | 87.0 | 94.0 | 0.7 |
| 18.0 | 95.4 | 0.9 | 96.3 | 92.8 | 80.7 | 87.3 | 94.3 | 0.7 |
| 18.5 | 95.1 | 0.9 | 96.0 | 92.1 | 80.5 | 87.0 | 94.0 | 0.7 |
| 19.0 | 95.0 | 1.1 | 96.1 | 92.0 | 80.6 | 87.0 | 94.0 | 1.4 |
| 19.5 | 95.6 | 1.2 | 96.8 | 92.7 | 81.0 | 87.6 | 94.6 | 1.4 |
| 20.0 | 95.8 | 1.1 | 96.9 | 92.6 | 81.9 | 88.1 | 95.1 | 1.4 |
| 20.5 | 96.5 | 0.7 | 97.2 | 92.9 | 82.6 | 88.6 | 95.6 | 1.0 |
| 21.0 | 98.0 | 1.2 | 99.2 | 93.7 | 84.2 | 89.8 | 96.8 | 1.4 |
| 21.5 | 97.8 | 1.2 | 99.0 | 93.4 | 83.9 | 89.5 | 96.5 | 1.1 |
| 22.0 | 96.7 | 1.0 | 97.7 | 92.1 | 82.8 | 88.4 | 95.4 | 1.1 |
| 22.5 | 96.8 | 0.0 | 96.8 | 92.2 | 82.8 | 88.4 | 95.4 | 0.1 |
| 23.0 | 97.3 | 0.0 | 97.3 | 92.3 | 83.5 | 89.0 | 96.0 | 0.1 |
| 23.5 | 98.0 | 0.8 | 98.8 | 92.7 | 84.4 | 89.7 | 96.7 | 0.9 |
| 24.0 | 99.4 | 1.1 | 100.5 | 94.9 | 85.5 | 91.1 | 98.1 | 0.9 |
| 24.5 | 99.1 | 0.9 | 100.0 | 95.4 | 85.1 | 91.0 | 98.0 | 0.9 |
| 25.0 | 99.3 | 0.8 | 100.1 | 96.2 | 85.2 | 91.4 | 98.4 | 0.4 |
| 25.5 | 99.8 | 0.8 | 100.6 | 96.1 | 85.7 | 91.7 | 98.7 | 0.4 |
| 26.0 | 100.5 | 0.9 | 101.4 | 96.3 | 86.5 | 92.4 | 99.4 | 0.4 |
| 26.5 | 101.2 | 0.9 | 102.1 | 97.1 | 87.3 | 93.1 | 100.1 | 0.4 |
| 27.0 | 102.0 | 0.9 | 102.9 | 97.9 | 88.3 | 93.9 | 100.9 | 0.4 |
| 27.5 | 101.9 | 0.9 | 102.8 | 97.4 | 88.1 | 93.8 | 100.8 | 0.4 |
| 28.0 | 102.3 | 1.2 | 103.5 | 97.6 | 88.6 | 94.2 | 101.2 | 1.1 |
| 28.5 | 102.8 | 0.8 | 103.6 | 97.5 | 89.2 | 94.7 | 101.7 | 0.2 |
| 29.0 | 104.0 | 0.5 | 104.5 | 98.8 | 90.5 | 96.1 | 103.1 | 0.6 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 104.8 | 0.6 | 105.4 | 99.3 | 91.1 | 96.9 | 103.9 | 1.0 |
| 30.0 | 105.9 | 0.8 | 106.7 | 100.4 | 92.3 | 98.1 | 105.1 | 1.0 |
| 30.5 | 106.0 | 0.9 | 106.9 | 101.2 | 92.6 | 98.4 | 105.4 | 0.6 |
| 31.0 | 105.9 | 0.9 | 106.8 | 101.5 | 92.4 | 98.2 | 105.2 | 0.6 |
| 31.5 | 106.0 | 0.6 | 106.6 | 101.7 | 92.8 | 98.5 | 105.5 | 0.9 |
| 32.0 | 105.8 | 0.7 | 106.5 | 101.6 | 92.4 | 98.3 | 105.3 | 0.9 |
| 32.5 | 106.0 | 0.6 | 106.6 | 102.2 | 92.5 | 98.6 | 105.6 | 0.9 |
| 33.0 | 106.6 | 0.0 | 106.6 | 103.3 | 93.2 | 99.6 | 106.6 | 0.1 |
| 33.5 | 106.4 | 0.0 | 106.4 | 103.3 | 93.0 | 99.5 | 106.5 | 0.1 |
| 34.0 | 106.1 | 0.0 | 106.1 | 103.1 | 92.3 | 99.1 | 106.1 | 0.1 |
| 34.5 | 104.8 | 0.0 | 104.8 | 101.7 | 90.9 | 97.6 | 104.6 | 0.1 |
| 35.0 | 104.3 | 0.0 | 104.3 | 101.1 | 90.6 | 97.1 | 104.1 | 0.1 |
| 35.5 | 104.5 | 0.0 | 104.5 | 101.2 | 91.1 | 97.5 | 104.5 | 0.1 |
| 36.0 | 104.5 | 0.6 | 105.1 | 100.6 | 90.9 | 97.1 | 104.1 | 0.9 |
| 36.5 | 103.9 | 0.7 | 104.6 | 99.6 | 90.4 | 96.4 | 103.4 | 0.2 |
| 37.0 | 102.4 | 0.9 | 103.3 | 97.9 | 88.8 | 94.8 | 101.8 | 0.2 |
| 37.5 | 101.1 | 0.9 | 102.0 | 96.5 | 87.6 | 93.5 | 100.5 | 0.2 |
| 38.0 | 100.1 | 0.0 | 100.1 | 95.6 | 86.6 | 92.4 | 99.4 | 0.1 |
| 38.5 | 99.1 | 0.0 | 99.1 | 95.1 | 85.6 | 91.4 | 98.4 | 0.1 |
| 39.0 | 98.5 | 1.0 | 99.5 | 94.9 | 84.8 | 90.7 | 97.7 | 1.6 |
| 39.5 | 98.1 | 0.0 | 98.1 | 94.3 | 84.3 | 90.1 | 97.1 | 0.1 |
| 40.0 | 97.3 | 1.0 | 98.3 | 93.9 | 83.1 | 89.2 | 96.2 | 1.6 |
| 40.5 | 96.0 | 0.0 | 96.0 | 92.9 | 81.7 | 87.9 | 94.9 | 0.1 |
| 41.0 | 94.7 | 1.0 | 95.7 | 91.8 | 80.4 | 86.7 | 93.7 | 1.6 |
| 41.5 | 93.5 | 1.4 | 94.9 | 90.9 | 79.4 | 85.8 | 92.8 | 1.6 |
| 42.0 | 92.6 | 1.4 | 94.0 | 90.2 | 78.4 | 85.0 | 92.0 | 1.6 |
| 42.5 | 91.4 | 1.2 | 92.6 | 89.3 | 77.1 | 83.9 | 90.9 | 1.6 |
| 43.0 | 90.8 | 1.3 | 92.1 | 88.8 | 76.5 | 83.4 | 90.4 | 1.6 |
| 43.5 | 90.3 | 1.5 | 91.8 | 88.0 | 75.9 | 82.9 | 89.9 | 1.6 |
| 44.0 | 89.9 | 1.4 | 91.3 | 87.5 | 75.8 | 82.7 | 89.7 | 1.6 |

MAXIMUM VALUES IN BANDS, PNLC =107.9

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 92.7 | 91.7 | 89.2 | 94.7 | 97.9 | 96.9 | 94.1 | 93.3 | 92.7 | 90.8 |
| 87.1 | 83.1 | 82.5 | 80.7 | 80.1 | 78.4 | 76.7 | 74.7 | 71.9 | 69.6 |
| 66.9 | 65.7 | 65.2 | 65.6 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 91.2 | 86.3 | 86.8 | 83.0 | 91.3 | 95.7 | 93.8 | 88.9 | 86.4 | 90.8 |
| 84.1 | 82.9 | 82.5 | 80.3 | 79.6 | 78.0 | 76.0 | 73.8 | 70.9 | 68.7 |
| 66.2 | 65.2 | 65.0 | 65.6 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 43.5 | 1.5 | | | | | | |
| PNL | 33.0 | 106.6 | 20.0 | 116.0 | 44.0 | 116.6 | 107.8 | 108.3 |
| PNLT | 30.5 | 106.9 | 18.0 | 116.4 | 44.0 | 117.1 | 107.7 | 108.6 |
| A-LEV | 33.0 | 93.2 | 17.5 | 102.2 | 44.0 | 102.8 | 93.9 | 94.9 |
| N-LEV | 33.0 | 106.6 | 17.0 | 115.3 | 44.0 | 116.0 | 107.1 | 108.3 |

EPNL =106.4

TSC BELL 212 #27: 9 DEG. APRCH., 58 KT., 420 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 84.1 | 1.2 | 85.3 | 83.3 | 71.8 | 77.5 | 84.5 | 1.1 |
| 0.5 | 84.6 | 1.3 | 85.9 | 83.6 | 72.4 | 78.0 | 85.0 | 1.1 |
| 1.0 | 84.3 | 1.3 | 85.6 | 83.7 | 71.8 | 77.7 | 84.7 | 1.1 |
| 1.5 | 83.3 | 1.2 | 84.5 | 83.3 | 70.3 | 76.8 | 83.8 | 1.1 |
| 2.0 | 82.2 | 1.2 | 83.4 | 83.2 | 68.9 | 76.0 | 83.0 | 1.1 |
| 2.5 | 81.4 | 1.2 | 82.6 | 83.4 | 67.7 | 75.6 | 82.6 | 1.1 |
| 3.0 | 81.1 | 1.1 | 82.2 | 83.7 | 67.1 | 75.5 | 82.5 | 1.1 |
| 3.5 | 81.0 | 1.2 | 82.2 | 83.5 | 67.1 | 75.4 | 82.4 | 1.1 |
| 4.0 | 81.5 | 1.1 | 82.6 | 83.6 | 67.9 | 75.7 | 82.7 | 1.1 |
| 4.5 | 82.4 | 1.3 | 83.7 | 83.8 | 69.0 | 76.3 | 83.3 | 1.1 |
| 5.0 | 83.7 | 1.1 | 84.8 | 84.0 | 70.8 | 77.3 | 84.3 | 1.1 |
| 5.5 | 84.5 | 1.2 | 85.7 | 84.3 | 71.8 | 78.0 | 85.0 | 1.1 |
| 6.0 | 84.9 | 1.2 | 86.1 | 84.4 | 72.2 | 78.2 | 85.2 | 1.1 |
| 6.5 | 85.5 | 1.0 | 86.5 | 84.7 | 72.8 | 78.7 | 85.7 | 1.0 |
| 7.0 | 86.6 | 1.1 | 87.7 | 85.2 | 74.1 | 79.8 | 86.8 | 1.0 |
| 7.5 | 86.8 | 1.2 | 88.0 | 85.3 | 74.4 | 80.0 | 87.0 | 1.1 |
| 8.0 | 87.1 | 1.2 | 88.3 | 85.5 | 74.6 | 80.2 | 87.2 | 1.0 |
| 8.5 | 87.1 | 1.2 | 88.3 | 85.6 | 74.5 | 80.2 | 87.2 | 1.1 |
| 9.0 | 86.8 | 1.3 | 88.1 | 85.9 | 74.3 | 80.1 | 87.1 | 1.1 |
| 9.5 | 86.3 | 1.3 | 87.6 | 85.8 | 73.6 | 79.7 | 86.7 | 1.1 |
| 10.0 | 86.2 | 0.6 | 86.8 | 85.9 | 73.3 | 79.5 | 86.5 | 1.0 |
| 10.5 | 86.5 | 1.2 | 87.7 | 86.1 | 73.7 | 79.8 | 86.8 | 1.3 |
| 11.0 | 86.8 | 1.3 | 88.1 | 86.3 | 74.1 | 80.1 | 87.1 | 1.3 |
| 11.5 | 87.3 | 1.6 | 88.9 | 86.3 | 74.7 | 80.4 | 87.4 | 1.3 |
| 12.0 | 87.8 | 1.5 | 89.3 | 86.3 | 75.3 | 80.9 | 87.9 | 1.3 |
| 12.5 | 88.5 | 1.6 | 90.1 | 86.7 | 76.0 | 81.5 | 88.5 | 1.3 |
| 13.0 | 89.0 | 1.7 | 90.7 | 86.7 | 76.4 | 81.8 | 88.8 | 1.3 |
| 13.5 | 89.2 | 1.6 | 90.8 | 86.9 | 76.7 | 82.1 | 89.1 | 1.3 |
| 14.0 | 89.4 | 1.4 | 90.8 | 87.2 | 76.9 | 82.4 | 89.4 | 1.3 |
| 14.5 | 89.3 | 1.2 | 90.5 | 87.7 | 76.8 | 82.5 | 89.5 | 1.3 |
| 15.0 | 89.6 | 1.3 | 90.9 | 88.0 | 77.1 | 82.9 | 89.9 | 1.3 |
| 15.5 | 89.5 | 1.3 | 90.8 | 88.0 | 77.2 | 83.0 | 90.0 | 1.3 |
| 16.0 | 89.9 | 0.8 | 90.7 | 88.1 | 77.3 | 83.1 | 90.1 | 1.0 |
| 16.5 | 90.3 | 0.6 | 90.9 | 88.6 | 77.9 | 83.6 | 90.6 | 0.2 |
| 17.0 | 91.3 | 0.6 | 91.9 | 89.0 | 79.2 | 84.8 | 91.8 | 0.2 |
| 17.5 | 92.1 | 0.7 | 92.8 | 89.3 | 80.1 | 85.6 | 92.6 | 1.0 |
| 18.0 | 91.7 | 1.0 | 92.7 | 89.1 | 79.7 | 85.2 | 92.2 | 1.2 |
| 18.5 | 91.6 | 0.6 | 92.2 | 89.0 | 79.4 | 85.0 | 92.0 | 0.2 |
| 19.0 | 91.8 | 0.6 | 92.4 | 89.0 | 79.5 | 85.1 | 92.1 | 0.2 |
| 19.5 | 92.3 | 0.5 | 92.8 | 89.3 | 80.1 | 85.7 | 92.7 | 0.2 |
| 20.0 | 92.6 | 0.6 | 93.2 | 89.4 | 80.2 | 85.8 | 92.8 | 0.2 |
| 20.5 | 92.8 | 0.6 | 93.4 | 89.6 | 80.3 | 86.0 | 93.0 | 0.2 |
| 21.0 | 93.3 | 0.6 | 93.9 | 89.9 | 80.7 | 86.4 | 93.4 | 0.2 |
| 21.5 | 92.9 | 0.6 | 93.5 | 89.5 | 80.1 | 85.8 | 92.8 | 0.8 |
| 22.0 | 93.6 | 0.6 | 94.2 | 90.0 | 80.7 | 86.5 | 93.5 | 0.2 |
| 22.5 | 94.1 | 0.7 | 94.8 | 90.3 | 81.3 | 87.0 | 94.0 | 0.2 |
| 23.0 | 94.0 | 0.7 | 94.7 | 90.3 | 81.0 | 86.8 | 93.8 | 0.2 |
| 23.5 | 94.3 | 0.7 | 95.0 | 90.4 | 81.3 | 87.1 | 94.1 | 0.2 |
| 24.0 | 94.5 | 0.7 | 95.2 | 90.5 | 81.3 | 87.1 | 94.1 | 0.2 |
| 24.5 | 94.4 | 0.8 | 95.2 | 90.5 | 81.1 | 86.9 | 93.9 | 0.2 |
| 25.0 | 95.4 | 0.8 | 96.2 | 91.1 | 82.0 | 87.8 | 94.8 | 0.2 |
| 25.5 | 95.9 | 0.9 | 96.8 | 91.5 | 82.6 | 88.4 | 95.4 | 0.2 |
| 26.0 | 96.1 | 1.0 | 97.1 | 91.9 | 82.9 | 88.8 | 95.8 | 0.2 |
| 26.5 | 95.7 | 1.1 | 96.8 | 91.8 | 82.6 | 88.5 | 95.5 | 0.2 |
| 27.0 | 96.1 | 1.2 | 97.3 | 92.3 | 82.8 | 88.9 | 95.9 | 0.2 |
| 27.5 | 96.6 | 1.2 | 97.8 | 92.3 | 83.0 | 89.2 | 96.2 | 0.2 |
| 28.0 | 97.0 | 1.2 | 98.2 | 92.8 | 83.3 | 89.6 | 96.6 | 0.2 |
| 28.5 | 96.7 | 1.3 | 98.0 | 92.7 | 82.7 | 89.2 | 96.2 | 0.2 |
| 29.0 | 96.6 | 1.3 | 97.9 | 92.7 | 82.3 | 89.0 | 96.0 | 0.2 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 95.6 | 1.3 | 96.9 | 92.0 | 81.5 | 88.2 | 95.2 | 0.2 |
| 30.0 | 95.1 | 0.7 | 95.8 | 91.4 | 80.8 | 87.5 | 94.5 | 0.9 |
| 30.5 | 94.8 | 0.7 | 95.5 | 90.9 | 80.5 | 87.1 | 94.1 | 0.9 |
| 31.0 | 94.8 | 0.6 | 95.4 | 91.1 | 80.3 | 87.0 | 94.0 | 0.9 |
| 31.5 | 95.0 | 0.5 | 95.5 | 91.5 | 80.6 | 87.3 | 94.3 | 0.4 |
| 32.0 | 94.6 | 0.6 | 95.2 | 90.8 | 80.0 | 86.8 | 93.8 | 0.6 |
| 32.5 | 94.5 | 0.6 | 95.1 | 91.1 | 80.1 | 86.9 | 93.9 | 0.4 |
| 33.0 | 94.4 | 0.6 | 95.0 | 90.7 | 79.9 | 86.7 | 93.7 | 0.9 |
| 33.5 | 94.1 | 0.8 | 94.9 | 90.4 | 79.6 | 86.5 | 93.5 | 0.9 |
| 34.0 | 94.6 | 0.8 | 95.4 | 91.0 | 80.2 | 87.0 | 94.0 | 0.9 |
| 34.5 | 94.5 | 0.7 | 95.2 | 90.9 | 80.2 | 86.9 | 93.9 | 0.9 |
| 35.0 | 94.1 | 0.0 | 94.1 | 90.3 | 80.0 | 86.6 | 93.6 | 0.1 |
| 35.5 | 93.8 | 0.0 | 93.8 | 89.6 | 79.7 | 86.2 | 93.2 | 0.1 |
| 36.0 | 93.8 | 0.0 | 93.8 | 89.1 | 79.6 | 86.0 | 93.0 | 0.1 |
| 36.5 | 93.3 | 1.1 | 94.4 | 88.4 | 79.4 | 85.7 | 92.7 | 1.7 |
| 37.0 | 92.9 | 0.0 | 92.9 | 87.9 | 79.2 | 85.4 | 92.4 | 0.1 |
| 37.5 | 92.6 | 0.0 | 92.6 | 87.6 | 79.2 | 85.2 | 92.2 | 0.1 |
| 38.0 | 92.1 | 0.0 | 92.1 | 87.3 | 78.7 | 84.7 | 91.7 | 0.1 |
| 38.5 | 91.1 | 0.0 | 91.1 | 86.2 | 77.7 | 83.7 | 90.7 | 0.1 |
| 39.0 | 90.1 | 1.3 | 91.4 | 85.0 | 76.6 | 82.6 | 89.6 | 1.7 |
| 39.5 | 89.7 | 1.5 | 91.2 | 84.4 | 76.2 | 82.2 | 89.2 | 1.7 |
| 40.0 | 88.7 | 1.8 | 90.5 | 83.5 | 75.3 | 81.3 | 88.3 | 1.7 |
| 40.5 | 88.2 | 3.0 | 91.2 | 82.6 | 74.9 | 81.0 | 88.0 | 1.7 |
| 41.0 | 86.9 | 2.7 | 89.6 | 81.6 | 73.6 | 79.7 | 86.7 | 1.7 |
| 41.5 | 88.6 | 1.6 | 90.2 | 81.4 | 75.4 | 81.3 | 88.3 | 1.7 |
| 42.0 | 88.5 | 1.5 | 90.0 | 81.6 | 75.4 | 81.2 | 88.2 | 1.7 |
| 42.5 | 86.9 | 1.4 | 88.3 | 80.9 | 73.8 | 79.6 | 86.6 | 1.7 |
| 43.0 | 85.3 | 1.3 | 86.6 | 79.9 | 72.3 | 78.1 | 85.1 | 1.7 |
| 43.5 | 84.0 | 1.2 | 85.2 | 79.1 | 70.9 | 76.9 | 83.9 | 1.6 |
| 44.0 | 83.1 | 0.0 | 83.1 | 78.6 | 70.1 | 76.1 | 83.1 | 0.1 |
| 44.5 | 82.9 | 0.5 | 83.4 | 78.5 | 69.7 | 75.9 | 82.9 | 0.4 |

MAXIMUM VALUES IN BANDS, PNLC = 98.5

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 82.4 | 84.4 | 79.1 | 84.5 | 85.2 | 86.6 | 87.1 | 85.6 | 83.6 | 80.5 |
| 75.0 | 73.0 | 70.0 | 68.7 | 67.6 | 67.6 | 67.5 | 64.0 | 61.8 | 59.0 |
| 56.5 | 56.2 | 60.5 | 63.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 81.5 | 83.0 | 70.7 | 71.9 | 81.4 | 85.7 | 87.1 | 82.5 | 81.7 | 80.3 |
| 73.0 | 71.9 | 69.8 | 67.8 | 67.6 | 65.6 | 64.9 | 63.9 | 61.1 | 58.1 |
| 55.2 | 52.9 | 53.5 | 53.0 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 40.5 | 3.0 | | | | | | |
| PNL | 28.0 | 97.0 | 30.0 | 108.2 | 44.5 | 108.5 | 100.0 | 98.7 |
| PNLT | 28.0 | 98.2 | 32.0 | 109.2 | 44.5 | 109.4 | 101.5 | 99.9 |
| A-LEV | 28.0 | 83.3 | 33.0 | 94.9 | 44.5 | 95.1 | 86.7 | 85.0 |
| N-LEV | 28.0 | 96.6 | 32.5 | 108.0 | 44.5 | 108.2 | 100.0 | 98.3 |

EPNL = 99.2

TSC BELL 212 #31: FLYOVER, 61 KT., 500 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 83.2 | 0.0 | 83.2 | 85.2 | 68.1 | 77.5 | 84.5 | 0.1 |
| 0.5 | 83.1 | 0.0 | 83.1 | 85.0 | 68.0 | 77.3 | 84.3 | 0.1 |
| 1.0 | 83.0 | 0.0 | 83.0 | 85.0 | 68.1 | 77.3 | 84.3 | 0.1 |
| 1.5 | 83.0 | 0.0 | 83.0 | 84.9 | 68.3 | 77.1 | 84.1 | 0.1 |
| 2.0 | 82.6 | 1.7 | 84.3 | 84.6 | 68.3 | 76.9 | 83.9 | 1.1 |
| 2.5 | 82.7 | 1.7 | 84.4 | 84.9 | 68.1 | 77.0 | 84.0 | 1.1 |
| 3.0 | 82.4 | 1.8 | 84.2 | 85.0 | 67.8 | 77.0 | 84.0 | 1.1 |
| 3.5 | 82.5 | 1.8 | 84.3 | 85.1 | 67.9 | 77.1 | 84.1 | 1.1 |
| 4.0 | 82.7 | 1.2 | 83.9 | 85.0 | 68.2 | 77.1 | 84.1 | 1.5 |
| 4.5 | 83.3 | 0.5 | 83.8 | 85.1 | 69.2 | 77.5 | 84.5 | 1.0 |
| 5.0 | 84.3 | 1.9 | 86.2 | 85.4 | 71.1 | 78.4 | 85.4 | 1.1 |
| 5.5 | 85.2 | 1.9 | 87.1 | 85.9 | 72.2 | 79.1 | 86.1 | 1.1 |
| 6.0 | 85.2 | 1.8 | 87.0 | 85.8 | 72.3 | 79.1 | 86.1 | 1.1 |
| 6.5 | 85.2 | 1.9 | 87.1 | 86.1 | 72.1 | 79.1 | 86.1 | 1.1 |
| 7.0 | 85.3 | 0.0 | 85.3 | 86.2 | 72.3 | 79.2 | 86.2 | 0.1 |
| 7.5 | 86.2 | 1.0 | 87.2 | 86.5 | 73.4 | 79.8 | 86.8 | 1.4 |
| 8.0 | 87.4 | 1.2 | 88.6 | 86.8 | 74.7 | 80.6 | 87.6 | 1.4 |
| 8.5 | 87.6 | 1.1 | 88.7 | 87.3 | 74.7 | 80.9 | 87.9 | 1.4 |
| 9.0 | 88.3 | 1.1 | 89.4 | 87.6 | 75.2 | 81.3 | 88.3 | 1.1 |
| 9.5 | 88.9 | 1.1 | 90.0 | 88.0 | 75.6 | 81.8 | 88.8 | 1.1 |
| 10.0 | 89.2 | 1.1 | 90.3 | 88.0 | 75.9 | 82.0 | 89.0 | 1.0 |
| 10.5 | 89.5 | 1.0 | 90.5 | 87.9 | 76.1 | 82.1 | 89.1 | 1.0 |
| 11.0 | 89.6 | 0.7 | 90.3 | 88.0 | 76.2 | 82.2 | 89.2 | 1.0 |
| 11.5 | 89.5 | 0.7 | 90.2 | 87.9 | 76.1 | 82.1 | 89.1 | 1.0 |
| 12.0 | 88.8 | 0.6 | 89.4 | 87.5 | 75.2 | 81.5 | 88.5 | 1.0 |
| 12.5 | 87.7 | 0.6 | 88.3 | 87.1 | 74.1 | 80.6 | 87.6 | 1.0 |
| 13.0 | 87.1 | 0.0 | 87.1 | 86.7 | 73.5 | 80.1 | 87.1 | 0.1 |
| 13.5 | 87.5 | 1.2 | 88.7 | 86.9 | 74.1 | 80.6 | 87.6 | 1.2 |
| 14.0 | 88.6 | 1.1 | 89.7 | 87.2 | 75.1 | 81.3 | 88.3 | 1.2 |
| 14.5 | 88.9 | 0.0 | 88.9 | 87.2 | 75.4 | 81.6 | 88.6 | 0.1 |
| 15.0 | 89.4 | 0.0 | 89.4 | 87.6 | 76.0 | 82.0 | 89.0 | 0.1 |
| 15.5 | 89.4 | 0.0 | 89.4 | 87.5 | 76.1 | 82.1 | 89.1 | 0.1 |
| 16.0 | 89.7 | 1.0 | 90.7 | 87.1 | 76.3 | 82.2 | 89.2 | 1.1 |
| 16.5 | 90.1 | 0.5 | 90.6 | 86.9 | 76.5 | 82.4 | 89.4 | 0.6 |
| 17.0 | 89.7 | 0.6 | 90.3 | 86.4 | 76.1 | 82.1 | 89.1 | 0.6 |
| 17.5 | 89.6 | 0.5 | 90.1 | 86.3 | 75.8 | 82.1 | 89.1 | 0.8 |
| 18.0 | 90.0 | 0.7 | 90.7 | 86.1 | 76.4 | 82.5 | 89.5 | 0.6 |
| 18.5 | 90.1 | 0.8 | 90.9 | 86.0 | 76.6 | 82.7 | 89.7 | 0.6 |
| 19.0 | 90.1 | 0.8 | 90.9 | 85.9 | 76.7 | 82.8 | 89.8 | 0.6 |
| 19.5 | 90.4 | 0.8 | 91.2 | 85.9 | 77.4 | 83.3 | 90.3 | 0.6 |
| 20.0 | 90.1 | 0.6 | 90.7 | 85.5 | 77.2 | 83.1 | 90.1 | 0.2 |
| 20.5 | 90.1 | 0.6 | 90.7 | 85.2 | 77.0 | 82.9 | 89.9 | 0.2 |
| 21.0 | 90.6 | 0.7 | 91.3 | 85.4 | 77.2 | 83.2 | 90.2 | 0.2 |
| 21.5 | 90.5 | 0.7 | 91.2 | 85.2 | 77.2 | 83.1 | 90.1 | 0.9 |
| 22.0 | 91.0 | 0.8 | 91.8 | 85.6 | 77.6 | 83.5 | 90.5 | 0.9 |
| 22.5 | 91.3 | 0.7 | 92.0 | 85.8 | 78.0 | 83.7 | 90.7 | 0.4 |
| 23.0 | 90.4 | 0.8 | 91.2 | 85.1 | 77.1 | 82.8 | 89.8 | 0.4 |
| 23.5 | 89.9 | 0.9 | 90.8 | 84.5 | 76.6 | 82.3 | 89.3 | 0.4 |
| 24.0 | 89.4 | 1.1 | 90.5 | 84.0 | 75.9 | 81.6 | 88.6 | 0.4 |
| 24.5 | 88.8 | 1.3 | 90.1 | 83.4 | 75.3 | 81.0 | 88.0 | 0.4 |
| 25.0 | 88.5 | 1.5 | 90.0 | 83.0 | 75.0 | 80.8 | 87.8 | 0.4 |
| 25.5 | 88.0 | 1.6 | 89.6 | 82.5 | 74.2 | 80.2 | 87.2 | 0.4 |
| 26.0 | 87.7 | 1.7 | 89.4 | 82.0 | 74.1 | 80.1 | 87.1 | 0.4 |
| 26.5 | 87.4 | 1.5 | 88.9 | 81.6 | 74.0 | 79.9 | 86.9 | 0.4 |
| 27.0 | 87.3 | 1.5 | 88.8 | 81.4 | 73.8 | 79.6 | 86.6 | 0.4 |
| 27.5 | 87.1 | 1.3 | 88.4 | 81.3 | 73.8 | 79.4 | 86.4 | 0.4 |
| 28.0 | 87.1 | 1.1 | 88.2 | 81.5 | 73.9 | 79.5 | 86.5 | 0.6 |
| 28.5 | 87.0 | 0.9 | 87.9 | 81.8 | 73.9 | 79.5 | 86.5 | 0.6 |
| 29.0 | 86.7 | 0.8 | 87.5 | 81.3 | 73.7 | 79.3 | 86.3 | 0.6 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 86.6 | 0.8 | 87.4 | 80.7 | 73.7 | 79.3 | 86.3 | 0.6 |
| 30.0 | 85.7 | 1.3 | 87.0 | 79.8 | 72.8 | 78.5 | 85.5 | 0.6 |
| 30.5 | 86.1 | 1.3 | 87.4 | 79.5 | 73.1 | 78.9 | 85.9 | 0.6 |
| 31.0 | 86.5 | 1.2 | 87.7 | 79.2 | 73.3 | 79.2 | 86.2 | 0.6 |
| 31.5 | 85.7 | 1.2 | 86.9 | 79.3 | 72.6 | 78.5 | 85.5 | 0.6 |
| 32.0 | 85.5 | 1.2 | 86.7 | 79.2 | 72.5 | 78.3 | 85.3 | 1.6 |
| 32.5 | 85.4 | 1.4 | 86.8 | 78.3 | 72.3 | 78.2 | 85.2 | 1.1 |
| 33.0 | 84.8 | 1.6 | 86.4 | 78.0 | 71.8 | 77.7 | 84.7 | 1.1 |
| 33.5 | 83.8 | 1.8 | 85.6 | 77.3 | 70.9 | 76.9 | 83.9 | 1.1 |
| 34.0 | 83.1 | 1.8 | 84.9 | 77.0 | 70.2 | 76.2 | 83.2 | 1.1 |
| 34.5 | 82.7 | 1.3 | 84.0 | 77.2 | 69.7 | 75.8 | 82.8 | 1.1 |
| 35.0 | 82.8 | 0.0 | 82.8 | 76.8 | 69.6 | 75.9 | 82.9 | 0.1 |
| 35.5 | 81.5 | 0.5 | 82.0 | 76.3 | 68.3 | 74.6 | 81.6 | 0.7 |
| 36.0 | 81.4 | 0.5 | 81.9 | 76.2 | 68.0 | 74.4 | 81.4 | 0.7 |
| 36.5 | 81.1 | 1.3 | 82.4 | 75.7 | 68.0 | 74.1 | 81.1 | 1.2 |
| 37.0 | 81.1 | 1.2 | 82.3 | 75.5 | 67.7 | 74.0 | 81.0 | 1.2 |
| 37.5 | 82.3 | 1.5 | 83.8 | 75.6 | 69.0 | 75.3 | 82.3 | 1.6 |
| 38.0 | 81.4 | 1.5 | 82.9 | 74.6 | 68.2 | 74.4 | 81.4 | 1.6 |
| 38.5 | 79.7 | 1.7 | 81.4 | 74.1 | 66.3 | 72.6 | 79.6 | 1.6 |
| 39.0 | 78.2 | 1.7 | 79.9 | 73.9 | 64.5 | 70.9 | 77.9 | 1.6 |
| 39.5 | 77.1 | 1.5 | 78.6 | 73.1 | 63.5 | 69.8 | 76.8 | 1.6 |

MAXIMUM VALUES IN BANDS, PNLC = 93.5

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 83.0 | 83.1 | 78.8 | 76.0 | 78.2 | 80.1 | 77.5 | 77.8 | 76.3 | 77.0 |
| 73.0 | 68.8 | 66.9 | 68.2 | 67.2 | 65.3 | 64.8 | 62.5 | 59.9 | 57.8 |
| 55.3 | 54.2 | 56.2 | 57.9 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 73.6 | 73.4 | 63.4 | 75.0 | 78.2 | 80.1 | 73.6 | 73.3 | 75.5 | 69.8 |
| 71.3 | 68.2 | 66.9 | 68.2 | 67.2 | 65.3 | 63.6 | 61.8 | 59.9 | 57.6 |
| 55.3 | 54.2 | 56.0 | 56.6 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 5.0 | 1.9 | | | | | | |
| PNL | 22.5 | 91.3 | 36.5 | 103.4 | 39.5 | 103.4 | 95.2 | 92.5 |
| PNLT | 22.5 | 92.0 | 35.5 | 104.3 | 39.5 | 104.4 | 95.7 | 93.2 |
| A-LEV | 22.5 | 78.0 | 32.5 | 89.9 | 39.5 | 90.1 | 81.4 | 79.2 |
| N-LEV | 22.5 | 90.7 | 38.5 | 103.2 | 39.5 | 103.2 | 94.8 | 91.9 |

EPNL = 94.3

TSC BELL 212 #32: FLYOVER, 96 KT., 500 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 88.5 | 1.0 | 89.5 | 90.4 | 73.5 | 83.2 | 90.2 | 1.2 |
| 0.5 | 88.4 | 0.0 | 88.4 | 90.4 | 73.3 | 83.1 | 90.1 | 0.1 |
| 1.0 | 88.7 | 0.0 | 88.7 | 90.6 | 73.5 | 83.3 | 90.3 | 0.1 |
| 1.5 | 89.0 | 0.0 | 89.0 | 91.0 | 73.8 | 83.6 | 90.6 | 0.1 |
| 2.0 | 89.2 | 0.0 | 89.2 | 91.2 | 73.7 | 83.7 | 90.7 | 0.1 |
| 2.5 | 89.1 | 0.0 | 89.1 | 91.3 | 73.4 | 83.5 | 90.5 | 0.1 |
| 3.0 | 88.9 | 0.0 | 88.9 | 91.3 | 73.1 | 83.3 | 90.3 | 0.1 |
| 3.5 | 88.9 | 0.0 | 88.9 | 91.1 | 73.3 | 83.1 | 90.1 | 0.1 |
| 4.0 | 89.5 | 0.0 | 89.5 | 91.0 | 74.4 | 83.2 | 90.2 | 0.1 |
| 4.5 | 90.5 | 0.0 | 90.5 | 91.2 | 76.5 | 84.1 | 91.1 | 0.1 |
| 5.0 | 91.5 | 0.0 | 91.5 | 91.1 | 77.8 | 84.7 | 91.7 | 0.1 |
| 5.5 | 91.7 | 0.0 | 91.7 | 91.0 | 78.2 | 84.8 | 91.8 | 0.1 |
| 6.0 | 92.6 | 0.0 | 92.6 | 91.0 | 79.3 | 85.4 | 92.4 | 0.1 |
| 6.5 | 93.0 | 0.0 | 93.0 | 90.6 | 79.7 | 85.6 | 92.6 | 0.1 |
| 7.0 | 92.6 | 0.7 | 93.3 | 90.1 | 79.6 | 85.3 | 92.3 | 0.8 |
| 7.5 | 93.6 | 0.9 | 94.5 | 89.8 | 80.3 | 85.8 | 92.8 | 0.8 |
| 8.0 | 95.0 | 1.1 | 96.1 | 90.0 | 81.8 | 87.3 | 94.3 | 0.8 |
| 8.5 | 94.9 | 1.2 | 96.1 | 89.6 | 82.0 | 87.4 | 94.4 | 0.7 |
| 9.0 | 94.4 | 0.7 | 95.1 | 89.0 | 81.7 | 87.1 | 94.1 | 0.7 |
| 9.5 | 94.4 | 0.9 | 95.3 | 88.7 | 81.6 | 87.0 | 94.0 | 0.2 |
| 10.0 | 93.7 | 0.9 | 94.6 | 88.1 | 80.6 | 86.2 | 93.2 | 0.2 |
| 10.5 | 92.8 | 0.8 | 93.6 | 87.5 | 79.6 | 85.5 | 92.5 | 0.2 |
| 11.0 | 92.1 | 0.5 | 92.6 | 86.8 | 78.6 | 84.6 | 91.6 | 0.2 |
| 11.5 | 91.2 | 0.7 | 91.9 | 85.7 | 77.5 | 83.6 | 90.6 | 0.4 |
| 12.0 | 90.3 | 1.0 | 91.3 | 84.6 | 76.5 | 82.6 | 89.6 | 0.4 |
| 12.5 | 89.2 | 1.1 | 90.3 | 83.6 | 75.5 | 81.6 | 88.6 | 0.4 |
| 13.0 | 88.2 | 1.1 | 89.3 | 82.4 | 74.8 | 80.8 | 87.8 | 0.4 |
| 13.5 | 87.8 | 1.0 | 88.8 | 81.9 | 74.7 | 80.4 | 87.4 | 0.4 |
| 14.0 | 87.7 | 0.9 | 88.6 | 81.5 | 74.9 | 80.5 | 87.5 | 0.4 |
| 14.5 | 87.7 | 1.2 | 88.9 | 80.9 | 74.7 | 80.2 | 87.2 | 1.6 |
| 15.0 | 87.7 | 1.8 | 89.5 | 80.2 | 74.4 | 79.9 | 86.9 | 1.6 |
| 15.5 | 87.0 | 1.9 | 88.9 | 79.5 | 73.7 | 79.2 | 86.2 | 1.6 |
| 16.0 | 86.4 | 2.2 | 88.6 | 78.9 | 73.2 | 78.6 | 85.6 | 1.6 |
| 16.5 | 86.0 | 2.1 | 88.1 | 78.4 | 72.7 | 78.3 | 85.3 | 1.6 |
| 17.0 | 85.0 | 2.3 | 87.3 | 77.6 | 71.7 | 77.3 | 84.3 | 1.6 |
| 17.5 | 83.7 | 2.2 | 85.9 | 77.5 | 70.2 | 76.0 | 83.0 | 1.6 |
| 18.0 | 82.3 | 2.1 | 84.4 | 76.8 | 68.9 | 74.8 | 81.8 | 1.6 |
| 18.5 | 82.3 | 2.2 | 84.5 | 76.1 | 69.1 | 74.8 | 81.8 | 1.6 |
| 19.0 | 83.0 | 2.3 | 85.3 | 76.1 | 69.7 | 75.7 | 82.7 | 1.6 |
| 19.5 | 82.2 | 2.0 | 84.2 | 75.5 | 69.0 | 75.0 | 82.0 | 1.6 |
| 20.0 | 80.6 | 2.0 | 82.6 | 74.3 | 67.3 | 73.3 | 80.3 | 1.6 |
| 20.5 | 79.7 | 2.0 | 81.7 | 73.8 | 66.4 | 72.3 | 79.3 | 1.6 |
| 21.0 | 79.8 | 2.2 | 82.0 | 73.7 | 66.5 | 72.2 | 79.2 | 1.6 |

MAXIMUM VALUES IN BANDS, PNLC = 97.1

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 85.3 | 84.0 | 85.2 | 83.6 | 83.1 | 80.4 | 82.5 | 83.2 | 80.9 | 79.4 |
| 77.0 | 73.3 | 71.8 | 68.8 | 68.0 | 67.3 | 65.4 | 65.3 | 62.9 | 59.8 |
| 56.7 | 55.2 | 58.0 | 59.2 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 82.2 | 81.1 | 78.5 | 73.7 | 71.7 | 73.1 | 81.0 | 83.2 | 78.7 | 76.8 |
| 77.0 | 73.2 | 71.4 | 68.2 | 66.9 | 65.4 | 64.4 | 65.0 | 62.3 | 58.2 |
| 53.8 | 51.2 | 49.0 | 47.9 | | | | | | |

| TIME | MAX | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M | B-128 |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| P.T. | 17.0 | 2.3 | | | | | | |
| PNL | 8.0 | 95.0 | 17.0 | 103.4 | 21.0 | 103.6 | 95.5 | 93.5 |
| PNLT | 8.0 | 96.1 | 17.5 | 104.2 | 21.0 | 104.3 | 96.8 | 94.6 |
| A-LEV | 8.5 | 82.0 | 17.0 | 90.0 | 21.0 | 90.1 | 82.5 | 80.5 |
| N-LEV | 8.5 | 94.4 | 17.0 | 103.4 | 21.0 | 103.5 | 94.9 | 92.9 |

EPNL = 94.2

TSC BELL 212 #36: FLYOVER, 105 KT., 450 FT.

| T | PNL | P. T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 86.9 | 0.0 | 86.9 | 88.7 | 71.5 | 81.3 | 88.3 | 0.1 |
| 0.5 | 88.5 | 0.0 | 88.5 | 90.0 | 73.4 | 83.1 | 90.1 | 0.1 |
| 1.0 | 90.0 | 0.0 | 90.0 | 91.2 | 75.1 | 84.5 | 91.5 | 0.1 |
| 1.5 | 91.2 | 0.0 | 91.2 | 92.0 | 76.6 | 85.6 | 92.6 | 0.1 |
| 2.0 | 91.7 | 0.0 | 91.7 | 92.3 | 77.3 | 86.0 | 93.0 | 0.1 |
| 2.5 | 91.2 | 0.0 | 91.2 | 91.8 | 77.1 | 85.6 | 92.6 | 0.1 |
| 3.0 | 90.5 | 0.0 | 90.5 | 91.3 | 76.1 | 84.9 | 91.9 | 0.1 |
| 3.5 | 90.1 | 0.0 | 90.1 | 91.1 | 75.6 | 84.5 | 91.5 | 0.1 |
| 4.0 | 90.0 | 0.0 | 90.0 | 91.0 | 75.4 | 84.3 | 91.3 | 0.1 |
| 4.5 | 89.9 | 0.0 | 89.9 | 91.1 | 75.5 | 84.5 | 91.5 | 0.1 |
| 5.0 | 89.9 | 0.0 | 89.9 | 91.2 | 75.5 | 84.6 | 91.6 | 0.1 |
| 5.5 | 89.6 | 0.0 | 89.6 | 91.2 | 75.0 | 84.4 | 91.4 | 0.1 |
| 6.0 | 89.8 | 0.0 | 89.8 | 91.5 | 75.2 | 84.6 | 91.6 | 0.1 |
| 6.5 | 90.5 | 0.0 | 90.5 | 92.1 | 75.8 | 85.3 | 92.3 | 0.1 |
| 7.0 | 90.9 | 0.0 | 90.9 | 92.5 | 76.3 | 85.7 | 92.7 | 0.1 |
| 7.5 | 91.2 | 0.0 | 91.2 | 92.8 | 76.6 | 86.0 | 93.0 | 0.1 |
| 8.0 | 91.3 | 0.0 | 91.3 | 92.9 | 76.6 | 86.0 | 93.0 | 0.1 |
| 8.5 | 91.3 | 0.0 | 91.3 | 92.8 | 76.4 | 85.9 | 92.9 | 0.1 |
| 9.0 | 91.6 | 0.0 | 91.6 | 92.8 | 76.4 | 85.8 | 92.8 | 0.1 |
| 9.5 | 91.7 | 0.0 | 91.7 | 93.0 | 76.4 | 85.9 | 92.9 | 0.1 |
| 10.0 | 91.8 | 1.1 | 92.9 | 93.1 | 76.5 | 86.0 | 93.0 | 1.5 |
| 10.5 | 92.1 | 1.4 | 93.5 | 93.3 | 76.8 | 86.1 | 93.1 | 1.5 |
| 11.0 | 92.2 | 1.0 | 93.2 | 93.4 | 76.9 | 86.1 | 93.1 | 1.5 |
| 11.5 | 92.2 | 0.0 | 92.2 | 93.4 | 76.9 | 85.9 | 92.9 | 0.1 |
| 12.0 | 92.4 | 0.0 | 92.4 | 93.5 | 77.5 | 86.0 | 93.0 | 0.1 |
| 12.5 | 92.5 | 0.0 | 92.5 | 93.4 | 77.9 | 86.1 | 93.1 | 0.1 |
| 13.0 | 92.6 | 0.0 | 92.6 | 93.2 | 78.0 | 86.0 | 93.0 | 0.1 |
| 13.5 | 92.4 | 0.0 | 92.4 | 92.8 | 78.2 | 85.8 | 92.8 | 0.1 |
| 14.0 | 93.4 | 0.0 | 93.4 | 92.7 | 79.7 | 86.4 | 93.4 | 0.1 |
| 14.5 | 94.1 | 0.0 | 94.1 | 92.6 | 80.5 | 86.8 | 93.8 | 0.1 |
| 15.0 | 96.1 | 0.0 | 96.1 | 92.9 | 82.5 | 88.3 | 95.3 | 0.1 |
| 15.5 | 97.1 | 0.0 | 97.1 | 92.9 | 83.4 | 89.2 | 96.2 | 0.1 |
| 16.0 | 96.9 | 0.6 | 97.5 | 92.2 | 83.5 | 89.2 | 96.2 | 0.7 |
| 16.5 | 96.6 | 0.7 | 97.3 | 91.1 | 82.9 | 88.6 | 95.6 | 0.7 |
| 17.0 | 96.1 | 0.6 | 96.7 | 90.3 | 82.5 | 88.3 | 95.3 | 0.5 |
| 17.5 | 95.2 | 0.6 | 95.8 | 89.5 | 81.6 | 87.6 | 94.6 | 0.2 |
| 18.0 | 94.1 | 0.5 | 94.6 | 88.5 | 80.5 | 86.6 | 93.6 | 0.2 |
| 18.5 | 93.2 | 0.6 | 93.8 | 87.3 | 79.5 | 85.6 | 92.6 | 0.4 |
| 19.0 | 92.0 | 0.7 | 92.7 | 85.7 | 78.5 | 84.5 | 91.5 | 0.4 |
| 19.5 | 90.8 | 0.6 | 91.4 | 84.4 | 77.7 | 83.5 | 90.5 | 0.4 |
| 20.0 | 90.4 | 1.0 | 91.4 | 83.2 | 77.4 | 83.0 | 90.0 | 1.6 |
| 20.5 | 90.0 | 1.3 | 91.3 | 82.3 | 76.9 | 82.3 | 89.3 | 1.6 |
| 21.0 | 89.0 | 1.5 | 90.5 | 81.4 | 75.9 | 81.3 | 88.3 | 1.6 |
| 21.5 | 88.5 | 1.5 | 90.0 | 81.1 | 75.4 | 80.9 | 87.9 | 1.6 |
| 22.0 | 88.1 | 1.3 | 89.4 | 80.7 | 75.3 | 80.6 | 87.6 | 1.6 |
| 22.5 | 87.1 | 1.5 | 88.6 | 80.0 | 74.2 | 79.5 | 86.5 | 1.6 |
| 23.0 | 86.1 | 1.2 | 87.3 | 79.3 | 73.3 | 78.8 | 85.8 | 1.6 |
| 23.5 | 84.5 | 1.6 | 86.1 | 77.7 | 71.7 | 77.2 | 84.2 | 1.6 |
| 24.0 | 84.7 | 2.3 | 87.0 | 77.1 | 71.8 | 77.1 | 84.1 | 1.6 |
| 24.5 | 85.1 | 1.6 | 86.7 | 77.2 | 72.7 | 77.8 | 84.8 | 1.6 |
| 25.0 | 84.7 | 1.6 | 86.3 | 76.9 | 72.3 | 77.4 | 84.4 | 1.6 |
| 25.5 | 83.3 | 1.7 | 85.0 | 76.2 | 70.8 | 75.8 | 82.8 | 1.6 |
| 26.0 | 81.7 | 1.7 | 83.4 | 75.2 | 69.2 | 74.2 | 81.2 | 1.6 |
| 26.5 | 80.6 | 1.6 | 82.2 | 74.4 | 68.3 | 73.1 | 80.1 | 1.6 |

MAXIMUM VALUES IN BANDS, PNLC = 99.0



| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 86.8 | 86.1 | 87.5 | 86.4 | 85.7 | 83.0 | 85.1 | 84.8 | 82.3 | 79.3 |
| 77.5 | 74.9 | 73.7 | 71.1 | 69.9 | 68.7 | 67.5 | 67.7 | 64.8 | 62.1 |
| 59.9 | 58.5 | 60.4 | 62.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 83.5 | 84.3 | 81.0 | 75.8 | 76.3 | 78.5 | 85.1 | 84.0 | 79.3 | 79.3 |
| 76.7 | 74.9 | 73.7 | 71.1 | 69.3 | 67.3 | 66.4 | 66.3 | 63.5 | 61.2 |
| 58.5 | 56.5 | 54.1 | 51.6 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 24.0 | 2.3 | | | | | | |
| PNL | 15.5 | 97.1 | 22.5 | 105.9 | 26.5 | 106.1 | 98.9 | 96.6 |
| PNLT | 16.0 | 97.5 | 23.0 | 106.3 | 26.5 | 106.5 | 99.4 | 97.0 |
| A-LEV | 16.0 | 83.5 | 22.5 | 91.9 | 26.5 | 92.1 | 85.3 | 83.0 |
| N-LEV | 15.5 | 96.2 | 23.0 | 106.3 | 26.5 | 106.4 | 98.1 | 95.7 |

EPNL = 96.3

TSC BELL 212 #43: 9 DEG. APRCH., 60 KT., 410 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 83.8 | 0.0 | 83.8 | 85.9 | 68.6 | 78.3 | 85.3 | 0.1 |
| 0.5 | 84.2 | 0.0 | 84.2 | 86.2 | 68.9 | 78.5 | 85.5 | 0.1 |
| 1.0 | 84.3 | 0.0 | 84.3 | 86.1 | 69.3 | 78.5 | 85.5 | 0.1 |
| 1.5 | 84.0 | 0.0 | 84.0 | 85.9 | 69.2 | 78.3 | 85.3 | 0.1 |
| 2.0 | 33.9 | 0.0 | 83.9 | 85.9 | 69.3 | 78.2 | 85.2 | 0.1 |
| 2.5 | 84.3 | 1.2 | 85.5 | 86.2 | 70.0 | 78.6 | 85.6 | 1.5 |
| 3.0 | 85.0 | 1.4 | 86.4 | 86.2 | 71.0 | 78.9 | 85.9 | 1.5 |
| 3.5 | 85.7 | 0.6 | 86.3 | 86.5 | 72.4 | 79.6 | 86.6 | 1.0 |
| 4.0 | 86.2 | 0.7 | 86.9 | 86.8 | 73.2 | 80.1 | 87.1 | 1.0 |
| 4.5 | 86.7 | 0.8 | 87.5 | 86.9 | 73.6 | 80.4 | 87.4 | 1.0 |
| 5.0 | 87.0 | 0.0 | 87.0 | 87.1 | 74.1 | 80.6 | 87.6 | 0.1 |
| 5.5 | 86.9 | 2.1 | 89.0 | 87.1 | 74.0 | 80.5 | 87.5 | 1.1 |
| 6.0 | 86.7 | 1.4 | 88.1 | 87.3 | 73.6 | 80.4 | 87.4 | 1.4 |
| 6.5 | 86.6 | 1.4 | 88.0 | 87.2 | 73.4 | 80.2 | 87.2 | 1.4 |
| 7.0 | 86.9 | 1.4 | 88.3 | 87.1 | 73.4 | 80.2 | 87.2 | 1.4 |
| 7.5 | 88.3 | 1.1 | 89.4 | 87.7 | 74.8 | 81.2 | 88.2 | 1.1 |
| 8.0 | 89.1 | 0.0 | 89.1 | 88.3 | 75.7 | 82.0 | 89.0 | 0.1 |
| 8.5 | 89.2 | 0.0 | 89.2 | 88.4 | 75.8 | 82.0 | 89.0 | 0.1 |
| 9.0 | 88.8 | 0.0 | 88.8 | 88.3 | 75.4 | 81.8 | 88.8 | 0.1 |
| 9.5 | 88.7 | 0.0 | 88.7 | 88.3 | 75.1 | 81.6 | 88.6 | 0.1 |
| 10.0 | 88.9 | 0.0 | 88.9 | 88.0 | 75.4 | 81.7 | 88.7 | 0.1 |
| 10.5 | 88.8 | 1.1 | 89.9 | 88.1 | 75.5 | 81.8 | 88.8 | 1.3 |
| 11.0 | 89.3 | 0.0 | 89.3 | 88.4 | 76.1 | 82.3 | 89.3 | 0.1 |
| 11.5 | 90.3 | 0.6 | 90.9 | 88.7 | 77.0 | 83.2 | 90.2 | 0.8 |
| 12.0 | 90.8 | 0.6 | 91.4 | 88.9 | 77.6 | 83.7 | 90.7 | 0.8 |
| 12.5 | 90.7 | 0.7 | 91.4 | 88.9 | 77.4 | 83.5 | 90.5 | 0.8 |
| 13.0 | 91.7 | 0.8 | 92.5 | 89.0 | 78.5 | 84.3 | 91.3 | 0.8 |
| 13.5 | 92.1 | 0.7 | 92.8 | 89.1 | 78.9 | 84.6 | 91.6 | 0.8 |
| 14.0 | 92.7 | 0.8 | 93.5 | 89.3 | 79.2 | 85.0 | 92.0 | 0.8 |
| 14.5 | 92.9 | 0.6 | 93.5 | 89.2 | 79.3 | 85.0 | 92.0 | 0.2 |
| 15.0 | 93.4 | 1.0 | 94.4 | 89.3 | 79.7 | 85.4 | 92.4 | 1.1 |
| 15.5 | 93.1 | 1.1 | 94.2 | 88.9 | 79.3 | 85.2 | 92.2 | 1.1 |
| 16.0 | 93.1 | 0.8 | 93.9 | 88.9 | 79.4 | 85.3 | 92.3 | 0.2 |
| 16.5 | 93.7 | 0.8 | 94.5 | 89.4 | 79.9 | 86.0 | 93.0 | 0.2 |
| 17.0 | 94.2 | 0.9 | 95.1 | 89.8 | 80.6 | 86.6 | 93.6 | 0.2 |
| 17.5 | 93.8 | 0.5 | 94.3 | 89.5 | 80.1 | 86.1 | 93.1 | 0.2 |
| 18.0 | 93.8 | 0.9 | 94.7 | 89.1 | 80.0 | 86.0 | 93.0 | 0.2 |
| 18.5 | 94.7 | 1.1 | 95.8 | 89.7 | 80.9 | 86.8 | 93.8 | 0.2 |
| 19.0 | 94.8 | 1.2 | 96.0 | 89.9 | 81.0 | 87.0 | 94.0 | 0.2 |
| 19.5 | 94.0 | 1.2 | 95.2 | 88.8 | 80.4 | 86.2 | 93.2 | 0.2 |
| 20.0 | 93.1 | 1.2 | 94.3 | 87.8 | 79.8 | 85.7 | 92.7 | 0.2 |
| 20.5 | 92.5 | 1.2 | 93.7 | 87.3 | 79.3 | 85.3 | 92.3 | 0.2 |
| 21.0 | 92.1 | 1.1 | 93.2 | 86.9 | 78.8 | 84.7 | 91.7 | 0.2 |
| 21.5 | 91.8 | 0.7 | 92.5 | 86.4 | 78.4 | 84.3 | 91.3 | 0.2 |
| 22.0 | 92.0 | 0.7 | 92.7 | 86.8 | 78.6 | 84.5 | 91.5 | 0.4 |
| 22.5 | 92.1 | 0.9 | 93.0 | 87.0 | 78.3 | 84.4 | 91.4 | 0.4 |
| 23.0 | 91.8 | 0.9 | 92.7 | 86.6 | 77.9 | 84.1 | 91.1 | 0.4 |
| 23.5 | 91.5 | 1.1 | 92.6 | 86.4 | 77.6 | 83.8 | 90.8 | 0.4 |
| 24.0 | 91.2 | 1.0 | 92.2 | 86.0 | 77.1 | 83.4 | 90.4 | 0.4 |
| 24.5 | 90.7 | 1.0 | 91.7 | 85.7 | 76.7 | 82.9 | 89.9 | 0.4 |
| 25.0 | 90.3 | 0.8 | 91.1 | 85.4 | 76.2 | 82.4 | 89.4 | 0.4 |
| 25.5 | 89.7 | 0.7 | 90.4 | 85.0 | 75.7 | 81.9 | 88.9 | 0.6 |
| 26.0 | 90.2 | 0.5 | 90.7 | 85.6 | 76.3 | 82.4 | 89.4 | 0.6 |
| 26.5 | 90.6 | 0.5 | 91.1 | 85.9 | 76.3 | 82.5 | 89.5 | 0.6 |
| 27.0 | 90.3 | 0.6 | 90.9 | 85.5 | 76.1 | 82.4 | 89.4 | 0.6 |
| 27.5 | 90.3 | 0.0 | 90.3 | 85.4 | 76.4 | 82.6 | 89.6 | 0.1 |
| 28.0 | 89.3 | 0.0 | 89.3 | 84.6 | 75.5 | 81.7 | 88.7 | 0.1 |
| 28.5 | 88.2 | 0.0 | 88.2 | 83.6 | 74.6 | 80.9 | 87.9 | 0.1 |
| 29.0 | 87.9 | 1.1 | 89.0 | 83.4 | 74.0 | 80.3 | 87.3 | 1.1 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 87.6 | 1.0 | 88.6 | 83.2 | 73.7 | 80.0 | 87.0 | 1.1 |
| 30.0 | 87.4 | 0.0 | 87.4 | 82.8 | 73.4 | 79.7 | 86.7 | 0.1 |
| 30.5 | 86.5 | 0.0 | 86.5 | 82.1 | 72.5 | 78.9 | 85.9 | 0.1 |
| 31.0 | 86.4 | 1.1 | 87.5 | 81.7 | 72.7 | 78.9 | 85.9 | 1.2 |
| 31.5 | 86.1 | 1.2 | 87.3 | 81.1 | 72.6 | 78.7 | 85.7 | 1.2 |
| 32.0 | 85.0 | 1.0 | 86.0 | 80.8 | 71.5 | 77.6 | 84.6 | 1.2 |
| 32.5 | 83.8 | 0.0 | 83.8 | 79.9 | 70.2 | 76.4 | 83.4 | 0.1 |
| 33.0 | 83.1 | 0.0 | 83.1 | 79.0 | 69.3 | 75.6 | 82.6 | 0.1 |
| 33.5 | 82.4 | 0.5 | 82.9 | 78.8 | 68.8 | 75.2 | 82.2 | 0.4 |

MAXIMUM VALUES IN BANDS, PNLC = 96.1

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 83.2 | 83.9 | 79.9 | 78.5 | 79.0 | 81.2 | 83.1 | 82.1 | 78.9 | 75.9 |
| 73.7 | 72.8 | 70.2 | 69.1 | 70.0 | 68.7 | 67.9 | 65.3 | 62.5 | 60.9 |
| 58.4 | 56.6 | 59.9 | 62.6 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 82.0 | 83.0 | 69.4 | 68.8 | 76.7 | 81.2 | 83.0 | 77.8 | 76.1 | 75.1 |
| 72.4 | 71.8 | 69.9 | 69.0 | 70.0 | 68.7 | 67.9 | 65.3 | 62.2 | 60.2 |
| 57.3 | 55.5 | 55.1 | 54.0 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 5.5 | 2.1 | | | | | | |
| PNL | 19.0 | 94.8 | 30.0 | 105.6 | 33.5 | 105.7 | 97.8 | 95.3 |
| PNLT | 19.0 | 96.0 | 29.5 | 106.4 | 33.5 | 106.5 | 98.9 | 96.5 |
| A-LEV | 19.0 | 81.0 | 29.5 | 91.9 | 33.5 | 92.0 | 83.9 | 81.5 |
| N-LEV | 19.0 | 94.0 | 32.5 | 105.2 | 33.5 | 105.2 | 97.4 | 94.5 |

EPNL = 96.4

TSC 300C #34: FLYOVER, 75 MPH, 500 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 65.6 | 0.0 | 65.6 | 60.1 | 51.7 | 59.1 | 66.1 | 0.1 |
| 0.5 | 78.3 | 0.8 | 79.1 | 76.7 | 64.8 | 71.0 | 78.0 | 0.7 |
| 1.0 | 76.6 | 0.9 | 77.5 | 74.8 | 63.1 | 69.4 | 76.4 | 0.7 |
| 1.5 | 74.7 | 0.8 | 75.5 | 72.7 | 61.2 | 67.7 | 74.7 | 0.7 |
| 2.0 | 73.1 | 0.9 | 74.0 | 71.7 | 59.4 | 66.3 | 73.3 | 0.7 |
| 2.5 | 72.3 | 0.8 | 73.1 | 71.2 | 59.0 | 65.8 | 72.8 | 0.4 |
| 3.0 | 71.8 | 0.9 | 72.7 | 71.0 | 58.0 | 65.3 | 72.3 | 0.4 |
| 3.5 | 71.4 | 1.0 | 72.4 | 69.9 | 57.7 | 64.7 | 71.7 | 0.4 |
| 4.0 | 71.4 | 0.7 | 72.1 | 70.4 | 57.6 | 64.8 | 71.8 | 0.4 |
| 4.5 | 72.0 | 0.8 | 72.8 | 70.2 | 58.3 | 65.0 | 72.0 | 0.4 |
| 5.0 | 72.1 | 0.8 | 72.9 | 69.9 | 58.5 | 65.0 | 72.0 | 0.9 |
| 5.5 | 71.3 | 0.9 | 72.2 | 69.0 | 57.7 | 64.3 | 71.3 | 0.9 |
| 6.0 | 70.9 | 0.9 | 71.8 | 68.2 | 57.4 | 63.9 | 70.9 | 0.4 |
| 6.5 | 69.8 | 1.1 | 70.9 | 67.3 | 56.3 | 63.1 | 70.1 | 0.4 |
| 7.0 | 69.1 | 1.2 | 70.3 | 66.5 | 55.5 | 62.6 | 69.6 | 0.4 |
| 7.5 | 68.5 | 1.3 | 69.8 | 65.7 | 55.0 | 62.1 | 69.1 | 0.4 |
| 8.0 | 68.7 | 1.2 | 69.9 | 65.7 | 55.0 | 62.2 | 69.2 | 0.4 |
| 8.5 | 69.6 | 1.2 | 70.8 | 65.9 | 56.0 | 62.7 | 69.7 | 0.4 |
| 9.0 | 70.5 | 1.2 | 71.7 | 66.4 | 56.9 | 63.3 | 70.3 | 0.4 |
| 9.5 | 71.8 | 1.0 | 72.8 | 68.1 | 58.3 | 64.4 | 71.4 | 0.4 |
| 10.0 | 72.0 | 1.1 | 73.1 | 68.4 | 58.5 | 64.7 | 71.7 | 0.4 |
| 10.5 | 71.9 | 1.2 | 73.1 | 68.0 | 58.4 | 64.5 | 71.5 | 0.4 |
| 11.0 | 71.9 | 1.2 | 73.1 | 68.4 | 58.5 | 64.6 | 71.6 | 0.4 |
| 11.5 | 71.6 | 1.6 | 73.2 | 67.6 | 58.4 | 64.5 | 71.5 | 0.7 |
| 12.0 | 71.0 | 1.7 | 72.7 | 66.6 | 57.7 | 63.9 | 70.9 | 0.7 |
| 12.5 | 71.4 | 1.6 | 73.0 | 66.4 | 58.5 | 64.3 | 71.3 | 0.7 |
| 13.0 | 72.9 | 1.7 | 74.6 | 67.2 | 60.1 | 65.6 | 72.6 | 0.7 |
| 13.5 | 73.5 | 1.8 | 75.3 | 67.5 | 60.6 | 66.1 | 73.1 | 0.7 |
| 14.0 | 73.8 | 1.9 | 75.7 | 67.8 | 60.9 | 66.4 | 73.4 | 0.7 |
| 14.5 | 74.7 | 1.9 | 76.6 | 68.4 | 61.9 | 67.4 | 74.4 | 0.7 |
| 15.0 | 74.7 | 1.9 | 76.6 | 68.4 | 62.0 | 67.4 | 74.4 | 0.7 |
| 15.5 | 75.3 | 2.0 | 77.3 | 68.8 | 62.8 | 68.3 | 75.3 | 0.7 |
| 16.0 | 77.3 | 2.0 | 79.3 | 70.5 | 64.7 | 70.2 | 77.2 | 0.7 |
| 16.5 | 77.7 | 2.1 | 79.8 | 71.0 | 65.3 | 70.7 | 77.7 | 0.7 |
| 17.0 | 77.4 | 1.9 | 79.3 | 70.8 | 65.1 | 70.6 | 77.6 | 0.7 |
| 17.5 | 77.6 | 1.6 | 79.2 | 70.9 | 65.3 | 70.8 | 77.8 | 0.7 |
| 18.0 | 79.0 | 1.6 | 80.6 | 72.0 | 66.7 | 72.2 | 79.2 | 0.4 |
| 18.5 | 79.9 | 1.6 | 81.5 | 73.2 | 67.5 | 73.0 | 80.0 | 0.4 |
| 19.0 | 79.7 | 1.7 | 81.4 | 73.2 | 67.4 | 73.0 | 80.0 | 0.4 |
| 19.5 | 80.0 | 1.6 | 81.6 | 73.2 | 67.4 | 73.1 | 80.1 | 0.4 |
| 20.0 | 81.1 | 1.8 | 82.9 | 73.9 | 68.5 | 74.1 | 81.1 | 0.4 |
| 20.5 | 80.9 | 1.8 | 82.7 | 73.9 | 68.2 | 73.8 | 80.8 | 0.4 |
| 21.0 | 80.6 | 1.8 | 82.4 | 73.5 | 68.0 | 73.6 | 80.6 | 0.4 |
| 21.5 | 80.7 | 1.8 | 82.5 | 73.5 | 68.0 | 73.7 | 80.7 | 0.4 |
| 22.0 | 80.3 | 1.7 | 82.0 | 73.5 | 67.7 | 73.4 | 80.4 | 0.4 |
| 22.5 | 79.5 | 1.6 | 81.1 | 73.1 | 67.0 | 72.7 | 79.7 | 0.4 |
| 23.0 | 78.9 | 1.4 | 80.3 | 72.2 | 66.5 | 72.1 | 79.1 | 0.4 |
| 23.5 | 78.1 | 1.5 | 79.6 | 71.4 | 65.7 | 71.4 | 78.4 | 0.4 |
| 24.0 | 78.7 | 1.0 | 79.7 | 71.4 | 66.6 | 72.0 | 79.0 | 0.7 |
| 24.5 | 79.2 | 1.3 | 80.5 | 71.4 | 67.0 | 72.5 | 79.5 | 0.7 |
| 25.0 | 78.4 | 1.5 | 79.9 | 70.9 | 66.2 | 71.6 | 78.6 | 0.7 |
| 25.5 | 77.8 | 1.7 | 79.5 | 70.9 | 65.8 | 71.1 | 78.1 | 0.7 |
| 26.0 | 78.3 | 1.7 | 80.0 | 70.9 | 66.2 | 71.5 | 78.5 | 0.7 |
| 26.5 | 77.7 | 1.6 | 79.3 | 70.1 | 65.6 | 70.9 | 77.9 | 0.4 |
| 27.0 | 77.2 | 2.0 | 79.2 | 70.1 | 65.1 | 70.4 | 77.4 | 0.4 |
| 27.5 | 76.5 | 2.0 | 78.5 | 69.9 | 64.2 | 69.8 | 76.8 | 0.4 |
| 28.0 | 75.5 | 2.0 | 77.5 | 69.2 | 63.2 | 68.6 | 75.6 | 0.4 |
| 28.5 | 75.3 | 2.1 | 77.4 | 69.1 | 63.0 | 68.5 | 75.5 | 0.4 |
| 29.0 | 76.6 | 2.1 | 78.7 | 69.1 | 64.7 | 69.9 | 76.9 | 0.4 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 75.4 | 2.0 | 77.4 | 68.3 | 63.5 | 68.6 | 75.6 | 0.4 |
| 30.0 | 74.8 | 2.1 | 76.9 | 68.2 | 63.2 | 68.0 | 75.0 | 0.4 |
| 30.5 | 73.8 | 2.2 | 76.0 | 67.8 | 62.1 | 67.0 | 74.0 | 0.4 |
| 31.0 | 73.0 | 2.0 | 75.0 | 67.6 | 61.1 | 66.2 | 73.2 | 0.4 |
| 31.5 | 72.0 | 1.7 | 73.7 | 66.8 | 60.0 | 65.2 | 72.2 | 1.1 |
| 32.0 | 71.4 | 1.5 | 72.9 | 67.1 | 59.4 | 64.9 | 71.9 | 1.1 |

MAXIMUM VALUES IN BANDS, PNLC = 82.3

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 72.0 | 68.7 | 65.6 | 68.4 | 64.3 | 62.1 | 66.9 | 65.3 | 65.6 | 61.2 |
| 59.7 | 58.9 | 57.6 | 59.6 | 58.9 | 57.1 | 57.6 | 56.7 | 50.8 | 47.9 |
| 44.8 | 44.9 | 45.9 | 47.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 61.1 | 58.0 | 60.3 | 68.1 | 57.4 | 56.8 | 62.1 | 64.0 | 64.8 | 61.2 |
| 58.3 | 58.7 | 57.2 | 59.5 | 58.9 | 57.0 | 57.6 | 56.7 | 50.3 | 47.5 |
| 44.5 | 43.4 | 44.0 | 45.1 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 30.5 | 2.2 | | | | | | |
| PNL | 20.0 | 81.1 | 20.0 | 90.7 | 32.0 | 91.4 | 82.3 | 81.4 |
| PNLT | 20.0 | 82.9 | 20.0 | 92.4 | 32.0 | 93.0 | 84.1 | 83.2 |
| A-LEV | 20.0 | 68.5 | 19.5 | 78.3 | 32.0 | 78.9 | 69.6 | 68.8 |
| N-LEV | 20.0 | 81.1 | 20.0 | 90.8 | 32.0 | 91.5 | 82.3 | 81.4 |

EPNL = 82.4

TSC 300 C #44: 6 DEG. APRCH., 60 MPH, 400 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 69.9 | 1.2 | 71.1 | 66.7 | 57.4 | 63.2 | 70.2 | 1.3 |
| 0.5 | 71.2 | 1.0 | 72.2 | 67.2 | 58.8 | 64.1 | 71.1 | 0.4 |
| 1.0 | 71.8 | 0.9 | 72.7 | 67.7 | 59.1 | 64.5 | 71.5 | 0.4 |
| 1.5 | 71.9 | 0.8 | 72.7 | 67.7 | 59.4 | 64.7 | 71.7 | 0.4 |
| 2.0 | 71.5 | 0.8 | 72.3 | 67.7 | 58.7 | 64.3 | 71.3 | 0.4 |
| 2.5 | 70.6 | 0.9 | 71.5 | 67.1 | 57.8 | 63.7 | 70.7 | 0.4 |
| 3.0 | 70.8 | 0.8 | 71.6 | 67.3 | 57.4 | 63.7 | 70.7 | 0.4 |
| 3.5 | 72.0 | 1.3 | 73.3 | 67.6 | 58.1 | 64.3 | 71.3 | 0.9 |
| 4.0 | 71.8 | 1.4 | 73.2 | 67.3 | 57.9 | 64.2 | 71.2 | 0.9 |
| 4.5 | 71.3 | 1.3 | 72.6 | 66.5 | 57.7 | 63.8 | 70.8 | 0.9 |
| 5.0 | 71.6 | 1.2 | 72.8 | 66.8 | 58.2 | 64.2 | 71.2 | 0.4 |
| 5.5 | 73.7 | 1.5 | 75.2 | 68.4 | 60.5 | 65.9 | 72.9 | 0.9 |
| 6.0 | 74.4 | 1.6 | 76.0 | 69.8 | 61.4 | 66.8 | 73.8 | 0.7 |
| 6.5 | 74.3 | 1.7 | 76.0 | 69.9 | 61.3 | 66.9 | 73.9 | 0.7 |
| 7.0 | 74.0 | 1.8 | 75.8 | 70.1 | 60.7 | 66.7 | 73.7 | 0.7 |
| 7.5 | 74.8 | 1.7 | 76.5 | 70.9 | 61.1 | 67.2 | 74.2 | 0.7 |
| 8.0 | 75.7 | 1.7 | 77.4 | 70.7 | 62.3 | 68.0 | 75.0 | 0.7 |
| 8.5 | 77.6 | 1.3 | 78.9 | 71.9 | 65.1 | 70.1 | 77.1 | 0.7 |
| 9.0 | 78.8 | 1.3 | 80.1 | 72.9 | 66.6 | 71.4 | 78.4 | 0.7 |
| 9.5 | 78.7 | 1.5 | 80.2 | 72.4 | 66.4 | 71.3 | 78.3 | 0.7 |
| 10.0 | 79.0 | 1.8 | 80.8 | 72.5 | 66.6 | 71.6 | 78.6 | 0.7 |
| 10.5 | 78.4 | 1.8 | 80.2 | 71.9 | 65.7 | 71.0 | 78.0 | 0.7 |
| 11.0 | 78.1 | 1.6 | 79.7 | 71.7 | 65.5 | 71.1 | 78.1 | 0.7 |
| 11.5 | 78.0 | 1.3 | 79.3 | 71.5 | 65.6 | 71.1 | 78.1 | 0.7 |
| 12.0 | 77.9 | 1.5 | 79.4 | 71.5 | 65.5 | 71.0 | 78.0 | 0.4 |
| 12.5 | 78.8 | 1.6 | 80.4 | 72.4 | 66.3 | 71.9 | 78.9 | 0.4 |
| 13.0 | 79.9 | 1.4 | 81.3 | 73.5 | 67.7 | 73.1 | 80.1 | 0.4 |
| 13.5 | 81.0 | 1.0 | 82.0 | 75.3 | 69.2 | 74.4 | 81.4 | 0.4 |
| 14.0 | 80.9 | 0.9 | 81.8 | 75.5 | 69.4 | 74.5 | 81.5 | 0.4 |
| 14.5 | 80.7 | 0.7 | 81.4 | 74.9 | 69.1 | 74.0 | 81.0 | 0.4 |
| 15.0 | 79.8 | 0.7 | 80.5 | 73.8 | 68.3 | 73.2 | 80.2 | 0.4 |
| 15.5 | 79.0 | 1.0 | 80.0 | 72.9 | 67.3 | 72.4 | 79.4 | 0.6 |
| 16.0 | 78.7 | 1.3 | 80.0 | 72.7 | 67.0 | 72.0 | 79.0 | 0.6 |
| 16.5 | 77.9 | 1.4 | 79.3 | 72.2 | 66.1 | 71.1 | 78.1 | 0.6 |
| 17.0 | 78.1 | 0.8 | 78.9 | 72.3 | 66.8 | 71.5 | 78.5 | 0.6 |
| 17.5 | 77.2 | 0.8 | 78.0 | 71.6 | 65.7 | 70.6 | 77.6 | 0.6 |
| 18.0 | 75.8 | 0.7 | 76.5 | 70.1 | 64.1 | 69.1 | 76.1 | 0.6 |
| 18.5 | 75.0 | 0.7 | 75.7 | 69.1 | 63.2 | 68.2 | 75.2 | 0.6 |
| 19.0 | 74.4 | 0.0 | 74.4 | 68.5 | 62.3 | 67.6 | 74.6 | 0.1 |
| 19.5 | 74.8 | 0.0 | 74.8 | 68.7 | 62.3 | 67.7 | 74.7 | 0.1 |
| 20.0 | 74.2 | 0.0 | 74.2 | 68.5 | 61.8 | 67.3 | 74.3 | 0.1 |
| 20.5 | 73.5 | 0.0 | 73.5 | 68.5 | 60.7 | 66.5 | 73.5 | 0.1 |
| 21.0 | 72.5 | 0.0 | 72.5 | 68.1 | 59.9 | 65.6 | 72.6 | 0.1 |
| 21.5 | 71.1 | 0.0 | 71.1 | 67.3 | 58.3 | 64.4 | 71.4 | 0.1 |
| 22.0 | 70.7 | 0.0 | 70.7 | 67.8 | 57.7 | 64.1 | 71.1 | 0.1 |
| 22.5 | 70.5 | 0.5 | 71.0 | 67.7 | 57.8 | 64.0 | 71.0 | 0.4 |
| 23.0 | 69.8 | 0.6 | 70.4 | 67.7 | 56.7 | 63.5 | 70.5 | 0.4 |
| 23.5 | 69.8 | 0.5 | 70.3 | 67.3 | 56.7 | 63.3 | 70.3 | 0.4 |
| 24.0 | 69.7 | 0.5 | 70.2 | 67.0 | 56.9 | 63.2 | 70.2 | 0.3 |
| 24.5 | 69.4 | 0.5 | 69.9 | 66.5 | 56.5 | 62.8 | 69.8 | 0.3 |
| 25.0 | 69.9 | 0.0 | 69.9 | 65.7 | 57.6 | 63.1 | 70.1 | 0.1 |
| 25.5 | 69.4 | 0.5 | 69.9 | 64.7 | 57.3 | 62.8 | 69.8 | 0.3 |
| 26.0 | 69.0 | 0.5 | 69.5 | 64.6 | 56.2 | 62.3 | 69.3 | 0.8 |
| 26.5 | 68.8 | 0.5 | 69.3 | 64.3 | 55.7 | 62.1 | 69.1 | 0.3 |
| 27.0 | 69.5 | 0.6 | 70.1 | 65.2 | 56.6 | 62.9 | 69.9 | 0.3 |
| 27.5 | 69.4 | 0.5 | 69.9 | 65.5 | 56.3 | 62.8 | 69.8 | 0.3 |
| 28.0 | 68.9 | 0.5 | 69.4 | 65.0 | 55.4 | 62.3 | 69.3 | 0.3 |
| 28.5 | 68.5 | 0.6 | 69.1 | 64.5 | 55.0 | 61.9 | 68.9 | 0.3 |
| 29.0 | 68.7 | 0.6 | 69.3 | 64.0 | 55.5 | 62.0 | 69.0 | 0.3 |

MAXIMUM VALUES IN BANDS, PNLC = 81.9

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 66.1 | 59.5 | 61.9 | 67.5 | 65.1 | 66.7 | 68.7 | 66.7 | 65.5 | 63.4 |
| 63.0 | 61.8 | 60.3 | 59.4 | 58.6 | 56.6 | 55.8 | 53.9 | 50.1 | 46.7 |
| 44.3 | 43.6 | 44.7 | 45.7 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 59.7 | 54.1 | 59.7 | 67.5 | 64.8 | 65.5 | 64.2 | 66.7 | 65.4 | 63.4 |
| 61.7 | 61.4 | 59.7 | 59.4 | 58.6 | 56.4 | 55.6 | 53.9 | 49.5 | 46.4 |
| 44.1 | 43.5 | 44.1 | 45.2 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 7.0 | 1.8 | | | | | | |
| PNL | 13.5 | 81.0 | 19.0 | 89.9 | 29.0 | 90.3 | 82.0 | 80.9 |
| PNLT | 13.5 | 82.0 | 18.5 | 91.1 | 29.0 | 91.5 | 82.9 | 81.9 |
| A-LEV | 14.0 | 69.4 | 16.5 | 77.7 | 29.0 | 78.1 | 69.8 | 69.3 |
| N-LEV | 14.0 | 81.5 | 16.5 | 89.8 | 29.0 | 90.4 | 81.9 | 81.4 |

EPNL = 81.1

TSC 206L #46: 6 DEG. APRCH., 70 MPH, 400 FT.

| T | PNL | P. T | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 72.1 | 0.0 | 72.1 | 67.9 | 59.7 | 64.7 | 71.7 | 0.1 |
| 0.5 | 71.4 | 0.0 | 71.4 | 68.0 | 58.6 | 64.1 | 71.1 | 0.1 |
| 1.0 | 71.3 | 0.6 | 71.9 | 68.0 | 58.6 | 64.1 | 71.1 | 0.4 |
| 1.5 | 70.8 | 0.6 | 71.4 | 68.0 | 57.8 | 63.7 | 70.7 | 0.4 |
| 2.0 | 70.4 | 0.0 | 70.4 | 67.9 | 57.4 | 63.5 | 70.5 | 0.1 |
| 2.5 | 69.7 | 0.6 | 70.3 | 67.9 | 56.5 | 63.1 | 70.1 | 0.7 |
| 3.0 | 69.4 | 0.0 | 69.4 | 68.4 | 56.1 | 63.1 | 70.1 | 0.1 |
| 3.5 | 69.4 | 0.0 | 69.4 | 68.9 | 55.9 | 63.3 | 70.3 | 0.1 |
| 4.0 | 72.7 | 0.8 | 73.5 | 69.7 | 59.0 | 65.2 | 72.2 | 1.0 |
| 4.5 | 73.0 | 0.8 | 73.8 | 70.0 | 59.4 | 65.5 | 72.5 | 1.0 |
| 5.0 | 71.8 | 0.7 | 72.5 | 69.5 | 58.1 | 64.6 | 71.6 | 1.0 |
| 5.5 | 71.3 | 0.8 | 72.1 | 69.6 | 57.6 | 64.3 | 71.3 | 0.8 |
| 6.0 | 72.7 | 1.4 | 74.1 | 70.2 | 59.0 | 65.3 | 72.3 | 1.3 |
| 6.5 | 72.6 | 1.2 | 73.8 | 70.4 | 58.8 | 65.4 | 72.4 | 1.3 |
| 7.0 | 71.9 | 1.1 | 73.0 | 70.7 | 57.8 | 64.9 | 71.9 | 1.3 |
| 7.5 | 72.0 | 1.0 | 73.0 | 71.3 | 57.6 | 65.1 | 72.1 | 1.0 |
| 8.0 | 72.2 | 1.0 | 73.2 | 71.3 | 57.8 | 65.2 | 72.2 | 1.0 |
| 8.5 | 73.1 | 0.8 | 73.9 | 72.1 | 58.9 | 66.1 | 73.1 | 1.0 |
| 9.0 | 75.0 | 0.7 | 75.7 | 73.0 | 61.3 | 67.7 | 74.7 | 1.0 |
| 9.5 | 75.3 | 0.6 | 75.9 | 73.1 | 61.8 | 67.9 | 74.9 | 1.0 |
| 10.0 | 75.6 | 0.6 | 76.2 | 73.6 | 62.1 | 68.2 | 75.2 | 1.0 |
| 10.5 | 75.8 | 0.5 | 76.3 | 73.8 | 62.4 | 68.5 | 75.5 | 1.0 |
| 11.0 | 75.7 | 0.6 | 76.3 | 74.3 | 62.2 | 68.5 | 75.5 | 1.0 |
| 11.5 | 75.6 | 0.6 | 76.2 | 74.0 | 62.0 | 68.3 | 75.3 | 1.0 |
| 12.0 | 75.9 | 0.6 | 76.5 | 74.0 | 62.6 | 68.6 | 75.6 | 1.0 |
| 12.5 | 77.3 | 0.8 | 78.1 | 74.3 | 64.3 | 69.8 | 76.8 | 1.0 |
| 13.0 | 79.0 | 0.7 | 79.7 | 76.0 | 66.5 | 71.7 | 78.7 | 1.0 |
| 13.5 | 80.5 | 1.2 | 81.7 | 77.3 | 69.2 | 73.8 | 80.8 | 1.2 |
| 14.0 | 81.2 | 1.3 | 82.5 | 77.6 | 70.0 | 74.6 | 81.6 | 1.2 |
| 14.5 | 82.7 | 1.1 | 83.8 | 78.6 | 71.5 | 76.0 | 83.0 | 1.2 |
| 15.0 | 83.1 | 0.0 | 83.1 | 79.0 | 71.9 | 76.5 | 83.5 | 0.1 |
| 15.5 | 83.1 | 0.0 | 83.1 | 79.2 | 72.5 | 76.6 | 83.6 | 0.1 |
| 16.0 | 83.5 | 1.2 | 84.7 | 79.2 | 72.4 | 76.5 | 83.5 | 1.1 |
| 16.5 | 84.5 | 1.6 | 86.1 | 79.9 | 73.3 | 77.4 | 84.4 | 1.1 |
| 17.0 | 83.9 | 1.6 | 85.5 | 79.3 | 72.3 | 76.6 | 83.6 | 1.1 |
| 17.5 | 83.0 | 1.5 | 84.5 | 78.5 | 71.2 | 75.5 | 82.5 | 1.1 |
| 18.0 | 82.1 | 1.8 | 83.9 | 78.1 | 70.0 | 74.7 | 81.7 | 1.1 |
| 18.5 | 81.2 | 1.6 | 82.8 | 77.4 | 68.9 | 74.0 | 81.0 | 1.1 |
| 19.0 | 80.9 | 0.9 | 81.8 | 77.3 | 68.5 | 73.9 | 80.9 | 0.6 |
| 19.5 | 81.8 | 1.0 | 82.8 | 78.0 | 69.5 | 75.0 | 82.0 | 0.6 |
| 20.0 | 82.7 | 0.8 | 83.5 | 78.2 | 70.3 | 75.8 | 82.8 | 0.6 |
| 20.5 | 82.5 | 0.9 | 83.4 | 78.1 | 70.3 | 75.9 | 82.9 | 0.6 |
| 21.0 | 84.1 | 1.0 | 85.1 | 78.8 | 71.8 | 77.2 | 84.2 | 0.6 |
| 21.5 | 84.9 | 1.2 | 86.1 | 79.3 | 72.6 | 78.0 | 85.0 | 0.6 |
| 22.0 | 84.8 | 1.1 | 85.9 | 79.3 | 72.6 | 78.0 | 85.0 | 0.6 |
| 22.5 | 85.8 | 1.1 | 86.9 | 80.3 | 73.9 | 79.1 | 86.1 | 0.6 |
| 23.0 | 86.6 | 1.1 | 87.7 | 80.9 | 74.4 | 79.7 | 86.7 | 0.6 |
| 23.5 | 86.2 | 1.1 | 87.3 | 80.5 | 73.9 | 79.3 | 86.3 | 0.6 |
| 24.0 | 85.8 | 1.2 | 87.0 | 80.2 | 73.6 | 79.0 | 86.0 | 0.6 |
| 24.5 | 85.4 | 1.1 | 86.5 | 79.7 | 73.4 | 78.6 | 85.6 | 0.6 |
| 25.0 | 85.1 | 1.1 | 86.2 | 79.0 | 73.1 | 78.0 | 85.0 | 0.6 |
| 25.5 | 84.6 | 1.1 | 85.7 | 78.5 | 72.9 | 77.6 | 84.6 | 0.6 |
| 26.0 | 83.5 | 1.1 | 84.6 | 77.4 | 72.3 | 76.8 | 83.8 | 0.6 |
| 26.5 | 82.7 | 1.0 | 83.7 | 76.8 | 71.9 | 76.0 | 83.0 | 0.6 |
| 27.0 | 82.3 | 0.8 | 83.1 | 76.9 | 71.4 | 75.6 | 82.6 | 0.6 |
| 27.5 | 82.5 | 0.7 | 83.2 | 77.1 | 71.0 | 75.5 | 82.5 | 0.6 |
| 28.0 | 82.4 | 0.9 | 83.3 | 76.8 | 70.7 | 75.2 | 82.2 | 0.9 |
| 28.5 | 82.0 | 1.0 | 83.0 | 76.5 | 70.4 | 75.0 | 82.0 | 0.6 |
| 29.0 | 81.4 | 1.2 | 82.6 | 75.9 | 69.9 | 74.5 | 81.5 | 0.6 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 80.7 | 1.1 | 81.8 | 75.6 | 69.1 | 73.8 | 80.8 | 0.6 |
| 30.0 | 81.0 | 1.0 | 82.0 | 75.9 | 69.1 | 73.9 | 80.9 | 0.6 |
| 30.5 | 81.8 | 1.1 | 82.9 | 77.0 | 69.8 | 74.8 | 81.8 | 0.6 |
| 31.0 | 81.5 | 0.8 | 82.3 | 76.6 | 69.6 | 74.5 | 81.5 | 0.6 |
| 31.5 | 81.3 | 0.9 | 82.2 | 76.2 | 69.2 | 74.1 | 81.1 | 0.6 |
| 32.0 | 80.8 | 1.0 | 81.8 | 75.7 | 68.9 | 73.7 | 80.7 | 1.1 |
| 32.5 | 80.6 | 0.7 | 81.3 | 75.4 | 68.5 | 73.4 | 80.4 | 0.8 |
| 33.0 | 80.3 | 0.8 | 81.1 | 75.3 | 68.1 | 73.1 | 80.1 | 0.8 |
| 33.5 | 80.8 | 0.6 | 81.4 | 75.9 | 68.5 | 73.6 | 80.6 | 0.8 |
| 34.0 | 80.0 | 0.6 | 80.6 | 75.1 | 67.9 | 72.8 | 79.8 | 0.8 |
| 34.5 | 79.3 | 0.5 | 79.8 | 74.3 | 67.3 | 72.0 | 79.0 | 0.3 |
| 35.0 | 78.6 | 1.1 | 79.7 | 73.7 | 66.7 | 71.3 | 78.3 | 0.8 |
| 35.5 | 78.4 | 0.5 | 78.9 | 73.5 | 66.7 | 71.3 | 78.3 | 0.3 |
| 36.0 | 79.0 | 1.3 | 80.3 | 73.9 | 67.1 | 71.7 | 78.7 | 1.3 |
| 36.5 | 78.0 | 1.3 | 79.3 | 73.1 | 66.0 | 70.6 | 77.6 | 1.3 |
| 37.0 | 77.8 | 1.3 | 79.1 | 73.0 | 65.9 | 70.5 | 77.5 | 1.3 |
| 37.5 | 78.4 | 1.1 | 79.5 | 73.2 | 66.6 | 71.1 | 78.1 | 1.3 |
| 38.0 | 77.9 | 0.5 | 78.4 | 72.4 | 66.0 | 70.4 | 77.4 | 0.6 |
| 38.5 | 77.8 | 1.0 | 78.8 | 72.3 | 65.9 | 70.4 | 77.4 | 0.9 |
| 39.0 | 77.9 | 0.8 | 78.7 | 72.2 | 66.4 | 70.6 | 77.6 | 1.0 |
| 39.5 | 77.7 | 0.0 | 77.7 | 72.1 | 66.3 | 70.4 | 77.4 | 0.1 |
| 40.0 | 76.4 | 0.0 | 76.4 | 71.3 | 64.8 | 69.1 | 76.1 | 0.1 |
| 40.5 | 75.2 | 0.0 | 75.2 | 70.5 | 63.2 | 67.8 | 74.8 | 0.1 |
| 41.0 | 74.4 | 0.0 | 74.4 | 69.8 | 62.6 | 67.2 | 74.2 | 0.1 |
| 41.5 | 74.0 | 0.5 | 74.5 | 69.0 | 62.5 | 66.7 | 73.7 | 0.8 |
| 42.0 | 72.9 | 0.5 | 73.4 | 68.4 | 61.0 | 65.6 | 72.6 | 0.8 |
| 42.5 | 71.6 | 0.6 | 72.2 | 67.9 | 59.4 | 64.6 | 71.6 | 0.8 |
| 43.0 | 71.2 | 0.7 | 71.9 | 67.2 | 58.4 | 64.1 | 71.1 | 0.8 |

MAXIMUM VALUES IN BANDS, PNLC = 87.6

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 72.6 | 71.8 | 68.1 | 65.8 | 67.3 | 76.0 | 71.9 | 71.9 | 72.2 | 69.6 |
| 71.8 | 67.7 | 65.3 | 64.0 | 62.6 | 62.1 | 61.1 | 58.5 | 55.6 | 51.6 |
| 47.1 | 44.0 | 44.2 | 45.2 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 65.6 | 62.9 | 67.1 | 65.4 | 67.3 | 76.0 | 71.9 | 67.8 | 70.4 | 69.6 |
| 67.2 | 66.7 | 65.1 | 63.2 | 62.6 | 62.1 | 61.1 | 58.5 | 55.6 | 51.6 |
| 47.1 | 44.0 | 44.0 | 44.9 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 18.0 | 1.8 | | | | | | |
| PNL | 23.0 | 86.6 | 28.0 | 96.8 | 43.0 | 97.1 | 89.3 | 88.2 |
| PNLT | 23.0 | 87.7 | 27.5 | 97.8 | 43.0 | 98.1 | 90.3 | 89.3 |
| A-LEV | 23.0 | 74.4 | 28.0 | 85.0 | 43.0 | 85.2 | 77.1 | 76.0 |
| N-LEV | 23.0 | 86.7 | 28.0 | 96.8 | 43.0 | 97.1 | 89.4 | 88.3 |

EPNL = 87.8

TSC 206L #71: FLYOVER, 130 MPH, 560 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 76.2 | 0.6 | 76.8 | 76.8 | 60.3 | 69.6 | 76.6 | 0.4 |
| 0.5 | 76.3 | 0.6 | 76.9 | 76.9 | 60.4 | 69.8 | 76.8 | 0.4 |
| 1.0 | 77.9 | 0.5 | 78.4 | 78.4 | 61.8 | 71.3 | 78.3 | 0.4 |
| 1.5 | 79.8 | 0.0 | 79.8 | 79.9 | 64.6 | 73.3 | 80.3 | 0.1 |
| 2.0 | 81.7 | 0.0 | 81.7 | 81.4 | 67.7 | 75.2 | 82.2 | 0.1 |
| 2.5 | 82.2 | 0.0 | 82.2 | 82.2 | 68.2 | 75.8 | 82.8 | 0.1 |
| 3.0 | 81.6 | 0.0 | 81.6 | 81.7 | 67.2 | 75.1 | 82.1 | 0.1 |
| 3.5 | 82.1 | 0.0 | 82.1 | 81.5 | 69.0 | 75.5 | 82.5 | 0.1 |
| 4.0 | 82.0 | 0.0 | 82.0 | 81.7 | 68.1 | 75.3 | 82.3 | 0.1 |
| 4.5 | 81.4 | 0.5 | 81.9 | 81.2 | 67.2 | 74.7 | 81.7 | 1.0 |
| 5.0 | 81.0 | 0.0 | 81.0 | 80.9 | 67.0 | 74.4 | 81.4 | 0.1 |
| 5.5 | 81.0 | 0.0 | 81.0 | 81.0 | 66.8 | 74.3 | 81.3 | 0.1 |
| 6.0 | 81.6 | 0.8 | 82.4 | 80.8 | 68.3 | 74.8 | 81.8 | 1.0 |
| 6.5 | 82.1 | 1.1 | 83.2 | 80.5 | 69.2 | 75.0 | 82.0 | 1.1 |
| 7.0 | 82.4 | 1.3 | 83.7 | 81.0 | 69.4 | 75.3 | 82.3 | 1.3 |
| 7.5 | 83.0 | 1.4 | 84.4 | 81.8 | 69.9 | 75.8 | 82.8 | 1.3 |
| 8.0 | 84.6 | 1.2 | 85.8 | 82.6 | 72.0 | 77.4 | 84.4 | 0.9 |
| 8.5 | 84.1 | 1.0 | 85.1 | 82.3 | 71.8 | 77.1 | 84.1 | 0.7 |
| 9.0 | 84.0 | 1.4 | 85.4 | 81.6 | 72.0 | 76.9 | 83.9 | 0.7 |
| 9.5 | 84.1 | 1.6 | 85.7 | 81.2 | 72.4 | 76.9 | 83.9 | 0.7 |
| 10.0 | 83.2 | 1.5 | 84.7 | 80.2 | 71.2 | 75.9 | 82.9 | 0.7 |
| 10.5 | 84.0 | 1.2 | 85.2 | 79.9 | 71.9 | 76.7 | 83.7 | 0.7 |
| 11.0 | 84.8 | 1.5 | 86.3 | 79.9 | 72.5 | 77.4 | 84.4 | 0.7 |
| 11.5 | 84.6 | 1.7 | 86.3 | 79.3 | 71.7 | 76.9 | 83.9 | 0.7 |
| 12.0 | 85.9 | 1.7 | 87.6 | 80.1 | 73.3 | 78.4 | 85.4 | 0.7 |
| 12.5 | 86.3 | 1.7 | 88.0 | 80.3 | 73.3 | 78.5 | 85.5 | 0.7 |
| 13.0 | 86.6 | 0.9 | 87.5 | 80.7 | 73.5 | 79.0 | 86.0 | 0.7 |
| 13.5 | 85.5 | 0.0 | 85.5 | 80.0 | 72.6 | 78.2 | 85.2 | 0.1 |
| 14.0 | 84.0 | 0.0 | 84.0 | 78.8 | 71.5 | 76.9 | 83.9 | 0.1 |
| 14.5 | 82.2 | 0.0 | 82.2 | 77.0 | 70.0 | 75.2 | 82.2 | 0.1 |
| 15.0 | 80.9 | 0.0 | 80.9 | 75.8 | 68.9 | 73.9 | 80.9 | 0.1 |
| 15.5 | 79.8 | 0.0 | 79.8 | 74.7 | 68.0 | 73.0 | 80.0 | 0.1 |
| 16.0 | 78.8 | 0.0 | 78.8 | 73.8 | 66.7 | 71.8 | 78.8 | 0.1 |
| 16.5 | 78.9 | 0.0 | 78.9 | 73.6 | 66.7 | 71.8 | 78.8 | 0.1 |
| 17.0 | 78.4 | 0.0 | 78.4 | 73.0 | 66.0 | 71.1 | 78.1 | 0.1 |
| 17.5 | 78.1 | 0.6 | 78.7 | 72.4 | 65.6 | 70.6 | 77.6 | 0.8 |
| 18.0 | 78.2 | 1.1 | 79.3 | 72.8 | 65.8 | 70.7 | 77.7 | 1.1 |
| 18.5 | 78.3 | 0.6 | 78.9 | 73.0 | 65.9 | 70.8 | 77.8 | 0.8 |
| 19.0 | 77.3 | 0.6 | 77.9 | 72.3 | 65.2 | 70.0 | 77.0 | 0.8 |
| 19.5 | 76.9 | 1.2 | 78.1 | 71.5 | 65.0 | 69.6 | 76.6 | 1.2 |
| 20.0 | 75.9 | 1.0 | 76.9 | 70.5 | 64.0 | 68.7 | 75.7 | 1.2 |
| 20.5 | 75.8 | 0.0 | 75.8 | 70.1 | 64.3 | 68.6 | 75.6 | 0.1 |

MAXIMUM VALUES IN BANDS, PNLC = 88.5

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 76.5 | 74.1 | 74.4 | 75.8 | 73.6 | 73.3 | 76.4 | 71.1 | 71.0 | 71.4 |
| 69.5 | 66.7 | 64.8 | 62.3 | 62.3 | 60.6 | 58.7 | 56.6 | 53.3 | 49.4 |
| 46.2 | 46.4 | 47.9 | 49.5 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 68.3 | 62.7 | 63.6 | 65.8 | 63.6 | 70.0 | 76.4 | 67.6 | 67.6 | 69.7 |
| 68.3 | 64.7 | 63.1 | 61.5 | 60.2 | 59.0 | 57.1 | 54.5 | 50.8 | 47.1 |
| 45.6 | 46.3 | 47.7 | 49.3 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M | B-140 |
|---|---|---|---|---|---|---|---|---|---|
| P.T. | 11.5 | 1.7 | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PNL | 13.0 | 86.6 | 19.5 | 95.4 | 20.5 | 95.5 | 87.7 | 84.9 |
| PNLT | 12.5 | 88.0 | 18.5 | 96.2 | 20.5 | 96.4 | 88.9 | 86.3 |
| A-LEV | 13.0 | 73.5 | 19.5 | 82.6 | 20.5 | 82.6 | 74.6 | 71.8 |
| N-LEV | 13.0 | 86.0 | 20.0 | 95.3 | 20.5 | 95.3 | 87.2 | 84.3 |

EPNL = 86.2

TSC 47G #19: 6 DEG APRCH , 60 MPH, 400 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 72.1 | 0.6 | 72.7 | 67.9 | 61.1 | 65.3 | 72.3 | 0.6 |
| 0.5 | 72.5 | 0.6 | 73.1 | 68.3 | 61.6 | 65.7 | 72.7 | 0.6 |
| 1.0 | 73.2 | 0.7 | 73.9 | 68.8 | 62.4 | 66.4 | 73.4 | 0.6 |
| 1.5 | 73.8 | 1.3 | 74.9 | 68.9 | 63.0 | 66.9 | 73.9 | 1.3 |
| 2.0 | 73.3 | 1.2 | 74.5 | 68.8 | 62.5 | 66.5 | 73.5 | 1.3 |
| 2.5 | 72.8 | 1.1 | 73.9 | 68.6 | 61.7 | 65.9 | 72.9 | 1.3 |
| 3.0 | 72.3 | 0.7 | 73.0 | 67.9 | 61.0 | 65.4 | 72.4 | 0.6 |
| 3.5 | 71.7 | 0.6 | 72.3 | 67.2 | 60.1 | 64.7 | 71.7 | 0.3 |
| 4.0 | 72.5 | 0.7 | 73.2 | 67.9 | 60.9 | 65.5 | 72.5 | 0.3 |
| 4.5 | 73.0 | 0.7 | 73.7 | 68.3 | 61.6 | 66.1 | 73.1 | 0.3 |
| 5.0 | 73.2 | 0.6 | 73.8 | 68.2 | 61.9 | 66.3 | 73.3 | 0.3 |
| 5.5 | 74.0 | 0.6 | 74.6 | 69.1 | 62.9 | 67.3 | 74.3 | 0.3 |
| 6.0 | 74.6 | 0.6 | 75.2 | 69.7 | 63.5 | 68.0 | 75.0 | 0.3 |
| 6.5 | 75.2 | 1.3 | 76.5 | 70.3 | 64.2 | 68.7 | 75.7 | 1.2 |
| 7.0 | 75.8 | 1.5 | 77.3 | 70.7 | 64.7 | 69.3 | 76.3 | 1.2 |
| 7.5 | 76.7 | 1.6 | 78.3 | 71.4 | 65.6 | 70.1 | 77.1 | 1.2 |
| 8.0 | 77.7 | 1.7 | 79.4 | 72.4 | 67.1 | 71.4 | 78.4 | 1.2 |
| 8.5 | 78.5 | 1.6 | 80.1 | 73.2 | 68.2 | 72.3 | 79.3 | 1.2 |
| 9.0 | 78.9 | 1.5 | 80.4 | 73.6 | 68.4 | 72.6 | 79.6 | 1.2 |
| 9.5 | 78.9 | 1.9 | 80.8 | 73.8 | 68.5 | 72.6 | 79.6 | 1.2 |
| 10.0 | 79.5 | 1.0 | 80.5 | 74.4 | 69.0 | 73.2 | 80.2 | 0.9 |
| 10.5 | 81.3 | 1.8 | 83.1 | 76.0 | 70.7 | 74.7 | 81.7 | 1.1 |
| 11.0 | 82.0 | 2.1 | 84.1 | 76.5 | 71.1 | 75.3 | 82.3 | 1.1 |
| 11.5 | 83.3 | 3.1 | 86.4 | 77.2 | 71.9 | 76.1 | 83.1 | 2.3 |
| 12.0 | 83.3 | 2.1 | 85.4 | 77.5 | 72.0 | 76.3 | 83.3 | 1.1 |
| 12.5 | 83.7 | 1.7 | 85.4 | 78.0 | 72.2 | 76.8 | 83.8 | 1.1 |
| 13.0 | 84.1 | 1.7 | 85.8 | 78.5 | 72.6 | 77.4 | 84.4 | 1.1 |
| 13.5 | 84.5 | 1.1 | 85.6 | 79.0 | 73.1 | 78.0 | 85.0 | 0.6 |
| 14.0 | 85.8 | 1.2 | 87.0 | 79.9 | 74.0 | 79.0 | 86.0 | 0.6 |
| 14.5 | 86.8 | 1.3 | 88.1 | 80.9 | 74.8 | 79.9 | 86.9 | 0.6 |
| 15.0 | 87.4 | 1.6 | 89.0 | 81.9 | 75.5 | 80.8 | 87.8 | 0.6 |
| 15.5 | 88.3 | 1.3 | 89.6 | 82.8 | 75.9 | 81.5 | 88.5 | 0.6 |
| 16.0 | 89.2 | 1.4 | 90.6 | 83.5 | 76.5 | 82.3 | 89.3 | 0.6 |
| 16.5 | 89.7 | 1.3 | 91.0 | 83.8 | 76.8 | 82.6 | 89.6 | 0.6 |
| 17.0 | 89.9 | 1.2 | 91.1 | 84.1 | 77.0 | 82.8 | 89.8 | 0.6 |
| 17.5 | 89.9 | 1.1 | 91.0 | 84.3 | 76.8 | 82.8 | 89.8 | 0.6 |
| 18.0 | 90.3 | 1.2 | 91.5 | 84.7 | 76.7 | 82.9 | 89.9 | 0.6 |
| 18.5 | 90.0 | 1.4 | 91.4 | 84.4 | 76.1 | 82.5 | 89.5 | 0.6 |
| 19.0 | 89.9 | 1.3 | 91.2 | 84.4 | 75.8 | 82.4 | 89.4 | 0.6 |
| 19.5 | 90.2 | 1.3 | 91.5 | 84.6 | 76.2 | 82.8 | 89.8 | 0.6 |
| 20.0 | 89.6 | 1.1 | 90.7 | 84.3 | 75.7 | 82.3 | 89.3 | 0.6 |
| 20.5 | 89.1 | 1.0 | 90.1 | 83.9 | 75.4 | 81.8 | 88.8 | 0.6 |
| 21.0 | 88.3 | 1.5 | 89.8 | 83.1 | 75.1 | 81.2 | 88.2 | 0.5 |
| 21.5 | 87.4 | 1.5 | 88.9 | 82.1 | 74.5 | 80.6 | 87.6 | 0.5 |
| 22.0 | 87.0 | 1.5 | 88.5 | 80.7 | 73.8 | 80.1 | 87.1 | 0.5 |
| 22.5 | 86.1 | 0.8 | 86.9 | 79.3 | 72.9 | 79.2 | 86.2 | 0.5 |
| 23.0 | 84.5 | 0.7 | 85.2 | 77.7 | 71.4 | 77.6 | 84.6 | 0.5 |
| 23.5 | 83.1 | 0.6 | 83.7 | 76.3 | 70.3 | 76.3 | 83.3 | 0.5 |
| 24.0 | 82.0 | 1.2 | 83.2 | 75.2 | 69.7 | 75.3 | 82.3 | 1.5 |
| 24.5 | 81.8 | 1.2 | 83.0 | 75.4 | 70.1 | 75.2 | 82.2 | 1.5 |
| 25.0 | 81.6 | 1.0 | 82.6 | 75.3 | 69.9 | 74.9 | 81.9 | 1.5 |
| 25.5 | 81.2 | 0.9 | 82.1 | 74.7 | 69.3 | 74.5 | 81.5 | 0.5 |
| 26.0 | 80.5 | 1.0 | 81.5 | 74.5 | 68.5 | 73.9 | 80.9 | 0.5 |
| 26.5 | 79.5 | 1.0 | 80.5 | 74.2 | 67.5 | 72.9 | 79.9 | 0.5 |
| 27.0 | 78.7 | 1.1 | 79.8 | 74.0 | 66.7 | 72.2 | 79.2 | 0.5 |
| 27.5 | 78.1 | 1.1 | 79.2 | 73.8 | 66.3 | 71.8 | 78.8 | 0.5 |
| 28.0 | 77.5 | 1.0 | 78.5 | 73.6 | 65.8 | 71.3 | 78.3 | 0.5 |
| 28.5 | 76.9 | 1.0 | 77.9 | 73.2 | 65.1 | 70.8 | 77.8 | 0.5 |
| 29.0 | 76.4 | 1.1 | 77.5 | 72.9 | 64.3 | 70.2 | 77.2 | 0.5 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 75.9 | 1.0 | 76.9 | 72.5 | 63.9 | 69.7 | 76.7 | 0.5 |
| 30.0 | 76.0 | 1.4 | 77.4 | 72.1 | 63.6 | 69.6 | 76.6 | 1.8 |
| 30.5 | 75.6 | 1.6 | 77.2 | 71.9 | 63.0 | 69.2 | 76.2 | 1.8 |
| 31.0 | 74.7 | 1.5 | 76.2 | 71.4 | 62.2 | 68.4 | 75.4 | 1.8 |

MAXIMUM VALUES IN BANDS, PNLC = 91.3

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 67.8 | 64.7 | 63.4 | 73.0 | 77.4 | 81.8 | 73.0 | 74.1 | 74.5 | 73.3 |
| 71.3 | 69.0 | 66.3 | 64.7 | 65.5 | 61.9 | 62.6 | 63.9 | 60.7 | 58.9 |
| 55.9 | 52.3 | 55.0 | 43.1 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 63.1 | 59.4 | 63.2 | 73.0 | 76.6 | 81.0 | 70.8 | 73.8 | 72.1 | 72.1 |
| 69.4 | 68.1 | 65.8 | 64.7 | 64.6 | 61.2 | 61.3 | 62.6 | 59.9 | 58.2 |
| 55.3 | 52.0 | 48.2 | 42.6 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 11.5 | 3.1 | | | | | | |
| PNL | 18.0 | 90.3 | 16.5 | 99.2 | 31.0 | 99.5 | 90.7 | 90.4 |
| PNLT | 18.0 | 91.5 | 16.0 | 100.5 | 31.0 | 100.8 | 91.8 | 91.6 |
| A-LEV | 17.0 | 77.0 | 19.5 | 86.5 | 31.0 | 86.7 | 78.1 | 77.1 |
| N-LEV | 18.0 | 89.9 | 17.0 | 99.1 | 31.0 | 99.4 | 90.4 | 90.0 |

EPNL = 90.5

TSC 47G #29: FLYOVER, 68 MPH, 500 FT.

| T | PNL | P. T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 73.9 | 1.3 | 75.2 | 70.0 | 61.4 | 66.9 | 73.9 | 0.3 |
| 0.5 | 74.6 | 1.2 | 75.8 | 70.4 | 62.3 | 67.8 | 74.8 | 0.3 |
| 1.0 | 75.2 | 1.2 | 76.4 | 70.8 | 63.3 | 68.7 | 75.7 | 0.3 |
| 1.5 | 75.9 | 1.2 | 77.1 | 71.1 | 63.9 | 69.3 | 76.3 | 0.3 |
| 2.0 | 76.1 | 1.2 | 77.3 | 71.0 | 64.1 | 69.5 | 76.5 | 0.3 |
| 2.5 | 77.8 | 1.2 | 79.0 | 71.0 | 65.0 | 71.0 | 78.0 | 0.3 |
| 3.0 | 78.8 | 1.1 | 79.9 | 71.6 | 65.7 | 71.9 | 78.9 | 0.3 |
| 3.5 | 80.0 | 1.3 | 81.3 | 72.7 | 66.6 | 73.1 | 80.1 | 0.6 |
| 4.0 | 80.4 | 1.3 | 81.7 | 73.7 | 67.0 | 73.5 | 80.5 | 0.6 |
| 4.5 | 81.3 | 1.6 | 82.9 | 74.8 | 68.0 | 74.5 | 81.5 | 0.6 |
| 5.0 | 82.2 | 1.9 | 84.1 | 75.9 | 69.2 | 75.6 | 82.6 | 0.6 |
| 5.5 | 83.0 | 2.2 | 85.2 | 76.6 | 70.0 | 76.4 | 83.4 | 0.6 |
| 6.0 | 85.5 | 2.6 | 88.1 | 78.3 | 72.4 | 78.9 | 85.9 | 0.6 |
| 6.5 | 86.7 | 2.8 | 89.5 | 79.2 | 73.5 | 80.1 | 87.1 | 0.6 |
| 7.0 | 88.1 | 3.1 | 91.2 | 80.1 | 74.9 | 81.5 | 88.5 | 0.6 |
| 7.5 | 88.6 | 3.2 | 91.8 | 80.5 | 75.8 | 82.0 | 89.0 | 0.6 |
| 8.0 | 88.6 | 3.3 | 91.9 | 80.7 | 75.9 | 82.2 | 89.2 | 0.6 |
| 8.5 | 88.8 | 3.3 | 92.1 | 81.1 | 76.0 | 82.4 | 89.4 | 0.6 |
| 9.0 | 88.7 | 3.3 | 92.0 | 81.2 | 76.1 | 82.4 | 89.4 | 0.6 |
| 9.5 | 89.3 | 3.3 | 92.6 | 81.8 | 76.6 | 83.0 | 90.0 | 0.6 |
| 10.0 | 89.4 | 3.3 | 92.7 | 82.3 | 76.8 | 83.1 | 90.1 | 0.6 |
| 10.5 | 90.1 | 3.3 | 93.4 | 82.9 | 77.2 | 83.8 | 90.8 | 0.6 |
| 11.0 | 90.9 | 3.3 | 94.2 | 83.5 | 77.9 | 84.5 | 91.5 | 0.6 |
| 11.5 | 90.7 | 3.3 | 94.0 | 83.2 | 77.7 | 84.3 | 91.3 | 0.6 |
| 12.0 | 90.0 | 3.0 | 93.0 | 82.7 | 76.9 | 83.5 | 90.5 | 0.6 |
| 12.5 | 90.0 | 2.8 | 92.8 | 82.2 | 77.1 | 83.5 | 90.5 | 0.5 |
| 13.0 | 90.3 | 2.6 | 92.9 | 81.9 | 77.1 | 83.6 | 90.6 | 0.5 |
| 13.5 | 90.3 | 2.6 | 92.9 | 81.6 | 77.5 | 83.8 | 90.8 | 0.5 |
| 14.0 | 89.5 | 1.6 | 91.1 | 31.0 | 76.9 | 83.0 | 90.0 | 0.5 |
| 14.5 | 88.8 | 1.6 | 90.4 | 80.2 | 76.3 | 82.3 | 89.3 | 0.5 |
| 15.0 | 88.9 | 1.5 | 90.4 | 80.0 | 76.3 | 82.3 | 89.3 | 0.5 |
| 15.5 | 87.5 | 1.3 | 88.8 | 79.2 | 75.4 | 81.0 | 88.0 | 0.5 |
| 16.0 | 86.6 | 1.2 | 87.8 | 78.6 | 74.8 | 80.2 | 87.2 | 0.5 |
| 16.5 | 86.2 | 1.1 | 87.3 | 78.7 | 74.9 | 79.9 | 86.9 | 0.5 |
| 17.0 | 85.8 | 1.0 | 86.8 | 78.3 | 74.6 | 79.7 | 86.7 | 0.7 |
| 17.5 | 85.2 | 1.0 | 86.2 | 77.8 | 74.3 | 79.2 | 86.2 | 0.2 |
| 18.0 | 85.1 | 1.0 | 86.1 | 77.3 | 73.9 | 79.0 | 86.0 | 0.2 |
| 18.5 | 84.6 | 0.9 | 85.5 | 76.7 | 73.3 | 78.5 | 85.5 | 0.2 |
| 19.0 | 83.3 | 0.9 | 84.2 | 75.8 | 72.0 | 77.2 | 84.2 | 0.2 |
| 19.5 | 82.0 | 1.0 | 83.0 | 75.0 | 70.8 | 75.9 | 82.9 | 0.2 |
| 20.0 | 81.8 | 1.2 | 83.0 | 75.0 | 71.0 | 75.8 | 82.8 | 0.2 |
| 20.5 | 82.4 | 1.3 | 83.7 | 75.7 | 71.5 | 76.1 | 83.1 | 0.2 |
| 21.0 | 82.7 | 1.2 | 83.9 | 76.0 | 71.6 | 76.2 | 83.2 | 0.2 |
| 21.5 | 83.4 | 1.2 | 84.6 | 76.5 | 72.7 | 77.1 | 84.1 | 0.2 |
| 22.0 | 84.5 | 1.4 | 85.9 | 77.1 | 74.2 | 78.6 | 85.6 | 0.2 |
| 22.5 | 83.9 | 1.3 | 85.2 | 76.6 | 73.6 | 77.9 | 84.9 | 0.2 |
| 23.0 | 84.3 | 1.4 | 85.7 | 76.7 | 74.0 | 78.6 | 85.6 | 0.5 |
| 23.5 | 83.7 | 1.4 | 85.1 | 76.2 | 73.6 | 78.0 | 85.0 | 0.5 |
| 24.0 | 82.4 | 1.4 | 83.8 | 75.3 | 72.4 | 76.6 | 83.6 | 0.5 |
| 24.5 | 81.4 | 1.4 | 82.8 | 74.5 | 71.4 | 75.8 | 82.8 | 0.5 |
| 25.0 | 80.8 | 1.4 | 82.2 | 73.8 | 70.3 | 74.9 | 81.9 | 0.5 |
| 25.5 | 80.4 | 1.4 | 81.8 | 73.4 | 69.8 | 74.5 | 81.5 | 0.5 |
| 26.0 | 81.1 | 1.4 | 82.5 | 73.7 | 70.3 | 75.1 | 82.1 | 1.1 |
| 26.5 | 80.1 | 1.3 | 81.4 | 73.3 | 69.6 | 74.3 | 81.3 | 0.5 |
| 27.0 | 79.5 | 1.4 | 80.9 | 72.9 | 68.7 | 73.3 | 80.3 | 1.1 |
| 27.5 | 79.1 | 1.3 | 80.4 | 72.6 | 68.2 | 72.8 | 79.8 | 0.5 |
| 28.0 | 79.2 | 1.3 | 80.5 | 72.6 | 68.9 | 73.1 | 80.1 | 0.5 |
| 28.5 | 79.5 | 1.2 | 80.7 | 72.8 | 69.5 | 73.6 | 80.6 | 0.2 |
| 29.0 | 79.2 | 1.2 | 80.4 | 72.6 | 69.1 | 73.2 | 80.2 | 0.2 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 78.2 | 1.2 | 79.4 | 71.8 | 68.0 | 72.0 | 79.0 | 0.2 |
| 30.0 | 77.4 | 1.1 | 78.5 | 71.2 | 67.1 | 71.0 | 78.0 | 0.5 |
| 30.5 | 76.9 | 1.2 | 78.1 | 70.9 | 66.6 | 70.3 | 77.3 | 0.7 |
| 31.0 | 76.7 | 1.3 | 78.0 | 70.7 | 66.5 | 70.2 | 77.2 | 0.7 |
| 31.5 | 75.9 | 1.3 | 77.2 | 70.3 | 66.1 | 69.7 | 76.7 | 0.7 |
| 32.0 | 74.8 | 1.3 | 76.1 | 69.2 | 64.8 | 68.4 | 75.4 | 1.5 |
| 32.5 | 74.2 | 1.5 | 75.7 | 68.4 | 64.5 | 68.2 | 75.2 | 1.5 |

MAXIMUM VALUES IN BANDS, PNLC = 91.7

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 67.7 | 64.1 | 65.9 | 57.6 | 75.1 | 80.3 | 72.8 | 69.7 | 73.6 | 72.4 |
| 69.0 | 67.1 | 67.5 | 66.8 | 68.3 | 66.4 | 66.3 | 66.8 | 64.9 | 63.1 |
| 60.2 | 56.7 | 51.9 | 45.9 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 57.8 | 55.5 | 53.8 | 56.3 | 74.4 | 80.3 | 60.5 | 66.9 | 73.1 | 71.9 |
| 69.0 | 66.8 | 67.0 | 66.2 | 67.3 | 65.8 | 65.9 | 66.8 | 64.9 | 63.1 |
| 60.2 | 56.5 | 51.7 | 45.7 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 8.0 | 3.3 | | | | | | |
| PNL | 11.0 | 90.9 | 21.0 | 100.4 | 32.5 | 100.7 | 92.4 | 91.2 |
| PNLT | 11.0 | 94.2 | 14.0 | 102.5 | 32.5 | 103.1 | 93.9 | 94.5 |
| A-LEV | 11.0 | 77.9 | 26.0 | 88.3 | 32.5 | 88.5 | 80.3 | 78.2 |
| N-LEV | 11.0 | 91.5 | 21.0 | 101.0 | 32.5 | 101.3 | 93.0 | 91.8 |

EPNL = 92.5

TSC 470 #30: FLYOVER, 75 MPH, 500 FT.

| T | PNL | P.T. | PNLT | DA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 69.8 | 1.7 | 71.5 | 66.9 | 57.7 | 63.3 | 70.3 | 1.2 |
| 0.5 | 70.7 | 1.8 | 72.5 | 67.8 | 58.3 | 64.0 | 71.0 | 1.2 |
| 1.0 | 71.6 | 1.0 | 72.6 | 67.9 | 59.1 | 64.7 | 71.7 | 0.9 |
| 1.5 | 72.6 | 1.2 | 73.8 | 68.7 | 60.0 | 65.5 | 72.5 | 0.9 |
| 2.0 | 73.8 | 1.3 | 75.1 | 70.0 | 61.0 | 66.8 | 73.8 | 1.1 |
| 2.5 | 75.0 | 1.3 | 76.3 | 71.0 | 62.2 | 68.2 | 75.2 | 1.1 |
| 3.0 | 76.4 | 1.4 | 77.8 | 71.9 | 63.3 | 69.7 | 76.7 | 1.1 |
| 3.5 | 78.3 | 1.5 | 79.8 | 72.8 | 64.7 | 71.4 | 78.4 | 0.6 |
| 4.0 | 80.4 | 1.9 | 82.3 | 74.3 | 67.1 | 73.7 | 80.7 | 0.6 |
| 4.5 | 81.9 | 2.2 | 84.1 | 75.6 | 68.6 | 75.3 | 82.3 | 0.6 |
| 5.0 | 83.2 | 2.6 | 85.8 | 77.2 | 69.8 | 76.5 | 83.5 | 0.6 |
| 5.5 | 84.4 | 2.9 | 87.3 | 78.4 | 71.0 | 77.5 | 84.5 | 0.6 |
| 6.0 | 86.1 | 3.2 | 89.3 | 80.1 | 72.4 | 79.1 | 86.1 | 0.6 |
| 6.5 | 87.2 | 3.3 | 90.5 | 81.0 | 73.5 | 80.5 | 87.5 | 0.6 |
| 7.0 | 87.6 | 3.3 | 90.9 | 81.4 | 74.2 | 81.0 | 88.0 | 0.6 |
| 7.5 | 87.9 | 3.3 | 91.2 | 81.8 | 74.8 | 81.3 | 88.3 | 0.6 |
| 8.0 | 88.0 | 3.3 | 91.3 | 81.8 | 75.1 | 81.5 | 88.5 | 0.5 |
| 8.5 | 88.5 | 3.3 | 91.8 | 82.1 | 75.4 | 82.2 | 89.2 | 0.6 |
| 9.0 | 88.3 | 1.8 | 90.1 | 82.2 | 75.1 | 81.9 | 88.9 | 0.5 |
| 9.5 | 88.4 | 2.0 | 90.4 | 81.6 | 74.9 | 81.8 | 88.8 | 0.5 |
| 10.0 | 88.3 | 2.2 | 90.5 | 81.1 | 74.9 | 81.7 | 88.7 | 0.5 |
| 10.5 | 88.0 | 2.3 | 90.3 | 80.5 | 74.9 | 81.4 | 88.4 | 0.5 |
| 11.0 | 86.7 | 2.4 | 89.1 | 79.4 | 73.8 | 80.1 | 87.1 | 0.5 |
| 11.5 | 85.8 | 2.3 | 88.1 | 78.5 | 73.8 | 79.4 | 86.4 | 0.5 |
| 12.0 | 84.8 | 2.3 | 87.1 | 77.1 | 72.6 | 78.2 | 85.2 | 0.5 |
| 12.5 | 83.3 | 2.1 | 85.4 | 75.8 | 71.4 | 76.8 | 83.8 | 0.5 |
| 13.0 | 82.1 | 1.9 | 84.0 | 74.7 | 70.3 | 75.6 | 82.6 | 0.5 |
| 13.5 | 82.4 | 1.5 | 83.9 | 74.2 | 70.3 | 75.8 | 82.8 | 0.5 |
| 14.0 | 81.6 | 1.3 | 82.9 | 74.1 | 69.8 | 75.2 | 82.2 | 0.5 |
| 14.5 | 80.7 | 1.2 | 81.9 | 73.5 | 69.6 | 74.5 | 81.5 | 0.8 |

MAXIMUM VALUES IN BANDS. PNLC = 89.5

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 66.7 | 64.1 | 62.5 | 58.1 | 78.4 | 79.2 | 64.1 | 69.3 | 70.4 | 68.6 |
| 66.5 | 65.4 | 63.4 | 65.5 | 67.4 | 62.3 | 63.3 | 64.3 | 62.6 | 61.4 |
| 58.6 | 54.7 | 51.2 | 45.2 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 59.8 | 54.6 | 54.7 | 57.6 | 76.9 | 77.9 | 57.4 | 68.9 | 69.5 | 68.6 |
| 66.4 | 65.4 | 63.0 | 62.7 | 66.3 | 61.0 | 62.1 | 63.7 | 62.6 | 61.4 |
| 58.6 | 54.3 | 50.6 | 44.7 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 6.5 | 3.3 | | | | | | |
| PNL | 8.5 | 88.5 | 11.0 | 96.4 | 14.5 | 96.5 | 87.2 | 85.3 |
| PNLT | 8.5 | 91.8 | 11.0 | 99.1 | 14.5 | 99.1 | 90.5 | 88.6 |
| A-LEV | 8.5 | 75.4 | 11.0 | 83.4 | 14.5 | 83.5 | 74.1 | 72.2 |
| N-LEV | 8.5 | 89.2 | 11.0 | 96.9 | 14.5 | 96.9 | 87.9 | 86.0 |

LPNL = 89.1

TSC 47G #41: 9 DEG. APRCH., 60 MPH, 400 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 72.4 | 1.6 | 74.0 | 69.7 | 60.0 | 65.9 | 72.9 | 1.1 |
| 0.5 | 73.6 | 1.9 | 75.5 | 70.7 | 61.0 | 67.0 | 74.0 | 1.1 |
| 1.0 | 74.9 | 2.1 | 77.0 | 71.8 | 62.3 | 68.1 | 75.1 | 1.1 |
| 1.5 | 76.6 | 1.4 | 78.0 | 72.6 | 64.2 | 69.6 | 76.6 | 1.1 |
| 2.0 | 76.7 | 0.6 | 77.3 | 72.6 | 64.4 | 69.9 | 76.9 | 0.6 |
| 2.5 | 76.3 | 0.8 | 77.1 | 72.7 | 63.9 | 69.7 | 76.7 | 0.6 |
| 3.0 | 76.3 | 1.1 | 77.4 | 72.3 | 63.5 | 69.6 | 76.6 | 1.8 |
| 3.5 | 76.7 | 1.2 | 77.9 | 72.4 | 63.7 | 70.0 | 77.0 | 0.6 |
| 4.0 | 77.1 | 1.3 | 78.4 | 72.8 | 64.3 | 70.5 | 77.5 | 0.6 |
| 4.5 | 77.9 | 1.5 | 79.4 | 73.1 | 65.2 | 71.5 | 78.5 | 0.6 |
| 5.0 | 79.2 | 1.6 | 80.8 | 73.7 | 66.3 | 72.6 | 79.6 | 0.6 |
| 5.5 | 79.4 | 1.6 | 81.0 | 74.0 | 66.4 | 72.7 | 79.7 | 0.6 |
| 6.0 | 80.4 | 1.8 | 82.2 | 74.8 | 67.3 | 73.7 | 80.7 | 0.6 |
| 6.5 | 82.0 | 1.8 | 83.8 | 76.4 | 69.0 | 75.4 | 82.4 | 0.6 |
| 7.0 | 84.0 | 1.4 | 85.4 | 78.7 | 71.3 | 77.3 | 84.3 | 0.6 |
| 7.5 | 86.4 | 1.2 | 87.6 | 80.8 | 74.1 | 79.6 | 86.6 | 0.6 |
| 8.0 | 87.8 | 1.2 | 89.0 | 82.2 | 75.2 | 81.0 | 88.0 | 0.6 |
| 8.5 | 88.7 | 1.3 | 90.0 | 83.1 | 76.1 | 82.0 | 89.0 | 0.6 |
| 9.0 | 88.5 | 1.3 | 89.8 | 82.7 | 75.7 | 81.8 | 88.8 | 0.6 |
| 9.5 | 87.6 | 1.5 | 89.1 | 81.6 | 74.7 | 80.9 | 87.9 | 0.6 |
| 10.0 | 87.1 | 1.6 | 88.7 | 81.0 | 74.1 | 80.3 | 87.3 | 0.6 |
| 10.5 | 86.8 | 1.8 | 88.6 | 80.4 | 73.7 | 80.1 | 87.1 | 0.6 |
| 11.0 | 86.7 | 1.8 | 88.5 | 80.1 | 73.5 | 80.0 | 87.0 | 0.6 |
| 11.5 | 86.9 | 2.5 | 89.4 | 80.3 | 73.6 | 79.9 | 86.9 | 0.6 |
| 12.0 | 86.8 | 2.5 | 89.3 | 80.4 | 73.3 | 79.8 | 86.8 | 0.6 |
| 12.5 | 86.7 | 2.5 | 89.2 | 80.2 | 73.2 | 79.7 | 86.7 | 0.6 |
| 13.0 | 86.4 | 2.4 | 88.8 | 80.2 | 73.0 | 79.5 | 86.5 | 0.6 |
| 13.5 | 86.0 | 2.2 | 88.2 | 80.0 | 72.6 | 79.0 | 86.0 | 0.6 |
| 14.0 | 85.4 | 2.0 | 87.4 | 79.5 | 72.1 | 78.5 | 85.5 | 0.6 |
| 14.5 | 84.7 | 1.9 | 86.6 | 79.1 | 71.5 | 77.8 | 84.8 | 0.5 |
| 15.0 | 83.7 | 1.9 | 85.6 | 78.2 | 70.8 | 77.2 | 84.2 | 0.5 |
| 15.5 | 84.1 | 1.1 | 85.2 | 77.6 | 71.0 | 77.3 | 84.3 | 0.5 |
| 16.0 | 83.5 | 0.9 | 84.4 | 76.6 | 70.7 | 76.7 | 83.7 | 0.5 |
| 16.5 | 83.0 | 0.6 | 83.6 | 75.8 | 70.2 | 76.2 | 83.2 | 0.5 |
| 17.0 | 81.9 | 0.0 | 81.9 | 75.1 | 69.4 | 75.1 | 82.1 | 0.1 |
| 17.5 | 81.1 | 1.5 | 82.6 | 74.4 | 69.3 | 74.5 | 81.5 | 1.5 |
| 18.0 | 80.9 | 1.6 | 82.5 | 74.1 | 69.3 | 74.3 | 81.3 | 1.5 |
| 18.5 | 80.2 | 1.0 | 81.2 | 73.5 | 68.7 | 73.5 | 80.5 | 1.5 |
| 19.0 | 79.0 | 1.0 | 80.0 | 73.1 | 67.9 | 72.6 | 79.6 | 1.5 |
| 19.5 | 78.2 | 1.3 | 79.5 | 72.6 | 66.9 | 71.5 | 78.5 | 1.5 |
| 20.0 | 77.8 | 1.4 | 79.2 | 72.5 | 66.3 | 71.1 | 78.1 | 1.5 |
| 20.5 | 77.6 | 1.0 | 78.6 | 72.4 | 65.9 | 71.1 | 78.1 | 0.5 |
| 21.0 | 78.2 | 0.9 | 79.1 | 72.3 | 66.0 | 71.4 | 78.4 | 0.5 |
| 21.5 | 77.4 | 1.0 | 78.4 | 72.2 | 65.7 | 70.9 | 77.9 | 0.5 |
| 22.0 | 76.8 | 1.0 | 77.8 | 72.0 | 65.1 | 70.3 | 77.3 | 0.5 |
| 22.5 | 75.5 | 1.6 | 77.1 | 71.3 | 63.9 | 69.2 | 76.2 | 1.5 |
| 23.0 | 74.2 | 1.3 | 75.5 | 70.7 | 62.5 | 68.1 | 75.1 | 1.5 |
| 23.5 | 73.8 | 1.4 | 75.2 | 70.5 | 62.1 | 67.8 | 74.8 | 1.5 |
| 24.0 | 74.3 | 1.4 | 75.7 | 70.1 | 62.3 | 68.0 | 75.0 | 1.5 |
| 24.5 | 74.2 | 1.0 | 75.2 | 69.7 | 62.0 | 67.7 | 74.7 | 0.5 |
| 25.0 | 73.7 | 1.0 | 74.7 | 69.6 | 61.5 | 67.3 | 74.3 | 0.5 |

MAXIMUM VALUES IN BANDS, PNLC = 89.2

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 66.4 | 63.7 | 63.4 | 67.0 | 72.5 | 78.8 | 70.8 | 73.8 | 75.4 | 69.4 |
| 69.6 | 66.4 | 64.7 | 63.5 | 64.5 | 61.8 | 61.8 | 63.1 | 59.6 | 57.6 |
| 55.5 | 52.1 | 47.8 | 40.8 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 65.7 | 60.3 | 56.3 | 65.5 | 71.9 | 78.8 | 70.5 | 73.8 | 75.4 | **69.4** |
| 69.4 | 66.0 | 64.7 | 63.5 | 63.0 | 61.6 | 61.7 | 62.2 | 58.6 | **56.6** |
| 53.1 | 48.7 | 44.4 | 38.4 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 11.5 | 2.5 | | | | | | |
| PNL | 8.5 | 88.7 | 15.0 | 96.9 | 25.0 | 97.2 | 88.7 | 87.9 |
| PNLT | 8.5 | 90.0 | 14.5 | 98.5 | 25.0 | 98.9 | 89.9 | 89.2 |
| A-LEV | 8.5 | 76.1 | 16.0 | 84.0 | 25.0 | 84.4 | 76.4 | 75.3 |
| N-LEV | 8.5 | 89.0 | 15.0 | 97.1 | 25.0 | 97.4 | 89.0 | 88.2 |

EPNL = 89.5

TSC 500C #58: FLYOVER, 70 MPH., 500 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 75.2 | 2.3 | 77.5 | 70.8 | 64.1 | 68.0 | 75.0 | 1.2 |
| 0.5 | 76.3 | 2.3 | 78.6 | 71.3 | 65.3 | 69.0 | 76.0 | 1.2 |
| 1.0 | 77.2 | 1.6 | 78.8 | 72.2 | 66.5 | 69.9 | 76.9 | 0.8 |
| 1.5 | 78.5 | 3.1 | 81.6 | 73.2 | 68.4 | 71.6 | 78.6 | 1.1 |
| 2.0 | 79.5 | 1.5 | 81.0 | 73.9 | 69.6 | 72.7 | 79.7 | 1.1 |
| 2.5 | 79.5 | 1.5 | 81.0 | 73.7 | 69.3 | 72.5 | 79.5 | 1.1 |
| 3.0 | 79.3 | 1.5 | 80.8 | 73.8 | 68.9 | 72.3 | 79.3 | 0.5 |
| 3.5 | 79.5 | 1.6 | 81.1 | 73.9 | 68.6 | 72.3 | 79.3 | 1.1 |
| 4.0 | 79.9 | 1.7 | 81.6 | 74.5 | 69.1 | 73.0 | 80.0 | 1.1 |
| 4.5 | 79.4 | 1.7 | 81.1 | 74.1 | 68.3 | 72.3 | 79.3 | 1.1 |
| 5.0 | 79.0 | 1.6 | 80.6 | 74.0 | 67.7 | 72.0 | 79.0 | 1.1 |
| 5.5 | 78.7 | 1.5 | 80.2 | 74.3 | 67.6 | 72.2 | 79.2 | 0.5 |
| 6.0 | 79.6 | 1.6 | 81.2 | 74.7 | 68.9 | 73.0 | 80.0 | 0.5 |
| 6.5 | 82.9 | 1.7 | 84.6 | 77.4 | 73.4 | 76.5 | 83.5 | 0.5 |
| 7.0 | 81.8 | 1.6 | 83.4 | 76.8 | 71.9 | 75.4 | 82.4 | 0.5 |
| 7.5 | 82.3 | 1.4 | 83.7 | 77.1 | 71.3 | 75.5 | 82.5 | 0.5 |
| 8.0 | 82.2 | 1.6 | 83.8 | 77.0 | 70.6 | 75.2 | 82.2 | 1.6 |
| 8.5 | 82.2 | 1.9 | 84.1 | 76.9 | 70.1 | 74.9 | 81.9 | 1.6 |
| 9.0 | 82.0 | 1.5 | 83.5 | 76.3 | 69.7 | 74.5 | 81.5 | 0.8 |
| 9.5 | 81.7 | 1.6 | 83.3 | 76.0 | 69.2 | 74.0 | 81.0 | 0.8 |
| 10.0 | 82.9 | 2.0 | 84.9 | 77.2 | 70.2 | 75.1 | 82.1 | 0.8 |
| 10.5 | 83.8 | 1.9 | 85.7 | 77.9 | 70.9 | 76.0 | 83.0 | 0.8 |
| 11.0 | 84.3 | 1.3 | 85.6 | 78.5 | 71.7 | 76.7 | 83.7 | 0.8 |
| 11.5 | 84.4 | 1.0 | 85.4 | 79.1 | 72.4 | 77.4 | 84.4 | 0.2 |
| 12.0 | 85.2 | 1.0 | 86.2 | 79.6 | 72.8 | 77.8 | 84.8 | 0.2 |
| 12.5 | 86.2 | 1.2 | 87.4 | 80.3 | 73.6 | 78.6 | 85.6 | 0.4 |
| 13.0 | 86.6 | 1.3 | 87.9 | 80.7 | 74.3 | 79.1 | 86.1 | 0.4 |
| 13.5 | 86.9 | 1.6 | 88.5 | 81.1 | 74.8 | 79.6 | 86.6 | 0.4 |
| 14.0 | 87.4 | 1.6 | 89.0 | 81.4 | 75.5 | 80.2 | 87.2 | 0.4 |
| 14.5 | 86.8 | 1.6 | 88.4 | 80.9 | 75.0 | 79.7 | 86.7 | 0.4 |
| 15.0 | 86.5 | 1.4 | 87.9 | 80.5 | 74.6 | 79.2 | 86.2 | 0.4 |
| 15.5 | 85.9 | 1.3 | 87.2 | 79.9 | 73.8 | 78.5 | 85.5 | 0.4 |
| 16.0 | 85.7 | 1.5 | 87.2 | 79.5 | 73.3 | 78.1 | 85.1 | 0.9 |
| 16.5 | 85.3 | 1.4 | 86.7 | 79.2 | 73.1 | 77.8 | 84.8 | 0.9 |
| 17.0 | 84.4 | 1.4 | 85.8 | 78.3 | 72.4 | 77.0 | 84.0 | 0.9 |
| 17.5 | 83.0 | 1.4 | 84.4 | 77.4 | 71.3 | 75.9 | 82.9 | 0.7 |
| 18.0 | 81.5 | 1.4 | 82.9 | 76.4 | 70.0 | 74.7 | 81.7 | 0.7 |
| 18.5 | 80.3 | 1.4 | 81.7 | 75.3 | 68.5 | 73.3 | 80.3 | 0.7 |
| 19.0 | 79.0 | 1.3 | 80.3 | 74.0 | 66.8 | 71.8 | 78.8 | 0.7 |
| 19.5 | 77.8 | 1.2 | 79.0 | 73.0 | 65.5 | 70.6 | 77.6 | 0.7 |
| 20.0 | 76.6 | 1.0 | 77.6 | 72.0 | 64.3 | 69.5 | 76.5 | 0.7 |
| 20.5 | 76.8 | 0.9 | 77.7 | 72.0 | 64.8 | 69.7 | 76.7 | 0.7 |
| 21.0 | 76.5 | 0.9 | 77.4 | 71.5 | 64.1 | 69.1 | 76.1 | 0.9 |
| 21.5 | 80.9 | 6.5 | 87.4 | 74.7 | 71.9 | 73.6 | 80.6 | 1.3 |
| 22.0 | 75.5 | 0.8 | 76.3 | 71.2 | 62.3 | 67.9 | 74.9 | 0.9 |
| 22.5 | 74.7 | 0.7 | 75.4 | 70.5 | 61.4 | 67.1 | 74.1 | 0.4 |
| 23.0 | 74.2 | 0.7 | 74.9 | 70.4 | 61.0 | 66.9 | 73.9 | 0.4 |
| 23.5 | 73.8 | 0.6 | 74.4 | 70.2 | 60.6 | 66.6 | 73.6 | 0.4 |
| 24.0 | 73.2 | 0.5 | 73.7 | 69.3 | 60.0 | 66.0 | 73.0 | 0.4 |

MAXIMUM VALUES IN BANDS, PNLC = 88.5

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 62.5 | 67.5 | 65.0 | 74.3 | 71.4 | 67.5 | 71.2 | 74.3 | 75.9 | 73.5 |
| 69.0 | 69.6 | 72.1 | 63.8 | 61.6 | 60.1 | 58.3 | 56.3 | 53.1 | 48.8 |
| 46.5 | 44.7 | 45.3 | 46.6 | | | | | | |



SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 58.7 | 60.9 | 58.0 | 74.3 | 70.9 | 66.1 | 65.8 | 64.8 | 75.9 | 73.5 |
| 69.0 | 68.0 | 66.2 | 62.8 | 61.6 | 59.8 | 58.1 | 56.3 | 53.1 | 48.8 |
| 46.3 | 44.7 | 44.9 | 46.0 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 21.5 | 6.5 | | | | | | |
| PNL | 14.0 | 87.4 | 19.0 | 96.1 | 24.0 | 96.3 | 88.4 | 86.4 |
| PNLT | 14.0 | 89.0 | 18.5 | 97.6 | 24.0 | 98.0 | 89.9 | 88.0 |
| A-LEV | 14.0 | 75.5 | 19.0 | 84.3 | 24.0 | 84.6 | 76.5 | 74.5 |
| N-LEV | 14.0 | 87.2 | 19.0 | 95.9 | 24.0 | 96.1 | 88.2 | 86.2 |

EPNL = 87.6

TSC 500C #65: 6 DEG. APRCH., 69 MPH, 400 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 77.1 | 1.5 | 78.6 | 72.5 | 65.4 | 69.7 | 76.7 | 0.5 |
| 0.5 | 78.1 | 1.6 | 79.7 | 73.4 | 66.7 | 71.0 | 78.0 | 0.5 |
| 1.0 | 78.6 | 1.6 | 80.2 | 73.8 | 67.2 | 71.6 | 78.6 | 0.5 |
| 1.5 | 78.4 | 1.7 | 80.1 | 73.6 | 66.8 | 71.3 | 78.3 | 0.5 |
| 2.0 | 77.6 | 1.8 | 79.4 | 73.2 | 65.9 | 70.7 | 77.7 | 0.5 |
| 2.5 | 77.7 | 1.7 | 79.4 | 73.3 | 65.8 | 70.8 | 77.8 | 0.5 |
| 3.0 | 79.3 | 1.8 | 81.1 | 74.4 | 67.5 | 72.4 | 79.4 | 0.5 |
| 3.5 | 81.1 | 1.3 | 82.4 | 75.9 | 69.9 | 74.3 | 81.3 | 0.5 |
| 4.0 | 81.3 | 1.7 | 83.0 | 76.0 | 70.8 | 74.7 | 81.7 | 0.5 |
| 4.5 | 81.1 | 1.7 | 82.8 | 75.8 | 71.2 | 74.6 | 81.6 | 0.5 |
| 5.0 | 80.6 | 1.9 | 82.5 | 75.1 | 70.3 | 73.8 | 80.8 | 0.5 |
| 5.5 | 79.8 | 2.0 | 81.8 | 74.6 | 69.1 | 72.9 | 79.9 | 0.5 |
| 6.0 | 79.7 | 1.8 | 81.5 | 74.3 | 68.6 | 72.6 | 79.6 | 0.5 |
| 6.5 | 80.2 | 1.8 | 82.0 | 74.6 | 69.1 | 73.0 | 80.0 | 0.5 |
| 7.0 | 81.8 | 1.4 | 83.2 | 76.3 | 71.5 | 75.0 | 82.0 | 0.5 |
| 7.5 | 83.7 | 1.8 | 85.5 | 77.9 | 72.6 | 76.5 | 83.5 | 0.8 |
| 8.0 | 84.2 | 2.0 | 86.2 | 78.4 | 72.6 | 76.9 | 83.9 | 0.8 |
| 8.5 | 84.0 | 2.1 | 86.1 | 77.9 | 72.4 | 76.6 | 83.6 | 0.8 |
| 9.0 | 84.4 | 2.3 | 86.7 | 78.3 | 73.2 | 77.3 | 84.3 | 0.8 |
| 9.5 | 84.7 | 2.3 | 87.0 | 78.7 | 73.8 | 77.8 | 84.8 | 0.8 |
| 10.0 | 84.8 | 2.2 | 87.0 | 78.8 | 73.2 | 77.6 | 84.6 | 0.8 |
| 10.5 | 85.0 | 1.7 | 86.7 | 79.1 | 73.3 | 77.7 | 84.7 | 0.8 |
| 11.0 | 85.2 | 1.1 | 86.3 | 79.4 | 73.7 | 78.2 | 85.2 | 0.2 |
| 11.5 | 86.5 | 1.0 | 87.5 | 80.6 | 75.3 | 79.6 | 86.6 | 0.2 |
| 12.0 | 88.6 | 1.6 | 90.2 | 82.3 | 77.3 | 81.5 | 88.5 | 0.4 |
| 12.5 | 87.8 | 1.3 | 89.1 | 81.7 | 76.1 | 80.6 | 87.6 | 0.4 |
| 13.0 | 87.4 | 1.4 | 88.8 | 81.5 | 75.9 | 80.3 | 87.3 | 0.4 |
| 13.5 | 87.7 | 1.6 | 89.3 | 81.9 | 76.6 | 80.8 | 87.8 | 0.4 |
| 14.0 | 88.4 | 1.5 | 89.9 | 82.2 | 77.4 | 81.6 | 88.6 | 0.4 |
| 14.5 | 88.7 | 1.3 | 90.0 | 82.4 | 77.7 | 81.9 | 88.9 | 0.4 |
| 15.0 | 88.7 | 1.3 | 90.0 | 82.3 | 77.4 | 81.7 | 88.7 | 0.4 |
| 15.5 | 88.0 | 1.3 | 89.3 | 81.4 | 76.4 | 80.8 | 87.8 | 0.9 |
| 16.0 | 87.1 | 1.3 | 88.4 | 80.7 | 75.5 | 79.9 | 86.9 | 0.9 |
| 16.5 | 86.9 | 1.2 | 88.1 | 81.4 | 76.0 | 80.3 | 87.3 | 0.7 |
| 17.0 | 88.0 | 1.7 | 89.7 | 82.5 | 77.7 | 81.5 | 88.5 | 0.7 |
| 17.5 | 87.7 | 1.6 | 89.3 | 82.2 | 77.5 | 81.2 | 88.2 | 0.7 |
| 18.0 | 86.3 | 1.5 | 87.8 | 80.9 | 76.1 | 79.8 | 86.8 | 0.7 |
| 18.5 | 84.8 | 1.4 | 86.2 | 79.5 | 74.5 | 78.4 | 85.4 | 0.7 |
| 19.0 | 83.4 | 1.2 | 84.6 | 78.3 | 73.1 | 76.9 | 83.9 | 0.7 |
| 19.5 | 82.1 | 1.2 | 83.3 | 77.2 | 71.6 | 75.6 | 82.6 | 0.4 |
| 20.0 | 81.6 | 1.1 | 82.7 | 76.4 | 70.8 | 74.7 | 81.7 | 0.4 |
| 20.5 | 80.6 | 1.2 | 81.8 | 75.5 | 69.8 | 73.8 | 80.8 | 0.4 |
| 21.0 | 79.4 | 1.2 | 80.6 | 74.4 | 68.3 | 72.4 | 79.4 | 0.4 |
| 21.5 | 78.6 | 1.1 | 79.7 | 73.8 | 67.1 | 71.4 | 78.4 | 0.4 |
| 22.0 | 77.9 | 0.8 | 78.7 | 73.0 | 65.9 | 70.4 | 77.4 | 0.4 |
| 22.5 | 77.0 | 1.0 | 78.0 | 72.7 | 64.6 | 69.6 | 76.6 | 0.4 |
| 23.0 | 76.3 | 0.8 | 77.1 | 72.6 | 63.6 | 68.9 | 75.9 | 0.4 |
| 23.5 | 75.5 | 0.9 | 76.4 | 71.6 | 63.0 | 68.2 | 75.2 | 0.4 |

MAXIMUM VALUES IN BANDS, PNLC = 90.1

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 64.6 | 65.9 | 61.0 | 74.0 | 72.0 | 70.0 | 76.6 | 75.1 | 76.7 | 74.7 |
| 73.8 | 72.4 | 72.0 | 66.8 | 64.9 | 62.9 | 61.6 | 59.1 | 55.1 | 50.7 |
| 47.3 | 45.4 | 45.4 | 46.7 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 61.1 | 65.0 | 59.1 | 70.3 | 70.5 | 64.1 | 71.3 | 71.1 | 76.7 | 71.4 |
| 73.8 | 71.4 | 68.1 | 65.4 | 62.9 | 60.7 | 59.6 | 57.2 | 54.2 | 50.1 |
| 46.2 | 44.5 | 44.9 | 46.1 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 9.0 | 2.3 | | | | | | |
| PNL | 14.5 | 88.7 | 19.0 | 98.0 | 23.5 | 98.2 | 89.7 | 87.6 |
| PNLT | 12.0 | 90.2 | 19.0 | 99.6 | 23.5 | 99.7 | 91.2 | 89.1 |
| A-LEV | 14.5 | 77.7 | 18.5 | 87.0 | 23.5 | 87.2 | 78.6 | 76.6 |
| N-LEV | 14.5 | 88.9 | 19.0 | 98.1 | 23.5 | 98.3 | 89.9 | 87.8 |

EPNL = 89.6

TSC 500C #109: FLYOVER, 150 MPH, 500 FT.

| T | PNL | P. T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 78.3 | 2.2 | 80.5 | 72.9 | 65.4 | 70.8 | 77.8 | 0.8 |
| 0.5 | 78.4 | 2.4 | 80.8 | 72.9 | 66.0 | 70.9 | 77.9 | 0.8 |
| 1.0 | 77.7 | 2.4 | 80.1 | 72.2 | 65.2 | 70.1 | 77.1 | 0.8 |
| 1.5 | 78.1 | 2.3 | 80.4 | 72.9 | 67.9 | 71.2 | 78.2 | 0.8 |
| 2.0 | 78.8 | 2.3 | 81.1 | 73.9 | 69.3 | 72.4 | 79.4 | 0.8 |
| 2.5 | 79.0 | 2.3 | 81.3 | 74.2 | 68.9 | 72.3 | 79.3 | 0.8 |
| 3.0 | 78.1 | 2.1 | 80.2 | 73.6 | 68.1 | 71.6 | 78.6 | 0.8 |
| 3.5 | 78.9 | 2.1 | 81.0 | 73.9 | 69.2 | 72.0 | 79.0 | 0.8 |
| 4.0 | 79.4 | 2.0 | 81.4 | 74.7 | 69.5 | 72.4 | 79.4 | 0.8 |
| 4.5 | 79.6 | 2.1 | 81.7 | 75.5 | 69.9 | 72.9 | 79.9 | 0.8 |
| 5.0 | 79.4 | 2.1 | 81.5 | 75.8 | 69.4 | 72.9 | 79.9 | 0.8 |
| 5.5 | 79.6 | 2.1 | 81.7 | 76.1 | 69.4 | 73.1 | 80.1 | 0.8 |
| 6.0 | 79.8 | 2.1 | 81.9 | 76.6 | 69.6 | 73.5 | 80.5 | 0.8 |
| 6.5 | 80.1 | 2.4 | 82.5 | 77.0 | 69.2 | 73.6 | 80.6 | 1.1 |
| 7.0 | 80.6 | 2.6 | 83.2 | 77.2 | 69.6 | 74.0 | 81.0 | 1.1 |
| 7.5 | 81.3 | 2.7 | 84.0 | 77.8 | 70.5 | 74.8 | 81.8 | 1.1 |
| 8.0 | 82.0 | 2.9 | 84.9 | 78.5 | 71.5 | 75.9 | 82.9 | 1.1 |
| 8.5 | 82.6 | 1.9 | 84.5 | 78.9 | 72.2 | 76.6 | 83.6 | 0.3 |
| 9.0 | 83.7 | 1.9 | 85.6 | 79.5 | 73.0 | 77.4 | 84.4 | 0.3 |
| 9.5 | 84.5 | 1.9 | 86.4 | 79.9 | 73.4 | 78.0 | 85.0 | 0.3 |
| 10.0 | 85.8 | 2.1 | 87.9 | 80.7 | 74.3 | 78.9 | 85.9 | 0.8 |
| 10.5 | 87.5 | 2.3 | 89.8 | 82.1 | 76.3 | 80.7 | 87.7 | 0.8 |
| 11.0 | 87.8 | 2.5 | 90.3 | 82.8 | 77.1 | 81.4 | 88.4 | 0.8 |
| 11.5 | 88.3 | 2.7 | 91.0 | 83.3 | 78.1 | 82.1 | 89.1 | 0.8 |
| 12.0 | 88.6 | 2.4 | 91.0 | 83.3 | 78.3 | 82.3 | 89.3 | 0.8 |
| 12.5 | 89.0 | 1.6 | 90.6 | 83.3 | 78.2 | 82.4 | 89.4 | 0.8 |
| 13.0 | 89.6 | 1.2 | 90.8 | 83.9 | 78.3 | 82.7 | 89.7 | 0.5 |
| 13.5 | 90.2 | 1.8 | 92.0 | 84.5 | 78.7 | 83.2 | 90.2 | 0.5 |
| 14.0 | 90.5 | 1.3 | 91.8 | 84.5 | 78.9 | 83.3 | 90.3 | 0.4 |
| 14.5 | 89.6 | 1.3 | 90.9 | 83.6 | 78.2 | 82.6 | 89.6 | 0.4 |
| 15.0 | 88.9 | 1.1 | 90.0 | 83.0 | 77.7 | 82.1 | 89.1 | 0.4 |
| 15.5 | 87.8 | 1.0 | 88.8 | 81.8 | 76.7 | 81.0 | 88.0 | 0.4 |
| 16.0 | 86.3 | 0.8 | 87.1 | 80.3 | 75.2 | 79.5 | 86.5 | 0.4 |
| 16.5 | 84.7 | 0.6 | 85.3 | 78.7 | 73.6 | 77.9 | 84.9 | 0.4 |
| 17.0 | 83.5 | 0.0 | 83.5 | 77.3 | 72.2 | 76.4 | 83.4 | 0.1 |
| 17.5 | 81.9 | 0.5 | 82.4 | 75.8 | 70.6 | 74.8 | 81.8 | 0.9 |
| 18.0 | 80.7 | 0.7 | 81.4 | 74.7 | 69.2 | 73.5 | 80.5 | 0.9 |
| 18.5 | 79.7 | 0.7 | 80.4 | 73.6 | 68.0 | 72.4 | 79.4 | 0.9 |
| 19.0 | 78.5 | 0.7 | 79.2 | 72.5 | 66.8 | 71.2 | 78.2 | 0.9 |
| 19.5 | 76.9 | 0.7 | 77.6 | 71.1 | 65.1 | 69.6 | 76.6 | 0.9 |
| 20.0 | 75.5 | 0.6 | 76.1 | 70.3 | 63.5 | 68.2 | 75.2 | 0.9 |

MAXIMUM VALUES IN BANDS, PNLC = 92.0

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 62.9 | 64.9 | 73.8 | 77.2 | 78.4 | 71.6 | 70.4 | 79.1 | 75.3 | 78.0 |
| 76.5 | 71.8 | 70.7 | 68.6 | 65.6 | 64.0 | 62.1 | 60.5 | 57.2 | 52.5 |
| 50.4 | 47.7 | 46.8 | 47.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 62.7 | 62.4 | 63.5 | 75.4 | 78.4 | 70.2 | 67.2 | 73.2 | 74.4 | 75.8 |
| 74.5 | 71.7 | 70.7 | 68.2 | 65.0 | 63.1 | 61.9 | 59.9 | 56.3 | 51.9 |
| 49.4 | 47.5 | 46.5 | 47.0 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M | |
|---|---|---|---|---|---|---|---|---|---|
| P.T. | 8.0 | 2.9 | | | | | | | |
| PNL | 14.0 | 90.5 | 12.0 | 97.6 | 20.0 | 98.0 | 89.5 | 88.7 | B-153 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PNLT | 13.5 | 92.0 | 12.0 | 99.3 | 20.0 | 99.8 | 91.0 | 90.2 |
| A-LEV | 14.0 | 78.9 | 15.5 | 86.8 | 20.0 | 87.0 | 79.0 | 77.1 |
| N-LEV | 14.0 | 90.3 | 13.0 | 97.9 | 20.0 | 98.3 | 89.7 | 88.5 |

EPNL = 89.3

TSC 500C #110: FLYOVER, 130 MPH, 500 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 73.3 | 2.1 | 75.4 | 68.0 | 59.4 | 65.7 | 72.7 | 0.8 |
| 0.5 | 72.6 | 1.9 | 74.5 | 67.3 | 58.9 | 65.2 | 72.2 | 0.8 |
| 1.0 | 73.3 | 2.1 | 75.4 | 67.8 | 59.9 | 65.8 | 72.8 | 0.8 |
| 1.5 | 73.2 | 2.2 | 75.4 | 67.7 | 60.1 | 65.6 | 72.6 | 0.8 |
| 2.0 | 72.8 | 2.2 | 75.0 | 67.3 | 60.4 | 65.3 | 72.3 | 0.8 |
| 2.5 | 73.9 | 2.3 | 76.2 | 68.4 | 63.0 | 66.7 | 73.7 | 0.8 |
| 3.0 | 75.3 | 2.2 | 77.5 | 69.6 | 65.5 | 68.3 | 75.3 | 0.8 |
| 3.5 | 75.1 | 2.1 | 77.2 | 69.9 | 64.9 | 68.3 | 75.3 | 0.8 |
| 4.0 | 76.7 | 2.2 | 78.9 | 71.6 | 66.9 | 70.0 | 77.0 | 1.2 |
| 4.5 | 77.8 | 2.7 | 80.5 | 72.5 | 68.2 | 71.0 | 78.0 | 1.2 |
| 5.0 | 78.0 | 2.4 | 80.4 | 73.0 | 68.3 | 71.1 | 78.1 | 1.3 |
| 5.5 | 78.2 | 2.3 | 80.5 | 73.6 | 68.4 | 71.5 | 78.5 | 0.8 |
| 6.0 | 77.6 | 2.3 | 79.9 | 73.5 | 67.6 | 71.1 | 78.1 | 0.8 |
| 6.5 | 77.0 | 2.2 | 79.2 | 73.2 | 66.2 | 70.3 | 77.3 | 0.8 |
| 7.0 | 77.0 | 2.3 | 79.3 | 73.6 | 65.9 | 70.4 | 77.4 | 0.8 |
| 7.5 | 76.9 | 2.2 | 79.1 | 73.9 | 65.7 | 70.4 | 77.4 | 0.8 |
| 8.0 | 76.7 | 2.2 | 78.9 | 74.2 | 65.2 | 70.3 | 77.3 | 0.8 |
| 8.5 | 76.7 | 2.3 | 79.0 | 74.2 | 64.5 | 70.1 | 77.1 | 0.8 |
| 9.0 | 77.8 | 2.5 | 80.3 | 75.1 | 66.2 | 71.2 | 78.2 | 0.8 |
| 9.5 | 78.7 | 2.5 | 81.2 | 75.9 | 68.1 | 72.6 | 79.6 | 0.8 |
| 10.0 | 79.5 | 2.3 | 81.8 | 76.6 | 69.2 | 73.4 | 80.4 | 0.8 |
| 10.5 | 80.2 | 2.0 | 82.2 | 76.8 | 69.8 | 73.8 | 80.8 | 0.8 |
| 11.0 | 81.2 | 2.0 | 83.2 | 77.3 | 71.0 | 74.8 | 81.8 | 1.1 |
| 11.5 | 81.8 | 2.4 | 84.2 | 77.7 | 71.3 | 75.3 | 82.3 | 1.1 |
| 12.0 | 81.8 | 2.3 | 84.1 | 77.8 | 71.2 | 75.4 | 82.4 | 1.1 |
| 12.5 | 82.4 | 2.6 | 85.0 | 78.4 | 72.1 | 76.2 | 83.2 | 1.1 |
| 13.0 | 83.8 | 1.8 | 85.6 | 79.4 | 73.3 | 77.6 | 84.6 | 0.3 |
| 13.5 | 84.6 | 1.8 | 86.4 | 79.6 | 73.6 | 78.0 | 85.0 | 0.5 |
| 14.0 | 85.2 | 1.8 | 87.0 | 79.9 | 74.2 | 78.5 | 85.5 | 0.5 |
| 14.5 | 85.4 | 1.9 | 87.3 | 79.9 | 74.2 | 78.6 | 85.6 | 0.5 |
| 15.0 | 85.8 | 2.1 | 87.9 | 80.3 | 74.8 | 79.0 | 86.0 | 0.8 |
| 15.5 | 85.8 | 2.3 | 88.1 | 80.7 | 75.3 | 79.4 | 86.4 | 0.8 |
| 16.0 | 86.1 | 2.6 | 88.7 | 80.8 | 75.7 | 79.7 | 86.7 | 0.8 |
| 16.5 | 86.6 | 2.4 | 89.0 | 81.0 | 75.9 | 80.0 | 87.0 | 0.8 |
| 17.0 | 87.4 | 1.5 | 88.9 | 81.6 | 76.2 | 80.6 | 87.6 | 0.8 |
| 17.5 | 88.1 | 1.1 | 89.2 | 82.6 | 76.9 | 81.4 | 88.4 | 0.5 |
| 18.0 | 88.6 | 1.7 | 90.3 | 83.5 | 77.2 | 81.9 | 88.9 | 0.4 |
| 18.5 | 89.3 | 1.5 | 90.8 | 84.0 | 77.6 | 82.3 | 89.3 | 0.4 |
| 19.0 | 89.8 | 1.5 | 91.3 | 84.0 | 78.0 | 82.6 | 89.6 | 0.4 |
| 19.5 | 88.9 | 1.4 | 90.3 | 83.1 | 77.3 | 81.9 | 88.9 | 0.4 |
| 20.0 | 87.9 | 1.2 | 89.1 | 82.0 | 76.2 | 80.9 | 87.9 | 0.4 |
| 20.5 | 86.7 | 1.1 | 87.8 | 80.8 | 75.2 | 79.7 | 86.7 | 0.4 |
| 21.0 | 85.0 | 1.0 | 86.0 | 79.4 | 73.7 | 78.2 | 85.2 | 0.4 |
| 21.5 | 83.8 | 0.9 | 84.7 | 77.8 | 72.3 | 76.7 | 83.7 | 0.7 |
| 22.0 | 82.3 | 1.0 | 83.3 | 76.3 | 70.8 | 75.1 | 82.1 | 1.1 |
| 22.5 | 80.9 | 0.6 | 81.5 | 75.1 | 69.5 | 73.8 | 80.8 | 0.9 |
| 23.0 | 79.6 | 0.6 | 80.2 | 74.0 | 67.9 | 72.4 | 79.4 | 0.4 |
| 23.5 | 78.5 | 0.7 | 79.2 | 72.7 | 66.8 | 71.2 | 78.2 | 0.9 |
| 24.0 | 77.8 | 0.6 | 78.4 | 72.0 | 65.9 | 70.5 | 77.5 | 0.9 |
| 24.5 | 76.6 | 0.6 | 77.2 | 71.1 | 64.8 | 69.4 | 76.4 | 0.9 |
| 25.0 | 75.4 | 0.6 | 76.0 | 70.1 | 63.5 | 68.2 | 75.2 | 0.9 |

MAXIMUM VALUES IN BANDS, PNLC = 90.7

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 61.5 | 64.5 | 71.7 | 77.8 | 77.5 | 70.6 | 71.9 | 77.4 | 76.1 | 76.3 |
| 73.8 | 70.7 | 68.4 | 65.6 | 64.6 | 62.8 | 60.8 | 59.1 | 55.1 | 52.2 |
| 50.5 | 47.7 | 47.0 | 44.8 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 60.1 | 58.2 | 61.0 | 77.4 | 76.1 | 69.3 | 65.0 | 69.5 | 75.4 | 76.3 |
| 73.6 | 70.7 | 68.4 | 65.6 | 64.6 | 62.8 | 60.7 | 58.8 | 55.0 | 51.9 |
| 50.1 | 47.6 | 47.0 | 46.6 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 4.5 | 2.7 | | | | | | |
| PNL | 19.0 | 89.8 | 13.0 | 97.0 | 25.0 | 97.5 | 89.2 | 89.0 |
| PNLT | 19.0 | 91.3 | 13.5 | 98.7 | 25.0 | 99.2 | 90.8 | 90.5 |
| A-LEV | 19.0 | 78.0 | 14.0 | 85.9 | 25.0 | 86.3 | 77.7 | 77.2 |
| N-LEV | 19.0 | 89.6 | 13.5 | 97.3 | 25.0 | 97.7 | 89.1 | 88.8 |

EPNL = 88.7

TSC S-61 #16: 9 DEG. APRCH., 60 KT., 400 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 76.6 | 1.9 | 78.5 | 71.7 | 64.2 | 69.1 | 76.1 | 0.5 |
| 0.5 | 77.4 | 1.8 | 79.2 | 72.2 | 65.1 | 69.8 | 76.8 | 0.5 |
| 1.0 | 78.6 | 1.8 | 80.4 | 73.4 | 66.5 | 71.1 | 78.1 | 0.5 |
| 1.5 | 80.7 | 1.9 | 82.6 | 74.8 | 68.8 | 73.3 | 80.3 | 0.5 |
| 2.0 | 83.2 | 1.9 | 85.1 | 77.3 | 71.7 | 76.1 | 83.1 | 0.5 |
| 2.5 | 84.4 | 1.8 | 86.2 | 78.4 | 72.9 | 77.4 | 84.4 | 0.5 |
| 3.0 | 83.0 | 1.8 | 84.8 | 77.1 | 71.2 | 75.8 | 82.8 | 0.5 |
| 3.5 | 81.8 | 2.0 | 83.8 | 76.3 | 69.6 | 74.4 | 81.4 | 0.5 |
| 4.0 | 81.1 | 1.8 | 82.9 | 75.7 | 68.8 | 73.6 | 80.6 | 0.5 |
| 4.5 | 80.9 | 1.9 | 82.8 | 75.5 | 68.6 | 73.5 | 80.5 | 0.5 |
| 5.0 | 80.4 | 1.9 | 82.3 | 75.3 | 68.2 | 73.1 | 80.1 | 0.5 |
| 5.5 | 80.6 | 1.9 | 82.5 | 76.0 | 68.0 | 73.1 | 80.1 | 0.5 |
| 6.0 | 80.4 | 1.8 | 82.2 | 75.6 | 67.7 | 72.8 | 79.8 | 0.5 |
| 6.5 | 80.3 | 1.8 | 82.1 | 75.6 | 67.4 | 72.6 | 79.6 | 0.5 |
| 7.0 | 80.9 | 1.9 | 82.8 | 75.8 | 68.1 | 73.2 | 80.2 | 0.5 |
| 7.5 | 81.3 | 1.9 | 83.2 | 75.8 | 68.3 | 73.5 | 80.5 | 0.5 |
| 8.0 | 82.0 | 1.9 | 83.9 | 76.4 | 69.0 | 74.3 | 81.3 | 0.5 |
| 8.5 | 82.1 | 1.9 | 84.0 | 76.4 | 69.2 | 74.4 | 81.4 | 0.5 |
| 9.0 | 81.7 | 1.8 | 83.5 | 76.4 | 68.9 | 74.3 | 81.3 | 0.5 |
| 9.5 | 82.5 | 1.9 | 84.4 | 76.9 | 69.8 | 75.4 | 82.4 | 0.5 |
| 10.0 | 83.4 | 2.0 | 85.4 | 77.5 | 71.1 | 76.6 | 83.6 | 0.5 |
| 10.5 | 84.6 | 2.0 | 86.6 | 78.0 | 72.3 | 77.6 | 84.6 | 0.5 |
| 11.0 | 85.1 | 2.0 | 87.1 | 78.5 | 72.7 | 77.8 | 84.8 | 0.5 |
| 11.5 | 85.1 | 2.0 | 87.1 | 78.2 | 72.4 | 77.6 | 84.6 | 0.8 |
| 12.0 | 85.2 | 2.2 | 87.4 | 78.2 | 72.5 | 77.8 | 84.8 | 0.8 |
| 12.5 | 85.5 | 2.3 | 87.8 | 78.2 | 72.7 | 78.1 | 85.1 | 0.8 |
| 13.0 | 85.5 | 2.1 | 87.6 | 78.2 | 72.4 | 78.1 | 85.1 | 0.8 |
| 13.5 | 85.4 | 2.2 | 87.6 | 78.1 | 72.1 | 78.0 | 85.0 | 0.8 |
| 14.0 | 85.4 | 2.3 | 87.7 | 78.0 | 71.9 | 77.9 | 84.9 | 0.8 |
| 14.5 | 85.7 | 2.3 | 88.0 | 78.1 | 72.5 | 78.3 | 85.3 | 0.8 |
| 15.0 | 86.5 | 2.3 | 88.8 | 78.9 | 73.5 | 79.3 | 86.3 | 0.8 |
| 15.5 | 87.1 | 1.9 | 89.0 | 79.6 | 74.8 | 80.5 | 87.5 | 0.8 |
| 16.0 | 87.7 | 1.5 | 89.2 | 80.2 | 75.3 | 81.1 | 88.1 | 0.5 |
| 16.5 | 89.0 | 1.5 | 90.5 | 81.4 | 76.4 | 82.1 | 89.1 | 0.5 |
| 17.0 | 89.9 | 1.3 | 91.2 | 82.4 | 77.4 | 83.0 | 90.0 | 0.5 |
| 17.5 | 91.6 | 1.4 | 93.0 | 83.5 | 78.9 | 84.6 | 91.6 | 0.5 |
| 18.0 | 92.1 | 1.6 | 93.7 | 84.9 | 79.4 | 85.0 | 92.0 | 0.5 |
| 18.5 | 92.4 | 1.6 | 94.0 | 86.0 | 79.8 | 85.3 | 92.3 | 0.5 |
| 19.0 | 92.4 | 1.7 | 94.1 | 86.6 | 79.9 | 85.5 | 92.5 | 0.4 |
| 19.5 | 92.1 | 1.0 | 93.1 | 86.4 | 80.0 | 85.3 | 92.3 | 0.4 |
| 20.0 | 91.9 | 0.7 | 92.6 | 86.0 | 80.0 | 85.1 | 92.1 | 0.4 |
| 20.5 | 91.7 | 0.6 | 92.3 | 86.3 | 79.6 | 84.9 | 91.9 | 0.4 |
| 21.0 | 91.8 | 0.5 | 92.3 | 86.3 | 79.4 | 84.8 | 91.8 | 0.5 |
| 21.5 | 90.5 | 0.0 | 90.5 | 84.8 | 78.3 | 83.7 | 90.7 | 0.1 |
| 22.0 | 89.0 | 0.0 | 89.0 | 83.2 | 77.0 | 82.2 | 89.2 | 0.1 |
| 22.5 | 87.5 | 0.0 | 87.5 | 81.7 | 75.5 | 80.8 | 87.8 | 0.1 |
| 23.0 | 86.4 | 0.0 | 86.4 | 80.6 | 74.4 | 79.6 | 86.6 | 0.1 |
| 23.5 | 84.8 | 0.0 | 84.8 | 78.9 | 72.8 | 78.0 | 85.0 | 0.1 |
| 24.0 | 83.7 | 0.0 | 83.7 | 77.6 | 71.7 | 76.9 | 83.9 | 0.1 |
| 24.5 | 83.2 | 0.0 | 83.2 | 76.6 | 71.2 | 76.3 | 83.3 | 0.1 |
| 25.0 | 83.0 | 0.0 | 83.0 | 75.8 | 70.7 | 76.0 | 83.0 | 0.1 |
| 25.5 | 82.1 | 0.0 | 82.1 | 74.9 | 69.9 | 75.1 | 82.1 | 0.1 |
| 26.0 | 80.8 | 0.7 | 81.5 | 73.9 | 68.6 | 73.8 | 80.8 | 0.4 |
| 26.5 | 80.4 | 0.8 | 81.2 | 73.9 | 68.0 | 73.3 | 80.3 | 0.4 |
| 27.0 | 79.6 | 1.0 | 80.6 | 73.6 | 66.9 | 72.5 | 79.5 | 0.4 |
| 27.5 | 78.7 | 1.1 | 79.8 | 73.4 | 66.3 | 71.7 | 78.7 | 0.4 |
| 28.0 | 79.0 | 1.2 | 80.2 | 73.6 | 67.7 | 72.2 | 79.2 | 0.4 |
| 28.5 | 78.6 | 1.6 | 80.2 | 73.1 | 67.1 | 71.4 | 78.4 | 1.3 |

MAXIMUM VALUES IN BANDS, PNLC = 93.4

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 71.0 | 69.7 | 66.2 | 79.0 | 80.9 | 80.8 | 76.7 | 75.1 | 75.6 | 74.1 |
| 73.6 | 73.4 | 71.9 | 70.1 | 68.7 | 67.3 | 67.1 | 66.8 | 64.3 | 61.3 |
| 58.3 | 55.5 | 51.9 | 48.2 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 70.6 | 67.4 | 65.2 | 79.0 | 80.9 | 77.2 | 72.5 | 74.6 | 73.8 | 73.5 |
| 72.4 | 72.8 | 71.6 | 69.8 | 68.5 | 66.7 | 66.8 | 65.5 | 63.4 | 61.1 |
| 58.3 | 55.5 | 51.8 | 48.2 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 12.5 | 2.3 | | | | | | |
| PNL | 18.5 | 92.4 | 16.5 | 100.7 | 28.5 | 101.2 | 92.8 | 92.2 |
| PNLT | 19.0 | 94.1 | 15.0 | 101.8 | 28.5 | 102.5 | 94.1 | 93.9 |
| A-LEV | 19.5 | 80.0 | 16.0 | 88.3 | 28.5 | 88.8 | 80.3 | 79.8 |
| N-LEV | 19.0 | 92.5 | 16.0 | 100.7 | 28.5 | 101.2 | 92.8 | 92.3 |

EPNL = 91.8

TSC S-61 #18: FLYOVER, 60 KT., 500 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 80.2 | 0.6 | 80.8 | 75.5 | 68.5 | 73.1 | 80.1 | 0.5 |
| 0.5 | 81.2 | 1.0 | 82.2 | 76.3 | 69.7 | 74.0 | 81.0 | 1.1 |
| 1.0 | 83.6 | 1.2 | 84.8 | 77.7 | 72.6 | 76.3 | 83.3 | 1.1 |
| 1.5 | 85.9 | 1.9 | 87.8 | 79.9 | 75.3 | 78.9 | 85.9 | 1.1 |
| 2.0 | 86.6 | 1.9 | 88.5 | 80.4 | 76.2 | 79.7 | 86.7 | 1.1 |
| 2.5 | 86.3 | 1.4 | 87.7 | 80.4 | 76.3 | 79.9 | 86.9 | 1.4 |
| 3.0 | 86.5 | 1.5 | 88.0 | 80.5 | 76.4 | 80.1 | 87.1 | 1.4 |
| 3.5 | 86.0 | 1.4 | 87.4 | 80.1 | 75.7 | 79.5 | 86.5 | 1.4 |
| 4.0 | 85.0 | 2.6 | 87.6 | 79.2 | 74.6 | 78.5 | 85.5 | 1.1 |
| 4.5 | 84.6 | 1.2 | 85.8 | 78.5 | 74.0 | 77.9 | 84.9 | 0.5 |
| 5.0 | 83.6 | 1.3 | 84.9 | 77.3 | 72.7 | 76.6 | 83.6 | 0.5 |
| 5.5 | 82.9 | 1.3 | 84.2 | 76.7 | 71.7 | 75.8 | 82.8 | 0.5 |
| 6.0 | 81.8 | 1.3 | 83.1 | 75.7 | 70.4 | 74.7 | 81.7 | 0.5 |
| 6.5 | 81.3 | 1.3 | 82.6 | 75.4 | 69.9 | 74.2 | 81.2 | 0.5 |
| 7.0 | 83.0 | 1.3 | 84.3 | 76.6 | 71.6 | 75.8 | 82.8 | 1.1 |
| 7.5 | 84.5 | 1.6 | 86.1 | 78.1 | 73.3 | 77.5 | 84.5 | 1.3 |
| 8.0 | 84.8 | 1.5 | 86.3 | 77.8 | 73.8 | 78.1 | 85.1 | 1.3 |
| 8.5 | 85.1 | 1.2 | 86.3 | 78.4 | 73.8 | 78.2 | 85.2 | 1.3 |
| 9.0 | 85.1 | 1.1 | 86.2 | 78.2 | 73.7 | 78.2 | 85.2 | 0.5 |
| 9.5 | 86.0 | 1.2 | 87.2 | 79.0 | 74.4 | 78.8 | 85.8 | 0.5 |
| 10.0 | 86.3 | 1.2 | 87.5 | 79.6 | 74.6 | 79.3 | 86.3 | 0.5 |
| 10.5 | 86.6 | 1.3 | 87.9 | 80.5 | 75.1 | 79.8 | 86.8 | 0.5 |
| 11.0 | 86.7 | 1.1 | 87.8 | 80.6 | 75.7 | 80.2 | 87.2 | 0.5 |
| 11.5 | 86.8 | 0.8 | 87.6 | 80.9 | 75.4 | 80.2 | 87.2 | 0.2 |
| 12.0 | 88.4 | 1.0 | 89.4 | 81.6 | 76.7 | 81.8 | 88.8 | 0.8 |
| 12.5 | 89.0 | 0.9 | 89.9 | 82.0 | 77.0 | 82.2 | 89.2 | 0.2 |
| 13.0 | 89.8 | 1.0 | 90.8 | 82.6 | 78.0 | 83.2 | 90.2 | 0.2 |
| 13.5 | 90.1 | 1.0 | 91.1 | 82.8 | 78.4 | 83.4 | 90.4 | 0.2 |
| 14.0 | 90.0 | 1.0 | 91.0 | 83.0 | 78.5 | 83.4 | 90.4 | 0.8 |
| 14.5 | 90.7 | 0.9 | 91.6 | 83.7 | 79.4 | 84.0 | 91.0 | 0.2 |
| 15.0 | 90.9 | 0.8 | 91.7 | 83.5 | 79.4 | 84.1 | 91.1 | 0.2 |
| 15.5 | 91.2 | 0.9 | 92.1 | 83.4 | 79.6 | 84.4 | 91.4 | 0.5 |
| 16.0 | 91.1 | 1.3 | 92.4 | 83.3 | 79.6 | 84.3 | 91.3 | 0.5 |
| 16.5 | 91.1 | 1.7 | 92.8 | 83.8 | 79.7 | 84.4 | 91.4 | 0.4 |
| 17.0 | 90.8 | 1.2 | 92.0 | 84.1 | 79.3 | 84.1 | 91.1 | 0.4 |
| 17.5 | 89.8 | 1.5 | 91.3 | 83.7 | 78.6 | 83.2 | 90.2 | 0.4 |
| 18.0 | 89.4 | 1.7 | 91.1 | 83.4 | 78.3 | 82.8 | 89.8 | 0.4 |
| 18.5 | 88.7 | 1.2 | 89.9 | 82.6 | 77.7 | 82.1 | 89.1 | 0.4 |
| 19.0 | 88.1 | 1.3 | 89.4 | 81.7 | 77.4 | 81.6 | 88.6 | 0.4 |
| 19.5 | 87.7 | 1.2 | 88.9 | 81.0 | 77.1 | 81.2 | 88.2 | 0.4 |
| 20.0 | 87.5 | 1.1 | 88.6 | 80.8 | 77.0 | 81.1 | 88.1 | 0.4 |
| 20.5 | 86.9 | 0.8 | 87.7 | 80.2 | 76.2 | 80.5 | 87.5 | 0.4 |
| 21.0 | 86.3 | 0.6 | 86.9 | 79.7 | 75.5 | 79.8 | 86.8 | 0.4 |
| 21.5 | 85.9 | 0.6 | 86.5 | 79.2 | 75.1 | 79.4 | 86.4 | 0.7 |
| 22.0 | 85.5 | 0.6 | 86.1 | 78.8 | 74.6 | 78.9 | 85.9 | 0.7 |
| 22.5 | 84.9 | 0.0 | 84.9 | 78.6 | 74.1 | 78.4 | 85.4 | 0.1 |
| 23.0 | 84.8 | 0.0 | 84.8 | 78.3 | 73.9 | 78.1 | 85.1 | 0.1 |
| 23.5 | 83.8 | 0.0 | 83.8 | 77.5 | 72.9 | 77.1 | 84.1 | 0.1 |
| 24.0 | 82.6 | 0.0 | 82.6 | 76.6 | 71.5 | 75.8 | 82.8 | 0.1 |
| 24.5 | 81.5 | 0.0 | 81.5 | 76.0 | 70.2 | 74.6 | 81.6 | 0.1 |
| 25.0 | 80.2 | 0.0 | 80.2 | 75.5 | 68.7 | 73.3 | 80.3 | 0.1 |
| 25.5 | 79.0 | 0.0 | 79.0 | 75.6 | 67.3 | 72.2 | 79.2 | 0.1 |
| 26.0 | 78.3 | 0.0 | 78.3 | 75.0 | 66.7 | 71.5 | 78.5 | 0.1 |
| 26.5 | 78.2 | 0.0 | 78.2 | 75.2 | 66.8 | 71.5 | 78.5 | 0.1 |
| 27.0 | 77.3 | 1.4 | 78.7 | 74.0 | 66.2 | 70.6 | 77.6 | 1.3 |
| 27.5 | 76.5 | 1.1 | 77.6 | 73.2 | 65.2 | 69.7 | 76.7 | 1.3 |
| 28.0 | 75.6 | 1.1 | 76.7 | 72.1 | 64.0 | 68.6 | 75.6 | 1.3 |

MAXIMUM VALUES IN BANDS, PNLC = 92.5

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 72.6 | 76.1 | 70.9 | 78.5 | 76.7 | 72.5 | 72.4 | 74.7 | 71.4 | 75.8 |
| 75.2 | 72.5 | 72.4 | 72.0 | 70.6 | 68.7 | 67.4 | 66.0 | 62.9 | 59.5 |
| 53.5 | 49.8 | 47.1 | 46.5 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 69.0 | 68.0 | 62.2 | 75.4 | 76.7 | 70.6 | 69.0 | 68.8 | 70.7 | 69.2 |
| 71.3 | 72.5 | 72.4 | 71.5 | 70.5 | 68.5 | 67.4 | 65.8 | 61.9 | 58.1 |
| 53.5 | 49.8 | 46.8 | 46.4 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 4.0 | 2.6 | | | | | | |
| PNL | 15.5 | 91.2 | 24.5 | 101.2 | 28.0 | 101.3 | 93.3 | 90.9 |
| PNLT | 16.5 | 92.8 | 17.5 | 101.6 | 28.0 | 102.5 | 93.5 | 92.5 |
| A-LEV | 16.5 | 79.7 | 24.5 | 90.1 | 28.0 | 90.1 | 81.8 | 79.4 |
| N-LEV | 15.5 | 91.4 | 18.5 | 100.9 | 28.0 | 101.6 | 92.3 | 91.1 |

EPNL = 91.6

TSC S-61 #20: 6 DEG. APRCH., 60 KT., 400 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 85.9 | 1.5 | 87.4 | 80.3 | 73.6 | 78.8 | 85.8 | 0.5 |
| 0.5 | 86.6 | 1.7 | 88.3 | 80.8 | 74.3 | 79.4 | 86.4 | 0.5 |
| 1.0 | 87.0 | 1.6 | 88.6 | 81.0 | 74.5 | 79.6 | 86.6 | 0.5 |
| 1.5 | 87.4 | 1.7 | 89.1 | 81.4 | 75.2 | 80.2 | 87.2 | 0.5 |
| 2.0 | 87.5 | 1.7 | 89.2 | 81.6 | 75.5 | 80.4 | 87.4 | 0.5 |
| 2.5 | 87.7 | 1.7 | 89.4 | 81.8 | 74.9 | 80.1 | 87.1 | 0.5 |
| 3.0 | 87.8 | 1.9 | 89.7 | 81.6 | 74.9 | 80.1 | 87.1 | 0.5 |
| 3.5 | 88.0 | 1.8 | 89.8 | 81.4 | 74.8 | 80.2 | 87.2 | 0.8 |
| 4.0 | 88.0 | 1.8 | 89.8 | 81.1 | 74.6 | 80.3 | 87.3 | 0.8 |
| 4.5 | 88.5 | 1.7 | 90.2 | 81.5 | 75.2 | 81.1 | 88.1 | 0.8 |
| 5.0 | 90.1 | 1.5 | 91.6 | 83.4 | 77.2 | 82.9 | 89.9 | 0.8 |
| 5.5 | 90.9 | 1.4 | 92.3 | 84.4 | 78.0 | 83.6 | 90.6 | 0.8 |
| 6.0 | 91.2 | 1.0 | 92.2 | 84.6 | 78.4 | 84.1 | 91.1 | 0.5 |
| 6.5 | 92.1 | 0.7 | 92.8 | 85.6 | 79.9 | 85.5 | 92.5 | 0.5 |
| 7.0 | 93.0 | 0.5 | 93.5 | 86.3 | 80.4 | 86.2 | 93.2 | 0.2 |
| 7.5 | 93.3 | 0.0 | 93.3 | 87.0 | 80.6 | 86.4 | 93.4 | 0.1 |
| 8.0 | 93.6 | 1.2 | 94.8 | 88.0 | 80.9 | 86.7 | 93.7 | 0.5 |
| 8.5 | 93.9 | 1.3 | 95.2 | 88.5 | 81.4 | 87.0 | 94.0 | 0.4 |
| 9.0 | 94.6 | 1.3 | 95.9 | 89.8 | 81.7 | 87.5 | 94.5 | 0.4 |
| 9.5 | 94.9 | 0.8 | 95.7 | 90.6 | 82.0 | 87.9 | 94.9 | 0.4 |
| 10.0 | 95.7 | 0.7 | 96.4 | 91.6 | 82.7 | 88.7 | 95.7 | 0.4 |
| 10.5 | 95.7 | 0.7 | 96.4 | 91.5 | 82.6 | 88.6 | 95.6 | 0.4 |
| 11.0 | 95.8 | 0.7 | 96.5 | 91.8 | 83.1 | 89.0 | 96.0 | 0.9 |
| 11.5 | 95.5 | 0.6 | 96.1 | 91.6 | 82.8 | 88.8 | 95.8 | 0.9 |
| 12.0 | 95.0 | 0.0 | 95.0 | 90.8 | 82.2 | 88.1 | 95.1 | 0.1 |
| 12.5 | 94.2 | 0.5 | 94.7 | 89.8 | 81.1 | 87.1 | 94.1 | 0.7 |
| 13.0 | 93.1 | 0.6 | 93.7 | 88.6 | 80.0 | 86.0 | 93.0 | 0.2 |
| 13.5 | 92.0 | 0.5 | 92.5 | 87.4 | 79.1 | 84.9 | 91.9 | 0.2 |
| 14.0 | 90.7 | 0.7 | 91.4 | 86.1 | 78.0 | 83.7 | 90.7 | 0.2 |
| 14.5 | 89.8 | 0.6 | 90.4 | 85.0 | 77.0 | 82.7 | 89.7 | 0.2 |
| 15.0 | 88.4 | 0.7 | 89.1 | 83.5 | 75.8 | 81.3 | 88.3 | 0.2 |
| 15.5 | 87.9 | 0.6 | 88.5 | 82.9 | 75.6 | 81.0 | 88.0 | 0.2 |
| 16.0 | 87.2 | 0.7 | 87.9 | 81.8 | 74.8 | 80.1 | 87.1 | 0.2 |
| 16.5 | 86.1 | 0.5 | 86.6 | 80.6 | 73.6 | 78.8 | 85.8 | 0.2 |
| 17.0 | 84.9 | 0.0 | 84.9 | 79.3 | 72.4 | 77.5 | 84.5 | 0.1 |
| 17.5 | 84.0 | 0.0 | 84.0 | 78.6 | 71.4 | 76.6 | 83.6 | 0.1 |
| 18.0 | 83.0 | 0.0 | 83.0 | 78.2 | 70.4 | 75.8 | 82.8 | 0.1 |
| 18.5 | 82.3 | 0.7 | 83.0 | 77.7 | 69.7 | 75.1 | 82.1 | 0.2 |
| 19.0 | 81.7 | 0.9 | 82.6 | 77.1 | 68.8 | 74.3 | 81.3 | 0.2 |
| 19.5 | 81.1 | 1.1 | 82.2 | 76.4 | 67.9 | 73.6 | 80.6 | 0.2 |
| 20.0 | 80.9 | 1.1 | 82.0 | 76.3 | 67.5 | 73.3 | 80.3 | 0.2 |
| 20.5 | 80.2 | 0.9 | 81.1 | 75.8 | 66.6 | 72.7 | 79.7 | 0.2 |

MAXIMUM VALUES IN BANDS, PNLC = 97.1

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 72.7 | 72.7 | 69.9 | 82.5 | 86.0 | 86.8 | 84.8 | 81.5 | 82.6 | 79.5 |
| 76.6 | 74.1 | 72.5 | 70.3 | 69.5 | 67.9 | 67.5 | 67.5 | 65.5 | 61.5 |
| 57.5 | 54.6 | 51.1 | 47.7 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 70.8 | 69.5 | 65.6 | 78.6 | 84.5 | 86.8 | 83.8 | 78.2 | 82.6 | 78.4 |
| 76.6 | 73.2 | 71.8 | 69.3 | 68.5 | 66.5 | 64.5 | 63.4 | 60.8 | 58.3 |
| 55.4 | 52.8 | 49.7 | 47.2 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 3.0 | 1.9 | | B-161 | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PNL | 11.0 | 95.8 | 17.0 | 104.3 | 20.5 | 104.4 | 96.3 | 94.1 |
| PNLT | 11.0 | 96.5 | 17.0 | 105.2 | 20.5 | 105.3 | 97.0 | 94.8 |
| A-LEV | 11.0 | 83.1 | 17.0 | 91.5 | 20.5 | 91.7 | 83.6 | 81.4 |
| N-LEV | 11.0 | 96.0 | 16.5 | 104.3 | 20.5 | 104.4 | 96.4 | 94.3 |

EPNL = 95.2

TSC S-61 #34: FLYOVER, 115 KT., 500 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 78.5 | 3.3 | 81.8 | 74.0 | 64.7 | 70.7 | 77.7 | 1.6 |
| 0.5 | 81.9 | 2.8 | 84.7 | 75.0 | 69.2 | 74.3 | 81.3 | 1.6 |
| 1.0 | 83.8 | 2.2 | 86.0 | 76.0 | 71.8 | 76.6 | 83.6 | 1.6 |
| 1.5 | 84.4 | 2.1 | 86.5 | 76.3 | 72.1 | 77.1 | 84.1 | 1.6 |
| 2.0 | 84.3 | 2.3 | 86.6 | 76.3 | 71.9 | 76.8 | 83.8 | 1.6 |
| 2.5 | 85.6 | 1.8 | 87.4 | 77.8 | 74.2 | 78.5 | 85.5 | 1.6 |
| 3.0 | 86.7 | 1.6 | 88.3 | 79.2 | 76.2 | 80.3 | 87.3 | 0.5 |
| 3.5 | 86.4 | 1.6 | 88.0 | 79.2 | 75.8 | 80.2 | 87.2 | 0.5 |
| 4.0 | 87.7 | 1.7 | 89.4 | 80.2 | 77.3 | 81.5 | 88.5 | 0.8 |
| 4.5 | 89.0 | 1.8 | 90.8 | 81.6 | 78.8 | 82.9 | 89.9 | 0.8 |
| 5.0 | 90.1 | 2.0 | 92.1 | 82.9 | 80.1 | 84.2 | 91.2 | 0.8 |
| 5.5 | 91.9 | 1.8 | 93.7 | 84.2 | 81.5 | 85.8 | 92.8 | 0.8 |
| 6.0 | 93.9 | 1.3 | 95.2 | 85.7 | 83.1 | 87.6 | 94.6 | 0.8 |
| 6.5 | 94.3 | 1.7 | 96.0 | 85.9 | 82.9 | 87.7 | 94.7 | 0.5 |
| 7.0 | 94.1 | 1.7 | 95.8 | 86.2 | 82.4 | 87.4 | 94.4 | 0.5 |
| 7.5 | 93.7 | 1.3 | 95.0 | 86.6 | 82.0 | 86.9 | 93.9 | 0.4 |
| 8.0 | 93.0 | 1.6 | 94.6 | 85.9 | 81.3 | 86.3 | 93.3 | 0.4 |
| 8.5 | 92.0 | 1.5 | 93.5 | 85.0 | 80.6 | 85.4 | 92.4 | 0.4 |
| 9.0 | 90.9 | 1.4 | 92.3 | 83.8 | 79.8 | 84.4 | 91.4 | 0.4 |
| 9.5 | 89.5 | 1.3 | 90.8 | 82.4 | 78.5 | 83.0 | 90.0 | 0.4 |
| 10.0 | 87.9 | 1.2 | 89.1 | 80.9 | 77.0 | 81.4 | 88.4 | 0.4 |
| 10.5 | 86.6 | 1.0 | 87.6 | 79.7 | 75.6 | 80.0 | 87.0 | 0.4 |
| 11.0 | 86.0 | 0.7 | 86.7 | 79.1 | 74.9 | 79.2 | 86.2 | 0.4 |
| 11.5 | 84.6 | 0.6 | 85.2 | 77.9 | 73.9 | 78.1 | 85.1 | 0.7 |
| 12.0 | 83.9 | 0.0 | 83.9 | 77.0 | 73.2 | 77.2 | 84.2 | 0.1 |
| 12.5 | 83.7 | 0.0 | 83.7 | 77.0 | 73.3 | 77.0 | 84.0 | 0.1 |
| 13.0 | 83.4 | 0.0 | 83.4 | 76.7 | 73.2 | 76.8 | 83.8 | 0.1 |
| 13.5 | 82.5 | 0.0 | 82.5 | 76.0 | 72.4 | 76.0 | 83.0 | 0.1 |
| 14.0 | 80.8 | 0.0 | 80.8 | 74.6 | 70.4 | 74.2 | 81.2 | 0.1 |
| 14.5 | 79.3 | 0.0 | 79.3 | 74.4 | 68.5 | 72.5 | 79.5 | 0.1 |
| 15.0 | 78.2 | 0.0 | 78.2 | 73.9 | 67.0 | 71.3 | 78.3 | 0.1 |

MAXIMUM VALUES IN BANDS, PNLC = 95.0

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 70.0 | 69.4 | 66.5 | 80.9 | 79.4 | 70.9 | 70.2 | 77.8 | 74.9 | 75.5 |
| 75.7 | 76.5 | 75.9 | 75.0 | 73.0 | 70.4 | 70.2 | 69.4 | 67.1 | 64.2 |
| 58.5 | 53.6 | 48.5 | 46.8 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 70.0 | 68.4 | 63.9 | 69.4 | 77.7 | 69.7 | 68.8 | 75.9 | 73.4 | 74.9 |
| 75.7 | 76.1 | 75.3 | 74.5 | 72.6 | 70.4 | 70.2 | 69.4 | 67.1 | 64.2 |
| 58.4 | 52.8 | 47.7 | 46.4 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 0.0 | 3.3 | | | | | | |
| PNL | 6.5 | 94.3 | 10.0 | 100.6 | 15.0 | 100.9 | 92.5 | 91.3 |
| PNLT | 6.5 | 96.0 | 10.5 | 102.2 | 15.0 | 102.5 | 94.5 | 93.0 |
| A-LEV | 6.0 | 83.1 | 11.5 | 89.7 | 15.0 | 89.8 | 81.9 | 80.1 |
| N-LEV | 6.5 | 94.7 | 10.0 | 101.1 | 15.0 | 101.4 | 92.9 | 91.7 |

EPNL = 92.2

TSC S-64: FLYOVER, 60 KT., 500 FT. TSC S-64 #50: FLYOVER, 60 KT., 500 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 81.1 | 1.6 | 82.7 | 80.4 | 66.0 | 74.1 | 81.1 | 0.2 |
| 0.5 | 81.7 | 1.7 | 83.4 | 81.0 | 66.9 | 74.6 | 81.6 | 0.2 |
| 1.0 | 82.3 | 1.6 | 83.9 | 80.7 | 67.7 | 74.8 | 81.8 | 0.2 |
| 1.5 | 82.4 | 1.8 | 84.2 | 81.0 | 68.0 | 75.0 | 82.0 | 0.2 |
| 2.0 | 82.6 | 1.8 | 84.4 | 81.3 | 68.1 | 75.2 | 82.2 | 0.2 |
| 2.5 | 83.0 | 1.9 | 84.9 | 81.7 | 68.5 | 75.6 | 82.6 | 0.2 |
| 3.0 | 83.2 | 2.0 | 85.2 | 82.2 | 68.6 | 75.9 | 82.9 | 0.2 |
| 3.5 | 83.1 | 1.8 | 84.9 | 81.5 | 68.5 | 75.7 | 82.7 | 0.2 |
| 4.0 | 83.0 | 2.0 | 85.0 | 82.0 | 68.3 | 75.7 | 82.7 | 0.2 |
| 4.5 | 82.8 | 1.8 | 84.6 | 81.4 | 68.3 | 75.5 | 82.5 | 0.2 |
| 5.0 | 82.7 | 1.7 | 84.4 | 81.5 | 68.2 | 75.4 | 82.4 | 0.2 |
| 5.5 | 83.3 | 1.6 | 84.9 | 82.0 | 69.1 | 76.1 | 83.1 | 0.2 |
| 6.0 | 84.1 | 1.4 | 85.5 | 81.6 | 70.5 | 76.7 | 83.7 | 0.2 |
| 6.5 | 84.6 | 1.7 | 86.3 | 82.6 | 70.8 | 77.2 | 84.2 | 0.2 |
| 7.0 | 84.2 | 1.5 | 85.7 | 82.2 | 70.3 | 76.8 | 83.8 | 0.2 |
| 7.5 | 84.7 | 1.4 | 86.1 | 82.2 | 70.9 | 77.2 | 84.2 | 0.2 |
| 8.0 | 84.8 | 1.7 | 86.5 | 82.7 | 70.9 | 77.4 | 84.4 | 0.2 |
| 8.5 | 84.7 | 1.8 | 86.5 | 83.2 | 70.9 | 77.4 | 84.4 | 0.2 |
| 9.0 | 85.2 | 1.5 | 86.7 | 83.1 | 71.6 | 77.7 | 84.7 | 0.2 |
| 9.5 | 86.0 | 1.5 | 87.5 | 84.3 | 72.7 | 78.7 | 85.7 | 0.2 |
| 10.0 | 87.1 | 1.2 | 88.3 | 84.6 | 73.8 | 79.6 | 86.6 | 0.2 |
| 10.5 | 87.6 | 1.3 | 88.9 | 85.4 | 74.4 | 80.1 | 87.1 | 0.2 |
| 11.0 | 89.1 | 1.4 | 90.5 | 86.2 | 75.7 | 81.5 | 88.5 | 0.2 |
| 11.5 | 90.7 | 1.4 | 92.1 | 86.8 | 77.3 | 82.9 | 89.9 | 0.2 |
| 12.0 | 92.5 | 1.7 | 94.2 | 88.4 | 78.8 | 84.5 | 91.5 | 0.2 |
| 12.5 | 94.7 | 1.5 | 96.2 | 90.0 | 81.2 | 86.9 | 93.9 | 0.2 |
| 13.0 | 95.5 | 1.8 | 97.3 | 90.9 | 82.2 | 87.9 | 94.9 | 0.7 |
| 13.5 | 95.2 | 1.6 | 96.8 | 90.8 | 82.0 | 87.7 | 94.7 | 0.2 |
| 14.0 | 96.8 | 1.5 | 98.3 | 92.0 | 83.1 | 89.0 | 96.0 | 0.2 |
| 14.5 | 96.3 | 1.7 | 98.0 | 91.1 | 82.6 | 88.3 | 95.3 | 0.2 |
| 15.0 | 95.4 | 1.7 | 97.1 | 90.0 | 82.0 | 87.4 | 94.4 | 0.2 |
| 15.5 | 94.9 | 1.8 | 96.7 | 89.3 | 81.6 | 87.0 | 94.0 | 0.2 |
| 16.0 | 94.9 | 1.8 | 96.7 | 89.3 | 82.2 | 87.3 | 94.3 | 0.2 |
| 16.5 | 95.2 | 1.8 | 97.0 | 89.4 | 83.0 | 87.9 | 94.9 | 0.2 |
| 17.0 | 94.7 | 1.7 | 96.4 | 89.3 | 82.8 | 87.7 | 94.7 | 0.2 |
| 17.5 | 94.8 | 1.7 | 96.5 | 89.3 | 82.6 | 87.5 | 94.5 | 0.2 |
| 18.0 | 94.2 | 1.6 | 95.8 | 88.6 | 82.4 | 87.1 | 94.1 | 0.5 |
| 18.5 | 93.4 | 1.4 | 94.8 | 87.8 | 81.8 | 86.4 | 93.4 | 0.4 |
| 19.0 | 92.9 | 1.2 | 94.1 | 87.5 | 81.2 | 86.0 | 93.0 | 0.4 |
| 19.5 | 92.3 | 1.1 | 93.4 | 86.5 | 80.7 | 85.3 | 92.3 | 0.4 |
| 20.0 | 91.4 | 1.0 | 92.4 | 85.5 | 79.7 | 84.4 | 91.4 | 0.4 |
| 20.5 | 90.4 | 0.8 | 91.2 | 85.0 | 78.8 | 83.3 | 90.3 | 0.4 |
| 21.0 | 89.7 | 0.5 | 90.2 | 84.5 | 78.0 | 82.6 | 89.6 | 0.6 |
| 21.5 | 89.4 | 0.5 | 89.9 | 84.9 | 77.6 | 82.2 | 89.2 | 0.6 |
| 22.0 | 89.3 | 0.6 | 89.9 | 85.3 | 77.4 | 82.1 | 89.1 | 1.0 |
| 22.5 | 88.7 | 0.0 | 88.7 | 85.2 | 77.2 | 81.7 | 88.7 | 0.1 |
| 23.0 | 88.9 | 1.1 | 90.0 | 85.1 | 77.4 | 81.6 | 88.6 | 1.5 |
| 23.5 | 88.7 | 1.3 | 90.0 | 85.1 | 77.2 | 81.4 | 88.4 | 1.5 |
| 24.0 | 88.3 | 0.5 | 88.8 | 84.8 | 76.7 | 81.0 | 88.0 | 0.4 |
| 24.5 | 88.3 | 1.1 | 89.4 | 84.8 | 76.7 | 80.9 | 87.9 | 1.5 |
| 25.0 | 88.1 | 1.0 | 89.1 | 84.2 | 76.5 | 80.7 | 87.7 | 1.5 |
| 25.5 | 87.7 | 0.0 | 87.7 | 84.2 | 76.2 | 80.4 | 87.4 | 0.1 |
| 26.0 | 86.9 | 0.5 | 87.4 | 83.1 | 75.3 | 79.6 | 86.6 | 0.4 |
| 26.5 | 86.1 | 0.5 | 86.6 | 82.9 | 74.5 | 78.9 | 85.9 | 0.4 |
| 27.0 | 85.4 | 0.5 | 85.9 | 81.8 | 73.7 | 78.0 | 85.0 | 0.4 |
| 27.5 | 84.8 | 1.1 | 85.9 | 81.7 | 73.0 | 77.4 | 84.4 | 1.3 |
| 28.0 | 84.2 | 1.3 | 85.5 | 80.7 | 72.3 | 76.6 | 83.6 | 1.3 |
| 28.5 | 82.7 | 1.3 | 84.2 | 80.0 | 70.9 | 75.6 | 82.6 | 1.3 |
| 29.0 | 81.8 | 1.0 | 82.8 | 79.1 | 69.5 | 74.6 | 81.6 | 1.3 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 29.5 | 80.8 | 0.5 | 81.3 | 78.7 | 68.2 | 73.9 | 80.9 | 0.4 |
| 30.0 | 80.1 | 1.0 | 81.1 | 78.5 | 66.9 | 73.3 | 80.3 | 0.4 |
| 30.5 | 79.8 | 1.0 | 80.8 | 77.4 | 66.3 | 72.8 | 79.8 | 0.4 |

MAXIMUM VALUES IN BANDS, PNLC = 98.5

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 82.0 | 85.1 | 76.4 | 79.3 | 84.3 | 81.6 | 87.7 | 84.8 | 78.8 | 76.7 |
| 75.9 | 74.6 | 74.8 | 75.0 | 73.3 | 71.7 | 68.9 | 66.3 | 62.7 | 58.6 |
| 57.2 | 55.9 | 55.0 | 55.9 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 75.8 | 84.6 | 74.9 | 67.6 | 73.0 | 81.6 | 87.7 | 84.4 | 75.4 | 76.5 |
| 75.5 | 73.7 | 72.5 | 70.5 | 68.4 | 67.7 | 66.3 | 64.0 | 59.3 | 54.8 |
| 53.1 | 55.6 | 54.4 | 55.6 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 3.0 | 2.0 | | | | | | |
| PNL | 14.0 | 96.8 | 17.0 | 104.9 | 30.5 | 105.3 | 97.3 | 96.9 |
| PNLT | 14.0 | 98.3 | 15.5 | 106.3 | 30.5 | 106.8 | 98.4 | 98.4 |
| A-LEV | 14.0 | 83.1 | 18.0 | 92.4 | 30.5 | 92.7 | 83.9 | 83.2 |
| N-LEV | 14.0 | 96.0 | 17.0 | 104.4 | 30.5 | 104.9 | 96.5 | 96.1 |

EPNL = 96.3

TSC S-64 #51: 6 DEG. APRCH., 60 KT., 400 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 83.9 | 2.0 | 85.9 | 84.1 | 67.0 | 76.3 | 83.3 | 0.2 |
| 0.5 | 83.1 | 1.9 | 85.0 | 83.0 | 67.0 | 75.7 | 82.7 | 0.2 |
| 1.0 | 82.5 | 1.6 | 84.1 | 82.2 | 66.8 | 75.3 | 82.3 | 0.2 |
| 1.5 | 82.1 | 1.6 | 83.7 | 81.5 | 67.1 | 75.2 | 82.2 | 0.2 |
| 2.0 | 82.2 | 1.5 | 83.7 | 81.4 | 67.5 | 75.3 | 82.3 | 0.2 |
| 2.5 | 82.5 | 1.1 | 83.6 | 80.7 | 67.6 | 75.2 | 82.2 | 0.2 |
| 3.0 | 82.7 | 0.8 | 83.5 | 81.1 | 67.8 | 75.5 | 82.5 | 0.7 |
| 3.5 | 83.3 | 1.2 | 84.5 | 81.2 | 68.5 | 75.8 | 82.8 | 1.4 |
| 4.0 | 86.4 | 2.0 | 88.4 | 86.4 | 69.4 | 78.3 | 85.3 | 0.2 |
| 4.5 | 86.3 | 2.1 | 88.4 | 86.3 | 69.5 | 78.3 | 85.3 | 0.2 |
| 5.0 | 86.3 | 2.2 | 88.5 | 86.4 | 69.3 | 78.2 | 85.2 | 0.2 |
| 5.5 | 84.9 | 1.9 | 86.8 | 84.7 | 68.8 | 77.2 | 84.2 | 0.2 |
| 6.0 | 84.3 | 1.8 | 86.1 | 84.0 | 68.4 | 76.8 | 83.8 | 0.2 |
| 6.5 | 84.4 | 1.8 | 86.2 | 84.2 | 68.4 | 76.8 | 83.8 | 0.2 |
| 7.0 | 84.7 | 1.8 | 86.5 | 84.4 | 69.0 | 77.2 | 84.2 | 0.2 |
| 7.5 | 84.8 | 1.6 | 86.4 | 84.4 | 69.8 | 77.7 | 84.7 | 0.2 |
| 8.0 | 85.0 | 1.5 | 86.5 | 84.0 | 70.8 | 78.1 | 85.1 | 0.2 |
| 8.5 | 85.8 | 1.6 | 87.4 | 84.5 | 71.9 | 78.8 | 85.8 | 0.2 |
| 9.0 | 86.6 | 1.5 | 88.1 | 84.6 | 72.8 | 79.4 | 86.4 | 0.2 |
| 9.5 | 87.8 | 1.6 | 89.4 | 85.5 | 74.1 | 80.4 | 87.4 | 0.2 |
| 10.0 | 88.9 | 1.5 | 90.4 | 85.8 | 75.3 | 81.4 | 88.4 | 0.2 |
| 10.5 | 89.8 | 1.5 | 91.3 | 86.1 | 76.5 | 82.3 | 89.3 | 0.2 |
| 11.0 | 90.9 | 1.7 | 92.6 | 87.4 | 77.6 | 83.5 | 90.5 | 0.2 |
| 11.5 | 91.7 | 1.6 | 93.3 | 87.8 | 78.8 | 84.5 | 91.5 | 0.2 |
| 12.0 | 92.2 | 1.7 | 93.9 | 88.5 | 79.4 | 85.1 | 92.1 | 0.2 |
| 12.5 | 92.2 | 1.7 | 93.9 | 88.4 | 79.1 | 85.0 | 92.0 | 0.2 |
| 13.0 | 92.3 | 1.6 | 93.9 | 88.3 | 78.9 | 84.8 | 91.8 | 0.2 |
| 13.5 | 93.6 | 1.7 | 95.3 | 89.5 | 80.0 | 85.9 | 92.9 | 0.2 |
| 14.0 | 95.1 | 1.5 | 96.6 | 90.7 | 81.6 | 87.5 | 94.5 | 0.2 |
| 14.5 | 96.0 | 1.7 | 97.7 | 91.8 | 82.5 | 88.7 | 95.7 | 0.2 |
| 15.0 | 97.6 | 1.9 | 99.5 | 93.5 | 83.8 | 90.2 | 97.2 | 0.2 |
| 15.5 | 98.5 | 2.0 | 100.5 | 94.2 | 84.4 | 90.9 | 97.9 | 0.2 |
| 16.0 | 99.3 | 2.0 | 101.3 | 94.6 | 85.0 | 91.6 | 98.6 | 0.2 |
| 16.5 | 99.6 | 1.9 | 101.5 | 94.8 | 85.1 | 91.7 | 98.7 | 0.2 |
| 17.0 | 99.6 | 1.7 | 101.3 | 94.9 | 85.3 | 91.7 | 98.7 | 0.2 |
| 17.5 | 99.4 | 1.5 | 100.9 | 95.1 | 85.3 | 91.8 | 98.8 | 0.2 |
| 18.0 | 98.9 | 1.1 | 100.0 | 94.9 | 85.1 | 91.5 | 98.5 | 0.2 |
| 18.5 | 98.7 | 0.9 | 99.6 | 94.6 | 84.9 | 91.2 | 98.2 | 0.2 |
| 19.0 | 98.4 | 0.8 | 99.2 | 94.2 | 84.4 | 90.7 | 97.7 | 0.2 |
| 19.5 | 97.7 | 0.6 | 98.3 | 93.5 | 83.8 | 90.0 | 97.0 | 0.2 |
| 20.0 | 97.1 | 0.6 | 97.7 | 92.8 | 83.0 | 89.3 | 96.3 | 0.4 |
| 20.5 | 95.8 | 0.6 | 96.4 | 91.4 | 81.9 | 88.1 | 95.1 | 0.4 |
| 21.0 | 94.9 | 0.0 | 94.9 | 90.4 | 81.0 | 87.0 | 94.0 | 0.1 |
| 21.5 | 94.4 | 0.0 | 94.4 | 90.4 | 80.5 | 86.6 | 93.6 | 0.1 |
| 22.0 | 94.2 | 0.0 | 94.2 | 90.2 | 80.3 | 86.3 | 93.3 | 0.1 |
| 22.5 | 94.0 | 0.0 | 94.0 | 90.3 | 80.0 | 86.0 | 93.0 | 0.1 |
| 23.0 | 93.7 | 0.5 | 94.2 | 89.7 | 79.7 | 85.6 | 92.6 | 0.8 |
| 23.5 | 92.6 | 0.0 | 92.6 | 88.7 | 78.8 | 84.5 | 91.5 | 0.1 |
| 24.0 | 91.6 | 0.0 | 91.6 | 87.6 | 78.2 | 83.7 | 90.7 | 0.1 |
| 24.5 | 90.8 | 0.0 | 90.8 | 87.5 | 77.7 | 83.0 | 90.0 | 0.1 |
| 25.0 | 89.6 | 0.0 | 89.6 | 87.0 | 76.3 | 82.0 | 89.0 | 0.1 |
| 25.5 | 88.4 | 0.0 | 88.4 | 86.4 | 74.8 | 80.9 | 87.9 | 0.1 |
| 26.0 | 87.4 | 0.0 | 87.4 | 85.4 | 73.5 | 79.8 | 86.8 | 0.1 |
| 26.5 | 86.9 | 1.2 | 88.1 | 84.9 | 72.8 | 79.2 | 86.2 | 1.5 |
| 27.0 | 86.4 | 1.5 | 87.9 | 84.1 | 72.3 | 78.6 | 85.6 | 1.5 |
| 27.5 | 85.9 | 1.6 | 87.5 | 83.9 | 71.7 | 78.1 | 85.1 | 1.5 |
| 28.0 | 85.5 | 1.3 | 86.8 | 83.4 | 71.1 | 77.6 | 84.6 | 1.5 |
| 28.5 | 85.7 | 1.2 | 86.9 | 83.6 | 70.9 | 77.7 | 84.7 | 1.5 |
| 29.0 | 85.5 | 1.3 | 86.8 | 83.3 | 70.8 | 77.8 | 84.8 | 1.5 |

MAXIMUM VALUES IN BANDS, PNLC =101.1

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 85.2 | 85.4 | 78.1 | 84.8 | 88.9 | 89.8 | 91.0 | 86.5 | 81.2 | 78.1 |
| 77.0 | 75.1 | 75.1 | 74.4 | 73.2 | 71.4 | 68.6 | 68.6 | 64.7 | 61.1 |
| 60.7 | 57.8 | 57.0 | 56.2 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 74.4 | 83.6 | 69.9 | 77.7 | 84.2 | 88.4 | 91.0 | 83.6 | 78.7 | 78.0 |
| 75.0 | 74.1 | 73.1 | 71.7 | 70.4 | 70.7 | 68.1 | 67.6 | 62.0 | 58.0 |
| 57.8 | 57.0 | 55.0 | 55.7 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 5.0 | 2.2 | | | | | | |
| PNL | 16.5 | 99.6 | 15.0 | 107.9 | 29.0 | 108.2 | 99.6 | 99.5 |
| PNLT | 16.5 | 101.5 | 14.0 | 109.1 | 29.0 | 109.5 | 101.2 | 101.4 |
| A-LEV | 17.0 | 85.3 | 15.5 | 94.0 | 29.0 | 94.2 | 85.4 | 85.2 |
| N-LEV | 17.5 | 98.8 | 15.5 | 107.2 | 29.0 | 107.6 | 98.9 | 98.7 |

EPNL = 99.1

TSC S-64 #67: FLYOVER, 95 KT., 500 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 89.1 | 1.2 | 90.3 | 87.5 | 75.6 | 81.4 | 88.4 | 0.2 |
| 0.5 | 90.7 | 1.3 | 92.0 | 88.6 | 77.2 | 82.9 | 89.9 | 0.2 |
| 1.0 | 91.9 | 1.6 | 93.5 | 89.7 | 78.0 | 83.9 | 90.9 | 0.2 |
| 1.5 | 93.1 | 1.7 | 94.8 | 90.4 | 79.2 | 85.2 | 92.2 | 0.2 |
| 2.0 | 94.9 | 2.0 | 96.9 | 91.4 | 81.7 | 87.4 | 94.4 | 0.2 |
| 2.5 | 96.9 | 2.2 | 99.1 | 92.6 | 83.1 | 88.9 | 95.9 | 0.2 |
| 3.0 | 98.0 | 2.3 | 100.3 | 92.9 | 84.5 | 90.0 | 97.0 | 0.2 |
| 3.5 | 98.4 | 2.2 | 100.6 | 93.0 | 85.3 | 90.8 | 97.8 | 0.2 |
| 4.0 | 98.5 | 1.9 | 100.4 | 92.6 | 86.4 | 91.2 | 98.2 | 0.2 |
| 4.5 | 98.3 | 1.7 | 100.0 | 92.4 | 86.5 | 91.4 | 98.4 | 0.2 |
| 5.0 | 98.0 | 1.6 | 99.6 | 91.8 | 86.5 | 91.1 | 98.1 | 0.5 |
| 5.5 | 97.1 | 0.9 | 98.0 | 91.0 | 85.6 | 90.2 | 97.2 | 0.4 |
| 6.0 | 95.9 | 0.8 | 96.7 | 89.6 | 84.6 | 89.0 | 96.0 | 0.4 |
| 6.5 | 94.7 | 0.7 | 95.4 | 88.6 | 83.5 | 87.9 | 94.9 | 0.4 |
| 7.0 | 93.6 | 0.0 | 93.6 | 87.9 | 82.2 | 86.6 | 93.6 | 0.1 |
| 7.5 | 92.6 | 0.0 | 92.6 | 87.4 | 81.3 | 85.6 | 92.6 | 0.1 |
| 8.0 | 92.3 | 0.0 | 92.3 | 87.5 | 81.0 | 85.2 | 92.2 | 0.1 |
| 8.5 | 92.0 | 0.0 | 92.0 | 87.2 | 80.9 | 84.9 | 91.9 | 0.1 |
| 9.0 | 91.2 | 0.9 | 92.1 | 86.9 | 79.9 | 84.1 | 91.1 | 0.4 |
| 9.5 | 90.4 | 1.0 | 91.4 | 86.2 | 78.9 | 83.2 | 90.2 | 0.4 |
| 10.0 | 89.9 | 0.0 | 89.9 | 86.4 | 78.3 | 82.7 | 89.7 | 0.1 |
| 10.5 | 89.6 | 1.1 | 90.7 | 85.7 | 77.7 | 82.1 | 89.1 | 0.4 |
| 11.0 | 89.0 | 1.1 | 90.1 | 85.1 | 77.2 | 81.5 | 88.5 | 0.4 |
| 11.5 | 87.9 | 1.2 | 89.1 | 84.9 | 76.0 | 80.6 | 87.6 | 0.4 |
| 12.0 | 87.1 | 1.3 | 88.4 | 84.1 | 75.0 | 79.8 | 86.8 | 1.5 |
| 12.5 | 87.0 | 1.4 | 88.4 | 84.1 | 74.2 | 79.3 | 86.3 | 1.5 |
| 13.0 | 86.9 | 1.5 | 88.4 | 83.8 | 73.8 | 79.0 | 86.0 | 1.5 |
| 13.5 | 87.0 | 1.6 | 88.6 | 84.1 | 73.9 | 79.2 | 86.2 | 1.5 |

MAXIMUM VALUES IN BANDS, PNLC = 99.9

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 83.0 | 89.5 | 78.2 | 81.0 | 86.8 | 80.8 | 86.8 | 80.1 | 80.4 | 79.8 |
| 79.3 | 79.1 | 78.8 | 78.0 | 76.9 | 75.2 | 72.8 | 70.9 | 67.3 | 63.4 |
| 61.0 | 60.0 | 57.4 | 56.6 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 75.1 | 86.6 | 72.0 | 75.1 | 86.8 | 79.7 | 86.1 | 76.7 | 78.9 | 78.6 |
| 78.3 | 76.5 | 76.1 | 76.5 | 74.6 | 73.5 | 71.7 | 69.7 | 66.2 | 62.3 |
| 58.7 | 59.7 | 56.9 | 56.4 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 3.0 | 2.3 | | | | | | |
| PNL | 4.0 | 98.5 | 11.5 | 105.5 | 13.5 | 105.7 | 97.3 | 95.0 |
| PNLT | 3.5 | 100.6 | 10.0 | 106.9 | 13.5 | 107.2 | 98.8 | 97.1 |
| A-LEV | 4.5 | 86.5 | 11.5 | 93.3 | 13.5 | 93.5 | 85.3 | 83.0 |
| N-LEV | 4.5 | 98.4 | 11.5 | 105.2 | 13.5 | 105.3 | 97.2 | 94.9 |

EPNL = 98.9

TSC S-64 #74: 6 DEG. APRCH., 60 KT., 400 FT.

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 87.1 | 2.2 | 89.3 | 84.8 | 74.0 | 79.8 | 86.8 | 0.2 |
| 0.5 | 89.5 | 2.2 | 91.7 | 86.0 | 77.3 | 82.1 | 89.1 | 0.2 |
| 1.0 | 91.2 | 2.2 | 93.4 | 87.6 | 79.2 | 83.9 | 90.9 | 0.2 |
| 1.5 | 91.7 | 2.3 | 94.0 | 88.4 | 79.5 | 84.3 | 91.3 | 0.2 |
| 2.0 | 91.1 | 2.1 | 93.2 | 88.1 | 78.5 | 83.7 | 90.7 | 0.2 |
| 2.5 | 90.7 | 2.2 | 92.9 | 88.3 | 77.8 | 83.3 | 90.3 | 0.2 |
| 3.0 | 90.6 | 2.2 | 92.8 | 88.3 | 77.5 | 83.3 | 90.3 | 0.2 |
| 3.5 | 91.1 | 2.2 | 93.3 | 88.6 | 77.9 | 83.8 | 90.8 | 0.2 |
| 4.0 | 91.7 | 2.1 | 93.8 | 88.6 | 78.5 | 84.3 | 91.3 | 0.2 |
| 4.5 | 92.2 | 2.2 | 94.4 | 89.3 | 78.8 | 84.7 | 91.7 | 0.2 |
| 5.0 | 92.4 | 2.2 | 94.6 | 89.1 | 79.1 | 84.8 | 91.8 | 0.2 |
| 5.5 | 93.0 | 2.1 | 95.1 | 89.5 | 79.5 | 85.2 | 92.2 | 0.2 |
| 6.0 | 94.2 | 2.1 | 96.3 | 90.4 | 80.4 | 86.4 | 93.4 | 2.1 |
| 6.5 | 95.5 | 2.2 | 97.7 | 91.4 | 81.9 | 87.9 | 94.9 | 2.1 |
| 7.0 | 96.9 | 2.0 | 98.9 | 92.3 | 83.0 | 89.1 | 96.1 | 2.1 |
| 7.5 | 98.2 | 2.1 | 100.3 | 93.6 | 84.1 | 90.3 | 97.3 | 0.2 |
| 8.0 | 98.8 | 2.0 | 100.8 | 94.0 | 84.6 | 90.8 | 97.8 | 0.2 |
| 8.5 | 98.6 | 2.0 | 100.6 | 93.7 | 84.3 | 90.6 | 97.6 | 0.2 |
| 9.0 | 99.2 | 2.1 | 101.3 | 94.3 | 84.9 | 91.2 | 98.2 | 0.2 |
| 9.5 | 99.4 | 2.0 | 101.4 | 94.8 | 85.2 | 91.6 | 98.6 | 0.2 |
| 10.0 | 99.4 | 1.7 | 101.1 | 95.2 | 85.4 | 91.8 | 98.8 | 0.2 |
| 10.5 | 99.0 | 1.7 | 100.7 | 94.9 | 85.2 | 91.6 | 98.6 | 0.2 |
| 11.0 | 98.4 | 1.5 | 99.9 | 94.3 | 84.8 | 91.0 | 98.0 | 0.2 |
| 11.5 | 98.2 | 1.2 | 99.4 | 94.1 | 84.5 | 90.7 | 97.7 | 0.2 |
| 12.0 | 98.2 | 1.1 | 99.3 | 94.0 | 84.2 | 90.4 | 97.4 | 0.5 |
| 12.5 | 98.4 | 3.0 | 101.4 | 93.4 | 84.5 | 90.5 | 97.5 | 2.4 |
| 13.0 | 98.0 | 0.9 | 98.9 | 93.6 | 84.3 | 90.4 | 97.4 | 0.2 |
| 13.5 | 98.0 | 0.7 | 98.7 | 93.8 | 84.3 | 90.4 | 97.4 | 0.4 |
| 14.0 | 97.5 | 0.9 | 98.4 | 93.3 | 84.2 | 90.2 | 97.2 | 0.4 |
| 14.5 | 96.8 | 0.8 | 97.6 | 92.5 | 83.5 | 89.4 | 96.4 | 0.4 |
| 15.0 | 95.6 | 1.0 | 96.6 | 91.2 | 82.3 | 88.1 | 95.1 | 1.5 |
| 15.5 | 95.0 | 0.0 | 95.0 | 90.5 | 81.5 | 87.3 | 94.3 | 0.1 |
| 16.0 | 94.0 | 1.0 | 95.0 | 89.7 | 80.6 | 86.5 | 93.5 | 1.5 |
| 16.5 | 93.4 | 0.0 | 93.4 | 89.3 | 80.1 | 85.9 | 92.9 | 0.1 |
| 17.0 | 92.6 | 1.1 | 93.7 | 88.5 | 79.4 | 85.0 | 92.0 | 1.5 |
| 17.5 | 91.8 | 0.0 | 91.8 | 88.2 | 78.5 | 84.1 | 91.1 | 0.1 |
| 18.0 | 90.4 | 0.0 | 90.4 | 87.1 | 76.9 | 82.7 | 89.7 | 0.1 |
| 18.5 | 88.9 | 1.1 | 90.0 | 86.4 | 75.6 | 81.3 | 88.3 | 1.5 |
| 19.0 | 88.1 | 0.0 | 88.1 | 86.1 | 75.0 | 80.7 | 87.7 | 0.1 |
| 19.5 | 88.1 | 0.0 | 88.1 | 86.2 | 75.2 | 80.6 | 87.6 | 0.1 |
| 20.0 | 88.1 | 2.0 | 90.1 | 85.4 | 75.3 | 80.4 | 87.4 | 1.5 |
| 20.5 | 87.5 | 2.0 | 89.5 | 85.1 | 74.7 | 79.9 | 86.9 | 1.5 |

MAXIMUM VALUES IN BANDS, PNLC =101.6

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 83.1 | 87.0 | 76.7 | 85.7 | 89.5 | 90.0 | 90.7 | 85.4 | 82.2 | 80.9 |
| 77.6 | 75.5 | 75.0 | 74.2 | 73.8 | 71.1 | 69.7 | 67.2 | 64.5 | 62.2 |
| 64.4 | 60.1 | 58.9 | 76.3 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 75.8 | 85.1 | 70.6 | 74.2 | 83.1 | 89.0 | 90.3 | 83.5 | 78.7 | 80.9 |
| 76.1 | 74.0 | 73.4 | 72.3 | 70.5 | 69.7 | 67.1 | 65.5 | 62.6 | 59.3 |
| 60.1 | 57.3 | 55.4 | 56.1 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 12.5 | 2.0 | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PNL | 9.5 | 99.4 | 18.5 | 108.7 | 20.5 | 108.8 | 100.3 | 97.7 |
| PNLT | 9.5 | 101.4 | 18.0 | 110.3 | 20.5 | 110.4 | 102.2 | 99.7 |
| A-LEV | 10.0 | 85.4 | 19.0 | 95.0 | 20.5 | 95.1 | 86.4 | 83.7 |
| N-LEV | 10.0 | 98.8 | 18.5 | 108.0 | 20.5 | 108.1 | 99.7 | 97.1 |

EPNL =100.3

TSC S-64 #78: FLYOVER, 95 KT., 500 FT.

| T | PNL | P.T. | PNLT | DA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 90.2 | 1.5 | 91.7 | 89.9 | 75.0 | 82.6 | 89.6 | 0.5 |
| 0.5 | 92.3 | 1.6 | 93.9 | 90.3 | 78.6 | 84.8 | 91.8 | 0.5 |
| 1.0 | 95.7 | 1.8 | 97.5 | 91.7 | 83.0 | 88.1 | 95.1 | 0.5 |
| 1.5 | 97.2 | 1.8 | 99.0 | 92.8 | 84.8 | 89.6 | 96.6 | 0.2 |
| 2.0 | 97.2 | 1.9 | 99.1 | 92.6 | 85.5 | 89.9 | 96.9 | 0.2 |
| 2.5 | 98.5 | 2.1 | 100.6 | 93.4 | 86.6 | 91.1 | 98.1 | 0.2 |
| 3.0 | 99.7 | 2.3 | 102.0 | 94.4 | 87.1 | 92.1 | 99.1 | 0.2 |
| 3.5 | 100.9 | 2.5 | 103.4 | 95.3 | 87.4 | 92.8 | 99.8 | 0.2 |
| 4.0 | 100.7 | 2.4 | 103.1 | 94.9 | 87.1 | 92.6 | 99.6 | 0.2 |
| 4.5 | 99.9 | 2.3 | 102.2 | 93.9 | 86.5 | 91.9 | 98.9 | 0.2 |
| 5.0 | 99.0 | 1.9 | 100.9 | 93.2 | 86.1 | 91.4 | 98.4 | 0.2 |
| 5.5 | 98.2 | 1.7 | 99.9 | 92.9 | 85.5 | 90.9 | 97.9 | 0.2 |
| 6.0 | 96.9 | 1.7 | 98.6 | 91.5 | 84.7 | 89.7 | 96.7 | 0.4 |
| 6.5 | 95.5 | 1.7 | 97.2 | 90.1 | 83.5 | 88.4 | 95.4 | 0.4 |
| 7.0 | 94.4 | 1.5 | 95.9 | 88.8 | 82.6 | 87.4 | 94.4 | 0.4 |
| 7.5 | 93.4 | 0.6 | 94.0 | 87.4 | 81.5 | 86.2 | 93.2 | 0.4 |
| 8.0 | 92.6 | 0.0 | 92.6 | 86.4 | 80.7 | 85.3 | 92.3 | 0.1 |
| 8.5 | 91.8 | 0.0 | 91.8 | 85.7 | 79.9 | 84.4 | 91.4 | 0.1 |
| 9.0 | 90.8 | 0.0 | 90.8 | 85.5 | 79.2 | 83.6 | 90.6 | 0.1 |
| 9.5 | 89.8 | 0.7 | 90.5 | 85.3 | 77.9 | 82.5 | 89.5 | 0.4 |
| 10.0 | 89.4 | 1.0 | 90.4 | 85.5 | 77.4 | 82.1 | 89.1 | 0.4 |
| 10.5 | 89.1 | 1.4 | 90.5 | 85.3 | 77.4 | 81.9 | 88.9 | 0.4 |
| 11.0 | 88.7 | 1.5 | 90.2 | 85.0 | 77.2 | 81.6 | 88.6 | 0.4 |
| 11.5 | 87.7 | 1.5 | 89.2 | 84.2 | 75.9 | 80.5 | 87.5 | 0.4 |
| 12.0 | 87.4 | 1.5 | 88.9 | 83.8 | 75.6 | 80.0 | 87.0 | 0.4 |
| 12.5 | 86.1 | 1.4 | 87.5 | 83.0 | 74.0 | 78.7 | 85.7 | 1.5 |
| 13.0 | 84.6 | 1.3 | 85.9 | 82.0 | 72.3 | 77.3 | 84.3 | 1.5 |

MAXIMUM VALUES IN BANDS, PNLC =102.2

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 83.4 | 88.6 | 75.6 | 82.7 | 87.8 | 81.8 | 91.5 | 86.3 | 84.7 | 82.6 |
| 82.1 | 80.1 | 77.9 | 77.7 | 75.5 | 74.3 | 72.2 | 69.7 | 66.5 | 62.2 |
| 60.8 | 64.7 | 57.3 | 56.7 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 74.8 | 88.0 | 71.6 | 69.5 | 83.8 | 78.2 | 91.5 | 85.3 | 80.3 | 82.6 |
| 80.0 | 79.6 | 77.4 | 76.9 | 74.0 | 73.0 | 70.6 | 68.6 | 65.1 | 60.6 |
| 57.8 | 63.7 | 56.7 | 56.5 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 3.5 | 2.5 | | | | | | |
| PNL | 3.5 | 100.9 | 9.0 | 106.9 | 13.0 | 107.2 | 98.7 | 97.3 |
| PNLT | 3.5 | 103.4 | 8.0 | 108.8 | 13.0 | 109.1 | 100.7 | 99.8 |
| A-LEV | 3.5 | 87.4 | 10.0 | 94.3 | 13.0 | 94.5 | 85.6 | 83.8 |
| N-LEV | 3.5 | 99.8 | 9.5 | 106.4 | 13.0 | 106.6 | 97.8 | 96.2 |

EPNL = 98.8

# APPENDIX C

## Columbia Psychoacoustics Laboratory
## Data Set

COL. UNIV. PSYCH. LAB. : HELICOPTER #1

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -17.7 | .00 | -15.9 | -8.4 | 3.89 | 1.0 |
| 1.0 | -17.0 | .00 | -17.2 | -7.9 | 3.50 | 0.6 |
| 1.5 | -13.3 | .00 | -16.7 | -7.2 | 2.25 | -0.8 |
| 2.0 | -12.2 | .00 | -23.3 | -6.4 | 2.29 | -0.8 |
| 2.5 | -8.7 | .07 | -11.1 | -5.8 | 2.49 | -0.6 |
| 3.0 | -4.7 | .08 | -11.0 | -4.5 | 2.90 | 0.0 |
| 3.5 | 0.0 | .00 | -21.1 | -0.6 | 3.08 | 0.1 |
| 4.0 | -1.9 | .08 | -10.7 | 0.0 | 2.72 | -0.3 |
| 4.5 | -3.8 | .00 | -18.7 | -4.8 | 3.50 | 0.6 |
| 5.0 | -8.1 | .00 | -15.4 | -10.0 | 3.41 | 0.5 |
| 5.5 | -12.4 | .00 | -17.4 | -15.4 | 3.38 | 0.4 |

COL. UNIV. PSYCH. LAB. HELICOPTER #2

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -19.4 | .07 | -11.4 | -8.4 | 2.49 | -0.6 |
| 1.0 | -18.2 | .00 | -14.9 | -8.4 | 2.57 | -0.5 |
| 1.5 | -17.7 | .00 | -18.1 | -7.8 | 2.57 | -0.5 |
| 2.0 | -17.8 | .00 | -15.6 | -7.8 | 2.67 | -0.4 |
| 2.5 | -16.5 | .00 | -23.1 | -7.8 | 2.57 | -0.5 |
| 3.0 | -14.8 | .00 | -20.5 | -7.5 | 2.36 | -0.7 |
| 3.5 | -13.8 | .00 | -19.2 | -7.6 | 2.13 | -1.0 |
| 4.0 | -13.1 | .00 | -17.8 | -6.8 | 2.13 | -1.0 |
| 4.5 | -9.9 | .00 | -12.4 | -4.8 | 2.10 | -1.0 |
| 5.0 | -10.3 | .00 | -15.9 | -4.9 | 2.25 | -0.9 |
| 5.5 | -11.0 | .00 | -15.9 | -4.8 | 2.14 | -1.0 |
| 6.0 | -9.9 | .00 | -17.0 | -3.0 | 2.65 | -0.4 |
| 6.5 | -7.2 | .12 | -8.9 | -1.5 | 3.10 | 0.1 |
| 7.0 | -7.3 | .14 | -8.4 | -1.3 | 2.49 | -0.6 |
| 7.5 | -3.8 | .00 | -14.7 | -1.8 | 2.56 | -0.5 |
| 8.0 | 0.0 | .00 | -18.7 | 0.0 | 2.80 | -0.2 |
| 8.5 | -1.4 | .00 | -14.6 | -1.4 | 2.93 | 0.0 |
| 9.0 | -4.5 | .00 | -25.5 | -5.4 | 2.78 | -0.2 |
| 9.5 | -7.2 | .00 | -13.4 | -9.5 | 3.24 | 0.3 |
| 10.0 | -11.6 | .00 | -13.9 | -12.7 | 3.25 | 0.3 |

COL. UNIV. PSYCH. LAB. : HELICOPTER #3

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -14.1 | .08 | -10.9 | -14.2 | 2.21 | -0.9 |
| 1.0 | -13.4 | .00 | -20.8 | -11.9 | 1.98 | -1.2 |
| 1.5 | -10.2 | .00 | -20.0 | -9.9 | 2.38 | -0.7 |
| 2.0 | -8.3 | .00 | -18.5 | -8.4 | 3.05 | 0.1 |
| 2.5 | -7.2 | .00 | -17.2 | -7.1 | 3.14 | 0.2 |
| 3.0 | -6.9 | .00 | -13.7 | -5.9 | 2.76 | -0.3 |
| 3.5 | -4.4 | .00 | -15.1 | -3.8 | 2.34 | -0.8 |
| 4.0 | -2.6 | .00 | -16.8 | -2.3 | 2.59 | -0.5 |
| 4.5 | -0.2 | .00 | -21.5 | -0.7 | 2.73 | -0.3 |
| 5.0 | -1.8 | .00 | -18.0 | -0.6 | 2.83 | -0.2 |
| 5.5 | -1.2 | .00 | -19.2 | 0.0 | 3.47 | 0.5 |
| 6.0 | 0.0 | .00 | -14.0 | 0.0 | 4.28 | 1.5 |
| 6.5 | -0.8 | .00 | -16.3 | 0.0 | 3.35 | 0.4 |
| 7.0 | 0.0 | .09 | -10.2 | -1.2 | 2.50 | -0.6 |
| 7.5 | -1.7 | .00 | -15.4 | -3.5 | 3.04 | 0.1 |
| 8.0 | 0.0 | .00 | -19.3 | -4.7 | 3.20 | 0.2 |
| 8.5 | -0.4 | .00 | -13.1 | -3.4 | 2.72 | -0.3 |
| 9.0 | -3.0 | .06 | -12.0 | -6.4 | 3.59 | 0.7 |
| 9.5 | -7.3 | .00 | -13.7 | -10.8 | 2.82 | -0.2 |
| 10.0 | -11.8 | .00 | -13.3 | -14.2 | 3.28 | 0.3 |
| 10.5 | -17.1 | .24 | -6.1 | -20.4 | 4.30 | 1.5 |

COL. UNIV. PSYCH. LAB. HELICOPTER #1

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 75.7 | | | | | | |
| 1.0 | 78.1 | | | | | | |
| 1.5 | 80.6 | | | | | | |
| 2.0 | 81.6 | | | | | | |
| 2.5 | 86.7 | | | | | | |
| 3.0 | 91.5 | | | | | | |
| 3.5 | 92.4 | | | | | | |
| 4.0 | 89.9 | | | | | | |
| 4.5 | 88.2 | | | | | | |
| 5.0 | 83.9 | | | | | | |
| 5.5 | 79.7 | | | | | | |

COL. UNIV. PSYCH. LAB. HELICOPTER #2

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 71.7 | | | | | | |
| 1.0 | 74.3 | | | | | | |
| 1.5 | 73.5 | | | | | | |
| 2.0 | 73.7 | | | | | | |
| 2.5 | 73.4 | | | | | | |
| 3.0 | 77.8 | | | | | | |
| 3.5 | 77.6 | | | | | | |
| 4.0 | 78.0 | | | | | | |
| 4.5 | 81.7 | | | | | | |
| 5.0 | 80.9 | | | | | | |
| 5.5 | 79.9 | | | | | | |
| 6.0 | 81.7 | | | | | | |
| 6.5 | 88.3 | | | | | | |
| 7.0 | 86.8 | | | | | | |
| 7.5 | 89.7 | | | | | | |
| 8.0 | 92.3 | | | | | | |
| 8.5 | 90.0 | | | | | | |
| 9.0 | 87.7 | | | | | | |
| 9.5 | 83.6 | | | | | | |
| 10.0 | 80.3 | | | | | | |

COL. UNIV. PSYCH. LAB. HELICOPTER #3

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 81.0 | | | | | | |
| 1.0 | 80.8 | | | | | | |
| 1.5 | 81.4 | | | | | | |
| 2.0 | 82.1 | | | | | | |
| 2.5 | 81.2 | | | | | | |
| 3.0 | 83.3 | | | | | | |
| 3.5 | 84.3 | | | | | | |
| 4.0 | 87.1 | | | | | | |
| 4.5 | 89.5 | | | | | | |
| 5.0 | 88.6 | | | | | | |
| 5.5 | 88.9 | | | | | | |
| 6.0 | 90.0 | | | | | | |
| 6.5 | 89.5 | | | | | | |
| 7.0 | 91.4 | | | | | | |
| 7.5 | 89.6 | | | | | | |
| 8.0 | 90.0 | | | | | | |
| 8.5 | 89.3 | | | | | | |
| 9.0 | 87.6 | | | | | | |
| 9.5 | 83.3 | | | | | | |
| 10.0 | 78.1 | | | | | | |
| 10.5 | 74.4 | | | | | | |

COL. UNIV. PSYCH. LAB. HELICOPTER 1

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 75.0 | 1.5 | 76.5 | 75.1 | 58.6 | 68.2 | 75.2 | 0.4 |
| 0.5 | 76.3 | 0.8 | 77.1 | 75.8 | 60.3 | 69.6 | 76.6 | 0.4 |
| 1.0 | 76.9 | 1.0 | 77.9 | 76.5 | 61.7 | 70.7 | 77.7 | 1.4 |
| 1.5 | 79.1 | 1.1 | 80.2 | 77.6 | 64.6 | 72.9 | 79.9 | 0.5 |
| 2.0 | 80.9 | 1.2 | 82.1 | 78.0 | 66.2 | 74.3 | 81.3 | 0.3 |
| 2.5 | 84.3 | 0.9 | 85.2 | 78.0 | 69.5 | 77.6 | 84.6 | 0.3 |
| 3.0 | 88.4 | 1.0 | 89.4 | 79.6 | 73.5 | 81.7 | 88.7 | 0.3 |
| 3.5 | 92.5 | 0.6 | 93.1 | 83.2 | 77.5 | 85.4 | 92.4 | 0.7 |
| 4.0 | 92.6 | 0.6 | 93.2 | 84.3 | 77.5 | 85.3 | 92.3 | 0.7 |
| 4.5 | 91.5 | 0.7 | 92.2 | 83.2 | 76.8 | 84.1 | 91.1 | 1.0 |
| 5.0 | 89.5 | 0.6 | 90.1 | 81.3 | 75.1 | 82.1 | 89.1 | 0.5 |
| 5.5 | 87.3 | 0.6 | 87.9 | 79.2 | 73.1 | 80.0 | 87.0 | 0.5 |

MAXIMUM VALUES IN BANDS, PNLC = 93.1

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 77.0 | 72.5 | 75.0 | 72.9 | 76.9 | 75.1 | 74.3 | 64.9 | 68.4 | 70.3 |
| 67.1 | 65.4 | 67.7 | 64.7 | 60.8 | 60.7 | 64.5 | 65.6 | 65.6 | 65.9 |
| 65.8 | 69.0 | 67.0 | 65.4 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77.0 | 72.5 | 70.3 | 72.9 | 76.9 | 75.1 | 74.3 | 63.6 | 67.2 | 67.1 |
| 67.1 | 65.1 | 67.7 | 64.2 | 60.5 | 60.6 | 64.5 | 65.3 | 65.4 | 65.3 |
| 64.9 | 68.5 | 67.0 | 65.3 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 0.0 | 1.5 | | | | | | |
| PNL | 4.0 | 92.6 | 3.5 | 95.4 | 5.5 | 95.6 | 86.3 | 85.2 |
| PNLT | 4.0 | 93.2 | 3.5 | 96.1 | 5.5 | 96.3 | 86.9 | 85.8 |
| A-LEV | 3.5 | 77.5 | 3.5 | 80.6 | 5.5 | 80.7 | 71.2 | 70.1 |
| N-LEV | 3.5 | 92.4 | 3.5 | 95.3 | 5.5 | 95.4 | 86.1 | 85.0 |

EPNL = 86.1

COL. UNIV. PSYCH. LAB. : HELICOPTER 2

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 72.9 | 1.4 | 74.3 | 74.9 | 56.3 | 67.3 | 74.3 | 0.2 |
| 0.5 | 74.4 | 1.7 | 76.1 | 76.8 | 57.6 | 68.9 | 75.9 | 0.2 |
| 1.0 | 76.2 | 1.7 | 77.9 | 77.9 | 59.1 | 70.2 | 77.2 | 0.2 |
| 1.5 | 77.0 | 1.7 | 78.7 | 78.6 | 59.9 | 70.9 | 77.9 | 0.2 |
| 2.0 | 77.2 | 1.5 | 78.7 | 78.8 | 60.2 | 71.1 | 78.1 | 0.2 |
| 2.5 | 77.9 | 1.5 | 79.4 | 79.2 | 61.1 | 71.7 | 78.7 | 0.7 |
| 3.0 | 78.9 | 1.0 | 79.9 | 79.6 | 62.7 | 72.5 | 79.5 | 0.7 |
| 3.5 | 79.3 | 0.5 | 79.8 | 79.8 | 64.0 | 73.0 | 80.0 | 0.2 |
| 4.0 | 80.1 | 0.0 | 80.1 | 80.4 | 65.0 | 73.8 | 80.8 | 0.1 |
| 4.5 | 82.5 | 0.6 | 83.1 | 82.2 | 67.4 | 75.9 | 82.9 | 0.7 |
| 5.0 | 83.0 | 1.3 | 84.3 | 82.9 | 68.0 | 76.5 | 83.5 | 0.3 |
| 5.5 | 83.4 | 1.6 | 85.0 | 83.2 | 68.1 | 76.8 | 83.8 | 0.3 |
| 6.0 | 84.0 | 1.4 | 85.4 | 83.9 | 68.6 | 77.5 | 84.5 | 1.4 |
| 6.5 | 86.5 | 1.2 | 87.7 | 84.9 | 70.4 | 78.6 | 85.6 | 1.4 |
| 7.0 | 87.1 | 1.2 | 88.3 | 84.7 | 71.1 | 78.9 | 85.9 | 0.2 |
| 7.5 | 89.2 | 1.2 | 90.4 | 84.5 | 74.1 | 81.7 | 88.7 | 0.2 |
| 8.0 | 92.8 | 0.7 | 93.5 | 86.3 | 77.6 | 85.4 | 92.4 | 0.2 |
| 8.5 | 92.9 | 0.8 | 93.7 | 87.0 | 77.8 | 85.6 | 92.6 | 0.5 |
| 9.0 | 91.7 | 0.8 | 92.5 | 85.7 | 76.8 | 84.3 | 91.3 | 0.5 |
| 9.5 | 89.8 | 0.8 | 90.6 | 83.8 | 75.2 | 82.5 | 89.5 | 0.5 |
| 10.0 | 87.6 | 0.8 | 88.4 | 81.8 | 73.2 | 80.4 | 87.4 | 0.5 |

MAXIMUM VALUES IN BANDS, PNLC = 93.6

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 75.2 | 79.7 | 79.6 | 81.1 | 82.1 | 79.9 | 77.1 | 69.7 | 69.1 | 69.2 |
| 68.4 | 65.7 | 66.9 | 64.3 | 60.6 | 59.5 | 63.9 | 64.4 | 65.3 | 64.4 |
| 65.0 | 67.9 | 66.6 | 64.8 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 75.1 | 76.0 | 72.5 | 76.1 | 82.1 | 79.9 | 76.4 | 68.8 | 69.1 | 68.8 |
| 68.4 | 65.3 | 66.7 | 63.3 | 60.1 | 59.5 | 63.9 | 64.4 | 64.6 | 63.8 |
| 64.0 | 67.9 | 66.6 | 64.8 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 0.5 | 1.7 | | | | | | |
| PNL | 8.5 | 92.9 | 5.5 | 96.5 | 10.0 | 96.7 | 88.5 | 88.1 |
| PNLT | 8.5 | 93.7 | 5.5 | 97.4 | 10.0 | 97.7 | 89.3 | 88.9 |
| A-LEV | 8.5 | 77.8 | 5.5 | 81.4 | 9.5 | 81.6 | 73.4 | 72.8 |
| N-LEV | 8.5 | 92.6 | 6.0 | 96.2 | 10.0 | 96.5 | 88.6 | 87.8 |

EPNL = 87.4

COL. UNIV. PSYCH. LAB. : HELICOPTER 3

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 69.7 | 1.4 | 71.1 | 71.6 | 56.6 | 65.1 | 72.1 | 1.3 |
| 0.5 | 76.2 | 1.9 | 78.1 | 76.0 | 61.5 | 70.0 | 77.0 | 1.7 |
| 1.0 | 78.9 | 1.4 | 80.3 | 79.0 | 63.5 | 72.5 | 79.5 | 1.7 |
| 1.5 | 81.4 | 1.6 | 83.0 | 81.1 | 66.3 | 74.8 | 81.8 | 1.7 |
| 2.0 | 84.0 | 1.4 | 85.4 | 83.0 | 68.3 | 76.8 | 83.8 | 1.7 |
| 2.5 | 85.5 | 1.1 | 86.6 | 84.4 | 69.9 | 78.3 | 85.3 | 0.3 |
| 3.0 | 87.9 | 6.2 | 94.1 | 85.8 | 72.1 | 81.2 | 88.2 | 2.1 |
| 3.5 | 88.3 | 0.8 | 89.1 | 87.2 | 72.3 | 81.0 | 88.0 | 0.5 |
| 4.0 | 90.7 | 1.1 | 91.8 | 88.9 | 74.1 | 83.0 | 90.0 | 0.5 |
| 4.5 | 92.5 | 1.2 | 93.7 | 90.3 | 76.1 | 84.6 | 91.6 | 0.3 |
| 5.0 | 92.6 | 1.2 | 93.8 | 90.8 | 76.2 | 84.8 | 91.8 | 0.3 |
| 5.5 | 92.2 | 1.2 | 93.4 | 91.0 | 76.6 | 84.8 | 91.8 | 1.3 |
| 6.0 | 92.8 | 1.3 | 94.1 | 91.1 | 77.4 | 85.0 | 92.0 | 1.3 |
| 6.5 | 92.4 | 1.2 | 93.6 | 90.6 | 77.3 | 84.6 | 91.6 | 1.3 |
| 7.0 | 91.9 | 1.9 | 93.8 | 89.8 | 77.6 | 84.2 | 91.2 | 1.3 |
| 7.5 | 91.5 | 1.2 | 92.7 | 88.4 | 77.2 | 83.8 | 90.8 | 1.3 |
| 8.0 | 92.4 | 1.0 | 93.4 | 87.9 | 77.7 | 84.7 | 91.7 | 0.2 |
| 8.5 | 93.3 | 0.8 | 94.1 | 88.7 | 77.9 | 85.3 | 92.3 | 0.5 |
| 9.0 | 92.2 | 0.8 | 93.0 | 87.8 | 76.8 | 84.3 | 91.3 | 0.5 |
| 9.5 | 90.2 | 0.8 | 91.0 | 85.8 | 75.1 | 82.4 | 89.4 | 0.5 |
| 10.0 | 88.1 | 0.8 | 88.9 | 83.9 | 73.0 | 80.3 | 87.3 | 0.5 |
| 10.5 | 85.6 | 0.8 | 86.4 | 81.7 | 70.8 | 78.0 | 85.0 | 0.5 |

MAXIMUM VALUES IN BANDS, PNLC = 96.0

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 80.1 | 84.9 | 85.1 | 86.4 | 87.0 | 80.8 | 79.2 | 71.3 | 71.8 | 73.0 |
| 69.7 | 70.8 | 72.6 | 66.5 | 60.8 | 60.2 | 62.4 | 62.4 | 61.9 | 61.3 |
| 66.1 | 64.8 | 64.2 | 62.6 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72.6 | 69.8 | 80.0 | 79.5 | 80.5 | 73.5 | 70.6 | 63.2 | 64.2 | 62.2 |
| 59.3 | 59.9 | 60.6 | 58.8 | 51.8 | 49.3 | 51.9 | 51.0 | 49.9 | 49.1 |
| 66.1 | 45.7 | 43.8 | 44.7 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 3.0 | 6.2 | | | | | | |
| PNL | 8.5 | 93.3 | 9.0 | 100.5 | 10.5 | 100.5 | 91.1 | 88.7 |
| PNLT | 3.0 | 94.1 | 9.0 | 101.9 | 10.5 | 101.9 | 91.9 | 89.5 |
| A-LEV | 8.5 | 77.9 | 9.0 | 85.1 | 10.5 | 85.1 | 75.7 | 73.3 |
| N-LEV | 8.5 | 92.3 | 9.0 | 99.8 | 10.5 | 99.8 | 90.1 | 87.7 |

EPNL = 91.9

# APPENDIX D

## Boeing Vertol Data Set

COMPARISON OF BOEING VERTOL AND BBN ANALYSES

| Event | EPNL | | | PNLT | | | Max rms A level dB | Peak A level dB | Peak-rms dB |
|---|---|---|---|---|---|---|---|---|---|
| | Vertol dB | BBN dB | Δ dB | Vertol dB | BBN dB | Δ dB | | | |
| CH47A | 103.5 | 98.2 | 5.3 | 107.5 | 102.2 | 5.3 | 89.1 | 104.0 | 13.9 |
| CH47A with high aft pylon | 95.0 | 90.7 | 4.3 | 99.5 | 94.5 | 5.0 | 76.4 | 87.2 | 10.8 |
| 347 | 89.5 | 85.1 | 4.4 | 95.0 | 89.1 | 5.9 | 76.8 | 87.3 | 10.5 |

CH-47A AT 110 KNOTS

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -17.1 | 7.17 | 8.6 | -13.5 | 3.41 | 0.5 |
| 1.0 | -15.7 | 6.40 | 8.1 | -12.2 | 3.53 | 0.6 |
| 1.5 | -10.0 | 24.50 | 13.9 | -11.2 | 11.22 | 9.4 |
| 2.0 | -11.7 | 19.60 | 12.9 | -12.1 | 8.95 | 6.8 |
| 2.5 | -11.4 | 22.71 | 13.6 | -11.0 | 9.35 | 7.3 |
| 3.0 | -11.2 | 14.54 | 11.6 | -10.9 | 9.55 | 7.5 |
| 3.5 | -7.3 | 38.60 | 15.9 | -9.4 | 13.42 | 11.9 |
| 4.0 | -3.5 | 30.18 | 14.8 | -7.1 | 12.87 | 11.3 |
| 4.5 | -5.3 | 22.87 | 13.6 | -8.1 | 9.42 | 7.3 |
| 5.0 | -4.1 | 13.62 | 11.3 | -5.2 | 7.38 | 5.0 |
| 5.5 | -5.0 | 6.86 | 8.4 | -4.7 | 5.64 | 3.0 |
| 6.0 | -1.3 | 14.95 | 11.7 | -3.6 | 10.43 | 8.5 |
| 6.5 | -0.5 | 11.99 | 10.8 | -2.4 | 9.15 | 7.0 |
| 7.0 | -1.0 | 16.02 | 12.0 | -2.3 | 9.61 | 7.6 |
| 7.5 | -1.0 | 9.96 | 10.0 | -1.7 | 8.01 | 5.7 |
| 8.0 | 0.0 | 12.51 | 11.0 | 0.0 | 8.39 | 6.2 |
| 8.5 | -1.1 | 9.83 | 9.9 | -0.3 | 6.24 | 3.7 |
| 9.0 | -3.3 | 2.12 | 3.3 | -1.5 | 4.83 | 2.1 |
| 9.5 | -3.8 | 1.83 | 2.6 | -2.3 | 4.05 | 1.2 |
| 10.0 | -7.0 | 1.20 | 0.8 | -4.1 | 3.18 | 0.2 |
| 10.5 | -7.5 | 1.57 | 2.0 | -5.5 | 3.65 | 0.8 |
| 11.0 | -9.0 | 1.47 | 1.7 | -7.2 | 3.68 | 0.8 |
| 11.5 | -10.3 | 4.04 | 6.1 | -7.8 | 3.88 | 1.0 |
| 12.0 | -33.2 | .00 | -23.7 | -26.0 | 2.96 | 0.0 |
| 12.5 | -33.1 | .00 | -23.3 | -28.7 | 2.92 | 0.0 |

1 HAP AT 120 KNOTS

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -12.0 | .34 | -4.6 | -13.2 | 2.85 | -0.2 |
| 1.0 | -11.9 | .39 | -4.0 | -12.2 | 2.72 | -0.3 |
| 1.5 | -10.6 | .48 | -3.1 | -11.3 | 3.15 | 0.2 |
| 2.0 | -9.6 | .44 | -3.6 | -10.9 | 3.22 | 0.3 |
| 2.5 | -9.4 | .46 | -3.3 | -10.5 | 3.02 | 0.0 |
| 3.0 | -8.5 | .68 | -1.6 | -9.8 | 2.92 | 0.0 |
| 3.5 | -8.1 | .45 | -3.4 | -9.1 | 2.75 | -0.3 |
| 4.0 | -8.3 | .38 | -4.2 | -8.6 | 2.64 | -0.4 |
| 4.5 | -8.1 | .30 | -5.1 | -8.2 | 2.34 | -0.8 |
| 5.0 | -6.1 | .48 | -3.2 | -6.5 | 2.29 | -0.8 |
| 5.5 | -5.1 | .22 | -6.5 | -5.7 | 2.11 | -1.0 |
| 6.0 | -4.8 | .66 | -1.8 | -4.6 | 2.15 | -1.0 |
| 6.5 | -3.5 | 1.09 | 0.4 | -4.0 | 2.51 | -0.5 |
| 7.0 | -2.0 | .31 | -5.0 | -2.8 | 2.84 | -0.2 |
| 7.5 | -2.1 | .58 | -2.3 | -1.9 | 3.87 | 1.0 |
| 8.0 | -1.6 | 1.68 | 2.3 | -2.0 | 4.62 | 1.9 |
| 8.5 | -2.8 | 1.27 | 1.0 | -3.2 | 2.71 | -0.3 |
| 9.0 | -0.7 | .12 | -9.0 | 0.0 | 2.29 | -0.8 |
| 9.5 | -0.9 | .06 | -11.8 | -4.1 | 2.33 | -0.8 |
| 10.0 | 0.0 | .00 | -13.5 | -5.2 | 2.60 | -0.4 |
| 10.5 | -1.2 | .00 | -15.1 | -4.6 | 2.39 | -0.7 |
| 11.0 | -1.3 | .00 | -16.5 | -9.6 | 3.42 | 0.5 |
| 11.5 | -1.4 | .00 | -16.6 | -7.9 | 2.64 | -0.4 |
| 12.0 | -3.5 | .21 | -6.7 | -11.8 | 2.77 | -0.3 |
| 12.5 | -6.9 | .00 | -14.5 | -14.0 | 2.37 | -0.7 |
| 13.0 | -9.3 | .00 | -16.0 | -15.2 | 2.65 | -0.4 |
| 13.5 | -16.7 | 4.24 | 6.3 | -21.6 | 6.50 | 4.0 |

347 AT 120 KNOTS

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -12.7 | .00 | -19.4 | -7.6 | 2.46 | -0.6 |
| 1.0 | -9.7 | .00 | -16.2 | -9.0 | 2.67 | -0.4 |
| 1.5 | -7.6 | .00 | -18.2 | -8.1 | 2.77 | -0.3 |
| 2.0 | -6.0 | .00 | -15.7 | -6.9 | 2.90 | 0.0 |
| 2.5 | -3.5 | .00 | -17.8 | -3.9 | 3.10 | 0.1 |
| 3.0 | -1.9 | .00 | -14.6 | -1.8 | 2.73 | -0.3 |
| 3.5 | -0.8 | .00 | -23.8 | -0.3 | 2.47 | -0.6 |
| 4.0 | 0.0 | .00 | -22.5 | -0.2 | 2.95 | 0.0 |
| 4.5 | 0.0 | .00 | -20.0 | 0.0 | 2.81 | -0.2 |
| 5.0 | -0.9 | .00 | -19.2 | -3.6 | 3.08 | 0.1 |
| 5.5 | -3.3 | .00 | -14.2 | -6.3 | 3.49 | 0.6 |
| 6.0 | -5.6 | .07 | -11.0 | -7.6 | 2.86 | -0.2 |
| 6.5 | -8.4 | .00 | -18.3 | -8.8 | 3.10 | 0.1 |
| 7.0 | -9.9 | .00 | -18.0 | -10.4 | 2.91 | 0.0 |
| 7.5 | -12.5 | .00 | -15.7 | -13.1 | 3.11 | 0.1 |
| 8.0 | -13.5 | .00 | -16.5 | -14.0 | 2.73 | -0.3 |

CH-47A AT 110 KT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 91.1 | | | | | | |
| 1.0 | 91.6 | | | | | | |
| 1.5 | 100.4 | | | | | | |
| 2.0 | 97.9 | | | | | | |
| 2.5 | 99.5 | | | | | | |
| 3.0 | 97.7 | | | | | | |
| 3.5 | 101.7 | | | | | | |
| 4.0 | 105.8 | | | | | | |
| 4.5 | 103.2 | | | | | | |
| 5.0 | 101.8 | | | | | | |
| 5.5 | 100.6 | | | | | | |
| 6.0 | 103.6 | | | | | | |
| 6.5 | 103.7 | | | | | | |
| 7.0 | 103.2 | | | | | | |
| 7.5 | 103.3 | | | | | | |
| 8.0 | 104.0 | | | | | | |
| 8.5 | 104.0 | | | | | | |
| 9.0 | 100.3 | | | | | | |
| 9.5 | 98.2 | | | | | | |
| 10.0 | 97.1 | | | | | | |
| 10.5 | 95.6 | | | | | | |
| 11.0 | 96.6 | | | | | | |
| 11.5 | 96.0 | | | | | | |
| 12.0 | 70.3 | | | | | | |
| 12.5 | 68.4 | | | | | | |
| 13.0 | 68.7 | | | | | | |

1 HAP AT 120 KT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 75.7 | | | | | | |
| 1.0 | 75.3 | | | | | | |
| 1.5 | 76.3 | | | | | | |
| 2.0 | 77.0 | | | | | | |
| 2.5 | 78.6 | | | | | | |
| 3.0 | 79.6 | | | | | | |
| 3.5 | 79.3 | | | | | | |
| 4.0 | 78.8 | | | | | | |
| 4.5 | 78.2 | | | | | | |
| 5.0 | 81.3 | | | | | | |
| 5.5 | 82.5 | | | | | | |
| 6.0 | 84.0 | | | | | | |
| 6.5 | 83.9 | | | | | | |
| 7.0 | 84.7 | | | | | | |
| 7.5 | 84.9 | | | | | | |
| 8.0 | 85.1 | | | | | | |
| 8.5 | 85.4 | | | | | | |
| 9.0 | 87.2 | | | | | | |
| 9.5 | 86.4 | | | | | | |
| 10.0 | 87.0 | | | | | | |
| 10.5 | 85.7 | | | | | | |
| 11.0 | 85.6 | | | | | | |
| 11.5 | 85.0 | | | | | | |
| 12.0 | 85.2 | | | | | | |
| 12.5 | 82.2 | | | | | | |
| 13.0 | 78.6 | | | | | | |
| 13.5 | 75.7 | | | | | | |

347 AT 120 KT.

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 76.2 | | | | | | |
| 1.0 | 79.6 | | | | | | |
| 1.5 | 80.7 | | | | | | |
| 2.0 | 83.1 | | | | | | |
| 2.5 | 83.5 | | | | | | |
| 3.0 | 85.2 | | | | | | |
| 3.5 | 86.2 | | | | | | |
| 4.0 | 85.9 | | | | | | |
| 4.5 | 86.6 | | | | | | |
| 5.0 | 87.3 | | | | | | |
| 5.5 | 84.2 | | | | | | |
| 6.0 | 82.7 | | | | | | |
| 6.5 | 78.2 | | | | | | |
| 7.0 | 76.6 | | | | | | |
| 7.5 | 75.7 | | | | | | |
| 8.0 | 73.8 | | | | | | |

CH-47A

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 85.3 | 0.0 | 85.3 | 84.8 | 72.0 | 79.0 | 86.0 | 0.1 |
| 0.5 | 86.0 | 0.0 | 86.0 | 85.1 | 72.4 | 79.3 | 86.3 | 0.1 |
| 1.0 | 86.9 | 0.5 | 87.4 | 85.8 | 73.1 | 80.0 | 87.0 | 0.4 |
| 1.5 | 88.2 | 0.6 | 88.8 | 86.8 | 76.1 | 81.6 | 88.6 | 0.4 |
| 2.0 | 88.8 | 0.8 | 89.6 | 86.8 | 76.9 | 82.2 | 89.2 | 0.4 |
| 2.5 | 89.5 | 0.8 | 90.3 | 87.5 | 77.7 | 82.8 | 89.8 | 0.4 |
| 3.0 | 90.0 | 0.0 | 90.0 | 88.1 | 78.1 | 83.3 | 90.3 | 0.1 |
| 3.5 | 91.5 | 0.0 | 91.5 | 89.0 | 79.9 | 84.7 | 91.7 | 0.1 |
| 4.0 | 93.8 | 0.0 | 93.8 | 90.5 | 82.5 | 86.8 | 93.8 | 0.1 |
| 4.5 | 94.4 | 0.0 | 94.4 | 90.7 | 83.1 | 87.4 | 94.4 | 0.1 |
| 5.0 | 96.0 | 0.0 | 96.0 | 92.4 | 84.0 | 88.8 | 95.8 | 0.1 |
| 5.5 | 96.8 | 0.5 | 97.3 | 93.6 | 84.4 | 89.6 | 96.6 | 0.4 |
| 6.0 | 98.3 | 0.7 | 99.0 | 94.1 | 86.2 | 91.3 | 98.3 | 1.0 |
| 6.5 | 98.9 | 1.2 | 100.1 | 94.9 | 87.3 | 92.3 | 99.3 | 1.3 |
| 7.0 | 99.6 | 0.8 | 100.4 | 95.9 | 88.1 | 93.3 | 100.3 | 0.4 |
| 7.5 | 100.1 | 0.7 | 100.8 | 96.6 | 88.4 | 93.8 | 100.8 | 0.8 |
| 8.0 | 101.3 | 0.9 | 102.2 | 98.0 | 89.1 | 94.7 | 101.7 | 0.8 |
| 8.5 | 101.2 | 0.0 | 101.2 | 98.1 | 88.7 | 94.5 | 101.5 | 0.1 |
| 9.0 | 100.8 | 0.0 | 100.8 | 97.9 | 88.0 | 93.9 | 100.9 | 0.1 |
| 9.5 | 100.1 | 0.0 | 100.1 | 97.3 | 87.2 | 93.3 | 100.3 | 0.1 |
| 10.0 | 98.8 | 0.0 | 98.8 | 96.1 | 85.8 | 92.0 | 99.0 | 0.1 |
| 10.5 | 97.7 | 0.0 | 97.7 | 94.8 | 84.6 | 90.8 | 97.8 | 0.1 |
| 11.0 | 96.3 | 0.0 | 96.3 | 93.4 | 83.3 | 89.3 | 96.3 | 0.1 |
| 11.5 | 95.1 | 0.5 | 95.6 | 92.1 | 82.2 | 88.1 | 95.1 | 0.3 |
| 12.0 | 92.8 | 0.6 | 93.4 | 89.9 | 79.9 | 85.8 | 92.8 | 0.3 |
| 12.5 | 90.5 | 0.6 | 91.1 | 87.6 | 77.7 | 83.6 | 90.6 | 0.3 |

MAXIMUM VALUES IN BANDS, PNLC =102.0

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 90.6 | 88.9 | 87.9 | 89.2 | 84.8 | 84.4 | 90.0 | 91.6 | 89.7 | 87.9 |
| 81.8 | 80.2 | 76.7 | 72.6 | 69.2 | 65.6 | 61.9 | 57.9 | 53.3 | 50.4 |
| 47.9 | 46.8 | 46.3 | 46.4 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 85.4 | 87.6 | 87.9 | 89.2 | 83.2 | 78.8 | 87.2 | 91.6 | 89.7 | 86.6 |
| 80.5 | 80.2 | 75.5 | 72.6 | 69.2 | 65.6 | 61.7 | 57.6 | 53.3 | 50.4 |
| 47.9 | 46.8 | 46.3 | 46.3 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 6.5 | 1.2 | | | | | | |
| PNL | 8.0 | 101.3 | 9.5 | 107.9 | 12.5 | 108.0 | 99.3 | 97.5 |
| PNLT | 8.0 | 102.2 | 9.0 | 108.2 | 12.5 | 108.4 | 100.0 | 98.4 |
| A-LEV | 8.0 | 89.1 | 9.5 | 95.6 | 12.5 | 95.7 | 87.1 | 85.3 |
| N-LEV | 8.0 | 101.7 | 9.0 | 108.1 | 12.5 | 108.2 | 99.5 | 97.9 |

EPNL = 98.2

1 HAP

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 81.0 | 0.9 | 81.9 | 83.1 | 64.5 | 75.1 | 82.1 | 0.9 |
| 0.5 | 81.5 | 0.7 | 82.2 | 83.9 | 64.9 | 75.7 | 82.7 | 0.9 |
| 1.0 | 81.5 | 0.0 | 81.5 | 84.5 | 65.1 | 76.0 | 83.0 | 0.1 |
| 1.5 | 82.2 | 0.0 | 82.2 | 85.5 | 65.9 | 76.9 | 83.9 | 0.1 |
| 2.0 | 82.8 | 0.0 | 82.8 | 86.1 | 66.8 | 77.6 | 84.6 | 0.1 |
| 2.5 | 83.6 | 0.0 | 83.6 | 86.5 | 67.3 | 78.1 | 85.1 | 0.1 |
| 3.0 | 84.4 | 0.0 | 84.4 | 87.3 | 68.1 | 78.9 | 85.9 | 0.1 |
| 3.5 | 84.7 | 0.0 | 84.7 | 88.0 | 68.5 | 79.5 | 86.5 | 0.1 |
| 4.0 | 84.9 | 0.0 | 84.9 | 88.6 | 68.6 | 79.9 | 86.9 | 0.1 |
| 4.5 | 85.1 | 0.0 | 85.1 | 88.8 | 68.8 | 80.2 | 87.2 | 0.1 |
| 5.0 | 86.4 | 0.6 | 87.0 | 90.2 | 70.0 | 81.5 | 88.5 | 0.3 |
| 5.5 | 88.3 | 1.2 | 89.5 | 91.5 | 71.3 | 82.8 | 89.8 | 1.1 |
| 6.0 | 89.5 | 1.0 | 90.5 | 92.7 | 72.1 | 83.8 | 90.8 | 0.4 |
| 6.5 | 90.4 | 1.0 | 91.4 | 93.6 | 73.0 | 84.6 | 91.6 | 0.4 |
| 7.0 | 90.8 | 0.6 | 91.4 | 94.4 | 73.9 | 85.4 | 92.4 | 0.4 |
| 7.5 | 91.0 | 0.0 | 91.0 | 95.5 | 74.4 | 86.3 | 93.3 | 0.1 |
| 8.0 | 92.2 | 0.0 | 92.2 | 95.9 | 75.1 | 87.1 | 94.1 | 0.1 |
| 8.5 | 92.1 | 1.2 | 93.3 | 94.9 | 74.8 | 86.2 | 93.2 | 1.1 |
| 9.0 | 92.9 | 1.6 | 94.5 | 96.3 | 75.9 | 87.1 | 94.1 | 1.1 |
| 9.5 | 92.2 | 1.5 | 93.7 | 94.8 | 76.1 | 85.9 | 92.9 | 1.1 |
| 10.0 | 91.7 | 0.0 | 91.7 | 93.5 | 76.4 | 85.2 | 92.2 | 0.1 |
| 10.5 | 90.6 | 0.6 | 91.2 | 92.0 | 76.3 | 84.0 | 91.0 | 1.0 |
| 11.0 | 90.1 | 0.7 | 90.8 | 90.2 | 76.2 | 83.0 | 90.0 | 1.0 |
| 11.5 | 89.5 | 0.7 | 90.2 | 88.5 | 76.2 | 82.1 | 89.1 | 1.0 |
| 12.0 | 88.2 | 0.7 | 88.9 | 86.6 | 75.1 | 80.7 | 87.7 | 1.0 |
| 12.5 | 86.5 | 0.6 | 87.1 | 84.7 | 73.5 | 79.1 | 86.1 | 1.0 |
| 13.0 | 84.8 | 0.5 | 85.3 | 83.3 | 71.7 | 77.5 | 84.5 | 1.0 |
| 13.5 | 82.6 | 0.5 | 83.1 | 81.1 | 69.5 | 75.3 | 82.3 | 1.0 |

MAXIMUM VALUES IN BANDS, PNLC = 95.1

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 91.7 | 90.7 | 89.6 | 88.8 | 84.9 | 78.9 | 74.4 | 72.5 | 74.2 | 75.0 |
| 72.8 | 67.5 | 67.6 | 66.6 | 63.9 | 61.5 | 59.2 | 55.7 | 50.4 | 47.8 |
| 45.7 | 45.1 | 45.3 | 45.9 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 91.7 | 90.7 | 88.6 | 88.3 | 81.3 | 76.7 | 72.7 | 64.6 | 64.3 | 67.1 |
| 71.3 | 65.8 | 60.7 | 58.9 | 57.1 | 53.9 | 53.3 | 49.0 | 45.4 | 44.3 |
| 43.6 | 44.3 | 45.2 | 45.9 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 9.0 | 1.6 | | | | | | |
| PNL | 9.0 | 92.9 | 11.5 | 100.0 | 13.5 | 100.1 | 91.7 | 89.4 |
| PNLT | 9.0 | 94.5 | 10.5 | 100.7 | 13.5 | 100.9 | 93.0 | 91.0 |
| A-LEV | 10.0 | 76.4 | 12.0 | 84.3 | 13.5 | 84.4 | 75.4 | 72.9 |
| N-LEV | 8.0 | 94.1 | 12.0 | 101.2 | 13.5 | 101.2 | 93.1 | 90.6 |

EPNL = 90.7

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| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 76.2 | 1.6 | 77.8 | 75.9 | 62.6 | 69.4 | 76.4 | 1.6 |
| 0.5 | 76.7 | 1.2 | 77.9 | 75.2 | 63.7 | 69.9 | 76.9 | 1.1 |
| 1.0 | 78.7 | 1.4 | 80.1 | 74.6 | 65.9 | 71.4 | 78.4 | 1.6 |
| 1.5 | 80.8 | 1.4 | 82.2 | 75.8 | 68.0 | 73.5 | 80.5 | 1.1 |
| 2.0 | 82.8 | 1.8 | 84.6 | 76.5 | 69.8 | 75.3 | 82.3 | 1.6 |
| 2.5 | 84.9 | 1.8 | 86.7 | 78.5 | 72.1 | 77.5 | 84.5 | 1.6 |
| 3.0 | 87.0 | 1.7 | 88.7 | 81.4 | 74.2 | 79.5 | 86.5 | 1.6 |
| 3.5 | 87.9 | 0.5 | 88.4 | 83.3 | 75.4 | 80.7 | 87.7 | 0.8 |
| 4.0 | 88.2 | 0.6 | 88.8 | 83.7 | 76.2 | 81.4 | 88.4 | 1.0 |
| 4.5 | 88.6 | 0.5 | 89.1 | 83.4 | 76.8 | 81.7 | 88.7 | 1.0 |
| 5.0 | 88.1 | 0.6 | 88.7 | 82.6 | 76.6 | 81.2 | 88.2 | 0.4 |
| 5.5 | 86.8 | 0.9 | 87.7 | 81.4 | 75.4 | 80.0 | 87.0 | 0.4 |
| 6.0 | 85.6 | 0.8 | 86.4 | 80.2 | 74.0 | 78.7 | 85.7 | 0.4 |
| 6.5 | 84.2 | 0.7 | 84.9 | 78.8 | 72.2 | 77.0 | 84.0 | 0.4 |
| 7.0 | 82.7 | 0.6 | 83.3 | 77.3 | 70.5 | 75.4 | 82.4 | 0.4 |
| 7.5 | 80.9 | 0.5 | 81.4 | 75.6 | 68.7 | 73.6 | 80.6 | 0.4 |
| 8.0 | 79.1 | 0.0 | 79.1 | 74.0 | 67.2 | 71.9 | 78.9 | 0.1 |

MAXIMUM VALUES IN BANDS, PNLC = 89.3

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 79.3 | 74.7 | 70.4 | 71.6 | 68.2 | 73.0 | 74.4 | 73.4 | 70.2 | 70.9 |
| 68.8 | 67.8 | 68.2 | 68.0 | 68.5 | 67.2 | 63.0 | 60.5 | 57.4 | 54.1 |
| 49.1 | 45.4 | 45.1 | 45.8 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77.4 | 72.7 | 70.4 | 69.9 | 67.8 | 72.6 | 73.5 | 72.6 | 67.0 | 70.9 |
| 68.6 | 67.8 | 68.2 | 67.8 | 68.5 | 66.1 | 63.0 | 60.5 | 57.4 | 54.1 |
| 49.1 | 45.4 | 45.0 | 45.7 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 2.0 | 1.8 | | | | | | |
| PNL | 4.5 | 88.6 | 7.5 | 94.2 | 8.0 | 94.3 | 85.6 | 82.9 |
| PNLT | 4.5 | 89.1 | 7.5 | 95.1 | 8.0 | 95.2 | 86.1 | 83.4 |
| A-LEV | 4.5 | 76.8 | 7.0 | 82.1 | 8.0 | 82.2 | 73.5 | 71.1 |
| N-LEV | 4.5 | 88.7 | 7.0 | 94.1 | 8.0 | 94.2 | 85.4 | 83.0 |

EPNL = 85.1

# APPENDIX E

## *BBN Simulation of* Fuller/NPL Data Set

## COMPARISON OF NPL AND BBN ANALYSES - FULLER'S NPL DATA

| Signal | French NPL | Linear BBN mean | C.I. std.dev. | British A-weighted I NPL | British A-weighted I BBN mean | British A-weighted I std.dev. | 10 log C.I./CI$_n$ NPL dB | 10 log C.I./CI$_n$ BBN dB | 10 log I NPL dB | 10 log I BBN dB |
|---|---|---|---|---|---|---|---|---|---|---|
| Shaped Noise Only | 3.0 | 2.99 | 0.09 | 0.5 | 0 | 0 | 0 | 0 | -3.0 | $-\infty$ |
| Noise + 200 Hz/10dB | 3.6 | 3.70 | 0.24 | 0.6 | 0 | 0 | 0.8 | 0.9 | -2.2 | " |
| Noise + 400 Hz/10dB | 4.0 | 3.52 | 0.25 | 1.1 | 0 | 0 | 1.2 | 0.7 | 0.4 | " |
| Noise + 800 Hz/10dB | 3.2 | 3.26 | 0.23 | 0.9 | 0 | 0 | 0.3 | 0.4 | -0.5 | " |
| Noise + 200 Hz/20dB | 11.5 | 13.5 | 1.11 | 3.4 | 0.04 | 0.04 | 5.8 | 6.5 | 5.3 | -8.9 |
| Noise + 400 Hz/20dB | 20.5 | 20.3 | 1.96 | 11.1 | 0.35 | 0.35 | 8.3 | 8.3 | 10.5 | 0.4 |
| Noise + 800 Hz/20dB | 13.3 | 18.8 | 2.17 | 11.8 | 0.53 | 0.53 | 6.5 | 8.0 | 10.7 | 2.3 |
| Noise + 200 Hz/30dB | | 23.6 | 2.79 | | 1.23 | 1.23 | | 13.7 | | 11.5 |
| Noise + 400 Hz/30dB | | 51.3 | 3.23 | | 5.48 | 5.48 | | 17.1 | | 15.5 |
| Noise + 800 Hz/30dB | | 87.5 | 6.15 | | 8.08 | 8.08 | | 19.4 | | 16.5 |

Note: NPL : $\tau$ = 1 ms
BBN : $\tau$ = 10 ms

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| White noise | | 3.09 | 0.13 | | 0 | 0 | | | | |

COMPARISON OF NPL AND BBN ANALYSES - FULLER's NPL DATA (Cont'd)

| Signal | PNLTM dB | Subjective* Δ PNLTM dB | A level rms dB | A level peak dB | A level peak std. dev. dB | Peak-rms dB |
|---|---|---|---|---|---|---|
| Shaped Noise Only | 86.8 | 0 | 75.5 | 86.2 | 0.65 | 10.7 |
| Noise + 200 Hz/10dB | 87.7 | 2.2 | 75.7 | 86.2 | 0.75 | 10.5 |
| Noise + 400 Hz/10dB | 87.3 | 1.0 | 75.6 | 86.6 | 0.54 | 11.0 |
| Noise + 800 Hz/10dB | 86.7 | 2.3 | 75.5 | 87.5 | 1.17 | 12.0 |
| Noise + 200 Hz/20dB | 88.8 | 2.8 | 75.6 | 88.1 | 0.70 | 12.5 |
| Noise + 400 Hz/20dB | 88.4 | 3.4 | 76.0 | 91.8 | 0.55 | 15.8 |
| Noise + 800 Hz/20dB | 87.0 | 5.3 | 76.2 | 94.8 | 0.51 | 18.6 |
| Noise + 200 Hz/30dB | 93.1 | | 77.7 | 92.2 | 0.36 | 14.5 |
| Noise + 400 Hz/30dB | 91.8 | | 79.3 | 98.5 | 0.32 | 19.2 |
| Noise + 800 Hz/30dB | 90.1 | | 79.5 | 103.1 | 0.21 | 23.6 |

*The reduction in level required in the psychoacoustical experiment to have the signal judged equal in annoyance to the noise signal used as reference.

SHAPED NOISE: RUN #1, 3-25-77

| TIME | BRITISH 0.5 SEC RMS (RE: MAX) | BRITISH IMPULSE COEF | BRITISH IMPULSE COEF (DB) | FRENCH 0.5 SEC RMS (RE: MAX) | FRENCH IMPULSE COEF | FRENCH IMPULSE CORR (DB) |
|---|---|---|---|---|---|---|
| 0.5 | -0.4 | .00 | -24.1 | -0.5 | 2.94 | 0.0 |
| 1.0 | -0.3 | .00 | -22.5 | -0.4 | 2.90 | 0.0 |
| 1.5 | -0.4 | .00 | -24.4 | -0.5 | 3.12 | 0.1 |
| 2.0 | -0.2 | .00 | -21.5 | -0.2 | 3.03 | 0.0 |
| 2.5 | -0.4 | .00 | -20.3 | -0.4 | 3.05 | 0.1 |
| 3.0 | -0.4 | .00 | -17.0 | -0.4 | 3.16 | 0.2 |
| 3.5 | -0.3 | .00 | -21.8 | 0.0 | 2.82 | -0.2 |
| 4.0 | -0.4 | .00 | -23.2 | -0.3 | 2.95 | 0.0 |
| 4.5 | -0.5 | .00 | -24.9 | -0.4 | 2.94 | 0.0 |
| 5.0 | -0.4 | .00 | -23.3 | -0.5 | 2.92 | 0.0 |
| 5.5 | -0.5 | .00 | -22.6 | -0.4 | 2.95 | 0.0 |
| 6.0 | 0.0 | .00 | -21.8 | -0.2 | 2.85 | -0.2 |
| 6.5 | -0.2 | .00 | -20.7 | 0.0 | 3.04 | 0.1 |
| 7.0 | -0.2 | .00 | -24.5 | -0.3 | 2.97 | 0.0 |
| 7.5 | 0.0 | .00 | -23.9 | -0.2 | 3.03 | 0.0 |
| 8.0 | 0.0 | .00 | -17.9 | -0.4 | 3.09 | 0.1 |
| 8.5 | -0.3 | .00 | -21.8 | -0.5 | 3.07 | 0.1 |
| 9.0 | -0.3 | .00 | -20.6 | -0.4 | 3.00 | 0.0 |
| 9.5 | 0.0 | .00 | -22.0 | -0.2 | 3.03 | 0.0 |
| 10.0 | -0.4 | .00 | -23.5 | -0.4 | 3.06 | 0.1 |
| 10.5 | -0.2 | .00 | -19.2 | -0.4 | 2.94 | 0.0 |

200 HZ COMPONET, 10 DB PEAK AVOVE RMS NOISE

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -0.7 | .00 | -17.8 | -0.7 | 3.46 | 0.5 |
| 1.0 | -0.7 | .00 | -24.9 | -0.8 | 3.71 | 0.8 |
| 1.5 | -0.6 | .00 | -22.8 | -0.6 | 3.76 | 0.9 |
| 2.0 | -0.6 | .00 | -20.8 | -0.5 | 4.11 | 1.3 |
| 2.5 | -0.5 | .00 | -20.4 | -0.3 | 3.40 | 0.5 |
| 3.0 | -0.4 | .00 | -18.4 | -0.2 | 3.80 | 0.9 |
| 3.5 | -0.3 | .00 | -20.9 | -0.2 | 3.87 | 1.0 |
| 4.0 | -0.5 | .00 | -23.6 | -0.6 | 3.36 | 0.4 |
| 4.5 | 0.3 | .00 | -23.6 | -0.3 | 3.54 | 0.6 |
| 5.0 | -0.7 | .00 | -21.0 | -0.5 | 3.62 | 0.7 |
| 5.5 | 0.0 | .00 | -20.4 | 0.0 | 3.48 | 0.6 |
| 6.0 | -0.6 | .00 | -23.1 | -0.4 | 3.78 | 0.9 |
| 6.5 | -0.5 | .00 | -19.4 | -0.5 | 4.11 | 1.3 |
| 7.0 | -0.3 | .00 | -25.6 | 0.0 | 3.32 | 0.4 |
| 7.5 | -0.5 | .00 | -20.7 | -0.6 | 3.76 | 0.9 |
| 8.0 | -0.3 | .00 | -24.8 | -0.3 | 3.79 | 0.9 |
| 8.5 | -0.5 | .00 | -23.3 | -0.3 | 3.72 | 0.8 |
| 9.0 | -0.2 | .00 | -20.7 | -0.2 | 3.44 | 0.5 |
| 9.5 | -0.7 | .00 | -25.0 | -0.7 | 3.86 | 1.0 |
| 10.0 | -0.3 | .00 | -20.6 | -0.2 | 3.66 | 0.8 |
| 10.5 | -0.9 | .00 | -17.2 | -1.0 | 4.14 | 1.3 |

400 HZ. COMP. RUN #3, 10 DB PEAK ABOVE RMS NOISE

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -1.0 | .00 | -13.5 | -1.0 | 4.05 | 1.2 |
| 1.0 | -0.6 | .00 | -20.1 | -0.7 | 3.51 | 0.6 |
| 1.5 | -0.2 | .00 | -18.4 | -0.3 | 3.45 | 0.5 |
| 2.0 | -0.4 | .00 | -21.3 | -0.7 | 3.35 | 0.4 |
| 2.5 | -0.6 | .00 | -20.0 | -0.6 | 3.39 | 0.5 |
| 3.0 | -0.3 | .00 | -21.6 | -0.6 | 3.35 | 0.4 |
| 3.5 | 0.0 | .00 | -20.2 | -0.3 | 3.29 | 0.3 |
| 4.0 | -0.3 | .00 | -16.4 | -0.4 | 4.01 | 1.2 |
| 4.5 | 0.0 | .00 | -23.1 | 0.0 | 3.29 | 0.3 |
| 5.0 | -0.5 | .00 | -23.8 | -0.6 | 3.56 | 0.6 |
| 5.5 | -0.3 | .00 | -23.1 | -0.3 | 3.61 | 0.7 |
| 6.0 | 0.0 | .00 | -20.4 | 0.0 | 3.43 | 0.5 |
| 6.5 | -0.2 | .00 | -19.1 | -0.3 | 3.64 | 0.7 |
| 7.0 | -0.3 | .00 | -20.6 | -0.3 | 3.90 | 1.0 |
| 7.5 | -0.4 | .00 | -20.6 | -0.8 | 3.61 | 0.7 |
| 8.0 | -0.3 | .00 | -23.0 | -0.2 | 3.38 | 0.4 |
| 8.5 | 0.0 | .00 | -18.3 | 0.0 | 3.54 | 0.6 |
| 9.0 | -0.2 | .00 | -21.4 | -0.2 | 3.01 | 0.0 |
| 9.5 | -0.2 | .00 | -22.7 | -0.3 | 3.37 | 0.4 |
| 10.0 | -0.3 | .00 | -20.7 | -0.5 | 3.45 | 0.5 |
| 10.5 | -0.4 | .00 | -16.6 | -0.5 | 3.68 | 0.8 |

800 HZ. COMP., RUN #4, 10 DB PEAK ABOVE RMS NOISE

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | 0.0 | .00 | -15.7 | 0.0 | 3.48 | 0.6 |
| 1.0 | -0.2 | .00 | -15.7 | -0.2 | 3.58 | 0.7 |
| 1.5 | 0.0 | .00 | -20.0 | -0.2 | 3.08 | 0.1 |
| 2.0 | -0.5 | .00 | -18.3 | -0.5 | 3.17 | 0.2 |
| 2.5 | -0.3 | .00 | -21.9 | -0.2 | 3.11 | 0.1 |
| 3.0 | -0.4 | .00 | -18.8 | -0.4 | 3.16 | 0.2 |
| 3.5 | 0.0 | .00 | -22.3 | -0.3 | 3.09 | 0.1 |
| 4.0 | -0.2 | .00 | -22.3 | 0.0 | 3.06 | 0.1 |
| 4.5 | -0.2 | .00 | -20.3 | -0.3 | 3.38 | 0.4 |
| 5.0 | -0.2 | .00 | -20.3 | -0.2 | 2.91 | 0.0 |
| 5.5 | 0.0 | .00 | -13.2 | -0.2 | 3.91 | 1.0 |
| 6.0 | -0.3 | .00 | -21.5 | -0.3 | 3.16 | 0.2 |
| 6.5 | -0.4 | .00 | -17.4 | -0.5 | 3.14 | 0.2 |
| 7.0 | -0.5 | .00 | -19.2 | -0.7 | 3.62 | 0.7 |
| 7.5 | 0.0 | .00 | -17.6 | 0.0 | 3.16 | 0.2 |
| 8.0 | 0.0 | .00 | -20.2 | -0.2 | 3.15 | 0.2 |
| 8.5 | -0.2 | .00 | -21.5 | -0.2 | 3.10 | 0.1 |
| 9.0 | -0.5 | .00 | -19.6 | -0.6 | 3.20 | 0.2 |
| 9.5 | -0.3 | .00 | -19.8 | 0.0 | 3.33 | 0.4 |
| 10.0 | -0.3 | .00 | -19.8 | -0.2 | 3.39 | 0.5 |
| 10.5 | -0.5 | .00 | -21.7 | -0.4 | 3.31 | 0.4 |

200 HZ. COMP., RUN #5, 20 DB PEAK ABOVE RMS NOISE

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | 0.0 | .14 | -8.3 | -0.7 | 14.62 | 13.3 |
| 1.0 | -0.3 | .12 | -9.0 | 0.0 | 14.11 | 12.7 |
| 1.5 | -0.2 | .17 | -7.6 | -0.2 | 13.98 | 12.6 |
| 2.0 | 0.0 | .11 | -9.2 | -0.2 | 12.58 | 11.0 |
| 2.5 | 0.0 | .19 | -7.2 | 0.0 | 12.70 | 11.1 |
| 3.0 | 0.0 | .15 | -8.1 | -0.4 | 13.05 | 11.5 |
| 3.5 | -0.4 | .13 | -8.6 | -0.7 | 16.39 | 15.3 |
| 4.0 | -0.2 | .12 | -9.0 | -0.3 | 12.55 | 10.9 |
| 4.5 | -0.4 | .13 | -8.8 | -0.4 | 13.31 | 11.8 |
| 5.0 | -0.4 | .17 | -7.6 | -0.3 | 12.90 | 11.3 |
| 5.5 | -0.4 | .16 | -7.8 | -0.3 | 15.11 | 13.8 |
| 6.0 | -0.4 | .16 | -7.9 | -1.0 | 14.55 | 13.2 |
| 6.5 | -0.5 | .19 | -7.2 | -0.4 | 13.88 | 12.4 |
| 7.0 | -0.5 | .11 | -9.4 | -0.4 | 12.35 | 10.7 |
| 7.5 | -0.4 | .11 | -9.2 | -0.4 | 14.00 | 12.6 |
| 8.0 | -0.4 | .16 | -7.7 | -0.6 | 12.76 | 11.2 |
| 8.5 | -0.2 | .06 | -11.6 | -0.5 | 12.65 | 11.0 |
| 9.0 | -0.6 | .08 | -10.7 | -1.1 | 14.39 | 13.0 |
| 9.5 | -0.2 | .08 | -10.9 | -0.6 | 12.10 | 10.4 |
| 10.0 | -0.3 | .10 | -9.8 | -0.6 | 12.26 | 10.6 |
| 10.5 | -0.5 | .19 | -7.1 | -0.5 | 13.25 | 11.7 |

400 HZ. COMP., RUN #6, 20 DB PEAK ABOVE RMS NOISE

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -0.7 | 2.00 | 3.0 | -0.7 | 26.06 | 26.4 |
| 1.0 | -0.6 | .57 | -2.4 | -0.5 | 17.62 | 16.7 |
| 1.5 | -0.3 | 1.22 | 0.9 | -0.2 | 21.65 | 21.3 |
| 2.0 | 0.0 | .67 | -1.7 | 0.0 | 19.30 | 18.6 |
| 2.5 | -0.4 | 1.35 | 1.3 | -0.3 | 18.32 | 17.5 |
| 3.0 | -0.9 | .85 | -0.7 | -1.1 | 19.03 | 18.3 |
| 3.5 | -0.6 | 1.02 | 0.1 | -0.3 | 20.82 | 20.4 |
| 4.0 | -0.3 | 1.28 | 1.1 | -0.2 | 19.01 | 18.3 |
| 4.5 | -0.2 | 1.80 | 2.6 | 0.0 | 22.80 | 22.6 |
| 5.0 | -0.5 | .93 | -0.3 | -0.3 | 20.17 | 19.6 |
| 5.5 | 0.0 | 1.14 | 0.6 | 0.0 | 22.95 | 22.8 |
| 6.0 | -1.0 | 1.14 | 0.6 | -1.0 | 19.33 | 18.7 |
| 6.5 | -0.6 | .88 | -0.5 | -0.5 | 18.54 | 17.8 |
| 7.0 | -0.4 | .72 | -1.4 | -0.2 | 19.62 | 19.0 |
| 7.5 | -0.2 | 1.38 | 1.4 | 0.0 | 21.69 | 21.4 |
| 8.0 | -0.3 | .63 | -2.0 | -0.2 | 18.06 | 17.2 |
| 8.5 | -0.6 | 1.10 | 0.4 | -0.9 | 20.41 | 19.9 |
| 9.0 | 0.0 | 1.02 | 0.1 | 0.0 | 19.87 | 19.3 |
| 9.5 | -0.5 | 1.27 | 1.1 | -0.3 | 21.05 | 20.6 |
| 10.0 | -0.4 | 1.16 | 0.7 | -0.3 | 19.48 | 18.8 |
| 10.5 | -0.6 | 1.10 | 0.4 | -0.4 | 20.72 | 20.3 |

800 HZ. COMP., RUN #7, 20 DB PEAK ABOVE RMS NOISE

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -0.3 | 1.27 | 1.1 | -0.4 | 17.84 | 17.0 |
| 1.0 | -0.6 | 1.67 | 2.2 | -0.7 | 16.64 | 15.6 |
| 1.5 | 0.0 | 1.85 | 2.7 | -0.3 | 18.23 | 17.4 |
| 2.0 | -0.3 | 1.60 | 2.0 | -0.4 | 20.04 | 19.5 |
| 2.5 | -0.5 | 1.85 | 2.7 | -0.7 | 21.10 | 20.7 |
| 3.0 | -0.3 | .98 | 0.0 | -0.5 | 17.07 | 16.1 |
| 3.5 | -0.5 | 1.40 | 1.5 | -0.8 | 15.85 | 14.7 |
| 4.0 | -0.3 | 1.85 | 2.7 | -0.6 | 18.37 | 17.6 |
| 4.5 | -0.2 | 1.78 | 2.5 | -0.4 | 20.31 | 19.8 |
| 5.0 | -0.3 | 1.13 | 0.5 | -0.6 | 16.27 | 15.2 |
| 5.5 | 0.0 | 1.65 | 2.2 | -0.4 | 19.50 | 18.9 |
| 6.0 | -0.2 | 2.80 | 4.5 | 0.0 | 22.08 | 21.8 |
| 6.5 | -0.3 | 1.59 | 2.0 | -0.7 | 18.36 | 17.6 |
| 7.0 | -0.2 | 1.53 | 1.9 | -0.3 | 17.02 | 16.0 |
| 7.5 | 0.0 | 2.62 | 4.2 | -0.5 | 22.21 | 22.0 |
| 8.0 | -0.7 | .98 | 0.0 | -0.5 | 17.42 | 16.5 |
| 8.5 | -0.6 | 1.55 | 1.9 | -0.6 | 18.28 | 17.5 |
| 9.0 | -0.6 | 2.20 | 3.4 | -0.4 | 20.16 | 19.6 |
| 9.5 | -0.6 | .86 | -0.6 | -0.7 | 15.01 | 13.7 |
| 10.0 | 0.0 | 2.11 | 3.2 | -0.4 | 19.32 | 18.7 |
| 10.5 | -1.5 | 2.57 | 4.1 | -1.7 | 22.76 | 22.6 |

200 HZ. COMP., RUN #8, 30 DB PEAK ABOVE RRMS NOISE

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -0.4 | 14.31 | 11.6 | -0.2 | 22.30 | 22.1 |
| 1.0 | -0.4 | 14.40 | 11.6 | -0.3 | 22.43 | 22.2 |
| 1.5 | -0.2 | 13.30 | 11.2 | -0.2 | 21.89 | 21.6 |
| 2.0 | -0.2 | 15.13 | 11.8 | -0.2 | 22.67 | 22.5 |
| 2.5 | -0.8 | 17.12 | 12.3 | -0.3 | 24.34 | 24.4 |
| 3.0 | -0.3 | 15.79 | 12.0 | -0.8 | 25.47 | 25.7 |
| 3.5 | -0.3 | 13.99 | 11.5 | -0.2 | 22.38 | 22.2 |
| 4.0 | 0.0 | 13.73 | 11.4 | 0.0 | 23.01 | 22.9 |
| 4.5 | -0.5 | 14.16 | 11.5 | -0.3 | 22.52 | 22.3 |
| 5.0 | -0.3 | 13.80 | 11.4 | -0.3 | 22.29 | 22.1 |
| 5.5 | -1.0 | 14.18 | 11.5 | -1.3 | 28.05 | 28.6 |
| 6.0 | -0.5 | 12.37 | 10.9 | -0.4 | 22.44 | 22.2 |
| 6.5 | -0.3 | 13.25 | 11.2 | -0.3 | 21.61 | 21.3 |
| 7.0 | -0.3 | 14.91 | 11.7 | -0.3 | 22.61 | 22.4 |
| 7.5 | -0.2 | 14.68 | 11.7 | -0.2 | 22.02 | 21.7 |
| 8.0 | -0.8 | 15.66 | 11.9 | -0.3 | 22.67 | 22.5 |
| 8.5 | 0.0 | 13.49 | 11.3 | -1.1 | 26.59 | 27.0 |
| 9.0 | -0.2 | 11.65 | 10.7 | -0.2 | 22.30 | 22.1 |
| 9.5 | 0.0 | 12.84 | 11.1 | 0.0 | 22.25 | 22.0 |
| 10.0 | 0.0 | 13.02 | 11.1 | 0.0 | 22.66 | 22.5 |
| 10.5 | 0.0 | 13.74 | 11.4 | 0.0 | 22.12 | 21.9 |

400 HZ. COMP., RUN #9, 30 DB PEAK ABOVE RMS NOISE

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -0.8 | 34.31 | 15.4 | -0.6 | 51.51 | 55.5 |
| 1.0 | 0.0 | 31.40 | 15.0 | 0.0 | 50.68 | 54.5 |
| 1.5 | -0.3 | 36.00 | 15.6 | 0.0 | 49.69 | 53.4 |
| 2.0 | -0.3 | 34.97 | 15.4 | -0.2 | 50.75 | 54.6 |
| 2.5 | -0.2 | 30.54 | 14.8 | 0.0 | 49.23 | 52.9 |
| 3.0 | -1.5 | 46.91 | 16.7 | -0.9 | 58.85 | 63.8 |
| 3.5 | 0.0 | 30.69 | 14.9 | 0.0 | 49.48 | 53.1 |
| 4.0 | 0.0 | 35.31 | 15.5 | 0.0 | 51.19 | 55.1 |
| 4.5 | -0.2 | 33.80 | 15.3 | 0.0 | 50.03 | 53.8 |
| 5.0 | -0.3 | 37.19 | 15.7 | 0.0 | 49.13 | 52.7 |
| 5.5 | -0.9 | 47.34 | 16.8 | -0.7 | 55.66 | 60.2 |
| 6.0 | -0.2 | 31.47 | 15.0 | -0.7 | 55.40 | 59.9 |
| 6.5 | -0.5 | 31.74 | 15.0 | 0.0 | 49.02 | 52.6 |
| 7.0 | -0.4 | 36.54 | 15.6 | -0.2 | 50.50 | 54.3 |
| 7.5 | -0.2 | 35.70 | 15.5 | -0.2 | 50.43 | 54.2 |
| 8.0 | 0.0 | 30.77 | 14.9 | 0.0 | 49.92 | 53.6 |
| 8.5 | -0.8 | 48.10 | 16.8 | -0.9 | 59.44 | 64.5 |
| 9.0 | -0.2 | 32.18 | 15.1 | 0.0 | 49.19 | 52.8 |
| 9.5 | -0.6 | 31.41 | 15.0 | 0.0 | 48.62 | 52.2 |
| 10.0 | -0.4 | 31.40 | 15.0 | -0.3 | 48.36 | 51.9 |
| 10.5 | -0.2 | 36.40 | 15.6 | 0.0 | 49.39 | 53.0 |

800 HZ. COMP., RUN #10, 30 DB PEAK ABOVE RMS NOISE

| | BRITISH | | | FRENCH | | |
|---|---|---|---|---|---|---|
| TIME | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE COEF (DB) | 0.5 SEC RMS (RE: MAX) | IMPULSE COEF | IMPULSE CORR (DB) |
| 0.5 | -1.1 | 53.00 | 17.2 | -1.1 | 95.21 | 105.4 |
| 1.0 | -0.2 | 41.62 | 16.2 | -0.5 | 84.78 | 93.5 |
| 1.5 | -0.8 | 59.88 | 17.8 | -1.0 | 100.77 | 111.8 |
| 2.0 | -0.4 | 39.80 | 16.0 | -0.2 | 85.07 | 93.8 |
| 2.5 | -0.3 | 42.67 | 16.3 | -0.2 | 86.48 | 95.4 |
| 3.0 | 0.0 | 38.12 | 15.8 | -0.2 | 80.20 | 88.2 |
| 3.5 | 0.0 | 37.85 | 15.8 | -0.3 | 83.53 | 92.0 |
| 4.0 | 0.0 | 42.71 | 16.3 | -0.3 | 80.99 | 89.1 |
| 4.5 | -0.9 | 55.79 | 17.5 | -1.0 | 94.86 | 105.0 |
| 5.0 | -0.3 | 39.31 | 15.9 | -0.2 | 85.05 | 93.8 |
| 5.5 | -0.2 | 44.59 | 16.5 | -0.4 | 88.22 | 97.4 |
| 6.0 | 0.0 | 42.58 | 16.3 | -0.2 | 83.09 | 91.5 |
| 6.5 | 0.0 | 35.16 | 15.5 | 0.0 | 83.55 | 92.1 |
| 7.0 | -0.5 | 59.49 | 17.7 | -0.9 | 99.46 | 110.3 |
| 7.5 | -0.2 | 40.20 | 16.0 | -0.3 | 81.64 | 89.9 |
| 8.0 | -0.2 | 38.62 | 15.9 | -0.2 | 83.70 | 92.2 |
| 8.5 | -0.2 | 38.68 | 15.9 | -0.2 | 84.44 | 93.1 |
| 9.0 | -0.3 | 39.54 | 16.0 | -0.3 | 82.82 | 91.2 |
| 9.5 | -0.8 | 60.57 | 17.8 | -0.2 | 86.16 | 95.1 |
| 10.0 | 0.0 | 35.00 | 15.4 | -0.7 | 97.06 | 107.5 |
| 10.5 | 0.0 | 42.32 | 16.3 | -0.3 | 85.89 | 94.8 |
| 11.0 | -0.7 | 46.83 | 16.7 | -0.6 | 91.78 | 101.5 |

RUN #1 SHAPED NOISE

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 86.9 | | | | | | |
| 1.0 | 86.5 | | | | | | |
| 1.5 | 85.9 | | | | | | |
| 2.0 | 86.6 | | | | | | |
| 2.5 | 86.1 | | | | | | |
| 3.0 | 86.4 | | | | | | |
| 3.5 | 85.8 | | | | | | |
| 4.0 | 85.5 | | | | | | |
| 4.5 | 85.1 | | | | | | |
| 5.0 | 86.7 | | | | | | |
| 5.5 | 85.2 | | | | | | |
| 6.0 | 87.3 | | | | | | |
| 6.5 | 86.3 | | | | | | |
| 7.0 | 85.5 | | | | | | |
| 7.5 | 86.1 | | | | | | |
| 8.0 | 87.0 | | | | | | |
| 8.5 | 86.1 | | | | | | |
| 9.0 | 87.6 | | | | | | |
| 9.5 | 86.0 | | | | | | |
| 10.0 | 86.0 | | | | | | |
| 10.5 | 86.5 | | | | | | |

RUN #2: 200 HZ 10 DB PEAK ABOVE RMS NOISE

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 86.8 | | | | | | |
| 1.0 | 85.2 | | | | | | |
| 1.5 | 86.5 | | | | | | |
| 2.0 | 86.0 | | | | | | |
| 2.5 | 86.2 | | | | | | |
| 3.0 | 86.7 | | | | | | |
| 3.5 | 87.0 | | | | | | |
| 4.0 | 87.1 | | | | | | |
| 4.5 | 87.0 | | | | | | |
| 5.0 | 84.9 | | | | | | |
| 5.5 | 86.9 | | | | | | |
| 6.0 | 86.7 | | | | | | |
| 6.5 | 86.4 | | | | | | |
| 7.0 | 85.9 | | | | | | |
| 7.5 | 84.9 | | | | | | |
| 8.0 | 86.3 | | | | | | |
| 8.5 | 86.7 | | | | | | |
| 9.0 | 85.6 | | | | | | |
| 9.5 | 85.4 | | | | | | |
| 10.0 | 87.1 | | | | | | |
| 10.5 | 85.1 | | | | | | |

RUN #3: 400 HZ 10 DB PEAK ABOVE RMS NOIS

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 87.2 | | | | | | |
| 1.0 | 86.2 | | | | | | |
| 1.5 | 86.5 | | | | | | |
| 2.0 | 86.2 | | | | | | |
| 2.5 | 86.6 | | | | | | |
| 3.0 | 86.0 | | | | | | |
| 3.5 | 87.2 | | | | | | |
| 4.0 | 87.7 | | | | | | |
| 4.5 | 86.5 | | | | | | |
| 5.0 | 87.1 | | | | | | |
| 5.5 | 86.1 | | | | | | |
| 6.0 | 86.7 | | | | | | |
| 6.5 | 87.0 | | | | | | |
| 7.0 | 86.5 | | | | | | |
| 7.5 | 86.3 | | | | | | |
| 8.0 | 85.6 | | | | | | |
| 8.5 | 86.4 | | | | | | |
| 9.0 | 85.9 | | | | | | |
| 9.5 | 86.3 | | | | | | |
| 10.0 | 87.1 | | | | | | |
| 10.5 | 86.2 | | | | | | |

RUN #4: 800 HZ 10 DB PEAK ABOVE RMS NOISE

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 90.0 | | | | | | |
| 1.0 | 89.5 | | | | | | |
| 1.5 | 86.9 | | | | | | |
| 2.0 | 89.0 | | | | | | |
| 2.5 | 86.2 | | | | | | |
| 3.0 | 86.8 | | | | | | |
| 3.5 | 88.3 | | | | | | |
| 4.0 | 86.2 | | | | | | |
| 4.5 | 87.5 | | | | | | |
| 5.0 | 85.8 | | | | | | |
| 5.5 | 89.3 | | | | | | |
| 6.0 | 86.3 | | | | | | |
| 6.5 | 87.4 | | | | | | |
| 7.0 | 87.2 | | | | | | |
| 7.5 | 86.5 | | | | | | |
| 8.0 | 87.1 | | | | | | |
| 8.5 | 87.1 | | | | | | |
| 9.0 | 87.5 | | | | | | |
| 9.5 | 87.9 | | | | | | |
| 10.0 | 87.3 | | | | | | |
| 10.5 | 86.7 | | | | | | |

RUN #5: 200 HZ 20DB PEAK ABOVE RMS NOISE

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 88.1 | | | | | | |
| 1.0 | 88.6 | | | | | | |
| 1.5 | 88.0 | | | | | | |
| 2.0 | 87.4 | | | | | | |
| 2.5 | 88.4 | | | | | | |
| 3.0 | 86.9 | | | | | | |
| 3.5 | 88.6 | | | | | | |
| 4.0 | 87.9 | | | | | | |
| 4.5 | 88.7 | | | | | | |
| 5.0 | 87.6 | | | | | | |
| 5.5 | 89.4 | | | | | | |
| 6.0 | 87.3 | | | | | | |
| 6.5 | 88.3 | | | | | | |
| 7.0 | 88.4 | | | | | | |
| 7.5 | 87.9 | | | | | | |
| 8.0 | 88.3 | | | | | | |
| 8.5 | 87.9 | | | | | | |
| 9.0 | 89.5 | | | | | | |
| 9.5 | 87.7 | | | | | | |
| 10.0 | 86.9 | | | | | | |
| 10.5 | 87.4 | | | | | | |

RUN #6: 400 HZ 20 DB PEAK ABOVE RMS NOISE

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 91.8 | | | | | | |
| 1.0 | 90.7 | | | | | | |
| 1.5 | 92.0 | | | | | | |
| 2.0 | 91.4 | | | | | | |
| 2.5 | 92.8 | | | | | | |
| 3.0 | 91.6 | | | | | | |
| 3.5 | 92.1 | | | | | | |
| 4.0 | 91.8 | | | | | | |
| 4.5 | 92.3 | | | | | | |
| 5.0 | 91.1 | | | | | | |
| 5.5 | 91.8 | | | | | | |
| 6.0 | 92.0 | | | | | | |
| 6.5 | 91.3 | | | | | | |
| 7.0 | 91.3 | | | | | | |
| 7.5 | 92.7 | | | | | | |
| 8.0 | 91.7 | | | | | | |
| 8.5 | 92.1 | | | | | | |
| 9.0 | 92.3 | | | | | | |
| 9.5 | 92.2 | | | | | | |
| 10.0 | 91.7 | | | | | | |
| 10.5 | 92.5 | | | | | | |

RUN #7 800 HZ 20 DB PEAK ABOVE RMS NOISE

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 95.2 | | | | | | |
| 1.0 | 95.1 | | | | | | |
| 1.5 | 94.6 | | | | | | |
| 2.0 | 95.1 | | | | | | |
| 2.5 | 94.9 | | | | | | |
| 3.0 | 95.3 | | | | | | |
| 3.5 | 94.4 | | | | | | |
| 4.0 | 94.4 | | | | | | |
| 4.5 | 95.1 | | | | | | |
| 5.0 | 94.3 | | | | | | |
| 5.5 | 94.1 | | | | | | |
| 6.0 | 95.6 | | | | | | |
| 6.5 | 95.2 | | | | | | |
| 7.0 | 94.6 | | | | | | |
| 7.5 | 95.2 | | | | | | |
| 8.0 | 94.3 | | | | | | |
| 8.5 | 94.3 | | | | | | |
| 9.0 | 95.4 | | | | | | |
| 9.5 | 94.1 | | | | | | |
| 10.0 | 95.7 | | | | | | |
| 10.5 | 94.3 | | | | | | |

RUN #8: 200 HZ 30 DB PEAK ABOVE RMS NOISE

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 92.2 | | | | | | |
| 1.0 | 92.2 | | | | | | |
| 1.5 | 93.0 | | | | | | |
| 2.0 | 92.1 | | | | | | |
| 2.5 | 92.5 | | | | | | |
| 3.0 | 92.4 | | | | | | |
| 3.5 | 91.5 | | | | | | |
| 4.0 | 92.4 | | | | | | |
| 4.5 | 92.4 | | | | | | |
| 5.0 | 91.4 | | | | | | |
| 5.5 | 92.4 | | | | | | |
| 6.0 | 91.8 | | | | | | |
| 6.5 | 92.0 | | | | | | |
| 7.0 | 92.1 | | | | | | |
| 7.5 | 92.3 | | | | | | |
| 8.0 | 92.0 | | | | | | |
| 8.5 | 92.0 | | | | | | |
| 9.0 | 92.0 | | | | | | |
| 9.5 | 92.7 | | | | | | |
| 10.0 | 92.0 | | | | | | |
| 10.5 | 92.2 | | | | | | |

RUN #9: 400 HZ 30 DB PEAK ABOVE RMS NOISE

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 98.4 | | | | | | |
| 1.0 | 99.0 | | | | | | |
| 1.5 | 98.4 | | | | | | |
| 2.0 | 98.7 | | | | | | |
| 2.5 | 98.5 | | | | | | |
| 3.0 | 98.5 | | | | | | |
| 3.5 | 99.1 | | | | | | |
| 4.0 | 98.2 | | | | | | |
| 4.5 | 98.7 | | | | | | |
| 5.0 | 98.8 | | | | | | |
| 5.5 | 98.7 | | | | | | |
| 6.0 | 97.9 | | | | | | |
| 6.5 | 97.9 | | | | | | |
| 7.0 | 98.6 | | | | | | |
| 7.5 | 98.4 | | | | | | |
| 8.0 | 98.4 | | | | | | |
| 8.5 | 98.6 | | | | | | |
| 9.0 | 98.8 | | | | | | |
| 9.5 | 98.5 | | | | | | |
| 10.0 | 98.0 | | | | | | |
| 10.5 | 98.6 | | | | | | |

RUN #10: 800 HZ 30 DB PEAK ABOVE RMS NOISE

| TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL | TIME | PEAK SPL |
|---|---|---|---|---|---|---|---|
| 0.5 | 103.0 | | | | | | |
| 1.0 | 103.0 | | | | | | |
| 1.5 | 102.8 | | | | | | |
| 2.0 | 103.2 | | | | | | |
| 2.5 | 103.0 | | | | | | |
| 3.0 | 102.9 | | | | | | |
| 3.5 | 103.2 | | | | | | |
| 4.0 | 102.9 | | | | | | |
| 4.5 | 103.0 | | | | | | |
| 5.0 | 103.1 | | | | | | |
| 5.5 | 102.8 | | | | | | |
| 6.0 | 103.1 | | | | | | |
| 6.5 | 103.0 | | | | | | |
| 7.0 | 102.8 | | | | | | |
| 7.5 | 103.0 | | | | | | |
| 8.0 | 103.1 | | | | | | |
| 8.5 | 103.3 | | | | | | |
| 9.0 | 102.8 | | | | | | |
| 9.5 | 103.5 | | | | | | |
| 10.0 | 103.5 | | | | | | |
| 10.5 | 103.3 | | | | | | |
| 11.0 | 103.2 | | | | | | |

SHAPED NOISE : RUN #1, 3-25-77

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 68.5 | 1.4 | 69.9 | 62.4 | 61.0 | 64.2 | 71.2 | 1.1 |
| 0.5 | 79.8 | 2.5 | 82.3 | 73.0 | 71.4 | 74.5 | 81.5 | 2.4 |
| 1.0 | 82.2 | 2.6 | 84.8 | 75.3 | 73.6 | 76.8 | 83.8 | 2.4 |
| 1.5 | 83.1 | 2.7 | 85.8 | 76.2 | 74.5 | 77.6 | 84.6 | 2.4 |
| 2.0 | 83.6 | 2.6 | 86.2 | 76.7 | 75.1 | 78.1 | 85.1 | 2.4 |
| 2.5 | 83.9 | 2.6 | 86.5 | 76.9 | 75.2 | 78.3 | 85.3 | 2.4 |
| 3.0 | 84.0 | 2.6 | 86.6 | 77.0 | 75.3 | 78.4 | 85.4 | 2.4 |
| 3.5 | 84.1 | 2.6 | 86.7 | 77.3 | 75.4 | 78.6 | 85.6 | 2.4 |
| 4.0 | 84.1 | 2.6 | 86.7 | 77.3 | 75.4 | 78.6 | 85.6 | 2.4 |
| 4.5 | 84.0 | 2.6 | 86.6 | 77.2 | 75.3 | 78.5 | 85.5 | 2.4 |
| 5.0 | 84.0 | 2.6 | 86.6 | 77.1 | 75.4 | 78.5 | 85.5 | 2.4 |
| 5.5 | 84.0 | 2.6 | 86.6 | 77.2 | 75.4 | 78.5 | 85.5 | 2.4 |
| 6.0 | 84.0 | 2.6 | 86.6 | 77.3 | 75.5 | 78.6 | 85.6 | 2.4 |
| 6.5 | 84.1 | 2.6 | 86.7 | 77.3 | 75.5 | 78.6 | 85.6 | 2.4 |
| 7.0 | 84.2 | 2.6 | 86.8 | 77.4 | 75.6 | 78.7 | 85.7 | 2.4 |
| 7.5 | 84.2 | 2.5 | 86.7 | 77.3 | 75.6 | 78.7 | 85.7 | 2.4 |
| 8.0 | 84.1 | 2.5 | 86.6 | 77.2 | 75.7 | 78.7 | 85.7 | 2.4 |
| 8.5 | 84.0 | 2.5 | 86.5 | 77.1 | 75.5 | 78.6 | 85.6 | 2.4 |
| 9.0 | 84.0 | 2.5 | 86.5 | 77.1 | 75.6 | 78.6 | 85.6 | 2.4 |
| 9.5 | 84.1 | 2.5 | 86.6 | 77.2 | 75.6 | 78.7 | 85.7 | 2.4 |
| 10.0 | 84.1 | 2.5 | 86.6 | 77.2 | 75.5 | 78.6 | 85.6 | 2.4 |
| 10.5 | 84.0 | 2.5 | 86.5 | 77.1 | 75.4 | 78.5 | 85.5 | 2.4 |

MAXIMUM VALUES IN BANDS, PNLC = 84.5

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 56.0 | 59.9 | 64.6 | 65.9 | 61.9 | 59.4 | 54.9 | 52.2 | 59.3 | 63.2 |
| 70.6 | 69.4 | 68.2 | 68.2 | 68.4 | 64.8 | 60.9 | 54.1 | 43.0 | 47.9 |
| 51.0 | 45.5 | 35.0 | 40.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 52.8 | 59.7 | 63.4 | 65.4 | 61.8 | 58.8 | 53.0 | 50.5 | 58.8 | 62.1 |
| 70.1 | 69.0 | 68.2 | 68.2 | 68.2 | 64.7 | 60.8 | 54.0 | 43.0 | 47.7 |
| 51.0 | 45.5 | 35.0 | 40.0 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 1.5 | 2.7 | | | | | | |
| PNL | 7.0 | 84.2 | 10.5 | 93.8 | 10.5 | 93.8 | 82.7 | 79.6 |
| PNLT | 7.0 | 86.8 | 10.5 | 96.3 | 10.5 | 96.3 | 85.3 | 82.2 |
| A-LEV | 8.0 | 75.7 | 10.5 | 85.2 | 10.5 | 85.2 | 74.2 | 71.1 |
| N-LEV | 7.0 | 85.7 | 10.5 | 95.3 | 10.5 | 95.3 | 84.2 | 81.1 |

EPNL = 86.3

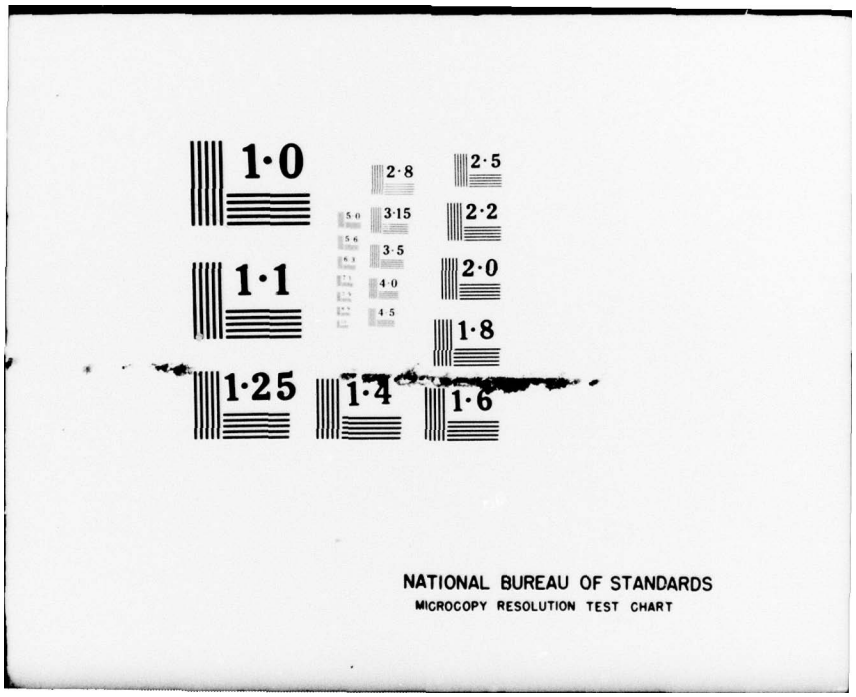
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PHYSICAL ANALYSIS OF THE IMPULSIVE ASPECTS OF HELICOPTER NOISE.(U)
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MICROCOPY RESOLUTION TEST CHART

SHAPED NOISE : RUN #1, 3-25-77

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 68.5 | 1.4 | 69.9 | 62.4 | 61.0 | 64.2 | 71.2 | 1.1 |
| 0.5 | 79.8 | 2.5 | 82.3 | 73.0 | 71.4 | 74.5 | 81.5 | 2.4 |
| 1.0 | 82.2 | 2.6 | 84.8 | 75.3 | 73.6 | 76.8 | 83.8 | 2.4 |
| 1.5 | 83.1 | 2.7 | 85.8 | 76.2 | 74.5 | 77.6 | 84.6 | 2.4 |
| 2.0 | 83.6 | 2.6 | 86.2 | 76.7 | 75.1 | 78.1 | 85.1 | 2.4 |
| 2.5 | 83.9 | 2.6 | 86.5 | 76.9 | 75.2 | 78.3 | 85.3 | 2.4 |
| 3.0 | 84.0 | 2.6 | 86.6 | 77.0 | 75.3 | 78.4 | 85.4 | 2.4 |
| 3.5 | 84.1 | 2.6 | 86.7 | 77.3 | 75.4 | 78.6 | 85.6 | 2.4 |
| 4.0 | 84.1 | 2.6 | 86.7 | 77.3 | 75.4 | 78.6 | 85.6 | 2.4 |
| 4.5 | 84.0 | 2.6 | 86.6 | 77.2 | 75.3 | 78.5 | 85.5 | 2.4 |
| 5.0 | 84.0 | 2.6 | 86.6 | 77.1 | 75.4 | 78.5 | 85.5 | 2.4 |
| 5.5 | 84.0 | 2.6 | 86.6 | 77.2 | 75.4 | 78.5 | 85.5 | 2.4 |
| 6.0 | 84.0 | 2.6 | 86.6 | 77.3 | 75.5 | 78.6 | 85.6 | 2.4 |
| 6.5 | 84.1 | 2.6 | 86.7 | 77.3 | 75.5 | 78.6 | 85.6 | 2.4 |
| 7.0 | 84.2 | 2.6 | 86.8 | 77.4 | 75.6 | 78.7 | 85.7 | 2.4 |
| 7.5 | 84.2 | 2.5 | 86.7 | 77.3 | 75.6 | 78.7 | 85.7 | 2.4 |
| 8.0 | 84.1 | 2.5 | 86.6 | 77.2 | 75.7 | 78.7 | 85.7 | 2.4 |
| 8.5 | 84.0 | 2.5 | 86.5 | 77.1 | 75.5 | 78.6 | 85.6 | 2.4 |
| 9.0 | 84.0 | 2.5 | 86.5 | 77.1 | 75.6 | 78.6 | 85.6 | 2.4 |
| 9.5 | 84.1 | 2.5 | 86.6 | 77.2 | 75.6 | 78.7 | 85.7 | 2.4 |
| 10.0 | 84.1 | 2.5 | 86.6 | 77.2 | 75.5 | 78.6 | 85.6 | 2.4 |
| 10.5 | 84.0 | 2.5 | 86.5 | 77.1 | 75.4 | 78.5 | 85.5 | 2.4 |

MAXIMUM VALUES IN BANDS, PNLC = 84.5

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 56.0 | 59.9 | 64.6 | 65.9 | 61.9 | 59.4 | 54.9 | 52.2 | 59.3 | 63.2 |
| 70.6 | 69.4 | 68.2 | 68.2 | 68.4 | 64.8 | 60.9 | 54.1 | 43.0 | 47.9 |
| 51.0 | 45.5 | 35.0 | 40.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 52.8 | 59.7 | 63.4 | 65.4 | 61.8 | 58.8 | 53.0 | 50.5 | 58.8 | 62.1 |
| 70.1 | 69.0 | 68.2 | 68.2 | 68.2 | 64.7 | 60.8 | 54.0 | 43.0 | 47.7 |
| 51.0 | 45.5 | 35.0 | 40.0 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 1.5 | 2.7 | | | | | | |
| PNL | 7.0 | 84.2 | 10.5 | 93.8 | 10.5 | 93.8 | 82.7 | 79.6 |
| PNLT | 7.0 | 86.8 | 10.5 | 96.3 | 10.5 | 96.3 | 85.3 | 82.2 |
| A-LEV | 8.0 | 75.7 | 10.5 | 85.2 | 10.5 | 85.2 | 74.2 | 71.1 |
| N-LEV | 7.0 | 85.7 | 10.5 | 95.3 | 10.5 | 95.3 | 84.2 | 81.1 |

EPNL = 86.3

200 HZ. COMP., RUN #2, 10 DB PEAK ABOVE RMS NOISE

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 51.4 | 1.5 | 52.9 | 48.1 | 45.5 | 48.8 | 55.8 | 1.1 |
| 0.5 | 79.3 | 2.1 | 81.4 | 72.5 | 70.3 | 73.6 | 80.6 | 2.1 |
| 1.0 | 82.3 | 2.5 | 84.8 | 75.4 | 73.2 | 76.5 | 83.5 | 2.4 |
| 1.5 | 83.1 | 2.6 | 86.0 | 76.6 | 74.4 | 77.6 | 84.6 | 2.4 |
| 2.0 | 83.9 | 2.7 | 86.6 | 77.1 | 74.7 | 77.9 | 84.9 | 2.4 |
| 2.5 | 84.4 | 2.7 | 87.1 | 77.6 | 75.2 | 78.4 | 85.4 | 2.4 |
| 3.0 | 84.8 | 2.7 | 87.5 | 77.9 | 75.5 | 78.8 | 85.8 | 2.4 |
| 3.5 | 84.9 | 2.6 | 87.5 | 78.0 | 75.6 | 78.8 | 85.8 | 2.4 |
| 4.0 | 84.9 | 2.6 | 87.5 | 78.0 | 75.7 | 78.9 | 85.9 | 2.4 |
| 4.5 | 84.9 | 2.7 | 87.6 | 78.1 | 75.7 | 78.9 | 85.9 | 2.4 |
| 5.0 | 84.8 | 2.6 | 87.4 | 78.0 | 75.6 | 78.9 | 85.9 | 2.4 |
| 5.5 | 85.1 | 2.6 | 87.7 | 78.2 | 75.8 | 79.1 | 86.1 | 2.4 |
| 6.0 | 85.0 | 2.7 | 87.7 | 78.1 | 75.6 | 78.9 | 85.9 | 2.4 |
| 6.5 | 84.9 | 2.6 | 87.5 | 78.1 | 75.7 | 78.9 | 85.9 | 2.4 |
| 7.0 | 85.0 | 2.5 | 87.5 | 78.2 | 75.7 | 79.0 | 86.0 | 2.4 |
| 7.5 | 84.9 | 2.7 | 87.6 | 78.1 | 75.7 | 78.9 | 85.9 | 2.4 |
| 8.0 | 85.1 | 2.6 | 87.7 | 78.2 | 75.8 | 79.0 | 86.0 | 2.4 |
| 8.5 | 85.0 | 2.6 | 87.6 | 78.2 | 75.7 | 79.0 | 86.0 | 2.4 |
| 9.0 | 85.1 | 2.5 | 87.6 | 78.2 | 75.9 | 79.1 | 86.1 | 2.4 |
| 9.5 | 84.9 | 2.5 | 87.4 | 78.1 | 75.7 | 78.9 | 85.9 | 2.4 |
| 10.0 | 85.0 | 2.6 | 87.6 | 78.1 | 75.7 | 79.0 | 86.0 | 2.4 |
| 10.5 | 84.4 | 2.6 | 87.0 | 77.6 | 75.2 | 78.4 | 85.4 | 2.4 |

MAXIMUM VALUES IN BANDS, PNLC = 85.3

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 58.1 | 60.8 | 65.7 | 66.9 | 64.7 | 64.7 | 64.8 | 63.5 | 61.2 | 63.2 |
| 70.7 | 69.7 | 67.9 | 68.3 | 68.5 | 64.9 | 61.3 | 54.1 | 43.0 | 48.0 |
| 51.1 | 45.6 | 35.0 | 40.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 56.7 | 59.9 | 64.7 | 66.5 | 63.8 | 64.4 | 64.6 | 63.1 | 61.2 | 62.8 |
| 70.7 | 69.5 | 67.7 | 68.2 | 68.2 | 64.6 | 61.3 | 53.8 | 42.9 | 47.6 |
| 51.0 | 45.5 | 34.7 | 39.8 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 2.0 | 2.7 | | | | | | |
| PNL | 5.5 | 85.1 | 10.5 | 94.5 | 10.5 | 94.5 | 83.6 | 80.5 |
| PNLT | 5.5 | 87.7 | 10.5 | 97.1 | 10.5 | 97.1 | 86.2 | 83.1 |
| A-LEV | 7.0 | 75.9 | 10.5 | 85.3 | 10.5 | 85.3 | 74.4 | 71.3 |
| N-LEV | 5.5 | 86.1 | 10.5 | 95.5 | 10.5 | 95.5 | 84.6 | 81.5 |

EPNL = 87.1

400 HZ. COMP., RUN #3, 10 DB PEAK ABOVE RMS NOISE

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 40.5 | 6.7 | 47.2 | 41.4 | 39.5 | 41.3 | 48.3 | 1.1 |
| 0.5 | 78.6 | 2.0 | 80.6 | 71.9 | 69.8 | 73.0 | 80.0 | 2.1 |
| 1.0 | 81.8 | 2.6 | 84.4 | 74.9 | 73.0 | 76.1 | 83.1 | 2.4 |
| 1.5 | 83.2 | 2.6 | 85.8 | 76.3 | 74.3 | 77.4 | 84.4 | 2.4 |
| 2.0 | 83.6 | 2.5 | 86.1 | 76.7 | 74.8 | 77.9 | 84.9 | 2.4 |
| 2.5 | 83.9 | 2.6 | 86.5 | 76.9 | 74.9 | 78.1 | 85.1 | 2.4 |
| 3.0 | 83.9 | 2.6 | 86.5 | 77.0 | 75.1 | 78.3 | 85.3 | 2.4 |
| 3.5 | 84.1 | 2.6 | 86.7 | 77.2 | 75.4 | 78.5 | 85.5 | 2.4 |
| 4.0 | 84.3 | 2.6 | 86.9 | 77.4 | 75.5 | 78.6 | 85.6 | 2.4 |
| 4.5 | 84.4 | 2.7 | 87.1 | 77.5 | 75.5 | 78.7 | 85.7 | 2.4 |
| 5.0 | 84.3 | 2.6 | 86.9 | 77.5 | 75.5 | 78.6 | 85.6 | 2.4 |
| 5.5 | 84.3 | 2.6 | 86.9 | 77.4 | 75.5 | 78.6 | 85.6 | 2.4 |
| 6.0 | 84.4 | 2.6 | 87.0 | 77.5 | 75.5 | 78.6 | 85.6 | 2.4 |
| 6.5 | 84.5 | 2.6 | 87.1 | 77.5 | 75.6 | 78.7 | 85.7 | 2.4 |
| 7.0 | 84.4 | 2.6 | 87.0 | 77.5 | 75.5 | 78.7 | 85.7 | 2.4 |
| 7.5 | 84.4 | 2.6 | 87.0 | 77.3 | 75.5 | 78.7 | 85.7 | 2.4 |
| 8.0 | 84.6 | 2.6 | 87.2 | 77.4 | 75.5 | 78.7 | 85.7 | 2.4 |
| 8.5 | 84.6 | 2.7 | 87.3 | 77.6 | 75.6 | 78.8 | 85.8 | 2.4 |
| 9.0 | 84.5 | 2.6 | 87.1 | 77.5 | 75.6 | 78.7 | 85.7 | 2.4 |
| 9.5 | 84.4 | 2.6 | 87.0 | 77.6 | 75.6 | 78.7 | 85.7 | 2.4 |
| 10.0 | 84.2 | 2.6 | 86.8 | 77.4 | 75.4 | 78.5 | 85.5 | 2.4 |
| 10.5 | 84.3 | 2.6 | 86.9 | 77.4 | 75.5 | 78.6 | 85.6 | 2.4 |

MAXIMUM VALUES IN BANDS, PNLC = 84.8

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 55.3 | 58.4 | 64.0 | 65.5 | 62.5 | 60.3 | 58.5 | 59.2 | 61.8 | 64.7 |
| 71.1 | 69.7 | 67.8 | 67.9 | 68.0 | 64.7 | 61.0 | 54.0 | 42.8 | 47.6 |
| 50.8 | 45.2 | 34.7 | 39.8 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 52.6 | 57.6 | 63.7 | 64.9 | 61.1 | 59.9 | 57.5 | 58.8 | 61.1 | 64.1 |
| 71.0 | 69.5 | 67.5 | 67.5 | 67.8 | 64.5 | 60.7 | 53.9 | 42.7 | 47.5 |
| 50.7 | 45.2 | 34.5 | 39.6 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 0.0 | 6.7 | | | | | | |
| PNL | 8.0 | 84.6 | 10.5 | 94.0 | 10.5 | 94.0 | 83.1 | 80.0 |
| PNLT | 8.5 | 87.3 | 10.5 | 96.6 | 10.5 | 96.6 | 85.8 | 82.7 |
| A-LEV | 6.5 | 75.6 | 10.5 | 85.1 | 10.5 | 85.1 | 74.1 | 71.0 |
| N-LEV | 8.5 | 85.8 | 10.5 | 95.2 | 10.5 | 95.2 | 84.3 | 81.2 |

EPNL = 86.6

800 HZ. COMP., RUNN #4, 10 DB PEAK ABOVE RMS NOISE

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 80.3 | 6.7 | 87.0 | 54.9 | 53.7 | 57.1 | 64.1 | 1.1 |
| 0.5 | 79.2 | 2.3 | 81.5 | 72.5 | 70.8 | 73.8 | 80.8 | 2.4 |
| 1.0 | 81.9 | 2.5 | 84.4 | 75.1 | 73.4 | 76.5 | 83.5 | 2.4 |
| 1.5 | 83.0 | 2.5 | 85.5 | 76.2 | 74.5 | 77.6 | 84.6 | 2.4 |
| 2.0 | 83.3 | 2.7 | 86.0 | 76.6 | 74.9 | 78.0 | 85.0 | 2.4 |
| 2.5 | 83.7 | 2.6 | 86.3 | 76.9 | 75.2 | 78.2 | 85.2 | 2.4 |
| 3.0 | 83.9 | 2.5 | 86.4 | 77.0 | 75.2 | 78.4 | 85.4 | 2.4 |
| 3.5 | 83.9 | 2.6 | 86.5 | 77.1 | 75.5 | 78.5 | 85.5 | 2.4 |
| 4.0 | 84.0 | 2.6 | 86.6 | 77.3 | 75.5 | 78.6 | 85.6 | 2.4 |
| 4.5 | 84.0 | 2.5 | 86.5 | 77.2 | 75.5 | 78.5 | 85.5 | 2.4 |
| 5.0 | 84.0 | 2.5 | 86.5 | 77.2 | 75.6 | 78.6 | 85.6 | 2.4 |
| 5.5 | 84.0 | 2.6 | 86.6 | 77.2 | 75.5 | 78.6 | 85.6 | 2.4 |
| 6.0 | 84.0 | 2.6 | 86.6 | 77.3 | 75.6 | 78.6 | 85.6 | 2.4 |
| 6.5 | 83.9 | 2.6 | 86.5 | 77.1 | 75.4 | 78.5 | 85.5 | 2.4 |
| 7.0 | 83.8 | 2.5 | 86.3 | 77.0 | 75.3 | 78.4 | 85.4 | 2.4 |
| 7.5 | 84.0 | 2.5 | 86.5 | 77.2 | 75.6 | 78.6 | 85.6 | 2.4 |
| 8.0 | 84.1 | 2.5 | 86.6 | 77.2 | 75.6 | 78.6 | 85.6 | 2.4 |
| 8.5 | 84.1 | 2.5 | 86.6 | 77.3 | 75.6 | 78.7 | 85.7 | 2.4 |
| 9.0 | 83.9 | 2.5 | 86.4 | 77.2 | 75.4 | 78.5 | 85.5 | 2.4 |
| 9.5 | 84.0 | 2.7 | 86.7 | 77.2 | 75.4 | 78.5 | 85.5 | 2.4 |
| 10.0 | 84.1 | 2.6 | 86.7 | 77.3 | 75.5 | 78.6 | 85.6 | 2.4 |
| 10.5 | 84.0 | 2.5 | 86.5 | 77.2 | 75.3 | 78.4 | 85.4 | 2.4 |

MAXIMUM VALUES IN BANDS, PNLC = 84.4

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 54.9 | 58.8 | 64.3 | 66.1 | 62.2 | 58.6 | 54.3 | 53.1 | 59.5 | 63.4 |
| 70.6 | 69.7 | 68.1 | 68.4 | 68.2 | 64.6 | 60.9 | 54.0 | 43.2 | 47.7 |
| 50.9 | 45.6 | 35.0 | 39.8 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 53.3 | 58.1 | 64.3 | 65.3 | 61.1 | 58.4 | 53.7 | 52.2 | 58.3 | 62.2 |
| 70.2 | 69.0 | 68.0 | 68.2 | 67.6 | 64.3 | 60.5 | 53.9 | 43.1 | 47.6 |
| 50.7 | 45.4 | 34.7 | 39.8 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 0.0 | 6.7 | | | | | | |
| PNL | 8.0 | 84.1 | 10.5 | 93.7 | 10.5 | 93.7 | 82.6 | 79.5 |
| PNLT | 9.5 | 86.7 | 10.5 | 96.2 | 10.5 | 96.2 | 85.2 | 82.1 |
| A-LEV | 5.0 | 75.6 | 10.5 | 85.2 | 10.5 | 85.2 | 74.1 | 71.0 |
| N-LEV | 8.5 | 85.7 | 10.5 | 95.2 | 10.5 | 95.2 | 84.2 | 81.1 |

EPNL = 86.2

200 HZ. COMP., RUN #5, 20 DB PEAK ABOVE RMS NOISE

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 63.2 | 2.0 | 65.2 | 56.7 | 53.7 | 57.7 | 64.7 | 1.1 |
| 0.5 | 81.1 | 2.1 | 83.2 | 75.3 | 70.9 | 74.7 | 81.7 | 2.1 |
| 1.0 | 83.8 | 2.2 | 86.0 | 78.6 | 73.5 | 77.4 | 84.4 | 2.4 |
| 1.5 | 85.0 | 2.1 | 87.1 | 79.9 | 74.6 | 78.7 | 85.7 | 2.1 |
| 2.0 | 85.8 | 2.2 | 88.0 | 80.6 | 75.3 | 79.4 | 86.4 | 2.4 |
| 2.5 | 86.1 | 2.2 | 88.3 | 81.1 | 75.6 | 79.7 | 86.7 | 2.4 |
| 3.0 | 86.2 | 2.3 | 88.5 | 81.1 | 75.7 | 79.8 | 86.8 | 2.4 |
| 3.5 | 86.2 | 2.3 | 88.5 | 81.2 | 75.7 | 79.9 | 86.9 | 2.4 |
| 4.0 | 86.3 | 2.3 | 88.6 | 81.3 | 75.7 | 79.9 | 86.9 | 2.4 |
| 4.5 | 86.3 | 2.3 | 88.6 | 81.3 | 75.6 | 79.9 | 86.9 | 2.4 |
| 5.0 | 86.5 | 2.3 | 88.8 | 81.3 | 75.7 | 80.0 | 87.0 | 2.4 |
| 5.5 | 86.4 | 2.3 | 88.7 | 81.3 | 75.6 | 79.9 | 86.9 | 2.4 |
| 6.0 | 86.3 | 2.2 | 88.5 | 81.2 | 75.7 | 79.9 | 86.9 | 2.4 |
| 6.5 | 86.3 | 2.3 | 88.6 | 81.2 | 75.6 | 79.8 | 86.8 | 2.4 |
| 7.0 | 86.3 | 2.3 | 88.6 | 81.3 | 75.6 | 79.9 | 86.9 | 2.4 |
| 7.5 | 86.4 | 2.3 | 88.7 | 81.3 | 75.6 | 79.9 | 86.9 | 2.4 |
| 8.0 | 86.4 | 2.3 | 88.7 | 81.3 | 75.6 | 79.9 | 86.9 | 2.4 |
| 8.5 | 86.3 | 2.3 | 88.6 | 81.2 | 75.7 | 79.9 | 86.9 | 2.4 |
| 9.0 | 86.2 | 2.2 | 88.4 | 81.1 | 75.7 | 79.8 | 86.8 | 2.4 |
| 9.5 | 86.2 | 2.3 | 88.5 | 81.1 | 75.7 | 79.8 | 86.8 | 2.4 |
| 10.0 | 86.2 | 2.3 | 88.5 | 81.1 | 75.7 | 79.8 | 86.8 | 2.4 |
| 10.5 | 86.3 | 2.3 | 88.6 | 81.2 | 75.6 | 79.8 | 86.8 | 2.4 |

MAXIMUM VALUES IN BANDS, PNLC = 86.7

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 61.6 | 64.9 | 69.0 | 71.1 | 71.2 | 72.6 | 73.9 | 72.4 | 67.4 | 63.4 |
| 70.4 | 68.8 | 67.2 | 67.4 | 67.6 | 64.2 | 60.5 | 53.8 | 42.4 | 47.2 |
| 50.6 | 45.3 | 35.8 | 40.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 60.4 | 64.9 | 67.1 | 70.7 | 70.9 | 72.6 | 73.9 | 72.3 | 67.2 | 62.6 |
| 69.7 | 68.5 | 67.2 | 66.9 | 67.1 | 64.1 | 60.5 | 53.6 | 42.4 | 47.2 |
| 50.5 | 45.1 | 35.6 | 40.0 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 3.0 | 2.3 | | | | | | |
| PNL | 5.0 | 86.5 | 10.5 | 96.0 | 10.5 | 96.0 | 85.0 | 81.9 |
| PNLT | 5.0 | 88.8 | 10.5 | 98.2 | 10.5 | 98.2 | 87.3 | 84.2 |
| A-LEV | 3.0 | 75.7 | 10.5 | 85.4 | 10.5 | 85.4 | 74.2 | 71.1 |
| N-LEV | 5.0 | 87.0 | 10.5 | 96.5 | 10.5 | 96.5 | 85.5 | 82.4 |

EPNL = 88.2

400 HZ. COMP., RUN #6, 20 DB PEAK ABOVE RMS NOISE

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 53.7 | 6.7 | 60.4 | 49.9 | 47.4 | 50.7 | 57.7 | 1.1 |
| 0.5 | 80.1 | 2.0 | 82.1 | 73.2 | 70.4 | 73.8 | 80.8 | 2.1 |
| 1.0 | 83.1 | 2.2 | 85.3 | 76.3 | 73.5 | 76.9 | 83.9 | 2.4 |
| 1.5 | 84.6 | 2.2 | 86.8 | 77.7 | 74.8 | 78.2 | 85.2 | 2.4 |
| 2.0 | 85.2 | 2.3 | 87.5 | 78.5 | 75.5 | 78.9 | 85.9 | 2.4 |
| 2.5 | 85.6 | 2.3 | 87.9 | 78.8 | 75.7 | 79.2 | 86.2 | 2.4 |
| 3.0 | 85.7 | 2.2 | 87.9 | 78.9 | 75.9 | 79.3 | 86.3 | 2.4 |
| 3.5 | 85.6 | 2.3 | 87.9 | 78.9 | 75.9 | 79.4 | 86.4 | 2.4 |
| 4.0 | 85.7 | 2.2 | 87.9 | 79.1 | 75.9 | 79.4 | 86.4 | 2.4 |
| 4.5 | 85.9 | 2.2 | 88.1 | 79.2 | 76.1 | 79.6 | 86.6 | 2.4 |
| 5.0 | 85.9 | 2.2 | 88.1 | 79.3 | 76.1 | 79.6 | 86.6 | 2.4 |
| 5.5 | 86.2 | 2.2 | 88.4 | 79.4 | 76.2 | 79.7 | 86.7 | 2.4 |
| 6.0 | 85.9 | 2.2 | 88.1 | 79.1 | 76.0 | 79.5 | 86.5 | 2.4 |
| 6.5 | 85.8 | 2.2 | 88.0 | 79.1 | 76.0 | 79.5 | 86.5 | 2.4 |
| 7.0 | 85.8 | 2.2 | 88.0 | 79.2 | 76.0 | 79.5 | 86.5 | 2.4 |
| 7.5 | 86.1 | 2.2 | 88.3 | 79.4 | 76.2 | 79.7 | 86.7 | 2.4 |
| 8.0 | 86.1 | 2.2 | 88.3 | 79.4 | 76.2 | 79.7 | 86.7 | 2.4 |
| 8.5 | 85.9 | 2.2 | 88.1 | 79.3 | 76.2 | 79.7 | 86.7 | 2.4 |
| 9.0 | 85.9 | 2.3 | 88.2 | 79.3 | 76.3 | 79.7 | 86.7 | 2.4 |
| 9.5 | 85.8 | 2.2 | 88.0 | 79.2 | 76.1 | 79.6 | 86.6 | 2.4 |
| 10.0 | 85.9 | 2.2 | 88.1 | 79.2 | 76.0 | 79.6 | 86.6 | 2.4 |
| 10.5 | 85.9 | 2.2 | 88.1 | 79.3 | 76.1 | 79.6 | 86.6 | 2.4 |

MAXIMUM VALUES IN BANDS, PNLC = 86.4

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 55.5 | 60.0 | 64.5 | 66.0 | 63.6 | 64.5 | 66.5 | 68.3 | 69.1 | 70.0 |
| 72.5 | 70.6 | 67.6 | 67.6 | 67.5 | 64.2 | 60.4 | 53.7 | 42.6 | 47.1 |
| 50.2 | 44.8 | 35.6 | 39.8 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 54.1 | 59.0 | 64.5 | 65.9 | 62.9 | 63.9 | 66.2 | 68.2 | 69.1 | 69.6 |
| 72.5 | 69.9 | 67.0 | 67.1 | 67.1 | 64.2 | 60.3 | 53.5 | 42.5 | 46.9 |
| 50.1 | 44.8 | 35.6 | 39.6 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 0.0 | 6.7 | | | | | | |
| PNL | 5.5 | 86.2 | 10.5 | 95.5 | 10.5 | 95.5 | 84.7 | 81.6 |
| PNLT | 5.5 | 88.4 | 10.5 | 97.7 | 10.5 | 97.7 | 86.9 | 83.8 |
| A-LEV | 9.0 | 76.3 | 10.5 | 85.7 | 10.5 | 85.7 | 74.8 | 71.7 |
| N-LEV | 5.5 | 86.7 | 10.5 | 96.2 | 10.5 | 96.2 | 85.2 | 82.1 |

FPNL = 87.7

800 HZ. COMP., RUN #7, 20 DB PEAK ABOVE RMS NOISE

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 64.3 | 0.0 | 64.3 | 65.5 | 54.8 | 60.0 | 67.0 | 0.1 |
| 0.5 | 80.1 | 1.9 | 82.0 | 73.5 | 71.4 | 74.4 | 81.4 | 2.4 |
| 1.0 | 82.5 | 2.1 | 84.6 | 75.8 | 73.8 | 76.8 | 83.8 | 2.4 |
| 1.5 | 83.6 | 2.1 | 85.7 | 76.9 | 75.1 | 78.0 | 85.0 | 2.4 |
| 2.0 | 84.0 | 2.1 | 86.1 | 77.4 | 75.5 | 78.4 | 85.4 | 2.4 |
| 2.5 | 84.1 | 2.1 | 86.2 | 77.5 | 75.7 | 78.6 | 85.6 | 2.4 |
| 3.0 | 84.3 | 2.1 | 86.4 | 77.7 | 76.0 | 78.9 | 85.9 | 2.4 |
| 3.5 | 84.4 | 2.2 | 86.6 | 77.7 | 76.0 | 78.9 | 85.9 | 2.4 |
| 4.0 | 84.4 | 2.1 | 86.5 | 77.7 | 75.9 | 78.8 | 85.8 | 2.4 |
| 4.5 | 84.6 | 2.1 | 86.7 | 77.8 | 76.0 | 78.9 | 85.9 | 2.4 |
| 5.0 | 84.5 | 2.1 | 86.6 | 77.8 | 76.2 | 79.0 | 86.0 | 2.4 |
| 5.5 | 84.7 | 2.2 | 86.9 | 77.9 | 76.2 | 79.1 | 86.1 | 2.4 |
| 6.0 | 84.8 | 2.2 | 87.0 | 78.1 | 76.4 | 79.2 | 86.2 | 2.4 |
| 6.5 | 84.8 | 2.2 | 87.0 | 78.0 | 76.3 | 79.1 | 86.1 | 2.4 |
| 7.0 | 84.8 | 2.1 | 86.9 | 78.0 | 76.1 | 79.1 | 86.1 | 2.4 |
| 7.5 | 84.6 | 2.2 | 86.8 | 77.8 | 76.1 | 79.0 | 86.0 | 2.4 |
| 8.0 | 84.6 | 2.1 | 86.7 | 77.9 | 76.0 | 78.9 | 85.9 | 2.4 |
| 8.5 | 84.5 | 2.2 | 86.7 | 77.8 | 75.9 | 78.8 | 85.8 | 2.4 |
| 9.0 | 84.5 | 2.3 | 86.8 | 77.9 | 76.1 | 78.9 | 85.9 | 2.4 |
| 9.5 | 84.6 | 2.1 | 86.7 | 77.9 | 76.0 | 78.9 | 85.9 | 2.4 |
| 10.0 | 84.4 | 2.2 | 86.6 | 77.8 | 76.0 | 78.9 | 85.9 | 2.4 |
| 10.5 | 83.9 | 2.1 | 86.0 | 77.2 | 75.5 | 78.4 | 85.4 | 2.4 |

MAXIMUM VALUES IN BANDS, PNLC = 85.0

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 59.9 | 60.1 | 63.9 | 65.2 | 61.4 | 59.2 | 57.2 | 58.6 | 61.9 | 65.2 |
| 71.1 | 70.3 | 69.2 | 69.5 | 68.5 | 64.2 | 60.6 | 53.8 | 44.1 | 47.7 |
| 50.6 | 45.1 | 35.9 | 39.8 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 54.0 | 58.8 | 62.1 | 64.8 | 61.0 | 59.1 | 56.6 | 58.5 | 61.9 | 65.1 |
| 71.0 | 70.2 | 69.2 | 69.5 | 68.5 | 64.1 | 60.3 | 53.7 | 44.0 | 47.6 |
| 50.5 | 45.0 | 35.9 | 39.8 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 9.0 | 2.3 | | | | | | |
| PNL | 6.0 | 84.8 | 10.5 | 94.2 | 10.5 | 94.2 | 83.3 | 80.2 |
| PNLT | 6.0 | 87.0 | 10.5 | 96.4 | 10.5 | 96.4 | 85.5 | 82.4 |
| A-LEV | 6.0 | 76.4 | 10.5 | 85.7 | 10.5 | 85.7 | 74.9 | 71.8 |
| N-LEV | 6.0 | 86.2 | 10.5 | 95.6 | 10.5 | 95.6 | 84.7 | 81.6 |

EPNL = 86.4

200 HZ. COMP., RUN #8, 30 DB PEAK ABOVE RMS NOISE

| T | PNL | P. T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 65.7 | 2.0 | 67.7 | 59.6 | 56.5 | 60.0 | 67.0 | 1.1 |
| 0.5 | 84.1 | 2.0 | 86.1 | 80.8 | 71.5 | 77.3 | 84.3 | 2.1 |
| 1.0 | 87.5 | 2.0 | 89.5 | 84.1 | 74.7 | 80.7 | 87.7 | 2.1 |
| 1.5 | 89.0 | 2.0 | 91.0 | 85.6 | 76.1 | 82.2 | 89.2 | 2.1 |
| 2.0 | 89.7 | 2.1 | 91.8 | 86.4 | 76.8 | 83.0 | 90.0 | 2.1 |
| 2.5 | 90.0 | 2.0 | 92.0 | 86.7 | 77.1 | 83.2 | 90.2 | 2.1 |
| 3.0 | 90.3 | 2.0 | 92.3 | 87.0 | 77.3 | 83.5 | 90.5 | 2.1 |
| 3.5 | 90.5 | 2.1 | 92.6 | 87.3 | 77.5 | 83.7 | 90.7 | 2.1 |
| 4.0 | 90.6 | 2.1 | 92.7 | 87.4 | 77.7 | 83.9 | 90.9 | 2.1 |
| 4.5 | 90.6 | 2.1 | 92.7 | 87.5 | 77.7 | 84.0 | 91.0 | 2.1 |
| 5.0 | 90.6 | 2.1 | 92.7 | 87.4 | 77.8 | 84.0 | 91.0 | 2.1 |
| 5.5 | 90.5 | 2.0 | 92.5 | 87.3 | 77.6 | 83.8 | 90.8 | 2.1 |
| 6.0 | 90.5 | 2.0 | 92.5 | 87.2 | 77.6 | 83.8 | 90.8 | 2.1 |
| 6.5 | 90.6 | 2.0 | 92.6 | 87.4 | 77.7 | 83.9 | 90.9 | 2.4 |
| 7.0 | 90.7 | 2.0 | 92.7 | 87.5 | 77.7 | 84.0 | 91.0 | 2.4 |
| 7.5 | 90.8 | 2.1 | 92.9 | 87.6 | 77.9 | 84.1 | 91.1 | 2.4 |
| 8.0 | 90.7 | 2.0 | 92.7 | 87.4 | 77.8 | 83.9 | 90.9 | 2.4 |
| 8.5 | 90.7 | 2.0 | 92.7 | 87.3 | 77.8 | 83.9 | 90.9 | 2.4 |
| 9.0 | 90.7 | 1.9 | 92.6 | 87.5 | 77.8 | 84.0 | 91.0 | 2.1 |
| 9.5 | 90.9 | 2.0 | 92.9 | 87.6 | 77.9 | 84.1 | 91.1 | 2.1 |
| 10.0 | 91.0 | 2.1 | 93.1 | 87.7 | 78.0 | 84.2 | 91.2 | 2.4 |
| 10.5 | 91.0 | 2.1 | 93.1 | 87.7 | 78.1 | 84.3 | 91.3 | 2.4 |

MAXIMUM VALUES IN BANDS, PNLC = 91.1

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 67.5 | 71.2 | 75.0 | 77.7 | 78.6 | 80.3 | 81.7 | 80.1 | 74.7 | 65.6 |
| 69.6 | 67.7 | 66.2 | 66.2 | 65.6 | 62.4 | 58.5 | 51.8 | 41.4 | 45.3 |
| 48.4 | 42.9 | 34.1 | 37.7 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 67.1 | 71.1 | 74.5 | 77.7 | 78.6 | 80.3 | 81.6 | 80.0 | 74.6 | 65.5 |
| 69.2 | 67.3 | 65.9 | 65.6 | 65.5 | 62.4 | 58.5 | 51.8 | 41.4 | 45.3 |
| 48.2 | 42.9 | 34.1 | 37.7 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 2.0 | 2.1 | | | | | | |
| PNL | 10.0 | 91.0 | 10.5 | 100.2 | 10.5 | 100.2 | 89.5 | 86.4 |
| PNLT | 10.0 | 93.1 | 10.5 | 102.2 | 10.5 | 102.2 | 91.6 | 88.5 |
| A-LEV | 10.5 | 78.1 | 11.0 | 87.5 | 11.0 | 87.5 | 76.8 | 73.7 |
| N-LEV | 10.5 | 91.3 | 11.0 | 100.7 | 11.0 | 100.7 | 90.0 | 86.9 |

EPNL = 92.2

400 HA. COMP., RUN #9, 30 DB PEAK ABOVE RMS NOISE

| T | PNL | P.T. | PNLT | OA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 57.8 | 6.7 | 64.5 | 52.8 | 50.4 | 53.8 | 60.8 | 1.1 |
| 0.5 | 82.5 | 1.8 | 84.3 | 76.7 | 72.2 | 76.2 | 83.2 | 2.1 |
| 1.0 | 86.1 | 1.8 | 87.9 | 80.5 | 75.7 | 79.8 | 86.8 | 2.1 |
| 1.5 | 87.8 | 1.8 | 89.6 | 82.2 | 77.3 | 81.4 | 88.4 | 2.1 |
| 2.0 | 88.6 | 1.9 | 90.5 | 83.1 | 78.1 | 82.3 | 89.3 | 2.4 |
| 2.5 | 89.1 | 1.9 | 91.0 | 83.6 | 78.6 | 82.8 | 89.8 | 2.1 |
| 3.0 | 89.2 | 1.9 | 91.1 | 83.7 | 78.6 | 82.8 | 89.8 | 2.1 |
| 3.5 | 89.4 | 1.9 | 91.3 | 84.0 | 78.9 | 83.1 | 90.1 | 2.4 |
| 4.0 | 89.6 | 1.9 | 91.5 | 84.2 | 79.1 | 83.3 | 90.3 | 2.4 |
| 4.5 | 89.7 | 1.9 | 91.6 | 84.3 | 79.3 | 83.5 | 90.5 | 2.4 |
| 5.0 | 89.8 | 1.9 | 91.7 | 84.4 | 79.4 | 83.6 | 90.6 | 2.4 |
| 5.5 | 89.8 | 1.8 | 91.6 | 84.4 | 79.3 | 83.6 | 90.6 | 2.4 |
| 6.0 | 89.7 | 1.8 | 91.5 | 84.2 | 79.2 | 83.4 | 90.4 | 2.1 |
| 6.5 | 89.7 | 1.9 | 91.6 | 84.3 | 79.2 | 83.5 | 90.5 | 2.1 |
| 7.0 | 89.8 | 1.9 | 91.7 | 84.4 | 79.3 | 83.5 | 90.5 | 2.1 |
| 7.5 | 89.9 | 1.9 | 91.8 | 84.5 | 79.4 | 83.7 | 90.7 | 2.1 |
| 8.0 | 89.9 | 1.8 | 91.7 | 84.5 | 79.4 | 83.7 | 90.7 | 2.1 |
| 8.5 | 89.8 | 1.9 | 91.7 | 84.3 | 79.2 | 83.5 | 90.5 | 2.1 |
| 9.0 | 89.8 | 1.8 | 91.6 | 84.4 | 79.3 | 83.5 | 90.5 | 2.1 |
| 9.5 | 89.8 | 1.8 | 91.6 | 84.4 | 79.4 | 83.6 | 90.6 | 2.1 |
| 10.0 | 89.9 | 1.8 | 91.7 | 84.5 | 79.4 | 83.6 | 90.6 | 2.4 |
| 10.5 | 89.9 | 1.9 | 91.8 | 84.5 | 79.4 | 83.7 | 90.7 | 2.1 |

MAXIMUM VALUES IN BANDS, PNLC = 90.1

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 58.7 | 62.4 | 66.3 | 68.3 | 68.8 | 71.5 | 74.3 | 76.2 | 77.0 | 77.5 |
| 76.3 | 72.7 | 67.0 | 66.9 | 66.8 | 63.2 | 59.4 | 53.0 | 43.5 | 46.4 |
| 49.1 | 43.7 | 36.0 | 38.9 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 57.6 | 62.0 | 66.2 | 67.8 | 68.8 | 71.5 | 74.3 | 76.2 | 77.0 | 77.4 |
| 76.0 | 72.6 | 66.6 | 66.7 | 66.6 | 63.1 | 59.4 | 52.7 | 43.2 | 46.3 |
| 49.1 | 43.5 | 35.7 | 38.9 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 0.0 | 6.7 | | | | | | |
| PNL | 7.5 | 89.9 | 10.5 | 99.2 | 10.5 | 99.2 | 88.4 | 85.3 |
| PNLT | 7.5 | 91.8 | 10.5 | 101.1 | 10.5 | 101.1 | 90.3 | 87.2 |
| A-LEV | 5.0 | 79.4 | 10.5 | 88.8 | 10.5 | 88.8 | 77.9 | 74.8 |
| N-LEV | 7.5 | 90.7 | 10.5 | 100.0 | 10.5 | 100.0 | 89.2 | 86.1 |

EPNL = 91.1

800 HZ. COMP., RUN #10, 30 DB PEAK ABOVE RMS NOISE

| T | PNL | P.T. | PNLT | CA | A-LEV | D-LEV | N-LEV | BAND # |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 51.3 | 1.2 | 52.5 | 43.6 | 40.1 | 46.9 | 53.9 | 0.2 |
| 0.5 | 80.7 | 1.6 | 82.3 | 74.2 | 72.4 | 75.0 | 82.0 | 2.1 |
| 1.0 | 84.4 | 2.0 | 86.4 | 77.9 | 76.1 | 78.7 | 85.7 | 2.4 |
| 1.5 | 85.9 | 2.0 | 87.9 | 79.5 | 77.7 | 80.2 | 87.2 | 2.4 |
| 2.0 | 86.5 | 2.0 | 88.5 | 80.1 | 78.2 | 80.8 | 87.8 | 2.4 |
| 2.5 | 87.1 | 2.0 | 89.1 | 80.6 | 78.7 | 81.3 | 88.3 | 2.4 |
| 3.0 | 87.5 | 2.1 | 89.6 | 81.1 | 79.1 | 81.7 | 88.7 | 2.4 |
| 3.5 | 87.7 | 2.0 | 89.7 | 81.3 | 79.4 | 81.9 | 88.9 | 2.4 |
| 4.0 | 87.9 | 2.0 | 89.9 | 81.5 | 79.6 | 82.1 | 89.1 | 2.4 |
| 4.5 | 87.8 | 2.0 | 89.8 | 81.3 | 79.3 | 81.9 | 88.9 | 2.4 |
| 5.0 | 87.8 | 2.0 | 89.8 | 81.4 | 79.5 | 82.0 | 89.0 | 2.4 |
| 5.5 | 87.8 | 2.0 | 89.8 | 81.4 | 79.5 | 82.0 | 89.0 | 2.4 |
| 6.0 | 88.0 | 2.0 | 90.0 | 81.6 | 79.6 | 82.2 | 89.2 | 2.4 |
| 6.5 | 88.1 | 1.9 | 90.0 | 81.7 | 79.8 | 82.3 | 89.3 | 2.4 |
| 7.0 | 88.0 | 1.9 | 89.9 | 81.7 | 79.7 | 82.2 | 89.2 | 2.4 |
| 7.5 | 87.9 | 1.9 | 89.8 | 81.5 | 79.5 | 82.1 | 89.1 | 2.4 |
| 8.0 | 87.9 | 2.0 | 89.9 | 81.6 | 79.6 | 82.2 | 89.2 | 2.4 |
| 8.5 | 88.0 | 2.0 | 90.0 | 81.7 | 79.7 | 82.2 | 89.2 | 2.4 |
| 9.0 | 88.1 | 2.0 | 90.1 | 81.7 | 79.7 | 82.3 | 89.3 | 2.4 |
| 9.5 | 88.1 | 1.9 | 90.0 | 81.8 | 79.8 | 82.3 | 89.3 | 2.4 |
| 10.0 | 87.9 | 1.9 | 89.8 | 81.5 | 79.6 | 82.1 | 89.1 | 2.4 |
| 10.5 | 87.9 | 1.9 | 89.8 | 81.5 | 79.6 | 82.1 | 89.1 | 2.4 |
| 11.0 | 87.8 | 1.8 | 89.6 | 81.4 | 79.4 | 82.0 | 89.0 | 2.4 |

MAXIMUM VALUES IN BANDS, PNLC = 88.2

| 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
|---|---|---|---|---|---|---|---|---|---|
| 58.9 | 60.8 | 63.7 | 65.5 | 62.9 | 62.6 | 64.2 | 66.8 | 68.9 | 71.1 |
| 74.0 | 74.3 | 74.2 | 72.8 | 70.4 | 64.6 | 61.4 | 55.6 | 50.5 | 50.6 |
| 51.2 | 46.5 | 37.5 | 40.0 | | | | | | |

SPECTRUM FOR MAX PNLT

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 58.0 | 59.3 | 63.6 | 64.5 | 61.8 | 61.9 | 64.2 | 66.8 | 68.8 | 71.1 |
| 73.9 | 74.2 | 74.2 | 72.6 | 70.2 | 64.5 | 61.0 | 55.2 | 50.3 | 50.5 |
| 51.1 | 46.2 | 37.1 | 39.8 | | | | | | |

| | TIME | MAX. | D10 | I-10 | D20 | I-20 | D/15+M | D/30+M |
|---|---|---|---|---|---|---|---|---|
| P.T. | 3.0 | 2.1 | | | | | | |
| PNL | 6.5 | 88.1 | 11.0 | 97.6 | 11.0 | 97.6 | 86.8 | 83.7 |
| PNLT | 9.0 | 90.1 | 11.0 | 99.6 | 11.0 | 99.6 | 88.8 | 85.7 |
| A-LEV | 6.5 | 79.8 | 11.0 | 89.3 | 11.0 | 89.3 | 78.5 | 75.4 |
| N-LEV | 6.5 | 89.3 | 11.0 | 98.9 | 11.0 | 98.9 | 88.0 | 84.9 |

EPNL = 89.6